

**FIRE ORDINANCE REQUIREMENTS**

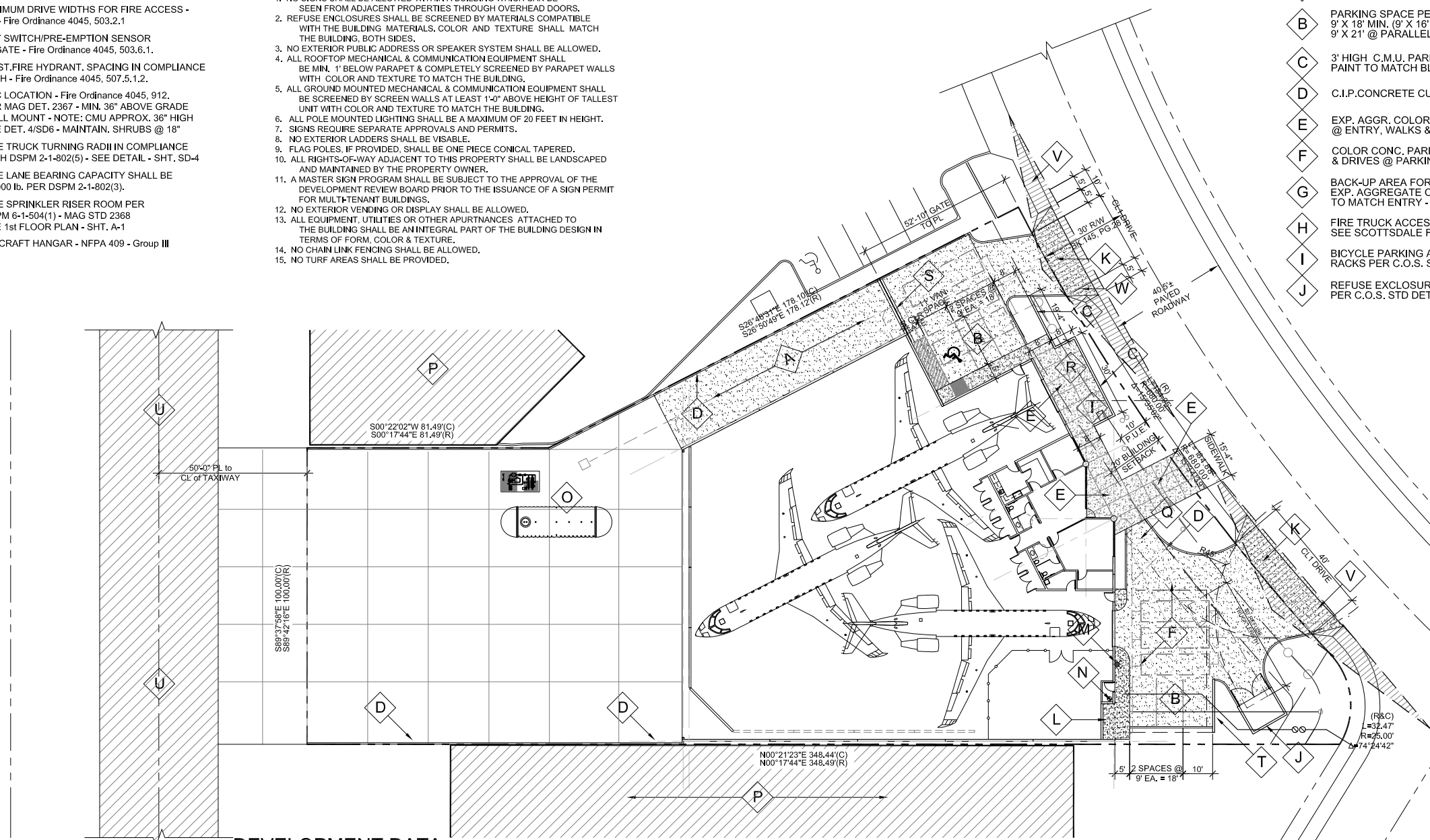
- 1 MINIMUM DRIVE WIDTHS FOR FIRE ACCESS - 24' - Fire Ordinance 4045, 503.2.1
- 2 KEY SWITCH/PRE-EMPTION SENSOR @ GATE - Fire Ordinance 4045, 503.6.1.
- 3 EXIST. FIRE HYDRANT. SPACING IN COMPLIANCE WITH - Fire Ordinance 4045, 507.5.1.2.
- 4 FDC LOCATION - Fire Ordinance 4045, 912. PER MAG DET. 2367 - MIN. 36" ABOVE GRADE WALL MOUNT - NOTE: CMU APPROX. 36" HIGH SEE DET. 4/SD6 - MAINTAIN. SHRUBS @ 18"
- 5 FIRE TRUCK TURNING RADIUS IN COMPLIANCE WITH DSPM 2-1-802(5) - SEE DETAIL - SHT. SD-4
- 6 FIRE LANE BEARING CAPACITY SHALL BE 83,000 lb. PER DSPM 2-1-802(3).
- 7 FIRE SPRINKLER RISER ROOM PER DSPM 6-1-504(1) - MAG STD 2368 SEE 1st FLOOR PLAN - SHT. A-1
- 8 AIRCRAFT HANGAR - NFPA 409 - Group III

**PLANNING NOTES**

1. NO SIGNS SHALL BE ALLOWED WITHIN A BUILDING WHICH CAN BE SEEN FROM ADJACENT PROPERTIES THROUGH OVERHEAD DOORS.
2. REFUSE ENCLOSURES SHALL BE SCREENED BY MATERIALS COMPATIBLE WITH THE BUILDING MATERIALS. COLOR AND TEXTURE SHALL MATCH THE BUILDING, BOTH SIDES.
3. NO EXTERIOR PUBLIC ADDRESS OR SPEAKER SYSTEM SHALL BE ALLOWED.
4. ALL ROOFTOP MECHANICAL & COMMUNICATION EQUIPMENT SHALL BE MIN. 1' BELOW PARAPET & COMPLETELY SCREENED BY PARAPET WALLS WITH COLOR AND TEXTURE TO MATCH THE BUILDING.
5. ALL GROUND MOUNTED MECHANICAL & COMMUNICATION EQUIPMENT SHALL BE SCREENED BY SCREEN WALLS AT LEAST 1'-0" ABOVE HEIGHT OF TALLEST UNIT WITH COLOR AND TEXTURE TO MATCH THE BUILDING.
6. ALL POLE MOUNTED LIGHTING SHALL BE A MAXIMUM OF 20 FEET IN HEIGHT.
7. SIGNS REQUIRE SEPARATE APPROVALS AND PERMITS.
8. NO EXTERIOR LADDERS SHALL BE VISABLE.
9. FLAG POLES, IF PROVIDED, SHALL BE ONE PIECE CONICAL TAPERED.
10. ALL RIGHTS-OF-WAY ADJACENT TO THIS PROPERTY SHALL BE LANDSCAPED AND MAINTAINED BY THE PROPERTY OWNER.
11. A MASTER SIGN PROGRAM SHALL BE SUBJECT TO THE APPROVAL OF THE DEVELOPMENT REVIEW BOARD PRIOR TO THE ISSUANCE OF A SIGN PERMIT FOR MULTI-TENANT BUILDINGS.
12. NO EXTERIOR VENDING OR DISPLAY SHALL BE ALLOWED.
13. ALL EQUIPMENT, UTILITIES OR OTHER APURTANCES ATTACHED TO THE BUILDING SHALL BE AN INTEGRAL PART OF THE BUILDING DESIGN IN TERMS OF FORM, COLOR & TEXTURE.
14. NO CHAIN LINK FENCING SHALL BE ALLOWED.
15. NO TURF AREAS SHALL BE PROVIDED.

**SITE PLAN KEY NOTES**

- |   |   |
|---|---|
| <b>A</b> ASPHALT CONC. PAVING PER CIVIL DWGS. & SOILS REPORT  | <b>K</b> TYPE CL-1 DRIVE per COS STD. SEE CIVIL DRAWINGS                                    |
| <b>B</b> PARKING SPACE PER C.O.S. STD. 9' X 18' MIN. (9' X 16' W/ 24" O.H.) 9' X 21' @ PARALLEL PARK. SPACE | <b>L</b> ELECTR. S.E.S.   |
| <b>C</b> 3' HIGH C.M.U. PARK. SCREEN WALL PAINT TO MATCH BLDG. COLOR  | <b>M</b> F.D.C. CONNECTION  |
| <b>D</b> C.I.P. CONCRETE CURB   | <b>N</b> A.F.S. RISER & BACKFLOW  |
| <b>E</b> EXP. AGGR. COLOR CONC. @ ENTRY, WALKS & PATIO  | <b>O</b> 20,000 GAL. FUEL FARM - UNDER SEPARATE APPROVAL & PERMIT                           |
| <b>F</b> COLOR CONC. PARKING SPACES & DRIVES @ PARKING LOT  | <b>P</b> EXIST. BUILDING @ ADJACENT LOT   |
| <b>G</b> BACK-UP AREA FOR REFUSE ACCESS EXP. AGGREGATE COLORED CONC. TO MATCH ENTRY - w/ 'NO PARK. SIGN'    | <b>Q</b> BACK-UP AREA FOR REFUSE ACCESS PROV. 'NO PARKING' SIGN & STRIPING                  |
| <b>H</b> FIRE TRUCK ACCESS CLEARANCES SEE SCOTTSDALE FIRE TRUCK DET.  | <b>R</b> OUTSIDE STAFF PATIO EXP. AGGR. COLOR CONC.   |
| <b>I</b> BICYCLE PARKING AREA W/ BIKE RACKS PER C.O.S. STD DET. 2285  | <b>S</b> 36" HIGH ROLLING STL. SECURITY GATE  |
| <b>J</b> REFUSE ENCLOSURE W/ GATES PER C.O.S. STD DET. 2146-1.  | <b>T</b> 6' HIGH C.M.U. SCREEN WALL (TO SCREEN S.E.S. & PARKING) PAINT TO MATCH BLDG. COLOR |
|   | <b>U</b> EXIST. 40' TAXIWAY & 100' ESMT.  |
|   | <b>V</b> SAFERY TRIANGLE  |



**APPROVED**

**STIPULATION SET**  
**RETAIN FOR RECORDS**

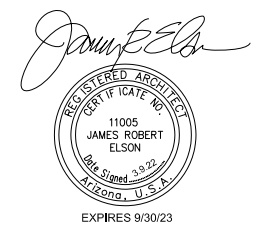
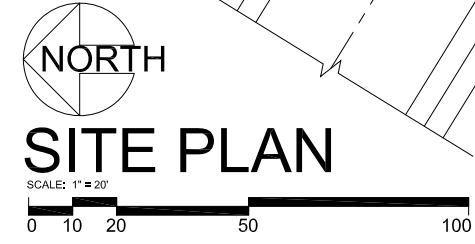
**6/23/22**  
**DATE**

**KP**  
**APPROVED BY**

Stipulation  
SET.  
Planning  
DRB docs.

**DEVELOPMENT DATA**

<b>LOT AREAS</b>	<b>BUILDING AREA:</b>	<b>OPEN SPACE REQUIRED:</b>
LOT AREA - 40,960 SF (.94 AC)	HANGAR	<b>GENERAL</b>
<b>F.A.R. ALLOWED:</b>	GROSS AREA 13,638 sf	BASE - 40,960 X 10% = 4,096 SF
40,960 X 0.8 = 32,768 SF	UNUSABLE (HGR. DOOR OPER.) 404 sf	12' - (40-12) X 0.3% = 8.4% = TOTAL 3,441 SF
<b>F.A.R. PROVIDED:</b>	USABLE / AIRCRAFT STOR. 13,234 sf	GEN. O.S. REQ'D. 7,537 SF
16,910 SF	(FOR STAGING CALCS.)	LESS STAGING 13,286 X 50% = 6,643
<b>ZONING:</b>	LOBBY/OFFICE 1,100 sf	O.S. CREDIT (50% OF REQ'D.) 3,768 SF
I-1	STORAGE 1,532 sf	GENERAL OPEN SPACE REQ'D. 3,768 SF
<b>BUILDING HEIGHT:</b>	TOTAL 16,270 sf	GEN. OPEN SPACE PROV: 3,859 SF
PERIM. WALL HGT. 36'-0"	STAGING 13,286 sf	<b>PARKING</b>
MAX. HGT.-INCL. MECH SCREEN 40'-0"	<b>PARKING REQUIRED:</b>	15% X 2,506 SF = 376 SF
<b>OCCUPANCY GROUP:</b>	HANGAR NONE REQ'D.	<b>PARK. OPEN SPACE PROV:</b>
OFFICE B	LOBBY/OFFICE 1,100/300 = 4.0	393 SF
WAREHOUSE S-2	STORAGE 1,532/800 = 2.0	<b>TOTAL OPEN SPACE PROV:</b>
HANGAR H-2	TOTAL 6 SPACES	4,252 SF
<b>CONSTRUCTION TYPE:</b>	<b>PARKING PROVIDED:</b>	
III-B	A.D.A. SPACES REQ'D. 1 SPACE	
AIRCRAFT HANGAR - NFPA 409 - Group III	A.D.A. SPACES PROV. 1 SPACE	
Group III hangars shall have both of the following features:	VAN ACCESS. 1 SPACE	
An aircraft access door height of 28 ft (8.5m) or less	BIKE PARK. REQ'D. 1 SPACE	
A single fire area of 30,000 ft <sup>2</sup> (3716 m <sup>2</sup> ) or less,	BIKE PARK. PRO'D. 1 SPACE	
and in accordance with the maximum single fire areas for each construction type as shown in NFPA 409, Table 4.1.3.		



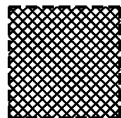
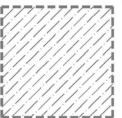
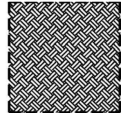

DATE 7.25.21  
REVISED  
C.O.S. DR COMMENTS 11.15.21  
REVISED COS & OWNER 2.22.22  
REVISED 3.9.22  
COS

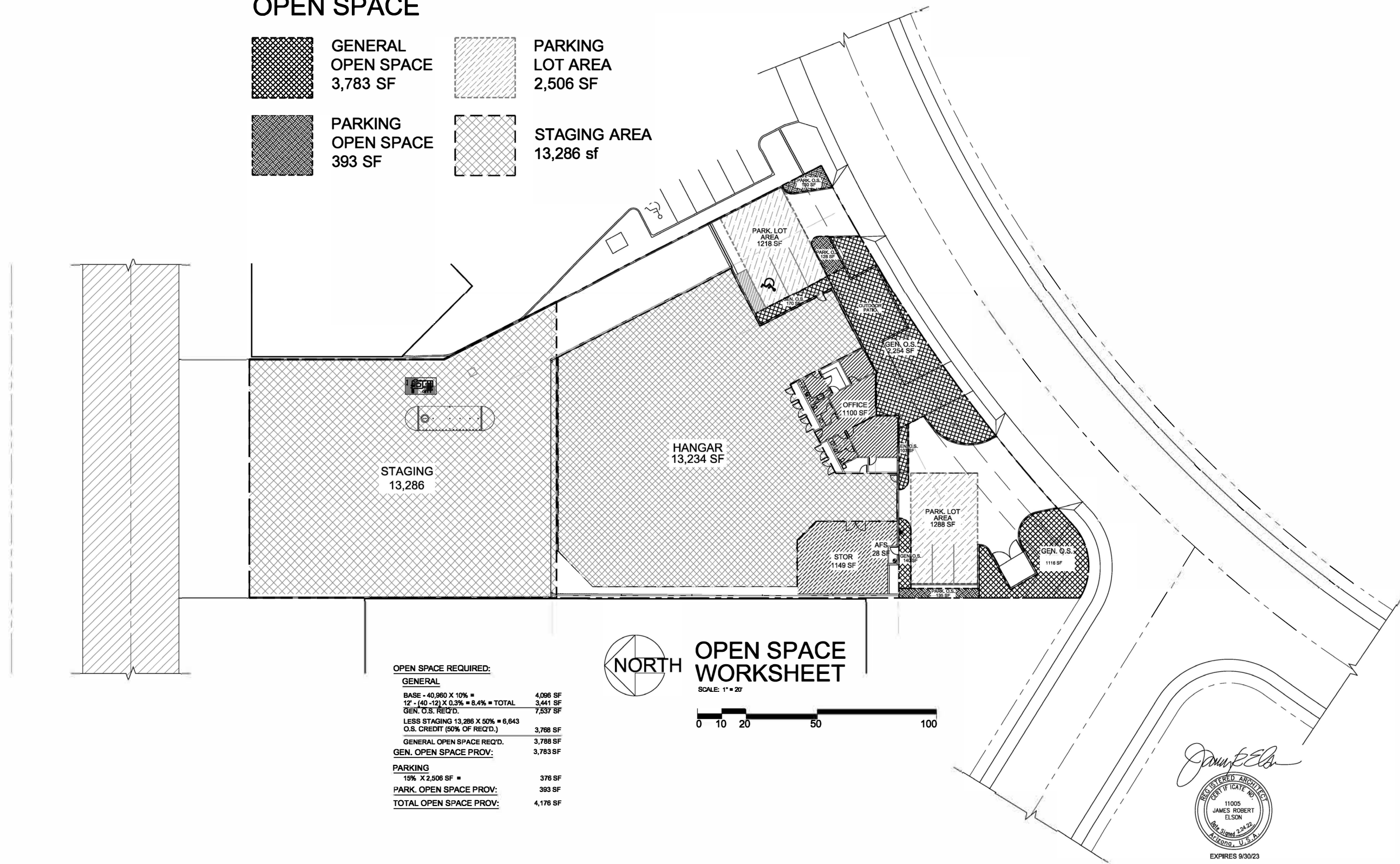
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# LEGEND

## OPEN SPACE

	GENERAL OPEN SPACE 3,783 SF		PARKING LOT AREA 2,506 SF
	PARKING OPEN SPACE 393 SF		STAGING AREA 13,286 sf



**OPEN SPACE REQUIRED:**

**GENERAL**

BASE - 40,980 X 10% = 4,098 SF  
 12' - (40 - 12) X 0.3% = 8.4% = TOTAL 3,441 SF  
 GEN. O.S. REQ'D. 7,537 SF

LESS STAGING 13,286 X 50% = 6,643  
 O.S. CREDIT (50% OF REQ'D.) 3,768 SF  
 GENERAL OPEN SPACE REQ'D. 3,788 SF  
 GEN. OPEN SPACE PROV: 3,783 SF

**PARKING**

15% X 2,506 SF = 376 SF  
 PARK. OPEN SPACE PROV: 393 SF  
 TOTAL OPEN SPACE PROV: 4,176 SF

**OPEN SPACE WORKSHEET**

SCALE: 1" = 20'

*James Elson*

EXPIRES 9/30/23

DATE: 7.25.21  
 REVISED:  
 C.O.S. DR COMMENTS 11.15.21  
 REVISED: 2.22.22  
 COS & OWNER  
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 COS

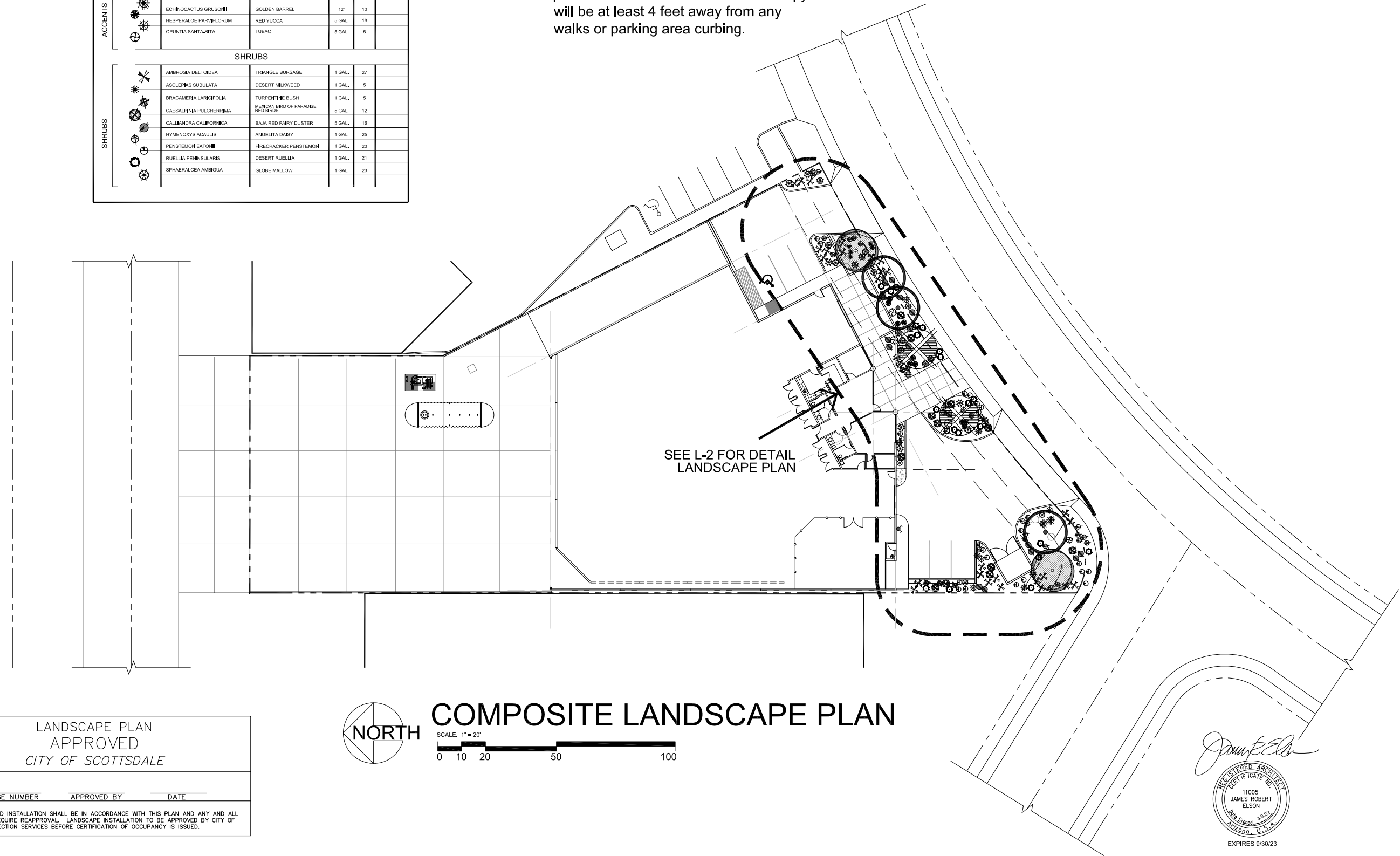
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SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	No.	REMARKS
<b>TREES</b>					
	PROSOPIS ALBA	CHILEAN MESQUITE	36" BOX	1	
	CERCIDIUM FLORIDUM	BLUE PALO VERDE	36" BOX	3	
	CERCIDIUM PRAECOX	PALO BREA	36" BOX	2	
<b>ACCENTS</b>					
	DASYSPHON WHEELERI	DESERT SPOON	5 GAL.	2	
	ECHINOCACTUS GRISONII	GOLDEN BARREL	12"	10	
	HESPERALOE PARVIFLORUM	RED YUCCA	5 GAL.	18	
	OPUNTIA SANTA-RITA	TUBAC	5 GAL.	5	
<b>SHRUBS</b>					
	AMBROSIA DELTOIDEA	TRIANGLE BURSEAGE	1 GAL.	27	
	ASCLEPIAS SUBULATA	DESERT MILKWEED	1 GAL.	5	
	BRACAMERIA LANCEIFOLIA	TURPENTINE BUSH	1 GAL.	5	
	CAESALPINIA PULCHERRIMA	MEXICAN BIRD OF PARADISE	5 GAL.	12	
	CALLIANDRA CALIFORNICA	BAJA RED FAIRY DUSTER	5 GAL.	16	
	HYMENOXYS ACALUIS	ANGELITA DAISSY	1 GAL.	25	
	PENSTEMON EATONII	FIRECRACKER PENSTEMON	1 GAL.	20	
	RUELLIA PENINSULARIS	DESERT RUELLIA	1 GAL.	21	
	SPHAERALCEA AMBIGUA	GLOBE MALLOW	1 GAL.	23	

Thorny trees, shrubs and cacti shall be planted so that their mature size/canopy will be at least 4 feet away from any walks or parking area curbing.



LANDSCAPE PLAN  
APPROVED  
CITY OF SCOTTSDALE

CASE NUMBER	APPROVED BY	DATE

CONSTRUCTION AND INSTALLATION SHALL BE IN ACCORDANCE WITH THIS PLAN AND ANY AND ALL DEVIATION WILL REQUIRE REAPPROVAL. LANDSCAPE INSTALLATION TO BE APPROVED BY CITY OF SCOTTSDALE INSPECTION SERVICES BEFORE CERTIFICATION OF OCCUPANCY IS ISSUED.



## COMPOSITE LANDSCAPE PLAN

SCALE: 1" = 20'  
0 10 20 50 100

*James Elson*  
  
 EXPIRES 9/30/23

AIRCRAFT HANGAR for  
 SET JET, LLC  
 15208 N. 75th STREET

DATE 7.25.21  
 REVISED 11.15.21  
 C.O.S. DR COMMENTS  
 REVISED 2.22.22  
 COS & OWNER  
 REVISED 3.9.22  
 COS

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LANDSCAPE AREAS SUMMARY

LANDSCAPE (GEN. O.S.)	2,045SF
HARDSCAPE	2,167 SF
PARKING O.S.	1,283 SF
PARKING O.S. (INTERIOR)	806 SF
R.O.W. LANDSCAPE	556 SF

SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	No.	REMARKS
<b>TREES</b>					
	PROSOPSIS ALBA	CHILEAN MESQUITE	36" BOX	1	
	CERCIDIUM FLORIDUM	BLUE PALO VERDE	36" BOX	3	
	CERCIDIUM PRAECOX	PALO BREA	36" BOX	2	
<b>ACCENTS</b>					
	DASYIRION WHEELERI	DESERT SPOON	5 GAL.	2	
	ECHINOCACTUS GRUSONII	GOLDEN BARREL	12"	10	
	HESPERALOE PARVIFLORUM	RED YUCCA	5 GAL.	18	
	OPUNTIA SANTA-RITA	TUBAC	5 GAL.	5	
<b>SHRUBS</b>					
	AMBROSIA DELTOIDEA	TRIANGLE BURSAE	1 GAL.	27	
	ASCLEPIAS SUBULATA	DESERT MILKWEED	1 GAL.	5	
	BRACAMERA LARICIFOLIA	TURPENTINE BUSH	1 GAL.	5	
	CAESALPINIA PULCHERRIMA	MEXICAN BIRD OF PARADISE RED BIRDS	5 GAL.	12	
	CALLIANDRA CALIFORNICA	BAJA RED FAIRY DUSTER	5 GAL.	16	
	HYMENOXYIS ACAULIS	ANGELITA DAISY	1 GAL.	25	
	PENSTEMON EATONII	FIRECRACKER PENSTEMON	1 GAL.	20	
	RUELLIA PENINSULARIS	DESERT RUELLIA	1 GAL.	21	
	SPHAERALCEA AMBIGUA	GLOBE MALLOW	1 GAL.	23	

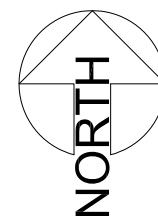
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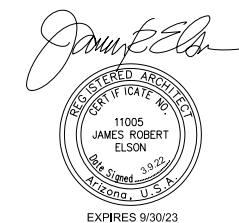
LANDSCAPE PLAN  
 APPROVED  
 CITY OF SCOTTSDALE

CASE NUMBER \_\_\_\_\_ APPROVED BY \_\_\_\_\_ DATE \_\_\_\_\_

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**LANDSCAPE PLAN**  
 SCALE: 1" = 10'

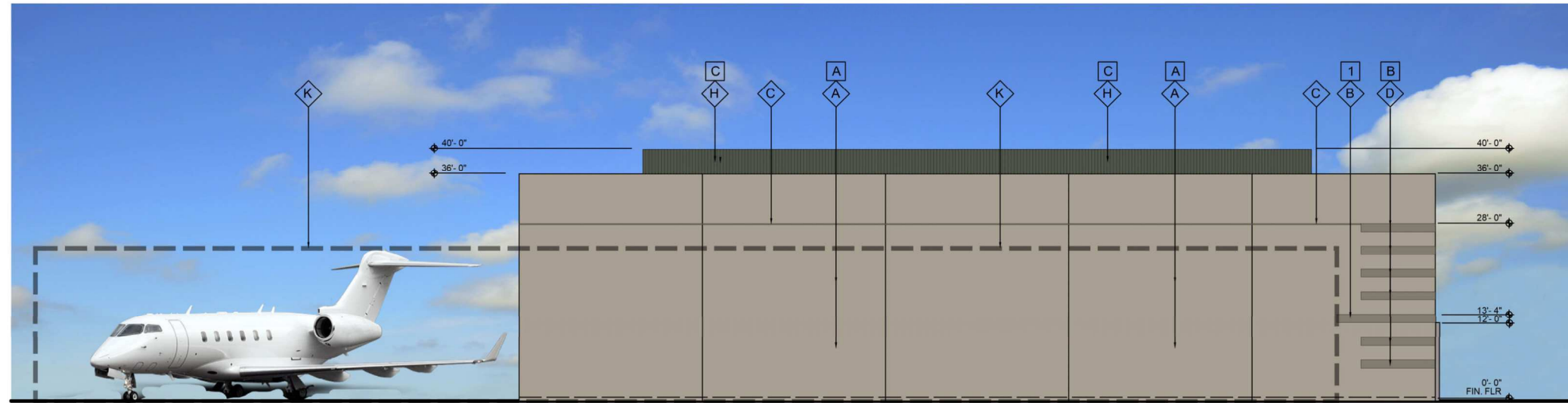


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 COS

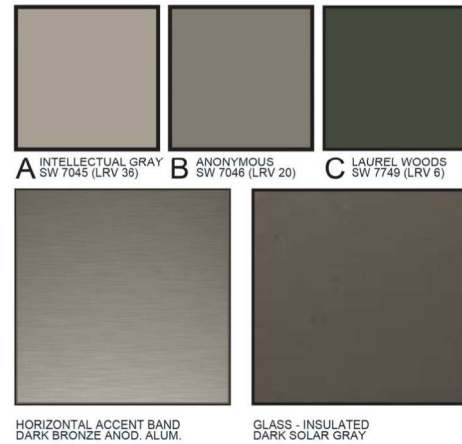
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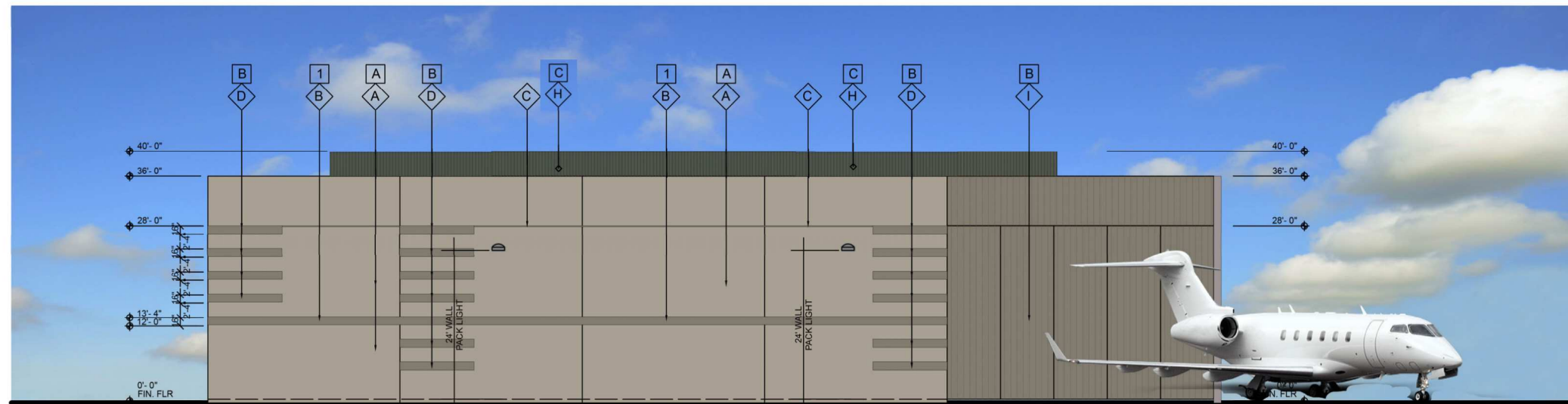


WEST ELEVATION



COLOR KEY NOTES	
<b>A</b>	INTELLECTUAL GRAY SW 7045 (LRV 36)
<b>B</b>	ANONYMOUS SW 7046 (LRV 20)
<b>C</b>	LAUREL WOODS SW 7749 (LRV 6)
<b>1</b>	METAL ACCENT BAND DK. ANOD. ALUMINUM SHEET METAL
<b>2</b>	INSUL. DARK SOLAR GREY GLASS
<b>3</b>	DARK BRONZE ANODIZED ALUMINUM STOREFRONT

BUILDING ELEVATION KEY NOTES	
<b>A</b>	CONCRETE TILT PANEL SEE COLOR SCHEDULE
<b>B</b>	1/2" X 16" REVEAL ACCENT BAND w/ ANOD. ALUMINUM PANEL
<b>C</b>	1/2" X 2" REVEAL (CONT.)
<b>D</b>	1/2" X 16" X 8' ACCENT INSERT SEE COLOR SCHEDULE
<b>E</b>	ANOC. ALUM. SECT. DOOR - w/ GLASS PANELS
<b>F</b>	C.I.P. CONCRETE COLUMN SEE COLOR SCHEDULE
<b>G</b>	HOLLOW METAL DOOR - SEE COLOR SCHEDULE
<b>H</b>	MECH. EQUIP. SCREEN W/ 'B' DECK SEE COLOR SCHEDULE
<b>I</b>	HANGAR DOOR - SEE COLOR SCHEDULE
<b>J</b>	1" INSUL. DK. SOLAR GREY GLASS IN ANOD. BUTT GLAZED OFFSET GLAZING SYSTEM
<b>K</b>	OUTLINE OF EXISTING BUILDING ADJACENT TO TILT WALL ON ADJ. LOT



EAST ELEVATION

DATE: 7.10.21  
REVISED:  
C.O.S. DR COMMENTS  
11.15.21

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elison  
architect



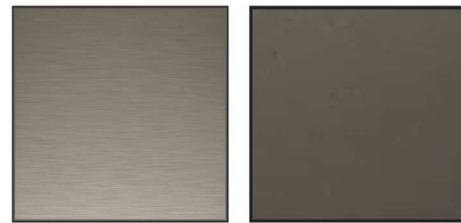
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X BUILDING ELEVATION KEY NOTES			
A	CONCRETE TILT PANEL SEE COLOR SCHEDULE	G	HOLLOW METAL DOOR - SEE COLOR SCHEDULE
B	1/2" X 16" REVEAL ACCENT BAND w/ ANOD. ALUMINUM PANEL	H	MECH. EQUIP. SCREEN W/ 'B' DECK SEE COLOR SCHEDULE
C	1/2" X 2" REVEAL (CONT.)	I	HANGAR DOOR - SEE COLOR SCHEDULE
D	1/2" X 16" X 8" ACCENT INSERT REF. COLOR SCHEDULE	J	1" INSUL. DK. SOLAR GREY GLASS IN ANOD. BUTT GLAZED OFFSET GLAZING SYSTEM
E	ANOC. ALUM. SECT. DOOR - w/ GLASS PANELS	K	OUTLINE OF EXISTING BUILDING ADJACENT TO TILT WALL ON ADJ. LOT
F	C.I.P. CONCRETE COLUMN SEE COLOR SCHEDULE		



A INTELLECTUAL GRAY SW 7045 (LRV 26) B ANONYMOUS SW 7046 (LRV 20) C LAUREL WOODS SW 7749 (LRV 6)



HORIZONTAL ACCENT BAND DARK BRONZE ANOD. ALUM. GLASS - INSULATED DARK SOLAR GRAY

COLOR KEY NOTES			
A	INTELLECTUAL GRAY SW 7045 (LRV 36)	1	METAL ACCENT BAND DK. ANOD. ALUMINUM SHEET METAL
B	ANONYMOUS SW 7046 (LRV 20)	2	INSUL. DARK SOLAR GREY GLASS
C	LAUREL WOODS SW 7749 (LRV 6)	3	DARK BRONZE ANODIZED ALUMINUM STOREFRONT



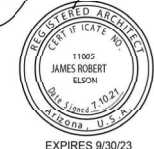
NORTH ELEVATION



SOUTH ELEVATION

DATE: 7.10.21  
REVISED:

*James Elson*



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set jet ▶

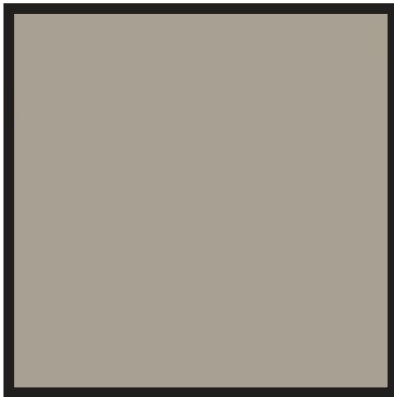
# Materials Sample Board

james  
elso<sup>n</sup>

elso<sup>n</sup>  
architect

## Set Jet

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602.903.5311 t.  
480.515.9342 f.



**A** INTELLECTUAL GRAY  
SW 7045 (LRV 36)



**B** ANONYMOUS  
SW 7046 (LRV 20)



**C** LAUREL WOODS  
SW 7749 (LRV 6)


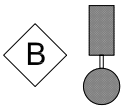
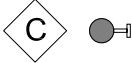



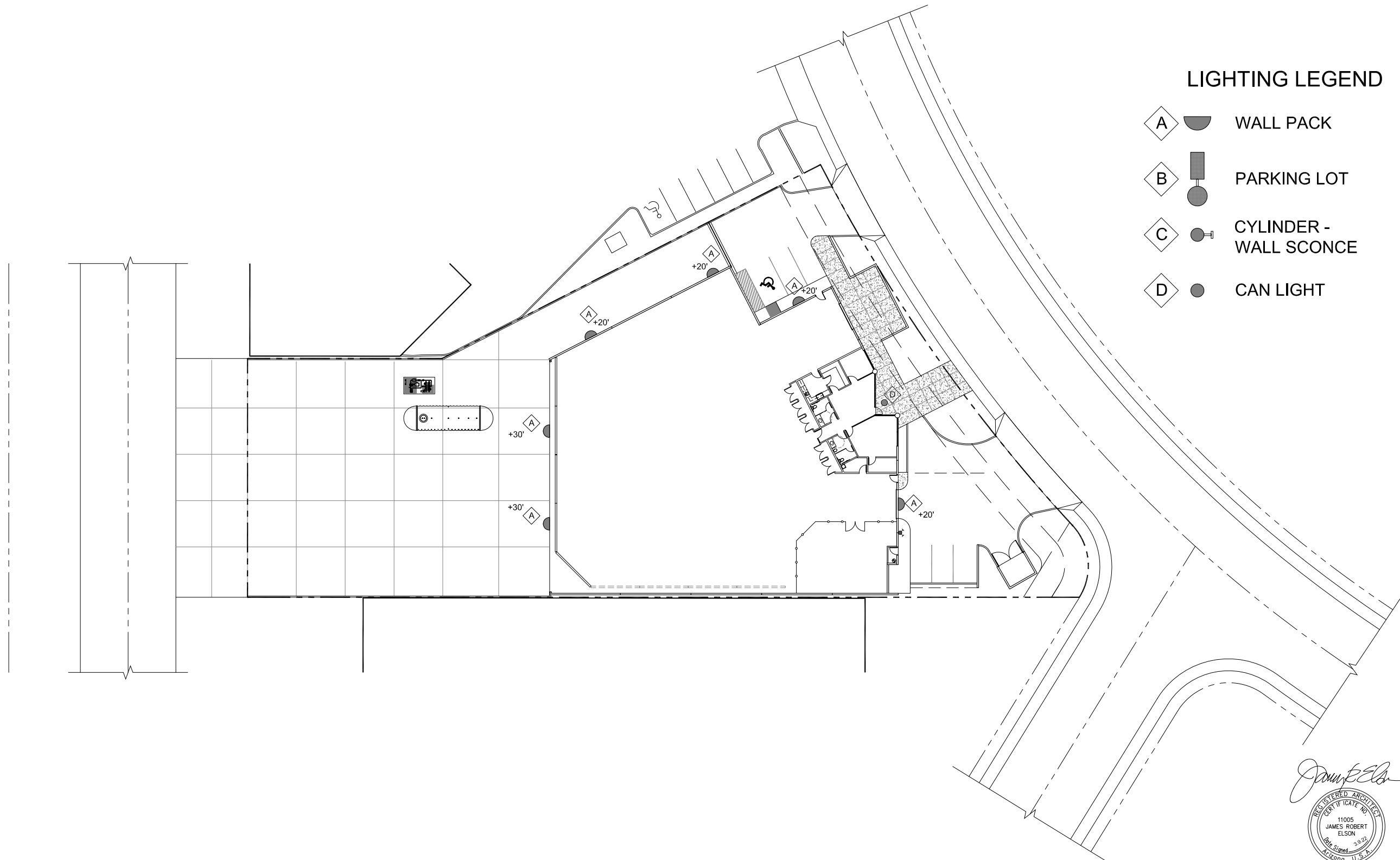
HORIZONTAL ACCENT BAND  
DARK BRONZE ANOD. ALUM.



GLASS - INSULATED  
DARK SOLAR GRAY

LIGHTING LEGEND

-  WALL PACK
-  PARKING LOT
-  CYLINDER - WALL SCONCE
-  CAN LIGHT



*James Robert Elson*  
 REGISTERED ARCHITECT  
 CERTIFICATE NO.  
 11005  
 JAMES ROBERT  
 ELSON  
 Date Signed 3/22  
 ARIZONA, U.S.A.  
 EXPIRES 9/30/23

**SITE LIGHTING PLAN**  
 SCALE: 1" = 20'  
 0 10 20 50 100

DATE ■ 7.25.21  
 REVISED ■  
 C.O.S. DR COMMENTS 11.15.21  
 REVISED ■ 2.22.22  
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 jameselsonarchitect@gmail.com





**NV-1**

AREA LIGHTING

**FORM AND FUNCTION**

- Sleek, low profile housing
- Spec grade performance
- Engineered for optimum thermal management
- Low depreciation rate
- Reduces energy consumption and costs up to 65%
- Exceeds IES foot candle levels utilizing the least number of poles and fixtures per project
- Optical system designed for:
  - Parking Lots
  - Auto Dealerships
  - General Area Lighting

**CONSTRUCTION**

- Die Cast Aluminum
- External cooling fins, Finite Element Analysis (FEA) designed
- Corrosion resistant external hardware
- One-piece silicone gasket ensures IP-65 seal for electronics compartment
- One-piece Optics Plate™ mounting silicone Micro Optics
- Two-piece silicone Micro Optic system ensures IP-67 level seal around each PCB
- Grade 2 Clear Anodized Optics Plate™ standard

**FINISH**

- 3-5 mils electrostatic powder coat.
- NLS' standard high-quality finishes prevent corrosion protects against and extreme environmental conditions

**WARRANTY**

Five-year limited warranty for drivers and LEDs.



**LISTINGS**

- Certified to UL 1598
- UL 8750
- CSA C22.2 No. 250.0
- DesignLights Consortium® (DLC)
- DesignLights Consortium Premium® (DLCP)
- IP65/ IP67 Rated
- 3G Vibration Rated per ANSI C136.31-2010



**LED WATTAGE CHART**

	16L	32L	48L	64L
350 milliamps	18w	-	-	-
530 milliamps	28w	-	-	-
700 milliamps	36w	71w	104w	136w
1050 milliamps	56w	106w	156w	205w

Project Name:

Type:

Cat #	Light Dist.	No. of LEDs	Milliamps	Kelvin	Volts	Mounting	Color	Options
NV Size 1 (NV-1)	Type 2 (T2)	16 (16L)	350 (35)	3000K (30K)	120-277 (UNV)	Direct Pole Single_D180 3" (DPS3)	Bronze (BRZ)	Bird Deterrent (BD) Marine Grade Finish (MGF) Optic Plate Painted to Match Fixture (OPP) Nema 7-Pin Receptacle (PE7) Photocell + Receptacle (PCR) Receptacle + Shorting Cap (PER) FSP-211 with Motion Sensor (UNV Voltage) (FSP-20) *9'-20" Heights (FSP-40) *21'-40" Heights Surge Protector (10K) Quick Mount Bracket (QMB) Retrofit Mount Bracket (RQMB) Round Pole Adaptor 3"- 4" Pole (RPA4) Round Pole Adaptor 5"- 6" Pole (RPA5) Rotated Optic Left (ROL) Rotated Optic Right (ROR) Automotive House Side Shield (AHS) House Side Shield (HSS) *HSS not applicable with N2 - NEMA 24° Optics *HSS not applicable with N3 - NEMA 30° Optics
		32 (32L)					White (WHT)	
	Type 3 (T3)	48 (48L)	530 (53)	4000K (40K)	347-480 (HV)	D90_T90_T120_QD 7" (DPS7)	Silver (SVR)	
		64 (64L)				Knuckle Mount (KM) Wall Mount (WM) Trunnion Mount (TM) *Standard finish is stainless steel Can be painted to match fixture	Black (BLK)	
	Type 4 (T4)		700 (7)	5000K (50K)		Tennis Arm (TA)	Graphite (GPH)	
	Type 5 (T5)		1050 (1)				Grey (GRY)	
Nema 2 24° Narrow Beam (N2)						Custom (CS)		
Nema 3 30° Narrow Beam (N3)								

**\*\*MUST SPECIFY COLOR\*\***

**ELECTRICAL**

- 120-277 Volts (UNV) or 347-480 Volts (HV)
- 0-10V dimming driver by Philips Advance
- Driver power factor at maximum load is  $\geq .95$ , THD maximum load is 15%
- All internal wiring UL certified for 600 VAC and 105°C
- All drivers, controls, and sensors housed in enclosed IP-65 compartment
- Lumileds Luxeon MX LED's
- CRI >70
- Color temperatures: 3000K, 4000K, 5000K

**OPTIONS**

- **BIRD DETERRANT (BD)**—offers effective and humane deterrent for larger bird species and provides cost-effective long-term solution to nuisance bird infestations and protect your property.
- **MARINE GRADE FINISH (MGF)**—A multi-step process creating protective finishing coat against harsh environments.
  - Chemically washed in a 5 stage cleaning system.
  - Pre-baked
  - Powder coated 3-5 mils of Zinc Rich Super Durable Polyester Primer.
  - 1-2 feet inside pole coverage top and bottom.
  - Oven Baked.
  - Finished Powder Coating of Super Durable Polyester Powder Coat 3-5 mil thickness.
- **SHIELDS (HSS, AHS)**—House Side Shield (HSS) is designed for full property line cut-off. Automotive House Side Shield (AHS) is a single-sided shield allowing partial cut-off on either side or front of luminaire.
- **ROUND POLE ADAPTER (RPA)**— When using round poles, specify Round Pole Adapter (RPA). Specify RPA4 when installing on 3"-4" round poles, and RPA5 when installing on 5"-6" round poles.

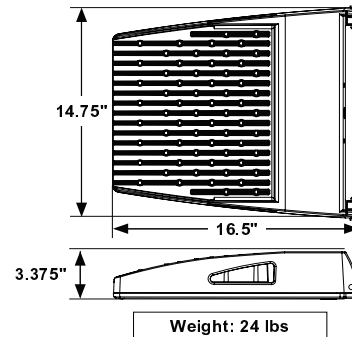
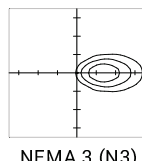
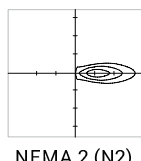
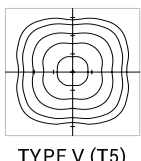
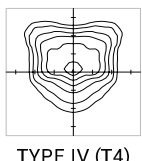
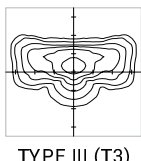
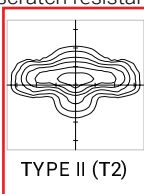
**CONTROLS**

- **FSP-211 (FSP-X)**—Passive infrared (PIR) sensor providing multi-level control based on motion/daylight contribution.
  - All control parameters adjustable via wireless configuration remote storing and transmitting sensor profiles.
  - FSP-20 mounting heights 9-20 feet
  - FSP-40 mounting heights 21-40 feet.
  - Includes 5 dimming event cycles, 0-10V dimming with motion sensing, reprogrammable in the field.
- **NEMA 7-PIN RECEPTACLE (PE7)**—An ANSI C136.41-2013 receptacle provides electrical and mechanical interconnection between photo control cell and luminaire. Dimming receptacle available two or four dimming contacts supports 0-10 VDC dimming methods or Digital Addressable Lighting Interface (DALI), providing reliable power interconnect.

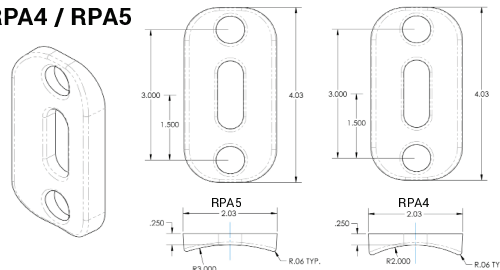
**OPTICS**

Silicone optics high photothermal stability and light output provides higher powered LEDs with minimized lumen depreciation LED life. UV and thermal stability with scratch resistance increases exterior application durability.

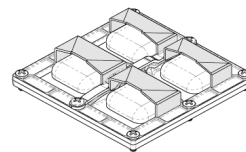
- IES Types



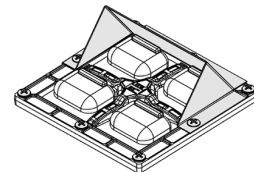
**RPA4 / RPA5**



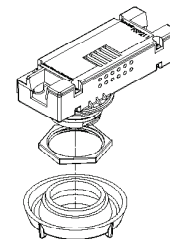
**HOUSE SIDE SHIELD**



**AUTOMOTIVE HOUSE SIDE SHIELD**

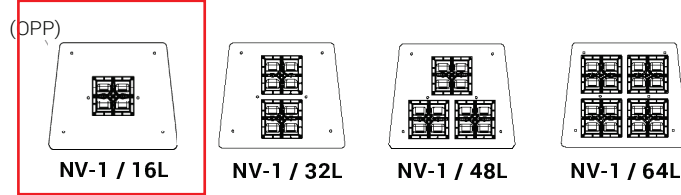


**FSP-211**



**OPTICAL CONFIGURATIONS**

Rotatable Optics (ROR) Rotated Right, (ROL) Rotated Left options available. Optics field and factory rotatable.



\* **OPTIC PLATE PAINTED TO MATCH FIXTURE FINISH (OPP)** – Optic Plate standard clear anodized, Grade 2. When (OPP) specified, Optic Plate finish will match fixture finish.

LUMENS																												
PART NUMBER	N2	LM/W	BUG	N3	LM/W	T2	LM/W	DLC	BUG	T3	LM/W	BUG	T3	LM/W	DLC	BUG	T4	LM/W	BUG	T4	LM/W	DLC	BUG	T5	LM/W	DLC	BUG	W
NV-1-16L-35-30K	1944	108	B2-U0-G0	2016	112	2209	117	P	B1-U0-G1	1134	63	B0-U0-G0	2106	117	P	B1-U0-G1	1116	62	B0-U0-G0	2187	116	P	B1-U0-G1	2124	118	P	B2-U0-G0	18
NV-1-16L-35-40K	2016	112	B2-U0-G0	2088	116	2268	126	P	B1-U0-G1	1206	67	B0-U0-G0	2286	127	P	B1-U0-G1	1188	66	B0-U0-G0	2250	125	P	B1-U0-G1	2304	128	P	B2-U0-G0	18
NV-1-16L-35-50K	2088	116	B2-U0-G0	2160	120	2376	132	P	B1-U0-G1	1278	71	B0-U0-G0	2394	133	P	B1-U0-G1	1260	70	B0-U0-G0	2358	131	P	B1-U0-G1	2412	134	P	B2-U0-G2	18
NV-1-16L-53-30K	3024	108	B3-U0-G1	3136	112	3192	114	P	B1-U0-G1	1764	63	B0-U0-G1	3220	115	P	B1-U0-G1	1736	62	B0-U0-G1	3119	113	P	B1-U0-G1	3248	116	P	B2-U0-G1	28
NV-1-16L-53-40K	3136	112	B3-U0-G1	3248	116	3472	124	P	B1-U0-G1	1876	67	B0-U0-G1	3472	124	P	B1-U0-G1	1848	66	B0-U0-G1	3444	123	P	B1-U0-G1	3500	125	P	B2-U0-G1	28
NV-1-16L-53-50K	3248	116	B3-U0-G1	3360	120	3612	129	P	B1-U0-G1	1988	71	B0-U0-G1	3640	130	P	B1-U0-G1	1960	70	B0-U0-G1	3584	128	P	B1-U0-G1	3668	131	P	B2-U0-G1	28
NV-1-16L-7-30K	3888	108	B3-U0-G1	4032	112	3960	110	P	B1-U0-G1	2268	63	B0-U0-G1	3960	110	P	B1-U0-G1	2232	62	B0-U0-G1	3973	109	P	B1-U0-G1	3996	111	P	B3-U0-G1	36
NV-1-16L-7-40K	4032	112	B3-U0-G1	4176	116	4428	123	P	B1-U0-G1	2412	67	B0-U0-G1	4284	119	P	B1-U0-G1	2376	66	B0-U0-G1	4212	117	P	B1-U0-G1	4320	120	P	B3-U0-G1	36
NV-1-16L-7-50K	4176	116	B3-U0-G1	4320	120	4644	129	P	B1-U0-G1	2556	71	B0-U0-G1	4500	125	P	B1-U0-G1	2520	70	B0-U0-G1	4428	123	P	B1-U0-G1	4500	125	P	B3-U0-G1	36
NV-1-16L-1-30K	6048	108	B3-U0-G1	6272	112	6160	110	S	B1-U0-G1	3528	63	B0-U0-G1	6384	114	P	B1-U0-G1	3472	62	B0-U0-G1	6232	112	P	B1-U0-G1	6440	115	P	B3-U0-G1	56
NV-1-16L-1-40K	6272	112	B3-U0-G1	6496	116	6832	122	P	B1-U0-G1	3752	67	B0-U0-G1	6888	123	P	B2-U0-G2	3696	66	B0-U0-G1	6776	121	P	B2-U0-G2	6944	124	P	B3-U0-G2	56
NV-1-16L-1-50K	6496	116	B4-U0-G1	6720	120	7168	128	P	B1-U0-G2	3976	71	B0-U0-G2	7224	129	P	B2-U0-G2	3920	70	B0-U0-G1	7112	127	P	B2-U0-G2	7280	130	P	B3-U0-G2	56
NV-1-32L-7-30K	7668	108	B4-U0-G1	7952	112	7810	110	S	B1-U0-G2	4473	63	B0-U0-G1	7810	110	S	B2-U0-G2	4402	62	B0-U0-G1	7739	109	S	B2-U0-G2	7881	111	S	B3-U0-G2	71
NV-1-32L-7-40K	7952	112	B4-U0-G1	8236	116	8017	127	P	B1-U0-G2	4757	67	B0-U0-G1	8449	119	P	B2-U0-G2	4686	66	B0-U0-G2	8307	117	P	B2-U0-G2	8520	120	P	B3-U0-G2	71
NV-1-32L-7-50K	8236	116	B4-U0-G1	8520	120	8159	129	P	B2-U0-G2	5041	71	B0-U0-G2	8875	125	P	B2-U0-G2	4970	70	B0-U0-G2	8733	123	P	B2-U0-G2	8946	126	P	B3-U0-G2	71
NV-1-32L-1-30K	11448	108	B4-U0-G1	11872	112	11660	110	S	B2-U0-G2	6678	63	B0-U0-G2	12084	114	S	B2-U0-G2	6572	62	B0-U0-G2	11820	112	S	B2-U0-G2	12190	115	S	B4-U0-G2	106
NV-1-32L-1-40K	11872	112	B4-U0-G1	12296	116	12932	122	P	B2-U0-G2	7102	67	B0-U0-G2	13038	123	P	B2-U0-G2	6996	66	B0-U0-G2	12826	121	P	B3-U0-G2	13144	124	P	B4-U0-G2	106
NV-1-32L-1-50K	12296	116	B4-U0-G1	12720	120	13568	128	P	B2-U0-G2	7526	71	B0-U0-G2	13674	129	P	B3-U0-G3	7420	70	B0-U0-G2	13462	127	P	B3-U0-G3	13780	130	P	B4-U0-G2	106
NV-1-48L-7-30K	11232	108	B4-U0-G1	11648	112	11440	110	S	B2-U0-G2	6552	63	B0-U0-G2	11440	110	S	B2-U0-G2	6448	62	B0-U0-G2	11336	109	S	B2-U0-G2	11544	111	S	B4-U0-G2	104
NV-1-48L-7-40K	11648	112	B4-U0-G1	12064	116	13208	127	P	B2-U0-G2	6968	67	B0-U0-G2	12376	119	P	B2-U0-G2	6864	66	B0-U0-G2	12168	117	P	B2-U0-G2	12480	120	P	B4-U0-G2	104
NV-1-48L-7-50K	12064	116	B4-U0-G1	12480	120	13520	130	P	B2-U0-G2	7384	71	B0-U0-G2	13000	125	P	B3-U0-G3	7280	70	B0-U0-G2	12792	123	P	B2-U0-G2	13104	126	P	B4-U0-G2	104
NV-1-48L-1-30K	16848	108	B5-U0-G1	17472	112	17160	110	S	B3-U0-G3	9828	63	B1-U0-G2	17784	114	S	B3-U0-G3	9672	62	B1-U0-G2	17472	112	S	B3-U0-G3	17940	115	S	B4-U0-G2	156
NV-1-48L-1-40K	17472	112	B5-U0-G1	18096	116	19032	122	P	B3-U0-G3	10452	67	B1-U0-G2	19188	123	P	B3-U0-G3	10296	66	B1-U0-G2	18876	121	P	B3-U0-G3	19344	124	P	B5-U0-G3	156
NV-1-48L-1-50K	18096	116	B5-U0-G1	18720	120	19968	128	P	B3-U0-G3	11076	71	B1-U0-G2	20124	129	P	B3-U0-G3	10920	70	B1-U0-G2	19812	127	P	B3-U0-G3	20280	130	P	B5-U0-G3	156
NV-1-64L-7-30K	14688	108	B5-U0-G1	15232	112	14960	110	S	B2-U0-G2	8568	63	B0-U0-G2	14960	110	S	B3-U0-G3	8432	62	B1-U0-G2	14824	109	S	B3-U0-G3	15096	111	S	B4-U0-G2	136
NV-1-64L-7-40K	15232	112	B5-U0-G1	15776	116	17272	127	P	B3-U0-G3	9112	67	B0-U0-G2	16184	119	P	B3-U0-G3	8976	66	B1-U0-G2	15912	117	P	B3-U0-G3	16320	120	P	B4-U0-G2	136
NV-1-64L-7-50K	15776	116	B5-U0-G1	16320	120	17680	130	P	B3-U0-G3	9656	71	B1-U0-G2	17000	125	P	B3-U0-G3	9520	70	B1-U0-G2	16728	123	P	B3-U0-G3	17136	126	P	B4-U0-G2	136
NV-1-64L-1-30K	22140	108	B5-U0-G1	22960	112	22550	110	S	B3-U0-G3	12915	63	B1-U0-G2	23370	114	S	B3-U0-G3	12710	62	B1-U0-G3	22960	112	S	B3-U0-G3	23575	115	S	B5-U0-G3	205
NV-1-64L-1-40K	22960	112	B5-U0-G1	23780	116	25010	122	P	B3-U0-G3	13735	67	B1-U0-G3	25215	123	P	B3-U0-G3	13530	66	B1-U0-G3	24805	121	P	B3-U0-G4	25420	124	P	B5-U0-G3	205
NV-1-64L-1-50K	23780	116	B5-U0-G1	24600	120	26240	128	P	B3-U0-G3	14555	71	B1-U0-G3	26445	129	P	B3-U0-G3	14350	70	B1-U0-G3	26035	127	P	B3-U0-G4	26650	130	P	B5-U0-G3	205

\*DLC S= Standard  
P= Premium

**EPA**

EPA	SGL	D90	D180	T90	T120	QD
NV-1-DP	0.46	1.14	0.92	1.34	1.37	1.34
NV-1-KM	0.54	N/A	1.08	N/A	N/A	N/A
NV-1-SA	0.75	1.29	1.50	1.99	2.05	1.99

**L70/L90 DATA**

TEMP.	NV-1	
	L70 (64L-1050mA)	L90 (64L-1050mA)
25°C	483,000	160,000

**DPX ARM LENGTH**

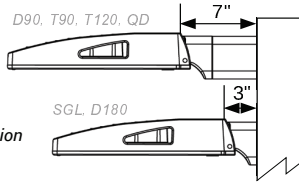
DPX ARM LENGTH	SGL	D90	D180	T90	T120	QD
NV-1	3"	7"	3"	7"	7"	7"

**MOUNTING OPTIONS**

**DIRECT POLE (DP)**

Standard mounting arm is extruded aluminum in lengths of 3" and 7".

\*Arm lengths may vary depending on configuration



**TENNIS ARM (TA)**

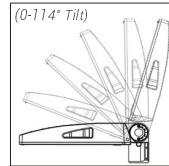
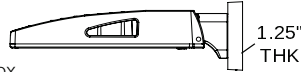
Steel fitter slips over 3.5" x 1.5" rectangular arm.

\*See Tennis Arm Spec Sheet for details



**WALL MOUNT (WM)**

Cast Aluminum Plate for direct wall mount. 3" extruded aluminum arm mounts directly to a cast wall mount box.



**KNUCKLE MOUNT (KM)**

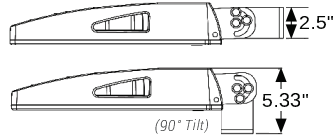
Die Cast Knuckle great for adjustable installation on 2-3/8" OD vertical or horizontal tenon.

- Max Uptilt of 114 degrees
- Adjustable in 6 degree increments

**TRUNNION MOUNT (TM)**

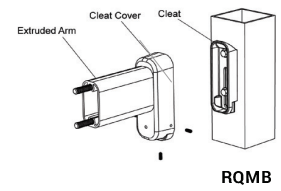
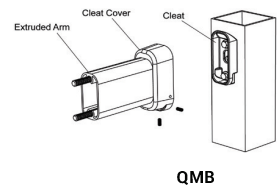
Steel, bolt-on-mounting for adjustable installation with a maximum uplift of 90 degrees.

\*Unpainted stainless steel is standard



**OPTIONAL**

Optional Cast Aluminum Bracket, **Quick Mount Bracket (QMB)** and **Retrofit Quick Mount Bracket (RQMB)**, designed for quick mounting on Direct Square or Round Poles. Cleat mounts directly to pole for easily hung fixtures.



Notes:



**NV-1**

AREA LIGHTING

**FORM AND FUNCTION**

- Sleek, low profile housing
- Spec grade performance
- Engineered for optimum thermal management
- Low depreciation rate
- Reduces energy consumption and costs up to 65%
- Exceeds IES foot candle levels utilizing the least number of poles and fixtures per project
- Optical system designed for:
  - Parking Lots
  - Auto Dealerships
  - General Area Lighting

**CONSTRUCTION**

- Die Cast Aluminum
- External cooling fins, Finite Element Analysis (FEA) designed
- Corrosion resistant external hardware
- One-piece silicone gasket ensures IP-65 seal for electronics compartment
- One-piece Optics Plate™ mounting silicone Micro Optics
- Two-piece silicone Micro Optic system ensures IP-67 level seal around each PCB
- Grade 2 Clear Anodized Optics Plate™ standard

**FINISH**

- 3-5 mils electrostatic powder coat.
- NLS' standard high-quality finishes prevent corrosion protects against and extreme environmental conditions

**WARRANTY**

Five-year limited warranty for drivers and LEDs.



**LISTINGS**

- Certified to UL 1598
- UL 8750
- CSA C22.2 No. 250.0
- DesignLights Consortium® (DLC)
- DesignLights Consortium Premium® (DLCP)
- IP65/ IP67 Rated
- 3G Vibration Rated per ANSI C136.31-2010



**LED WATTAGE CHART**

	16L	32L	48L	64L
350 milliamps	18w	-	-	-
530 milliamps	28w	-	-	-
700 milliamps	36w	71w	104w	136w
1050 milliamps	56w	106w	156w	205w

Project Name: \_\_\_\_\_ Type: \_\_\_\_\_

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Cat #	Light Dist.	No. of LEDs	Milliamps	Kelvin	Volts	Mounting	Color	Options
NV Size 1 (NV-1)	Type 2 (T2)	16 (16L) 32 (32L)	350 (35)	3000K (30K)	120-277 (UNV)	Direct Pole Single_D180 3" (DPS3)	Bronze (BRZ)	Bird Deterrent (BD) Marine Grade Finish (MGF) Optic Plate Painted to Match Fixture (OPP) Nema 7-Pin Receptacle (PE7) Photocell + Receptacle (PCR) Receptacle + Shorting Cap (PER) FSP-211 with Motion Sensor (UNV Voltage) (FSP-20) *9'-20" Heights (FSP-40) *21'-40" Heights Surge Protector (10K) Quick Mount Bracket (QMB) Retrofit Mount Bracket (RQMB) Round Pole Adaptor 3"- 4" Pole (RPA4) Round Pole Adaptor 5"- 6" Pole (RPA5) Rotated Optic Left (ROL) Rotated Optic Right (ROR) Automotive House Side Shield (AHS) House Side Shield (HSS) *HSS not applicable with N2 - NEMA 24° Optics *HSS not applicable with N3 - NEMA 30° Optics
	Type 3 (T3)	48 (48L) 64 (64L)	530 (53)	4000K (40K)	347-480 (HV)	D90_T90_T120_QD 7" (DPS7)	White (WHT)	
	Type 4 (T4)		700 (7)	5000K (50K)		Knuckle Mount (KM) Wall Mount (WM)	Silver (SVR)	
	Type 5 (T5)		1050 (1)			Ironunion Mount (TM) *Standard finish is stainless steel. Can be painted to match fixture	Black (BLK)	
	Nema 2 24° Narrow Beam (N2)					Tennis Arm (TA) *See next page for Arm Configurations *For Round Pole, please specify RPA4 or RPA5	Graphite (GPH)	
Nema 3 30° Narrow Beam (N3)						Grey (GRY)		
							Custom (CS)	

**NV-1 -T4 -16L -7 -30K -UNV -WM -FINISH**

**ELECTRICAL**

- 120-277 Volts (UNV) or 347-480 Volts (HV)
- 0-10V dimming driver by Philips Advance
- Driver power factor at maximum load is  $\geq .95$ , THD maximum load is 15%
- All internal wiring UL certified for 600 VAC and 105°C
- All drivers, controls, and sensors housed in enclosed IP-65 compartment
- Lumileds Luxeon MX LED's
- CRI >70
- Color temperatures: 3000K, 4000K, 5000K

**OPTIONS**

- **BIRD DETERRANT (BD)**—offers effective and humane deterrent for larger bird species and provides cost-effective long-term solution to nuisance bird infestations and protect your property.
- **MARINE GRADE FINISH (MGF)**—A multi-step process creating protective finishing coat against harsh environments.
  - Chemically washed in a 5 stage cleaning system.
  - Pre-baked
  - Powder coated 3-5 mils of Zinc Rich Super Durable Polyester Primer.
  - 1-2 feet inside pole coverage top and bottom.
  - Oven Baked.
  - Finished Powder Coating of Super Durable Polyester Powder Coat 3-5 mil thickness.
- **SHIELDS (HSS, AHS)**—House Side Shield (HSS) is designed for full property line cut-off. Automotive House Side Shield (AHS) is a single-sided shield allowing partial cut-off on either side or front of luminaire.
- **ROUND POLE ADAPTER (RPA)**— When using round poles, specify Round Pole Adapter (RPA). Specify RPA4 when installing on 3"-4" round poles, and RPA5 when installing on 5"-6" round poles.

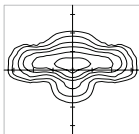
**CONTROLS**

- **FSP-211 (FSP-X)**—Passive infrared (PIR) sensor providing multi-level control based on motion/daylight contribution.
  - All control parameters adjustable via wireless configuration remote storing and transmitting sensor profiles.
  - FSP-20 mounting heights 9-20 feet
  - FSP-40 mounting heights 21-40 feet.
  - Includes 5 dimming event cycles, 0-10V dimming with motion sensing, reprogrammable in the field.
- **NEMA 7-PIN RECEPTACLE (PE7)**—An ANSI C136.41-2013 receptacle provides electrical and mechanical interconnection between photo control cell and luminaire. Dimming receptacle available two or four dimming contacts supports 0-10 VDC dimming methods or Digital Addressable Lighting Interface (DALI), providing reliable power interconnect.

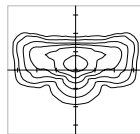
**OPTICS**

Silicone optics high photothermal stability and light output provides higher powered LEDs with minimized lumen depreciation LED life. UV and thermal stability with scratch resistance increases exterior application durability.

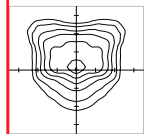
- IES Types



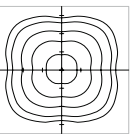
TYPE II (T2)



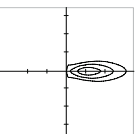
TYPE III (T3)



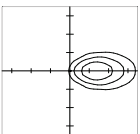
TYPE IV (T4)



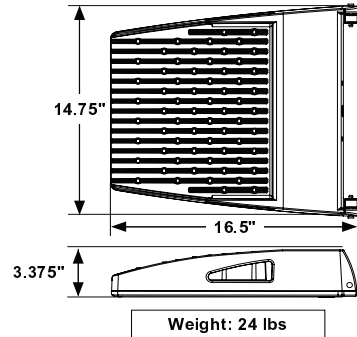
TYPE V (T5)



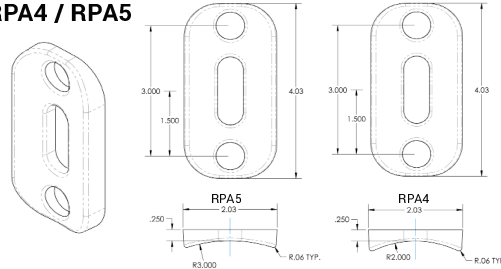
NEMA 2 (N2)



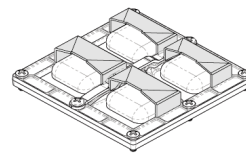
NEMA 3 (N3)



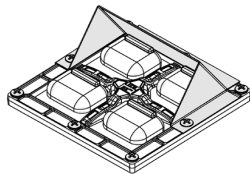
**RPA4 / RPA5**



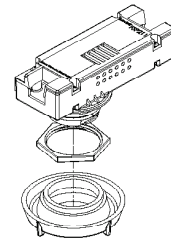
**HOUSE SIDE SHIELD**



**AUTOMOTIVE HOUSE SIDE SHIELD**

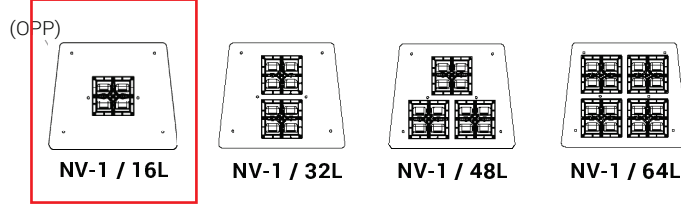


**FSP-211**



**OPTICAL CONFIGURATIONS**

Rotatable Optics (ROR) Rotated Right, (ROL) Rotated Left options available. Optics field and factory rotatable.



\* **OPTIC PLATE PAINTED TO MATCH FIXTURE FINISH (OPP)** – Optic Plate standard clear anodized, Grade 2. When (OPP) specified, Optic Plate finish will match fixture finish.

LUMENS																												
PART NUMBER	N2	LM/W	BUG	N3	LM/W	T2	LM/W	DLC	BUG	T3 HSS	LM/W	BUG	T3	LM/W	DLC	BUG	T4 HSS	LM/W	BUG	T4	LM/W	DLC	BUG	T5	LM/W	DLC	BUG	W
NV-1-16L-35-30K	1944	108	B2-U0-G0	2016	112	2209	117	P	B1-U0-G1	1134	63	B0-U0-G0	2106	117	P	B1-U0-G1	1116	62	B0-U0-G0	2187	116	P	B1-U0-G1	2124	118	P	B2-U0-G0	18
NV-1-16L-35-40K	2016	112	B2-U0-G0	2088	116	2268	126	P	B1-U0-G1	1206	67	B0-U0-G0	2286	127	P	B1-U0-G1	1188	66	B0-U0-G0	2250	125	P	B1-U0-G1	2304	128	P	B2-U0-G0	18
NV-1-16L-35-50K	2088	116	B2-U0-G0	2160	120	2376	132	P	B1-U0-G1	1278	71	B0-U0-G0	2394	133	P	B1-U0-G1	1260	70	B0-U0-G0	2358	131	P	B1-U0-G1	2412	134	P	B2-U0-G2	18
NV-1-16L-53-30K	3024	108	B3-U0-G1	3136	112	3192	114	P	B1-U0-G1	1764	63	B0-U0-G1	3220	115	P	B1-U0-G1	1736	62	B0-U0-G1	3119	113	P	B1-U0-G1	3248	116	P	B2-U0-G1	28
NV-1-16L-53-40K	3136	112	B3-U0-G1	3248	116	3472	124	P	B1-U0-G1	1876	67	B0-U0-G1	3472	124	P	B1-U0-G1	1848	66	B0-U0-G1	3444	123	P	B1-U0-G1	3500	125	P	B2-U0-G1	28
NV-1-16L-53-50K	3248	116	B3-U0-G1	3360	120	3612	129	P	B1-U0-G1	1988	71	B0-U0-G1	3640	130	P	B1-U0-G1	1960	70	B0-U0-G1	3584	128	P	B1-U0-G1	3668	131	P	B2-U0-G1	28
NV-1-16L-7-30K	3888	108	B3-U0-G1	4032	112	3960	110	P	B1-U0-G1	2268	63	B0-U0-G1	3960	110	P	B1-U0-G1	2232	62	B0-U0-G1	3973	109	P	B1-U0-G1	3996	111	P	B3-U0-G1	36
NV-1-16L-7-40K	4032	112	B3-U0-G1	4176	116	4428	123	P	B1-U0-G1	2412	67	B0-U0-G1	4284	119	P	B1-U0-G1	2376	66	B0-U0-G1	4212	117	P	B1-U0-G1	4320	120	P	B3-U0-G1	36
NV-1-16L-7-50K	4176	116	B3-U0-G1	4320	120	4644	129	P	B1-U0-G1	2556	71	B0-U0-G1	4500	125	P	B1-U0-G1	2520	70	B0-U0-G1	4428	123	P	B1-U0-G1	4500	125	P	B3-U0-G1	36
NV-1-16L-1-30K	6048	108	B3-U0-G1	6272	112	6160	110	S	B1-U0-G1	3528	63	B0-U0-G1	6384	114	P	B1-U0-G1	3472	62	B0-U0-G1	6232	112	P	B1-U0-G1	6440	115	P	B3-U0-G1	56
NV-1-16L-1-40K	6272	112	B3-U0-G1	6496	116	6832	122	P	B1-U0-G1	3752	67	B0-U0-G1	6888	123	P	B2-U0-G2	3696	66	B0-U0-G1	6776	121	P	B2-U0-G2	6944	124	P	B3-U0-G2	56
NV-1-16L-1-50K	6496	116	B4-U0-G1	6720	120	7168	128	P	B1-U0-G2	3976	71	B0-U0-G1	7224	129	P	B2-U0-G2	3920	70	B0-U0-G1	7112	127	P	B2-U0-G2	7280	130	P	B3-U0-G2	56
NV-1-32L-7-30K	7668	108	B4-U0-G1	7952	112	7810	110	S	B1-U0-G2	4473	63	B0-U0-G1	7810	110	S	B2-U0-G2	4402	62	B0-U0-G1	7739	109	S	B2-U0-G2	7881	111	S	B3-U0-G2	71
NV-1-32L-7-40K	7952	112	B4-U0-G1	8236	116	8017	127	P	B1-U0-G2	4757	67	B0-U0-G1	8449	119	P	B2-U0-G2	4686	66	B0-U0-G2	8307	117	P	B2-U0-G2	8520	120	P	B3-U0-G2	71
NV-1-32L-7-50K	8236	116	B4-U0-G1	8520	120	8359	129	P	B2-U0-G2	5041	71	B0-U0-G2	8875	125	P	B2-U0-G2	4970	70	B0-U0-G2	8733	123	P	B2-U0-G2	8946	126	P	B3-U0-G2	71
NV-1-32L-1-30K	11448	108	B4-U0-G1	11872	112	11660	110	S	B2-U0-G2	6678	63	B0-U0-G2	12084	114	S	B2-U0-G2	6572	62	B0-U0-G2	11820	112	S	B2-U0-G2	12190	115	S	B4-U0-G2	106
NV-1-32L-1-40K	11872	112	B4-U0-G1	12296	116	12932	122	P	B2-U0-G2	7102	67	B0-U0-G2	13038	123	P	B2-U0-G2	6996	66	B0-U0-G2	12826	121	P	B3-U0-G2	13144	124	P	B4-U0-G2	106
NV-1-32L-1-50K	12296	116	B4-U0-G1	12720	120	13568	128	P	B2-U0-G2	7526	71	B0-U0-G2	13674	129	P	B3-U0-G3	7420	70	B0-U0-G2	13462	127	P	B3-U0-G3	13780	130	P	B4-U0-G2	106
NV-1-48L-7-30K	11232	108	B4-U0-G1	11648	112	11440	110	S	B2-U0-G2	6552	63	B0-U0-G2	11440	110	S	B2-U0-G2	6448	62	B0-U0-G2	11336	109	S	B2-U0-G2	11544	111	S	B4-U0-G2	104
NV-1-48L-7-40K	11648	112	B4-U0-G1	12064	116	13208	127	P	B2-U0-G2	6968	67	B0-U0-G2	12376	119	P	B2-U0-G2	6864	66	B0-U0-G2	12168	117	P	B2-U0-G2	12480	120	P	B4-U0-G2	104
NV-1-48L-7-50K	12064	116	B4-U0-G1	12480	120	13520	130	P	B2-U0-G2	7384	71	B0-U0-G2	13000	125	P	B3-U0-G3	7280	70	B0-U0-G2	12792	123	P	B2-U0-G2	13104	126	P	B4-U0-G2	104
NV-1-48L-1-30K	16848	108	B5-U0-G1	17472	112	17160	110	S	B3-U0-G3	9828	63	B1-U0-G2	17784	114	S	B3-U0-G3	9672	62	B1-U0-G2	17472	112	S	B3-U0-G3	17940	115	S	B4-U0-G2	156
NV-1-48L-1-40K	17472	112	B5-U0-G1	18096	116	19032	122	P	B3-U0-G3	10452	67	B1-U0-G2	19188	123	P	B3-U0-G3	10296	66	B1-U0-G2	18876	121	P	B3-U0-G3	19344	124	P	B5-U0-G3	156
NV-1-48L-1-50K	18096	116	B5-U0-G1	18720	120	19968	128	P	B3-U0-G3	11076	71	B1-U0-G2	20124	129	P	B3-U0-G3	10920	70	B1-U0-G2	19812	127	P	B3-U0-G3	20280	130	P	B5-U0-G3	156
NV-1-64L-7-30K	14688	108	B5-U0-G1	15232	112	14960	110	S	B2-U0-G2	8568	63	B0-U0-G2	14960	110	S	B3-U0-G3	8432	62	B1-U0-G2	14824	109	S	B3-U0-G3	15096	111	S	B4-U0-G2	136
NV-1-64L-7-40K	15232	112	B5-U0-G1	15776	116	17272	127	P	B3-U0-G3	9112	67	B0-U0-G2	16184	119	P	B3-U0-G3	8976	66	B1-U0-G2	15912	117	P	B3-U0-G3	16320	120	P	B4-U0-G2	136
NV-1-64L-7-50K	15776	116	B5-U0-G1	16320	120	17680	130	P	B3-U0-G3	9656	71	B1-U0-G2	17000	125	P	B3-U0-G3	9520	70	B1-U0-G2	16728	123	P	B3-U0-G3	17136	126	P	B4-U0-G2	136
NV-1-64L-1-30K	22140	108	B5-U0-G1	22960	112	22550	110	S	B3-U0-G3	12915	63	B1-U0-G2	23370	114	S	B3-U0-G3	12710	62	B1-U0-G3	22960	112	S	B3-U0-G3	23575	115	S	B5-U0-G3	205
NV-1-64L-1-40K	22960	112	B5-U0-G1	23780	116	25010	122	P	B3-U0-G3	13735	67	B1-U0-G3	25215	123	P	B3-U0-G3	13530	66	B1-U0-G3	24805	121	P	B3-U0-G4	25420	124	P	B5-U0-G3	205
NV-1-64L-1-50K	23780	116	B5-U0-G1	24600	120	26240	128	P	B3-U0-G3	14555	71	B1-U0-G3	26445	129	P	B3-U0-G3	14350	70	B1-U0-G3	26035	127	P	B3-U0-G4	26650	130	P	B5-U0-G3	205

\*DLC S= Standard P= Premium

**EPA**

EPA	SGL	D90	D180	T90	T120	QD
NV-1-DP	0.46	1.14	0.92	1.34	1.37	1.34
NV-1-KM	0.54	N/A	1.08	N/A	N/A	N/A
NV-1-SA	0.75	1.29	1.50	1.99	2.05	1.99

**L70/L90 DATA**

TEMP.	NV-1	
	L70 (64L-1050mA)	L90 (64L-1050mA)
25°C	483,000	160,000

**DPX ARM LENGTH**

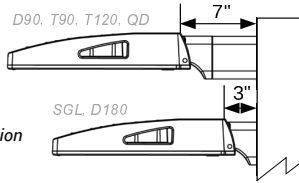
DPX ARM LENGTH	SGL	D90	D180	T90	T120	QD
NV-1	3"	7"	3"	7"	7"	7"

**MOUNTING OPTIONS**

**DIRECT POLE (DP)**

Standard mounting arm is extruded aluminum in lengths of 3" and 7".

\*Arm lengths may vary depending on configuration



**TENNIS ARM (TA)**

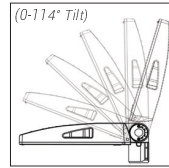
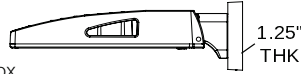
Steel fitter slips over 3.5" x 1.5" rectangular arm.

\*See Tennis Arm Spec Sheet for details



**WALL MOUNT (WM)**

Cast Aluminum Plate for direct wall mount. 3" extruded aluminum arm mounts directly to a cast wall mount box.



**KNUCKLE MOUNT (KM)**

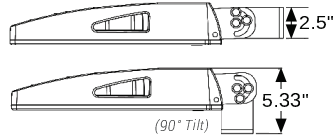
Die Cast Knuckle great for adjustable installation on 2-3/8" OD vertical or horizontal tenon.

- Max Uptilt of 114 degrees
- Adjustable in 6 degree increments

**TRUNNION MOUNT (TM)**

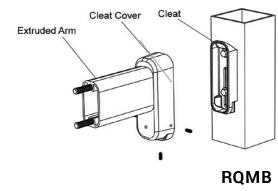
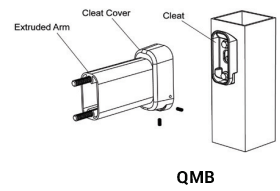
Steel, bolt-on-mounting for adjustable installation with a maximum uplift of 90 degrees.

\*Unpainted stainless steel is standard



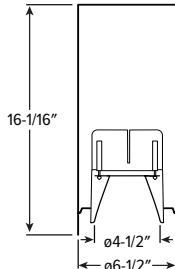
**OPTIONAL**

Optional Cast Aluminum Bracket, **Quick Mount Bracket (QMB)** and **Retrofit Quick Mount Bracket (RQMB)**, designed for quick mounting on Direct Square or Round Poles. Cleat mounts directly to pole for easily hung fixtures.



Notes:

# 6CR LED 6.5" Cylinder – Round



CATALOG #: \_\_\_\_\_

TYPE: \_\_\_\_\_

PROJECT: \_\_\_\_\_

6CR-TL -L20 -8 30 -FINISH -DIM -UNV -O W -CS-WM

## FEATURES

### TrimLock® | TwistLock™

- Wide range of lumen options for general illumination
- Parallel the performance and style of the Williams downlight collection
- Precision illumination with 10° narrow to 65° wide optics
- Complement the architectural elements of any space with a multitude of housing, trim and cord finishes
- Limitless application opportunities via pendant, cable, power cord, wall and ceiling mounts
- Ensure a simple and secure installation with TwistLock™ surface mount technology

## SPECIFICATIONS

- HOUSING** – Extruded aluminum with die-cast aluminum accent ring.
- FINISH** – Polyester powder coat bonded to phosphate-free, multi-stage pretreated metal. All parts painted after fabrication to facilitate installation, increase efficiency, and inhibit corrosion.
- TRIMLOCK** – Innovative TrimLock® reflector retention system ensures trim remains secure.
- OPEN REFLECTOR** – Low-iridescent anodized aluminum. Clear semi-specular finish standard.
- LENSED TRIM** – Die-cast aluminum frame with micro-prismatic, tempered glass lens.
- ELECTRICAL** – High-performance Class 2 C.O.B. LED array. Modular quick-connect plug for easy field-connection of LED light assembly to driver. Reported L70>55,000 hours. Reported L90>55,000 hours. Estimated L70 = 200,000 hours.
- MOUNTING** – Surface, cable, pendant, power cord, or wall mount. Indoor applications only. Max weight 9-1/2 lbs.
- LISTINGS** –
  - cCSAus conforms to UL STD 1598 and UL STD 8750. Certified to CAN/CSA STD C22.2 No. 250.0. Suitable for damp locations.
- WARRANTY** – 5-year limited warranty, see [hew.com/warranty](http://hew.com/warranty).

## HOUSING

SERIES	LUMENS <sup>[1]</sup>	CRI	CCT	OPTIONS	HOUSING FINISH <sup>[2]</sup>	CONTROL <sup>[3]</sup>	VOLTAGE
6CR - TL	L10 1,000lm	8 80	27 2700K	F Fuse	ALUM Silver sparkle aluminum	DIM Dimming driver, 0-10V	UNV 120-277V
TrimLock	L15 1,500lm	9 90 <sup>[5]</sup>	30 3000K	SDT Stepdown transformer <sup>[6]</sup>	BLK Textured black	DIM1 1% Dimming driver, 0-10V	347 347V
	L20 2,000lm		35 3500K		BRZ Textured bronze		
	L30 3,000lm		40 4000K		NKL Textured nickel		
	L40 4,000lm		50 5000K		SLV Textured silver		
	L50 5,000lm				WHT Textured white		
	L60 6,000lm						
	L70 7,000lm <sup>[4]</sup>						

\*\*SPECIFY FINISH\*\*

## TRIM

TRIM TYPE	DISTRIBUTION <sup>[7]</sup>	REFLECTOR FINISH <sup>[8]</sup>	TRIM OPTIONS
O Open reflector	W 65° Wide	Open Trim Types	AD Diffuse acrylic lens <sup>[11]</sup>
L Flush lens	M 45° Medium <sup>[9]</sup>	CS Clear semi-specular anodize	PD Diffuse 1/8" polycarbonate lens <sup>[12]</sup>
R Regressed lens	N 10° Narrow <sup>[10]</sup>	SG Satin-glow anodize	TD Diffuse polycarbonate lens media at top of open reflector <sup>[13]</sup>
		GD Gold anodize	
		CG Champagne gold anodize	
		PW Pewter anodize	
		SPC Clear specular anodize	
		RG Rose gold anodize	
		WH White texture powder coat	
		BL Black texture powder coat	
		<b>Lens Trim Types</b>	
		CS Clear semi-specular powder coat	
		WH White texture powder coat	
		BL Black texture powder coat	
		BZ Bronze texture powder coat	
		NK Nickel texture powder coat	
		SV Silver texture powder coat	
		AL Silver sparkle aluminum	

## MOUNTING

### MOUNTING TYPE<sup>[14]</sup>

- CM\_\_ Adjustable aircraft cable mount, 24" length standard. Example: 24" cable = **CM24**<sup>[15]</sup>
- PM\_\_ Pendant mount. Example: 24" pendant = **PM24**<sup>[16]</sup>
- PC\_\_ Power cord mount. Example: 24" cord = **PC24**<sup>[17]</sup>
- SM TwistLock surface mount to octagonal J-box
- WM** Wall mount

### NOTES

- Lumen output based on O trim type, W distribution and CS finish. 3500K/80CRI. Actual lumens may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA.
- See page 4 for HOUSING FINISH DETAILS.
- See page 3 for ADDITIONAL CONTROL OPTIONS.
- O Trim Type only.
- Extended lead times may apply. Consult factory for availability.
- May be required for 347V, see product builder at [hew.com/product-builder](http://hew.com/product-builder). Increases fixture weight by 2 lbs.
- Beam angle based on O Trim Type and CS reflector finish. Trim Type affects beam angle. See page 2 for FIXTURE PERFORMANCE DATA.
- See page 4 for REFLECTOR FINISH DETAILS.
- Not available with lumen stops L50 and higher when specified with flush or regressed trim types.
- Not available with lumen stops L50 and higher when specified with flush or regressed trim types.
- Not available with lumen stops L50 and higher when specified with flush or regressed trim types.
- Not available with O trim type. W distribution only.
- Not available with O trim type. W distribution only.
- O Trim Type only. L50 lumen package max.
- See page 4 for MOUNTING DETAILS.
- 48" and 96" lengths available. Canopy painted white unless specified otherwise. Must specify cord. See page 4 for CORD OPTIONS.
- Specify length in 1" increments, minimum 6". Canopy and pendant match fixture housing color unless specified otherwise.
- 48" and 96" lengths available. Canopy painted white unless specified otherwise. Must specify cord. See page 4 for CORD OPTIONS.



Notes:

# 6CR LED

## 6.5" Cylinder – Round

### FIXTURE PERFORMANCE DATA

	DISTRIBUTION	WATTAGE	OPEN REFLECTOR TRIM TYPE		FLUSH LENS TRIM TYPE		REGRESSED LENS TRIM TYPE	
			DELIVERED LUMENS	EFFICACY (lm/W)	DELIVERED LUMENS	EFFICACY (lm/W)	DELIVERED LUMENS	EFFICACY (lm/W)
L10	W	9.0	1027	113.6	674	74.6	660	73.0
	M	9.0	999	110.5	895	99.0	895	99.1
	N	9.0	1000	110.6	914	101.2	882	97.7
L15	W	13.9	1466	105.8	994	71.7	972	70.2
	M	13.9	1471	106.2	1319	95.1	1319	95.2
	N	13.9	1473	106.3	1347	97.2	1300	93.8
L20	W	19.8	2005	101.0	1352	68.3	1323	66.2
	M	19.8	2002	101.0	1794	90.6	1795	90.8
	N	19.8	2004	101.1	1833	92.6	1769	88.5
L30	W	27.8	2985	107.3	2022	72.7	1979	71.1
	M	27.8	2900	104.2	2683	96.5	2685	96.5
	N	27.8	2734	98.3	2741	98.6	2646	95.1
L40	W	38.0	3979	104.7	2695	70.9	2638	69.4
	M	38.0	3865	101.7	3577	94.1	3579	94.2
	N	38.0	3644	95.9	3654	96.2	3527	92.8
L50	W	45.2	5124	113.4	3364	74.4	3292	72.8
	M	45.2	4956	109.6	-	-	-	-
	N	45.1	4818	106.8	-	-	-	-
L60	W	47.7	6279	131.6	4234	88.8	4143	86.9
	M	47.7	6073	127.3	-	-	-	-
	N	47.7	5903	123.8	-	-	-	-
L70	W	58.2	7332	126.0	-	-	-	-
	M	58.2	7091	121.8	-	-	-	-
	N	58.2	6894	118.4	-	-	-	-

### MULTIPLIER TABLES

	COLOR TEMPERATURE	
	CCT	CONVERSION FACTOR
80 CRI	2700K	0.92
	3000K	0.98
	3500K	1.00
	4000K	1.01
	5000K	1.02

	COLOR TEMPERATURE	
	CCT	CONVERSION FACTOR
	2700K	0.76
	3000K	0.79
	3500K	0.82
4000K	0.84	
5000K	0.88	

TRIM	
CATALOG NUMBER	CONVERSION FACTOR
AD	0.85
PD	0.85
TD	0.75

REFLECTOR FINISH	
CATALOG NUMBER	CONVERSION FACTOR
CS	1.00
SG <sup>(1)</sup>	0.92
GD	0.93
CG	0.96
PW	0.86
SPC	1.02
RG	0.88
WH <sup>(1)</sup>	0.89
BL <sup>(1)</sup>	0.47

R TRIM	
CATALOG NUMBER	CONVERSION FACTOR
WH	1.00
CS <sup>(1)</sup>	0.98
BL <sup>(1)</sup>	0.79
BZ <sup>(1)</sup>	0.76
NK <sup>(1)</sup>	0.81
SV <sup>(1)</sup>	0.81
AL <sup>(1)</sup>	0.86

### BEAM ANGLE

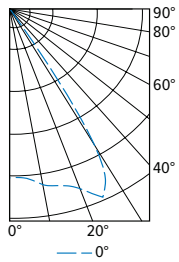
	TRIM TYPE		
	OPEN	FLUSH	REGRESSED
W	65°	50°	50°
M	45°	35°	30°
N	10°	25°	25°

<sup>1</sup> Distribution will also be affected, consult factory.

- Photometrics tested in accordance with IESNA LM-79. Results shown are based on 25°C ambient temperature.
- Wattage shown is based on 120V input.
- Results based on 3500K, 80 CRI, actual lumens may vary +/-5%
- Use multiplier tables to calculate additional options.

### PHOTOMETRY

6CR-TL-L20/835-DIM-UNV-OW-CS Total Luminaire Output: 2005 lumens; 19.8 Watts | Efficacy: 101.0 lm/W | 80 CRI; 3500K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
		0°	
	0	1810	
	5	1864	178
	15	1960	556
	25	2231	1033
	35	307	193
	45	44	35
	55	11	10
	65	1	1
	75	0	0
	85	0	0
	90	0	0

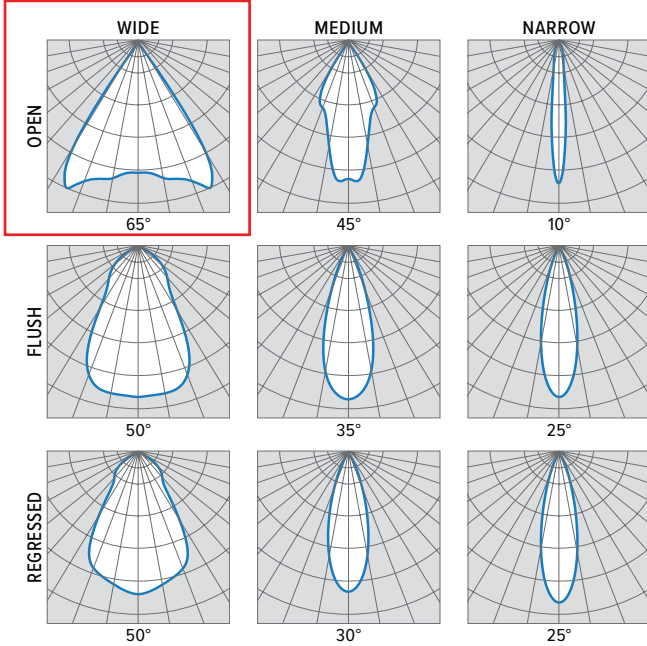
LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	1959	98
	0 - 60	2004	100
	0 - 90	2005	100
	0-180	2005	100



Notes:

# 6CR LED

6.5" Cylinder – Round



### ADDITIONAL CONTROL OPTIONS

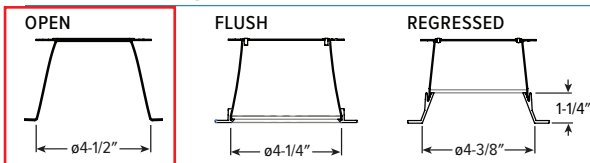
Lumen restrictions apply: L50 max for DMX driver, L40 max for Lutron drivers, L50 max for ELDO drivers, L60 max for DIM LINE driver. DMX available with CM Mounting Type only. 347V may require stepdown transformer, see product builder at [hew.com/product-builder](http://hew.com/product-builder).

CATALOG NUMBER	DESCRIPTION
DIM	Dimming driver prewired for 0-10V low voltage applications
DIM1	1% dimming driver prewired for 0-10V low voltage applications
DIM LINE	Line voltage dimming driver (TRIAC and ELV compatible at 120V only)
DMX	0.1% dimming driver for DMX controls
LTE LINE	Lutron Hi-lume 1% 2-wire dimming driver forward phase line voltage controls (120V only)
LDE1	Lutron Hi-lume 1% EcoSystem dimming LED driver
ELDO SOLOB	EldoLED Solodrive, 0.1% dimming driver for 0-10V controls
ELDO SOLOB DALI	EldoLED Solodrive, 0.1% dimming driver for DALI controls
ELDO ECO1	EldoLED Ecodrive, 1% dimming driver for 0-10V controls
ELDO ECO1 DALI	EldoLED Ecodrive, 1% dimming driver for DALI controls

### TRIMLOCK DETAILS



### TRIM TYPE DETAILS



Notes:

# 6CR LED 6.5" Cylinder – Round

## MOUNTING DETAILS

### PENDANT MOUNT (PM\_\_)



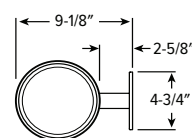
Swivel pendant mount fixtures are provided with:

- 45° Swivel canopy
- 3/8" IPS Threaded stem
- Specify length of stem, 6" minimum, 24" default length

### WALL MOUNT (WM)



Mounts to 4" square J-box.



### SURFACE MOUNT (SM)



TwistLock™

Simple lift-and-twist mounting secures fixture to J-box.

### CABLE MOUNT (CM\_\_)



Cable mount fixtures are provided with:

- Adjustable length aircraft cable, must specify length in inches
- 18-gauge cord in choice of 9 colors, see Cord Options for ordering info.
- One 5" canopy
- T-bar clip with 1/4-20 stud
- Hard ceiling anchor provided by others

### POWER CORD MOUNT (PC)



Power cord mount fixtures are provided with:

- 18-gauge cord in choice of 9 colors, see Cord Options for ordering info.
- One 5" canopy
- Power cord mounting adaptor

## CORD OPTIONS

Must specify cord when cable and power cord mounting.

ORDERING EXAMPLE: S2438/W				
CORD TYPE	LENGTH	# CONDUCTORS	WIRE SIZE	COLOR
S Straight	24 24"	3 3	8 18-gauge	Standard
	48 48"	4 4 <sup>(1)</sup>		/W White
	96 96"	5 5		/B Black
		6 6 <sup>(1)</sup>		Braided
				/WH White
				/BL Black
			/BR Brass	
			/AE Aegean Blue	
			/RE Red	
			/SV Silver	
			/GU Gunmetal	
			/NK Nickel	
			/GR Gray	

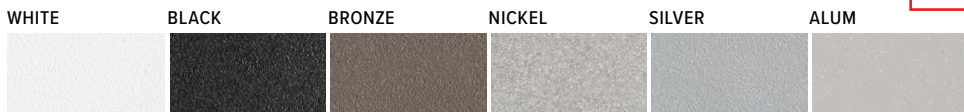
<sup>1</sup> Standard cord only.

## COLOR DETAILS

Additional colors may be available, consult factory.



## HOUSING FINISH DETAILS

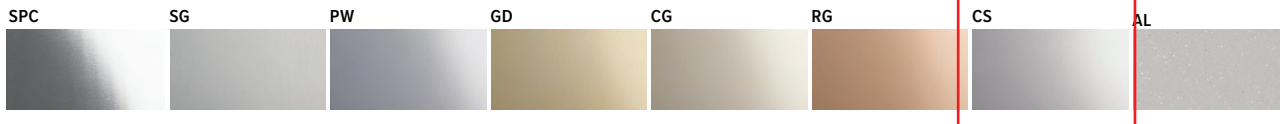


**\*\*MUST SPECIFY\*\***

For custom color, please specify RAL code or a manufacturer code with description. All custom colors other than RAL require two sample swatches, minimum 1" square.

## REFLECTOR FINISH DETAILS

### SMOOTH FINISH



### TEXTURED FINISH





**NV-1**

AREA LIGHTING

**FORM AND FUNCTION**

- Sleek, low profile housing
- Spec grade performance
- Engineered for optimum thermal management
- Low depreciation rate
- Reduces energy consumption and costs up to 65%
- Exceeds IES foot candle levels utilizing the least number of poles and fixtures per project
- Optical system designed for:
  - Parking Lots
  - Auto Dealerships
  - General Area Lighting

**CONSTRUCTION**

- Die Cast Aluminum
- External cooling fins, Finite Element Analysis (FEA) designed
- Corrosion resistant external hardware
- One-piece silicone gasket ensures IP-65 seal for electronics compartment
- One-piece Optics Plate™ mounting silicone Micro Optics
- Two-piece silicone Micro Optic system ensures IP-67 level seal around each PCB
- Grade 2 Clear Anodized Optics Plate™ standard

**FINISH**

- 3-5 mils electrostatic powder coat.
- NLS' standard high-quality finishes prevent corrosion protects against and extreme environmental conditions

**WARRANTY**

Five-year limited warranty for drivers and LEDs.



**LISTINGS**

- Certified to UL 1598
- UL 8750
- CSA C22.2 No. 250.0
- DesignLights Consortium® (DLC)
- DesignLights Consortium Premium® (DLCP)
- IP65/ IP67 Rated
- 3G Vibration Rated per ANSI C136.31-2010



**LED WATTAGE CHART**

	16L	32L	48L	64L
350 milliamps	18w	-	-	-
530 milliamps	28w	-	-	-
700 milliamps	36w	71w	104w	136w
1050 milliamps	56w	106w	156w	205w

Project Name:

Type:

--	--	--	--	--	--	--	--	--

Cat #	Light Dist.	No. of LEDs	Milliamps	Kelvin	Volts	Mounting	Color	Options
NV Size 1 (NV-1)	Type 2 (T2)	16 (16L) 32 (32L)	350 (35)	3000K (30K)	120-277 (UNV)	Direct Pole Single_D180 3" (DPS3)	Bronze (BRZ)	Bird Deterrent (BD) Marine Grade Finish (MGF) Optic Plate Painted to Match Fixture (OPP)
	Type 3 (T3)	48 (48L) 64 (64L)	530 (53)	4000K (40K)	347-480 (HV)	D90_T90_T120_QD 7" (DPS7)	White (WHT)	Nema 7-Pin Receptacle (PE7) Photocell + Receptacle (PCR) Receptacle + Shorting Cap (PER)
	Type 4 (T4)		700 (7)	5000K (50K)		Knuckle Mount (KM) Wall Mount (WM)	Silver (SVR)	FSP-211 with Motion Sensor (UNV Voltage) (FSP-20) *9'-20" Heights (FSP-40) *21'-40" Heights
	Type 5 (T5)		1050 (1)			Trunnion Mount (TM) *Standard finish is stainless steel Can be painted to match fixture	Black (BLK)	Surge Protector (10K) Quick Mount Bracket (QMB)
	Nema 2 24" Narrow Beam (N2)					Tennis Arm (TA) *See next page for Arm Configurations *For Round Pole, please specify RPA4 or RPA5	Graphite (GPH)	Retrofit Mount Bracket (RQMB) Round Pole Adaptor 3"- 4" Pole (RPA4) Round Pole Adaptor 5"- 6" Pole (RPA5)
Nema 3 30" Narrow Beam (N3)						Grey (GRY)	Rotated Optic Left (ROL) Rotated Optic Right (ROR)	
							Custom (CS)	Automotive House Side Shield (AHS) House Side Shield (HSS) *HSS not applicable with N2 - NEMA 24" Optics *HSS not applicable with N3 - NEMA 30" Optics

**\*\*MUST SPECIFY COLOR\*\***

**NV-1 -T4 -48L -7 -30K -UNV -WM -FINISH**

**ELECTRICAL**

- 120-277 Volts (UNV) or 347-480 Volts (HV)
- 0-10V dimming driver by Philips Advance
- Driver power factor at maximum load is  $\geq .95$ , THD maximum load is 15%
- All internal wiring UL certified for 600 VAC and 105°C
- All drivers, controls, and sensors housed in enclosed IP-65 compartment
- Lumileds Luxeon MX LED's
- CRI >70
- Color temperatures: 3000K, 4000K, 5000K

**OPTIONS**

- **BIRD DETERRANT (BD)**—offers effective and humane deterrent for larger bird species and provides cost-effective long-term solution to nuisance bird infestations and protect your property.
- **MARINE GRADE FINISH (MGF)**—A multi-step process creating protective finishing coat against harsh environments.
  - Chemically washed in a 5 stage cleaning system.
  - Pre-baked
  - Powder coated 3-5 mils of Zinc Rich Super Durable Polyester Primer.
  - 1-2 feet inside pole coverage top and bottom.
  - Oven Baked.
  - Finished Powder Coating of Super Durable Polyester Powder Coat 3-5 mil thickness.
- **SHIELDS (HSS, AHS)**—House Side Shield (HSS) is designed for full property line cut-off. Automotive House Side Shield (AHS) is a single-sided shield allowing partial cut-off on either side or front of luminaire.
- **ROUND POLE ADAPTER (RPA)**— When using round poles, specify Round Pole Adapter (RPA). Specify RPA4 when installing on 3"-4" round poles, and RPA5 when installing on 5"-6" round poles.

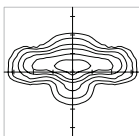
**CONTROLS**

- **FSP-211 (FSP-X)**—Passive infrared (PIR) sensor providing multi-level control based on motion/daylight contribution.
  - All control parameters adjustable via wireless configuration remote storing and transmitting sensor profiles.
  - FSP-20 mounting heights 9-20 feet
  - FSP-40 mounting heights 21-40 feet.
  - Includes 5 dimming event cycles, 0-10V dimming with motion sensing, reprogrammable in the field.
- **NEMA 7-PIN RECEPTACLE (PE7)**—An ANSI C136.41-2013 receptacle provides electrical and mechanical interconnection between photo control cell and luminaire. Dimming receptacle available two or four dimming contacts supports 0-10 VDC dimming methods or Digital Addressable Lighting Interface (DALI), providing reliable power interconnect.

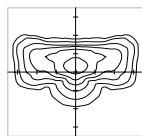
**OPTICS**

Silicone optics high photothermal stability and light output provides higher powered LEDs with minimized lumen depreciation LED life. UV and thermal stability with scratch resistance increases exterior application durability.

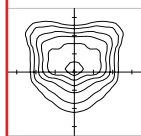
- IES Types



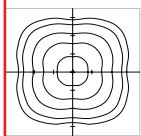
TYPE II (T2)



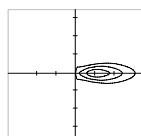
TYPE III (T3)



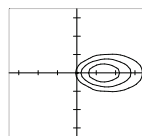
TYPE IV (T4)



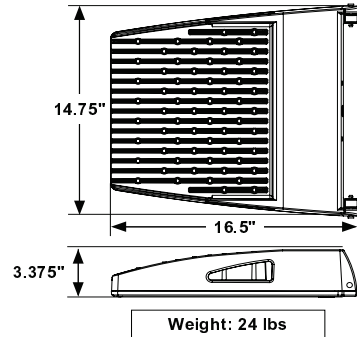
TYPE V (T5)



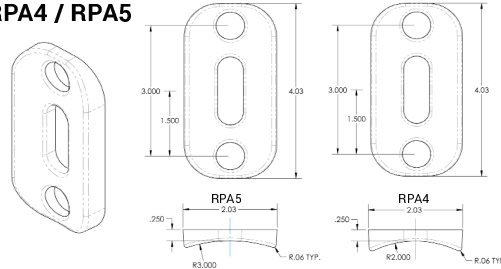
NEMA 2 (N2)



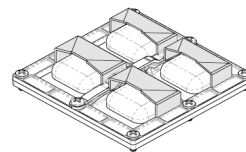
NEMA 3 (N3)



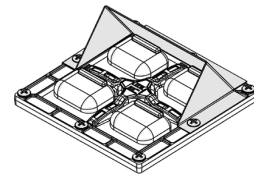
**RPA4 / RPA5**



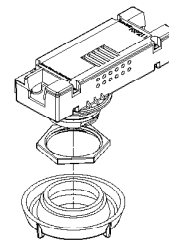
**HOUSE SIDE SHIELD**



**AUTOMOTIVE HOUSE SIDE SHIELD**



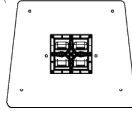
**FSP-211**



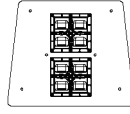
**OPTICAL CONFIGURATIONS**

Rotatable Optics (ROR) Rotated Right, (ROL) Rotated Left options available. Optics field and factory rotatable.

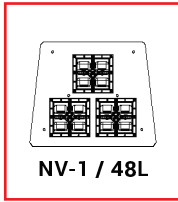
(OPP)



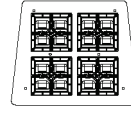
NV-1 / 16L



NV-1 / 32L



NV-1 / 48L



NV-1 / 64L

\* OPTIC PLATE PAINTED TO MATCH FIXTURE FINISH (OPP) – Optic Plate standard clear anodized, Grade 2. When (OPP) specified, Optic Plate finish will match fixture finish.

LUMENS																												
PART NUMBER	N2	LM/W	BUG	N3	LM/W	T2	LM/W	DLC	BUG	T3 HSS	LM/W	BUG	T3	LM/W	DLC	BUG	T4 HSS	LM/W	BUG	T4	LM/W	DLC	BUG	T5	LM/W	DLC	BUG	W
NV-1-16L-35-30K	1944	108	B2-U0-G0	2016	112	2209	117	P	B1-U0-G1	1134	63	B0-U0-G0	2106	117	P	B1-U0-G1	1116	62	B0-U0-G0	2187	116	P	B1-U0-G1	2124	118	P	B2-U0-G0	18
NV-1-16L-35-40K	2016	112	B2-U0-G0	2088	116	2268	126	P	B1-U0-G1	1206	67	B0-U0-G0	2286	127	P	B1-U0-G1	1188	66	B0-U0-G0	2250	125	P	B1-U0-G1	2304	128	P	B2-U0-G0	18
NV-1-16L-35-50K	2088	116	B2-U0-G0	2160	120	2376	132	P	B1-U0-G1	1278	71	B0-U0-G0	2394	133	P	B1-U0-G1	1260	70	B0-U0-G0	2358	131	P	B1-U0-G1	2412	134	P	B2-U0-G2	18
NV-1-16L-53-30K	3024	108	B3-U0-G1	3136	112	3192	114	P	B1-U0-G1	1764	63	B0-U0-G1	3220	115	P	B1-U0-G1	1736	62	B0-U0-G1	3119	113	P	B1-U0-G1	3248	116	P	B2-U0-G1	28
NV-1-16L-53-40K	3136	112	B3-U0-G1	3248	116	3472	124	P	B1-U0-G1	1876	67	B0-U0-G1	3472	124	P	B1-U0-G1	1848	66	B0-U0-G1	3444	123	P	B1-U0-G1	3500	125	P	B2-U0-G1	28
NV-1-16L-53-50K	3248	116	B3-U0-G1	3360	120	3612	129	P	B1-U0-G1	1988	71	B0-U0-G1	3640	130	P	B1-U0-G1	1960	70	B0-U0-G1	3584	128	P	B1-U0-G1	3668	131	P	B2-U0-G1	28
NV-1-16L-7-30K	3888	108	B3-U0-G1	4032	112	3960	110	P	B1-U0-G1	2268	63	B0-U0-G1	3960	110	P	B1-U0-G1	2232	62	B0-U0-G1	3973	109	P	B1-U0-G1	3996	111	P	B3-U0-G1	36
NV-1-16L-7-40K	4032	112	B3-U0-G1	4176	116	4428	123	P	B1-U0-G1	2412	67	B0-U0-G1	4284	119	P	B1-U0-G1	2376	66	B0-U0-G1	4212	117	P	B1-U0-G1	4320	120	P	B3-U0-G1	36
NV-1-16L-7-50K	4176	116	B3-U0-G1	4320	120	4644	129	P	B1-U0-G1	2556	71	B0-U0-G1	4500	125	P	B1-U0-G1	2520	70	B0-U0-G1	4428	123	P	B1-U0-G1	4500	125	P	B3-U0-G1	36
NV-1-16L-1-30K	6048	108	B3-U0-G1	6272	112	6160	110	S	B1-U0-G1	3528	63	B0-U0-G1	6384	114	P	B1-U0-G1	3472	62	B0-U0-G1	6232	112	P	B1-U0-G1	6440	115	P	B3-U0-G1	56
NV-1-16L-1-40K	6272	112	B3-U0-G1	6496	116	6832	122	P	B1-U0-G1	3752	67	B0-U0-G1	6888	123	P	B2-U0-G2	3696	66	B0-U0-G1	6776	121	P	B2-U0-G2	6944	124	P	B3-U0-G2	56
NV-1-16L-1-50K	6496	116	B4-U0-G1	6720	120	7168	128	P	B1-U0-G2	3976	71	B0-U0-G1	7224	129	P	B2-U0-G2	3920	70	B0-U0-G1	7112	127	P	B2-U0-G2	7280	130	P	B3-U0-G2	56
NV-1-32L-7-30K	7668	108	B4-U0-G1	7952	112	7810	110	S	B1-U0-G2	4473	63	B0-U0-G1	7810	110	S	B2-U0-G2	4402	62	B0-U0-G1	7739	109	S	B2-U0-G2	7881	111	S	B3-U0-G2	71
NV-1-32L-7-40K	7952	112	B4-U0-G1	8236	116	8017	127	P	B1-U0-G2	4757	67	B0-U0-G1	8449	119	P	B2-U0-G2	4686	66	B0-U0-G2	8307	117	P	B2-U0-G2	8520	120	P	B3-U0-G2	71
NV-1-32L-7-50K	8236	116	B4-U0-G1	8520	120	9159	129	P	B2-U0-G2	5041	71	B0-U0-G2	8875	125	P	B2-U0-G2	4970	70	B0-U0-G2	8733	123	P	B2-U0-G2	8946	126	P	B3-U0-G2	71
NV-1-32L-1-30K	11448	108	B4-U0-G1	11872	112	11660	110	S	B2-U0-G2	6678	63	B0-U0-G2	12084	114	S	B2-U0-G2	6572	62	B0-U0-G2	11820	112	S	B2-U0-G2	12190	115	S	B4-U0-G2	106
NV-1-32L-1-40K	11872	112	B4-U0-G1	12296	116	12932	122	P	B2-U0-G2	7102	67	B0-U0-G2	13038	123	P	B2-U0-G2	6996	66	B0-U0-G2	12826	121	P	B3-U0-G2	13144	124	P	B4-U0-G2	106
NV-1-32L-1-50K	12296	116	B4-U0-G1	12720	120	13568	128	P	B2-U0-G2	7526	71	B0-U0-G2	13674	129	P	B3-U0-G3	7420	70	B0-U0-G2	13462	127	P	B3-U0-G3	13780	130	P	B4-U0-G2	106
NV-1-48L-7-30K	11232	108	B4-U0-G1	11648	112	11440	110	S	B2-U0-G2	6552	63	B0-U0-G2	11440	110	S	B2-U0-G2	6448	62	B0-U0-G2	11336	109	S	B2-U0-G2	11544	111	S	B4-U0-G2	104
NV-1-48L-7-40K	11648	112	B4-U0-G1	12064	116	13208	127	P	B2-U0-G2	6968	67	B0-U0-G2	12376	119	P	B2-U0-G2	6864	66	B0-U0-G2	12168	117	P	B2-U0-G2	12480	120	P	B4-U0-G2	104
NV-1-48L-7-50K	12064	116	B4-U0-G1	12480	120	13520	130	P	B2-U0-G2	7384	71	B0-U0-G2	13000	125	P	B3-U0-G3	7280	70	B0-U0-G2	12792	123	P	B2-U0-G2	13104	126	P	B4-U0-G2	104
NV-1-48L-1-30K	16848	108	B5-U0-G1	17472	112	17160	110	S	B3-U0-G3	9828	63	B1-U0-G2	17784	114	S	B3-U0-G3	9672	62	B1-U0-G2	17472	112	S	B3-U0-G3	17940	115	S	B4-U0-G2	156
NV-1-48L-1-40K	17472	112	B5-U0-G1	18096	116	19032	122	P	B3-U0-G3	10452	67	B1-U0-G2	19188	123	P	B3-U0-G3	10296	66	B1-U0-G2	18876	121	P	B3-U0-G3	19344	124	P	B5-U0-G3	156
NV-1-48L-1-50K	18096	116	B5-U0-G1	18720	120	19968	128	P	B3-U0-G3	11076	71	B1-U0-G2	20124	129	P	B3-U0-G3	10920	70	B1-U0-G2	19812	127	P	B3-U0-G3	20280	130	P	B5-U0-G3	156
NV-1-64L-7-30K	14688	108	B5-U0-G1	15232	112	14960	110	S	B2-U0-G2	8568	63	B0-U0-G2	14960	110	S	B3-U0-G3	8432	62	B1-U0-G2	14824	109	S	B3-U0-G3	15096	111	S	B4-U0-G2	136
NV-1-64L-7-40K	15232	112	B5-U0-G1	15776	116	17272	127	P	B3-U0-G3	9112	67	B0-U0-G2	16184	119	P	B3-U0-G3	8976	66	B1-U0-G2	15912	117	P	B3-U0-G3	16320	120	P	B4-U0-G2	136
NV-1-64L-7-50K	15776	116	B5-U0-G1	16320	120	17680	130	P	B3-U0-G3	9656	71	B1-U0-G2	17000	125	P	B3-U0-G3	9520	70	B1-U0-G2	16728	123	P	B3-U0-G3	17136	126	P	B4-U0-G2	136
NV-1-64L-1-30K	22140	108	B5-U0-G1	22960	112	22550	110	S	B3-U0-G3	12915	63	B1-U0-G2	23370	114	S	B3-U0-G3	12710	62	B1-U0-G3	22960	112	S	B3-U0-G3	23575	115	S	B5-U0-G3	205
NV-1-64L-1-40K	22960	112	B5-U0-G1	23780	116	25010	122	P	B3-U0-G3	13735	67	B1-U0-G3	25215	123	P	B3-U0-G3	13530	66	B1-U0-G3	24805	121	P	B3-U0-G4	25420	124	P	B5-U0-G3	205
NV-1-64L-1-50K	23780	116	B5-U0-G1	24600	120	26240	128	P	B3-U0-G3	14555	71	B1-U0-G3	26445	129	P	B3-U0-G3	14350	70	B1-U0-G3	26035	127	P	B3-U0-G4	26650	130	P	B5-U0-G3	205

\*DLC S= Standard  
P= Premium

**EPA**

EPA	SGL	D90	D180	T90	T120	QD
NV-1-DP	0.46	1.14	0.92	1.34	1.37	1.34
NV-1-KM	0.54	N/A	1.08	N/A	N/A	N/A
NV-1-SA	0.75	1.29	1.50	1.99	2.05	1.99

**L70/L90 DATA**

TEMP.	NV-1	
	L70 (64L-1050mA)	L90 (64L-1050mA)
25°C	483,000	160,000

**DPX ARM LENGTH**

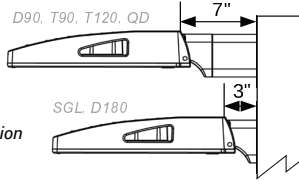
DPX ARM LENGTH	SGL	D90	D180	T90	T120	QD
NV-1	3"	7"	3"	7"	7"	7"

**MOUNTING OPTIONS**

**DIRECT POLE (DP)**

Standard mounting arm is extruded aluminum in lengths of 3" and 7".

\*Arm lengths may vary depending on configuration



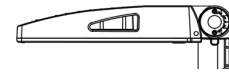
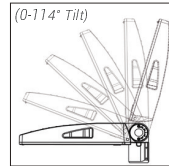
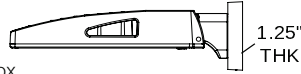
**TENNIS ARM (TA)**

Steel fitter slips over 3.5" x 1.5" rectangular arm.

\*See Tennis Arm Spec Sheet for details

**WALL MOUNT (WM)**

Cast Aluminum Plate for direct wall mount. 3" extruded aluminum arm mounts directly to a cast wall mount box.



**KNUCKLE MOUNT (KM)**

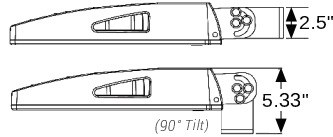
Die Cast Knuckle great for adjustable installation on 2-3/8" OD vertical or horizontal tenon.

- Max Uptilt of 114 degrees
- Adjustable in 6 degree increments

**TRUNNION MOUNT (TM)**

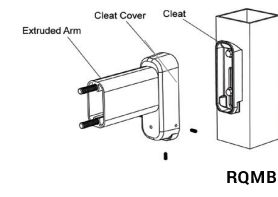
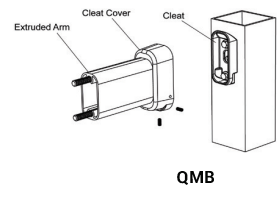
Steel, bolt-on-mounting for adjustable installation with a maximum uplift of 90 degrees.

\*Unpainted stainless steel is standard



**OPTIONAL**

Optional Cast Aluminum Bracket, **Quick Mount Bracket (QMB)** and **Retrofit Quick Mount Bracket (RQMB)**, designed for quick mounting on Direct Square or Round Poles. Cleat mounts directly to pole for easily hung fixtures.

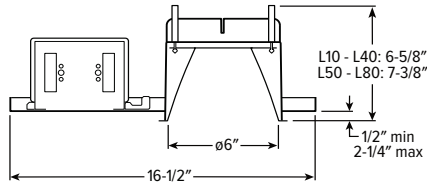
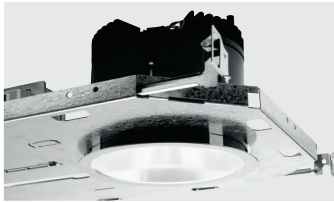


# SET JET HANGAR

E

Notes:

## 6DR LED 6" Downlight – Round



CATALOG #: \_\_\_\_\_

TYPE: \_\_\_\_\_

PROJECT: \_\_\_\_\_

### NEW CONSTRUCTION AND REMODEL FEATURES

#### TrimLock®

- Innovative TrimLock reflector retention system ensures trim remains flush with ceiling plane
- Available on QuickShip

#### SPECIFICATIONS

- HOUSING** – Die-cast aluminum trim housing with forged aluminum heat sink. Galvanized steel splice compartment with driver mounting plate/enclosure. Swing-out mounting arms field adjust for ceiling thickness from 1/2" – 2-1/4".
- TRIMLOCK** – Innovative TrimLock reflector retention system ensures the trim remains flush with the ceiling plane.
- OPEN REFLECTOR** – Low-iridescent anodized aluminum. Clear semi-specular finish standard.
- LENSED TRIM** – Die-cast aluminum frame with micro-prismatic, tempered glass lens.
- ELECTRICAL** – High-performance Class 2 C.O.B. LED array. Modular quick-connect plug for easy field-connection of LED light assembly to driver. Reported L70>55,000 hours. Reported L90>55,000 hours. Estimated L70 = 200,000 hours.
- MOUNTING** – Recessed. 20 ga. galvanized steel mounting pan for new construction or IC-rated enclosure. Remodel kit option includes receiver bracket hardware. Minimum 24" O.C. marked spacing required for L60 - L80 lumen packages.

**6DR-TL -L10 -8 30 -DIM -UNV -O -W -OF -CS -WET/CC -N -F1**

#### HOUSING

SERIES	LUMENS <sup>[1]</sup>	CRI	CCT	OPTIONS	CONTROL <sup>[2]</sup>	VOLTAGE
<b>6DR-TL</b> TrimLock	<b>L10</b> 1,000lm <sup>[1]</sup> <b>L15</b> 1,500lm <b>L20</b> 2,000lm <b>L30</b> 3,000lm <b>L40</b> 4,000lm <b>L50</b> 5,000lm <b>L60</b> 6,000lm <b>L70</b> 7,000lm <b>L80</b> 8,000lm	<b>8 80</b> 9 90 <sup>[14]</sup>	<b>27 2700K</b> <b>30 3000K</b> <b>35 3500K</b> <b>40 4000K</b> <b>50 5000K</b>	<b>SCA__</b> Sloped ceiling adapter <sup>[5]</sup> <b>ATH</b> Airtight construction <b>F</b> Fuse <b>EM/7W</b> 7-watt emergency battery <sup>[7]</sup> <b>EM/10W</b> 10-watt emergency battery <sup>[8]</sup> <b>EM/10W/RTS</b> 10-watt emergency battery with regressed test switch <sup>[9]</sup> <b>CP</b> Chicago plenum (CCEA) <sup>[10]</sup> <b>SDT</b> Stepdown transformer <sup>[11]</sup>	<b>DIM</b> Dimming driver, 0-10V <b>DIM1</b> 1% Dimming driver, 0-10V	<b>UNV</b> 120-277V <b>347</b> 347V <sup>[16]</sup>

#### TRIM<sup>[12]</sup>

TRIM TYPE	DISTRIBUTION <sup>[13]</sup>	FLANGE TYPE	REFLECTOR FINISH	TRIM OPTIONS
<b>O</b> Open reflector	<b>W</b> <b>Wide</b> <b>65°</b> Open 55° Flush 55° Regressed	<b>OF</b> 1/2" standard flange <b>SF</b> 1/4" mud-in flange <sup>[19]</sup>	<b>Open trim types</b> <b>CS</b> Clear semi-specular anodize <b>SG</b> Satin-grow anodize <b>GD</b> Gold anodize <b>CG</b> Champagne gold anodize <b>PW</b> Pewter anodize <b>SPC</b> Clear specular anodize <b>RG</b> Rose gold anodize <b>WH</b> White texture powder coat <b>BL</b> Black texture powder coat	<b>MWT</b> Textured white trim flange <sup>[20]</sup> <b>IP</b> IP65 rated trim <sup>[21]</sup> <b>AD</b> Diffuse acrylic lens <sup>[22]</sup> <b>PD</b> Diffuse 1/8" polycarbonate lens <sup>[23]</sup> <b>TD</b> Diffuse polycarbonate lens media at top of open reflector <sup>[24]</sup> <b>WET/CC</b> Wet location, covered ceiling listed <sup>[25]</sup> <b>AM</b> Anti-microbial <sup>[26]</sup>
<b>L</b> Flush lens <b>R</b> Regressed lens <b>A</b> Angled lens <sup>[14]</sup> <b>S</b> Non-conductive flush lens for shower applications <sup>[15]</sup>	<b>M</b> Medium <sup>[16]</sup> 35° Open 35° Flush 35° Regressed <b>N</b> Narrow <sup>[17]</sup> 10° Open 25° Flush 25° Regressed <b>WW</b> Wall wash <sup>[18]</sup>		<b>Lens trim types</b> <b>CS</b> Clear semi-specular powder coat <b>WH</b> White texture powder coat <b>BL</b> Black texture powder coat <b>MB</b> Black texture splay with white flange <sup>[27]</sup>	

#### MOUNTING

MOUNTING TYPE <sup>[28]</sup>	MOUNTING HARDWARE <sup>[29]</sup>
<b>N</b> Open pan for new construction	<b>F1</b> Integral 2-position fixed pan bracket, universal bar hanger included <sup>[32]</sup>
<b>I</b> IC-rated enclosure for new construction <sup>[30]</sup>	<b>BA1</b> Adjustable butterfly pan bracket, bar hanger not included <sup>[33]</sup>
<b>R</b> Remodel kit <sup>[31]</sup>	<b>CA1</b> Adjustable caterpillar pan bracket, universal bar hanger included <sup>[34]</sup>

#### NOTES

- Lumen output based on O trim type. W distribution and CS finish, 3500K/80CRI. Actual lumens may vary +/-5%. See page 2 for FIXTURE PERFORMANCE DATA.
- See page 3 for ADDITIONAL CONTROL OPTIONS.
- Not available with EM/10W emergency batteries.
- Extended lead times may apply. Consult factory for availability.
- 11-1/2" aperture, specify degrees of slope in 5° increments, 05°-30°. See page 3 for SLOPED CEILING ADAPTOR DETAILS. Not available with ATH option. N Mounting Type only. Not available with WET/CC. Painted white. Other colors available, consult factory.
- Not available with EM batteries or DMX controls.
- N and R Mounting Types only. Not available with ATH or IP options.
- N and R Mounting Types only. Not available with ATH or IP options.
- Not available with WET/CC, ATH or IP options. N and R Mounting Types only. See page 5 for EM/10W/RTS DETAILS.

- I Mounting Type required.
- May be required for 347V, see product builder at [hew.com/product-builder](http://hew.com/product-builder).
- Trim ships separately.
- Beam angle based on CS or WH reflector finish. See page 2 for FIXTURE PERFORMANCE DATA.
- Available with WW Distribution only.
- W Distribution, OF Flange Type and WH Reflector Finish only. Standard with AD diffuse acrylic lens. IP and WET/CC options standard.
- Not available with lumen stops L50 and higher when specified with flush or regressed trim types.
- Not available with lumen stops L50 and higher when specified with flush or regressed trim types.
- O and A Trim Types only.
- For use with mud-in plaster construction only, supplied with mud flange installation kit. See page 4 for FLANGE TYPE DETAILS. Not available with ATH or IP options.
- Not available with WH Reflector Finish, L or S Trim Types.

- L and R trim types only.
- Not available with O trim type. W distribution only.
- Not available with O trim type. W distribution only.
- O Trim Type only. WET/CC standard. L50 lumen package max.
- L50 lumen package max with O Trim Type.
- WH and BL Reflector Finishes only. Not available with S Trim Type.
- R Trim Type only. Not available with MWT.
- Mounting hardware required (N and I only), ordered separately, see MOUNTING HARDWARE ordering info. See page 4 for MOUNTING TYPE DETAILS.
- Additional mounting hardware options available. See page 5 for MOUNTING HARDWARE DETAILS.
- L30 lumen package max.
- Also used in new construction sheetrock ceilings.
- N and I Mounting Types only. I Mounting requires external brackets.
- N Mounting Type only.
- N Mounting Type only.



Available with BIOS® consult factory



Notes:

# 6DR LED

## 6" Downlight – Round

### FIXTURE PERFORMANCE DATA

#### OPEN REFLECTOR TRIM TYPE

	DIST.	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
L10	W	1014	8.7	116.9
	M	982	8.7	113.2
	N	1003	8.7	115.7
L15	W	1497	13.8	108.6
	M	1495	13.8	108.4
	N	1528	13.8	110.8
L20	W	1988	19.0	104.6
	M	1983	19.1	103.8
	N	2026	19.1	106.1
L30	W	3062	26.9	114.0
	M	3003	26.9	111.8
	N	3000	26.9	111.7
L40	W	4094	36.5	112.2
	M	4016	36.4	110.3
	N	4011	36.4	110.2
L50	W	5014	43.9	114.1
	M	4935	43.9	112.3
	N	5047	43.9	114.9
L60	W	6043	54.0	111.9
	M	5948	54.0	110.1
	N	6083	54.0	112.6
L70	W	7008	67.8	103.3
	M	6898	67.8	101.7
	N	7055	67.8	104.0
L80	W	8018	79.8	100.5
	M	7891	79.8	98.9
	N	8071	79.8	101.2

#### FLUSH LENS TRIM TYPE

	DIST.	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
L10	W	774	8.7	89.2
	M	910	8.7	104.9
	N	909	8.7	104.8
L15	W	1178	13.8	85.4
	M	1385	13.8	100.4
	N	1384	13.8	100.4
L20	W	1562	19.5	80.1
	M	1837	19.1	96.1
	N	1836	19.5	94.2
L30	W	2335	26.9	86.9
	M	2782	26.9	103.6
	N	2718	26.9	101.2
L40	W	3122	36.5	85.5
	M	3720	36.4	102.2
	N	3635	36.4	99.9
L50	W	3824	43.9	87.0
	M	-	-	-
	N	-	-	-
L60	W	4609	54.0	85.4
	M	-	-	-
	N	-	-	-
L70	W	5345	67.8	78.8
	M	-	-	-
	N	-	-	-
L80	W	6115	79.8	76.7
	M	-	-	-
	N	-	-	-

#### REGRESSED LENS TRIM TYPE

	DIST.	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
L10	W	716	8.7	82.5
	M	883	8.7	101.7
	N	897	8.7	103.4
L15	W	1090	13.8	79.0
	M	1344	13.8	97.4
	N	1366	13.8	99.1
L20	W	1445	19.5	74.1
	M	1782	19.1	93.3
	N	1812	19.5	92.9
L30	W	2160	26.9	80.4
	M	2699	26.9	100.5
	N	2683	26.9	99.9
L40	W	2889	36.5	79.1
	M	3609	36.4	99.1
	N	3587	36.4	98.6
L50	W	3537	43.9	80.5
	M	-	-	-
	N	-	-	-
L60	W	4264	54.0	79.0
	M	-	-	-
	N	-	-	-
L70	W	4945	67.8	72.9
	M	-	-	-
	N	-	-	-
L80	W	5657	79.8	70.9
	M	-	-	-
	N	-	-	-

#### MULTIPLIER TABLES

	COLOR TEMPERATURE	
	CCT	CONVERSION FACTOR
80 CRI	2700K	0.92
	3000K	0.98
	3500K	1.00
	4000K	1.01
	5000K	1.02
90 CRI	2700K	0.76
	3000K	0.79
	3500K	0.82
	4000K	0.84
	5000K	0.88

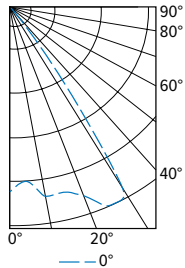
	REFLECTOR FINISH	
	CATALOG NUMBER	CONVERSION FACTOR
O TRIM	CS	1.00
	SG <sup>1</sup>	0.92
	GD	0.93
	CG	0.96
	PW	0.86
	SPC	1.02
	RG	0.88
	WH <sup>1</sup>	0.89
BL <sup>1</sup>	0.47	
R TRIM	WH	1.00
	CS	0.98
	BL	0.79

TRIM	
CATALOG NUMBER	CONVERSION FACTOR
S	0.85
AD	0.85
PD	0.85
TD	0.75
WET/CC <sup>2</sup>	0.85

- Distribution will also be affected, consult factory.
  - Use multiplier when specified with O Trim Type.
- Photometrics tested in accordance with IESNA LM-79. Results shown are based on 25°C ambient temperature.
  - Wattage shown is based on 120V input.
  - Results based on 3500K, 80 CRI, actual lumens may vary +/-5%
  - Use multiplier tables to calculate additional options.

#### PHOTOMETRY

6DR-TL-L20/835-DIM-UNV-OW-OF-CS Report #: 20687; 12/12/18 | Total Luminaire Output: 1988 lumens; 19.0 Watts | Efficacy: 104.6 lm/W | 82.9 CRI; 3457K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
		0°	
	0	1672	
	5	1579	151
	15	1735	492
	25	1982	917
	35	604	380
	45	46	36
	55	13	12
	65	2	2
	75	0	0
	85	0	0
	90	0	0

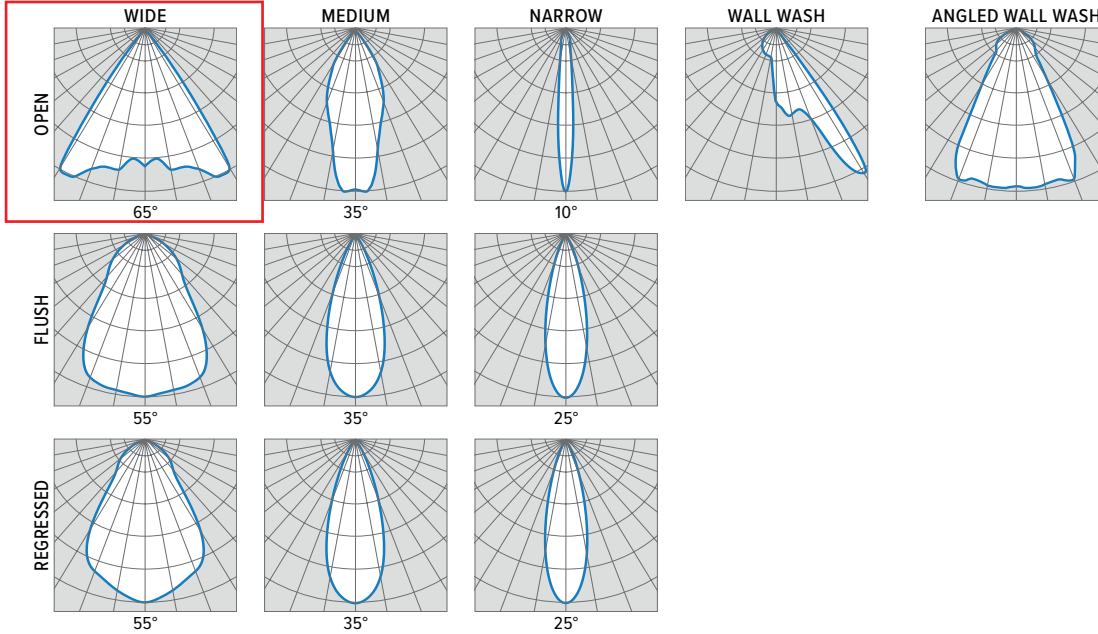
LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	1939	98
	0 - 60	1987	100
	0 - 90	1988	100
	0 - 180	1988	100



Notes:

# 6DR LED

## 6" Downlight – Round



### ADDITIONAL CONTROL OPTIONS

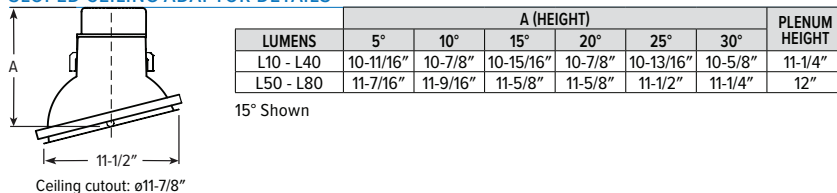
Lumen restrictions apply: L40 max for DMX driver, L40 max for Lutron drivers, L50 max for ELDO drivers, L60 max for DIM LINE driver. R Mounting Type not available with DMX or FCJS controls. R Mounting Type requires 12" minimum plenum depth when specified with VRF/DBI controls. 347V may require stepdown transformer, see product builder at [hew.com/product-builder](http://hew.com/product-builder).

CATALOG NUMBER	DESCRIPTION
DIM	Dimming driver prewired for 0-10V low voltage applications
DIM1	1% dimming driver prewired for 0-10V low voltage applications
DIM LINE	Line voltage dimming driver (TRIAC and ELV compatible at 120V only)
DMX	0.1% dimming driver for DMX controls
LTE LINE	Lutron Hi-lume 1% 2-wire dimming driver forward phase line voltage controls (120V only)
LDE1	Lutron Hi-lume 1% EcoSystem dimming LED driver
VRF/DBI/LDE1	Lutron Vive integral fixture control, RF only (DFCSJ-OEM-RF), Lutron Hi-lume 1% EcoSystem dimming LED driver, and digital link interface
FCJS/DIM	Lutron Vive PowPak wireless fixture control with dimming driver
FCJS/DIM1	Lutron Vive PowPak wireless fixture control with 1% dimming driver
ELDO SOLOB	EldoLED Solodrive, 0.1% dimming driver for 0-10V controls
ELDO SOLOB DALI	EldoLED Solodrive, 0.1% dimming driver for DALI controls
ELDO ECO1	EldoLED Ecodrive, 1% dimming driver for 0-10V controls
ELDO ECO1 DALI	EldoLED Ecodrive, 1% dimming driver for DALI controls

### TRIMLOCK DETAILS



### SLOPED CEILING ADAPTOR DETAILS

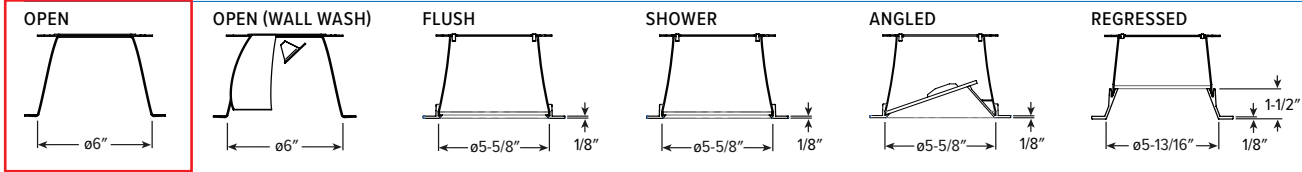


Notes:

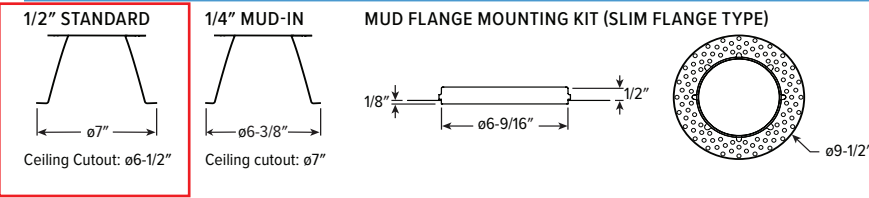
# 6DR LED

## 6" Downlight – Round

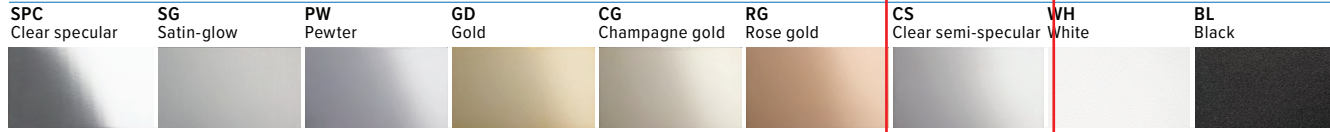
### TRIM TYPE DETAILS



### FLANGE TYPE DETAILS



### REFLECTOR FINISH DETAILS



### MOUNTING TYPE DETAILS

#### NEW CONSTRUCTION

#### IC-RATED

#### REMODEL

Cross Section

Receiver Bracket

Driver and Junction Box

LUMENS	LENGTH					
	A	B	C	D	E	F
L10 - L20	15-3/16"	16"	6-3/8"	12-1/8"	9-1/2"	6-1/16"
L30	16-5/8"	17-1/2"	7-7/8"	14"	10-1/4"	7"



# SET JET HANGAR

# E

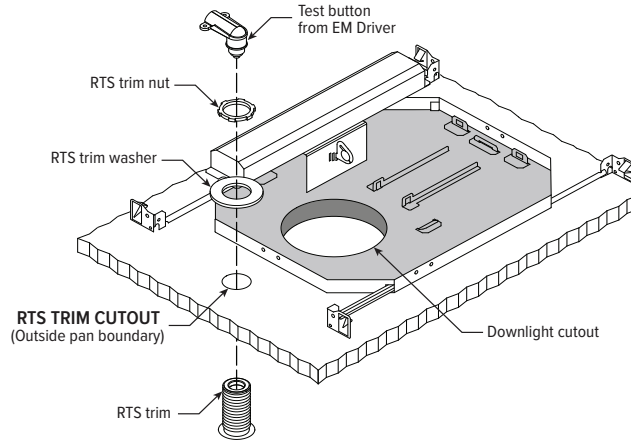
Notes:

## 6DR LED 6" Downlight – Round

### EM/10W/RTS DETAILS

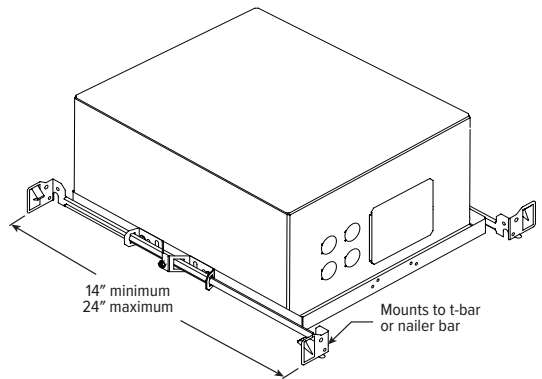
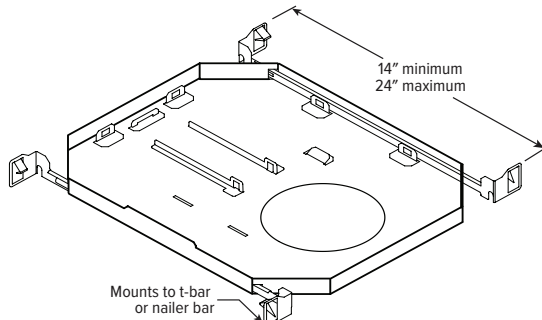


Shown Installed



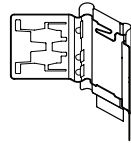
### MOUNTING HARDWARE DETAILS

**F1** Integral 2-position fixed pan bracket, universal bar hanger included

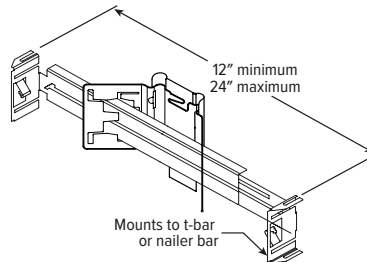


F1 with I Mounting Type

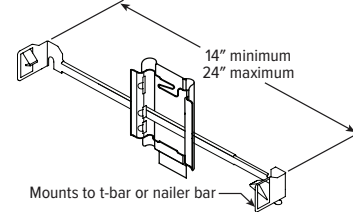
**BA1** Adjustable butterfly pan bracket, bar hanger not included (N Mounting Type only)



**BA2** Adjustable butterfly pan bracket, heavy-duty universal bar hanger included (N Mounting Type only)



**CA1** Adjustable caterpillar pan bracket, universal bar hanger included (N Mounting Type only)



**CA2** Adjustable caterpillar pan bracket, t-bar hanger included (N Mounting Type only)

