

DEVELOPMENT REVIEW BOARD REPORT



Meeting Date: July 7, 2022
General Plan Element: *Character and Design*
General Plan Goal: *Foster quality design that enhances Scottsdale as a unique southwestern desert community.*

ACTION

New Corporate Hangar for Set Jet 31-DR-2021 | Request for approval of a site plan, landscape plan, and building elevations for an approximately 16,270 square foot hangar and office building.

SUMMARY

Staff Recommendation

Approve, subject to the attached stipulations (Attachment #6)

Items for Consideration

- Conformance with Development Review Board Criteria
- Integration of Sensitive Design Principles
- Airport hangar building within Scottsdale Airpark
- Project will utilize taxiway access
- Architectural design utilizes muted tones
- No community input received as of the date of this report

BACKGROUND

Location: 15208 N. 75th Street

Zoning: Industrial Park (I-1)

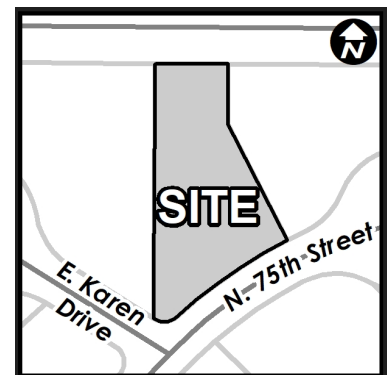
Adjacent Uses

North: Airport taxiway

East: Office and warehouse building, zoned I-1

South: Multi-tenant office building, zoned I-1

West: Multi-tenant office building, zoned I-1



Property Owner

Set Jet, LLC

Applicant

Jim Elson,
(602) 903-5311

Architect/Designer

Jim Elson

Engineer

Four Peaks Design Group

DEVELOPMENT PROPOSAL

The applicant is requesting design approval of a new one-story, 16,270 square foot aircraft hangar building, with associated office, lobby, and storage space. The proposed building is situated against the west property line with aircraft staging to the north, adjacent to the airport taxiway, gated vehicular access to the east, and parking and landscaping to the south adjacent to the N. 75th Street frontage. Site plan includes two vehicular driveways onto the site which provide access to the required parking spaces, refuse, central building lobby, and patio area. The building architecture is composed of concrete tilt panels, warm gray colors, and accent bands.

Development Review Board Criteria

Staff confirms that the development proposal generally meets the applicable Development Review Board Criteria. For a detailed analysis of the Criteria, please see Attachment #4.

STAFF RECOMMENDED ACTION

Staff recommends that the Development Review Board approve the New Corporate Hangar for Set Jet development proposal per the attached stipulations, finding that the Character and Design Element of the General Plan and Development Review Board Criteria have been met.

RESPONSIBLE DEPARTMENTS

Planning and Development Services
Current Planning Services

STAFF CONTACTS


Katie Posler
Senior Planner
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APPROVED BY


Katie Posler, Senior Planner, Report Author

6/22/2022

Date


Brad Carr, AICP, LEED-AP, Planning & Development Area Manager
Development Review Board Liaison
Phone: 480-312-7713 Email: bcarr@scottsdaleaz.gov

6/28/2022

Date


For

6/28/2022

Date

Erin Perreault, Interim Executive Director
Planning, Economic Development, and Tourism
Phone: 480-312-7093 Email: eperreault@scottsdaleaz.gov

ATTACHMENTS

1. Context Aerial
2. Close-up Aerial
3. Applicant's Narrative
4. Development Review Board Criteria Analysis
5. Development Information
6. Stipulations / Zoning Ordinance Requirements
7. Site Plan
8. Open Space Plan
9. Landscape Plan
10. Building Elevations
11. Perspectives
12. Materials and Colors Board
13. Electrical Site Plan
14. Exterior Photometrics Plan
15. Exterior Lighting Cutsheets
16. Zoning Map
17. Community Notification Map



Context Aerial

31-DR-2021



Close-up Aerial

31-DR-2021

Project Narrative

Set Jet

Project Description:

Set Jet is a Membership based private jet charter program, available exclusively for its security pre-screened and approved Members. Membership is available to a limited number of approved members in each city. Set Jet facilitates private jet air travel for its group of successful entrepreneurs with decades of diverse marketing and aviation experience.

This Hangar will be used in conjunction with Set Jet's main Facility located at 15011 N. 75th Street and will house their Aircraft. The Members will be transported to the Hangar from their Headquarters one block to the south. A lobby and aviation offices are located at the front of the Hangar. Access to the parking and staging area is controlled and secured by rolling gates

Site & Building Design:

The design of the proposed Building is characterized as a minimalist aesthetic with natural concrete tilt slab construction of the exterior walls.

The lobby is protected from solar heat gain with a overhang. Glazing is graylite 14, insulated, low-e glass in black anodized, butt glazed, store front system.

Site planning, landscape design and design elements and materials are further described under subsequent Sections in this **Project Narrative**.

Conformance with the Scottsdale Sensitive Design principles

- 1. The design character of any area should be enhanced and strengthened by new development.***

The building is compatible with other existing buildings in the North Scottsdale Airpark Unit No. 3.

- 2. Development, through appropriate siting and orientation of buildings, should recognize and preserve established major vistas, as well as protect natural features.***

The buildings are designed to orient the office areas to the south and provide views of the landscape area along the street frontage

- 3. Development should be sensitive to existing topography and landscaping.***

The building is located on Lot 67 in the Thunderbird Industrial Airpark Unit No. 3 and is one of the remaining undeveloped taxiway lots in the Airpark. The lot is relatively flat with no existing vegetation or features.

Development should protect the character of the Sonoran desert by preserving and restoring natural habitats and ecological processes.

The lot is relatively flat with no existing vegetation or features.

- 4. The design of the public realm, including streetscapes, parks, plazas and civic amenities, is an opportunity to provide identity to the community and to convey its design expectations***

The building connects with 75th Street with a sidewalk at the south of the parking lot and has a patio area south of the lobby that will be used for staff and members.

- 5. Developments should integrate alternative modes of transportation, including bicycles and bus access, within the pedestrian network that encourage social contact and interaction within the community.***

Transportation of the Members to the Set Jet Hangar will be by carts from their Corporate Offices & Member Lobby at 15011 N 75th St. (approx.. 1 block from the Hangar)

- 6. *Development should show consideration for the pedestrian by providing landscaping and shading elements as well as inviting access connections to adjacent developments.***

The building fronts on 75th Street with a sidewalk at the south of the Lobby and has a patio area south east of the lobby that will be used for staff and Members

- 7. *Buildings should be designed with a logical hierarchy of masses.***

The main entry is located adjacent to a large patio for staff and members and has a large overhang that identifies the entry. The mass of the office elements transition to the hangar mass and reduce the scale of the building.

- 8. *The design of the built environment should respond to the desert environment:***

Large overhangs protect the office glazed areas which are oriented south.

- 9. *Developments should strive to incorporate sustainable and healthy building practices and products.***

In addition to providing strong massing, orientation and views, the use of materials such as concrete and steel. Local products are anticipated to be used in the construction.

- 10. *Landscape design should respond to the desert environment by utilizing a variety of mature landscape materials indigenous to the arid region.***

Major trees, cacti and shrubs are indigenous plant materials. Irrigation will be a drip system that will reduce the water requirements.

11. Site design should incorporate techniques for efficient water use by providing desert adapted landscaping and preserving native plants.

Major trees, cacti and shrubs are indigenous plant materials. Irrigation will be a drip system that will reduce the water requirements.

12. The extent and quality of lighting should be integrally designed as part of the built environment.

The lighting within the project will be integrated into the building aesthetic and provide outdoor pedestrian spaces adequate, secure lighting while avoiding glare to comply with the dark sky Ordinance. All of the lighting will use LED fixtures.

13. Signage should consider the distinctive qualities and character of the surrounding context in terms of size, color, location and illumination.

Signage will be in harmony with the character, scale and context of the building.

Conformance with the Scottsdale Office Design Guidelines

1. The design of office buildings should incorporate passive architectural solutions to east, south, and west faces of buildings to limit solar exposure and resulting heat gain.

Glazing is located along the south wall of the Lobby/Office to reduce solar heat gain with a recessed overhang

2. The windows (void) to wall (mass) ratio of a typical multi-story professional/business office building should not exceed 50:50 and should not be less than 70:30.

Windows are strategically located to provide views for the Lobby/office areas to the landscape frontage area.

- 3. The use of horizontal window/wall banding treatments should be limited and may be inappropriate in some settings.***

The various building elements are expressed with different materials and offset to provide a logical transition of the material change.

- 4. The use of highly reflective, polished, or glossy materials should be limited and may be inappropriate in some contexts.***

The basic buildings material is concrete tilt that will be left natural. Glazing at the second floor offices is protected with generous overhangs and will be graylite 14, insulated, low-e glass in black anodized, butt glazed, store front system.

- 5. The building mechanical system, as it might affect the aesthetics and architectural composition of a building, should be carefully considered in early phases of design.***

The mechanical system for the building will be rooftop package units. All mechanical units are screened by parapet walls.

- 6. Where rooftops are viewed at close range from higher adjacent ground, roofing materials and color should be toward darker tones and kept dull and muted.***

None of the rooftops are visible from adjacent buildings.

- 7. The exterior design of a building should reveal where possible differences in its internal functions as expressions of height, massing, and composition of the elevation.***

The main entry is located adjacent to a large patio for staff and members and has a large overhang that identifies the entry. The mass of the office elements transition to the hangar mass and reduce the scale of the building.

- 8. All industrial buildings should incorporate sufficient architectural detail.***

NOT APPLICABLE.

- 9. The permanent use of prefabricated metal buildings is generally discouraged.***

NOT APPLICABLE.

- 10. Industrial space should incorporate window openings if possible. Consider translucent glass for the diffused quality of light it provides.***

Clerestory windows are provided along the east of the warehouse area.

Conformance with the Scottsdale Lighting Design Guidelines

- 1. The city places a high value on lighting designs and technologies that are energy efficient and sensitive to their surrounding context.***

All lighting for this Project will be L.E.D. Reference the Site Lighting and Fixture Schedule and Cut Sheet for exterior lighting

- 2. Lighting should provide a sense of personal safety in active areas of the site; allow for an even distribution of illumination in commonly used vehicular and pedestrian areas; and highlight architectural features of significance and meaning during nighttime hours.***

All lighting for this Project is located at pedestrian areas or for security at the warehouse service drives and is directed away from adjacent properties.

- 3. High-pressure-sodium (HPS) is the preferred light source for most large-scale projects. The preferred light source for smaller scale applications include linear fluorescent (RE170 series, triple-tube 4-pin) compact fluorescent, induction, and LED lamps.***

All proposed lighting is L.E.D.

- 4. Incandescent and halogen sources are discouraged in all but the most unique applications.***

All proposed lighting is L.E.D.

- 5. The design of lighting systems should anticipate lighting levels that will vary depending on building use, hours of operation, occupancy, and seasonal changes, and operate for only the minimum number of hours required.***

Reference the Site Lighting and Fixture Schedule and Cut Sheet for exterior lighting

- 6. Recommended light level guidelines and uniformity ratios established in the Illuminating Engineering Society of North America (IESNA) Lighting Requirements should be used, along with predominant lighting characteristics of the surrounding area when determining appropriate lighting design solutions.***

Reference the Site Lighting and Fixture Schedule and Cut Sheet for exterior lighting

- 7. Light glare or excess brightness should be minimized. Light trespass should be controlled by shielding or aiming fixtures away from adjacent uses.***

All lighting is shielded and directed downward. Light fixtures located at the warehouse access drives are wall mounted on the building and directed downward. Reference the Site Lighting and Fixture Schedule and Cut Sheet for exterior lighting

- 8. Architectural and landscape lighting should only be used to highlight special features and to embellish the lighting levels of ground level pedestrian areas.***

Not applicable. Not used for this Project.

9. Limited low voltage lighting of landscape features and plant material are acceptable when associated with pedestrian spaces and site entrance.

Not applicable. Not used for this Project.

Design Review Board Criteria

Sec. 1.904. - Criteria.

In considering any application for development, the Development Review Board shall be guided by the following criteria:

1. The Board shall examine the design and theme of the application for consistency with the design and character components of the applicable guidelines, development standards, Design Standards and Policies Manual, master plans, character plan and General Plan.

THIS PROJECT CONFORMS TO THE D.S.M.P.

2. The architectural character, landscaping and site design of the proposed development shall:

a. Promote a desirable relationship of structures to one another, to open spaces and topography, both on the site and in the surrounding neighborhood;

SINGLE BUILDING – COMPATABLE WITH ADJACENT BUILDINGS

b. Avoid excessive variety and monotonous repetition;

The design of the proposed Building is characterized as a minimalist aesthetic with natural concrete tilt slab construction of the exterior walls. The various elements are unified with reveals in the tilt panels.

c. Recognize the unique climatic and other environmental factors of this region to respond to the Sonoran Desert environment, as specified in the Sensitive Design Principles;

BUILDING IS PROPOSED TO BE OF NATURAL CONCRETE TILT CONSTRUCTION. ACCENT COLORS WARM GREY

d. Conform to the recommendations and guidelines in the Environmentally Sensitive Lands (ESL) Ordinance, in the ESL Overlay District; and

NOT APPLICABLE (NOT IN ESL)

e. Incorporate unique or characteristic architectural features, including building height, size, shape, color, texture, setback or architectural details, in the Historic Property Overlay District.

NOT APPLICABLE (NOT IN HISTORIC OVERLAY DISTRICT)

3. Ingress, egress, internal traffic circulation, off-street parking facilities, loading and service areas and pedestrian ways shall be so designed as to promote safety and convenience.

EXPANDED WALK AREA IS ADJACENT TO THE MAIN LOBBY.

MEMBERS WILL BE TRANSPORTED FROM CORPORATE OFFICE (approx. 1 block from HANGAR) & DROPPED OFF @ STREET.

4. If provided, mechanical equipment, appurtenances and utilities, and their associated screening shall be integral to the building design.

**MECHANICAL EQUIPMENT IS SCREENED WITH A SCREEN WALL
ALL EQUIPMENT IS ROOF MOUNTED (NO ground mounted equipment)**

5. Within the Downtown Area, building and site design shall:

NOT APPLICABLE (NOT IN HISTORIC DOWNTOWN)

- a. Demonstrate conformance with the Downtown Plan Urban Design & Architectural Guidelines;
- b. Incorporate urban and architectural design that address human scale and incorporate pedestrian-oriented environment at the street level;
- c. Reflect contemporary and historic interpretations of Sonoran Desert architectural traditions, by subdividing the overall massing into smaller elements, expressing small scale details, and recessing fenestrations;
- d. Reflect the design features and materials of the urban neighborhoods in which the development is located; and
- e. Incorporate enhanced design and aesthetics of building mass, height, materials, and intensity with transitions between adjacent/abutting Type 1 and Type 2 Areas, and adjacent/abutting Type 2 Areas and existing development outside the Downtown Area.

6. The location of artwork provided in accordance with the Cultural Improvement Program or Public Art Program shall address the following criteria:

NOT APPLICABLE

- a. Accessibility to the public;
- b. Location near pedestrian circulation routes consistent with existing or future development or natural features;
- c. Location near the primary pedestrian or vehicular entrance of a development;
- d. Location in conformance with the Design Standards and Policies Manual for locations affecting existing utilities, public utility easements, and vehicular sight distance requirements; and
- e. Location in conformance to standards for public safety.

DEVELOPMENT REVIEW BOARD CRITERIA ANALYSIS

Per Section 1.904. of the Zoning Ordinance, in considering any application for development, the Development Review Board shall be guided by the following criteria:

1. The Board shall examine the design and theme of the application for consistency with the design and character components of the applicable guidelines, development standards, Design Standards and Policies Manual, master plans, character plan and General Plan.
 - *Staff finds the project is consistent with the zoning ordinance, DSPM, and General Plan for the area.*
2. The architectural character, landscaping and site design of the proposed development shall:
 - a. Promote a desirable relationship of structures to one another, to open spaces and topography, both on the site and in the surrounding neighborhood;
 - b. Avoid excessive variety and monotonous repetition;
 - c. Recognize the unique climatic and other environmental factors of this region to respond to the Sonoran Desert environment, as specified in the Sensitive Design Principles;
 - d. Conform to the recommendations and guidelines in the Environmentally Sensitive Lands (ESL) Ordinance, in the ESL Overlay District; and
 - e. Incorporate unique or characteristic architectural features, including building height, size, shape, color, texture, setback or architectural details, in the Historic Property Overlay District.
 - *The applicant states that the design of the proposed building is compatible with adjacent buildings and is characterized as a minimalist aesthetic with natural concrete tilt slab construction of the exterior walls. The various elements are unified with reveals in the tilt panels. Accent colors to be warm grey.*
 - *Staff finds that the building facade is composed of tilt concrete panels with various reveals and horizontal accent bands. The color scheme includes Intellectual Gray, Anonymous, and Laurel Woods. The original submittal utilized all cool gray colors, and the applicant revised the color palette to include a warmer selection. Due to the proposed building and aircraft staging size, the landscaping on site is limited to the street frontage surrounding the parking stalls and patio area. Site plan includes 3' tall screen walls to shield parking stalls from the street.*
3. Ingress, egress, internal traffic circulation, off-street parking facilities, loading and service areas and pedestrian ways shall be designed as to promote safety and convenience.
 - *The applicant states that there is a wide sidewalk from street frontage to the building entrance.*
 - *Staff finds that there are two driveways onto the site from N. 75th Street to provide access to the 6 required parking spaces (split between two sections of 3 and 3), refuse, staff patio, and main building entrance. There is a wide pedestrian sidewalk from the street to the lobby of the building. Beyond the eastern parking spaces is a gated accessway to the aircraft staging area in the rear of the site.*
4. If provided, mechanical equipment, appurtenances and utilities, and their associated screening shall be integral to the building design.

- *The applicant states there is no ground mounted equipment and all roof mounted equipment is screened.*
 - *Staff finds that all mechanical equipment will be screened by a roof parapet at least as tall as the units. The electrical SES area will be recessed into the building façade.*
5. Within the Downtown Area, building and site design shall:
 - a. Demonstrate conformance with the Downtown Plan Urban Design & Architectural Guidelines;
 - b. Incorporate urban and architectural design that address human scale and incorporate pedestrian-oriented environment at the street level;
 - c. Reflect contemporary and historic interpretations of Sonoran Desert architectural traditions, by subdividing the overall massing into smaller elements, expressing small scale details, and recessing fenestrations;
 - d. Reflect the design features and materials of the urban neighborhoods in which the development is located; and
 - e. Incorporate enhanced design and aesthetics of building mass, height, materials and intensity with transitions between adjacent/abutting Type 1 and Type 2 Areas, and adjacent/abutting Type 2 Areas and existing development outside the Downtown Area.
 - *This criterion is not applicable.*
 6. The location of artwork provided in accordance with the Cultural Improvement Program or Public Art Program shall address the following criteria:
 - a. Accessibility to the public;
 - b. Location near pedestrian circulation routes consistent with existing or future development or natural features;
 - c. Location near the primary pedestrian or vehicular entrance of a development;
 - d. Location in conformance with Design Standards and Policies Manual for locations affecting existing utilities, public utility easements, and vehicular sight distance requirements; and
 - e. Location in conformance to standards for public safety.
 - *This criterion is not applicable.*

DEVELOPMENT INFORMATION

Zoning History

The site was annexed into the City in 1962 under Ordinance No. 165. Then in 1964, the site was rezoned to I-1, Industrial Park, under zoning case 47-ZN-1964. The I-1 District is intended to provide for light manufacturing, aeronautical, light industrial, office and supportive uses to sustain and enhance major employment opportunities. Since then, there was a DRB case, 17-DR-1992, submitted for a hangar and office building, but was never built.

Community Involvement

With the submittal of the application, staff notified all property owners within 750 feet of the site. In addition, the applicant has been in communication with property owners surrounding the site. As of the publishing of this report, staff has not received any community input regarding the application.

Context

The subject site is located within the Greater Airpark Character Area, which contains the largest industrial-zoned area within the City of Scottsdale. The site is located at the northwest corner of N. 7th Street and E. Karen Drive intersection. The property is surrounded by other office, warehouse, and hangar buildings. To the north of the site is an airport taxiway which this project will utilize.

Project Data

- Existing Use: Vacant Parcel
- Proposed Use: Hangar Building
- Parcel Size: 40,960 square feet / .94 acre
- Total Building Area: 16,270 square feet
- Floor Area Ratio Allowed: 0.8
- Floor Area Ratio Provided: 0.4
- Building Height Allowed: 52 feet
- Building Height Proposed: 40 feet
- Parking Required: 6 spaces
- Parking Provided: 6 spaces
- Open Space Required: 3,768 square feet
- Open Space Provided: 3,783 square feet

**Stipulations for the
Development Review Board Application:
New Corporate Hangar for Set Jet
Case Number: 31-DR-2021**

These stipulations are intended to protect the public health, safety, welfare, and the City of Scottsdale.

APPLICABLE DOCUMENTS AND PLANS:

1. Except as required by the Scottsdale Revised Code (SRC), the Design Standards and Policies Manual (DSPM), and the other stipulations herein, the site design and construction shall substantially conform to the following documents:
 - a. Architectural elements, including dimensions, materials, form, color, and texture shall be constructed to be consistent with the building elevations submitted by James Elson, with a city staff date of 6/23/22.
 - b. The location and configuration of all site improvements shall be consistent with the site plan submitted by James Elson, with a city staff date of 6/23/22.
 - c. Landscape improvements, including quantity, size, and location shall be installed to be consistent with the preliminary landscape plan submitted by James Elson, with a city staff date of 6/23/22.
 - d. The case drainage report submitted by Four Peaks Design Group and accepted in concept by the Stormwater Management Department of the Planning and Development Services.
 - e. The water and sewer basis of design report submitted by Four Peaks Design Group and accepted by the Water Resources Department.

RELEVANT CASES:

Ordinance

- A. At the time of review, the applicable zoning, case was 47-ZN-1964.

ARCHAEOLOGICAL RESOURCES:

Ordinance

- B. Any development on the property is subject to the requirements of Scottsdale Revised Code, Chapter 46, Article VI, Section 46-134 - Discoveries of archaeological resources during construction.

ARCHITECTURAL DESIGN:

DRB Stipulations

2. All exterior window glazing shall be recessed a minimum of fifty (50) percent of the wall depth, including glass windows within any tower/clerestory elements. The amount or recess shall be measured from the face of the exterior wall to the face of the glazing, exclusive of external detailing. With the final plan submittal, the developer shall provide head, jamb and sill details clearly showing the amount of recess for all window types.

3. All exterior doors shall be recessed a minimum of thirty (30) percent of the wall depth, the amount of recess shall be measured from the face of the exterior wall to the face of the glazing, exclusive of external detailing. With the final plan submittal the developer shall provide head, jamb and sill details clearly showing the amount of recess for all door types.
4. SES area shall be fully recessed into the building façade and painted to match the building.
5. Roof drainage systems, excluding overflow scuppers, shall be interior to the building.

SITE DESIGN:

DRB Stipulations

6. All drive aisles that are fire lanes shall have a width of twenty-four (24) feet.
7. Prior to issuance of any building permit for the development project, the property owner shall submit plans and receive approval to construct all refuse enclosures in conformance with the City of Scottsdale Supplements to MAG Standard Details.

LANDSCAPE DESIGN:

Ordinance

- C. If any native plants are to be disturbed or removed on site, the applicant shall submit a native plant inventory for review with final plans to receive a native plant permit.

DRB Stipulations

8. Prior to the issuance of any building permit for the development project, the property owner shall submit landscape improvement plans that demonstrate how the salvaged vegetation from the site will be incorporated into the design of the landscape improvements.
9. Landscape pots and/or raised landscape planters, with a minimum of 36 inches in diameter, a sufficient depth to support the root system of the plants located in the pots/planters, and an automatic irrigation system, shall be provided in the plaza area and pedestrian nodes that are shown on the site plan.
10. With the final plans submittal, the property owner shall update the landscape plans to show all utility lines and ensure that all new trees are placed at least eight (8) feet away from any utility lines.

EXTRIOR LIGHTING:

Ordinance

- D. All exterior luminaires mounted eight (8) feet or higher above finished grade, shall be directed downward.
- E. Any exterior luminaire with a total initial lumen output of greater than 1600 lumens shall have an integral lighting shield.
- F. Any exterior luminaire with a total initial lumen output of greater than 3050 lumens shall be directed downward and comply with the Illuminating Engineering Society of North America (IES) requirements for full cutoff.

DRB Stipulations

11. All exterior luminaires shall meet all IES requirements for full cutoff, and shall be aimed downward and away from property line except for sign lighting.
12. Incorporate the following parking lot and site lighting into the project's design:

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- a. The maintained average horizontal luminance level, at grade on the site, shall not exceed 2.0 foot-candles. All exterior luminaires shall be included in this calculation.
- b. The maintained maximum horizontal luminance level, at grade on the site, shall not exceed 8.0 foot-candles. All exterior luminaires shall be included in this calculation.
- c. The initial vertical luminance at 6-foot above grade, along the entire property line shall not exceed 0.8 foot-candles. All exterior luminaires shall be included in this calculation.
- d. All exterior lighting shall have a color temperature of 3,000 Kelvin or less.
- e. The total lumen per luminaire shall not exceed 24,000 lumens.

13. All exterior lighting shall have a shield that is black or dark bronze.

AIRPORT:

Ordinance

This project falls within the Airport Influence Area, AC-3 and is located adjacent to a taxilane, and as per Scottsdale Revised Code, Aviation, Chapter 5, a Scottsdale Airport Vicinity Development Long Form and its requirements, including the following stipulations will be required to be completed prior to final plan approval:

- G. Taxilane Access/Staging and Hangar Review – as listed on the long form requirements, a full-size site plan which depicts exact hangar dimensions – all sides, staging area dimensions – all sides, taxilane safety easement area which is 50' from taxilane centerline, property line, proposed based aircraft, etc. should be forwarded to the aviation department. A staging area shall be greater than or equal to the size of the largest hangar on the site per Definitions section. Also proposed parcel site must include enough hangar space for each proposed aircraft to fit simultaneously inside. Sec. 310.
- H. Height Analysis, Section 5-354 -- The owner of new development (and natural growth and construction equipment associated with new development), to be located within the twenty-thousand-foot radius of the Scottsdale Airport, that penetrates the 100:1 slope from the nearest point of the runway shall submit to the FAA the appropriate forms for FAA review. See FAA Form 7460-1. Before final plan approval, the owner shall submit the FAA response to FAA Form 7460-1.
- I. Disclosure, Section 5-355 -- As recommended by the FAA Part 150 Noise Compatibility Study, each owner of property located in the areas labeled AC-1, AC-2 and AC-3 shown on Figure 1, Airport Influence Area, shall make fair disclosure to each purchaser. If a development is subject to Covenants, Conditions and Restrictions (CC&Rs), the owner shall include the disclosure in the CC&Rs.
- J. Avigation Easement , Section 5-357 -- Before final plan approval for any new development, the owner of a new development in the areas labeled AC-1 (for noise-sensitive uses only, except hotels, motels, resorts and hospitals), AC-2 and AC-3 shown on Figure 1, Airport Influence Area, shall grant the city, and record, an avigation easement satisfactory to the city attorney's office.

STREET DEDICATIONS:

DRB Stipulations

14. Prior to the issuance of any building permit for the development project, the property owner shall dedicate in fee simple a twenty-five by twenty-five right of way corner clip, to the City of Scottsdale, at the corner of N. 75th Street and Karen Drive.

STREET INFRASTRUCTURE:

Ordinance

- K. All street infrastructure improvements shall be constructed in accordance with this City of Scottsdale (COS) Supplement to MAG Specifications and Details, and the Design Standards and Policies Manual.
- L. Prior to the issuance of any building permit for the development project, the property owner shall submit and obtain approval of civil construction documents to construct the improvements in accordance with the staff approved site plan.

DRB Stipulations

- 15. All public and private sidewalks shall be integral gray colored concrete.
- 16. All curb ramps for public and pedestrian sidewalks that intersect public and private streets, or driveways that intersect public and private streets, shall have truncated domes that are colored to match OSHA Safety Yellow, FED-STD-595C, 13591.

DRAINAGE AND FLOOD CONTROL:

DRB Stipulations

- 17. With the civil construction document submittal, the property owner shall submit a final drainage report that demonstrates consistency with the DSPM and the case drainage report accepted in concept by the Stormwater Manager or designee.
- 18. Additionally, with the civil construction document submittal, the Civil Engineer should address the following drainage stipulations:
- 19. The final drainage report should describe and demonstrate offsite flows around the project site and ensure that the site is not subject to any offsite flows based on additional survey as appropriate.
- 20. The final drainage report should discuss underground storage and their compliance with the city codes and Design Standards & Policies Manual (DS&PM).
- 21. The final drainage report should discuss Drainage and Flood Control (DFC) easements around the surface and underground stormwater storage and access to these storage areas.
- 22. The final drainage report should provide all drainage exhibits to scale and on 24"X36" maps
- 23. The final drainage report should clearly demonstrate all hydrologic and hydraulic calculations and stormwater storage calculations.
- 24. The final Civil G&D Plans should be prepared to scale that are acceptable to the city based on the DS&PM.
- 25. The final Civil G&D Plans should include several cross-sections across the site and the proposed improvements in accordance with the DS&PM
- 26. The final Civil G&D Plans should clearly demonstrate the onsite grading and drainage design and analysis.
- 27. All headwalls and drainage structures shall be integrally colored concrete to blend with the color of the surrounding natural desert.

EASEMENTS DEDICATIONS:

DRB Stipulations

28. Prior to the issuance of any building permit for the development project, the property owner shall dedicate the following easements to the City of Scottsdale on a final plat or map of dedication:
- a. A sight distance easement, in conformance with figures 5.3-26 and 5.3-27 of Section 5.3 of the DSPM, where a sight distance triangle(s) cross on to the property.
 - b. A continuous Public Non-Motorized Access Easement to the City of Scottsdale to contain any portion of the public sidewalk in locations where the sidewalk crosses on to the lot.
 - c. A minimum twenty (20) foot wide Water + Sewer Facilities Easement to contain public water and sewer infrastructure located outside public right-of-way.
 - d. Avigation easement over the property.

ADDITIONAL ITEMS:

Ordinance

- M. Special events can only occur through the Special Events review and approval process with the City of Scottsdale.

FIRE ORDINANCE REQUIREMENTS

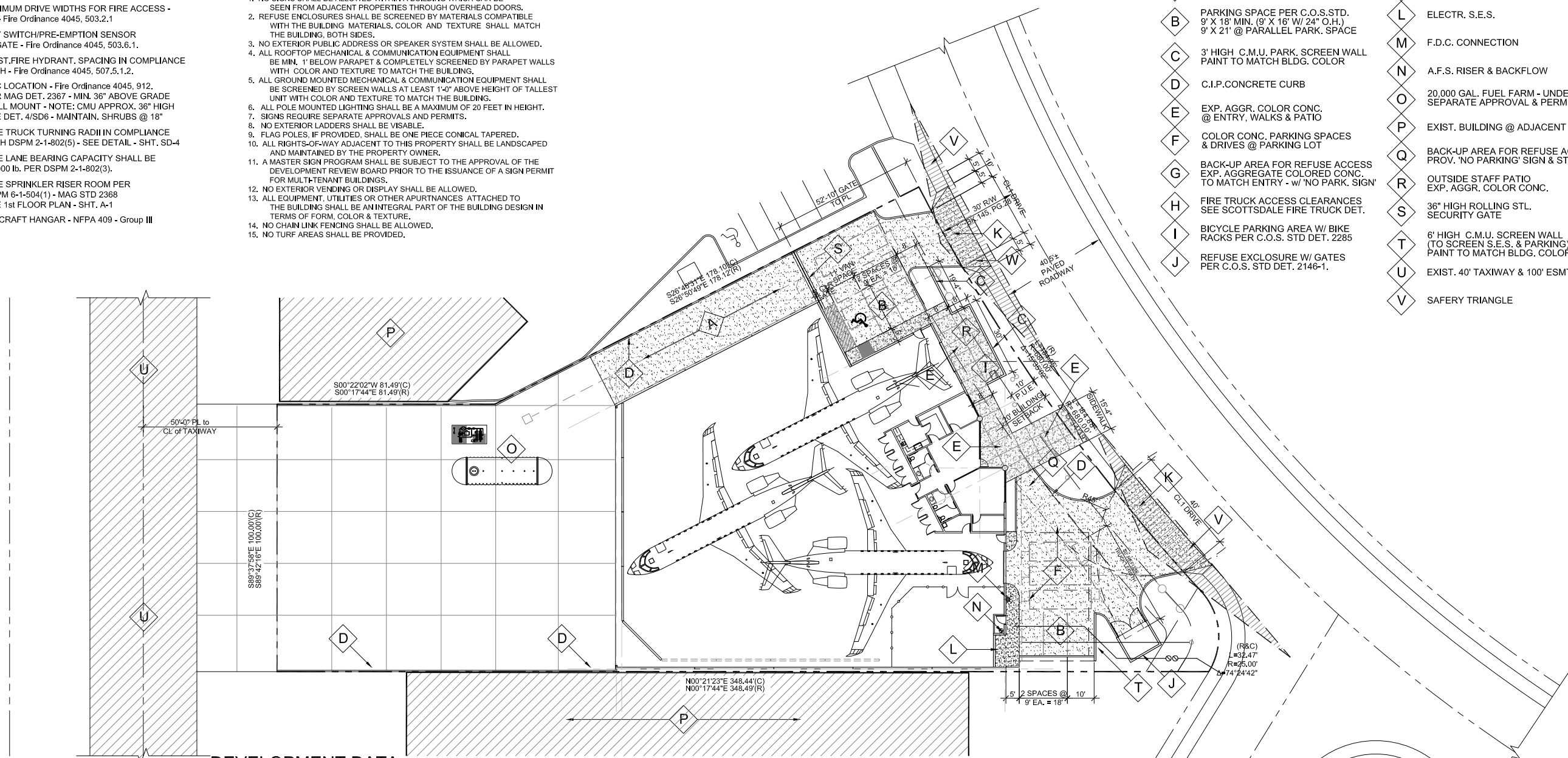
- 1 MINIMUM DRIVE WIDTHS FOR FIRE ACCESS - 24' - Fire Ordinance 4045, 503.2.1
- 2 KEY SWITCH/PRE-EMPTION SENSOR @ GATE - Fire Ordinance 4045, 503.6.1.
- 3 EXIST. FIRE HYDRANT. SPACING IN COMPLIANCE WITH - Fire Ordinance 4045, 507.5.1.2.
- 4 FDC LOCATION - Fire Ordinance 4045, 912. PER MAG DET. 2367 - 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.

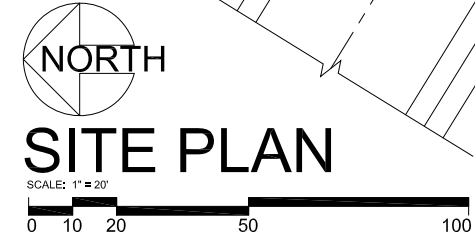
SITE PLAN KEY NOTES

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



DEVELOPMENT DATA

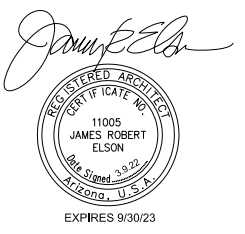
LOT AREAS	BUILDING AREA:	OPEN SPACE REQUIRED:
LOT AREA - 40,960 SF (.94 AC)	HANGAR	GENERAL
F.A.R. ALLOWED:	GROSS AREA 13,638 sf	BASE - 40,960 X 10% = 4,096 SF
40,960 X 0.8 = 32,768 SF	UNUSABLE (HGR. DOOR OPER.) 404 sf	12' - (40-12) X 0.3% = 8.4% = TOTAL 3,441 SF
F.A.R. PROVIDED:	USABLE / AIRCRAFT STOR.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



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

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

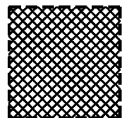
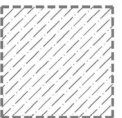
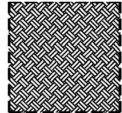

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 jameselsonarchitect@gmail.com

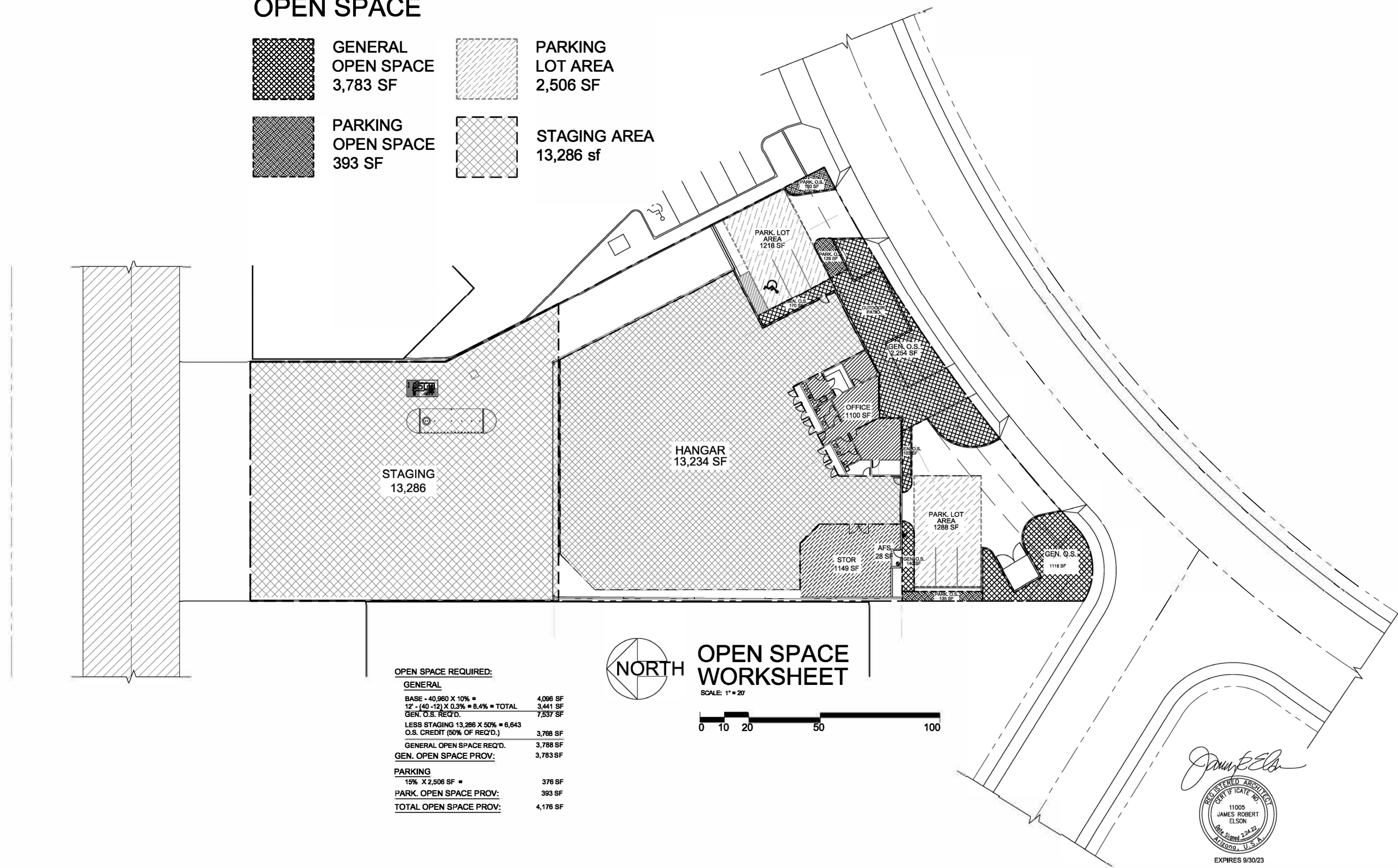


SD1
SITE PLAN

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'

NORTH

James Elson
 REGISTERED ARCHITECT
 11005
 JAMES ROBERT
 ELSON
 One Simey 224-22
 Phoenix, U.S.A.
 EXPIRES 9/30/23

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

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 architect

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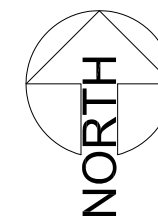
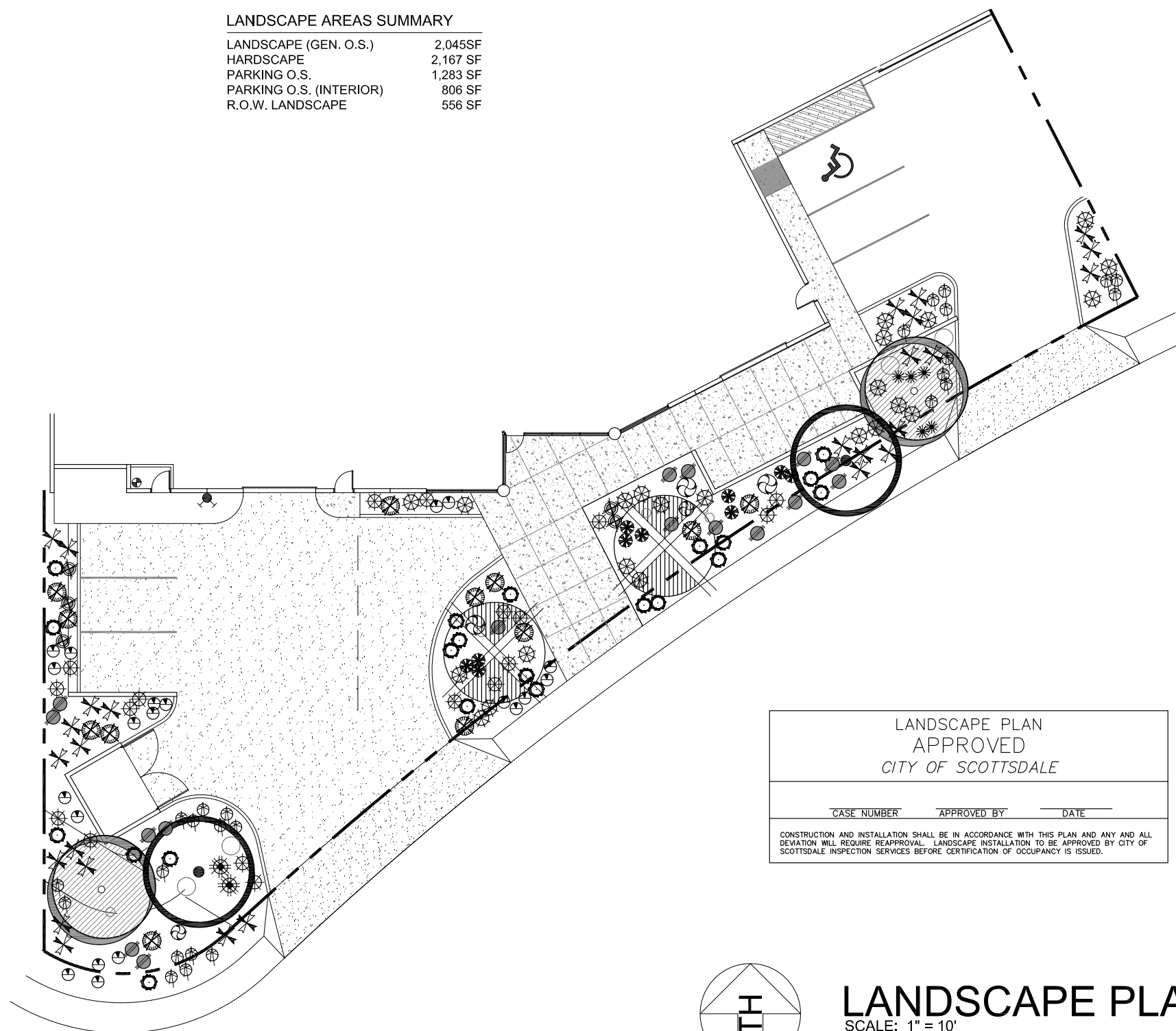
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LANDSCAPE AREAS SUMMARY

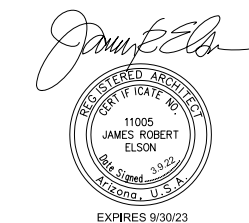
LANDSCAPE (GEN. O.S.)	2,045SF
HARDSCAPE	2,167 SF
PARKING O.S.	1,283 SF
PARKING O.S. (INTERIOR)	806 SF
R.O.W. LANDSCAPE	556 SF

SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	No.	REMARKS
TREES					
	PROSOPSIS ALBA	CHILEAN MESQUITE	36" BOX	1	
	CERCIDIUM FLORIDUM	BLUE PALO VERDE	36" BOX	3	
	CERCIDIUM PRAECOX	PALO BREA	36" BOX	2	
ACCENTS					
	DASYRION 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	
SHRUBS					
	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	

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.



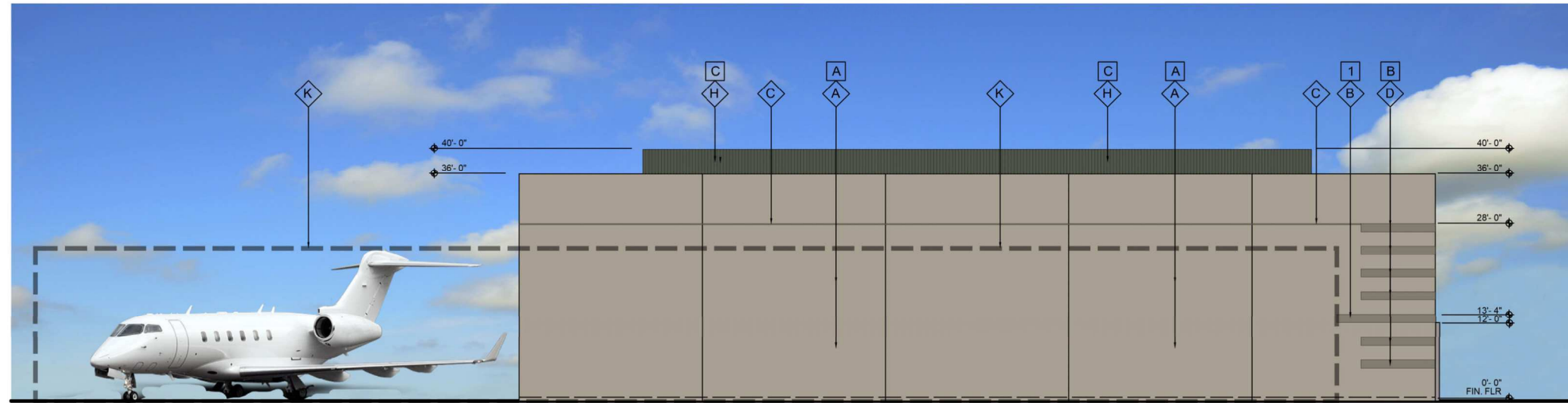
LANDSCAPE PLAN
SCALE: 1" = 10'



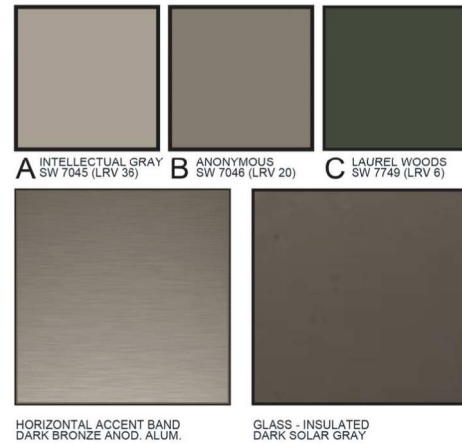
DATE 7.25.21
REVISED
C.O.S. DR COMMENTS 11.15.21
REVISED 2.22.22
COS & OWNER
REVISED 3.9.22
COS

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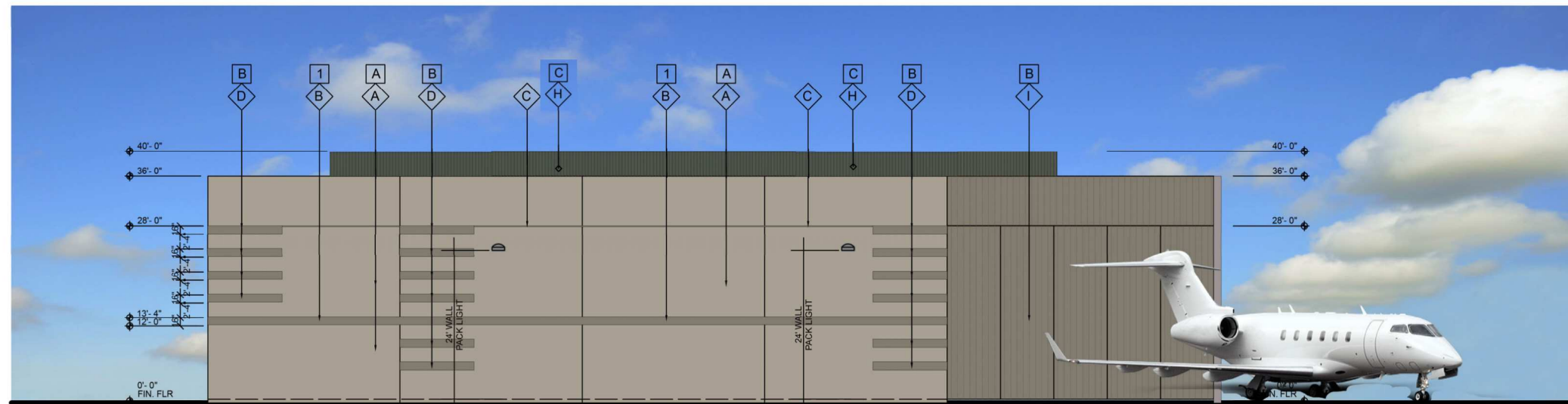


WEST ELEVATION



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

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 SEE 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		



EAST ELEVATION

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

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elison
architect



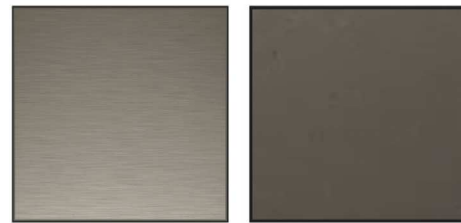
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j4747e@aol.com
jameselisonarchitect
@gmail.com

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:

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set jet ▶

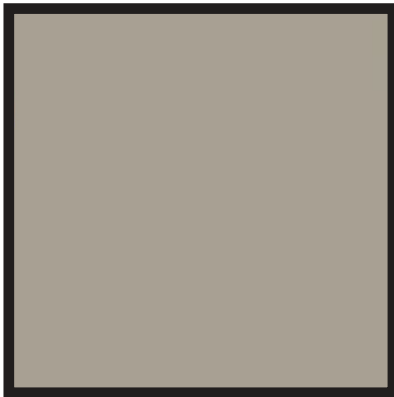
Materials Sample Board

james
el^on

el^on
architect

Set Jet

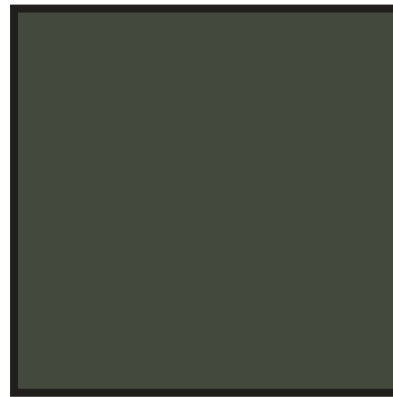
16420 n. ninety second street
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scottsdale, arizona
602.903.5311 t.
480.515.9342 f.



A INTELLECTUAL GRAY
SW 7045 (LRV 36)



B ANONYMOUS
SW 7046 (LRV 20)



C LAUREL WOODS
SW 7749 (LRV 6)


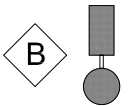
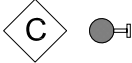



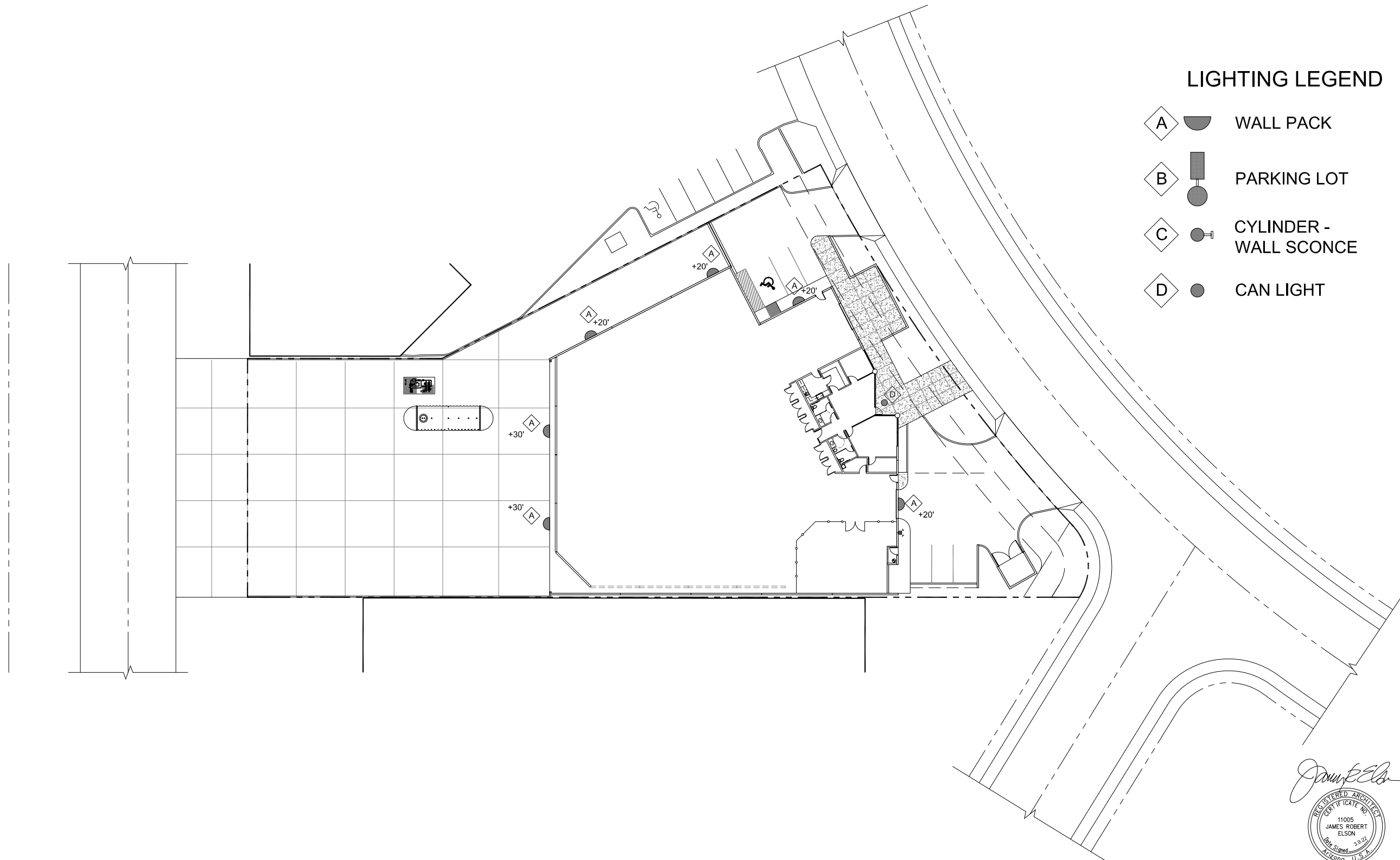
HORIZONTAL ACCENT BAND
DARK BRONZE ANOD. ALUM.



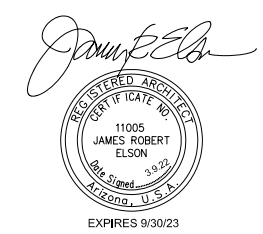
GLASS - INSULATED
DARK SOLAR GRAY

LIGHTING LEGEND

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



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



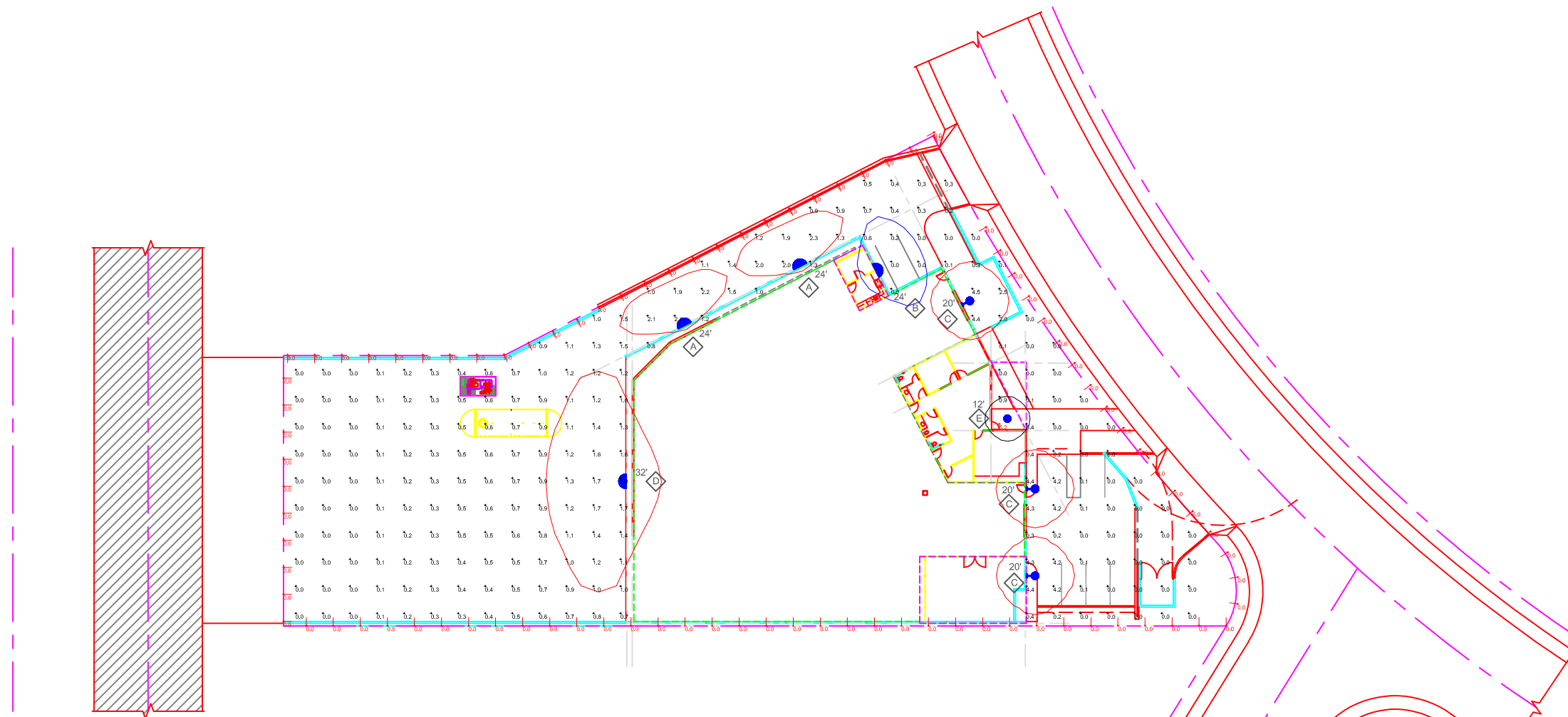
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SITE LIGHTING PLAN

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




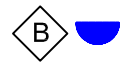
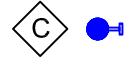


Date: 7/26/2021

Filename: G:\Cad Projects\1565-21-Set Jet Hanger\PHOTOMETRICS\1565-21-1.AGI

Symbol	Qty	Label	Arrangement	Total Lamp Lumens	LLF	Description
□	2	A	Single	N.A.	1.000	NVC-F14-16L-30K-LIN-VWLF-FRESH Mounted at 24 ft
□	1	B	Single	N.A.	1.000	NVC-F14-16L-30K-LIN-VWLF-FRESH Mounted at 20 ft avg
□	3	C	Single	N.A.	1.000	RDR-F14-16L-30K-LIN-VWLF-FRESH Mounted at 20 ft avg
□	1	D	SINGLE	N.A.	1.000	NVC-F14-16L-30K-LIN-VWLF-FRESH Mounted at 32 ft avg
○	1	E	SINGLE	N.A.	1.000	RDR-F14-16L-30K-LIN-VWLF-FRESH Mounted at 12 ft avg

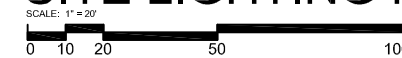
Label	Description	Calc Type	Units	Avg	Max	Min	Avg/Min	Max/Min
Grid		Illuminance	Fc	0.71	5.2	0.0	N/A	N/A
Vert Spill at 6 ft avg		Illuminance	Fc	0.00	0.0	0.0	N/A	N/A

LIGHTING LEGEND

-  **A** WALL PACK
-  **B** WALL PACK
-  **C** CYLINDER - WALL SCONCE
-  **D** WALL PACK
-  **E** CAN LIGHT



SITE LIGHTING PLAN



AIRCRAFT HANGAR for
FALCON NEST, LLC
15650 N. 83RD WAY

DATE: 2.10.21
REVISED:

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elison
architect

16420 north 92nd street
suite two hundred nineteen
scottsdale, arizona
85260

85260
602.903.5311
j4747e@aol.com
jameselisonarchitect@gmail.com

SD1
SITE PLAN



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) 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)			Trunnion 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)	

****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.

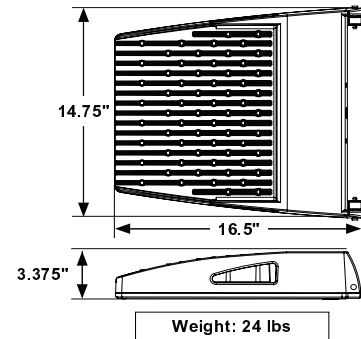
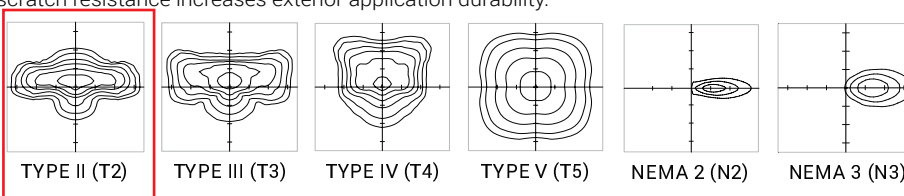
CONTROLS

- **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.

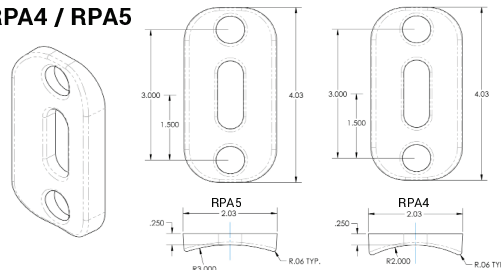
OPTICS

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.

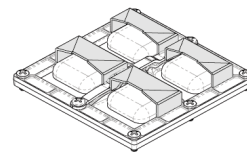
- IES Types



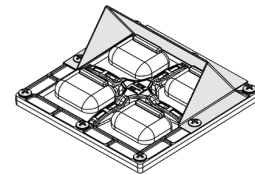
RPA4 / RPA5



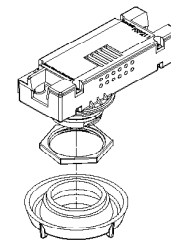
HOUSE SIDE SHIELD



AUTOMOTIVE HOUSE SIDE SHIELD

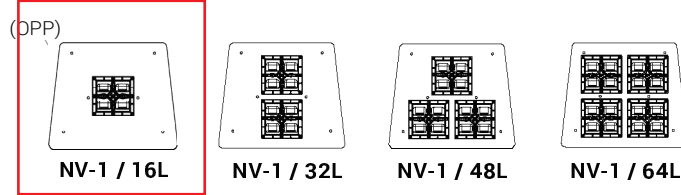


FSP-211



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-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	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

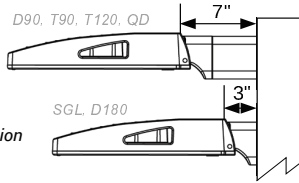
DPX ARM LENGTH	SGL	D90	D180	T90	T120	QD
NV-1	3"	7"	3"	7"	7"	7"

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)

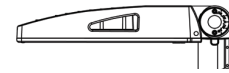
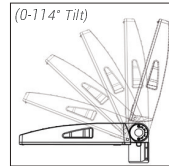
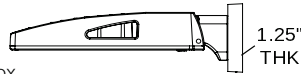
Steel fitter slips over 3.5" x 1.5" rectangular arm.

*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)

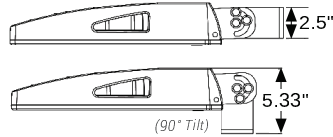
Die Cast Knuckle great for adjustable installation on 2-3/8" OD vertical or horizontal tenon.

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

TRUNNION MOUNT (TM)

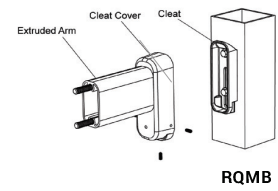
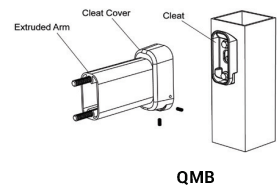
Steel, bolt-on-mounting for adjustable installation with a maximum uplift of 90 degrees.

*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.



Wild West Lighting
15530 North 94th Street, Suite 201
Scottsdale, Arizona 85260
P. 480.368.9909 F. 480.368.1030

Description : **NV-1-T4-16L-7-30K-UNV-WM-FINISH**
Project Name: **SET JET HANGAR**

TYPE:

B

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)	

****MUST SPECIFY COLOR****

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.

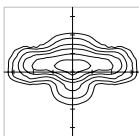
CONTROLS

- **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.

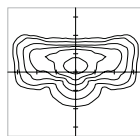
OPTICS

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.

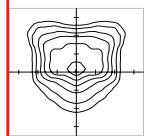
- IES Types



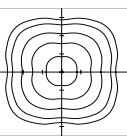
TYPE II (T2)



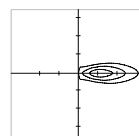
TYPE III (T3)



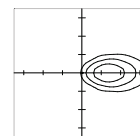
TYPE IV (T4)



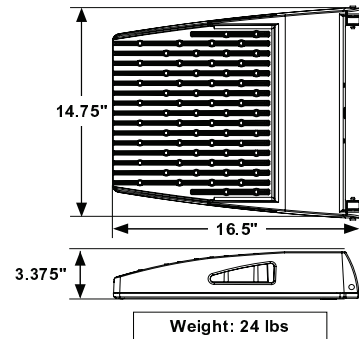
TYPE V (T5)



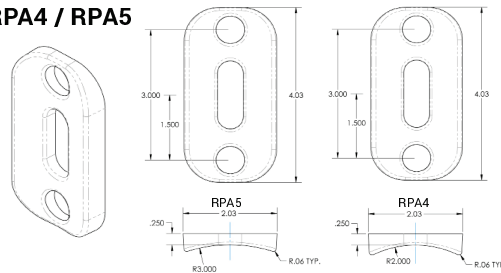
NEMA 2 (N2)



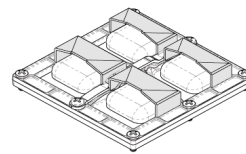
NEMA 3 (N3)



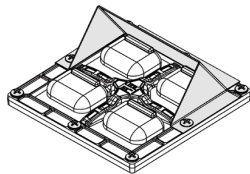
RPA4 / RPA5



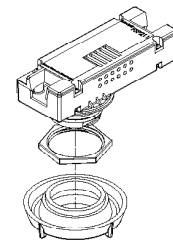
HOUSE SIDE SHIELD



AUTOMOTIVE HOUSE SIDE SHIELD

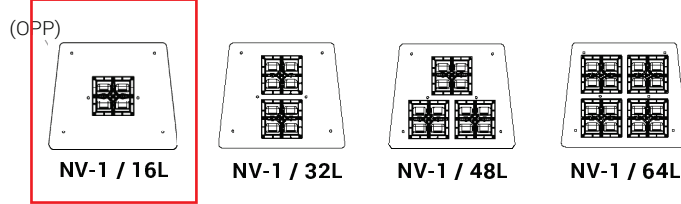


FSP-211



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	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

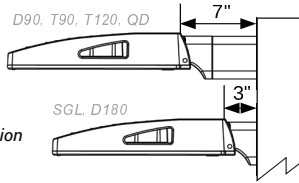
DPX ARM LENGTH	SGL	D90	D180	T90	T120	QD
NV-1	3"	7"	3"	7"	7"	7"

MOUNTING OPTIONS

DIRECT POLE (DP)

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

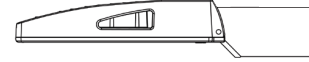
*Arm lengths may vary depending on configuration



TENNIS ARM (TA)

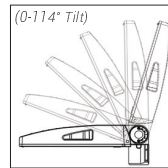
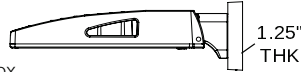
Steel fitter slips over 3.5" x 1.5" rectangular arm.

*See Tennis Arm Spec Sheet for details



WALL MOUNT (WM)

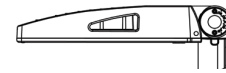
Cast Aluminum Plate for direct wall mount. 3" extruded aluminum arm mounts directly to a cast wall mount box.



KNUCKLE MOUNT (KM)

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

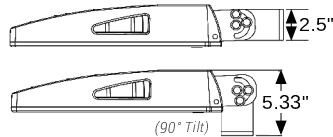
- Max Uptilt of 114 degrees
- Adjustable in 6 degree increments



TRUNNION MOUNT (TM)

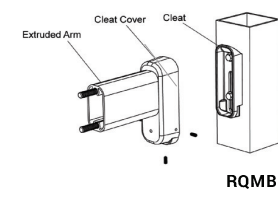
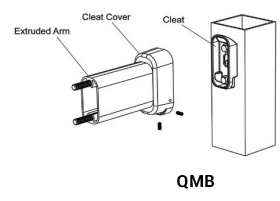
Steel, bolt-on-mounting for adjustable installation with a maximum uplift of 90 degrees.

*Unpainted stainless steel is standard



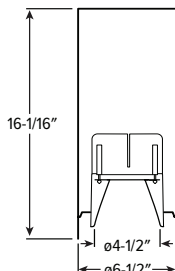
OPTIONAL

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.



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.

HOUSING

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

****SPECIFY FINISH****

TRIM

TRIM TYPE	DISTRIBUTION ^[7]	REFLECTOR FINISH ^[8]	TRIM OPTIONS
O Open reflector	W 65° Wide	Open Trim Types	AD Diffuse acrylic lens ^[11]
L Flush lens	M 45° Medium ^[9]	CS Clear semi-specular anodize	PD Diffuse 1/8" polycarbonate lens ^[12]
R Regressed lens	N 10° Narrow ^[10]	SG Satin-glow anodize	TD Diffuse polycarbonate lens media at top of open reflector ^[13]
		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	
		Lens Trim Types	
		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^[14]

- CM__ Adjustable aircraft cable mount, 24" length standard. Example: 24" cable = **CM24**^[15]
- PM__ Pendant mount. Example: 24" pendant = **PM24**^[16]
- PC__ Power cord mount. Example: 24" cord = **PC24**^[17]
- 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. 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 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

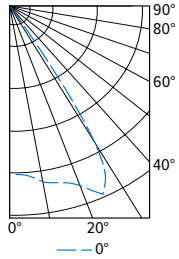
FIXTURE PERFORMANCE DATA

	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	-	-	-	-

- 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
	0 - 60	2004	100
	0 - 90	2005	100
	0-180	2005	100

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	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

BEAM ANGLE

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

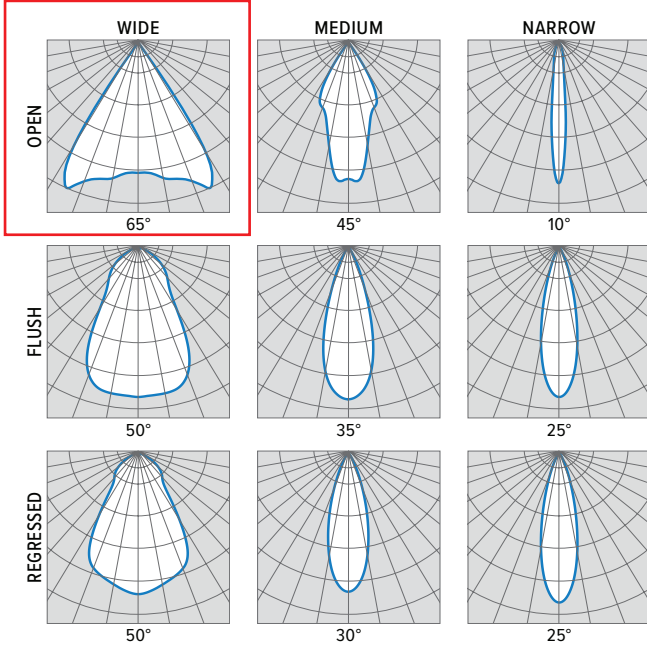
	REFLECTOR FINISH	
	CATALOG NUMBER	CONVERSION FACTOR
O TRIM	CS	1.00
	SG ⁽¹⁾	0.92
	GD	0.93
	CG	0.96
	PW	0.86
	SPC	1.02
	RG	0.88
R TRIM	WH ⁽¹⁾	0.89
	BL ⁽¹⁾	0.47
	WH	1.00
	CS ⁽¹⁾	0.98
	BL ⁽¹⁾	0.79
	BZ ⁽¹⁾	0.76
	NK ⁽¹⁾	0.81
	SV ⁽¹⁾	0.81
	AL ⁽¹⁾	0.86

¹ Distribution will also be affected, consult factory.

Notes:

6CR LED

6.5" Cylinder – Round



ADDITIONAL CONTROL OPTIONS

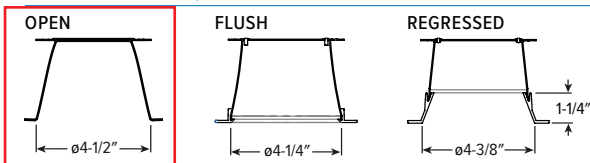
Lumen restrictions apply: L50 max for DMX driver, L40 max for Lutron drivers, L50 max for ELDO drivers, L60 max for DIM LINE driver. DMX available with CM Mounting Type only. 347V may require stepdown transformer, see product builder at hew.com/product-builder.

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__)



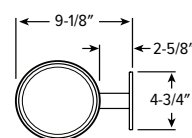
Swivel pendant mount fixtures are provided with:

- 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 ⁽¹⁾		/W White
	96 96"	5 5		/B Black
		6 6 ⁽¹⁾		Braided
				/WH White
				/BL Black
			/BR Brass	
			/AE Aegean Blue	
			/RE Red	
			/SV Silver	
			/GU Gunmetal	
			/NK Nickel	
			/GR Gray	

¹ Standard cord only.

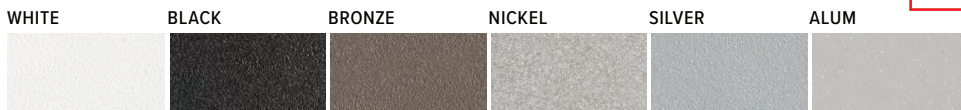
COLOR DETAILS

Additional colors may be available, consult factory.



HOUSING FINISH DETAILS

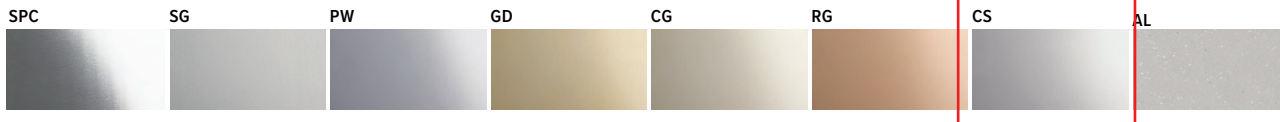
****MUST SPECIFY****



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.



NV-1 with DPS3

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.

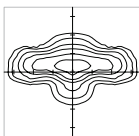
CONTROLS

- **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.

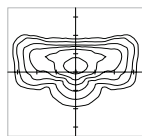
OPTICS

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.

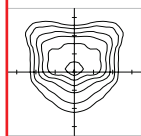
- IES Types



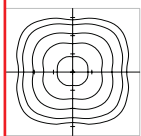
TYPE II (T2)



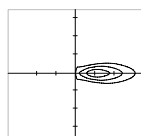
TYPE III (T3)



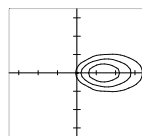
TYPE IV (T4)



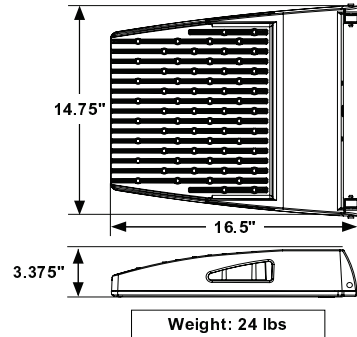
TYPE V (T5)



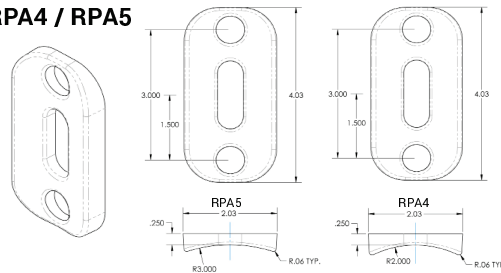
NEMA 2 (N2)



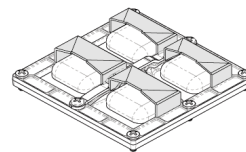
NEMA 3 (N3)



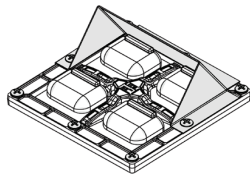
RPA4 / RPA5



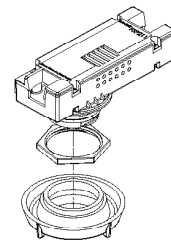
HOUSE SIDE SHIELD



AUTOMOTIVE HOUSE SIDE SHIELD



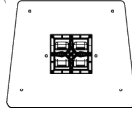
FSP-211



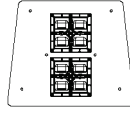
OPTICAL CONFIGURATIONS

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

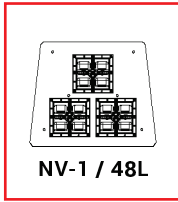
(OPP)



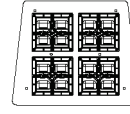
NV-1 / 16L



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

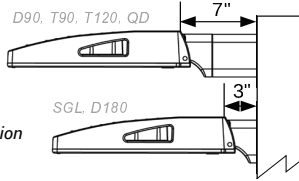
DPX ARM LENGTH	SGL	D90	D180	T90	T120	QD
NV-1	3"	7"	3"	7"	7"	7"

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)

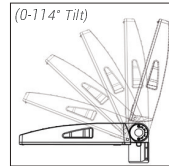
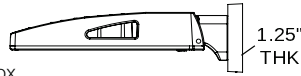
Steel fitter slips over 3.5" x 1.5" rectangular arm.

*See Tennis Arm Spec Sheet for details



WALL MOUNT (WM)

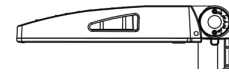
Cast Aluminum Plate for direct wall mount. 3" extruded aluminum arm mounts directly to a cast wall mount box.



KNUCKLE MOUNT (KM)

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

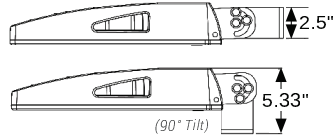
- Max Uptilt of 114 degrees
- Adjustable in 6 degree increments



TRUNNION MOUNT (TM)

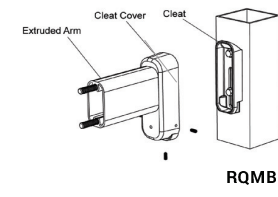
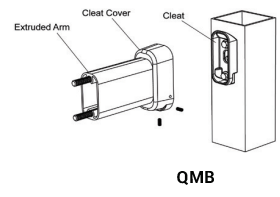
Steel, bolt-on-mounting for adjustable installation with a maximum uplift of 90 degrees.

*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.

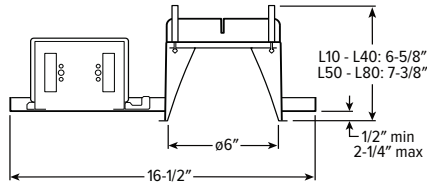
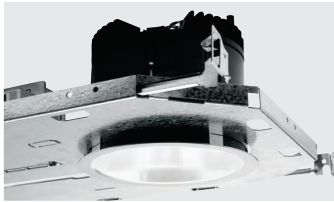


SET JET HANGAR

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.
- LISTINGS** –
 - cCSAus conforms to UL STD 1598; Certified to CAN/CSA STD C22.2 No. 250.0 for damp locations. LED light assembly conforms to UL 2108 for remote installation.
 - Suitable for wet location under covered ceiling when specified with WET/CC or TD options.
 - ENERGY STAR® certified in select configurations, see www.energystar.gov
 - IC-rated for direct contact with insulation when specified with I Mounting Type.
 - City of Chicago Environmental Air approved when specified with CP option.
 - Complies with ASTM-E283 when specified with ATH option.
 - RoHS compliant.
 - Title 24 (JAB) compliant in select configurations, see www.cacertappliances.energy.ca.gov.
- WARRANTY** – 5-year limited warranty, see www.hew.com/warranty.

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

HOUSING

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

TRIM [12]

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

MOUNTING

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

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 www.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



SET JET HANGAR

E

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

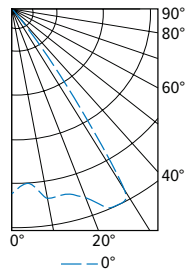
	REFLECTOR FINISH	
	CATALOG NUMBER	CONVERSION FACTOR
O TRIM	CS	1.00
	SG ¹	0.92
	GD	0.93
	CG	0.96
	PW	0.86
	SPC	1.02
	RG	0.88
	WH ¹	0.89
BL ¹	0.47	
R TRIM	WH	1.00
	CS	0.98
	BL	0.79

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

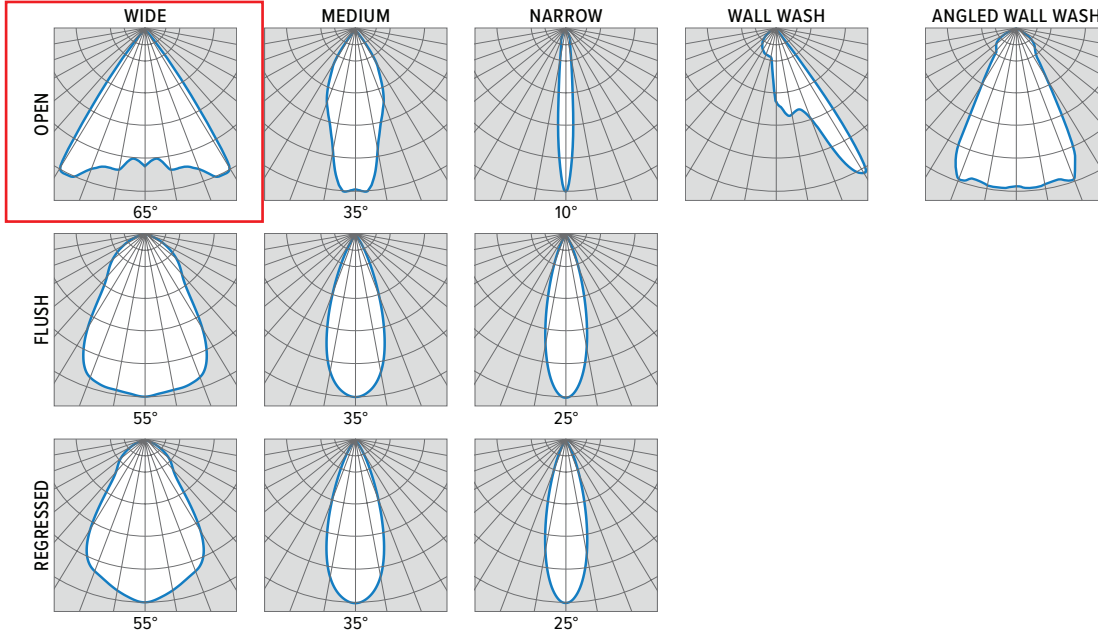
LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	1939	98
	0 - 60	1987	100
	0 - 90	1988	100
	0 - 180	1988	100



Notes:

6DR LED

6" Downlight – Round



ADDITIONAL CONTROL OPTIONS

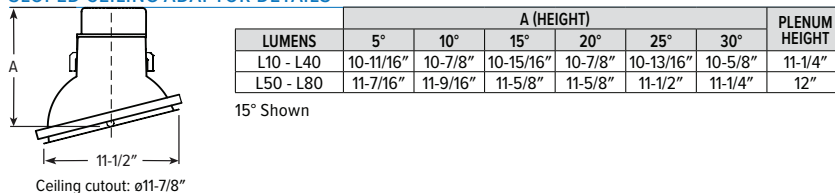
Lumen restrictions apply: L40 max for DMX driver, L40 max for Lutron drivers, L50 max for ELDO drivers, L60 max for DIM LINE driver. R Mounting Type not available with DMX or FCJS controls. R Mounting Type requires 12" minimum plenum depth when specified with VRF/DBI controls. 347V may require stepdown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

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

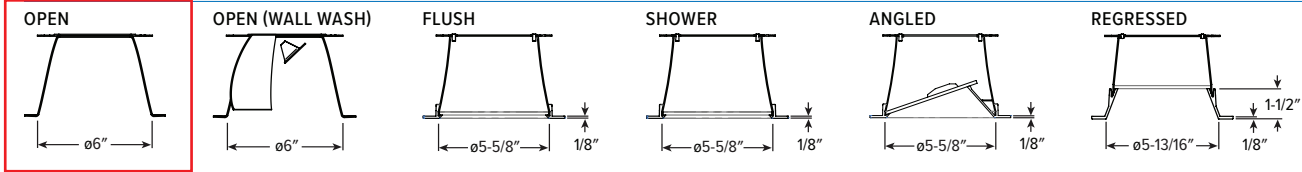


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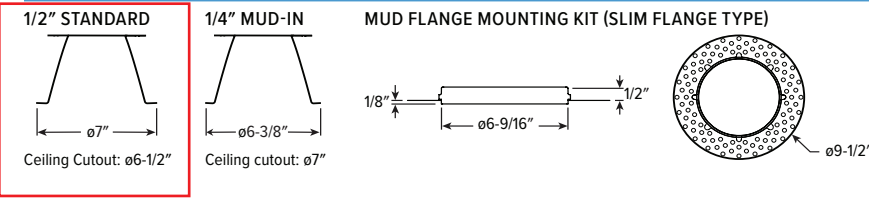
6DR LED

6" Downlight – Round

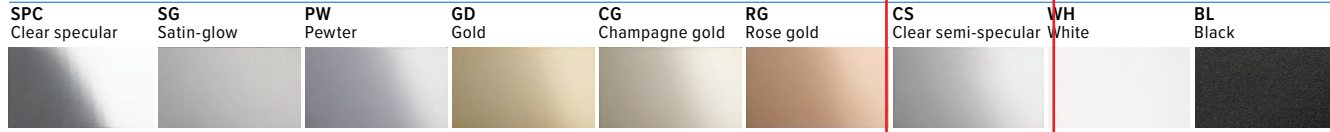
TRIM TYPE DETAILS



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"

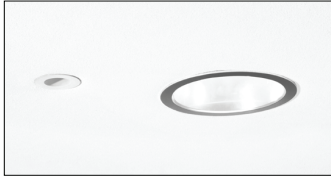


Notes:

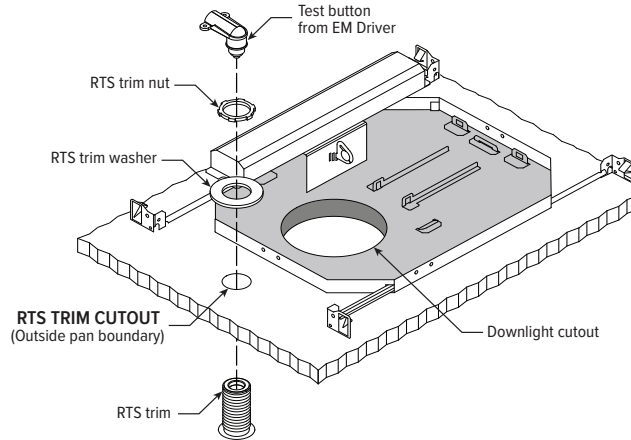
6DR LED

6" Downlight – Round

EM/10W/RTS DETAILS

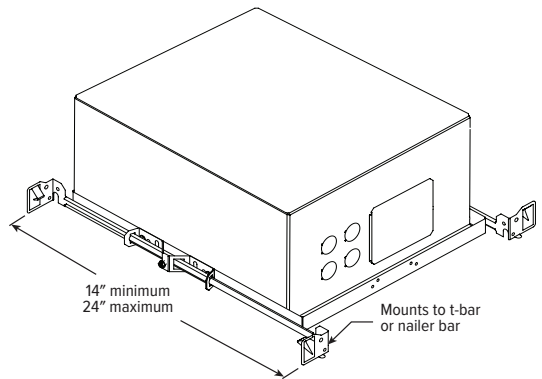
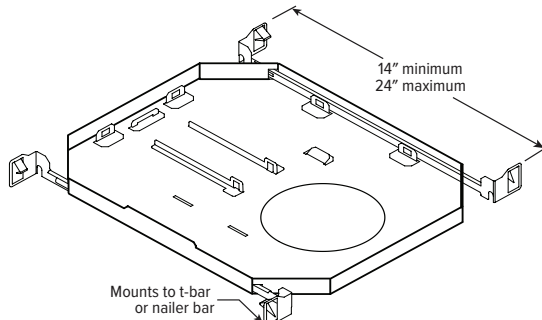


Shown Installed



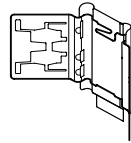
MOUNTING HARDWARE DETAILS

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

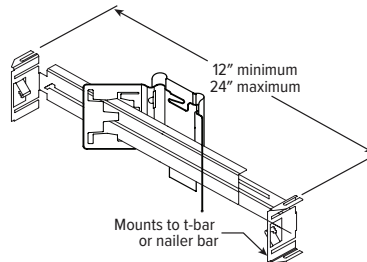


F1 with I Mounting Type

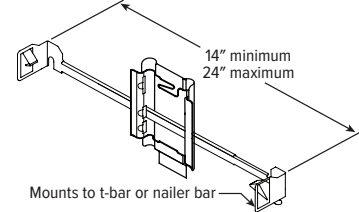
BA1 Adjustable butterfly pan bracket, bar hanger not included (N Mounting Type only)



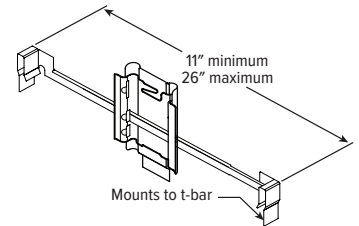
BA2 Adjustable butterfly pan bracket, heavy-duty universal bar hanger included (N Mounting Type only)



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)





Zoning Aerial

31-DR-2021

