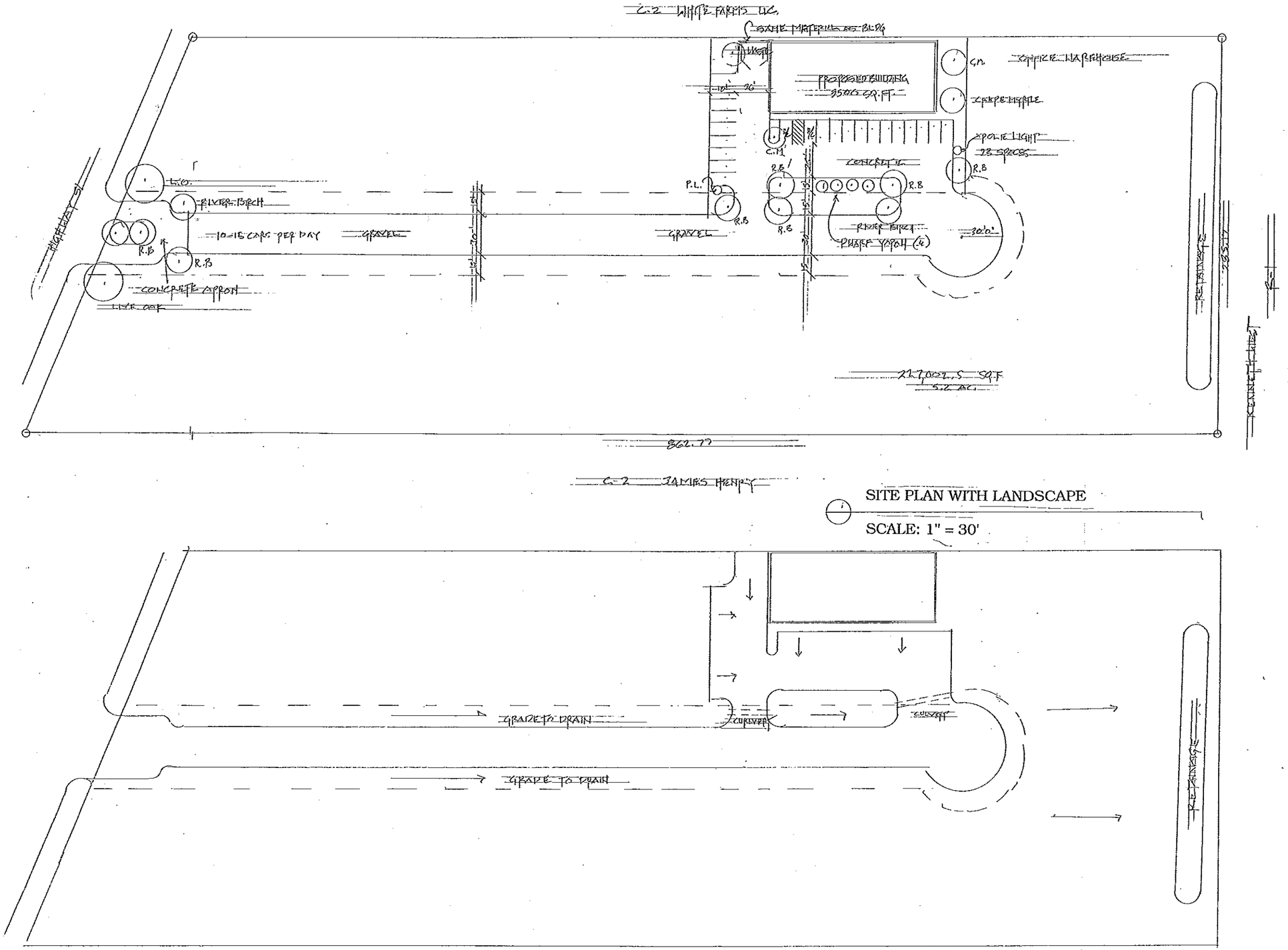

REVISIONS	BY

GREG AINSWORTH,
ARCHITECT

HIGHWAY 51 OFFICE
PARK

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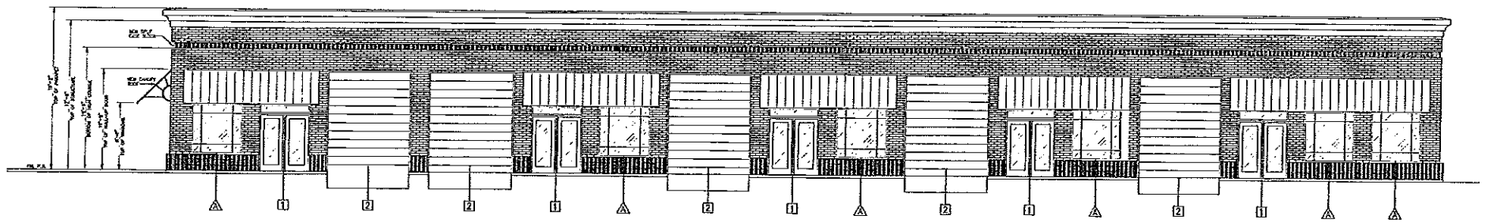
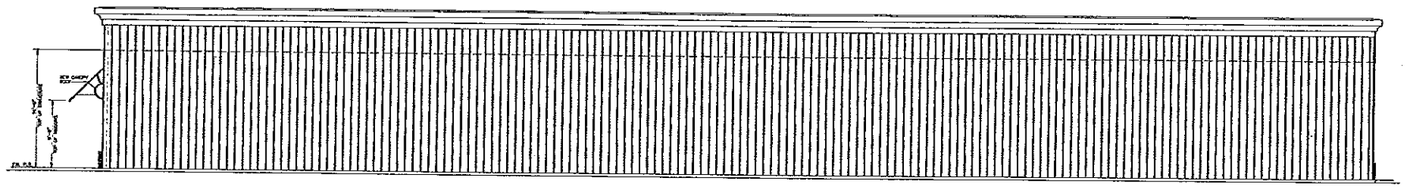
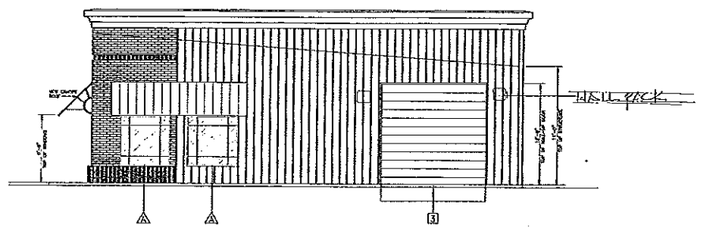


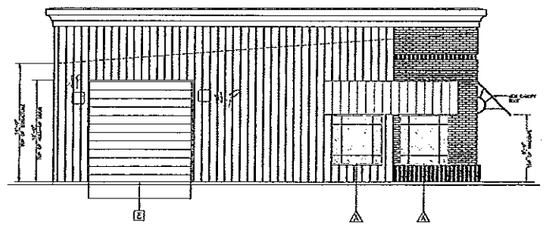
PROPOSED FRONT ELEVATION
SCALE: 1/8" = 1'-0"



PROPOSED REAR ELEVATION
SCALE: 1/8" = 1'-0"



PROPOSED RIGHT ELEVATION
SCALE: 1/8" = 1'-0"



PROPOSED LEFT ELEVATION
SCALE: 1/8" = 1'-0"

REVISIONS	BY

GREG AINSWORTH,
ARCHITECT

HIGHWAY 51 OFFICE
PARK

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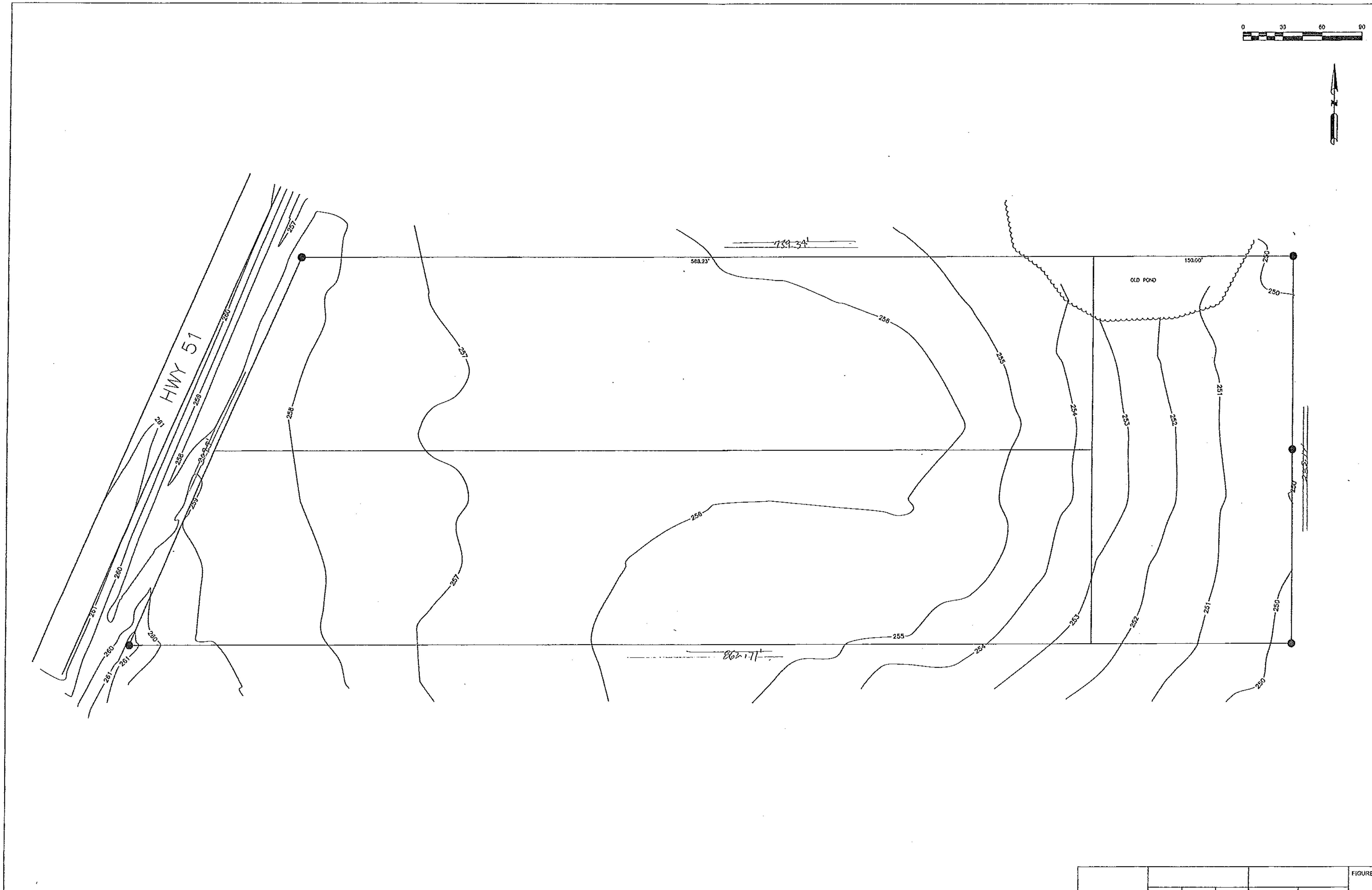
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Crowder Dealership

TRACE•LITE

commercial & industrial lighting

TLED-NFS

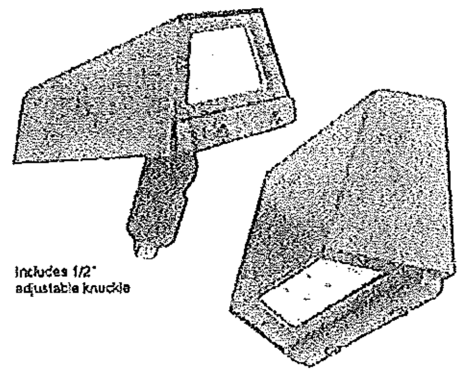
Nyte Forms Small LED Wallpack

Model ______ Date ______

Accessories ______

Job Name ______ Type ______

LEDLITE*logic*



10 YEAR WARRANTY · c UL us LISTED · DLC

Specs at a Glance	
Wattage (Nominal)	14.4W
Ingress Protection	UL Listed for Wet Locations
Lumens (5000K)	1322
Efficacy (5000K)	92
CCT	3000K, 4000K, 5000K
Input Voltage	120~277 Voltage Sensing
Optics	Type II Very Short
CRI	≥70
Warranty	10 Years
Ambient Temp	-31°F to 122°F (-35°C to 50°C)

DESCRIPTION

TRACE•LITE's Nyte Forms series of LED luminaires is a versatile family of unique lighting fixtures that can be utilized to satisfy multiple application requirements, from wallpacks to floodlights or inverted for use as a wall washer. All Nyte Forms luminaires are equipped with state of the art LED light engines that offer standard 0-10V dimming with excellent efficacies and lumen outputs. The superior thermal management maximizes the reliability and longevity that SSL systems can provide. The TLED-NFS series has an efficacy of 92 LPW with a delivered output of 1322 lumens. This allows the Nyte Forms series to be included on the DesignLights Consortium™ Qualified Products List, meeting or exceeding the efficacy requirements for various rebate programs across the country. State of the art technology combined with application versatility and design consistency makes our new Nyte Forms family of luminaires the logical choice for any project. Unit is now available with emergency battery backup providing emergency lighting at full lumen output.

SPECIFICATIONS

Construction:
The TLED-NFS has a precision designed aluminum housing with stainless steel hardware, tempered glass lens, silicone gaskets and a UV resistant, thermoset polyester powder coated finish. The TLED-NFS is completely sealed with silicone gaskets and is UL Listed for Wet Locations. The quick mount plate with built in bubble level allows for fast and easy installation. There is a knock-out in the top of the NFS housing to allow for the field installation of a photocontrol sensor. Thermal management is integral to the die-cast aluminum housing, with both the driver and the LED module each mounted directly to the housing in positions specifically designed to maximize heat dissipation and therefore increase the longevity reliability and performance of the TLED-NFS luminaire.

Optics:
The TLED-NFS series wallpack delivers exceptional light quality, with a standard correlated color temperature of 5000K with a CRI of ≥70 and optional CCTs of either 3000K or 4000K. The TLED-NFS LED light engine is fit with precision optical reflectors to distribute light forward and to the sides, producing an ideal wallpack distribution that maximizes fixture spacing while still delivering light where it is needed in the most efficient way possible. Producing 1322 delivered lumens, the TLED-NFS has an L70 of 100,000 hours.

Electrical:
The TLED-NFS includes 0-10V dimming as a standard option with LEDs powered by constant current high efficiency Class 2 LED driver with active power factor correction (0.98 typical), wet location rating, all around protection against over-voltage, over-temperature, short circuit conditions, and lightning. The TLED-NFS driver has a standard voltage sensing input of 120~277VAC 50/60Hz It features a Class A EMI rating and complies with UL8750 safety regulations and with ANSI/IEEE C62.41 Class A Operation. The TLED-NFS is suitable for operation in -31°F to 122°F (-35°C to 50°C) ambient conditions.

Thermal Management:
The LED module and driver are mounted directly to the purpose designed housing which functions as a dedicated, LEDLITE*logic* thermal heat sink. The heat sink is unique and has been sized to maximize the thermal dissipation of the wallpack housing. This configuration optimizes the heat removal for the LEDs and the driver, which makes possible the high efficacy, lumen output and longevity of the TLED-NFS.

Environmentally Friendly Design:
TLED-NFS luminaires consume very little energy and provide long life in comparison to traditional lamp technologies. The TLED-NFS consumes only 14 watts, but the light output can be conservatively compared to a 100W HID luminaire of similar design. The TLED-NFS provides a significant reduction in KW load and carbon emissions.

Installation:
The TLED-NFS series features a back plate design that can be easily mounted to any vertical surface, and is readily wired to a recessed J-box. A 1/2" knuckle mount is included as standard for floodlighting applications. Suitable for inverted mounting. Optional tamper-resistant hardware is available for applications where there is a high rate of vandalism, theft or in high traffic public spaces.

ARRA - Buy America (Option: USA):
Fixture series may be built to comply with the American Recovery and Reinvestment Act of 2009 (ARRA) requirements and Buy American provisions - call factory for details.

Emergency Battery Backup (Option: BB):
This option provides emergency powered illumination at full lumen output when the power goes out. Unit is complete with switchable AC operation for use as dusk to dawn with external photocontrol or use of a normally open switch Following the return of normal utility power, the charging circuit will bring the battery pack to full recharge in 24 hours. A test switch is provided for testing and monitoring of unit performance. The BB option is rated for operation between 32°F and 122°F (0°C and 50°C). Note: 0-10V dimming is not available when BB option is selected.

Internal Heater for Battery Backup (Option: IH1):
The internal heater is a voltage specific thermostat regulated heater that is designed to extend the operating temperature range of the Emergency battery (BB option) down to temperatures as low as -4°F (-20°C). *Available only when BB option is selected. Currently available for 120V system only.*

Photocontrol (Accessory: PC):
Optional field installed photocontrol provides dusk-to-dawn security. Input voltage must be specified to match the input voltage that will power the fixture.

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

Listing:
The TLED-NFS is UL certified under UL1598 specifications and is UL Listed for Wet Locations in all mounting configurations

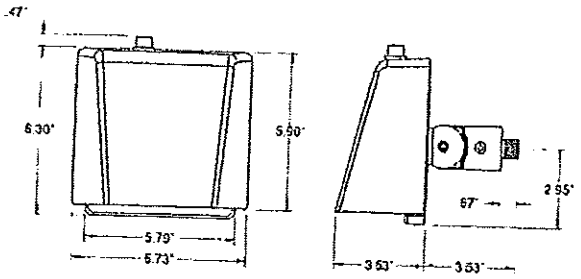
Warranty:
Up to 10 year warranty, see TRACE•LITE Terms and Conditions for details

Fixture Performance

Part Number	Total System Watts	Initial Lumens	Lumens Per Watt (LPW)	L70 Hours @ 25°C	BUG Ratings
TLED-NFS-14	14W	1322	92	100,000	B1-U0-G0

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

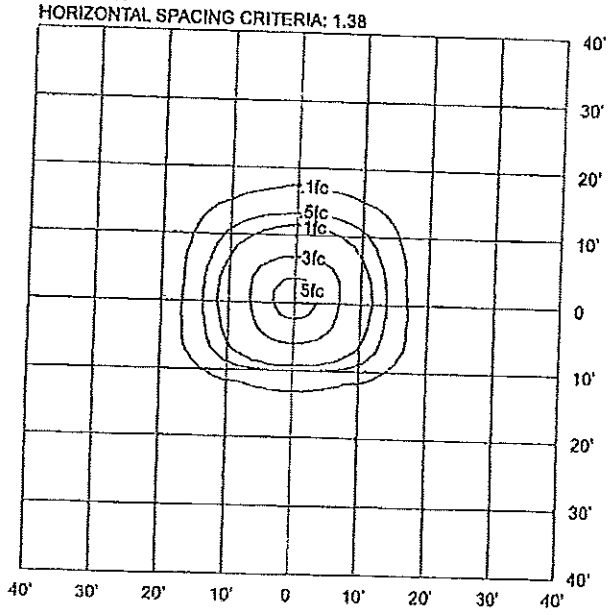
Dimensions



Approximate Weight: 4 lbs.

Sample Photometrics

TLED-NFS-14-VS-5K
IES: TYPE II VERY SHORT FULL CUTOFF
MOUNTING HEIGHT: 10 FEET
TILT: ZERO
HORIZONTAL SPACING CRITERIA: 1.38



Ordering Information

Example: TLED-NFS-14-VS-4K

Series	Nominal Wattage	Input Voltage	CCT Temperature	Finish	Options (Factory Installed)
TLED-NFS[1]	14 = 14 Watt	VS = 120-277VAC Voltage Sensing	3K = 3000K	BLANK = Bronze (Std.)	BB[2] = Battery Backup
			4K = 4000K	WH = White	IH1[3] = 120VAC Internal Heater for BB Option
			5K = 5000K (Std.)		USA = Meets Buy America Requirements

Notes

[1] Includes 1/2" knuckle mount standard

[2] 0-10V dimming not available with BB option

[3] Available with BB option only

[4] Not available on units with BB option. Remote or external photocells are compatible. Consult factory for details.

[5] Order as separate line item

Accessories[5] (Field Installed)

PC1[4] = 120VAC Photocontrol

PC2[4] = 277VAC Photocontrol

BARRON lighting group
800 533 3948 • www.barron3g.com

Crowder Dealership
Pole Light

Cree Edge™ Series

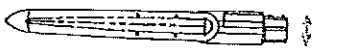
LED High Output Area/Flood Luminaire featuring Cree TrueWhite® Technology

Product Description

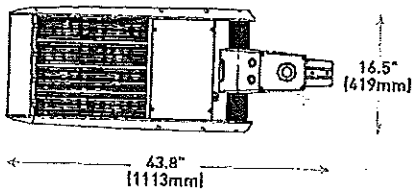
The Cree Edge™ High Output Area/Flood luminaire is designed to deliver high lumen packages with precise optical control. The unit features a slim, low profile design that minimizes wind load and a rugged die cast aluminum adjustable arm that mounts to a horizontal or vertical 2" (51mm) IP, 2.375-2.50" (60-64mm) O.D. steel tenon. Tenon length must be a minimum of 3.75" (95mm). The direct mount bracket accessory allows for further mounting flexibility. Available with Cree TrueWhite® Technology, the Cree Edge™ High Output helps to beautifully render true colors and deliver value beyond energy savings.

Applications: Auto dealerships, parking lots, campuses, facade lighting, high-mast and general site lighting applications

HV Mount (shown in horizontal position)

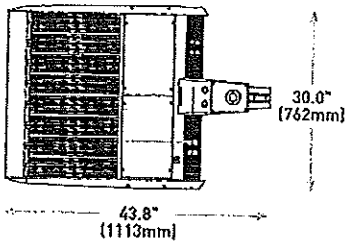


120 LED



NEMA® Photocell Receptacle location (ordered as an option)

240 LED



LED Count (x10)	Weight
12	45.3 lbs. (20.5kg)
24	80.5 lbs. (36.5kg)

HV Mount (shown in Vertical position) Direct Mount Bracket- see page 13 for weight & dimensions

Performance Summary

Utilizes Cree TrueWhite® Technology on 5000K Luminaires

Patented NanoOptic® Product Technology

Made in the U.S.A. of U.S. and imported parts

CRI: Minimum 70 CRI (4000K & 5700K); 90 CRI (5000K)

CCT: 4000K (+/- 300K), 5000K (+/- 300K), 5700K (+/- 500K) standard

Limited Warranty[1]: 10 years on luminaire/10 years on Colorfast DeltaGuard® finish

[1] See http://lighting.cree.com/warranty for warranty terms

Accessories

Field-Installed	
Bird Spikes XA-BRDSPKXAK12 - 120 LED XA-BRDSPKXAK24 - 240 LED	**Backlight Control Shields** XA-30BLS-4 - Four-pack for 120 LED - Unpainted stainless steel XA-30BLS-8 - Eight-pack for 240 LED - Unpainted stainless steel

Ordering Information

Example: ARE-EH0-2M-HV-12-E-UL-5V-700

				HV		E				
Product	**Optic**			**Mounting**	**LED Count (x10)**	**Series**	**Voltage**	**Color Options**	**Drive Current**	**Options**
ARE-EH0	2M Type II Medium 2MB Type II Medium w/BLS 3M Type III Medium	3MB Type III Medium w/BLS 4M Type IV Medium 4MB Type IV Medium w/BLS	5M Type V Medium 5S Type V Short AF Automotive Frontline-Optic™	HV Horizontal/ Vertical Tenon - For EH0-UNV direct mount bracket, refer to Tenons & Brackets on page 12	12 24	E	UL Universal 120-277V UH Universal 347-480V	BK Black BZ Bronze SV Silver WH White	700 700mA 1000 1000mA	DIM 0-10V Dimming - Control by others - Refer to Dimming spec sheet for details - Can't exceed specified drive current F Fuse - When code dictates fusing, use time delay fuse - Refer to ML spec sheet for availability with ML options - Not available with UH voltage ML Multi-Level - Refer to ML spec sheet for details - Intended for downlight applications at 0° tilt - Not available with UH voltage or 240 LEDs with 1000mA drive current R NEMA® Photocell Receptacle - 3-pin receptacle per ANSI C136.10 - Intended for downlight applications with maximum 45° tilt - Consult factory for vertical tenon application - Photocell and shorting cap by others - Refer to ML spec sheet for availability with ML options 40K 4000K Color Temperature - Minimum 70 CRI - Color temperature per luminaire 50K 5000K Color Temperature - Minimum 90 CRI - Utilizes Cree TrueWhite® Technology - Color temperature per luminaire
FLD-EH0	15 15° Flood 25 25° Flood	40 40° Flood 70 70° Flood	5N Sign NEMA® 6							

NOTE: Price adder may apply depending on configuration

Product Specifications

CREE TRUEWHITE® TECHNOLOGY

A revolutionary way to generate high-quality white light, Cree TrueWhite® Technology is a patented approach that delivers an exclusive combination of 90+ CRI, beautiful light characteristics and lifelong color consistency, all while maintaining high luminous efficacy – a true no compromise solution.

CONSTRUCTION & MATERIALS

- Slim, low profile, minimizing wind load
- Luminaire sides are rugged die cast aluminum with integral, weathertight LED driver compartments and high performance heat sinks
- Adjustable arm that mounts to a horizontal or vertical 2" (51mm) IP, 2.375-2.50" (60-64mm) O.D. steel tenon. Tenon length must be a minimum of 3.75" (95mm)
- Surface-mount directly to a vertical or horizontal surface with direct mount bracket (refer to Tenons and Brackets table on page 12)
- Luminaire may be field adjusted for use in uplight position. Please refer to installation instructions for details
- Extruded aluminum adjustable mounting shaft
- Luminaire is adjustable from horizontal 90° towards pole and 120° away from pole
- Exclusive Colorfast DeltaGuard® finish features an E-Coat epoxy primer with an ultra-durable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. Silver, bronze, black, and white are available
- Weight: See weight charts on pages 1 and 13

ELECTRICAL SYSTEM

- Input Voltage: 120-277V or 347-480V, 50/60Hz, Class 1 drivers
- Power Factor: > 0.9 at full load
- Total Harmonic Distortion: < 20% at full load
- Integral 10kV surge suppression protection standard
- To address inrush current, slow blow fuse or type C/D breaker should be used
- Maximum 10V Source Current: 120 LED: 0.40mA; 240 LED: 0.80mA

REGULATORY & VOLUNTARY QUALIFICATIONS

- cULus Listed
- Suitable for wet locations
- Consult factory for CE Certified products
- 10kV surge suppression protection tested in accordance with IEEE/ANSI C62.41.2
- Meets FCC Part 15, Subpart B, Class A standards for conducted and radiated emissions
- Certified to ANSI C136.31-2001, 3G bridge and overpass vibration standards
- DLC qualified. Exceptions apply when ordered with backlight control, 5000K CCT with 1000mA drive current, or 5000K CCT with 700mA drive current and 2M, 3M or 70 optics. Please refer to www.designlights.org/QPL for most current information
- Luminaire and finish endurance tested to withstand 5,000 hours of elevated ambient salt fog conditions as defined in ASTM Standard B 117
- Meets Buy American requirements within ARRA
- Dark Sky Friendly, IDA Approved. Please refer to www.darksky.org/ for most current information
- RoHS compliant. Consult factory for additional details

Electrical Data*

LED Count (x10)	System Watts 120-480V	Total Current					
		120V	208V	240V	277V	347V	480V
700mA							
12	267	2.24	1.29	1.12	0.99	0.80	0.58
24	533	4.49	2.57	2.24	1.97	1.62	1.16
1000mA							
12	421	3.61	2.06	1.80	1.61	1.25	0.90
24	831	7.16	4.04	3.54	3.14	2.50	1.81

* Electrical data at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-480V +/- 10%

Recommended Cree® Edge High Output Series Lumen Maintenance Factors (LMF)[1]

Ambient	Initial LMF	25K hr Projected[2] LMF	50K hr Projected[2] LMF	75K hr Calculated[3] LMF	100K hr Calculated[3] LMF
5°C (41°F)	1.04	0.99	0.97	0.95	0.93
10°C (50°F)	1.03	0.98	0.96	0.94	0.92
15°C (59°F)	1.02	0.97	0.95	0.93	0.91
20°C (68°F)	1.01	0.96	0.94	0.92	0.90
25°C (77°F)	1.00	0.95	0.93	0.91	0.89

[1] Lumen maintenance values at 25°C are calculated per TM-21 based on LM-80 data and in-situ luminaire testing
[2] In accordance with IESNA TM-21-11, Projected Values represent interpolated value based on time durations that are within six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing (DUT) i.e. the packaged LED chip
[3] In accordance with IESNA TM-21-11, Calculated Values represent time durations that exceed six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing (DUT) i.e. the packaged LED chip