

LIGHTING CALCULATIONS

CALCULATION SUMMARY		UNITS	SPAC	GROUP	FAVE	WALL	MIN	MAX MIN	MAX MAX
AREA NAME	PROJECT	13W	10.00	147	1.88	1.04	0.47	15.08	13.56
NEW AREA	13W	13W	10.00	147	1.88	1.04	0.47	15.08	13.56
THP	STIMUL	DESCRIPTION	LAMP	LUMENS	MOUNTING/BALLAST	LIF	QTY	MOUNT HEIGHT	
13W	13W	13W WLED13N (WALLPACK) - BLE	(1)	1602		1.00	25	8 FT	

NOTE: LIGHTING VALUES SHOWN IN GRAY ILLUSTRATE THE LIGHTING COVERAGE, WHILE THE LIGHTING VALUES SHOWN IN RED HAVE BEEN USED TO PERFORM THE LIGHTING CALCULATIONS

WPLED13N



LED 13W & 13 Wall packs feature pending thermal management system, 100,000 hour L70 lifespan, 5-year, no-compromise warranty.
Color: White Weight: 4 lbs

Technical Specifications

Compliance

UL Listed: Suitable for Wet Locations as a Chandelier, Suitable for Damp Locations as a Light, Wall Mount only, Suitable for Hoisting systems 4ft. of ground.

ESM LAM-79 & LAM-80 Testing

RAB LED luminaires and LED components have been tested by an independent laboratory in accordance with ESM LAM-79 and LAM-80.

DLC Listed

This product is on the Design Lights Consortium (DLC) Qualified Products List and is eligible for rebates from DLC Member Utilities. Designed to meet DLC S.C. requirements.

Performance

Lifespan: 100,000 Hour L70 lifespan based on ES LAM-80 results and TM-21 calculations.

Construction

Case Weather Rating: The minimum starting temperature is -40°C (-40°F).

RAB

Project: _____ Type: _____
Prepared By: _____ Date: _____

Driver Info		LED Info	
Type:	Constant Current	Watts:	13W
Input:	120V 0.11A	Color Temp:	4000K (Neutral)
Output:	23W 0.01A	Color Rendering:	90 CRI
Input Voltage:	240V 0.06A	L70 Lifespan:	100,000 Hours
Input Current:	277V 0.05A	Lumens:	1602
Input Power:	14.8W	Efficiency:	111 Lm/W

Maximum Ambient Temperature

Suitable for use in up to 55°C (131°F)

Peak:

Formulated for high durability and long lasting color.

Green Technology:

Mercury and UV Free, RoHS-compliant components.

Qualities:

High temperature Silicone

Electrical:

Driver: Constant Current, Class 2, 120-277V, 50/60Hz, 120V @ 1.1A, 200W @ 0.01A, 240V @ 0.06A, 277V @ 0.05A

Dimming Driver:

Driver includes dimming control wiring for 0-10V dimming systems. Requires separate 0-10VAC dimming circuit. Dim to 10%.

THD:

7.28% at 120V, 15.05% at 277V

Power Factor:

99% at 120V, 96.4% at 277V

Surge Protection:

4x1

WPLED13N

Color Uniformity: RAB's range of Combined Color Temperature follows the guidelines of the American National Standard for Specifications for the Character of Day State Lighting (ANSI C78.377-2017).

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

Color Constancy: The LED will deliver 70% of its initial lumens at 100,000 hours of operation.

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

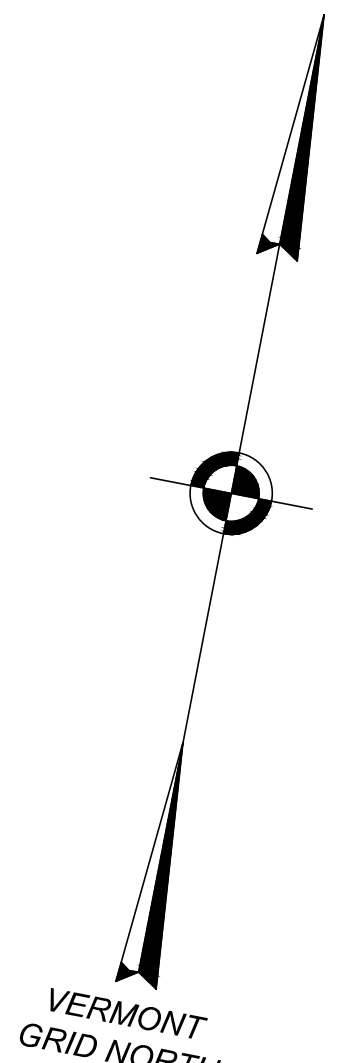
Warranty: RAB warrants that our LED products will be free from defects in material and workmanship for a period of 10 years from the date of delivery to the end user, including coverage of light output color stability, driver performance and fixture finish. RAB's warranty is subject to all terms and conditions found at rablighting.com/warranty.

Equivalency: Equivalent to 20W Metal Halide

Optical: BUG Rating: 81 Lx 0.0

Dimensions: [Diagram showing dimensions of the fixture]

Features: High performance LED light engine. Maintains 70% of initial lumens at 100,000 hours. Weatherproof high temperature silicone gaskets. Superior heat sinking with dual aluminum housing and external fan. 5-Year, No-Compromise Warranty.



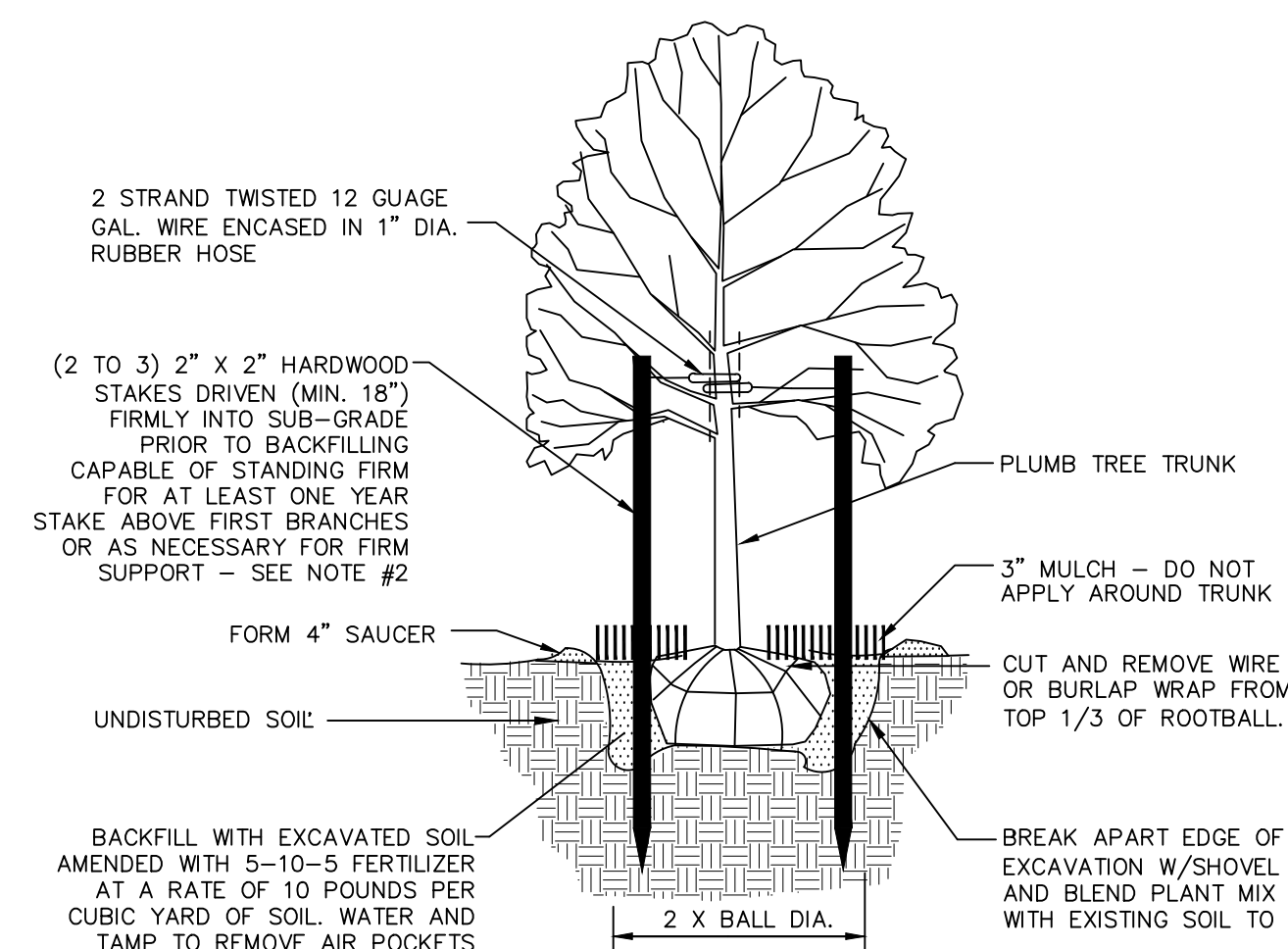
LANDSCAPING SPECIFICATIONS

ALL DISTURBED AREAS SHALL BE STABILIZED WITH SEEDING AND MULCHING PRIOR TO NOVEMBER 1 OF EACH YEAR. ANY DISTURBED AREAS SHALL BE IMMEDIATELY SEEDED AND MULCHED WITHIN 15 DAYS. ANY WORK PERFORMED AFTER NOVEMBER 1 OF EACH YEAR SHALL BE STABILIZED WITH MULCH OR NETTING SUFFICIENT TO PREVENT EROSION AND SHALL BE IMMEDIATELY SEEDED AND REMULCHED AS SOON AS WEATHER PERMITS IN THE SPRING. ALL DISTURBED AREAS SHALL RECEIVE A MINIMUM OF 4" OF TOPSOIL AND BE SEEDED, FERTILIZED, LIMED, AND MULCHED IN ACCORDANCE WITH THE FOLLOWING:

- SEED MIXTURE IN ALL AREAS SHALL BE URBAN MIX CONFORMING TO THE TABLE SHOWN ON THE PLANS FOR SEEDING BETWEEN SEPTEMBER 1 AND NOVEMBER 1, WINTER RYE SHALL BE USED AT AN APPLICATION RATE OF 100 POUNDS PER ACRE.
- FERTILIZER SHALL BE STANDARD COMMERCIAL GRADE CONFORMING TO THE STATE FERTILIZER LAW AND TO THE STANDARDS OF THE ASSOCIATION OF OFFICIAL AGRICULTURAL CHEMISTS. DRY FERTILIZER, IF USED, SHALL BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE. LIQUID FERTILIZER, IF USED, SHALL BE APPLIED IN A 1-2-1 RATIO WITH THE MINIMUM RATE TO INCLUDE 100 POUNDS OF NITROGEN, 200 POUNDS OF PHOSPHATE, AND 100 POUNDS OF POTASH PER ACRE.
- LIMESTONE SHALL CONFORM TO ALL STATE AND FEDERAL REGULATIONS AND TO THE STANDARDS OF THE ASSOCIATION OF OFFICIAL AGRICULTURAL CHEMISTS. THE LIMESTONE SHALL BE APPLIED AT A RATE OF TWO TONS PER ACRE OR AS DIRECTED.
- WITHIN 24 HOURS OF APPLICATION OF FERTILIZER, LIME, AND SEED, THE SURFACE SHALL BE MULCHED WITH A LIGHT MULCH. MULCH SHALL BE SPREAD UNIFORMLY OVER THE AREA AT A RATE OF TWO TONS PER ACRE OR AS ORDERED BY THE ENGINEER.

URBAN MIX GRASS SEED

% BY WEIGHT	LBS. LIVE SEED PER ACRE	TYPE OF SEED
37.5	45	CREeping RED FESCUE
31.25	37.5	KENTUCKY BLUEGRASS
31.25	37.5	WINTER HARDY, PERENNIAL RYE
100	120 # LIVE SEED PER ACRE	



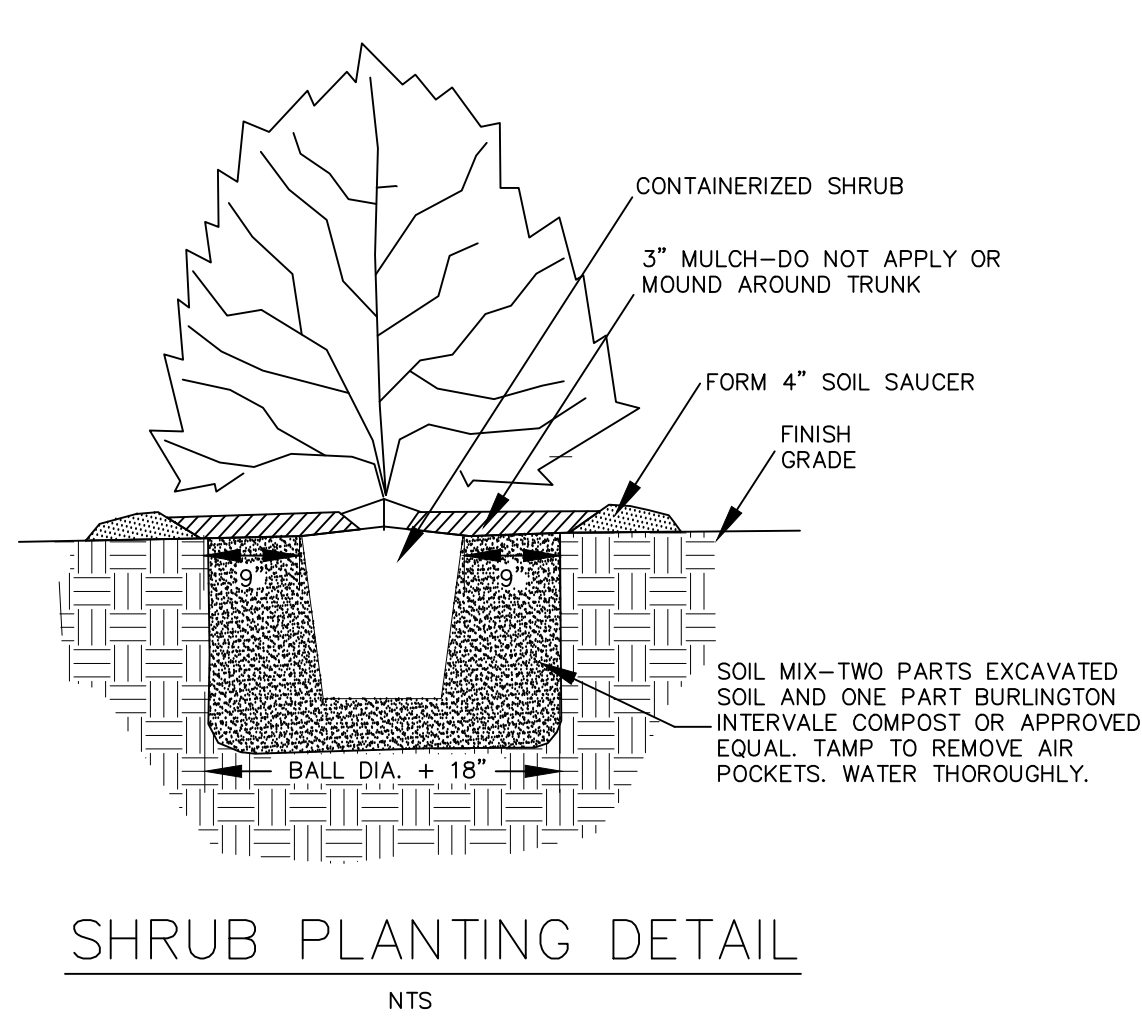
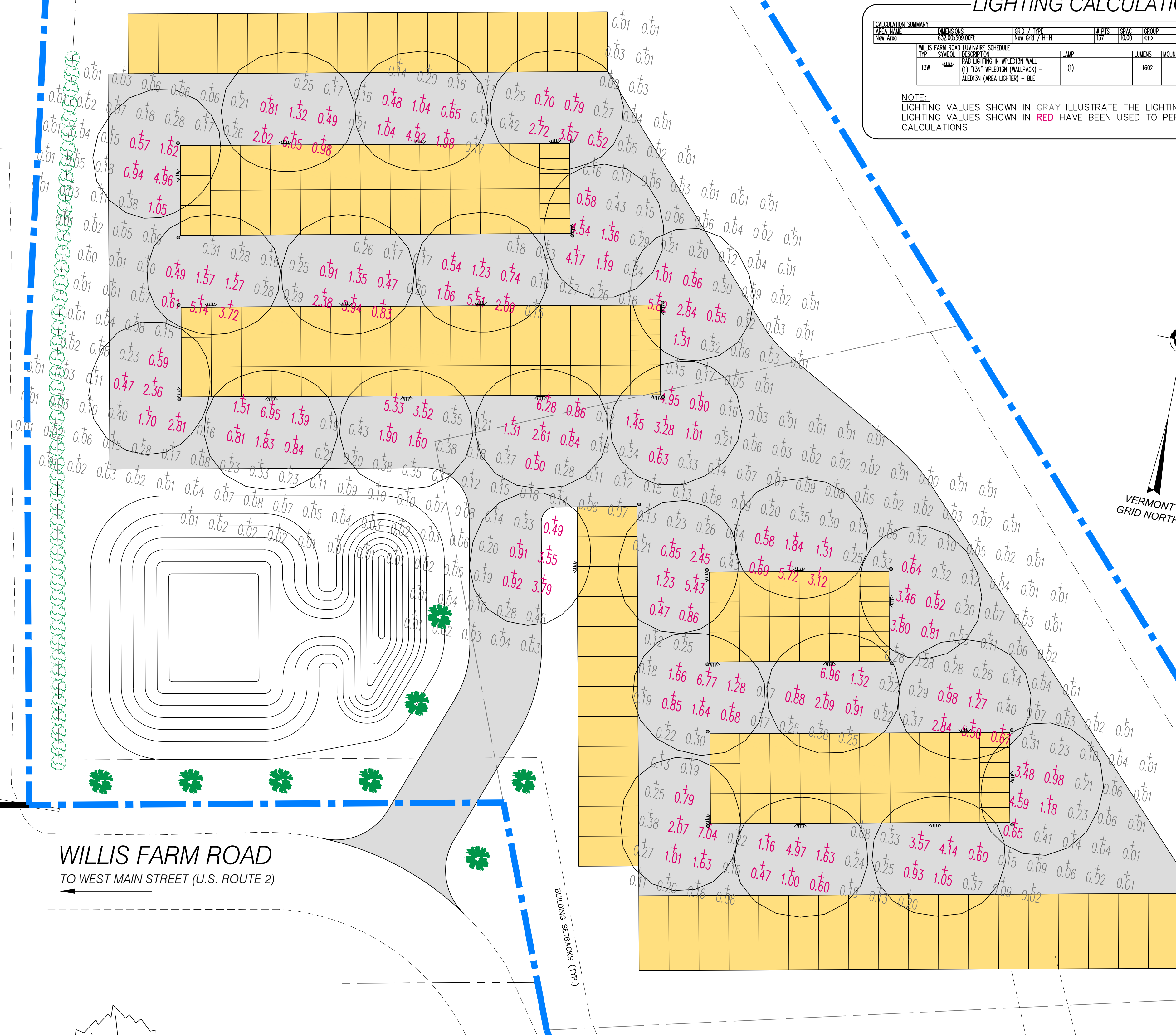
- NOTE:**
- PLANT TREE SO THAT TOP OF ROOT BALL IS EVEN WITH THE FINISHED GRADE.
 - STAKING AS REQUIRED ONLY IN SITUATIONS WHERE TREES WILL BE SUBJECTED TO WINDY CONDITIONS AS DETERMINED BY THE PROJECT LANDSCAPE ARCHITECT.
 - TREES SHALL BE GUARANTEED FOR A PERIOD OF THREE YEARS AFTER PLANTING.
 - EXAMINE ENTIRE TREE AND REMOVE ALL NURSERY TAGS, ROPE, STRING AND SURVEYORS TAPE PRIOR TO PLANTING TO PREVENT GIRDLING.

TREE PLANTING SCHEDULE

SYMBOL	QUANTITY	COMMON NAME	BOTANIC NAME	SIZE	COST
	8	RED MAPLE	ACER RUBRUM	2-1/2" CALIPER	\$600 EACH / \$4,800
	49	EASTERN RED CEDAR	JUNIPERUS VIRGINIANA	3-4 FT	\$200 EACH / \$9,800
TOTAL	57				\$14,600

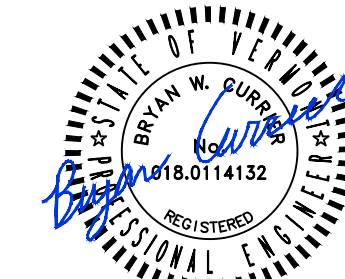
NOTES:

- THIS PLAN IS NOT INTENDED TO CONVEY PROPERTY BOUNDARIES.



LEGEND

	PROJECT BOUNDARY		PROPOSED 10' X 25' BUILDING
	PROPERTY BOUNDARY		PROPOSED 10' X 20' BUILDING
	BUILDING SETBACK		PROPOSED 10' X 15' BUILDING
	EXISTING MAJOR CONTOUR (U.S.G.S. DATUM)		PROPOSED 10' X 10' BUILDING
	EXISTING MINOR CONTOUR (U.S.G.S. DATUM)		PROPOSED 5' X 10' BUILDING
	EXISTING EDGE OF GRAVEL		
	USDA MAPPED SOILS AND SOIL TYPE		
	PROPOSED WALL MOUNTED LIGHT		



DATE: 12/8/2023 REVISION: ADDING MOUNT HEIGHT TO LIGHTING CALCULATIONS

SURVEY: OBCA RECORD DRAWING PRELIMINARY

DESIGN: BWC/JFW FINAL SKETCH/CONCEPT

DRAWN: JFW

CHECKED: BWC

SCALE: 1"=20'

O'LEARY-BURKE CIVIL ASSOCIATES, PLC

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WILLIS FARM ROAD - LOT 4

RICHMOND, VT

LIGHTING & LANDSCAPING PLAN

DATE: 11-20-2023
JOB#: 2014-14
FILE: 2014-14-S19
PLAN SHEET # **5**

THE CONTRACTOR SHALL NOTIFY "DIGSAFE" AT 1-888-DIG-SAFE PRIOR TO ANY EXCAVATION.