

July 20, 2023

Re: Terra Linda High School Safety Lights

Dear Neighbor:

On behalf of the San Rafael City Schools Board of Trustees, District staff continue to implement the 2015 voter approved Measure B Bond. As a part of that program we are currently resurfacing and grading the parking lot and accessible path of travel at the front of the Terra Linda High School and District Offices.

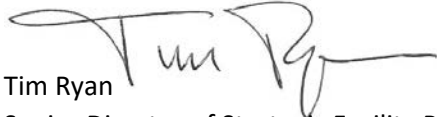
We are writing to ensure you are aware that behind your home along the property line there will be new safety light posts installed. We have made it clear that there must be no light spill into the neighbor's backyards. These new LED lights will be 12' high, controlled through a separate timing system, be on motion sensors, be off or very dim until someone activates them, and will have back shields in the LED lights to direct the light only into parking lot.

These fixtures are very directional, when coupled with the shields will do a good job of light directional control. These lights are on a separate circuit so we can adjust their schedules.

Here is a link to see the layout and the fixture <https://www.srcsbondprogram.org/Page/1>

If you have any questions please feel free to contact me directly at (415) 492-3285.

Regards:

A handwritten signature in black ink, appearing to read 'Tim Ryan', with a stylized flourish at the end.

Tim Ryan
Senior Director of Strategic Facility Planning
San Rafael City Schools



TLHS East Parking Lot Quad Project - Photometric Analysis / Parking Lot Illumination Study

To follow up with our conversation, please see the image below of the BLC optic.

As discussed, the 'back' of each LED has an internal 'shield' to prevent backlight and view of the backs of the LEDs from the backside of the pole.

Backlight control option



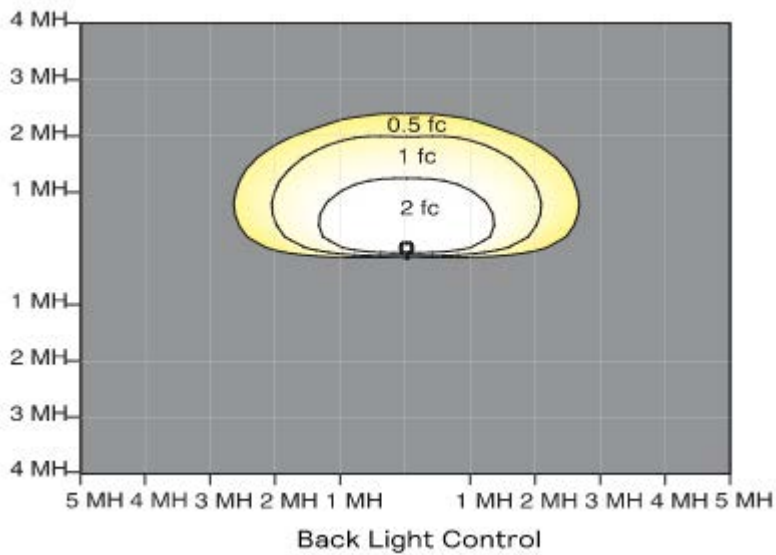
PureForm's backlight control (BLC) optical system can be used to eliminate backlight. These shields are ideal for applications with stringent light trespassing outside property line.

Optical systems

Type 2 Medium, Type 3 Medium, Type 4 Short, and Type 5 Short distributions available. Internal Shield option mounts to LED optics and is available with Type 2, 3, and 4 distributions including a dedicated BLC optic to provide the best backlight control possible for those stringent requirements around property lines. Performance tested per LM-79 and TM-15 (IESNA) certifying its photometric performance. Luminaire designed with 0% uplight (U0 per IESNA TM-15).

I have confirmed that we specified the BLC optic that is better at mitigating backlight

Here is the optical performance of that optic.



Please also note that these luminaires are specified with bi-level occupancy sensors so when the lot is not occupied, these luminaires will operate at 50% (field programmable) of their full output.

Also, even though the anchor bases are raised to protect these luminaires from vehicles, we specified these luminaires with 9.5' poles so their overall height will only be 12' above grade.

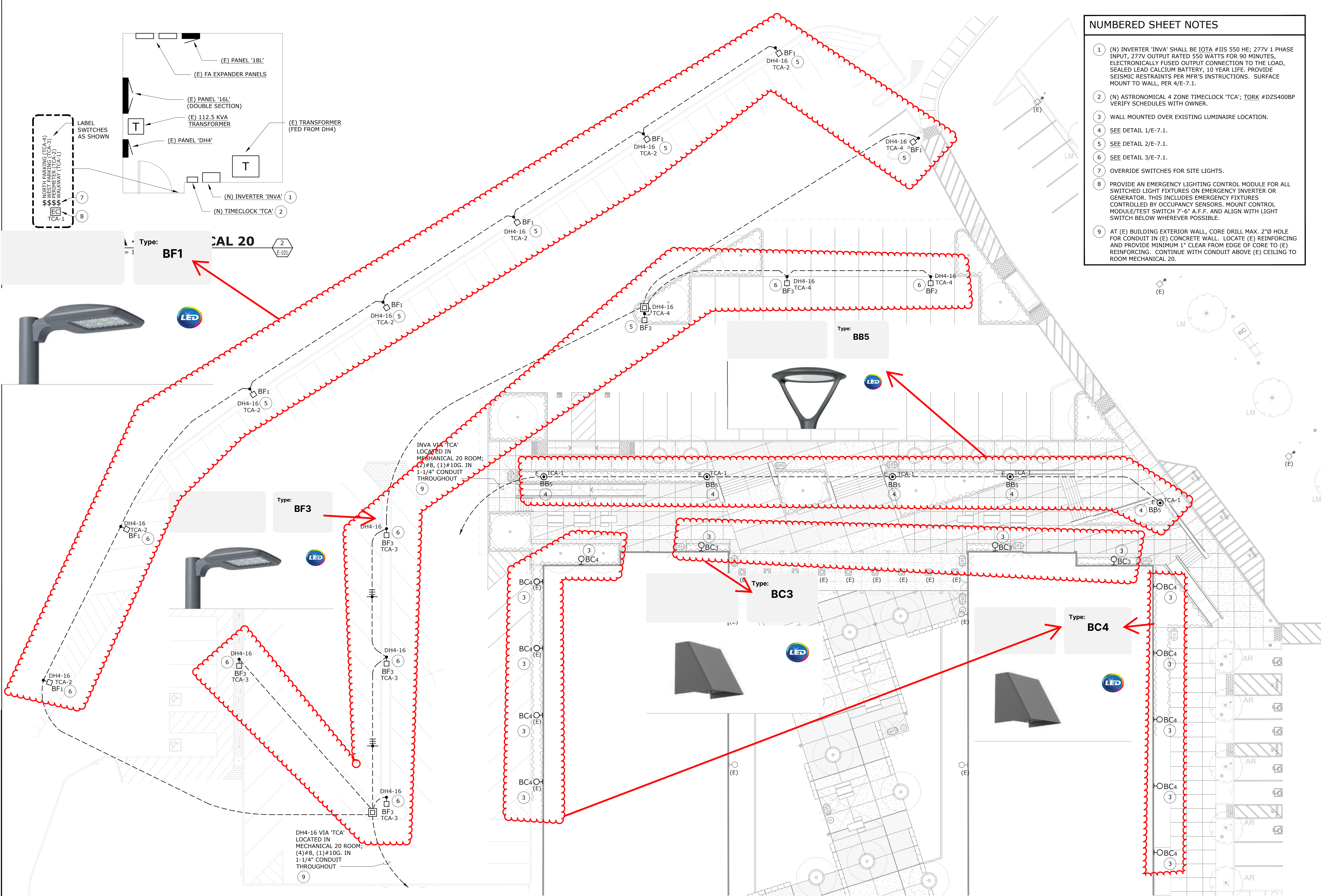
Please let us know if you have any questions.

Thank you,

David Orgish, MIES, LEED^{AP}

O'MAHONY & MYER

ELECTRICAL ENGINEERING and LIGHTING DESIGN



SITE PLAN - LIGHTING NORTH
SCALE: 1/16" = 1'-0"

NUMBERED SHEET NOTES

- (N) INVERTER 'INVA' SHALL BE IOTA #IIS 550 HE; 277V 1 PHASE INPUT, 277V OUTPUT RATED 550 WATTS FOR 90 MINUTES, ELECTRONICALLY FUSED OUTPUT CONNECTION TO THE LOAD, SEALED LEAD CALCIUM BATTERY, 10 YEAR LIFE. PROVIDE SEISMIC RESTRAINTS PER MFR'S INSTRUCTIONS. SURFACE MOUNT TO WALL, PER 4/E-7.1.
- (N) ASTRONOMICAL 4 ZONE TIMECLOCK 'TCA'; TORK #DZS400BP VERIFY SCHEDULES WITH OWNER.
- WALL MOUNTED OVER EXISTING LUMINAIRE LOCATION.
- SEE DETAIL 1/E-7.1.
- SEE DETAIL 2/E-7.1.
- SEE DETAIL 3/E-7.1.
- OVERRIDE SWITCHES FOR SITE LIGHTS.
- PROVIDE AN EMERGENCY LIGHTING CONTROL MODULE FOR ALL SWITCHED LIGHT FIXTURES ON EMERGENCY INVERTER OR GENERATOR. THIS INCLUDES EMERGENCY FIXTURES CONTROLLED BY OCCUPANCY SENSORS. MOUNT CONTROL MODULE/TEST SWITCH 7'-6" A.F.F. AND ALIGN WITH LIGHT SWITCH BELOW WHEREVER POSSIBLE.
- AT (E) BUILDING EXTERIOR WALL, CORE DRILL MAX. 2"Ø HOLE FOR CONDUIT IN (E) CONCRETE WALL. LOCATE (E) REINFORCING AND PROVIDE MINIMUM 1" CLEAR FROM EDGE OF CORE TO (E) REINFORCING. CONTINUE WITH CONDUIT ABOVE (E) CEILING TO ROOM MECHANICAL 20.

**TERRA LINDA
HIGH SCHOOL**

**EAST PARKING
LOT QUAD**

320 NOVA ALBION WAY
SAN RAFAEL CA 94903

**SAN RAFAEL CITY
SCHOOLS**

REVISIONS

DSA APP NO. 01-120337
ARCH PROJECT NO: 2003.00
DRAWN BY:
DRAWING SCALE: AS NOTED
PTN: 65466-44 FILE NO: 21-H1

CD
JANUARY 18, 2023
SHEET TITLE

**SITE PLAN -
LIGHTING
NORTH**

SHEET NUMBER

E-101