

CARE Committee

From: County Clerk
Sent: Tuesday, September 6, 2022 2:19 PM
To: CARE Committee
Subject: FW: Maui County Committee meeting - CARE - September 8th 1:30pm - Bill 21, CD1
Attachments: Summary - terminology - examples.pdf

From: Eric Miyasato <eric@hawaiianlights.com>
Sent: Tuesday, September 6, 2022 2:17 PM
To: County Clerk <County.Clerk@mauicounty.us>
Subject: Maui County Committee meeting - CARE - September 8th 1:30pm - Bill 21, CD1

County Clerk,

Attached is my testimony for the meeting this week on the Bill 21, CD1

Thank you.

Eric Miyasato
808-226-5973

Florida Fish & Wildlife

See page 2 -
Defined Turtle
nesting areas

Use long wavelength (greater than 560 nm AND absent wavelengths below 560 nm) light sources such as amber, orange, or red LEDs without the use of filters, gels, or lenses. Using long wavelength light sources is less disruptive to marine turtles than white or multi-colored lights.

Coastal Construction Control line (CCCL) regulates structures and activities that cause beach erosion, destabilize dunes, damage upland properties or interferes with public access. Also protects sea turtles and dune plants.

IDA – International Dark Sky

- 3000K maximum.
- Adaptive Controls
- Shielding
- Motion control lights

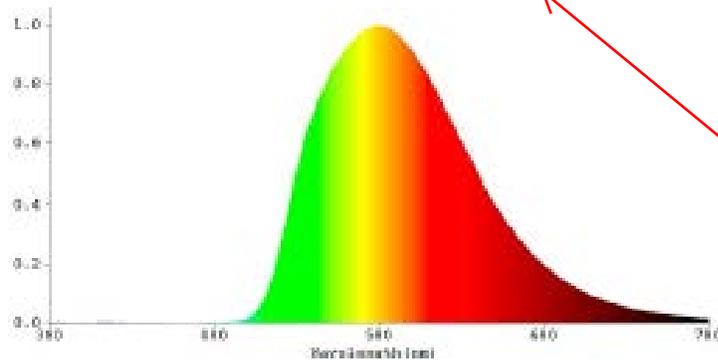
See page 4-6 for
examples

IECC – 2015 (International Energy Conservation Code) (Current standard)

- Section C405.2.5
 - Exterior lighting Controls
 - Auto Off when Daylight available
 - Façade, landscape lights auto off as a function of dusk/dawn and open/close times.
 - Reduce all other lighting $\geq 30\%$ no later than midnight to 6AM, one hour after closing to one hour before opening, or when no activity is detected for >15 minutes.
 - Exceptions
 - Emergency Lighting Normally off
 - Lighting for Health & Safety
 - Covered Vehicle entrances
 - Building/parking structures exits for safety, security, or eye adaptation.

Current Building
department review
for exterior lights

FILTERED LED



Big Island - typical filtered LED

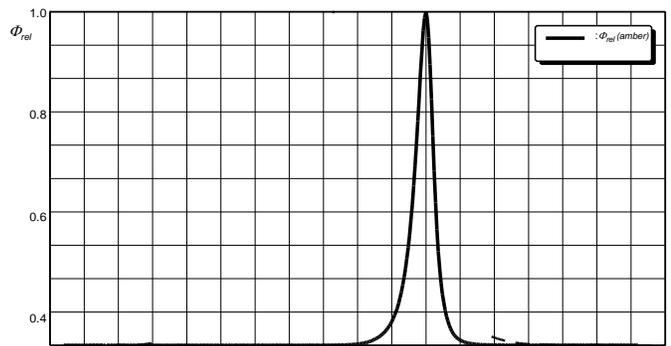
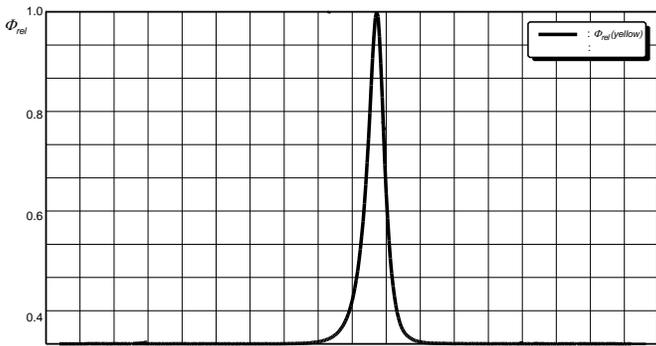
Spectrum Parameters
 Blue content (400nm-700nm): 0.14% Peak wavelength: 579nm

LED Spectral Emissions

— LED Output

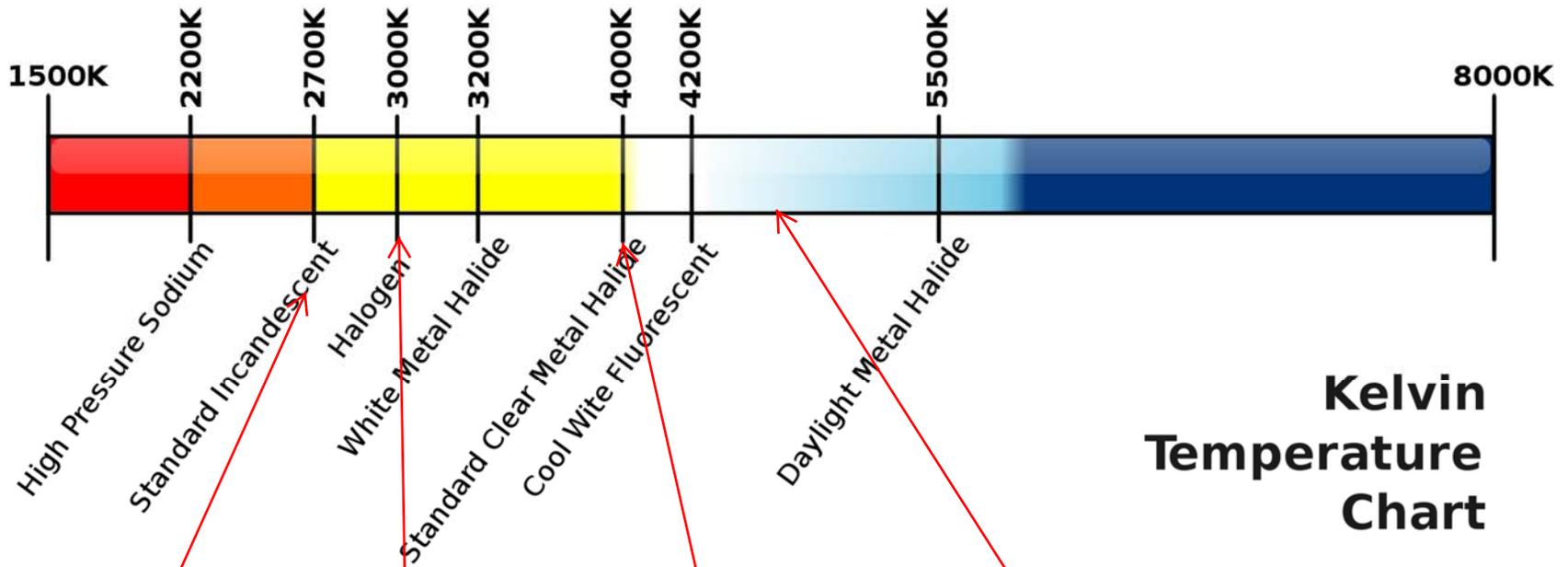
Environmental Yellow / Amber
 590nm peak (583nm min, 595nm max)

Option -ERO (Environmental Red / Orange)
 617nm peak (609nm min, 624nm max)



Amber LED

Red LED



Kelvin Temperature Chart

Darksky.org

2700K is used on GE LED Cobrahead by County

International Dark Sky - maximum recommendation

State DOT Maximum

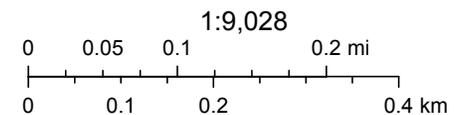
5000K - typical standard for Baseball & Football

Coastal Construction Control Line



September 1, 2022

- CCCL Coastal Range Monuments
- ▲ Range Monuments

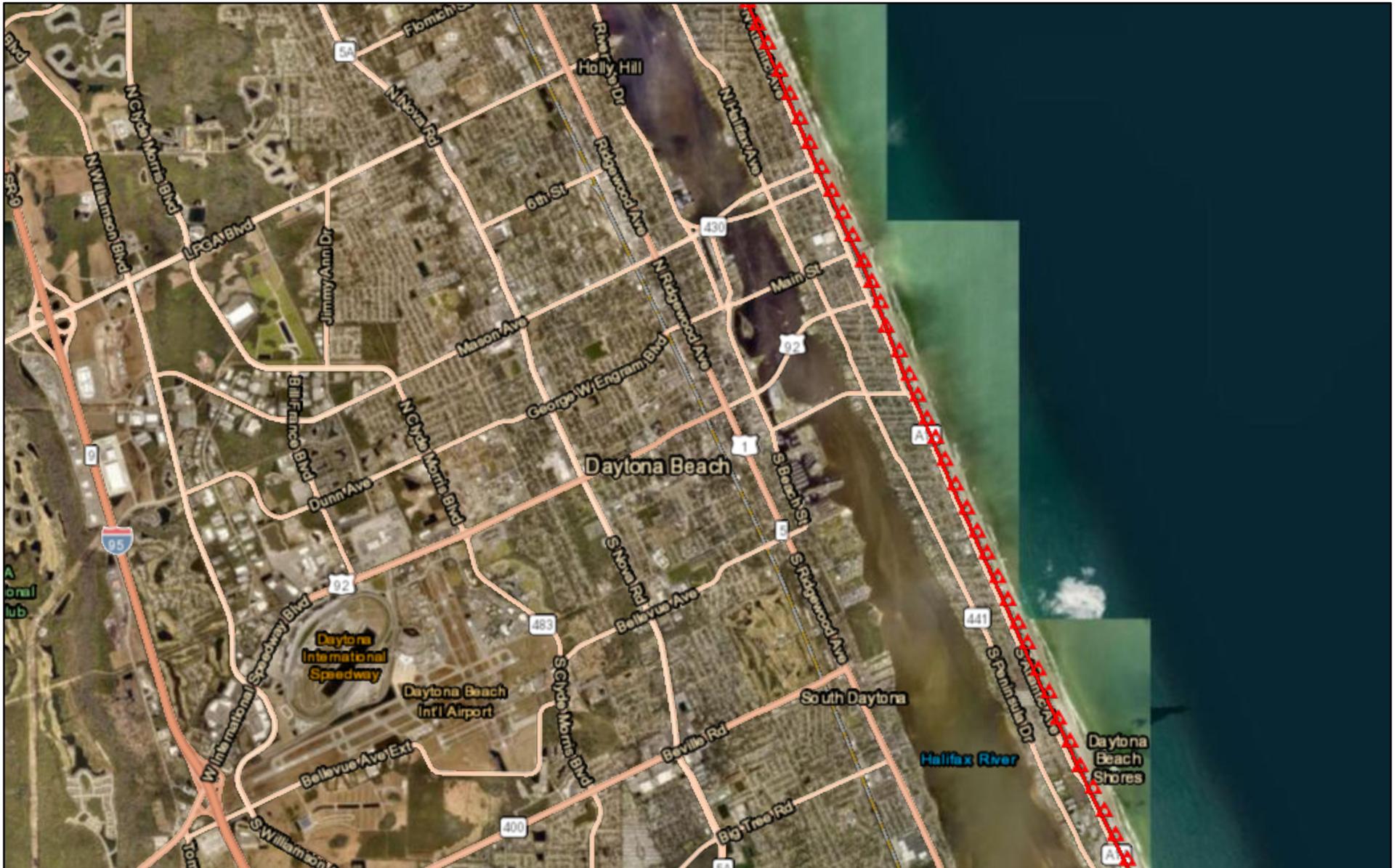


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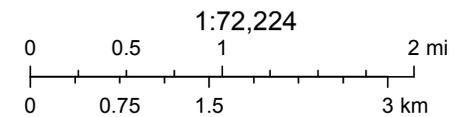
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Coastal Construction Control Line



September 1, 2022

- CCCL Coastal Range Monuments
- ▲ Range Monuments

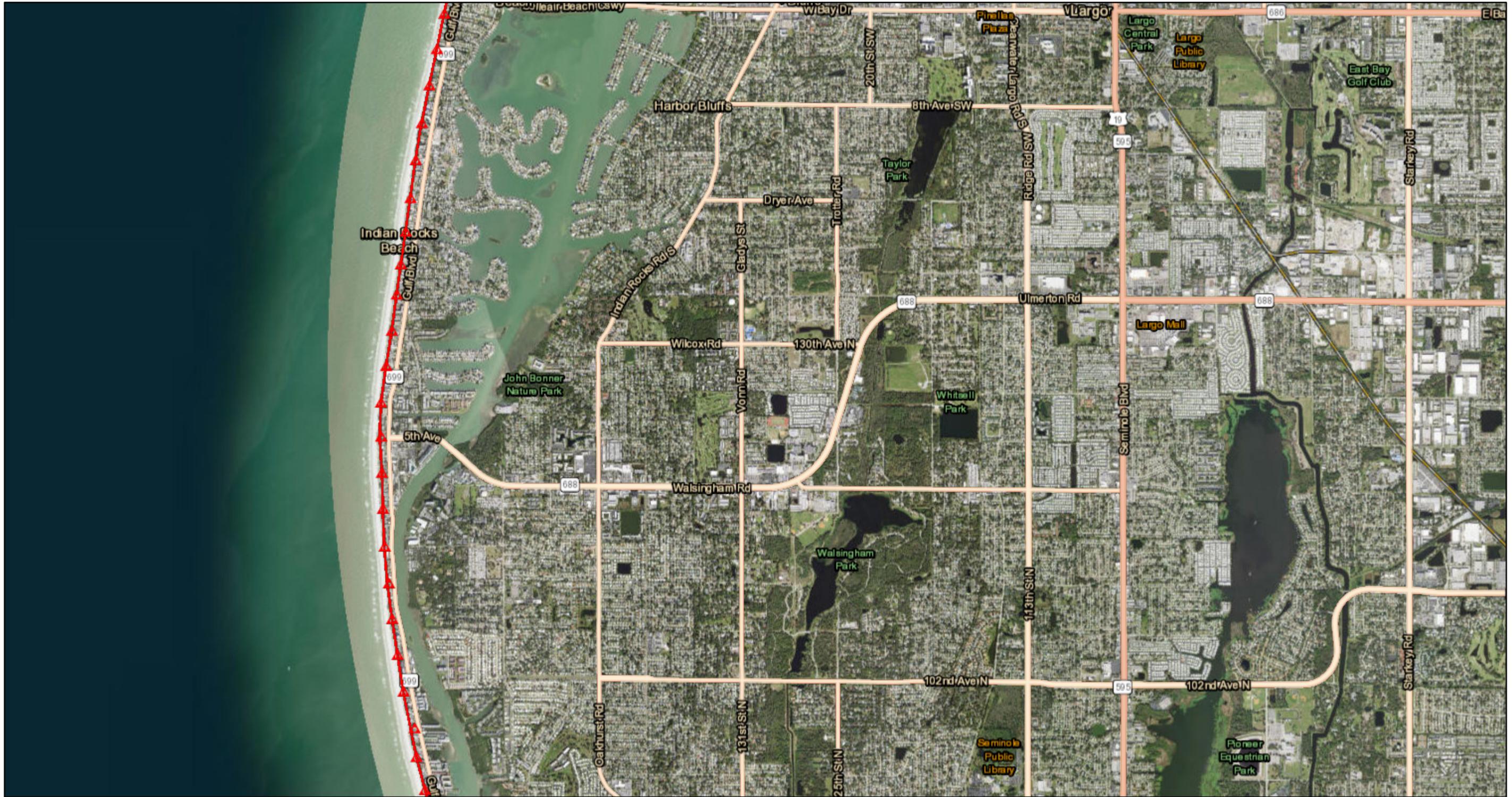


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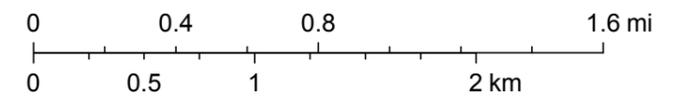
Coastal Construction Control Line



September 1, 2022

1:36,112

- CCCL
- Coastal Range Monuments
- ▲ Range Monuments



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