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**From:** [Mike Murray](#)  
**To:** [Butch Street](#)  
**Cc:** [Darrell Echols](#); [Norah Martinez](#); [Beau Brehm](#); [Dennis McGinnis](#); [Sandra Hamilton](#)  
**Subject:** Fw: Traffic Counter Location Proposal  
**Date:** 01/16/2009 08:21 AM  
**Attachments:** [CAHA Traffic Counter Placement proposal.Jan 09.pdf](#)

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Hi Butch,

I'm sure you are swamped with the inauguration. After it is over, would you please take a look at the attached proposal describing the locations for 5 imbedded loop traffic counters. We would appreciate your advice as to whether this sounds like an effective approach.



CAHA Traffic Counter Placement proposal.Jan 09.pdf

Thanks,

Mike Murray  
Superintendent  
Cape Hatteras NS/ Wright Brothers NMem/ Ft. Raleigh NHS  
(w) 252-473-2111, ext. 148  
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----- Forwarded by Mike Murray/CAHA/NPS on 01/15/2009 12:14 PM -----

**Beau  
Brehm/CAHA/NPS**

To: Mike Murray/CAHA/NPS@NPS  
cc

01/15/2009 10:15 AM

Subject: Re: Traffic Counter Location Proposal

Mike,

Attached is the revised version of the counter location proposal.

I have inspected the shipment we received and we have:

- 5 Counters
- 5 Counter connectors that splice into inductive wire
- 5 Metal Boxes to put them in.

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5 Steel poles that boxes mount to.  
Mounting Hardware for each box and pole

What I cannot find is the inductive wire that attaches to the counter connectors and is imbedded into the asphalt. Do we need to provide this on our own and if so, what type of wire do we need to buy?

Thank you,

Beau J Brehm  
Office Automation Clerk  
National Park Service/Outer Banks Group  
252-473-2111 ext 155

### **Inductive Loop ORV Traffic Counter Placement Selections**

An Inductive loop traffic counter operates by a loop embedded within asphalt that creates a magnetic field that registers when a vehicle travels over the loop. The Seashore currently has several Inductive loop counters installed. To work in conjunction with these counters located at the park entrance on HWY 12, Bodie Island Lighthouse Rd, and the Lighthouse Rd in Buxton the Seashore ordered additional units. In a conference call on 12/4/08 in cooperation with Butch Street discussions took place in regards to establishing Inductive Loop traffic counters within the seashore. As a result of recommendations by Butch Street and in an effort to achieve more accurate results in regards to ORV traffic patterns five sites were chosen for the placement of inductive loop traffic counters in the Cape Hatteras National Seashore. These sites were chosen because they meet the guidelines necessary for the counters to perform properly and record useful data.



#### **Ramp 2 (Coquina Beach)**

- Ramp 2 has an asphalt roadway that is separate from HWY 12 and Coquina Beach Parking Lot by which ORV vehicles enter the beach access ramp
- This asphalt roadway sole purpose is to create an ORV access point and therefore eliminates all local traffic and confines traffic count to ORV usage.
- Usage amounts that are indicative of ORV traffic patterns of beach access ramps in the surrounding area.



#### **Ramp 34**

- Ramp 34 access point extends off of the paved parking lot located next to it.
- ORV traffic accessing the beach via ramp 34 cross this asphalt parking lot and thus eliminating local traffic traveling on HWY 12
- Usage amounts that are indicative of ORV traffic patterns of beach access ramps in the surrounding area.



#### Ramps 43/44

- Lighthouse Rd which provides access to Ramps 43 & 44 is a paved roadway
- Once you pass the Cape Point Campground on Lighthouse Rd there is nothing except beach access routes. Thus eliminating local traffic and specifically targeting ORV usage
- Usage amounts that are indicative of ORV traffic patterns of beach access ramps in the surrounding area.



#### Ramp 55

- Ramp 55 has asphalt roadway leading up to the ramp that is separate from HWY 12 by which ORV traffic would access the beach via an access ramp.
- There is nothing else located past the asphalt except Ramp 55 and Pole Rd., which both provide beach access. Thus eliminating all local traffic and specifically tracking ORV usage.
- Usage amounts that are indicative of ORV traffic patterns of beach access ramps in the surrounding area.



#### Ramp 70

- Ramp 70 is located off a paved rd that provides access to the Ocracoke Airstrip.
- This paved rd has a strip of asphalt past the airport parking lot but before the ramp which would only be traveled for the purpose of ORV beach access via Ramp 70
- Usage amounts that are indicative of ORV traffic patterns of beach access ramps in the surrounding area.