



Lincoln County

PUBLIC WORKS

27234 SR 25 N
Davenport, WA 99122

Richard T. Becker
Public Works Director

Phone: 509-725-7041
Fax: 509-725-4467
Scan: 509-456-3092

March 3, 2011

ATTN Derek Pohle
Public Works Director
Grant County Public Works
QUADCO Lead Agency
124 Enterprise St. S.E.
Ephrata, WA 98823

RE: Application for SFY12/13 UPWP Project Funding

QUADCO RTPO - UPWP Project Selection Committee,

As all of you are aware, new federal traffic sign standards now requires all agencies to implement a traffic sign maintenance program and to begin meeting new minimum sign retroreflectivity requirements for all traffic signs. This will require Lincoln County to establish a sign maintenance program by January 2012, and to meet new minimum retroreflectivity requirements for certain signs by target dates of January 2015 and January 2018.

Lincoln County respectfully submits application for UPWP funds to purchase a very much needed sign retroreflectometer for use to implement its required sign maintenance program and meet the new federal requirements.

Lincoln County will make the equipment available to all local agencies through interlocal agreement. This will provide for a cost effective way for our local agencies to also fulfill the new federal requirements.

We respectfully request that the Selection Committee consider and select this much needed project for receipt of SFY 2012-2013 UPWP funding.

Please don't hesitate to call me if you have any questions. I can be reached at (509) 725-7041.

Sincerely,

Rick Becker
Public Works Director

QUADCO REGIONAL TRANSPORTATION PLANNING ORGANIZATION

Application for SFY12/13 UPWP Transportation Planning Project Funding

Due: 3:00 p.m. March 18, 2011 - To Be AT LEAD AGENCY (not postmarked)

Applications can be submitted by single signed hard copy by mail, OR signed copy (signature in colored ink) scanned in PDF format and submitted by email to: dpohle@co.grant.wa.us

Applications must be Signed by Appropriate Agency Representatives
(NO Faxed Copies shall be accepted)

Agency Name: Lincoln County Department of Public Works

Project Name: Traffic Sign Retroreflector Purchase

Road/Street Name: ALL Lincoln County Roads & Multi-Lincoln County Agency Roads

Location Map Included

Yes

No

PROJECT DESCRIPTION

PROVIDE A BRIEF DESCRIPTION OF YOUR PROJECT INCLUDING WORK ITEMS ANTICIPATED AND TIMELINES FOR COMPLETION.

Lincoln County would like to purchase a handheld Retroreflector.

New Federal traffic sign standards now requires agencies to implement a traffic maintenance program and to begin meeting new minimum sign reflectivity requirements for all traffic signs. The FHWA standard, which is contained in the *Manual on Uniform Traffic Control Devices* (MUTCD), establishes minimum levels of sign retroreflectivity. Agencies have until January 2012 to implement a method for maintaining traffic sign retroreflectivity at or above the minimum levels.

Lincoln County wants to purchase a sign retroreflector in order to implement a sign assessment program and subsequent sign management plan in order to be in compliance with these new requirements.

Lincoln County has reviewed manufacturer information and specifications of several sign retroreflectometers currently marketed. Lincoln County is prepared to purchase the tool within two months of being awarded funding.

Total Project Cost: \$ \$12,800

BENEFITS TO REGIONAL SYSTEM

Transportation System Operation and Safety

1. HOW DOES THE PROPOSED STUDY PROVE TO BENEFIT IN THE SOUND, EFFECTIVE, AND SAFE OPERATION OF THE TRANSPORTATION SYSTEM?

According to the National Safety Council, about half of traffic fatalities occur at night, yet only about one-quarter of travel takes place after dark. As the U.S. population ages, nighttime visibility is becoming even more of a safety concern. According to U.S. Census Bureau information, by the year 2030, about 19 percent of the U.S. population will be 65 or older, compared to 13 percent in 2010. In general, vision and reaction times decrease with age. To enhance the safety of nighttime driving, the FHWA has set Federal standards to improve the nighttime visibility of the signs on all public streets and highways.

The FHWA standard, which is contained in the *Manual on Uniform Traffic Control Devices* (MUTCD), establishes minimum levels of sign retroreflectivity.

Purchase of a sign retroreflectometer provides Lincoln County with the resource needed to implement an effective sign reflectivity assessment program. Once in place, the program will assist us to know when signs should be replaced and help reduce the potential for traffic accidents.

Supporting Livable Communities

2. HOW DOES THE PROPOSED STUDY PROVE TO BENEFIT THE TRANSPORTATION INFRASTRUCTURE NEEDS OF THE REGION'S MAJOR SOURCES OF ECONOMIC DEVELOPMENT?

Lincoln County's source of economic development includes not only business but also recreation. Safe, effective, and efficient roadway signage is essential to provide direction to destinations and business within Lincoln County that impact the local and regional economy. Providing safe and effective signage assists motorists as they travel here to support local business. This is key to the health and viability of both the local and regional communities and economies.

Enhanced Mobility

3. HOW DOES THE PROPOSED STUDY PROVE TO BENEFIT INCREASED TRAVEL OPTIONS, EASY CONNECTIONS, AND/OR REDUCE DELAYS FOR PEOPLE AND GOODS?

Highly visible and delineated highway signage provides for the safe and efficient movement of people, goods and services. Enhancing the visibility of our roadway signs will help reduce motorist confusion and improve guidance as motorists travel our roads. Motorists will be able to reach their destination safely and efficiently. Good and services will be transported within and through the area in a timely and efficient manner.

Investment Value, Local Support, Multi-jurisdictional Coordination, & Partnerships

4. HOW DOES THE PROPOSED STUDY DEMONSTRATE A COST-EFFECTIVE MANNER TO ACHIEVE A VIABLE SOLUTION TO A POTENTIAL OR RECOGNIZED PROBLEM? (ATTACH LETTERS OF LOCAL SUPPORT, COLLABORATIVE DECISION MAKING BETWEEN JURISDICTIONS AND PARTNERS, AND HOW THE STUDY COSTS WILL BE USED TOWARDS THE REGIONAL TRANSPORTATION PLAN. LIST SOURCES OF ALL FUNDS THAT WILL BE USED, INCLUDING THOSE FROM PARTNERSHIPS).

Lincoln County will make the retroreflectometer available to local agencies through Interlocal Agreements. Making the equipment available to our local agencies is a cost-effective way to provide all of Lincoln County with the means to implement effective sign assessment programs. Development of effective sign assessments us know when signs need to be replaced, allowing for efficient and cost effective sign management planning for Lincoln County, as well as those cities and towns requesting use through interlocal agreements.

CERTIFICATION IS HEREBY GIVEN THAT THE INFORMATION PROVIDED IS ACCURATE AND ALL INFORMATION IS COMPLETE AND INCLUDED AS PART OF THE APPLICATION

Date: 3/2/2011

Richard T. Becker

SIGNATURE OF AUTHORIZED MEMBER AGENCY REPRESENTATIVE

PUBLIC WORKS DIRECTOR

TITLE

SAME

SIGNATURE OF MEMBER AGENCY OFFICIAL RESPONSIBLE FOR ADMINISTRATION

TITLE

Lincoln County Department of Public Works

MEMBER AGENCY

27234 SR 25 N

ADDRESS

Davenport

WA

99122

CITY

STATE

ZIP

(509) 725-7041

(509) 725-4467

TELEPHONE

FAX

EMAIL: rtbecker@co.lincoln.wa.us

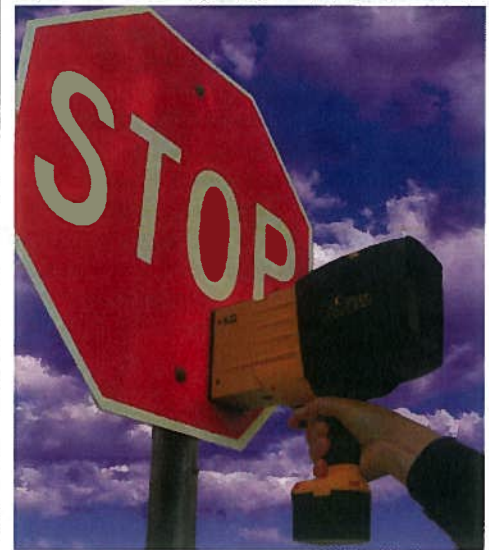
Model 922 Handheld Sign Retroreflectometer

SPECIFICATIONS

| Geometry | | | | | |
|-------------------------------------|------------------------------|--|------------------------------|-------------------------------------|------------------------------|
| Model 922 (ASTM E1709) | Model 922D (DIN 67520) | Model 922E (EN471 for safety clothing) | | | |
| Entrance Angle: | -4° | Entrance Angle: | +5° | Entrance Angle: | +5° |
| Observation Angle: | 0.2° and -0.5° | Observation Angle: | 0.33° | Observation Angle: | 0.2° and -0.5° |
| Light Source angular aperture | 0.1° | Light Source angular aperture | 0.1° | Light Source angular aperture | 0.1° |
| Receiver angular aperture (annular) | 0.1° | Receiver angular aperture (annular) | 0.1° | Receiver angular aperture (annular) | 0.1° |
| Field of Measurement | 1 inch (25 mm) diameter spot | Field of Measurement | 1 inch (25 mm) diameter spot | Field of Measurement | 1 inch (25 mm) diameter spot |

Specifications (apply to all models)

| | |
|-------------------------------|--|
| Detector Responsivity | Photopic response in accordance with ASTM E1709 paragraph 6.4.2 |
| Range (cd/lx/m ²) | 0-2000 |
| Data Memory | > 4500 measurements |
| Computer Interface | USB |
| GPS | 12-Channel WAAS Enabled for <3 meter position fix uncertainty |
| Barcode Reader | Programmable Symbologies Laser Scanner |
| Power Supply | removeable 12 VDC, 2.4 Ah battery (DeWalt P/N DC9071) |
| Charger | 110 VAC, 60 Hz (add -1 after model number) 12 VDC cigarette lighter (add -2 after model number) 220 VAC, 50 Hz (add -3 after model number) |
| Operating Temperature | 0°C to 50°C (32°F to 122°F) |
| Operating Humidity | 0 to 95% non-condensing |
| Length | Approx. 11.5 inches (290 mm) |
| Width | Approx 4.5 inches (115 mm) |
| Height | Approx 12.75 inches (325 mm) with battery |
| Weight | Approx 5.9 lbs (2.7 kg) with battery |



Accessories

Standard Accessories

- Foam-lined Carrying Case
- Measurement Area Reducers
- Battery Charger
- Two (2) Batteries
- Calibration Standard
- Calibration Certificate
- Windows Software with Mapping



Optional Accessories

- Annual Calibration Service
- 922-EAA Adjustable Entrance Angle Attachment (allows the entrance angle to be adjusted from -40 to +40 degrees continuously)
- 922-EPK Extension Pole Kit with remote IrDA trigger



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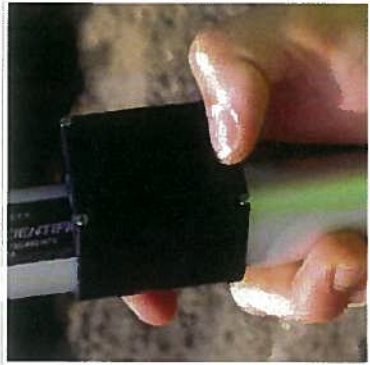
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922 EXTENSION POLE



Many traffic signs are mounted at heights out of reach of workers on the ground. The 922 extension pole makes it quick and easy to take overhead measurements without requiring transportation of heavy or bulky equipment. With the majority of traffic signs in high volume areas at heights over seven feet, the extension pole is a crucial addition to your retroreflectivity measurement system.

The 922 extension pole can be extended up to fifteen feet using a simple twist-and-lock mechanism and uses a IrDA remote to activate the readings. Its unique rocking cradle mount holds the 922 steady while allowing it to easily fall into the position that will cause the plunger on the front of the device to be fully depressed. And readings taken using the extension pole will continue to store and average the same as readings taken by pulling the trigger.

FEATURES:

- IrDA remote
- Single button measurements
- Sturdy thumbscrew attachment
- Twist-and-lock extension
- Balanced, lightweight design
- Adaptable cradle mount

SPECS:

- WEIGHT: 5 lbs.
- MIN. HEIGHT (Collapsed): 5 ft.
- MAX. HEIGHT (Extended): 12 ft.
- WIDTH: 5.5 in. (cradle)
- MATERIAL: Aluminum
- POWER: Internal Battery



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