

**VILLAGE OF DOWNERS GROVE**  
**REPORT FOR THE VILLAGE COUNCIL WORKSHOP**  
**APRIL 5, 2011 AGENDA**

SUBJECT:	TYPE:	SUBMITTED BY:
Purchase of Traffic Detection Camera Replacement	Resolution Ordinance ✓ Motion Discussion Only	Nan Newlon, Director of Public Works

**SYNOPSIS**

A motion is requested to award a contract for the purchase of four (4) Econolite AutoScope Solo Terra traffic detection video cameras to Traffic Control Corporation, of Woodridge, Illinois in the amount of \$24,695.00.

**STRATEGIC PLAN ALIGNMENT**

The goals for 2011-2018 identified *Top Quality Infrastructure*.

**FISCAL IMPACT**

The FY 2011 Capital fund budget includes \$25,000 for this contract.

**RECOMMENDATION**

Approval on the April 5, 2011 consent agenda.

**BACKGROUND**

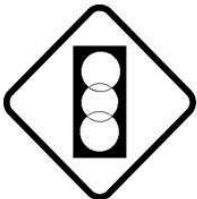
The Village is proposing to purchase four traffic detection video cameras to replace the existing cameras at the intersection of Main Street and Maple Avenue. Two of the four existing cameras at this location are not operable, and due to their age cannot be repaired. The two existing, operable cameras are not compatible with the new cameras, but will be moved to other locations around the Village, replacing other cameras that are not working. As inoperable cameras are decommissioned they will be saved for spare parts for the remaining cameras in Village's system.

Traffic detection video cameras are used to detect traffic waiting for a green signal, and adjust the signal timing accordingly. Replacement of the inoperable equipment will improve the efficiency of this intersection by reducing motorists' delay. The Main Street and Maple Avenue intersection is the first in a series of intersections along Main Street staff is proposing to upgrade over time with more modern and efficient traffic control equipment.

The Econolite AutoScope traffic detection video cameras are sold exclusively by Traffic Control Corporation who has been the Village's sole source vendor for traffic signal equipment for many years.

**ATTACHMENTS**

Price Quote  
 CIP Sheet – TR-021 project  
 Sole Source Authorization



**TRAFFIC CONTROL CORPORATION**

10435 Argonne Woods Drive  
Woodridge, IL 60517  
(630) 543.1300 • Fax (630) 543.5050  
www.trafficcontrolcorp.com

# Quotation

Quotation # E03469-00  
Quotation Date: 12/19/2010  
Customer Number: 013050  
Salesperson: MB

**DOWNERS GROVE, VILLAGE OF  
PUBLIC WORKS DEPARTMENT  
5101 WALNUT AVENUE  
DOWNERS GROVE IL 60515  
PHONE: (630)434-5460 FAX: (630)434-5494  
Attention : DORIN FERA**

*Book/*  
*Contract: AUTOSCOPE TERRA*

Item	Part No. /Description	Quantity	Unit Price	Extended Price
001	TCC-11902 VIDEO VEH DET SYS - TERRA (4 DIRECTION) INCLUDES 4 - AUTOSCOPE SOLO TERRA 4 - MOUNTING BRACKETS 4 - SOLO TERRA CABLES 100' 1 - TERRA ACCESS POINT (TAP) 1 - TERRA INTERFACE PANEL 1 - COLOR MONITOR 1 - SET CABLES FOR TAP	1.00 EA	24,695.00	\$ 24,695.00
			<b>Total Items Price</b>	<b>\$ 24,695.00</b>

**TERMS: BASED ON CREDIT APPROVAL AT TIME OF ORDER  
PRICES FIRM FOR 30 DAYS  
PRICES BASED ON PURCHASING ALL ITEMS IN QUANTITIES LISTED**

# 2011-2015 Capital Project Sheet

Project # **TR-021**

**Project Description**      **Traffic Detection Camera Replacement**

**Project summary, justification and alignment to Strategic Plan**

This project includes the replacement of traffic detection cameras throughout the Village. The existing cameras are aging, and as the technology becomes obsolete it is more difficult to find parts. As cameras are decommissioned, they would be saved for spare parts for the remaining cameras until all have been replaced.

Cost Summary	New	Maintenance	Replacement	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	Future Years	TOTAL
Professional Services										-
Land Acquisition										-
Infrastructure										-
Building										-
Machinery/Equipment		X		25,000	25,000	25,000	25,000	25,000	250,000	375,000
Other/Miscellaneous										-
<b>TOTAL COST</b>				25,000	25,000	25,000	25,000	25,000	250,000	375,000
<b>Funding Source(s)</b>										
220-Capital Improvements Fund	▼			25,000	25,000	25,000	25,000	25,000	250,000	375,000
	▼									-
	▼									-
	▼									-
<b>TOTAL FUNDING SOURCES</b>				25,000	25,000	25,000	25,000	25,000	250,000	375,000

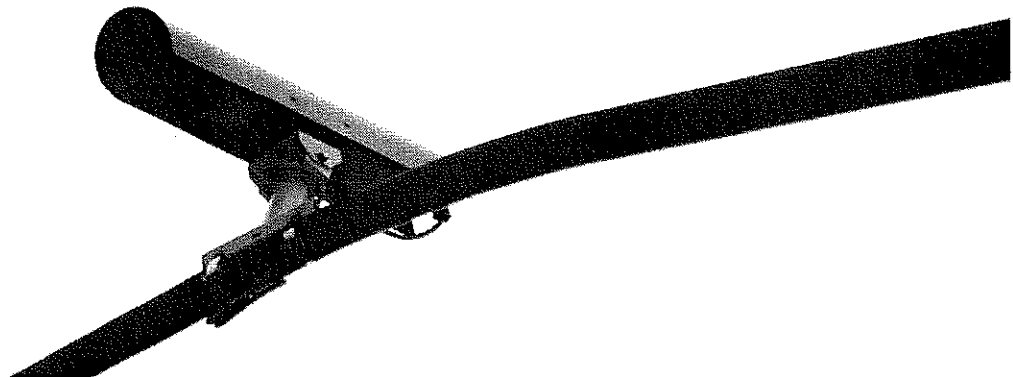
**Project status and completed work**

It is anticipated that the cameras would be replaced over a ten year period, starting in 2011 with the intersection of Main and Maple.

**Grants (funded or applied for) related to the project.**

Impact-annual operating expenses	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	Future Yrs	TOTAL
Projected Operating Expense Impact:							-

**Map/Pictures of Project**



Internal staff information:  
Priority Score    Medium

Project Manager:  
Program: 344    Department:

Dorin Fera  
Public Works

Village of Downers Grove  
Public Works  
Authorization to Bid

**To:** Terri Tarka

**CC:** Nan Newlon

**Date:** February 3, 2011

**Subject:** **Project (CIP) No: TR-021**  
**Project Name: Video Detection Cameras – Main St at Maple Ave**

<b>Bid Type:</b>	Materials Bid
<b>Project Type:</b>	OTHER: _Video detection Cameras_____
<b>Description/ Scope of Work:</b>	Purchase four (4) Econolite AutoScope Solo Terra Video Detection Cameras
<b>Pre-Bid Conference:</b>	NONE
<b>Document Cost?</b>	NO
<b>Bid Bond Required?</b>	NO
<b>Advertisement Date</b>	NONE
<b>Bid Due Date</b>	NONE
<b>Bids Due To (Location):</b>	5101 Walnut Avenue Downers Grove, IL 60515
<b>Project Manager:</b>	Dorin Fera
<b>ONVIA/Demandstar Commodity Codes</b>	<i>See Attached Checklist</i>

**FUNDING DETAIL:**

FUND	PROGRAM	ACCOUNT	SUBCODE	AMT. BUDGETED
220	30	344	5770	\$25,000

Prepared By: _____ <div style="text-align: right;">Date: <u>2-03-11</u></div>
Printed Name and Title: Dorin Fera, Traffic Engineering Manager
Authorized By: _____ <div style="text-align: right;">Date: _____</div>
Printed Name and Title: Nan Newlon, Director of Public Works

**Project (CIP) No: n/a**

**Project Name: Multi Space Parking Pay Units**

**SUGGESTED ONVIA/DEMANDSTAR COMMODITY CODES**

(check all that apply)

<input type="checkbox"/>	Architectural Consulting (SRV-918-15)
<input type="checkbox"/>	Construction Consulting (SRV-918-31)
<input type="checkbox"/>	Engineering Consulting (SRV-918-42)
<input type="checkbox"/>	Environmental Consulting (SRV-918-43)
<input type="checkbox"/>	Lakes, Rivers, and Other Waterway Management Consulting Services (SRV-918-72)
<input type="checkbox"/>	Traffic Consulting (SRV-918-94)
<input type="checkbox"/>	Transportation Consulting (SRV-918-96)
<input type="checkbox"/>	Architect Services, Professional (ARC-906-07)
<input type="checkbox"/>	Design Build Services (ARC-906-25)
<input type="checkbox"/>	General Consulting/A&E (ARC-906.35)
<input type="checkbox"/>	Surveying Services (ARC-906-83)
<input type="checkbox"/>	Construction, Highway and Road (ARC-913-27)
<input type="checkbox"/>	Construction, Sewer and Storm Drain (ARC-913-45)
<input type="checkbox"/>	Construction, Sidewalk and Driveway (Incl. Pedestrian and Handicap ramps) (ARC-913-47)
<input type="checkbox"/>	Construction, Street (Major and Residential – Includes Reconstruction) (ARC-913-50)
<input type="checkbox"/>	Construction, Water System, Main and Service Line (ARC-913-60)
<input type="checkbox"/>	Maintenance and Repair, Highway and Road (ARC-913-71)
<input type="checkbox"/>	Maintenance and Repair, Sewer and Storm Drain (including removal) (ARC-913-81)
<input type="checkbox"/>	Maintenance and Repair, Sidewalk and Driveway (including removal) (ARC-913-82)
<input type="checkbox"/>	Maintenance and Repair, Street (Major and Residential) (ARC-913-84)
<input type="checkbox"/>	Maintenance and Repair, Water System, Main and Service Line (ARC-913-92)
<input type="checkbox"/>	Paving/Resurfacing, Highway and Road (ARC-913-95)
<input type="checkbox"/>	Paving/Resurfacing, Street (Major and Residential) (ARC-913-96)
<input type="checkbox"/>	Boring, Drilling, Testing, and Soundings (ARC-912-16)
<input type="checkbox"/>	Construction, Street Lighting (ARC-912-32)
<input type="checkbox"/>	Demolition Services (ARC-912-40)
<input type="checkbox"/>	Civil Engineering (SRV-925-17)
<input type="checkbox"/>	Electrical Engineering (incl. Cogeneration Design Services) (SRV-925-31)
<input type="checkbox"/>	Engineer Services, Professional (SRV-925-33)
<input type="checkbox"/>	Environmental Engineering (SRV-925-35)
<input type="checkbox"/>	Highways; Streets; Airport Pay-Parking Lots – Engineering (SRV-925-49)
<input type="checkbox"/>	Inspecting, General/Engineering (SRV-925-55)
<input type="checkbox"/>	Municipal Engineering (SRV-925-70)
<input type="checkbox"/>	Surveyor Services, Land (SRV-925-86)
<input type="checkbox"/>	Structural Engineering (SRV-925-88)
<input type="checkbox"/>	Traffic and Transportation Engineering (SRV-925-93)
<input type="checkbox"/>	Water Supply, Treatment, and Distribution/Engineering (SRV-925-97)
<input type="checkbox"/>	Parking Structures (BLD-155-53)
<input type="checkbox"/>	Parking Meters and Area Control Equipment (BLD-550-38)
<input type="checkbox"/>	Parking Spaces in a Parking Lot or Garage, Rental or Lease (RNT-971-55)
<input type="checkbox"/>	Parking Equipment Maintenance and Repair (SRV-936-53)
<input type="checkbox"/>	

<input type="checkbox"/>	Parking Management Services (Incl. Operations, Admissions, and Supervision) (SRV-958-72)
<input type="checkbox"/>	Parking Meter Services (Incl. Collection, Installation, and Removal) (SRV-968-60)
<input type="checkbox"/>	Parking and Water Meters (SRV-998-77)
<input type="checkbox"/>	Beads, Glass, Sign and Stripe (BLD-550-04)
<input type="checkbox"/>	Cement and Adhesives for Traffic Control Markers (BLD-550-10)
<input type="checkbox"/>	Markers, Traffic, Fiberglass (BLD-550-33)
<input type="checkbox"/>	Posts, Flexible (For Delineator Markers) (BLD-550-41)
<input type="checkbox"/>	Sheeting, Reflectorized (General) (BLD-550-45)
<input type="checkbox"/>	Traffic Cones, Lane Markers, and Barricades (Portable) (BLD-550-78)
X	Traffic Control and Equipment, Electric Parts (BLD-550-81)
<input type="checkbox"/>	Traffic Counters, Monitors, and Accessories (BLD-550-82)
X	Traffic Signals and Equipment, Electric Parts (BLD-550-89)
<input type="checkbox"/>	Warning Lights, Flashers, and Flashing Arrow Boards



**Village of Downers Grove  
Public Works  
Memo**

**To:** Judy Buttny, Director of Finance  
Nan Newlon, Director of Public Works  
Mike Millette, Assistant Director of Public Works – Trans. & Engineering

**From:** Dorin Fera, Transportation Division Manager

**Date:** August 12, 2004; July 25, 2005 UPDATED  
July 12, 2006 UPDATED; July, 2007 UPDATED; January, 2009 UPDATED

**Subject:** Sole Source Suppliers

**Page 1**

**Purpose:**

In order to comply with the Village Purchasing Procedures, dated November 6, 2001, and specifically to Section VI. Sole Source Contracts, and in accordance with Section IV. E-Approval Process and F-Approval Limits, the Transportation Division has compiled the following list and is requesting your approval and designation of the following Vendors/Companies as Sole Source Suppliers to the Village:

**1.) *Duncan Industries, Inc.***

- Parking meters and supplies
- Electronic Meter Data Terminals
- Meter maintenance Software
- Cash-keys for meters

The Village has purchased Duncan meters for over 25 years, and is the only meter system in town. There is no other vendor that can substitute any of these hardware, nuts and bolts, software or hardware components.

**2.) *Access Parking Systems, LLC***

- Electronic Parking Revenue units for the Parking Deck
- Associated software, hardware, Card Reader, Card Dispenser Units

The Village has purchased parking revenue control units from this Vendor for the Parking Deck. This Vendor's design is exclusively unique and all the components to operate, maintain, and otherwise use the product for the Parking Deck cannot be duplicated or substituted by another Vendor.

**3.) *TAPCO, Inc.***

- Brite Side Panels
- Ornamental DB traffic sign posts
- Mid-Block Ped Crossing signs

The Village has purchased these products exclusively from this Vendor for 10+ years. These products maintain consistency and uniformity in our downtown street signing program. The panels are used for installations on our STOP, Yield, and all School Warning signs; the posts are used for ground-mounted STOP-signs and parking signs. These products are not reproducible by any other Vendor.

**4.) John Thomas, Inc.**

- Nu Metrics - Portable Volume Traffic Counter/analyzer
- Nu Metrics - Highway Data Management software

This Vendor is the only authorized distributor in the Midwest by the Manufacturer. This Vendor's traffic analyzer hardware and software is exclusively unique, and all the components to operate, maintain, and otherwise use the product for Village's traffic counting program cannot be duplicated or substituted by another Vendor. This product is being used by DuPage DOT, Illinois DOT, and other agencies for their traffic data collection programs.

**5.) TraffTech, Inc.**

- Computerized Traffic CADD software
- Traffic CADD hardware

This Vendor is the authorized creator and distributor of this unique CADD software for the Traffic Division's sign fabrication program. This Vendor provides the complete hardware and software service, including Summa Graphics cutter, hardware replacement and in-house training. This Vendor's components to maintain and use of this product for Village's traffic sign fabrication program cannot be duplicated or substituted by another Vendor.

**6.) Jamar Technologies**

- Traffic - Manual Portable traffic counting equipment
- Traffic Counting Software

This Vendor has been the only supplier of electronic traffic counting boards, tubes, and software to summarize the collected data for manual traffic counting operations. In conjunction with John Thomas, Inc, this vendor provides the other half of data collection that the Village uses in all our pedestrian and vehicular studies.

**7.) Traffic Control Corporation (TCC)**

- Econolite traffic signals, Ped signals, Controllers
- Aries Traffic Signal Monitoring Software
- LED street signs

The Village's Econolite products have been in place for over 20 years. As such, all of the Village's traffic signals, ped signals, related components, signal monitoring software have been provided by this Vendor. They manufacture and assemble all their products in DuPage County, and are the only makers of the Econolite products system. Area signal maintenance companies (Lyons, Meade, Tri-Tech, etc.) purchase their materials from TCC then install in town, because of their quality and price savings.

**8.) Barco Products**

- Traffic System Barriers

Barco Products has been our Village vendor for supplying these types of barriers for many years. We now stock approximately forty-five (45) units for local street traffic control. These units are specifically made for low-level traffic control, such as municipal and local applications. No other known vendor makes these type of units which the Village can use.



**9.) Traffic Control & Protection (TCP) Company**

- Tri-Fold STOP signs
- LED-mountable flashing traffic-sign lights

The Village has purchased these Stop signs from this Vendor for many years. They are narrow and locked in place at all of our signalized intersections. This Vendor is the only maker of this type of product. The panels cannot be reproduced or substituted by any other Vendor.

**10.) 3M Company**

- Roadway pavement marking tape
- Roadway pavement marking symbols


All of the Village's permanent traffic marking tape for lines and symbols have been provided by this Vendor for 20+ years. The intent of using this Vendor is to supplement and enhance the Village's pavement marking program, when materials are needed for special projects or events throughout the year. The 3M products are superior to other providers and cannot be reproduced or substituted by any other Vendor.

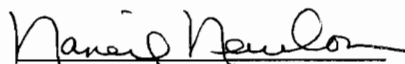
**11.) Traffic Logix Company**

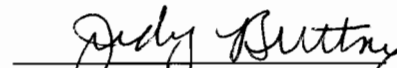
- Traffic Calming –Speed Humps

The Village's traffic control speed humps have been purchased from this Vendor. We now stock approximately forty (40) speed hump modules (6' x 7' size) for use throughout the Village. Through research and a competitive bidding process, these speed humps have proven to be very successful, and are not available from any other Vendor.

I concur with these vendors as Sole Source providers for the specific materials/products as listed:

  
Mike Millette, P.E.  
Asst. Dir. Public Works

  
Nan Newlon, P.E.  
Director of Public Works

  
Judy Buttny  
Director of Finance