



**Town of Sudbury
Capital Improvement Budget Request
FY2018 Form A**

Department/Committee: Engineering
Item/Project Name: GPS Surveying Equipment

Initial Year of Request: FY18	Estimated Total Project Cost: \$37,032.35	Estimated Future Savings: ¹ TBD
Estimated Incremental Costs: ² None	Staffing Changes: ³	
Justification Code:	R or NR: NR	Priority: 1
Project Description: Purchase of GPS based surveying equipment		
Justification and Need: Current equipment requires two employees to function. New equipment allows one employee to still perform duties although slower.		
Benefit: Allows surveying crew to proceed with one employee. Superior record keeping/tracking. With updated GPS equipment, the Town of Sudbury can take advantage of the State of Massachusetts Continuously Operated Reference Station Network (MaCORS) network, a system of continuously operated Global Navigation Satellite System (GNSS) designed to assist surveyors and engineers with accurate global positioning. The previously purchased equipment was done in approximately 2008 and the technology is not supported or compatible with the MaCORS network. Benefits of this equipment would be seen in multiple departments, from the Planning Department with the GPS mapping of the towns infrastructure needed for the 2016 Massachusetts MS4 General Permit to updated data and information on the Towns GIS map. This will allow our department to quickly and accurately map the information needed. Other projects, such as the water elevation monitoring program established in the 1970s, the perambulation of the towns bounds, and general construction and field lay, would benefit and be updated by the use of this equipment. Additional benefits of this equipment would allow our staff to break into two work groups, allowing one member to work with another department while the field mapping is still being worked on.		
Last time this was replaced (i.e., year roof was previously replaced or year vehicle): New Initiative	Typical Replacement Cycle: 5 years	

Alternatives Considered/Reasons for Rejecting Alternatives:
Consequences of Not Implementing/Delaying Implementation:
Other Pertinent Background Information (e.g., Quotes, Brochures, Pictures, etc.): Proposal # EST13187

- ¹ Quantify any future savings if project is implemented (e.g., personnel costs, maintenance, repairs, energy conservation, etc.)
- ² Quantify any incremental costs anticipated if project is implemented (e.g., future personnel costs, maintenance, repairs, etc.)
- ³ Quantify staffing changes (up or down) anticipated if project is implemented.



Topcon Solutions Store
 873 Great Road
 Stow, MA 01775

Previously dba Bunce Industries, LLC

Bill To:
 Sudbury, Town Of
 HIGHWAY DEPT.
 275 OLD LANCASTER ROAD
 Sudbury MA 01776-
 Contact: Phil Salamon
 SalamonP@sudbury.ma.us

Date: 8/9/2016

Proposal #: EST13187

Exp. Date: 9/8/2016

PO#:

Ship To:
 Sudbury, Town Of
 HIGHWAY DEPT.
 275 OLD LANCASTER ROAD
 Sudbury MA 01776-
 (978) 443-2209

Proposal

Sales Rep	Proposal Expiration Date	Payment Terms	Shipping Method
Cameron S Balls	9/8/2016	Net 30	
Item	Quantity	Description	
80661R-21	1	KIT, GR-5 BASE/ROVER DIG UHF	
7070-0405	1	OAF BUNDLE, DUAL GR-5 GGD 10HZ	
8636-04	1	KIT, CONFIG DUAL GR-5 440-470	
1010086-01	1	FC-5000 ATOM GEO CELL N. AMERICA	
1013399-01	1	CRADLE,FC-5000/SHC-5000 W/ POLE CLAMP	
1002835-01	1	KIT, MAGNET FIELD ROBOTIC-GPS-HYBRID	
01-WDF20-B	1	TRIPOD, WOOD/FIBERGLASS 5/8X11	
TR-GPS 1 DAY SITE	1	TRAINING GPS FULL DAY SITE	
307796008	1	TR-8P - Tribrach with Optical Plummert	
05-2521	1	ADAPTER, ROT. TRIBRACH SITEPRO	
		SPECIAL PRICING PURCHASE A HIPER V BASE/ROVER RECIEVER A FREE UPGRADE TO GR5 BASE/ROVER SAVINGS OF \$10,00.00	
Notes		Total Discount	
		Total	\$37,032.35