



CONTRACT RENEWAL LETTER

Date: April 05, 2022
Contract #: UCPJMU5507
Service: Vehicle Count Systems
Renewal Period: 5/8/2022 to 5/7/2023
Renewal #: 3 of 4 One-Year
Issued By: James Madison University
Michael Morrison, Buyer Senior
Ph: 540-568-6181
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Contractor: TCS International, Inc.
55 Union Ave
Sudbury, MA 01776
Contract Administrator: Bill Yates, Parking

Description of Renewal Notice:

In accordance with the renewal provision of the original contract all terms, conditions, and specifications of the original contract remain the same during the contract renewal period, along with any modifications that have been incorporated up until this point. The previous contract pricing schedule is hereby replaced with the pricing schedule attached to this renewal.

All invoices shall be submitted within sixty days of contract renewal term expiration as well as for each subsequent contract renewal period. Any invoices submitted after the sixty day period will not be processed for payment.

Return one executed renewal notice to my attention within ten days.

TCS International, Inc.

By: 

Dave Radford

Name (print)

President

Title

APR 11/22

Date Signed

James Madison University

By: 

Michael Morrison, MS, VCCO, CUPO

Name (print)

Buyer Senior

Title

4/5/2022

Date Signed



Contract #: UCPJMU5507

Renewal #3

Contractor: TCS International, Inc.

Renewal Period: 05/08/2022 - 05/07/2023

Commodity: Vehicle Count Systems

Pricing Schedule	Discount/Rate
All Zones	See Attached Rate Sheet for products to be offered to the University
Charge Card Processing Fees: 0%	
No travel-related costs or travel time shall be charged.	

TCS INTERNATIONAL PRESENTS

VEHICLE COUNT SYSTEM PRICE LIST REV4

JAMES MADISON UNIVERISTY

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1.0 System Hardware Breakdown

The proposal is the recommended system design based on a typical garage as currently installed at James Madison University:

1.1 Vehicle Count System Hardware:

1.1.1 Single Space Sensor System:

QTY	PART#	DESCRIPTION	UNIT COST
1	TUS-300	RGB Single Space Sensors: <ul style="list-style-type: none"> Smart design located at the end of each covered parking space for higher visibility; Measuring vehicle occupancy through ultrasonic distance measurement; Occupancy status indicating LEDs: <ul style="list-style-type: none"> RGB color standard space units with i.e. green status for available space, red status for occupied space, and amber status for reserved or EV space and blue status for handicapped space, etc. provided Freely programmable RGB colors to fit customer requirements IP 65 rating; RS-485 multi-drop communications to area controller; and Max. mounting height 3 m. 	\$75.00
1	SS-CP	Communication Enclosures: All components for local network wireless clusters connected to communication points (CP): <ul style="list-style-type: none"> Single space communication point enclosure provided including: <ul style="list-style-type: none"> Single space zone controllers: Configured to manage inputs from all facility single space sensors; Monitors single space sensors, maximum 96 single space sensors per area controller (3 bus lines); Bus line maximum cable length 100 meters; Total quantity depending on floor plan layouts; Offline operation if communication to server fails; Wireless communication chip & antenna; <ul style="list-style-type: none"> Peripheral equipment (i.e. power supplies, etc.). Equipment pre-configured in 18" x 16" x 8" NEMA 4 PVC indoor enclosure. 	\$1,287.00

1.1.2 Ultrasonic Directional Sensors for Level/Zone Counting:


QTY	PART#	DESCRIPTION	UNIT COST
1	USDS	Ultrasonic Directional Sensors: <ul style="list-style-type: none"> • Three (3) unit cluster configuration at wide garage/level entrances/exits and single unit standard configuration at standard width garage/level entrances/exits provided; • Built in central processing unit to control sensor logic; • Built in self-test diagnostics; • Maximum mounting height 8 ft; • Directional counting of vehicles; • Maximum effective speed 12 mph; • 24 VDC low voltage; • Output: plus-minus pulses and/or serial interface via RS-485; • Max. 24'/Delineation required for optimal cluster counting accuracy; • Max. 12'/Delineation required for optimal standard counting accuracy; • Dimensions: 74" L x 2.75" H x 2.5" W; and • Weight: 15.5 lbs. NOTE: <ul style="list-style-type: none"> • Patent pending; • Proximity of vehicles under sensor can skew accuracy; • Spacing of sensors depends on garage floor layout and is customized per installation; and • TCS is not responsible for accurate system counts if proper lane delineation, if required, is not implemented, and maintained by others. 	\$922.00
1	USDS-CP	Communication Point Enclosures: All components for local network wireless clusters connected to USDS communication points (CP). <ul style="list-style-type: none"> • Ultrasonic directional sensor communication point enclosures provided including: <ul style="list-style-type: none"> ○ Wireless communication equipment (i.e. modems, power supplies, etc.); ○ Power supplies for USDS and/or signs; and ○ Peripherals, etc. • Equipment pre-configured in 14" x 12" x 6" NEMA 4 PVC indoor enclosures. 	\$910.00
1	RP	Repeater Communication Point Enclosure: All components for local network wireless clusters connected to repeater communication points (RP) to ensure proper wireless communication. <ul style="list-style-type: none"> • Repeater point enclosure provided including: <ul style="list-style-type: none"> ○ Wireless communication equipment (i.e. modems, power supplies, etc.) ○ Equipment pre-configured in 14" x 12" x 6" NEMA 4 PVC indoor enclosures 	\$828.00

QTY	PART#	DESCRIPTION	UNIT COST
1	DP	Directional Delineation Posts: <ul style="list-style-type: none"> • Lane delineation equipment used to ensure proper vehicle counts; • Min. box of (25) units • Used to properly channel traffic under count sensor; • 36" standard post; • Includes two (2) reflector stripes; • Adhesive pads provided; • Installation by others; • Max. 24'/Delineation required for optimal cluster counting accuracy; and • Max. 12'/Delineation required for optimal standard counting accuracy. <p>NOTE:</p> <ul style="list-style-type: none"> • <i>Final quantity of required units is subject to site evaluation due to traffic flow concerns</i> • <i>TCS does not accept any responsibility for replacement of delineators if damaged or destroyed due to traffic flow. The delineators are placed to ensure proper system performance and are not designed to sustain extensive abuse due to traffic flow or abuse.</i> 	\$52.00
1	GW	Gateway Enclosure: All components for local network wireless clusters connected to wireless gateway (GW). <ul style="list-style-type: none"> ○ Wireless gateway enclosure provided including: <ul style="list-style-type: none"> ▪ Wireless communication equipment (i.e. gateways, power supplies, etc.). ○ Equipment pre-configured in 14" x 12" x 6" NEMA 4 PVC indoor enclosure <p>NOTE: <i>Wireless gateway (GW) must be physically connected to the existing customer network or directly to the PGS server.</i></p>	\$1,294.00


1.1.3 Outdoor Lot Monitoring Equipment:

QTY	PART#	DESCRIPTION	UNIT COST
1	CAM2	Mistall Camera: <ul style="list-style-type: none"> Overview camera with wide-angle lens To be installed on existing/new poles <i>Note: The higher the mounting height the higher the counting accuracy.</i>	\$420.00
1	CBD3	Control Board: <ul style="list-style-type: none"> Control board ver3 for camera management 	\$295.00
1	SOLAR	Solar Power: <ul style="list-style-type: none"> Electrical box and mount for 30W solar panel 	\$622.00
1	SOLAR	Solar Power: <ul style="list-style-type: none"> Electrical box and mount for 20W solar panel 	\$566.00
1	MNTAC	AC Power:	\$167.00
1	WPETH	Access Point Ethernet:	\$283.00
1	MODEM	High Speed Cellular for Camera Locations: <ul style="list-style-type: none"> High speed cellular modem for backend communication 	\$329.00

1.2 Space Availability Signage:

QTY	PART#	DESCRIPTION	UNIT COST
1	WFS/ 3x7.5	Wayfinding Sign Type 1 (Sample Sign Design): <ul style="list-style-type: none"> New wayfinding sign indicating space availability for (2) parking garages per new Master Plan sign design To be installed on existing foundation/s using existing J-bolts or new foundations by others Total of (2) space availability displays per sign cabinet: <ul style="list-style-type: none"> Number of spaces and OPEN in double stroke green LEDs with 7.5" LED character height; and FULL in single stroke 6" LED character height. White reflective vinyl lettering; Includes single 8' clearance pole <p>NOTE:</p> <ul style="list-style-type: none"> Sign price only for quoted sign dimensions, design and mounting. Changes to sign design, dimensions, mounting etc. will require a new quote. Footers by others 	\$28,498.00
1	XBEE-SIGN	Wireless Communication Equipment for Wayfinding Sign 1 Location/s: <ul style="list-style-type: none"> Includes (2) 120 VAC wireless modems, antenna, peripherals, etc. for Wayfinding Sign 1 location/s 	\$734.00
1	WFS/ 3x7.5/INST	Delivery & Installation of Wayfinding Sign Type 1 <ul style="list-style-type: none"> Includes delivery and installation of Type 1 Wayfinding Sign on existing/provided by others footings 	\$3,385.00

QTY	PART#	DESCRIPTION	UNIT COST
1	ES-1/ 3x7.5/ 12x96 VMS	<p>Entry Sign Type 1 (Sample Sign Design):</p> <ul style="list-style-type: none"> • Entry Sign Type 1 indicating space availability for parking garage per new Master Plan sign design • To be installed on existing foundation/s using existing J-bolts • Total of (3) space availability displays per sign cabinet: <ul style="list-style-type: none"> ○ Number of spaces and OPEN in double stroke green LEDs with 7.5" LED character height; and ○ FULL in single stroke 6" LED character height. • Total of (1) 12x96 VMS displays per sign cabinet: <ul style="list-style-type: none"> ○ Full color RGB ○ Ability to display 1 row of 5" text with up to 12 characters per row ○ Scrolling capabilities ○ 11.55mm pixel pitch • White reflective vinyl lettering; • Includes double posts <p>NOTE:</p> <ul style="list-style-type: none"> • <i>Sign price only for quoted sign dimensions, design and mounting. Changes to sign design, dimensions, mounting etc. will require a new quote.</i> • <i>Footers by others</i> 	\$21,894.00
1	ES-1/ INST	<p>Delivery & Installation of Entry Sign Type 1</p> <ul style="list-style-type: none"> • Includes delivery and installation of Entry Sign Type 1 on existing/provided by others footings 	\$2,521.00

QTY	PART#	DESCRIPTION	UNIT COST
1	ES-2/ 1x7.5/ 1x12x96 VMS	Entry Sign Type 2 (Sample Sign Design): <ul style="list-style-type: none"> Entry Sign Type 2 indicating space availability for parking garage per new Master Plan sign design To be installed on existing foundation/s using existing J-bolts Total of (1) space availability display per sign cabinet: <ul style="list-style-type: none"> Number of spaces and OPEN in double stroke green LEDs with 7.5" LED character height; and FULL in single stroke 6" LED character height. Total of (1) 12x96 VMS displays per sign cabinet: <ul style="list-style-type: none"> Full color RGB Ability to display 1 row of 5" text with up to 12 characters per row Scrolling capabilities 11.55mm pixel pitch White reflective vinyl lettering; Includes double posts <p>NOTE:</p> <ul style="list-style-type: none"> Sign price only for quoted sign dimensions, design and mounting. Changes to sign design, dimensions, mounting etc. will require a new quote. Footers by others 	\$12,992.00
1	XBEE-SIGN/VMS	Wireless Communication Equipment for Entry Sign Locations: <ul style="list-style-type: none"> Includes (2) 120 VAC wireless modems, antenna, peripherals, etc. for Entry Sign 1/2 location/s 	\$734.00
1	ES-2/ INST	Delivery & Installation of Entry Sign Type 2 <ul style="list-style-type: none"> Includes delivery and installation of ES-2 entry sign 2 on existing/provided by others footings 	\$2,521.00

1.3 Software Related:

1.3.1 Software License per Additional Lot for Existing PGS Server:

QTY	PART#	DESCRIPTION	TOTAL COST
1	SL	Software License: <ul style="list-style-type: none"> Software license to integrate the new PGS equipment into existing PGS server. Per new garage/surface lot <p><i>Note: Customer is responsible for network connection between garages.</i></p>	\$2,999.00

1.3.2 Outdoor Lot Monitoring Recurring Costs (Annually):

QTY	PART#	DESCRIPTION	PER CAMERA COST	ANNUAL COST
1	SIMUS	SIM Card and Data Plan <ul style="list-style-type: none"> Based on number of cameras provided Includes project specific SIM card and data plan for cellular communication. <p><i>Note:</i></p> <ul style="list-style-type: none"> Invoiced annually at the beginning of each year. Price is for this particular project and is subject to change based on lot configuration. 	\$384.00	\$384.00
1	SWSTD	Software License <ul style="list-style-type: none"> Based on cameras provided Includes software license for Mistall Insight monitoring dashboard Hosted software solution for Mistall <p><i>Note:</i></p> <ul style="list-style-type: none"> Invoiced annually at the beginning of each year. Price is for this project and is subject to change based on lot configuration. 	\$640.00	\$640.00



1.4 Additional Provisions:

QTY	PART#	DESCRIPTION	UNIT COST
1	DES	System Design: <ul style="list-style-type: none"> Hourly rate for standard in-house system design for new projects; and Includes documentation, drawings, and all related design work. 	\$147.00
1	PM	Remote Project Management: <ul style="list-style-type: none"> Hourly rate to perform all off-site coordination and remote project management to supply the new PGS system expansion/s. 	\$157.00
1	RIS	Remote Support: <ul style="list-style-type: none"> Hourly rate to provide remote support NOTE: <ul style="list-style-type: none"> All additional services and supporting expenses will be billed per standard rates if delays are caused by customer or a third party; Remote installation support must be scheduled at least 1 week in advance; Remote installation support to be provided during regular business hours Mo-Fri 8 am to 4 pm EST. 	\$147.00
1	SITE-SUR	Site Survey <ul style="list-style-type: none"> Site survey to review all existing sign locations to determine which cabinets/locations can be refaced and which locations require new sign cabinets as quoted included. 	\$3,473.00
1	SH	Remote System Health Check: <ul style="list-style-type: none"> Inclusions: <ul style="list-style-type: none"> Weekly remote system health check for 6-months for system expansions to ensure proper system functionality <i>Note: Remote system access required.</i>	Incl.
1	FR	Standard Freight & Handling <ul style="list-style-type: none"> Invoiced when/as provided 	N/A
1	2YW	2-Year Warranty	Incl.

1.5 Exclusions:

DESCRIPTION
<p>Exclusions:</p> <p>The following is excluded in this proposal:</p> <ul style="list-style-type: none"> • Related civil work, including but not limited to: <ul style="list-style-type: none"> ○ Electrical work including conduit for communications & power, power wiring, and final electrical connections; ○ Required digging, trenching, coring, etc.; and ○ Concrete, asphalt, and protective bollards. • Any type of penetrating survey/initiatives to any structure required to install PGS equipment, signage, conduit, etc. • A/P connection/s to customer network; • Wireless interference; • Installation of the PGS components other than for availability signs as selected; • Bonds, insurance, permits, engineering drawings, certifications, foundation design, foundation, delineation, etc.; • Traffic control; and • Lost revenue. <p><i>NOTE: All additional services and supporting expenses will be billed per standard rates if delays are caused by customer or a third party.</i></p>