

**PIGGYBACK AGREEMENT  
PURSUANT TO NASSAU COUNTY PURCHASING POLICY, SECTION 4.3**

2012 DEC 31 AM 10:42

**Piggyback Contract Information**

Contract Name/Description: **Traffic Signal Controllers and Related Equipment**

Lead Contracting Agency: **State of Florida, Department of Transportation (DOT)**

Contract No.: **ITB-DOT-11/12-2036-DS**

Vendor/Awardee: **Naztec, Inc.**

Award/Contract Date: **October 10, 2011**

Term: **Twenty-four (24) month term contract effective 10/17/11; Renewal period not to exceed three (3) years or the term of the contract, whichever period is longer.**

THIS AGREEMENT, made and entered into by and between **NASSAU COUNTY BOARD OF COUNTY COMMISSIONERS**, hereinafter called the "County" and the Vendor, referenced above.

WHEREAS, upon completion of a formal competitive solicitation and selection process, the Lead Contracting Agency entered into an agreement, hereinafter referred to as "Piggyback Agreement", with Vendor to provide goods and services; and

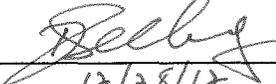
WHEREAS, the Nassau County Purchasing Policy, Ordinance 2009-09, allows piggybacking for the same commodity or service; and

WHEREAS, the parties desire to contract with Vendor under the terms of the Piggyback Agreement; NOW, THEREFORE, the parties agree as follows:

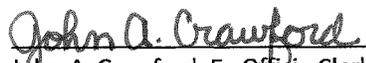
1. The Vendor shall honor for Nassau County the same prices under the same terms and conditions as indicated in the Piggyback Agreement, attached hereto as Attachment "A" and incorporated by reference as if fully set forth herein. Additional terms or conditions whether submitted purposely or inadvertently, shall have no force or effect.
2. Notwithstanding any other provision of the piggyback contract to the contrary:
  - a. The term of this agreement shall be two (2) years beginning October 17, 2011 and ending October 16, 2013, during which term total purchases may/shall not exceed \$50,000.00 unless approved by the Nassau County Board of County Commissioners.
  - b. Upon mutual agreement, the County and the Vendor may renew the agreement, in whole or in part, for a period that may not exceed three (3) years or the term of the contract, whichever period is longer. Any renewal shall specify the renewal price, as set forth in the solicitation response. The renewal must be in writing and signed by both parties, and is contingent upon satisfactory performance evaluations and subject to availability of funds.

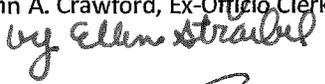
BOARD OF COUNTY COMMISSIONERS  
NASSAU COUNTY, FLORIDA

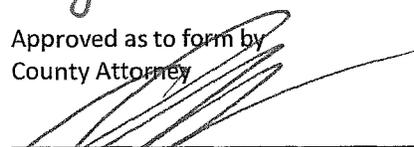
  
 By: Daniel B. Leeper Date: 5-15-13  
 Its: Chair

  
 By: 12/28/12  
 Its: Chair (or designee)

ATTEST TO CHAIR'S SIGNATURE (if applicable)

  
 John A. Crawford, Ex-Officio Clerk

by   
 Approved as to form by  
 County Attorney

  
 David A. Hallman

MES  
05-15-13

NAZTEC, INC

  
 By: GREGORY B. FREEL  
 Its:

Address: 802 PARK WEST DR.  
 Sugar Land, TX 77478

RECEIVED  
12/28/12



## C278: NazTec Traffic Signal Controller & Related Equipment

Issued on Mon, 31 Oct, 2011  
 Created on Mon, 31 Oct, 2011 by Darlene Sawyer

**Supplier:**  
 Naztec, Inc.  
 PO Box 765J  
 Sugar Land, TX 77487  
 United States  
 Phone: 1281-240-7233  
 Fax: 1281-240-7238  
 Contact: Bryan Beyer

**Ship To:**  
 DEPARTMENT OF TRANSPORTATION  
 D2 PURCHASING OFF.386-758-3798  
 1109 S. MARION AVE. MS-2015  
 LAKE CITY, FL 32025-5874  
 United States

**Bill To:**  
 DEPARTMENT OF TRANSPORTATION  
 FINANCIAL SERVICES 386-758-3700  
 1109 S MARION AVE. MS-2006  
 LAKE CITY, FL 32025  
 United States

**Deliver To:**  
 Darlene Sawyer

**Definitions:**

Description: Advanced Transportation Management System (ATMS) Equipment for NazTec Traffic Signal Controller Equipment and Intelligent Transportation System Devices. This is a 24 month Term Contract whereby the Vendor agrees to furnish controller cabinets, software, maintenance with Ethernet and miscellaneous apparatus and components on an as needed bases at specified pricing during a prescribed period of time for various counties and locations in Northeast Florida.

Contract ID: ITB-DOT-11/12-2036-DS

Contact: Darlene Sawyer

Effective Date: Mon, 17 Oct, 2011

Expiration Date: Wed, 16 Oct, 2013

Contract Type: Supplier

Is Blanket Purchase Order: No

Release Required: Yes

Currency: US Dollar

**Overall Limit:**

**Item Limits:**

Item Limits by: Amount

**Release Limits:**

Minimum Allowed per Release:

Id	Supplier	Description	Discount
1	Naztec, Inc.	Supplier pricing terms for this contract	No Discount

Ship To Code: 55-S23200  
 Shipping Method:  
 FOB Code:  
 FOB Code Description:  
 Terms and Conditions: [http://dms.myflorida.com/mfmp\\_PO\\_TC](http://dms.myflorida.com/mfmp_PO_TC)  
 P Card Order?:

**Attachments::**

File Name	Appendix Description
ITB-DOT-11-12-2036-DS.pdf	Bid
ADDENDUM No. 1.pdf	Addendum 1
ADDENDUM NO.2.pdf	Addendum 2
FHWA Approval & FIN Projects.pdf	
NazTec Inc..pdf	Naztec Bid
Econolit.pdf	Econolit Bid
Highway Tech Signal.pdf	Highway Tech Signal Bid
Walker Brothers.pdf	Walker Brothers Bid
Bid Tab 2036.pdf	Bid Tabulation
Signed Justification to Award.pdf	
Conflict of Interest Employee.pdf	
Conflict of Interest Selection Committee.pdf	

## Contract Attachments

- ATTACHMENT by **Darlene Sawyer** on *Monday, October 31, 2011 at 8:51 AM*  
ITB-DOT-11-12-2036-DS.pdf (1109673 bytes)
- ATTACHMENT by **Darlene Sawyer** on *Monday, October 31, 2011 at 8:52 AM*  
ADDENDUM No. 1.pdf (47893 bytes)
- ATTACHMENT by **Darlene Sawyer** on *Monday, October 31, 2011 at 8:52 AM*  
ADDENDUM NO.2.pdf (46882 bytes)
- ATTACHMENT by **Darlene Sawyer** on *Monday, October 31, 2011 at 8:53 AM*  
FHWA Approval & FIN Projects.pdf (58755 bytes)
- ATTACHMENT by **Darlene Sawyer** on *Monday, October 31, 2011 at 8:54 AM*  
NazTec Inc..pdf (648707 bytes)
- ATTACHMENT by **Darlene Sawyer** on *Monday, October 31, 2011 at 8:55 AM*  
Econolit.pdf (329673 bytes)
- ATTACHMENT by **Darlene Sawyer** on *Monday, October 31, 2011 at 8:56 AM*  
Highway Tech Signal.pdf (580775 bytes)
- ATTACHMENT by **Darlene Sawyer** on *Monday, October 31, 2011 at 8:56 AM*  
Walker Brothers.pdf (517535 bytes)
- ATTACHMENT by **Darlene Sawyer** on *Monday, October 31, 2011 at 8:57 AM*  
Bid Tab 2036.pdf (21795 bytes)
- ATTACHMENT by **Darlene Sawyer** on *Monday, October 31, 2011 at 8:57 AM*  
Signed Justification to Award.pdf (35566 bytes)
- ATTACHMENT by **Darlene Sawyer** on *Monday, October 31, 2011 at 8:57 AM*  
Conflict of Interest Employee.pdf (58029 bytes)
- ATTACHMENT by **Darlene Sawyer** on *Monday, October 31, 2011 at 9:01 AM*  
Conflict of Interest Selection Committee.pdf (62925 bytes)

INTER



MEMO

OFFICE

**To:** File – Traffic Signal Controllers and  
Related Equipment  
**From:** Darlene Sawyer  
**Subject:** Justification for Award  
**Date:** October 10, 2011

**JUSTIFICATION FOR AWARD**

PROJECT: ITB-DOT-11/12-2036-DS Purchase of Traffic Signal Controllers and Related Equipment to be delivered to various counties and locations in Northeast Florida. Equipment specifications were prepared by District Two ITS Engineer.

Per Peter Vega, Project Manager, Naztec, Inc. met all the specifications and their pricing (\$6,364,931.00) is within budget. Mr. Vega recommends award to this vendor based on the capability of performing the work and providing the materials needed on this contract and the stellar references from Seminole County, City of Gainesville and Duval County.

Based upon submitted bidding document and all pertinent information, the Procurement Department requests a decision from the Executive Committee on whether to award:

Recommended for Award:  Rejected:

  
\_\_\_\_\_  
District Secretary

State of Florida  
Department of Transportation  
District 2 Procurement Office  
1109 South Marion Avenue  
Lake City, Florida 32025-5874

**INVITATION TO BID REGISTRATION**

\*\*\*\*\*

**PLEASE COMPLETE AND RETURN THIS FORM ASAP  
TO THE ABOVE ADDRESS OR FAX TO (386) 758-3791**

\*\*\*\*\*

Bid Number: ITB-DOT-11/12-2036-DS\_\_\_\_\_

Title: TRAFFIC SIGNAL CONTROLLERS AND RELATED EQUIPMENT\_\_\_\_\_

Bid Due Date & Time: OCTOBER 4, 2011 @ 2:00 P.M.\_\_\_\_\_

Potential bidders should notify our office by returning this Bid Registration Form as soon as possible after downloading. Complete the information below and fax this sheet only to the Florida Department of Transportation Procurement Office at (386) 758-3791, or mail to the address noted above.

**THE INVITATION TO BID DOCUMENT YOU RECEIVED IS SUBJECT TO CHANGE. Notice of changes (addenda), will be posted on the Florida Vendor Bid System at www.myflorida.com , under this bid number (click on "BUSINESS", click on "Doing Business with the State", under "Everything for Vendors and Customers", click on "Vendor Bid System (VBS)", then click on "Search Advertisements", click on the drop-down arrow beside the box under Advertisement Type, select Competitive Solicitation, click on the drop-down arrow beside the box under Agency, select DEPARTMENT OF TRANSPORTATION, then go to the bottom of the same page and click on Initiate Search). It is the responsibility of all potential bidders to monitor this site for any changing information prior to submitting your bid.**

Company Name: Naztec, Inc.

Address: P.O. Box 765

City, State, Zip: Sugar Land, TX 77487-0765

Telephone: (281 ) 240-7233 Fax Number: ( 281 ) 240-7238

Contact Person: Bryan B. Beyer

Internet E-Mail Address: bryanbeyer@naztec.com

For further information on this process, you may e-mail or telephone:  
Darlene Sawyer (386) 961-7732, darlene.sawyer@dot.state.fl.us

**BID SHEET**

**BID #:** ITB-DOT-11/12-2036-DS

**FOB:** SEE DELIVERY ADDRESSES

BELOW ON CONTINUED BID PAGE

**BID TITLE:** TRAFFIC SIGNAL CONTROLLERS AND RELATED EQUIPMENT

Advanced Transportation Management System (ATMS) Equipment for NazTec Traffic Signal Controller Equipment and Intelligent Transportation System Devices. This is a 24 month Term Contract whereby the Vendor agrees to furnish controller cabinets, software, maintenance with Ethernet and miscellaneous apparatus and components on an as needed bases at specified pricing during a prescribed period of time for various counties and locations in Northeast Florida.

**BID AS SPECIFIED**

The "NazTec" product is being bid specific due to product connectivity with existing equipment, training and knowledge already in place, and the need to provide compatibility in installation, service and performance.

Part 1 (Software) Subtotal:	\$ <u>4,503,931.00</u>
Part 2 (Training/Integration Subtotal:	\$ <u>296,100.00</u>
Part 3 (Maintenance) Subtotal:	\$ <u>390,000.00</u>
Part 4 (Field Hardware) Subtotal:	\$ <u>1,066,601.00</u>
Part 5 (Network Appliances) Subtotal:	\$ <u>108,299.00</u>

**CONTRACT AWARDED ON TOTAL AMOUNT BID =** \$ 6,364,931.00

**\*\*Prices shall be firm, net, delivered prices FOB destination.**

**DELIVERY:** Delivery will be made within 90 days after receipt of Purchase Order.

Is this product available with recycled content? Yes  No

If yes, please send information separate from this Invitation to Bid (See Recycled Material Special Condition for more information).

**MFMP Transaction Fee:**

All payment(s) to the vendor resulting from this competitive solicitation **WILL** be subject to the 1% MFMP Transaction Fee in accordance with the attached Form PUR 1000 General Contract Condition #14.

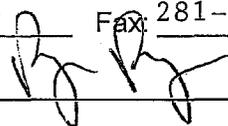
**NOTE:** In submitting a response, the bidder acknowledges they have read and agree to the solicitation terms and conditions and their submission is made in conformance with those terms and conditions.

**ACKNOWLEDGEMENT:** I certify that I have read and agree to abide by all terms and conditions of this solicitation and that I am authorized to sign for the bidder. I certify that the response submitted is made in conformance with all requirements of the solicitation.

Bidder: Naztec, Inc. FEID# 74-2019144

Address: P.O. Box 765 City, State, Zip: Sugar Land, TX 77487-0765

Phone: 281-240-7233 Fax: 281-240-7238 E-mail: bryanbeyer@naztec.com

Authorized Signature:  Date: 10-03-11

Printed/Typed: Bryan B. Beyer Title: Systems Manager

**CONTINUED ON NEXT PAGE**

Bid Number:

## TECHNICAL SPECIFICATIONS

### **Advanced Transportation Management System (ATMS) Equipment Contract NazTec Traffic Signal Controller Equipment and Intelligent Transportation System Devices**

#### **Contract Scope**

The North Florida Transportation Planning Organization (NFTPO) has tasked the Department's District Two Intelligent Transportation Systems (ITS) Office with the deployment of arterial roadway Advanced Traffic Management System (ATMS) devices. These deployment's were generated by the Northeast Florida ITS Coalition during the creation of the Regional ITS Master Plan by the NFTPO. Counties encompassed in this Coalition include Nassau, St. Johns, Clay and Duval County. Part of the Department's tasks will be to purchase and provide ATMS components to local agencies for deployment along the arterial roadway system.

Nassau, St. Johns, Clay and Duval County have all decided to deploy Naztec traffic signal controller equipment along the arterial roadway system. They made this decision due to advanced research performed by their Traffic Engineering personnel. The Ethernet capabilities of the Naztec system and the robustness of its ATMSnow software system led to this decision. Also, each County has determined that having one cohesive traffic controller system and software package managing arterial corridors that overlap territories would be the most beneficial and cost effective method for handling traffic. A Public Interest Finding request for approval from FHWA to solely utilize the Naztec system will be or has been submitted by each County for each roadway. FHWA has provided concurrence all submitted projects and is currently reviewing pending projects (see attached example).

This contract includes devices for the upgrade or replacement of traffic signal controller equipment. Likewise, it will incorporate Intelligent Transportation System equipment that is compatible with the Naztec traffic controller products. ITS equipment that would be included in this contract includes; CCTV cameras (digital IP based), Modular Dynamic Message Signs (similar to the ADDCO Brick DMS), Roadway Weather Information System devices (RWIS for rain, pressure, wind and temperature), vehicle detection, parking and transit signal priority. Software modules will also be required in this contract to operate the equipment, maintain the system and troubleshoot any problems. A table listing the equipment is provided for bid submittal.

**TABLE 1: SOFTWARE, Naztec (no equivalent will be accepted)**

Description	Item Number	Qty.	Unit	Unit Cost	Total Cost
Regional Traffic Signal Control Module	1	1	Ea	75,000	75,000
CCTV – Camera Control Module	2	1	Ea	25,000	25,000
Dynamic Message Signs Module	3	1	Ea	25,000	25,000
Incident Management Module	4	1	Ea	25,000	25,000
Parking Guidance Module	5	1	Ea	35,000	35,000
Adaptive Central Control Module	6	1	Ea	275,000	275,000
Traffic Responsive Module	7	1	Ea	75,000	75,000
Transit Priority Module	8	1	Ea	125,000	125,000
Traveler Information Module	9	1	Ea	35,000	35,000
Traffic Maintenance Module	10	1	Ea	35,000	35,000
Local Adaptive Control Module (per Intersection)	11	1	Ea	1,750	1,750
Local 2070 software	12	1	Ea	700	700
Local NTCIP Transit Priority Module	13	1	Ea	1,200	1,200
WEB.now	14	1	Ea	35,000	35,000
AVL.now (Public Vehicle Tracking Module)	15	1	Ea	375,000	375,000
EMERGENCY.now	16	1	Ea	2,100,000	2,100,000
PRIORITY.now	17	1	Ea	1,200,000	1,200,000
PARTNER.now (for Palm™ or Windows™ Mobile)	18	1	Ea	2,995	2,995
Windows™ Mobile GPS/GIS Interface	19	1	Ea	10,000	10,000
Latest Synchro/SimTraffic from Trafficware	20	1	Ea	4,098	4,098
Latest 3D Viewer from Trafficware	21	1	Ea	999	999
Latest Warrants from Trafficware	22	1	Ea	549	549
Laptop Upload/Download Software	23	1	Ea	5,000	5,000
Desktop Upload/Download Software	24	1	Ea	10,000	10,000
Detection Control System (DCS) Software	25	1	Ea	1,500	1,500
SynchroGreen License	26	1	Ea	13,500	13,500
SynchroGreen One-Time per Project Setup and Training	27	1	Ea	11,500	11,500
AlphaGuard	28	1	Ea	140	140
<b>TABLE I: SUBTOTAL</b>				<b>\$ 4,503,931</b>	

TABLE 2: SERVICES: Training or Integration, Naztec only

Description	Item Number	Qty.	Unit	Unit Cost	Total Cost
Database Conversion Integration (per intersection)	1	1	Ea	250	250
Database Conversion Integration (per 100 intersections)	2	1	Ea	20,000	20,000
Intersection Graphic Integration (per location)	3	1	Ea	250	250
Intersection Graphic Integration(per 100 locations)	4	1	Ea	20,000	20,000
Central System Training Cost	5	1	Ea	6,500	6,500
Field Hardware Training Cost	6	1	Ea	6,500	6,500
CCTV – Camera Control Module Integration	7	1	Ea	15,000	15,000
Dynamic Message Signs Module Integration	8	1	Ea	15,000	15,000
Incident Management Module Integration	9	1	Ea	15,000	15,000
Parking Guidance Module Integration	10	1	Ea	15,000	15,000
Adaptive Control Module Integration	11	1	Ea	45,000	45,000
Transit Priority Module Integration	12	1	Ea	45,000	45,000
Traveler Information Module Integration	13	1	Ea	15,000	15,000
Traffic Maintenance Module Integration	14	1	Ea	15,000	15,000
Local Adaptive Control Module Integration	15	1	Ea	15,000	15,000
Engineering Services for Software Integration	17	1	Pr Hr	150	150
Equipment (on-site Integration - per day) plus component expense	18	1	Ea	1,500	1,500
Equipment (3-day on-site integration/test)	19	1	Ea	4,500	4,500
Server Software Integration for equipment	20	1	Ea	2,500	2,500
Workstation Software Integration for equipment	21	1	Ea	1,200	1,200
Integration Services for equipment (per hour)	22	1	Pr Hr	100	100
Integration of intersection timing with data collection; Controllers using existing Synchro Files (per intersection)	25	1	Ea	4,800	4,800
Integration of intersection timing with data collection; Controllers generating new Synchro Files (per intersection)	26	1	Ea	6,000	6,000
Integration of intersection timing controllers using "existing" Synchro files (per intersection)	27	1	Ea	3,000	3,000
Integration of intersection timing; Controllers "generating new" Synchro files (per intersection)	28	1	Ea	4,500	4,500
Controllers "generating new" Synchro files (per intersection)	29	1	Ea	4,500	4,500
Integration of Local Adaptive module for	30	1	Ea	4,500	4,500

Controllers (per intersection)					
Integration of Traffic Responsive plan selection for Controllers (per intersection)	31	1	Ea	2,850	2,850
SynchroGreen Additional 3-days of Training	32	1	Ea	7,500	7,500
<b>TABLE 2: SUBTOTAL</b>				\$	296,100

**TABLE 3: MAINTENANCE FOR NAZTEC EQUIPMENT**

<b>Description</b>	<b>Item Number</b>	<b>Qty.</b>	<b>Unit</b>	<b>Unit Cost</b>	<b>Total Cost</b>
EMERGENCY.Now: (yearly – follow on) (LICENSING? <u>Y</u> <u>N</u> )	32	1	Ea	210,000	210,000
PRIORITY.Now: (yearly – follow on) (Licensing? <u>Y</u> <u>N</u> )	33	1	Ea	120,000	120,000
ATMS Now: (yearly – follow on) (Licensing? <u>Y</u> <u>N</u> )	34	1	Ea	7,500	7,500
Adaptive Responsive: (yearly – follow on) (Licensing? <u>Y</u> <u>N</u> )	35	1	Ea	45,000	45,000
Traffic Responsive: (yearly – follow on) (Licensing? <u>Y</u> <u>N</u> )	36	1	Ea	7,500	7,500
<b>TABLE 3: SUBTOTAL</b>				<b>\$ 390,000</b>	

**TABLE 4: Field Hardware, Naztec**

Description	Item Number	Qty.	Unit	Unit Cost	Total Cost
# 980 TS2-1 Controllers 2 Port	1	1	Ea	1,550	1,550
# 980 TS2-2 Controllers 2 Port	2	1	Ea	1,850	1,850
# 980 TS2-1 Controllers w/ Ethernet 2 Port	3	1	Ea	2,350	2,350
# 980 TS2-2 Controllers w/ Ethernet 2 Port	4	1	Ea	2,450	2,450
# 980 TS2-1 Controllers 4 Port	5	1	Ea	2,050	2,050
# 980 TS2-2 Controllers 4 Port	6	1	Ea	2,350	2,350
# 980 TS2-1 Controllers w/ Ethernet 4 Port	7	1	Ea	2,850	2,850
# 980 TS2-2 Controllers w/ Ethernet 4 Port	8	1	Ea	2,950	2,950
ATC Controller	9	1	Ea	2,850	2,850
ATC Controller Upgrade	10	1	Ea	1,650	1,650
ATC Controller Upgrade for new cabinet purchase	11	1	Ea	1,350	1,350
# 980 ENET Upgrade	12	1	Ea	1,250	1,250
BIU w/ RS232	13	1	Ea	300	300
TS2 Cabinet Power Supply	14	1	Ea	350	350
Detectors 2-Channel	15	1	Ea	125	125
Detectors 4-Channel	16	1	Ea	250	250
Detectors 2-Channel LCD	17	1	Ea	225	225
Detectors 4-Channel LCD	18	1	Ea	350	350
TS1 Shelf Detector 1-Channel	19	1	Ea	125	125
MMU w/ RS232	20	1	Ea	575	575
MMU w/ RS232 Tri Color	21	1	Ea	675	675
MMU LCD	22	1	Ea	879	879
MMU LCD w/ Ethernet	23	1	Ea	925	925
CMU LCD w/ RS232	24	1	Ea	675	675
Load Switches for a cabinet	25	1	Ea	30	30
Flasher for a cabinet	26	1	Ea	30	30
Flash Relay for a cabinet	27	1	Ea	30	30
ISO Interface Panel	28	1	Ea	250	250
Loop Interface Panel	29	1	Ea	300	300
Communication Panels	30	1	Ea	150	150
D Connector Panel	31	1	Ea	300	300
Accuwave Presence Microwave Detector	32	1	Ea	300	300
Microwave Detector interface panel	33	1	Ea	300	300
Fiber Interface Panel	34	1	Ea	350	350
External FSK Modem	35	1	Ea	300	300
Modem cable for dial-up/fiber/FSK/Radio Modems	36	1	Ea	25	25
External Dial-Up Modem	37	1	Ea	25	25
Punch down block interface	38	1	Ea	50	50
# 2070 Lite NEMA Controller	39	1	Ea	3,600	3,600
# 2070 Lite Controller	40	1	Ea	3,000	3,000
# 2070 FIO-8 NEMA	41	1	Ea	1,250	1,250
TS2 Test Box	42	1	Ea	2,500	2,500

**TABLE 4: Field Hardware, Naztec**

Description	Item Number	Qty.	Unit	Unit Cost	Total Cost
# RS232 Opto-Isolator Box w/ Cables	43	1	Ea	300	300
Rack for FSK Rack Modems	44	1	Ea	300	300
SDLC Cable	45	1	Ea	85	85
#RS232 Cable	46	1	Ea	25	25
Paint cabinet either inside or outside	47	1	Ea	500	500
Chronomax Time Clock	48	1	Ea	285	285
Chronomax Time Clock w/ Pigtail	49	1	Ea	300	300
Flasher Cabinet w/o Time Clock or Pager Unit	50	1	Ea	550	550
Chronomax Pager Unit Upgrade Kit	51	1	Ea	500	500
Pager Verification Unit (1 needed for central)	52	1	Ea	550	550
Chronomax IP Unit Upgrade Kit	53	1	Ea	750	750
Central Pager Software	54	1	Ea	1,000	1,000
GPS Unit for local controller	55	1	Ea	500	500
1 Section 12" Black Polycarbonate Signal Head	56	1	Ea	50	50
3 Section 12" Black Polycarbonate Signal Head	57	1	Ea	150	150
5 Section 12" Black Polycarbonate Signal Head	58	1	Ea	250	250
1 Section 12" Black Aluminum Signal Head	59	1	Ea	80	80
3 Section 12" Black Aluminum Signal Head	60	1	Ea	200	200
5 Section 12" Black Aluminum Signal Head	61	1	Ea	300	300
Pedestrian Clamshell	62	1	Ea	175	175
Detector Surge Surrestor	63	1	Ea	10	10
IP Traffic Counter (1-500)	64	1	Ea	1,550	1,550
IP Traffic Counter (500+)	65	1	Ea	1,400	1,400
Ethernet Card for Naztec Controller	66	1	Ea	750	750
Cable to power a TS2-2 controller in a TS2-1 cabinet	67	1	Ea	75	75
Generator Plug Adder to new Naztec cabinet	68	1	Ea	750	750
Photo Cell Adder to new Naztec cabinet	69	1	Ea	750	750
Rack Cabinet UPS Adder (Unit and 4 Batteries)	70	1	Ea	3,850	3,850
GPS Adder to new Naztec cabinet	71	1	Ea	500	500
Rack Cabinet w/ UPS	72	1	Ea	19,230	19,230
Rack Cabinet w/ UPS, Copper	73	1	Ea	22,230	22,230
Rack Cabinet w/ UPS, Fiber	74	1	Ea	21,230	21,230
Rack Cabinet w/ UPS, LCD, IP Monitor	75	1	Ea	20,230	20,230
Rack Cabinet w/ UPS, Copper, LCD Dets, IP Monitor	76	1	Ea	23,230	23,230
Rack Cabinet w/ UPS, Fiber, LCD Dets, IP Monitor	77	1	Ea	22,230	22,230
Rack Cabinet w/ UPS, Copper, Encoder	78	1	Ea	25,230	25,230
Rack Cabinet w/ UPS, Fiber, Encoder	79	1	Ea	24,230	24,230
Rack Cabinet w/ UPS, Copper, LCD Dets, IP Monitor, Encoder	80	1	Ea	26,230	26,230
Rack Cabinet w/ UPS, Fiber, LCD Dets, IP Monitor, Encoder	81	1	Ea	25,230	25,230
Rack Cabinet w/ UPS w/o Controller	82	1	Ea	18,230	18,230
Rack Cabinet w/ UPS, Copper w/o Controller	83	1	Ea	21,230	21,230
Rack Cabinet w/ UPS, Fiber w/o Controller	84	1	Ea	20,230	20,230

**TABLE 4: Field Hardware, Naztec**

Description	Item Number	Qty.	Unit	Unit Cost	Total Cost
Rack Cabinet w/ UPS, LCD, IP Monitor w/o Controller	85	1	Ea	19,230	19,230
Rack Cabinet w/ UPS, Copper, LCD Dets, IP Monitor w/o Controller	86	1	Ea	22,230	22,230
Rack Cabinet w/ UPS, Fiber, LCD Dets, IP Monitor w/o Controller	87	1	Ea	21,230	21,230
Rack Cabinet w/ UPS, Copper, Encoder w/o Controller	88	1	Ea	24,230	24,230
Rack Cabinet w/ UPS, Fiber, Encoder w/o Controller	89	1	Ea	23,230	23,230
Rack Cabinet w/ UPS, Copper, LCD Dets, IP Monitor, Encoder w/o Controller	90	1	Ea	25,230	25,230
Rack Cabinet w/ UPS, Fiber, LCD Dets, IP Monitor, Encoder w/o Controller	91	1	Ea	24,230	24,230
Rack Cabinet w/ UPS w/o Controller, Monitor	92	1	Ea	17,730	17,730
Rack Cabinet w/ UPS, Copper w/o Controller, Monitor	93	1	Ea	20,730	20,730
Rack Cabinet w/ UPS, Fiber w/o Controller, Monitor	94	1	Ea	19,730	19,730
Rack Cabinet w/ UPS, LCD, IP Monitor w/o Controller, Monitor	95	1	Ea	18,730	18,730
Rack Cabinet w/ UPS, Copper, LCD Dets, w/o Controller, Monitor	96	1	Ea	21,730	21,730
Rack Cabinet w/ UPS, Fiber, LCD Dets, w/o Controller, Monitor	97	1	Ea	20,730	20,730
Rack Cabinet w/ UPS, Copper, Encoder w/o Controller, Monitor	98	1	Ea	23,730	23,730
Rack Cabinet w/ UPS, Fiber, Encoder w/o Controller, Monitor	99	1	Ea	22,730	22,730
Rack Cabinet w/ UPS, Copper, LCD Dets, Encoder w/o Controller, Monitor	100	1	Ea	24,730	24,730
Rack Cabinet w/ UPS, Fiber, LCD Dets, Encoder w/o Controller, Monitor	101	1	Ea	23,730	23,730
Rack Cabinet 32 Channel Detection adder	102	1	Ea	1,500	1,500
Video Detection 1 approach	103	1	Ea	8,000	8,000
Video Detection 2 approach	104	1	Ea	9,800	9,800
Video Detection 4 approach	105	1	Ea	16,900	16,900
Video Detection 5 approach	106	1	Ea	21,500	21,500
Video Detection 6 approach	107	1	Ea	29,500	29,500
Video Cable per ft (for camera)	108	1	Ea	2	2
Inline Isolator	109	1	Ea	250	250
Video Power Panel	110	1	Ea	480	480
Video IP Comm. Board	111	1	Ea	1,500	1,500
Video Rack Chasis	112	1	Ea	400	400
Video Detection Camera	113	1	Ea	1,200	1,200
Video 1 channel processor	114	1	Ea	1,950	1,950
Video 2 channel processor	115	1	Ea	3,000	3,000
Video mounting kit	116	1	Ea	100	100
TS2-1 Controller & Type 4 Cabinet	117	1	Ea	5,800	5,800
TS2-2 Controller & Type 4 Cabinet	118	1	Ea	6,300	6,300
Type 4 Cabinet	119	1	Ea	4,800	4,800
TS2-1 Controller & Type 4 Cabinet w/ Ethernet	120	1	Ea	6,500	6,500
TS2-2 Controller & Type 4 Cabinet w/ Ethernet	121	1	Ea	7,000	7,000
TS2-1 Controller & Type 4 Cabinet w/LCD	122	1	Ea	6,300	6,300
TS2-2 Controller & Type 4 Cabinet w/LCD	123	1	Ea	6,800	6,800
Type 4 Cabinet w/LCD	124	1	Ea	5,300	5,300

**TABLE 4: Field Hardware, Naztec**

Description	Item Number	Qty.	Unit	Unit Cost	Total Cost
TS2-1 Controller & Type 4 Cabinet w/ Ethernet, LCD	125	1	Ea	7,000	7,000
TS2-2 Controller & Type 4 Cabinet w/ Ethernet, LCD	126	1	Ea	7,500	7,500
TS2-1 Controller & Type 5 Cabinet	127	1	Ea	6,210	6,210
TS2-2 Controller & Type 5 Cabinet	128	1	Ea	6,710	6,710
Type 5 Cabinet	129	1	Ea	5,210	5,210
TS2-1 Controller & Type 5 Cabinet w/ Ethernet	130	1	Ea	6,910	6,910
TS2-2 Controller & Type 5 Cabinet w/ Ethernet	131	1	Ea	7,410	7,410
TS2-1 Controller & Type 5 Cabinet w/LCD	132	1	Ea	6,710	6,710
TS2-2 Controller & Type 5 Cabinet w/LCD	133	1	Ea	7,210	7,210
Type 5 Cabinet w/LCD	134	1	Ea	5,710	5,710
TS2-1 Controller & Type 5 Cabinet w/ Ethernet, LCD	135	1	Ea	7,410	7,410
TS2-2 Controller & Type 5 Cabinet w/ Ethernet, LCD	136	1	Ea	7,910	7,910
TS2-1 Controller & Type 6 Cabinet	137	1	Ea	6,710	6,710
TS2-2 Controller & Type 6 Cabinet	138	1	Ea	7,210	7,210
Type 6 Cabinet	139	1	Ea	5,710	5,710
TS2-1 Controller & Type 6 Cabinet w/ Ethernet	140	1	Ea	7,410	7,410
TS2-2 Controller & Type 6 Cabinet w/ Ethernet	141	1	Ea	7,910	7,910
TS2-1 Controller & Type 6 Cabinet w/LCD	142	1	Ea	7,210	7,210
TS2-2 Controller & Type 6 Cabinet w/LCD	143	1	Ea	7,710	7,710
Type 6 Cabinet w/LCD	144	1	Ea	6,210	6,210
TS2-1 Controller & Type 6 Cabinet w/ Ethernet, LCD	145	1	Ea	7,910	7,910
TS2-2 Controller & Type 6 Cabinet w/ Ethernet, LCD	146	1	Ea	8,410	8,410
Shelf Mount Cabinet Rack adder	147	1	Ea	1,750	1,750
Shelf Mount Cabinet UPS adder	148	1	Ea	5,200	5,200
Cabinet Rear Door adder	149	1	Ea	750	750
Cabinet Size Increase adder	150	1	Ea	500	500
Cabinet 16 Channel Detection adder	151	1	Ea	1,650	1,650
Cabinet 32 Channel Detection adder	152	1	Ea	3,000	3,000
Cabinet Shell Size 5, empty	153	1	Ea	1,200	1,200
Cabinet Shell Size 6, empty	154	1	Ea	1,500	1,500
UPS Inverter	155	1	Ea	2,650	2,650
UPS Battery	156	1	Ea	250	250
UPS Bypass	157	1	Ea	300	300
Weather Station for Temperature	158	1	Ea	3,000	3,000
Weather Station for Temperature and Wind Speed	159	1	Ea	4,500	4,500
DCS detector	160	1	Ea	1,500	1,500
Naztec Accuwave Presence Microwave Detector	161	1	Ea	1,500	1,500
Naztec Accuwave Interface Panel	162	1	Ea	250	250
Naztec Accuwave Cable per ft	163	1	Ea	2	2
Naztec UPS Cabinet Alternate Power Source	164	1	Ea	1,550	1,550
Naztec Cabinet Light Switch	165	1	Ea	8	8
Naztec Cabinet Aux Light Panel	166	1	Ea	44	44
Naztec Dual Fan and Light Panel /w thermostat	167	1	Ea	296	296
Naztec Resistor Pack /w MOV 1 bank (4 banks in a cabinet)	168	1	Ea	40	40
Naztec LED Test Panel	169	1	Ea	400	400
Ethernet Adapter for School Clock	170	1	Ea	750	750
Enhanced Adaptive License	171	1	Ea	9,000	9,000
Naztec External UPS Adder	172	1	Ea	6,200	6,200
<b>TABLE 4: SUBTOTAL</b>				<b>\$</b>	<b>1,066,601</b>

**TABLE 5: Network Appliances must be capable of interfacing with Naztec equipment.**

Description	Item Number	Qty.	Unit	Unit Cost	Total Cost
Dell 2955 Server or equivalent	1	1	Ea	8,200	8,200
Dell Precision Workstation or equivalent	2	1	Ea	4,800	4,800
Dell Precision Remote Dial-up Workstations or equivalent	3	1	Ea	4,800	4,800
Dell Latitude 5500 or equivalent Laptop	4	1	Ea	2,800	2,800
APC Smart UPS 2200VA or equivalent	5	1	Ea	2,500	2,500
Dell Network Rack System or equivalent	6	1	Ea	5,500	5,500
Rack Mounted Modems Unit for Naztec eq.	7	1	Ea	300	300
Rack Mounted Modems for Naztec eq.	8	1	Ea	300	300
Rack for rack mounted FO modems (19" Rack for 20 Modems)	9	1	Ea	500	500
Rack mounted FO modems	10	1	Ea	1,350	1,350
Palm Pilot or equivalent w/ Naztec Interface Software	11	1	Ea	500	500
Dell Windows Mobile or equivalent Mobile w/ Naztec Interface Software	12	1	Ea	750	750
Dell Windows Mobile w/GPS or equivalent Mobile w/ Naztec Interface Software	13	1	Ea	950	950
Local MDS 9810 or equivalent	14	1	Ea	2,350	2,350
Master MDS 9810 or equivalent	15	1	Ea	2,550	2,550
Local MDS INET2 or equivalent	16	1	Ea	2,750	2,750
Master MDS INET2 or equivalent	17	1	Ea	2,950	2,950
Power Supply for Radio	18	1	Ea	150	150
Cisco 1410 or equivalent	19	1	Ea	6,500	6,500
Local MDS Mercury or equivalent	20	1	Ea	2,850	2,850
Master MDS Mercury or equivalent	21	1	Ea	3,750	3,750
3GB Omni-directional Antenna	22	1	Ea	400	400
6GB Omni-directional Antenna	23	1	Ea	600	600
9GB Omni-directional Antenna	24	1	Ea	750	750
Yagi Antenna	25	1	Ea	300	300
Cable for Antenna's listed (per foot)	26	1	Ea	2	2
Radio Connector Kit	27	1	Ea	50	50
Cisco IE3000 or equivalent Industrial Switch single-mode port	28	1	Ea	2,150	2,150
Cisco IE3000 or equivalent Industrial Switch multi-mode port	29	1	Ea	2,150	2,150
Foundry Layer 3 or equivalent	30	1	Ea	4,250	4,250
Gbic Optics LX for switch	31	1	Ea	250	250
Gbic Optics ZX for switch	32	1	Ea	1,700	1,700
Gbic Optics MTRJ for switch	33	1	Ea	350	350
Fiber Optic Patch Cables for switch	34	1	Ea	125	125
Bosch Camera w/ PTZ or equivalent compatible with Naztec's ATMS	35	1	Ea	3,550	3,550
Camera Cable per ft	36	1	Ea	2	2

Coretec Video Encoder 1 channel or equivalent compatible with Naztec's ATMS	37	1	Ea	2,540	2,540
Video Encoder 2 channel or equivalent compatible with Naztec's ATMS	38	1	Ea	2,750	2,750
Video Encoder 4 channel or equivalent compatible with Naztec's ATMS	39	1	Ea	3,250	3,250
Actelis ML688 or equivalent Copper Over Ethernet Device at Intersection	40	1	Ea	3,750	3,750
Actelis ML1300 or equivalent Copper Over Ethernet Device at Hub	41	1	Ea	14,580	14,580
Wireless Detection Access Box for Contact Closure	42	1	Ea	120	120
Wireless Detection Extension Card	43	1	Ea	290	290
Wireless Detection Repeater	44	1	Ea	1,200	1,200
Wireless Detection Mounting Kit	45	1	Ea	125	125
Wireless Detection Flush-mount Wireless Sensor	46	1	Ea	400	400
Wireless Detection Epoxy Tube	47	1	Ea	65	65
Naztec VPN	48	1	Ea	1,500	1,500
<b>TABLE 5: SUBTOTAL</b>				\$	108,299