

**Florida Department of Transportation
Bid Solicitation Notice and Approximate Quantities**

Letting: 08190917 Call Order: 002 Proposal: E8R97 District:08

Counties: POLK

Road Name: SUNTRAX CONNECTED/AUTOMATED VEHICLE TEST FACILITY

Limits: 16470000

Project(s): 43730045201(*) Federal Aid No: N/A

Total Roadway Length:	2.760 Miles	Contract Days:	939
Total Bridge Length:	0.000 Miles	Letting Date:	09/17/19
Total Proposal Length:	2.760 Miles	Contract Execution Days:	10
		Special Start Date:	N/A
		Aquis/Flexible Start Time:	30

Proposal Budget Estimate: \$118,623,943.00

Please read the full advertisement

Description:

Work consists of providing all labor, materials, equipment and incidentals necessary for the construction of the SunTrax Connected/Automated Vehicle Test Facility within 190-acre site in Auburndale Florida, Polk County. The site is located within a new Tolls Testing Facility. Improvements include a combination of over eleven miles of roadway infrastructure with reconfigurable testing environments, twenty buildings to support the operation and maintenance of the infield features, and storm water management facilities to accommodate the infield improvements. No Pre-Bid Conference.

A General Contractors License is required for this project.

For buildings three (3) stories or less in height, a Builders License or General Contractors License is acceptable. Buildings more than 3 stories in height require a General Contractors License. This project has a building more than 3 stories in height.

A copy of the General Contractors License must be received prior to Award.

The General Contractor who is awarded this project shall sub-contract the roadway portion of the contract to contractors who are pre-qualified by the Department for Major Bridges, Grading, Portland Cement Concrete, Hot Plant-Mixed Bituminous Courses and Drainage.

The summary of pay items for this project is listed in the Plans.

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ALT	Item	Description	Unit	Quantity
Section 0001 Roadway				
	0101- 1-	MOBILIZATION (43730045201)	LS	1.000
	0102- 1-	MAINTENANCE OF TRAFFIC (43730045201)	LS	1.000
	0104- 10- 3	SEDIMENT BARRIER	LF	145.000
	0104- 15-	SOIL TRACKING PREVENTION DEVICE	EA	4.000
	0104- 18-	INLET PROTECTION SYSTEM	EA	67.000
	0110- 1- 1	CLEARING & GRUBBING (43730045201)	LS	1.000
	0120- 1-	REGULAR EXCAVATION	CY	364,457.000
	0120- 4-	SUBSOIL EXCAVATION	CY	3,274.000
	0120- 6-	EMBANKMENT	CY	658,766.000
	0160- 4-	TYPE B STABILIZATION	SY	461,398.000
	0285-701-	OPTIONAL BASE, BASE GROUP 01	SY	31,097.000
	0285-706-	OPTIONAL BASE, BASE GROUP 06	SY	664.000
	0285-709-	OPTIONAL BASE, BASE GROUP 09	SY	366,021.000
	0327- 70- 5	MILLING EXIST ASPH PAVT, 2" AVG DEPTH	SY	18,910.000

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ALT	Item	Description	Unit	Quantity
	0334- 1- 12	SUPERPAVE ASPHALTIC CONC, TRAFFIC B	TN	42,417.000
	0334- 1- 52	SUPERPAVE ASPHALTIC CONCRETE, TRAFFIC B, PG76-22	TN	41,611.500
	0334- 1- 56	SUPERPAVE ASPHALTIC CONCRETE, TRAFFIC B, HIGH POLYMER	TN	367.000
	0334- 1-100	SUPERPAVE ASPHALTIC CONCRETE, ROAD DAMAGE PAVEMENT TREATMENT, PROJECT 437300-4-52-01)	EA	1.000
	0334- 1-101	SUPERPAVE ASPHALTIC CONCRETE, ISO 10844, PROJECT 437300-4-52-01	TN	129.000
	0334- 1-102	SUPERPAVE ASPHALTIC CONCRETE, LOW-FRICTION, PROJECT 437300-4-52-01	TN	69.000
	0334- 1-103	SUPERPAVE ASPHALTIC CONCRETE, ROUGH ASPHALT NVH PAVEMENT TREATMENT, PROJECT 437300-4-52-01	EA	1.000
	0334- 1-104	SUPERPAVE ASPHALTIC CONCRETE, DAMAGED ASPHALT NVH PAVEMENT TREATMENT, PROJECT 437300-4-52-01	EA	1.000
	0334- 1-105	SUPERPAVE ASPHALTIC CONCRETE, MANHOLE COVER NVH PAVEMENT, PROJECT 437300-4-52-01	EA	1.000
	0334- 1-106	SUPERPAVE ASPHALTIC CONCRETE, SPEED BUMP NVH PAVEMENT, PROJECT 437300-4-52-01	EA	1.000
	0334- 1-107	SUPERPAVE ASPHALTIC CONCRETE, TECHNOLOGY PAD SURFACE, PROJECT 437300-4-52-01	TN	8,118.000
	0337- 7- 81	ASPHALT CONCRETE FRICTION COURSE, TRAFFIC B, FC-12.5, PG 76-22	TN	2,150.400
	0339- 1-	MISCELLANEOUS ASPHALT PAVEMENT	TN	2,226.700
	0350- 3- 5	PLAIN CEMENT CONCRETE PAVEMENT, 8"	SY	26,042.000
	0350- 3-100	PLAIN CEMENT CONCRETE PAVEMENT, LOW FRICTION TILE, PROJECT 437300-4	EA	1.000
	0350- 3-101	PLAIN CEMENT CONCRETE PAVEMENT, BASALT TILE, PROJECT 437300-4	EA	1.000
	0350- 3-102	PLAIN CEMENT CONCRETE PAVEMENT, STEEL PLATE SURFACE, PROJECT 437300-4	EA	1.000
	0350- 3-103	PLAIN CEMENT CONCRETE PAVEMENT, BELGIAN BLOCK NVH, PROJECT 437300-4	EA	1.000
	0350- 3-104	PLAIN CEMENT CONCRETE PAVEMENT, STEP-UP/STEP-DOWN NVH, PROJECT 437300-4	EA	1.000
	0350- 3-105	PLAIN CEMENT CONCRETE PAVEMENT, SINE WAVE NVH, PROJECT 437300-4	EA	1.000
	0350- 3-106	PLAIN CEMENT CONCRETE PAVEMENT, CONCRETE FREEWAY NVH, PROJECT 437300-4	EA	1.000
	0350- 5-	CLEANING & SEALING JOINTS- CONCRETE PAVEMENT:	LF	42,620.000
	0352- 70-	GRINDING CONCRETE PAVEMENT	SY	26,042.000
	0400- 1- 11	CONCRETE CLASS I, RETAINING WALLS	CY	939.000
	0400- 2- 11	CONCRETE CLASS II, RETAINING WALLS	CY	65.500
	0400- 4- 5	CONCRETE CLASS IV, BRIDGE SUBSTRUCTURE	CY	1,546.600
	0400- 4- 11	CONC CLASS IV, RETAINING WALLS	CY	10.000
	0400- 4- 25	CONCRETE CLASS IV, MASS, SUBSTRUCTURE	CY	11.400
	0415- 1- 3	REINFORCING STEEL- RETAINING WALL	LB	1,377.000
	0415- 1- 6	REINFORCING STEEL- MISCELLANEOUS	LB	184,501.000
	0425- 1-351	INLETS, CURB, TYPE P-5, <10'	EA	27.000
	0425- 1-361	INLETS, CURB, TYPE P-6, <10'	EA	75.000
	0425- 1-451	INLETS, CURB, TYPE J-5, <10'	EA	3.000
	0425- 1-461	INLETS, CURB, TYPE J-6, <10'	EA	19.000

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	0425- 1-521	INLETS, DT BOT, TYPE C,<10'	EA	24.000
	0425- 1-523	INLETS, DT BOT, TYPE C,JBOT, <10'	EA	1.000
	0425- 1-541	INLETS, DT BOT, TYPE D, <10'	EA	30.000
	0425- 1-543	INLETS, DITCH BOTTOM, TYPE D, J BOT, <10'	EA	4.000
	0425- 1-549	INLETS, DT BOT, TYPE D, MODIFY	EA	4.000
	0425- 1-551	INLETS, DT BOT, TYPE E, <10'	EA	9.000
	0425- 1-553	INLETS, DT BOT, TYPE E, J BOT, <10'	EA	1.000
	0425- 1-554	INLETS, DT BOT, TYPE E, J BOT, >10'	EA	2.000
	0425- 1-561	INLETS, DT BOT, TYPE F, <10'	EA	7.000
	0425- 1-571	INLETS, DITCH BOTTOM, TYPE G, <10'	EA	6.000
	0425- 1-581	INLETS, DT BOT, TYPE H, <10'	EA	2.000
	0425- 1-589	INLETS, DT BOT, TYPE H, MODIFY	EA	1.000
	0425- 1-701	INLETS, GUTTER, TYPE S, <10'	EA	30.000
	0425- 1-702	INLETS, GUTTER, TYPE S, >10'	EA	5.000
	0425- 1-703	INLETS, GUTTER, TYPE S, J BOTTOM <10'	EA	3.000
	0425- 1-713	INLETS, GUTTER, TYPE V, J BOT, <10'	EA	3.000
	0425- 1-910	INLETS, CLOSED FLUME	EA	2.000
	0425- 2- 41	MANHOLES, P-7, <10'	EA	1.000
	0425- 2- 61	MANHOLES, P-8, <10'	EA	27.000
	0425- 2- 62	MANHOLES, P-8, >10'	EA	2.000
	0425- 2- 71	MANHOLES, J-7, <10'	EA	2.000
	0425- 2- 72	MANHOLES, J-7, >10'	EA	1.000
	0425- 2- 91	MANHOLES, J-8, <10'	EA	4.000
	0425- 10-	YARD DRAIN	EA	17.000
	0425- 10- 12	YARD DRAIN, 12" DECORATIVE, PROJECT 437300-4-52-01	EA	4.000
	0425- 11-	MODIFY EXISTING DRAINAGE STRUCTURE	EA	3.000
	0430-175-112	PIPE CULVERT,OPTIONAL MATERIAL,ROUND, 12"S/CD	LF	201.000
	0430-175-115	PIPE CULVERT,OPTIONAL MATERIAL,ROUND, 15"S/CD	LF	1,531.000
	0430-175-118	PIPE CULVERT,OPTIONAL MATERIAL,ROUND, 18"S/CD	LF	15,094.000
	0430-175-124	PIPE CULVERT,OPTIONAL MATERIAL,ROUND, 24"S/CD	LF	7,046.000
	0430-175-130	PIPE CULVERT, OPT MATERIAL, ROUND, 30"S/CD	LF	2,547.000
	0430-175-136	PIPE CULVERT, OPT MATERIAL, ROUND, 36"S/CD	LF	2,841.000
	0430-175-142	PIPE CULVERT, OPT MATERIAL, ROUND, 42"S/CD	LF	227.000
	0430-175-148	PIPE CULVERT, OPT MATERIAL, ROUND, 48"S/CD	LF	260.000
	0430-175-154	PIPE CULVERT, OPT MATERIAL, ROUND, 54"S/CD	LF	95.000
	0430-175-160	PIPE CULVERT, OPT MATERIAL, ROUND, 60"S/CD	LF	288.000
	0430-175-218	PIPE CULVERT,OPTIONAL MATERIAL,OTHER-ELIP/ARCH, 18"S/CD	LF	612.000
	0430-175-224	PIPE CULVERT,OPTIONAL MATERIAL,OTHER SHAPE-ELIP/ARCH, 24"S/CD	LF	1,416.000
	0430-175-230	PIPE CULVERT, OPT MATERIAL, OTHER SHAPE - ELIP/ARCH, 30"S/CD	LF	321.000
	0430-830-	PIPE FILLING AND PLUGGING- PLACE OUT OF SERVICE	CY	44.000
	0430-982-123	MITERED END SECTION, OPTIONAL ROUND, 15" CD	EA	6.000
	0430-982-125	MITERED END SECTION, OPTIONAL ROUND, 18" CD	EA	48.000
	0430-982-129	MITERED END SECTION, OPTIONAL ROUND, 24" CD	EA	15.000
	0430-982-133	MITERED END SECTION, OPTIONAL ROUND, 30" CD	EA	5.000

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	0430-982-138	MITERED END SECTION, OPTIONAL ROUND, 36" CD	EA	12.000
	0430-982-140	MITERED END SECTION, OPTIONAL ROUND, 42" CD	EA	2.000
	0430-982-625	MITERED END SECTION, OPTIONAL - ELLIPTICAL / ARCH, 18" CD	EA	4.000
	0430-982-629	MITERED END SECTION, OPTIONAL - ELLIPTICAL / ARCH, 24" CD	EA	4.000
	0436- 1- 1	TRENCH DRAIN, STANDARD	LF	123.000
	0436- 1- 10	TRENCH DRAIN, DECORATIVE GRATE, PROJECT 437300-4-52-01	LF	75.000
	0515- 1- 2	PIPE HANDRAIL - GUIDERAIL, ALUMINUM	LF	18.000
	0515- 2-311	PEDESTRIAN/ BICYCLE RAILING, ALUMINUM ONLY,42" TYPE 1	LF	1,276.000
	0519- 78-	BOLLARDS	EA	67.000
	0520- 1- 7	CONCRETE CURB & GUTTER, TYPE E	LF	179.000
	0520- 1- 10	CONCRETE CURB & GUTTER, TYPE F	LF	27,829.000
	0520- 2- 4	CONCRETE CURB, TYPE D	LF	5,754.000
	0520- 3-	VALLEY GUTTER- CONCRETE	LF	215.000
	0520- 5- 12	TRAFFIC SEPARATOR CONCRETE-TYPE I, 6' WIDE	LF	117.000
	0520- 6-	SHOULDER GUTTER- CONCRETE	LF	8,257.000
	0522- 1-	CONCRETE SIDEWALK AND DRIVEWAYS, 4" THICK	SY	10,460.000
	0522- 2-	CONCRETE SIDEWALK AND DRIVEWAYS, 6" THICK	SY	1,112.000
	0524- 1- 19	CONCRETE DITCH PAVT, 3", REINFORCED	SY	177.000
	0524- 2- 49	CONCRETE SLOPE PAVEMENT, 6", REINFORCED	SY	35.000
	0527- 2-	DETECTABLE WARNINGS	SF	936.000
	0530- 3- 4	RIPRAP, RUBBLE, F&I, DITCH LINING	TN	50.500
	0530- 74-	BEDDING STONE	TN	8,436.700
	0536- 1- 1	GUARDRAIL -ROADWAY, GENERAL TL-3	LF	9,550.000
	0536- 1- 3	GUARDRAIL- ROADWAY, DOUBLE FACE	LF	3,988.000
	0536- 1- 21	GUARDRAIL, ROADWAY, SUPERRAIL, PROJECT 437300-4-52-01	LF	31,300.000
	0536- 5- 1	RUB RAIL FOR GUARDRAIL, SINGLE SIDED RUB RAIL	LF	3,988.000
	0536- 7- 2	SPECIAL GUARDRAIL POST- SPECIAL STEEL POST FOR CONCRETE STRUCTURE MOUNT	EA	12.000
	0536- 85- 20	GUARDRAIL END TREATMENT- TRAILING ANCHORAGE	EA	2.000
	0536- 85- 24	GUARDRAIL END TREATMENT- PARALLEL APPROACH TERMINAL	EA	35.000
	0536- 85- 26	GUARDRAIL END TREATMENT- TYPE CRT	EA	1.000
	0536- 85- 27	GUARDRAIL END TREATMENT- DOUBLE FACE APPROACH TERMINAL	EA	14.000
	0542- 70-	BUMPER GUARDS, CONCRETE	EA	305.000
	0550- 10-110	FENCING, TYPE A, 0.0-5.0', STANDARD	LF	3,848.000
	0550- 10-222	FENCING, TYPE B, 5.1-6.0, W/ VINYL COATING	LF	2,264.000
	0550- 10-242	FENCING, TYPE B, 7.1-8.0', VINYL COATING	LF	5,873.000
	0550- 60-125	FENCE GATE, TYPE A, DOUBLE, 20.1-24.0' OPENING	EA	1.000
	0550- 60-211	FENCE GATE, TYPE B, SINGLE, 0- 6.0' OPENING	EA	25.000
	0550- 60-215	FENCE GATE, TYPE B, SINGLE, 20.1-24.0' OPENING	EA	1.000
	0550- 60-222	FENCE GATE, TYPE B, DOUBLE, 6.1-12.0' OPENING	EA	2.000
	0550- 60-232	FENCE GATE, TYPE B, SLIDING/CANTILEVER, 6.1-12' OPENING	EA	20.000
	0550- 60-233	FENCE GATE, TYPE B, SLIDING/CANTILEVER, 12.1-18' OPENING	EA	1.000
	0550- 60-235	FENCE GATE, TYPE B, SLIDING/CANTILEVER, 20.1-24' OPENING	EA	1.000
	0550- 60-236	FENCE GATE, TYPE B, SLIDING/CANTILEVER, 24.1-30' OPENING	EA	2.000
	0550- 60-237	FENCE GATE, TYPE B, SLIDING/CANTILEVER, GREATER THAN 30' OPENING	EA	1.000

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ALT	Item	Description	Unit	Quantity
	0570- 1- 1	PERFORMANCE TURF	SY	41,862.000
	0570- 1- 2	PERFORMANCE TURF, SOD	SY	363,503.000
	0751- 11- 19	ARCHITECTURAL- SHIPPING CONTAINER, 40', PROJECT 437300-4-52-01	EA	60.000
	0751- 11- 20	ARCHITECTURAL- SHIPPING CONTAINER, 45', PROJECT 437300-4-52-01	EA	60.000
	0751- 40- 3	ARCHITECTURAL/DECORATIVE WALL, F&I, FACADE PANEL, GLASS, PROJECT 437300-4 (43730045201)	AS	50.000
	0751- 40- 4	ARCHITECTURAL/DECORATIVE WALL, F&I, FACADE PANEL, MASONARY, PROJECT 437300-4 (43730045201)	AS	50.000
	0751- 40- 6	ARCHITECTURAL/DECORATIVE WALL, F&I, FACADE PANEL, FLAT METAL, PROJECT 437300-4 (43730045201)	AS	50.000
	0999- 16-	PARTNERING, DO NOT BID (43730045201)	LS	1.000
	0999- 20- 1	DISPUTES REVIEW BOARD, MEETING- DO NOT BID	DA	12.000
	0999- 20- 2	DISPUTES REVIEW BOARD, HEARING- DO NOT BID	EA	2.000
	0999- 25-	INITIAL CONTINGENCY AMOUNT, DO NOT BID (43730045201)	LS	1.000
Section 0002 Signing				
	0700- 1- 11	SINGLE POST SIGN, F&I GROUND MOUNT, UP TO 12 SF	AS	146.000
	0700- 1- 12	SINGLE POST SIGN, F&I GROUND MOUNT, 12-20 SF	AS	92.000
	0700- 1- 13	SINGLE POST SIGN, F&I GROUND MOUNT, 21-30 SF	AS	2.000
	0700- 1- 60	SINGLE POST SIGN, REMOVE	AS	6.000
	0700- 1- 74	SINGLE POST SIGN, F&I CUSTOM, 31+ SF	AS	1.000
	0700- 2- 12	MULTI- POST SIGN, F&I GROUND MOUNT, 12-20 SF	AS	25.000
	0700- 2- 15	MULTI- POST SIGN, F&I GROUND MOUNT, 51-100 SF	AS	1.000
	0700- 3-101	SIGN PANEL, FURNISH & INSTALL GROUND MOUNT, UP TO 12 SF	EA	116.000
	0700- 13- 12	RETROREFLECTIVE SIGN STRIP- FURNISH AND INSTALL, 2'	EA	2.000
	0700- 25- 1	SIGNS - WAY-FINDING, GROUND MOUNT, 12-20 ft2, F&I, PROJECT 437300-4-52-01	AS	6.000
	0700- 25- 2	SIGNS - WAY-FINDING, GROUND MOUNT, 21-30 ft2, F&I, PROJECT 437300-4-52-01	AS	13.000
	0705- 10- 4	OBJECT MARKER, TYPE 4	EA	7.000
	0710- 90-	PAINTED PAVEMENT MARKINGS, FINAL SURFACE (43730045201)	LS	1.000
	0711- 11-123	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12" FOR CROSSWALK AND ROUNDABOUT	LF	1,176.000
	0711- 11-124	THERMOPLASTIC, STANDARD, WHITE, SOLID, 18" FOR DIAGONALS AND CHEVRONS	LF	81.000
	0711- 11-125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24" FOR STOP LINE AND CROSSWALK	LF	557.000
	0711- 11-141	THERMOPLASTIC, STANDARD, WHITE, 2-4 DOTTED GUIDELINE/ 6-10 GAP EXTENSION, 6"	GM	0.209
	0711- 11-160	THERMOPLASTIC, STANDARD, WHITE, MESSAGE OR SYMBOL	EA	27.000
	0711- 11-170	THERMOPLASTIC, STANDARD, WHITE, ARROW	EA	2.000
	0711- 11-180	THERMOPLASTIC, STANDARD, WHITE, YIELD LINE	LF	139.000
	0711- 11-224	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 18" FOR DIAGONAL OR CHEVRON	LF	40.000
	0711- 11-421	THERMOPLASTIC, STANDARD, BLUE, SOLID,6"	LF	286.000
	0711- 16-101	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SOLID, 6"	GM	7.445
	0711- 16-201	THERMOPLASTIC, STANDARD-OTHER SURFACES, YELLOW, SOLID, 6"	GM	4.262

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Section 0003 Lighting				
	0630- 2- 11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF	10,050.000
	0635- 2- 11	PULL & SPLICE BOX, F&I, 13" x 24" COVER SIZE	EA	91.000
	0639- 1-122	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR	AS	2.000
	0641- 2- 12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-II SERVICE POLE	EA	2.000
	0715- 1- 12	LIGHTING CONDUCTORS, F&I, INSULATED, NO.8 - 6	LF	40,309.000
	0715- 1- 13	LIGHTING CONDUCTORS, F&I, INSULATED, NO 4 TO NO 2	LF	176.000
	0715- 4- 13	LIGHT POLE COMPLETE, FURNISH & INSTALL STANDARD POLE STANDARD FOUNDATION, 40' MOUNTING HEIGHT	EA	57.000
	0715- 7- 11	LOAD CENTER, F&I, SECONDARY VOLTAGE	EA	2.000
	0715-500- 1	POLE CABLE DISTRIBUTION SYSTEM, FURNISH AND INSTALL, CONVENTIONAL	EA	57.000
Section 0004 Signalization				
	0630- 2- 11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF	1,677.000
	0632- 7- 1	SIGNAL CABLE- NEW OR RECONSTRUCTED INTERSECTION, FURNISH & INSTALL	PI	6.000
	0635- 2- 11	PULL & SPLICE BOX, F&I, 13" x 24" COVER SIZE	EA	57.000
	0635- 2- 12	PULL & SPLICE BOX, F&I, 24" X 36" COVER SIZE	EA	6.000
	0639- 1-121	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER FURNISHED BY POWER COMPANY	AS	2.000
	0639- 2- 1	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	LF	495.000
	0639- 3- 11	ELECTRICAL SERVICE DISCONNECT, F&I, POLE MOUNT	EA	2.000
	0639- 3- 12	ELECTRICAL SERVICE DISCONNECT, F&I, CABINET	EA	9.000
	0641- 2- 12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-II SERVICE POLE	EA	2.000
	0646- 1- 11	ALUMINUM SIGNALS POLE, PEDESTAL	EA	24.000
	0649- 21- 1	STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL, SINGLE ARM 30'	EA	1.000
	0649- 21- 3	STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL, SINGLE ARM 40'	EA	3.000
	0649- 21- 6	STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL, SINGLE ARM 50'	EA	5.000
	0649- 21- 10	STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL, SINGLE ARM 60'	EA	1.000
	0649- 21- 15	STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL, SINGLE ARM 70'	EA	1.000
	0649- 21- 16	STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL, DOUBLE ARM 70'-30'	EA	1.000
	0650- 1- 14	VEHICULAR TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 3 SECTION, 1 WAY	AS	38.000
	0650- 1- 16	VEHICULAR TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 4 SECTION, 1 WAY	AS	8.000
	0653- 1- 11	PEDESTRIAN SIGNAL, FURNISH & INSTALL LED COUNTDOWN, 1 WAY	AS	24.000
	0660- 4- 11	VEHICLE DETECTION SYSTEM- VIDEO, FURNISH & INSTALL CABINET EQUIPMENT	EA	13.000
	0660- 4- 12	VEHICLE DETECTION SYSTEM- VIDEO, FURNISH & INSTALL ABOVE GROUND EQUIPMENT	EA	13.000
	0665- 1- 11	PEDESTRIAN DETECTOR, FURNISH & INSTALL, STANDARD	EA	24.000
	0670- 5-110	TRAFFIC CONTROLLER ASSEMBLY, F&I, NEMA	AS	3.000

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ALT	Item	Description	Unit	Quantity
	0670- 5-140	TRAFFIC CONTROLLER ASSEMBLY, FURNISH & INSTALL MODEL 207C	AS	3.000
	0676- 1-115	TRAFFIC SIGNAL CONTROLLER CABINET, FURNISH & INSTALL W/OUT CONTROLLER, NEMA SIZE 5, 30" W X 48" H X 16" D	EA	3.000
	0700- 5- 21	INTERNALLY ILLUMINATED SIGN, FURNISH & INSTALL OVERHEAD MOUNT, UP TO 12 SF	EA	4.000
	0700- 5- 22	INTERNALLY ILLUMINATED SIGN, FURNISH & INSTALL, OVERHEAD MOUNT, 12-18 SF	EA	9.000
Section 0005 Landscape / Peripheral				
	0400- 4- 11	CONC CLASS IV, RETAINING WALLS	CY	96.000
	0415- 1- 3	REINFORCING STEEL- RETAINING WALL	LB	9,205.000
	0415- 1- 6	REINFORCING STEEL- MISCELLANEOUS	LB	11,145.000
	0515- 2-456	PEDESTRIAN / BICYCLE RAILING, STEEL CABLE SYSTEM, 42", PROJECT 437300-4-52-01	LF	153.000
	0519- 78-	BOLLARDS	EA	26.000
	0522- 1-	CONCRETE SIDEWALK AND DRIVEWAYS, 4" THICK	SY	124.000
	0522- 2-	CONCRETE SIDEWALK AND DRIVEWAYS, 6" THICK	SY	2,527.000
	0531- 1- 7	IMPERMEABLE POND LINER, PROJECT NUMBER 437300-4-52-01	SY	200.000
	0590- 70-	IRRIGATION SYSTEM (43730045201)	LS	1.000
	0630- 2- 11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF	1,675.000
	0635- 2- 11	PULL & SPLICE BOX, F&I, 13" x 24" COVER SIZE	EA	23.000
	0715- 1- 11	LIGHTING CONDUCTORS, F&I, INSULATED, NO. 10 OR <	LF	1,761.000
	0715- 1- 12	LIGHTING CONDUCTORS, F&I, INSULATED, NO.8 - 6	LF	7,414.000
	0715- 7- 11	LOAD CENTER, F&I, SECONDARY VOLTAGE	EA	1.000
	0715- 52- 6	LIGHTING, SPECIAL LIGHTING, PALM RING LIGHTING, PROJECT 437300-4-52-01	LS	1.000
	0715-500- 1	POLE CABLE DISTRIBUTION SYSTEM, FURNISH AND INSTALL, CONVENTIONAL	EA	6.000
	0715-516-120	LIGHT POLE COMPLETE-SPECIAL DESIGN, F&I, POLE TOP MOUNT, ALUMINUM, 20'	EA	6.000
	0751- 11- 18	ARCHITECTURAL- DECK, PROJECT 437300-4-52-01	LS	1.000
	0751- 11- 22	ARCHITECTURAL- SPECIAL, F&I, SCUPPER OUTFALL, PROJECT 437300-4-52-01	EA	3.000
	0751- 11- 23	ARCHITECTURAL- SPECIAL, F&I, WATER FEATURE, RECIRCULATING, PROJECT 437300-4-52-01	EA	1.000
	0751- 33-100	ARCHITECTURAL, SPECIAL, TABLE WITH SEATING - PROJECT 437300-4-52-01	EA	7.000
	0751- 36- 13	BICYCLE RACK, FURNISH & INSTALL, 7-10 BICYCLES	EA	6.000
	0751- 37-	TRASH RECEPTACLE	EA	4.000
	0751- 37- 1	TRASH RECEPTACLE- ASH URN	EA	1.000
	0751- 38- 14	BENCH, F&I, STEEL	EA	2.000
Section 0006 Utilities				
	0630- 2- 11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF	45,656.000
	0630- 2- 12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	1,900.000
	0633- 3- 11	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE ENCLOSURE	EA	4.000
	0635- 2- 11	PULL & SPLICE BOX, F&I, 13" x 24" COVER SIZE	EA	68.000
	0635- 2- 12	PULL & SPLICE BOX, F&I, 24" X 36" COVER SIZE	EA	5.000
	0639- 1-121	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER FURNISHED BY POWER COMPANY	AS	1.000

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ALT	Item	Description	Unit	Quantity
	0639- 2- 1	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	LF	93,248.000
	0639- 3- 11	ELECTRICAL SERVICE DISCONNECT, F&I, POLE MOUNT	EA	4.000
	0639- 6- 1	ELECTRICAL POWER SERVICE- TRANSFORMER FURNISH & INSTALL	EA	23.000
	0639- 7-110	ELECTRICAL POWER SERVICE, F&I, MEDIUM VOLTAGE PULL BOX (4'X4'), PROJECT 437300-4-52-01	EA	15.000
	0639- 7-111	ELECTRICAL POWER SERVICE, F&I, MEDIUM VOLTAGE PULL BOX (5' X 9'), PROJECT 437300-4-52-01	EA	8.000
	0639- 7-112	ELECTRICAL POWER SERVICE, F&I, PAD-MOUNT SWITCHGEAR VACUUM FAULT INTERRUPTER, PROJECT 437300-4-52-01	EA	3.000
	0639- 8- 15	ELECTRICAL POWER SERVICE- CONTRIBUTION IN AID OF CONSTRUCTION (CIAC), PROJECT 437300-4-52-01 (DO NOT BID) (43730045201)	LS	1.000
	0639- 12-100	VEHICLE CHARGING STATION, LEVEL 2, PROJECT 437300-4-52-01	AS	5.000
	0639- 12-101	VEHICLE CHARGING STATION, LEVEL 3, PROJECT 437300-4-52-01	AS	2.000
	0641- 2- 11	PRESTRESSED CONCRETE POLE, F&I, TYPE P-II PEDESTAL	EA	3.000
	0715- 1- 11	LIGHTING CONDUCTORS, F&I, INSULATED, NO. 10 OR <	LF	921.000
	0715- 4- 11	LIGHT POLE COMPLETE, FURNISH & INSTALL STANDARD POLE STANDARD FOUNDATION, 30' MOUNTING HEIGHT	EA	41.000
	0715-511-120	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I, SINGLE ARM SHOULDER MOUNT, ALUMINUM, 20'	EA	10.000
	1050- 31-202	UTILITY PIPE- POLY VINYL CHLORIDE, FURNISH & INSTALL, WATER/SEWER, 2"	LF	3,951.000
	1050- 31-203	UTILITY PIPE- POLY VINYL CHLORIDE, FURNISH & INSTALL, WATER/SEWER, 3"	LF	323.000
	1050- 31-204	UTILITY PIPE- POLY VINYL CHLORIDE, FURNISH & INSTALL, WATER/SEWER, 4"	LF	3,967.000
	1050- 31-206	UTILITY PIPE- POLY VINYL CHLORIDE, FURNISH & INSTALL, WATER/SEWER, 6"	LF	6,592.000
	1050- 31-208	UTILITY PIPE- POLY VINYL CHLORIDE, FURNISH & INSTALL, WATER/SEWER, 8"	LF	8,191.000
	1050- 31-210	UTILITY PIPE- POLY VINYL CHLORIDE, FURNISH & INSTALL, WATER/SEWER, 10"	LF	5,327.000
	1050- 31-211	UTILITY PIPE- POLY VINYL CHLORIDE, FURNISH & INSTALL, WATER/SEWER, 1"	LF	146.000
	1050- 31-212	UTILITY PIPE- POLY VINYL CHLORIDE, FURNISH & INSTALL, WATER/SEWER, 12"	LF	2,668.000
	1050- 42-203	UTILITY PIPE- HIGH DENSITY POLYETHYLENE, FURNISH & INSTALL, WATER/SEWER, 3"	LF	482.000
	1050- 42-204	UTILITY PIPE- HIGH DENSITY POLYETHYLENE, FURNISH & INSTALL, WATER/SEWER, 4"	LF	2,200.000
	1050- 42-206	UTILITY PIPE- HIGH DENSITY POLYETHYLENE, FURNISH & INSTALL, WATER/SEWER, 6"	LF	1,392.000
	1050- 42-208	UTILITY PIPE- HIGH DENSITY POLYETHYLENE, FURNISH & INSTALL, WATER/SEWER, 8"	LF	3,282.000
	1050- 42-210	UTILITY PIPE- HIGH DENSITY POLYETHYLENE, FURNISH & INSTALL, WATER/SEWER, 10"	LF	148.000
	1050- 42-212	UTILITY PIPE- HIGH DENSITY POLYETHYLENE, FURNISH & INSTALL, WATER/SEWER, 12"	LF	140.000
	1050- 61-112	UTILITY PIPE- STEEL, FURNISH & INSTALL, CASING, 12"	LF	120.000
	1050- 61-116	UTILITY PIPE- STEEL, FURNISH & INSTALL, CASING, 16"	LF	200.000
	1050- 61-124	UTILITY PIPE- STEEL, FURNISH & INSTALL, CASING, 24"	LF	60.000

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ALT	Item	Description	Unit	Quantity
	1055- 31-108	UTILITY FITTINGS FOR PVC PIPE, FURNISH AND INSTALL, ELBOW, 8"	EA	16.000
	1055- 31-110	UTILITY FITTINGS FOR PVC PIPE, FURNISH AND INSTALL, ELBOW, 10"	EA	13.000
	1055- 31-112	UTILITY FITTINGS FOR PVC PIPE, FURNISH AND INSTALL, ELBOW, 12"	EA	9.000
	1055- 31-208	UTILITY FITTINGS FOR PVC PIPE, FURNISH AND INSTALL, TEE, 8"	EA	7.000
	1055- 31-210	UTILITY FITTINGS FOR PVC PIPE, FURNISH AND INSTALL, TEE, 10"	EA	6.000
	1055- 31-212	UTILITY FITTINGS FOR PVC PIPE, FURNISH AND INSTALL, TEE, 12"	EA	16.000
	1055- 31-308	UTILITY FITTINGS FOR PVC PIPE, FURNISH AND INSTALL, REDUCER, 8"	EA	6.000
	1055- 31-310	UTILITY FITTINGS FOR PVC PIPE, FURNISH AND INSTALL, REDUCER, 10"	EA	3.000
	1055- 31-312	UTILITY FITTINGS FOR PVC PIPE, FURNISH AND INSTALL, REDUCER, 12"	EA	3.000
	1055- 31-610	UTILITY FITTINGS FOR PVC PIPE, FURNISH AND INSTALL, 10" WYE	EA	1.000
	1055- 31-708	UTILITY FITTINGS FOR PVC PIPE, FURNISH AND INSTALL, CLEANOUT 8"	EA	40.000
	1060- 11-211	UTILITY STRUCTURE, BELOW GROUND, F&I, WATER/SEWER, 0 - 80 FT3, 0 - 6'	EA	32.000
	1060- 11-212	UTILITY STRUCTURE, BELOW GROUND, F&I, WATER/SEWER, 0 - 80 FT3, 6.1 - 12'	EA	20.000
	1060- 11-213	UTILITY STRUCTURE, BELOW GROUND, F&I, WATER/SEWER, 0 - 80 FT3, >12'	EA	4.000
	1080- 21-104	UTILITY FIXTURE, VALVE/METER BOX, FURNISH & INSTALL, 4"	EA	4.000
	1080- 21-106	UTILITY FIXTURE, VALVE/METER BOX, FURNISH & INSTALL, 6"	EA	4.000
	1080- 21-108	UTILITY FIXTURE, VALVE/METER BOX, FURNISH & INSTALL, 8"	EA	2.000
	1080- 22-106	UTILITY FIXTURE- BACKFLOW ASSEMBLY, FURNISH & INSTALL,6"	EA	1.000
	1080- 22-112	UTILITY FIXTURE- BACKFLOW ASSEMBLY, FURNISH & INSTALL,12"	EA	1.000
	1080- 24-100	UTILITY FIXTURE, VALVE ASSEMBLY, FURNISH AND INSTALL, 1"	EA	10.000
	1080- 24-102	UTILITY FIXTURE, VALVE ASSEMBLY, FURNISH AND INSTALL, 2"	EA	10.000
	1080- 24-103	UTILITY FIXTURE, VALVE ASSEMBLY, FURNISH AND INSTALL, 3"	EA	5.000
	1080- 24-104	UTILITY FIXTURE, VALVE ASSEMBLY, FURNISH AND INSTALL, 4"	EA	9.000
	1080- 24-106	UTILITY FIXTURE, VALVE ASSEMBLY, FURNISH AND INSTALL, 6"	EA	39.000
	1080- 24-108	UTILITY FIXTURE, VALVE ASSEMBLY, FURNISH AND INSTALL, 8"	EA	8.000
	1080- 24-110	UTILITY FIXTURE, VALVE ASSEMBLY, FURNISH AND INSTALL, 10"	EA	7.000
	1080- 24-112	UTILITY FIXTURE, VALVE ASSEMBLY, FURNISH AND INSTALL, 12"	EA	3.000
	1080- 26-102	UTILITY FIXTURE, VAC/AIR ASSEMBLY, FURNISH & INSTALL 2"	EA	1.000
	1080- 26-104	UTILITY FIXTURE, VAC/AIR ASSEMBLY, FURNISH & INSTALL 4"	EA	2.000
	1080- 26-106	UTILITY FIXTURE, VAC/AIR ASSEMBLY, FURNISH & INSTALL 6"	EA	3.000
	1080- 26-108	UTILITY FIXTURE, VAC/AIR ASSEMBLY, FURNISH & INSTALL 8"	EA	1.000
	1080- 26-110	UTILITY FIXTURE, VAC/AIR ASSEMBLY, FURNISH & INSTALL 10"	EA	3.000
	1080- 26-112	UTILITY FIXTURE, VAC/AIR ASSEMBLY, FURNISH AND INSTALL12"	EA	2.000
	1080- 32-101	UTILITY FIXTURE- SAMPLE POINT, FURNISH & INSTALL, 1"	EA	17.000
	1501- 1-	LIFT STATION, SANITARY SEWER	EA	2.000
	1644-113- 08	FIRE HYDRANT, F&I, STANDARD, 2 HOSE, 1PUMPER, 6"	EA	16.000
	1080- 22-104	UTILITY FIXTURE- BACKFLOW ASSEMBLY, FURNISH & INSTALL,4"	EA	1.000

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ALT	Item	Description	Unit	Quantity
Section 0007 Architectural				
	0750- 1-101	ARCHITECTURAL- BUILDING, SUNTRAX PROJECT 437300-4-52-01, BUILDING 1 (43730045201)	LS	1.000
	0750- 1-102	ARCHITECTURAL- BUILDING, SUNTRAX PROJECT 437300-4-52-01, BUILDING 2 (43730045201)	LS	1.000
	0750- 1-103	ARCHITECTURAL- BUILDING, SUNTRAX PROJECT 437300-4-52-01, BUILDING 3 (43730045201)	LS	1.000
	0750- 1-104	ARCHITECTURAL- BUILDING, SUNTRAX PROJECT 437300-4-52-01, BUILDING 4 (43730045201)	LS	1.000
	0750- 1-105	ARCHITECTURAL- BUILDING, SUNTRAX PROJECT 437300-4-52-01, BUILDING 5 (43730045201)	LS	1.000
	0750- 1-107	ARCHITECTURAL- BUILDING, SUNTRAX PROJECT 437300-4-52-01, BUILDING 7 (43730045201)	LS	1.000
	0750- 1-108	ARCHITECTURAL- BUILDING, SUNTRAX PROJECT 437300-4-52-01, BUILDING 8 (43730045201)	LS	1.000
	0750- 1-109	ARCHITECTURAL- BUILDING, SUNTRAX PROJECT 437300-4-52-01, BUILDING 9 (43730045201)	LS	1.000
	0750- 1-110	ARCHITECTURAL- BUILDING, SUNTRAX PROJECT 437300-4-52-01, BUILDING 10 (43730045201)	LS	1.000
	0750- 1-111	ARCHITECTURAL- BUILDING, SUNTRAX PROJECT 437300-4-52-01, BUILDING 11 (43730045201)	LS	1.000
	0750- 1-112	ARCHITECTURAL- BUILDING, SUNTRAX PROJECT 437300-4-52-01, BUILDING 12 (43730045201)	LS	1.000
	0750- 1-113	ARCHITECTURAL- BUILDING, SUNTRAX PROJECT 437300-4-52-01, BUILDING 13 (43730045201)	LS	1.000
	0455- 34- 3	PRESTRESSED CONCRETE PILING, 18" SQ	LF	1,170.000
	0455-143- 3	TEST PILES-PRESTRESSED CONCRETE,18" SQ	LF	210.000
	0750- 1- 18	ARCHITECTURAL, BUILDING, NEW, UNCOVERED STORAGE	LS	1.000
Section 0008 Intelligent Transportation System				
	0639- 1-122	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR	AS	1.000
	0508- 2- 1	MOVABLE BRIDGE GATE, F&I	AS	36.000
	0508- 2- 5	MOVABLE BRIDGE GATE, ADJUST/MODIFY/REHAB	AS	5.000
	0630- 2- 11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF	25,054.000
	0630- 2- 12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	4,432.000
	0633- 1-121	FIBER OPTIC CABLE, F&I, UNDERGROUND,2-12 FIBERS	LF	28,201.000
	0633- 1-122	FIBER OPTIC CABLE, F&I, UNDERGROUND,13-48 FIBERS	LF	7,245.000
	0633- 1-123	FIBER OPTIC CABLE, F&I, UNDERGROUND,49-96 FIBERS	LF	793.000
	0633- 1-124	FIBER OPTIC CABLE, F&I, UNDERGROUND, 97 - 144 FIBERS	LF	34,191.000
	0633- 1-620	FIBER OPTIC CABLE, REMOVE, UNDERGROUND	LF	9,149.000
	0633- 2- 31	FIBER OPTIC CONNECTION, INSTALL, SPLICE	EA	816.000
	0633- 2- 32	FIBER OPTIC CONNECTION, INSTALL, TERMINATION	EA	1,728.000
	0633- 3- 11	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE ENCLOSURE	EA	34.000
	0633- 3- 12	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE TRAY	EA	59.000
	0633- 3- 13	FIBER OPTIC CONNECTION HARDWARE, F&I, PRETERMINATED CONNECTOR ASSEMBLY	EA	1,984.000
	0633- 3- 15	FIBER OPTIC CONNECTION HARDWARE, F&I, PRETERMINATED PATCH PANEL	EA	61.000
	0633- 8- 1	MULTI-CONDUCTOR COMMUNICATION CABLE, FURNISH & INSTALL	LF	3,250.000

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ALT	Item	Description	Unit	Quantity
	0635- 2- 11	PULL & SPLICE BOX, F&I, 13" x 24" COVER SIZE	EA	129.000
	0635- 2- 12	PULL & SPLICE BOX, F&I, 24" X 36" COVER SIZE	EA	127.000
	0635- 2- 30	PULL & SPLICE BOX, INSTALL	EA	4.000
	0635- 2-103	PULL & SPLICE BOX, F&I, HS-20 REINFORCED CONCRETE FIBER OPTIC MANHOLE, PROJECT 437300-4-52-01	EA	62.000
	0639- 2- 1	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	LF	19,447.000
	0639- 3- 11	ELECTRICAL SERVICE DISCONNECT, F&I, POLE MOUNT	EA	60.000
	0639- 6- 1	ELECTRICAL POWER SERVICE- TRANSFORMER FURNISH & INSTALL	EA	53.000
	0641- 2- 12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-II SERVICE POLE	EA	40.000
	0641- 3-175	CONCRETE CCTV POLE, FURNISH & INSTALL WITH LOWERING DEVICE, 75'	EA	32.000
	0646- 2-120	ALUMINUM POLE- INDEX 17900/695-001, FURNISH & INSTALL, 20'	EA	41.000
	0676- 2-122	ITS CABINET, FURNISH & INSTALL, POLE MOUNT WITH SUNSHIELD, 336S, 24" W X 46" H X 22" D	EA	31.000
	0676- 3- 10	SMALL EQUIPMENT ENCLOSURE, FURNISH AND INSTALL, LESS THAN 10"W X 13"H X 11" D	EA	21.000
	0682- 1-133	ITS CCTV CAMERA, F&I, DOME ENCLOSURE - NON-PRESSURIZED, IP, HIGH DEFINITION	EA	65.000
	0684- 1- 1	MANAGED FIELD ETHERNET SWITCH, FURNISH & INSTALL	EA	59.000
	0684- 6- 30	WIRELESS COMMUNICATION DEVICE, INSTALL	EA	41.000
	0684- 90- 11	NETWORK DEVICE, MASTER HUB ETHERNET SWITCH, LAYER 3, PROJECT 437300-4-52-01	EA	2.000
	0685- 1- 11	UNINTERRUPTIBLE POWER SUPPLY, FURNISH AND INSTALL, LINE INTERACTIVE	EA	31.000
	0715- 7- 11	LOAD CENTER, F&I, SECONDARY VOLTAGE	EA	29.000