

Florida Department of Transportation
Bid Solicitation Notice and Approximate Quantities

Letting: 08240409 Call Order: 002 Proposal: E8U70 District:08

Counties: DIST/ST-WIDE

Road Name: ITS REPLACEMENTS FOR BEACHLINE EAST (SR528)

Limits: 70470000

Project(s): 44287615201(*) Federal Aid No: N/A

Total Roadway Length:	16.921 Miles	Contract Days:	661
Total Bridge Length:	0.000 Miles	Letting Date:	04/09/24
Total Proposal Length:	16.921 Miles	Contract Execution Days:	10
		Special Start Date:	N/A
		Aquis/Flexible Start Time:	120

Proposal Budget Estimate: \$21,406,352.00

Please read the full advertisement

Description:

Work consists of providing all labor, materials, equipment and incidentals necessary for the replacement of the Intelligent Transportation System (ITS) on SR 528 from SR 520 (Mile Post 30.8) to St. Johns River (Mile Post 36.0), in Orange County, and from St. Johns River (Mile Post 36.0) to Industry Rd. (Mile Post 45.8), in Brevard County. The replacement will include the installation of new Fiber Optic Cable (FOC) infrastructure for both ITS and tolling, Closed-Circuit Television (CCTV) cameras, Microwave Vehicle Detections System (MVDS) detectors, Bluetooth detectors, Road Weather Information System (RWIS) devices, Dynamic Message Signs (DMS) and power backup generators. The project will also include lighting and the extension of power service within the project limits. No Pre-Bid Conference. Contractor must be prequalified.

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ALT	Item	Description	Unit	Quantity
Section 0001 Roadway				
	0101- 1-	MOBILIZATION (44287615201)	LS	1.000
	0102- 1-	MAINTENANCE OF TRAFFIC (44287615201)	LS	1.000
	0102- 14-	TRAFFIC CONTROL OFFICER	HR	510.000
	0102- 60-	WORK ZONE SIGN	ED	33,144.000
	0102- 74- 1	CHANNELIZING DEVICE- TYPES I, II, DI, VP, DRUM, OR LCD	ED	5,382.000
	0102- 76-	ARROW BOARD / ADVANCE WARNING ARROW PANEL	ED	57.000
	0102- 99-	PORTABLE CHANGEABLE MESSAGE SIGN, TEMPORARY	ED	254.000
	0102-150- 1	PORTABLE REGULATORY, SIGN	ED	102.000
	0102-150- 2	RADAR SPEED DISPLAY UNIT	ED	102.000
	0104- 10- 3	SEDIMENT BARRIER	LF	45,418.000
	0107- 1-	LITTER REMOVAL	AC	251.980
	0107- 2-	MOWING	AC	251.980
	0110- 1- 1	CLEARING & GRUBBING (44287615201)	LS	1.000
	0110- 2- 2	SELECTIVE CLEARING AND GRUBBING, AREAS WITH TREES TO REMAIN	AC	1.250
	0110- 4- 10	REMOVAL OF EXISTING CONCRETE	SY	14.000
	0110- 21-	TREE PROTECTION BARRIER	LF	3,385.000
	0120- 1-	REGULAR EXCAVATION	CY	588.600
	0120- 6-	EMBANKMENT	CY	6,811.200
	0160- 4-	TYPE B STABILIZATION	SY	6,031.000
	0327- 70- 23	MILLING EXISTING ASPHALT PAVEMENT, 6" AVG DEPTH	SY	7.000
	0339- 1-	MISCELLANEOUS ASPHALT PAVEMENT	TN	0.400

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	0430-174-118	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 18"SD	LF	342.000
	0430-174-124	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 24"SD	LF	631.000
	0430-984-125	MITERED END SECTION, OPTIONAL ROUND, 18" SD	EA	8.000
	0430-984-129	MITERED END SECTION, OPTIONAL ROUND, 24" SD	EA	14.000
	0522- 2-	CONCRETE SIDEWALK AND DRIVEWAYS, 6" THICK	SY	197.000
	0524- 2- 4	CONCRETE SLOPE PAVEMENT, NON REINFORCED, 6"	SY	14.000
	0570- 1- 2	PERFORMANCE TURF, SOD	SY	14,192.000
	0639- 8-130	ELECTRICAL POWER SERVICE- CONTRIBUTION IN AID OF CONSTRUCTION (CIAC), FPL (DO NOT BID) (44287615201)	LS	1.000
	0639- 8-144	ELECTRICAL POWER SERVICE- CONTRIBUTION IN AID OF CONSTRUCTION (CIAC), OUC (DO NOT BID) (44287615201)	LS	1.000
	0999- 16-	PARTNERING, DO NOT BID (44287615201)	LS	1.000
	0999- 25-	INITIAL CONTINGENCY AMOUNT, DO NOT BID (44287615201)	LS	1.000
Section 0002 Signing				
	0700- 2-500	MULTI-COLUMN GROUND SIGN ASSEMBLY, RELOCATE	EA	1.000
	0700- 2-600	MULTI-COLUMN GROUND SIGN ASSEMBLY, REMOVE	EA	2.000
	0700- 8-600	FRONT ACCESS DYNAMIC MESSAGE SIGN, REMOVE	EA	1.000
	0700- 9-137	WALK-IN DYNAMIC MESSAGE SIGN, FURNISH & INSTALL- WITH UPS FULL COLOR, 201-300 SF	EA	3.000
	0700- 9-600	WALK-IN DYNAMIC MESSAGE SIGN, REMOVE	EA	1.000
	0700- 10-123	DMS SUPPORT STRUCTURE, CANTILEVER, 31-40 FT	EA	1.000
	0700- 10-124	DMS SUPPORT STRUCTURE, CANTILEVER, 41-50 FT	EA	2.000
	0700- 10-600	DMS SUPPORT STRUCTURE, REMOVE	EA	2.000
Section 0003 Lighting				
	0630- 2- 11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF	20,293.000
	0630- 2- 12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	8,812.000
	0630- 2- 14	CONDUIT, FURNISH & INSTALL, ABOVEGROUND	LF	130.000
	0635- 2- 11	PULL & SPLICE BOX, F&I, 13" x 24" COVER SIZE	EA	187.000
	0635- 3- 11	JUNCTION BOX, FURNISH & INSTALL, AERIAL	EA	4.000
	0639- 1-122	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR	AS	2.000
	0639- 3- 11	ELECTRICAL SERVICE DISCONNECT, F&I, POLE MOUNT	EA	2.000
	0641- 2- 12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-II SERVICE POLE	EA	1.000
	0715- 1- 11	LIGHTING CONDUCTORS, F&I, INSULATED, NO. 10 OR <	LF	330.000
	0715- 1- 12	LIGHTING CONDUCTORS, F&I, INSULATED, NO.8 - 6	LF	77,391.000
	0715- 1- 13	LIGHTING CONDUCTORS, F&I, INSULATED, NO 4 TO NO 2	LF	32,112.000
	0715- 1- 15	LIGHTING CONDUCTORS, F&I, NO.1/0 - 3/0 (0 to 000)	LF	197.000
	0715- 7- 11	LOAD CENTER, F&I, SECONDARY VOLTAGE	EA	2.000
	0715- 11-125	LUMINAIRE, F&I, UNDER DECK, WALL MOUNT	EA	8.000
	0715- 61-300	LIGHT POLE COMPLETE, F&I, STANDARD POLE STANDARD FOUNDATION, 40' MOUNTING HEIGHT, 0' ARM LENGTH	EA	148.000
	0715- 61-400	LIGHT POLE COMPLETE, F&I, STANDARD POLE STANDARD FOUNDATION, 45' MOUNTING HEIGHT, 0' ARM LENGTH	EA	3.000
	0715-500- 1	POLE CABLE DISTRIBUTION SYSTEM, FURNISH AND INSTALL, CONVENTIONAL	EA	151.000
	0715-500- 3	POLE CABLE DISTRIBUTION SYSTEM, WALL MOUNT	EA	6.000

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ALT	Item	Description	Unit	Quantity
Section 0004 Intelligent Transportation System				
	0611- 1- 1	ITSFM SUBSURFACE DOCUMENTATION- PROJECT LENGTH	MI	14.600
	0611- 2- 2	ITSFM LOCATION DOCUMENTATION- ITS SITE	EA	35.000
	0611- 2- 3	ITSFM LOCATION DOCUMENTATION- COMMUNICATIONS BUILDING	EA	2.000
	0630- 2- 11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF	56,250.000
	0630- 2- 12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	35,090.000
	0630- 2- 14	CONDUIT, FURNISH & INSTALL, ABOVEGROUND	LF	775.000
	0630- 2- 65	CONDUIT, REMOVE, BRIDGE MOUNT	LF	1,725.000
	0630- 2- 91	CONDUIT, INSTALL, OPEN TRENCH	LF	16,590.000
	0630- 2- 92	CONDUIT, INSTALL, DIRECTIONAL BORE	LF	2,410.000
	0633- 1-121	FIBER OPTIC CABLE, F&I, UNDERGROUND,2-12 FIBERS	LF	4,476.000
	0633- 1-122	FIBER OPTIC CABLE, F&I, UNDERGROUND,13-48 FIBERS	LF	16,754.000
	0633- 1-124	FIBER OPTIC CABLE, F&I, UNDERGROUND, 97 - 144 FIBERS	LF	68,697.000
	0633- 1-620	FIBER OPTIC CABLE, REMOVE, UNDERGROUND	LF	58,281.000
	0633- 2- 31	FIBER OPTIC CONNECTION, INSTALL, SPLICE	EA	849.000
	0633- 2- 32	FIBER OPTIC CONNECTION, INSTALL, TERMINATION	EA	1,416.000
	0633- 3- 11	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE ENCLOSURE	EA	21.000
	0633- 3- 12	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE TRAY	EA	190.000
	0633- 3- 16	FIBER OPTIC CONNECTION HARDWARE, F&I, PATCH PANEL- FIELD TERMINATED	EA	29.000
	0633- 6-	FIBER OPTIC CABLE LOCATOR	DA	661.000
	0633- 8- 1	MULTI-CONDUCTOR COMMUNICATION CABLE, FURNISH & INSTALL	LF	368.000
	0635- 2- 11	PULL & SPLICE BOX, F&I, 13" x 24" COVER SIZE	EA	156.000
	0635- 2- 12	PULL & SPLICE BOX, F&I, 24" X 36" COVER SIZE	EA	85.000
	0635- 2- 19	PULL & SPLICE BOX, F&I, DIMENSIONS PER UTILITY/AGENCY OWNER	EA	17.000
	0635- 2- 30	PULL & SPLICE BOX, INSTALL	EA	51.000
	0635- 4- 11	FIBER OPTIC SPLICE VAULT, FURNISH & INSTALL, 54"W X 54"L X 48"D	EA	19.000
	0639- 1-122	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR	AS	7.000
	0639- 1-620	ELECTRICAL POWER SERVICE, REMOVE UNDERGROUND	AS	2.000
	0639- 2- 1	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	LF	51,573.000
	0639- 2- 6	ELECTRICAL SERVICE WIRE, REMOVE	LF	7,693.000
	0639- 3- 11	ELECTRICAL SERVICE DISCONNECT, F&I, POLE MOUNT	EA	33.000
	0639- 3- 60	ELECTRICAL SERVICE DISCONNECT, REMOVE- POLE OR CABINET TO REMAIN	EA	1.000
	0639- 5- 2	EMERGENCY GENERATOR-PERMANENT 26-50 KW	EA	2.000
	0639- 6-121	ELECTRICAL POWER SERVICE- TRANSFORMER, F&I, 5-10 KVA, SINGLE PHASE, COPPER WINDINGS	EA	17.000
	0639- 6-131	ELECTRICAL POWER SERVICE- TRANSFORMER, F&I, 11-15 KVA, SINGLE PHASE, COPPER WINDINGS	EA	4.000
	0639- 6-151	ELECTRICAL POWER SERVICE- TRANSFORMER, F&I, 26-50 KVA, SINGLE PHASE, COPPER WINDINGS	EA	2.000
	0641- 2- 12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-II SERVICE POLE	EA	25.000
	0641- 2- 13	PRESTRESSED CONCRETE POLE, F&I, TYPE P-III	EA	2.000
	0641- 2- 60	PRESTRESSED CONCRETE POLE, COMPLETE POLE REMOVAL- PEDESTAL/SERVICE POLE	EA	2.000

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	0641- 2- 70	PRESTRESSED CONCRETE POLE, SHALLOW POLE REMOVAL- POLE 30' AND GREATER	EA	2.000
	0641- 3-163	CONCRETE CCTV POLE, FURNISH & INSTALL WITH LOWERING DEVICE, 63'	EA	13.000
	0641- 3-169	CONCRETE CCTV POLE, FURNISH & INSTALL WITH LOWERING DEVICE, 69'	EA	5.000
	0641- 3-186	CONCRETE CCTV POLE, FURNISH & INSTALL WITH LOWERING DEVICE, 86'	EA	3.000
	0641- 3-700	CONCRETE CCTV POLE, SHALLOW POLE REMOVAL	EA	4.000
	0660- 3- 11	VEHICLE DETECTION SYSTEM- MICROWAVE, FURNISH & INSTALL CABINET EQUIPMENT	EA	21.000
	0660- 3- 12	VEHICLE DETECTION SYSTEM- MICROWAVE, FURNISH & INSTALL, ABOVE GROUND EQUIPMENT	EA	21.000
	0660- 3- 60	VEHICLE DETECTION SYSTEM - MICROWAVE, REMOVE, COMPLETE SYSTEM	EA	2.000
	0660- 6-121	VEHICLE DETECTION SYSTEM- AVI, BLUETOOTH, FURNISH & INSTALL, CABINET EQUIPMENT	EA	4.000
	0660- 6-122	VEHICLE DETECTION SYSTEM- AVI, BLUETOOTH, FURNISH & INSTALL, ABOVE GROUND EQUIPMENT	EA	4.000
	0676- 2-122	ITS CABINET, FURNISH & INSTALL, POLE MOUNT WITH SUNSHIELD, 336S, 24" W X 46" H X 22" D	EA	17.000
	0676- 2-147	ITS CABINET, FURNISH & INSTALL, BASE MOUNT WITH SUNSHIELD, 332D 66" H x 48" W x 30" D	EA	4.000
	0676- 2-600	ITS CABINET- REMOVE	EA	6.000
	0676- 3- 10	SMALL EQUIPMENT ENCLOSURE, FURNISH AND INSTALL, LESS THAN 10"W X 13"H X 11" D	EA	7.000
	0677- 1- 11	EQUIPMENT SHELTER, FURNISH & INSTALL, UP TO 120 SF	EA	2.000
	0677- 1- 61	EQUIPMENT SHELTER, REMOVE, UP TO 120 SF	EA	1.000
	0682- 1-113	ITS CCTV CAMERA, F&I, DOME PTZ ENCLOSURE - PRESSURIZED, IP, HIGH DEFINITION	EA	21.000
	0682- 1-600	ITS CCTV CAMERA, REMOVE & DISPOSAL	EA	2.000
	0684- 1- 1	MANAGED FIELD ETHERNET SWITCH, FURNISH & INSTALL	EA	21.000
	0684- 2- 1	DEVICE SERVER, FURNISH & INSTALL	EA	21.000
	0684- 5- 1	MEDIA CONVERTER, FURNISH & INSTALL	EA	7.000
	0684- 90-101	NETWORK DEVICE, MANAGED HUB ETHERNET SWITCH, LAYER 3	EA	2.000
	0685- 1- 12	UNINTERRUPTIBLE POWER SUPPLY, FURNISH AND INSTALL, ONLINE/DOUBLE CONVERSION	EA	23.000
	0685- 2- 1	REMOTE POWER MANAGEMENT UNIT- RPMU, FURNISH AND INSTALL	EA	23.000
	0920-688-100	ROAD WEATHER INFORMATION SYSTEM (RWIS)	EA	2.000