

Florida Department of Transportation
Bid Solicitation Notice and Approximate Quantities

Letting: 08190514 Call Order: 006 Proposal: E8R75 District:08

Counties: TURNPIKE

Road Name: AET 5C, TPK SAWGRASS XWAY TO LANTANA TOLL PLAZA (MP71-88)

Limits: 93470000

Project(s): 42933945201(*) Federal Aid No: N/A

Total Roadway Length:	25.114 Miles	Contract Days:	565
Total Bridge Length:	0.000 Miles	Letting Date:	05/14/19
Total Proposal Length:	25.114 Miles	Contract Execution Days:	10
		Special Start Date:	N/A
		Aquis/Flexible Start Time:	30

Proposal Budget Estimate: \$16,090,156.00

Please read the full advertisement

Description:

Work consists of providing all labor, materials, equipment and incidentals necessary for All Electronic Tolling (AET) conversion to modify the existing stop and go ramp plazas along the Florida's Turnpike (SR 91) interchanges with Glades Road (SR 808), Atlantic Avenue (SR 806) and Boynton Beach Blvd (SR 804) with AET tolling gantries. Because of the AET conversion this project also includes milling and resurfacing of the mainline and ramps as depicted in the Plans, signing and pavement marking modifications and ITS improvements. The project limits range from Milepost 75 to Milepost 88 along the Florida's Turnpike (SR 91) within Palm Beach County. No Pre-Bid Conference. Contractor must be prequalified.

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 (42933945201)	LS	1.000
	0102- 1-	MAINTENANCE OF TRAFFIC (42933945201)	LS	1.000
	0102- 2- 1	SPECIAL DETOUR 1 (42933945201)	LS	1.000
	0102- 14-	TRAFFIC CONTROL OFFICER	HR	188.000
	0102- 60-	WORK ZONE SIGN	ED	108,457.000
	0102- 71- 13	TEMPORARY BARRIER, F&I, LOW PROFILE, CONCRETE	LF	3,360.000
	0102- 71- 15	TEMPORARY BARRIER, F&I, ANCHORED	LF	17,780.000
	0102- 71- 23	TEMPORARY BARRIER, RELOCATE, LOW PROFILE CONCRETE	LF	4,476.000
	0102- 71- 25	TEMPORARY BARRIER, RELOCATE, ANCHORED	LF	27,491.000
	0102- 74- 1	CHANNELIZING DEVICE- TYPES I, II, DI, VP, DRUM, OR LCD	ED	292,868.000
	0102- 74- 2	CHANNELIZING DEVICE, TYPE III, 6'	ED	23,316.000
	0102- 74- 7	CHANNELIZING DEVICE- PEDESTRIAN LCD (LONGITUDINAL CHANNELIZING DEVICE)	LF	198.000
	0102- 76-	ARROW BOARD / ADVANCE WARNING ARROW PANEL	ED	3,555.000
	0102- 78-	TEMPORARY RETROREFLECTIVE PAVEMENT MARKER	EA	3,216.000
	0102- 89- 1	TEMPORARY CRASH CUSHION, REDIRECTIVE OPTION	LO	46.000
	0102- 99-	PORTABLE CHANGEABLE MESSAGE SIGN, TEMPORARY	ED	8,760.000
	0102-104-	TEMPORARY SIGNALIZATION AND MAINTENANCE, INTERSECTION	ED	1,584.000
	0102-107- 1	TEMPORARY TRAFFIC DETECTION AND MAINTENANCE, INTERSECTION	ED	1,584.000
	0102-911- 2	PAVEMENT MARKING REMOVABLE TAPE, WHITE OR BLACK,SOLID	LF	360.000

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ALT	Item	Description	Unit	Quantity
	0104- 10- 3	SEDIMENT BARRIER	LF	20,586.000
	0104- 12-	STAKED TURBIDITY BARRIER- NYLON REINFORCED PVC	LF	694.000
	0104- 18-	INLET PROTECTION SYSTEM	EA	70.000
	0107- 1-	LITTER REMOVAL	AC	971.510
	0107- 2-	MOWING	AC	972.420
	0108- 1-	MONITOR EXISTING STRUCTURES- INSPECTION AND SETTLEMENT MONITORING (42933945201)	LS	1.000
	0108- 2-	MONITOR EXISTING STRUCTURES- VIBRATION MONITORING (42933945201)	LS	1.000
	0110- 1- 1	CLEARING & GRUBBING (42933945201)	LS	1.000
	0110- 4- 10	REMOVAL OF EXISTING CONCRETE	SY	7,883.000
	0120- 1-	REGULAR EXCAVATION	CY	13,159.000
	0120- 6-	EMBANKMENT	CY	6,081.200
	0160- 4-	TYPE B STABILIZATION	SY	24,386.000
	0162- 1- 11	PREPARED SOIL LAYER, FINISH SOIL LAYER, 6"	SY	27,652.000
	0210- 1- 9	REWORKING LIMEROCK BASE, 3"	SY	139.000
	0285-701-	OPTIONAL BASE, BASE GROUP 01	SY	1,244.000
	0285-704-	OPTIONAL BASE, BASE GROUP 04	SY	1,904.000
	0285-705-	OPTIONAL BASE, BASE GROUP 05	SY	2,617.000
	0285-706-	OPTIONAL BASE, BASE GROUP 06	SY	6,680.000
	0285-709-	OPTIONAL BASE, BASE GROUP 09	SY	7,564.000
	0285-715-	OPTIONAL BASE, BASE GROUP 15	SY	2,228.000
	0327- 70- 1	MILLING EXIST ASPH PAVT, 1" AVG DEPTH	SY	1,064.000
	0327- 70- 4	MILLING EXIST ASPH PAVT, 3" AVG DEPTH	SY	1,716.000
	0327- 70- 5	MILLING EXIST ASPH PAVT, 2" AVG DEPTH	SY	11,797.000
	0327- 70- 8	MILLING EXIST ASPH PAVT, 2 1/2" AVG DEPTH	SY	40,662.000
	0327- 70- 11	MILLING EXIST ASPH PAVT, 2 1/4" AVG DEPTH	SY	864.000
	0334- 1- 11	SUPERPAVE ASPHALTIC CONC, TRAFFIC A	TN	466.000
	0334- 1- 12	SUPERPAVE ASPHALTIC CONC, TRAFFIC B	TN	1,936.600
	0334- 1- 13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	TN	22,947.100
	0334- 1- 53	SUPERPAVE ASPHALTIC CONCRETE, TRAFFIC C, PG76-22	TN	3,140.900
	0334- 1- 54	SUPERPAVE ASPHALTIC CONCRETE, TRAFFIC D, PG76-22	TN	1,043.000
	0337- 7- 25	ASPHALT CONCRETE FRICTION COURSE, INC BIT, FC-5, PG 76-22	TN	794.300
	0337- 7- 83	ASPHALT CONCRETE FRICTION COURSE, TRAFFIC C, FC-12.5, PG 76-22	TN	3,324.600
	0339- 1-	MISCELLANEOUS ASPHALT PAVEMENT	TN	101.500
	0400- 1- 2	CONCRETE CLASS I, ENDWALLS	CY	6.000
	0425- 1-351	INLETS, CURB, TYPE P-5, <10'	EA	1.000
	0425- 1-355	INLETS, CURB, TYPE P-5, PARTIAL	EA	1.000
	0425- 1-361	INLETS, CURB, TYPE P-6, <10'	EA	1.000
	0425- 1-471	INLETS, CURB, TYPE 7, <10'	EA	1.000
	0425- 1-505	INLETS, DT BOT, TYPE A, PARTIAL	EA	1.000
	0425- 1-541	INLETS, DT BOT, TYPE D, <10'	EA	2.000
	0425- 1-701	INLETS, GUTTER, TYPE S, <10'	EA	1.000
	0425- 1-781	INLETS, MEDIAN BARRIER, TYPE 1, <=10'	EA	7.000
	0425- 1-910	INLETS, CLOSED FLUME	EA	2.000

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	0425- 2- 61	MANHOLES, P-8, <10'	EA	1.000
	0425- 2- 63	MANHOLES, P-8, PARTIAL	EA	2.000
	0425- 11-	MODIFY EXISTING DRAINAGE STRUCTURE	EA	3.000
	0430- 94- 1	DESILTING PIPE, 0 - 24"	LF	1,304.000
	0430- 94- 4	DESILTING PIPE, 49 - 60"	LF	28.000
	0430-175-115	PIPE CULVERT,OPTIONAL MATERIAL,ROUND, 15"S/CD	LF	12.000
	0430-175-118	PIPE CULVERT,OPTIONAL MATERIAL,ROUND, 18"S/CD	LF	595.000
	0430-175-124	PIPE CULVERT,OPTIONAL MATERIAL,ROUND, 24"S/CD	LF	119.000
	0430-830-	PIPE FILLING AND PLUGGING- PLACE OUT OF SERVICE	CY	0.200
	0430-982-125	MITERED END SECTION, OPTIONAL ROUND, 18" CD	EA	4.000
	0430-982-129	MITERED END SECTION, OPTIONAL ROUND, 24" CD	EA	2.000
	0520- 1- 10	CONCRETE CURB & GUTTER, TYPE F	LF	3,562.000
	0520- 5- 12	TRAFFIC SEPARATOR CONCRETE-TYPE I, 6' WIDE	LF	153.000
	0520- 6-	SHOULDER GUTTER- CONCRETE	LF	252.000
	0520- 70-	CONCRETE TRAFFIC SEPARATOR, SPECIAL- VARIABLE WIDTH	SY	136.000
	0521- 1- 11	MEDIAN CONCRETE BARRIER, 38" HEIGHT	LF	385.000
	0521- 1- 12	MEDIAN CONCRETE BARRIER, SHORT GRADE-SEPARATED	LF	1,258.000
	0521- 1- 13	MEDIAN CONCRETE BARRIER, TALL GRADE-SEPARATED	LF	182.000
	0521- 1- 14	MEDIAN CONCRETE BARRIER, VARIABLE SECTION WIDTH FOR SIGN OR PIER SHIELDING	LF	207.000
	0521- 72- 40	SHOULDER CONCRETE BARRIER, 38" OR 44" HEIGHT	LF	375.000
	0521- 72- 43	SHOULDER CONCRETE BARRIER, CURB AND GUTTER BARRIER	LF	114.000
	0522- 1-	CONCRETE SIDEWALK AND DRIVEWAYS, 4" THICK	SY	11.000
	0522- 2-	CONCRETE SIDEWALK AND DRIVEWAYS, 6" THICK	SY	367.000
	0530- 1-	RIPRAP, SAND-CEMENT	CY	58.000
	0536- 1- 0	GUARDRAIL -ROADWAY, GENERAL/LOW SPEED TL-2	LF	1,922.000
	0536- 8- 12	APPROACH TRANSITION CONNECTION TO RIGID BARRIER, FURNISH AND INSTALL, TL-2	EA	11.000
	0536- 73-	GUARDRAIL REMOVAL	LF	937.000
	0536- 85- 24	GUARDRAIL END TREATMENT- PARALLEL APPROACH TERMINAL	EA	11.000
	0536- 85- 25	GUARDRAIL END TREATMENT- TRAILING ANCHORAGE TYPE II	EA	4.000
	0544- 75- 1	CRASH CUSHION	EA	3.000
	0546- 72- 1	GROUND-IN RUMBLE STRIPS, 16"	GM	0.440
	0570- 1- 1	PERFORMANCE TURF	SY	107,869.000
	0570- 1- 2	PERFORMANCE TURF, SOD	SY	33,535.000
	0639- 8- 12	ELECTRICAL POWER SERVICE- CONTRIBUTION IN AID OF CONSTRUCTION (CIAC), PROJECT 429339-4-52-01 (DO NOT BID) (42933945201)	LS	1.000
	0710- 11-101	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 6"	GM	15.900
	0710- 11-102	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR INTERCHANGE AND URBAN ISLAND, 8"	GM	1.010
	0710- 11-103	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR INTERCHANGE MARKINGS, 12"	GM	0.500
	0710- 11-123	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR CROSSWALK AND ROUNDABOUT, 12"	LF	124.000
	0710- 11-125	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR STOP LINE OR CROSSWALK, 24"	LF	390.000

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	0710- 11-131	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SKIP, 10-30 OR 3-9 SKIP, 6" WIDE	GM	0.610
	0710- 11-160	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, MESSAGE OR SYMBOL	EA	13.000
	0710- 11-170	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, ARROWS	EA	41.000
	0710- 11-201	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 6"	GM	9.690
	0999- 16-	PARTNERING, DO NOT BID (42933945201)	LS	1.000
	0999- 25-	INITIAL CONTINGENCY AMOUNT, DO NOT BID (42933945201)	LS	1.000
Section 0002 Signing				
	0700- 1- 11	SINGLE POST SIGN, F&I GROUND MOUNT, UP TO 12 SF	AS	16.000
	0700- 1- 12	SINGLE POST SIGN, F&I GROUND MOUNT, 12-20 SF	AS	20.000
	0700- 1- 13	SINGLE POST SIGN, F&I GROUND MOUNT, 21-30 SF	AS	6.000
	0700- 1- 22	SINGLE POST SIGN, F&I BARRIER MOUNT INDEX 11871/700-013, 12-20 SF	AS	7.000
	0700- 1- 50	SINGLE POST SIGN, RELOCATE	AS	1.000
	0700- 1- 60	SINGLE POST SIGN, REMOVE	AS	49.000
	0700- 2- 15	MULTI- POST SIGN, F&I GROUND MOUNT, 51-100 SF	AS	6.000
	0700- 2- 16	MULTI- POST SIGN, F&I GROUND MOUNT, 101-200 SF	AS	6.000
	0700- 2- 17	MULTI- POST SIGN, F&I GROUND MOUNT, 201-300 SF	AS	2.000
	0700- 2- 60	MULTI- POST SIGN, REMOVE	AS	18.000
	0700- 3-204	SIGN PANEL, FURNISH & INSTALL OVERHEAD MOUNT, 31-50 SF	EA	2.000
	0700- 3-205	SIGN PANEL, FURNISH & INSTALL OVERHEAD MOUNT, 51-100 SF	EA	2.000
	0700- 3-206	SIGN PANEL, FURNISH & INSTALL OVERHEAD MOUNT, 101-200 SF	EA	17.000
	0700- 3-605	SIGN PANEL, REMOVE, 51-100 SF	EA	6.000
	0700- 3-606	SIGN PANEL, REMOVE, 101-200 SF	EA	8.000
	0700- 3-626	SIGN PANEL, REMOVE, 101-200 SF WITH LIGHTING	EA	11.000
	0700- 3-628	SIGN PANEL, REMOVE PANEL, 301-400 SF WITH LIGHTING	EA	1.000
	0700- 4-111	OVERHEAD STATIC SIGN STRUCTURE, FURNISH & INSTALL, CANTILEVER, UP TO 20 FT	EA	7.000
	0700- 4-112	OVERHEAD STATIC SIGN STRUCTURE, FURNISH & INSTALL, CANTILEVER, 21-30 FT	EA	3.000
	0700- 4-126	OVERHEAD STATIC SIGN STRUCTURE, FURNISH & INSTALL, SPAN, 101-150 FT	EA	2.000
	0700- 4-610	OVERHEAD STATIC SIGN STRUCTURE, REMOVE CANTILEVER	EA	6.000
	0700- 4-620	OVERHEAD STATIC SIGN STRUCTURE, REMOVE SPAN	EA	2.000
	0700- 12- 60	SIGN BEACON, REMOVE BEACON- SIGN TO REMAIN	AS	2.000
	0700- 13- 12	RETROREFLECTIVE SIGN STRIP- FURNISH AND INSTALL, 2'	EA	2.000
	0705- 10- 1	OBJECT MARKER, TYPE 1	EA	1.000
	0705- 11- 1	DELINEATOR, FLEXIBLE TUBULAR	EA	11.000
	0706- 3-	RETRO-REFLECTIVE/RAISED PAVEMENT MARKERS	EA	1,587.000
	0710- 90-	PAINTED PAVEMENT MARKINGS, FINAL SURFACE (42933945201)	LS	1.000
	0711- 11-102	THERMOPLASTIC, STANDARD, WHITE, SOLID, 8" FOR INTERCHANGE AND URBAN ISLAND	GM	0.764
	0711- 11-103	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12" FOR INTERCHANGE MARKINGS	GM	1.131
	0711- 11-123	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12" FOR CROSSWALK AND ROUNDABOUT	LF	296.000

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	0711- 11-124	THERMOPLASTIC, STANDARD, WHITE, SOLID, 18" FOR DIAGONALS AND CHEVRONS	LF	453.000
	0711- 11-125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24" FOR STOP LINE AND CROSSWALK	LF	208.000
	0711- 11-141	THERMOPLASTIC, STANDARD, WHITE, 2-4 DOTTED GUIDELINE/ 6-10 GAP EXTENSION, 6"	GM	0.026
	0711- 11-160	THERMOPLASTIC, STANDARD, WHITE, MESSAGE OR SYMBOL	EA	18.000
	0711- 11-170	THERMOPLASTIC, STANDARD, WHITE, ARROW	EA	63.000
	0711- 11-224	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 18" FOR DIAGONAL OR CHEVRON	LF	1,352.000
	0711- 11-241	THERMOPLASTIC, STANDARD, YELLOW, 2-4 DOTTED GUIDE LINE /6-10 DOTTED EXTENSION LINE, 6"	GM	0.030
	0711- 15-101	THERMOPLASTIC, STANDARD-OPEN GRADED ASPHALT SURFACES WHITE, SOLID, 6"	GM	3.805
	0711- 15-131	THERMOPLASTIC, STANDARD-OPEN GRADED ASPHALT SURFACES, WHITE, SKIP, 6",10-30 SKIP OR 3-9 LANE DROP	GM	1.351
	0711- 15-133	THERMOPLASTIC, STANDARD-OPEN GRADED ASPHALT SURFACES, WHITE, SKIP, 12"- APPROACH TO TOLL PLAZA OR 3-9 LANE DROP	GM	0.087
	0711- 15-201	THERMOPLASTIC, STANDARD-OPEN GRADED ASPHALT SURFACES, YELLOW, SOLID, 6"	GM	2.736
Section 0003 Lighting				
	0630- 2- 11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF	4,078.000
	0630- 2- 12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	462.000
	0630- 2- 15	CONDUIT, FURNISH & INSTALL, BRIDGE MOUNT	LF	188.000
	0635- 2- 11	PULL & SPLICE BOX, F&I, 13" x 24" COVER SIZE	EA	17.000
	0635- 3- 12	JUNCTION BOX, FURNISH & INSTALL, MOUNTED	EA	2.000
	0715- 1- 12	LIGHTING CONDUCTORS, F&I, INSULATED, NO.8 - 6	LF	18,413.000
	0715- 1- 13	LIGHTING CONDUCTORS, F&I, INSULATED, NO 4 TO NO 2	LF	1,672.000
	0715- 1- 15	LIGHTING CONDUCTORS, F&I, NO.1/0 - 3/0 (0 to 000)	LF	2,058.000
	0715- 1- 60	LIGHTING CONDUCTORS, REMOVE & DISPOSE, CONTRACTOR OWNS	LF	17,658.000
	0715- 4- 14	LIGHT POLE COMPLETE, FURNISH & INSTALL STANDARD POLE STANDARD FOUNDATION, 45' MOUNTING HEIGHT	EA	2.000
	0715- 4- 60	LIGHT POLE COMPLETE, RELOCATE	EA	5.000
	0715- 4- 70	LIGHT POLE COMPLETE, REMOVE POLE AND FOUNDATION	EA	3.000
	0715- 7- 21	LOAD CENTER, REWORK, SECONDARY VOLTAGE	EA	1.000
	0715-500- 1	POLE CABLE DISTRIBUTION SYSTEM, CONVENTIONAL	EA	2.000
Section 0004 Signalization				
	0630- 2- 11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF	20.000
	0630- 2- 12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	882.000
	0630- 2- 14	CONDUIT, FURNISH & INSTALL, ABOVEGROUND	LF	30.000
	0633- 1-420	FIBER OPTIC CABLE, RELOCATE, UNDERGROUND	LF	922.000
	0633- 2- 32	FIBER OPTIC CONNECTION, INSTALL, TERMINATION	EA	12.000
	0633- 3- 44	FIBER OPTIC CONNECTION HARDWARE, RELOCATE,	EA	12.000
	0633- 4- 4	SIGNALS COMMUNICATION CABLE- TWISTED PAIR CABLE, RELOCATE	LF	40.000
	0635- 2- 11	PULL & SPLICE BOX, F&I, 13" x 24" COVER SIZE	EA	1.000
	0635- 2- 12	PULL & SPLICE BOX, F&I, 24" X 36" COVER SIZE	EA	1.000

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	0639- 2- 4	ELECTRICAL SERVICE WIRE, RELOCATE	LF	882.000
	0641- 3-263	CONCRETE CCTV POLE, FURNISH & INSTALL WITHOUT LOWERING DEVICE, 63'	EA	1.000
	0660- 2-106	LOOP ASSEMBLY, F&I, TYPE F	AS	1.000
	0660- 4- 42	VEHICLE DETECTION SYSTEM- VIDEO, RELOCATE ABOVE GROUND EQUIPMENT	EA	1.000
	0676- 1-134	TRAFFIC SIGNAL CONTROLLER CABINET, FURNISH & INSTALL W/OUT CONTROLLER, NEMA UNWIRED SIZE 4, 24" W X 40" H X 15" D	EA	1.000
Section 0005 Architectural				
	0735- 74- 1	TOLL PLAZA, LOCATION 1 (42933945201)	LS	1.000
	0735- 74- 2	TOLL PLAZA, LOCATION 2 (42933945201)	LS	1.000
	0735- 74- 3	TOLL PLAZA, LOCATION 3 (42933945201)	LS	1.000
	0735- 74- 4	TOLL PLAZA, LOCATION 4 (42933945201)	LS	1.000
	0735- 74- 5	TOLL PLAZA, LOCATION 5 (42933945201)	LS	1.000
	0735- 88- 1	TOLL PLAZA MODIFY EXISTING, LOCATION 1 (42933945201)	LS	1.000
	0735- 88- 2	TOLL PLAZA MODIFY EXISTING, LOCATION 2 (42933945201)	LS	1.000
	0735- 88- 3	TOLL PLAZA MODIFY EXISTING, LOCATION 3 (42933945201)	LS	1.000
Section 0006 Intelligent Transportation System				
	0630- 2- 11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF	3,905.000
	0630- 2- 12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	2,300.000
	0633- 1-122	FIBER OPTIC CABLE, F&I, UNDERGROUND,13-48 FIBERS	LF	8,025.000
	0633- 1-620	FIBER OPTIC CABLE, REMOVE, UNDERGROUND	LF	1,010.000
	0633- 2- 31	FIBER OPTIC CONNECTION, INSTALL, SPLICE	EA	84.000
	0633- 2- 32	FIBER OPTIC CONNECTION, INSTALL, TERMINATION	EA	120.000
	0633- 3- 11	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE ENCLOSURE	EA	3.000
	0633- 3- 12	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE TRAY	EA	6.000
	0633- 3- 14	FIBER OPTIC CONNECTION HARDWARE, F&I, BUFFER TUBE FAN OUT KIT	EA	5.000
	0633- 3- 15	FIBER OPTIC CONNECTION HARDWARE, F&I, PRETERMINATED PATCH PANEL	EA	5.000
	0635- 2- 12	PULL & SPLICE BOX, F&I, 24" X 36" COVER SIZE	EA	23.000