

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

Letting: CT180613 Call Order: 003 Proposal: T6427 District:06
 Counties: MIAMI-DADE
 Road Name: SR 847 (NW 47 AVE)
 Limits: FROM SR 847 (NW 47TH AVE) FROM SR 860 (NW 183 ST) TO N OF NW 199 ST
 Project(s): 43063715201(*) Federal Aid No: 6107003U
 Project(s): 43063715601 Federal Aid No: N/A
 Total Roadway Length: 1.307 Miles Contract Days: 920
 Total Bridge Length: 0.000 Miles Letting Date: 06/13/18
 Total Proposal Length: 1.307 Miles Contract Execution Days: 10
 Special Start Date: N/A
 Aquis/Flexible Start Time: 60 Calendar Days
 Proposal Budget Estimate: \$22,399,999.00

Please read the full advertisement

Description: A+B Bidding/Incentive-Disincentive

THERE WILL BE A MANDATORY PRE-BID MEETING FOR THIS PROJECT AT 2:00 PM EST ON THURSDAY, MAY 17, 2018 AT THE FLORIDA DEPARTMENT OF TRANSPORTATION, DISTRICT SIX OFFICE, AUDITORIUM, 1000 NW 111TH AVE, MIAMI, FL 33172. IF YOU HAVE ANY QUESTIONS CONCERNING THIS MATTER, PLEASE CONTACT NATALIE GARGANTA, P.E. AT (305) 470-5269.

THIS PRE-BID MEETING IS MANDATORY BECAUSE OF THE COMPLEXITY OF THE PROJECT. ONLY PLANS AND SPECIFICATIONS WILL BE AVAILABLE PRIOR TO THE PRE-BID MEETING. THE PROSPECTIVE BIDDER SHALL BE PREQUALIFIED ACCORDING TO THE REQUIREMENTS OF FDOT RULE CHAPTER 14-22 AND SECTION 2-1 OF THE 2017 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

PROPOSALS (BIDDING DOCUMENTS) WILL BE ISSUED ONLY TO THE PROSPECTIVE BIDDERS WHO HAVE ATTENDED THE PRE-BID MEETING AND MET THE FLORIDA DEPARTMENT OF TRANSPORTATION QUALIFICATIONS FOR THIS PROJECT.

PROSPECTIVE BIDDERS ORDERING BID DOCUMENTS PRIOR TO THE PRE-BID MEETING WILL BE GIVEN ACCESS TO DOWNLOAD THE BID DOCUMENTS WITHIN 24 HOURS AFTER THE PRE-BID MEETING. THOSE PROSPECTIVE BIDDERS ORDERING THE DOCUMENTS AFTER THE PRE-BID MEETING WILL NEED TO CONTACT THE OFFICE ADVERTISING THE PROJECT TO CONFIRM ATTENDANCE AND RECEIVE ACCESS TO DOWNLOAD THE BID DOCUMENTS. PLEASE CONTACT THE OFFICE AT LEAST TWO WORKING DAYS PRIOR TO THE DEADLINE FOR OBTAINING BID DOCUMENTS TO ALLOW TIME FOR PROCESSING.

The improvements under this contract consist of adding lanes and reconstruction along SR 847 (NW 47 Ave.).

NOTE: This is a cost plus time proposal(A+B). The following sites are cost plus time sites.

Site	Description	Road Cost Per Day	Maximum Days
00	Contract Time	6000.00	920

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ALT	Item	Description	Unit	Quantity
Section 0001 Roadway				
	0101- 1-	MOBILIZATION (43063715201)	LS	1.000
	0102- 1-	MAINTENANCE OF TRAFFIC (43063715201)	LS	1.000
	0102- 2- 1	SPECIAL DETOUR 1 (43063715201)	LS	1.000
	0102- 2- 2	SPECIAL DETOUR 2 (43063715201)	LS	1.000
	0102- 2- 3	SPECIAL DETOUR 3 (43063715201)	LS	1.000
	0102- 2- 4	SPECIAL DETOUR 4 (43063715201)	LS	1.000
	0102- 2- 5	SPECIAL DETOUR 5 (43063715201)	LS	1.000

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ALT	Item	Description	Unit	Quantity
	0102- 2- 6	SPECIAL DETOUR 6 (43063715201)	LS	1.000
	0102- 3-	COMMERCIAL MATERIAL FOR TEMPORARY DRIVEWAY MAINTENANCE	CY	17.000
	0102- 14-	TRAFFIC CONTROL OFFICER	HR	576.000
	0102- 60-	WORK ZONE SIGN	ED	65,210.000
	0102- 71- 11	TEMPORARY BARRIER, F&I, CONCRETE	LF	8,469.000
	0102- 71- 14	TEMPORARY BARRIER, F&I, TYPE K	LF	7,721.000
	0102- 74- 1	CHANNELIZING DEVICE- TYPES I, II, DI, VP, DRUM, OR LCD	ED	185,510.000
	0102- 74- 2	CHANNELIZING DEVICE, TYPE III, 6'	ED	3,660.000
	0102- 74- 7	CHANNELIZING DEVICE- PEDESTRIAN LCD (LONGITUDINAL CHANNELIZING DEVICE)	LF	12,942.000
	0102- 76-	ARROW BOARD / ADVANCE WARNING ARROW PANEL	ED	1,950.000
	0102- 78-	TEMPORARY RETROREFLECTIVE PAVEMENT MARKER	EA	2,889.000
	0102- 89- 1	TEMPORARY CRASH CUSHION, REDIRECTIVE OPTION	LO	203.000
	0102- 99-	PORTABLE CHANGEABLE MESSAGE SIGN, TEMPORARY	ED	1,477.000
	0102-104-	TEMPORARY SIGNALIZATION AND MAINTENANCE, INTERSECTION	ED	3,680.000
	0102-107- 1	TEMPORARY TRAFFIC DETECTION AND MAINTENANCE, INTERSECTION	ED	3,680.000
	0104- 10- 3	SEDIMENT BARRIER	LF	312.000
	0104- 11-	FLOATING TURBIDITY BARRIER	LF	145.000
	0107- 1-	LITTER REMOVAL	AC	419.490
	0107- 2-	MOWING	AC	412.920
	0108- 1-	MONITOR EXISTING STRUCTURES- INSPECTION AND SETTLEMENT MONITORING (43063715201)	LS	1.000
	0110- 1- 1	CLEARING & GRUBBING (43063715201)	LS	1.000
	0110- 3-	REMOVAL OF EXISTING STRUCTURES/BRIDGES (43063715201)	LS	1.000
	0110- 4- 10	REMOVAL OF EXISTING CONCRETE	SY	12,331.000
	0110- 7- 1	MAILBOX, F&I SINGLE	EA	18.000
	0110- 86-	DELIVERY OF SALVAGEABLE MATERIAL TO FDOT (43063715201)	LS	1.000
	0120- 1-	REGULAR EXCAVATION	CY	18,975.300
	0120- 6-	EMBANKMENT	CY	8,628.000
	0160- 4-	TYPE B STABILIZATION	SY	71,562.000
	0162- 1- 11	PREPARED SOIL LAYER, FINISH SOIL LAYER, 6"	SY	93.000
	0285-709-	OPTIONAL BASE, BASE GROUP 09	SY	62,661.000
	0327- 70- 8	MILLING EXIST ASPH PAVT, 2 1/2" AVG DEPTH	SY	21,152.000
	0334- 1- 13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	TN	15,011.000
	0337- 7- 82	ASPHALT CONCRETE FRICTION COURSE, TRAFFIC C, FC-9.5, PG 76-22	TN	4,894.200
	0339- 1-	MISCELLANEOUS ASPHALT PAVEMENT	TN	2.200
	0400- 1- 2	CONCRETE CLASS I, ENDWALLS	CY	8.200
	0400- 4- 1	CONCRETE CLASS IV, CULVERTS	CY	57.600
	0415- 1- 1	REINFORCING STEEL- ROADWAY	LB	9,006.000
	0425- 1-201	INLETS, CURB, TYPE 9, <10'	EA	37.000
	0425- 1-351	INLETS, CURB, TYPE P-5, <10'	EA	21.000
	0425- 1-352	INLETS, CURB, TYPE P-5, >10'	EA	16.000
	0425- 1-361	INLETS, CURB, TYPE P-6, <10'	EA	7.000

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	0425- 1-362	INLETS, CURB, TYPE P-6, >10'	EA	3.000
	0425- 1-412	INLETS, CURB, TYPE J-1, >10'	EA	16.000
	0425- 1-451	INLETS, CURB, TYPE J-5, <10'	EA	13.000
	0425- 1-452	INLETS, CURB, TYPE J-5, >10'	EA	7.000
	0425- 1-461	INLETS, CURB, TYPE J-6, <10'	EA	3.000
	0425- 1-462	INLETS, CURB, TYPE J-6, >10'	EA	2.000
	0425- 1-521	INLETS, DT BOT, TYPE C,<10'	EA	8.000
	0425- 1-703	INLETS, GUTTER, TYPE S, J BOTTOM <10'	EA	37.000
	0425- 2- 71	MANHOLES, J-7, <10'	EA	44.000
	0425- 2- 72	MANHOLES, J-7, >10'	EA	54.000
	0425- 2- 92	MANHOLES, J-8, >10'	EA	2.000
	0425- 10-	YARD DRAIN	EA	8.000
	0430-175-115	PIPE CULVERT,OPTIONAL MATERIAL,ROUND, 15"S/CD	LF	98.000
	0430-175-118	PIPE CULVERT,OPTIONAL MATERIAL,ROUND, 18"S/CD	LF	3,502.000
	0430-175-124	PIPE CULVERT,OPTIONAL MATERIAL,ROUND, 24"S/CD	LF	1,438.000
	0430-175-136	PIPE CULVERT, OPT MATERIAL, ROUND, 36"S/CD	LF	1,603.000
	0430-830-	PIPE FILLING AND PLUGGING- PLACE OUT OF SERVICE	CY	154.700
	0430-886- 60	MANATEE GRATE FOR 60" OR GREATER PIPE, UNHINGED	EA	1.000
	0443- 70- 4	FRENCH DRAIN, 24"	LF	5,154.000
	0443- 70- 6	FRENCH DRAIN, 36"	LF	6,799.000
	0443- 70- 8	FRENCH DRAIN, 48"	LF	319.000
	0515- 1- 2	PIPE HANDRAIL - GUIDERAIL, ALUMINUM	LF	280.000
	0520- 1- 10	CONCRETE CURB & GUTTER, TYPE F	LF	27,183.000
	0520- 2- 4	CONCRETE CURB, TYPE D	LF	777.000
	0520- 5- 41	TRAFFIC SEPARATOR CONCRETE- TYPE IV, 4' WIDE	LF	737.000
	0520- 70-	CONCRETE TRAFFIC SEPARATOR, SPECIAL- VARIABLE WIDTH	SY	749.000
	0522- 1-	CONCRETE SIDEWALK AND DRIVEWAYS, 4" THICK	SY	8,291.000
	0522- 2-	CONCRETE SIDEWALK AND DRIVEWAYS, 6" THICK	SY	5,732.000
	0526- 1- 1	PAVERS, ARCHITECTURAL, ROADWAY	SY	51.000
	0527- 2-	DETECTABLE WARNINGS	SF	609.000
	0530- 1-	RIPRAP, SAND-CEMENT	CY	57.000
	0530- 3- 4	RIPRAP, RUBBLE, F&I, DITCH LINING	TN	86.000
	0536- 1- 1	GUARDRAIL -ROADWAY, GENERAL TL-3	LF	13.000
	0536- 73-	GUARDRAIL REMOVAL	LF	360.000
	0536- 85- 25	GUARDRAIL END TREATMENT- TRAILING ANCHORAGE TYPE II	EA	2.000
	0550- 10-218	FENCING, TYPE B, 0.0-5.0', RESET EXISTING	LF	547.000
	0550- 10-918	FENCING, SPECIAL TYPE, 0.0-5.0', RESET EXISTING	LF	427.000
	0570- 1- 2	PERFORMANCE TURF, SOD	SY	15,936.000
	0710- 11-101	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 6"	GM	12.048
	0710- 11-123	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR CROSSWALK AND ROUNDABOUT, 12"	LF	8,562.000
	0710- 11-125	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR STOP LINE OR CROSSWALK, 24"	LF	4,508.000
	0710- 11-131	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SKIP, 10-30 OR 3-9 SKIP, 6" WIDE	GM	7.344
	0710- 11-201	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 6"	GM	8.980

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	0710- 11-231	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SKIP, 6"	GM	0.060
	0999- 16-	PARTNERING, DO NOT BID (43063715201)	LS	1.000
	0999- 20- 1	DISPUTES REVIEW BOARD, MEETING- DO NOT BID	DA	20.000
	0999- 20- 2	DISPUTES REVIEW BOARD, HEARING- DO NOT BID	EA	2.000
	0999- 25-	INITIAL CONTINGENCY AMOUNT, DO NOT BID (43063715201)	LS	1.000
Section 0002 Signing				
	0700- 1- 11	SINGLE POST SIGN, F&I GROUND MOUNT, UP TO 12 SF	AS	91.000
	0700- 1- 12	SINGLE POST SIGN, F&I GROUND MOUNT, 12-20 SF	AS	15.000
	0700- 1- 13	SINGLE POST SIGN, F&I GROUND MOUNT, 21-30 SF	AS	11.000
	0700- 1- 50	SINGLE POST SIGN, RELOCATE	AS	10.000
	0700- 1- 60	SINGLE POST SIGN, REMOVE	AS	98.000
	0700- 2- 14	MULTI- POST SIGN, F&I GROUND MOUNT, 31-50 SF	AS	1.000
	0700- 2- 15	MULTI- POST SIGN, F&I GROUND MOUNT, 51-100 SF	AS	1.000
	0700- 2- 60	MULTI- POST SIGN, REMOVE	AS	5.000
	0705- 10- 1	OBJECT MARKER, TYPE 1	EA	3.000
	0705- 11- 3	DELINEATOR, FLEXIBLE HIGH VISABILITY MEDIAN	EA	13.000
	0710- 11-290	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, ISLAND NOSE	SF	615.000
	0710- 90-	PAINTED PAVEMENT MARKINGS, FINAL SURFACE (43063715201)	LS	1.000
	0711- 11-123	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12" FOR CROSSWALK AND ROUNDABOUT	LF	4,205.000
	0711- 11-124	THERMOPLASTIC, STANDARD, WHITE, SOLID, 18" FOR DIAGONALS AND CHEVRONS	LF	484.000
	0711- 11-125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24" FOR STOP LINE AND CROSSWALK	LF	2,254.000
	0711- 11-141	THERMOPLASTIC, STANDARD, WHITE, 2-4 DOTTED GUIDELINE/ 6-10 GAP EXTENSION, 6"	GM	1.365
	0711- 11-160	THERMOPLASTIC, STANDARD, WHITE, MESSAGE OR SYMBOL	EA	60.000
	0711- 11-170	THERMOPLASTIC, STANDARD, WHITE, ARROW	EA	155.000
	0711- 11-224	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 18" FOR DIAGONAL OR CHEVRON	LF	589.000
	0711- 11-241	THERMOPLASTIC, STANDARD, YELLOW, 2-4 DOTTED GUIDE LINE /6-10 DOTTED EXTENSION LINE, 6"	GM	0.062
	0711- 14-125	THERMOPLASTIC, PREFORMED, WHITE, SOLID, 24" FOR CROSSWALK	LF	2,389.000
	0711- 14-160	THERMOPLASTIC, PREFORMED, WHITE, MESSAGE	EA	36.000
	0711- 14-170	THERMOPLASTIC, PREFORMED, WHITE, ARROW	EA	36.000
	0711- 16-101	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SOLID, 6"	GM	6.356
	0711- 16-102	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SOLID, 8"	GM	0.512
	0711- 16-131	THERMOPLASTIC, OTHER SURFACES, WHITE, SKIP, 6",10-30 SKIP OR 3-9 LANE DROP	GM	3.672
	0711- 16-201	THERMOPLASTIC, STANDARD-OTHER SURFACES, YELLOW, SOLID, 6"	GM	4.490
	0711- 16-231	THERMOPLASTIC, STANDARD-OTHER SURFACES, YELLOW, SKIP, 6"	GM	0.030
Section 0003 Lighting				
	0630- 2- 11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF	930.000
	0630- 2- 12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	10,157.000
	0635- 2- 11	PULL & SPLICE BOX, F&I, 13" x 24" COVER SIZE	EA	108.000

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ALT	Item	Description	Unit	Quantity
	0639- 6- 1	ELECTRICAL POWER SERVICE- TRANSFORMER FURNISH & INSTALL	EA	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	18,570.000
	0715- 1- 13	LIGHTING CONDUCTORS, F&I, INSULATED, NO 4 TO NO 2	LF	20,548.000
	0715- 1- 60	LIGHTING CONDUCTORS, REMOVE & DISPOSE, CONTRACTOR OWNS	LF	5,154.000
	0715- 4- 14	LIGHT POLE COMPLETE, FURNISH & INSTALL STANDARD POLE STANDARD FOUNDATION, 45' MOUNTING HEIGHT	EA	75.000
	0715- 4- 24	LIGHT POLE COMPLETE, FURNISH & INSTALL STANDARD POLE SPECIAL FOUNDATION, 45' MOUNTING HEIGHT	EA	1.000
	0715- 4- 32	LIGHT POLE COMPLETE, FURNISH & INSTALL UTILITY CONFLICT POLE, INDEX 17515/715-002 FOUNDATION, 35' MOUNTING HEIGHT	EA	17.000
	0715- 4- 70	LIGHT POLE COMPLETE, REMOVE POLE AND FOUNDATION	EA	13.000
	0715- 7- 11	LOAD CENTER, F&I, SECONDARY VOLTAGE	EA	2.000
	0715-500- 1	POLE CABLE DISTRIBUTION SYSTEM, CONVENTIONAL	EA	93.000
Section 0004 Signalization				
	0630- 2- 12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	5,065.000
	0632- 7- 1	SIGNAL CABLE- NEW OR RECONSTRUCTED INTERSECTION, FURNISH & INSTALL	PI	6.000
	0632- 7- 6	SIGNAL CABLE, REMOVE- INTERSECTION	PI	4.000
	0635- 2- 11	PULL & SPLICE BOX, F&I, 13" x 24" COVER SIZE	EA	144.000
	0639- 1-122	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR	AS	6.000
	0639- 1-610	ELECTRICAL POWER SERVICE, REMOVE OVERHEAD	AS	3.000
	0639- 1-620	ELECTRICAL POWER SERVICE, REMOVE UNDERGROUND	AS	1.000
	0639- 2- 1	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	LF	1,065.000
	0639- 2- 6	ELECTRICAL SERVICE WIRE, REMOVE	LF	1,190.000
	0639- 3- 60	ELECTRICAL SERVICE DISCONNECT, REMOVE- POLE OR CABINET TO REMAIN	EA	4.000
	0641- 2- 12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-II SERVICE POLE	EA	6.000
	0641- 2- 80	PRESTRESSED CONCRETE POLE, COMPLETE POLE REMOVAL- POLE 30' AND GREATER	EA	8.000
	0646- 1- 11	ALUMINUM SIGNALS POLE, PEDESTAL	EA	27.000
	0646- 1- 60	ALUMINUM SIGNALS POLE, REMOVE	EA	5.000
	0649- 21- 1	STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL, SINGLE ARM 30'	EA	3.000
	0649- 21- 3	STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL, SINGLE ARM 40'	EA	5.000
	0649- 21- 13	STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL, DOUBLE ARM 60'-50'	EA	1.000
	0649- 21- 15	STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL, SINGLE ARM 70'	EA	7.000
	0649- 21- 21	STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL, SINGLE ARM 78'	EA	1.000
	0649- 26- 3	STEEL MAST ARM ASSEMBLY, REMOVE, SHALLOW FOUNDATION- BOLT ON ATTACHMENT	EA	10.000
	0650- 1- 14	VEHICULAR TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 3 SECTION, 1 WAY	AS	42.000
	0650- 1- 18	VEHICULAR TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 5 SECTION STRAIGHT, 1 WAY	AS	16.000

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	0653- 1- 11	PEDESTRIAN SIGNAL, FURNISH & INSTALL LED COUNTDOWN, 1 WAY	AS	24.000
	0653- 1- 12	PEDESTRIAN SIGNAL, FURNISH & INSTALL LED COUNTDOWN, 2 WAYS	AS	4.000
	0660- 1-109	LOOP DETECTOR INDUCTIVE, F&I, TYPE 9	EA	28.000
	0660- 2-101	LOOP ASSEMBLY- F&I, TYPE A	AS	42.000
	0665- 1- 11	PEDESTRIAN DETECTOR, FURNISH & INSTALL, STANDARD	EA	24.000
	0670- 5-120	TRAFFIC CONTROLLER ASSEMBLY, F&I, 170	AS	4.000
	0670- 5-600	TRAFFIC CONTROLLER ASSEMBLY, REMOVE CONTROLLER WITH CABINET	AS	4.000
	0700- 3-201	SIGN PANEL, FURNISH & INSTALL OVERHEAD MOUNT, UP TO 12 SF	EA	18.000
	0700- 5- 22	INTERNALLY ILLUMINATED SIGN, FURNISH & INSTALL, OVERHEAD MOUNT, 12-18 SF	EA	16.000
	0700- 12- 31	SIGN BEACON, F&I OVERHEAD MOUNT, ONE BEACON	AS	4.000
Section 0005 Landscape / Peripheral				
	0580- 1- 2	LANDSCAPE COMPLETE- LARGE PLANTS (43063715201)	LS	1.000
Section 0006 Utilities				
	0999- 25-	INITIAL CONTINGENCY AMOUNT, DO NOT BID (43063715601)	LS	1.000
	1050- 16-002	UTILITY PIPE,REMOVE & DISPOSE, 2-4.9"	LF	155.000
	1050- 16-003	UTILITY PIPE,REMOVE & DISPOSE, 5-7.9"	LF	310.000
	1050- 16-004	UTILITY PIPE,REMOVE & DISPOSE, 8-19.9"	LF	887.000
	1050- 18-002	UTILITY PIPE,PLUG & PLACE OUT OF SERVICE, 2- 4.9"	LF	552.000
	1050- 18-003	UTILITY PIPE,PLUG & PLACE OUT OF SERVICE, 5- 7.9"	LF	2,670.000
	1050- 18-004	UTILITY PIPE,PLUG & PLACE OUT OF SERVICE, 8-19.9"	LF	10,395.000
	1050- 31-206	UTILITY PIPE- POLY VINYL CHLORIDE, FURNISH & INSTALL, WATER/SEWER, 6"	LF	252.000
	1050- 31-208	UTILITY PIPE- POLY VINYL CHLORIDE, FURNISH & INSTALL, WATER/SEWER, 8"	LF	2,099.000
	1050- 31-210	UTILITY PIPE- POLY VINYL CHLORIDE, FURNISH & INSTALL, WATER/SEWER, 10"	LF	262.000
	1050- 41-201	UTILITY PIPE- POLYETHYLENE, FURNISH & INSTALL, WATER/SEWER, 1"	LF	3,040.000
	1050- 41-202	UTILITY PIPE- POLYETHYLENE, FURNISH & INSTALL, WATER/SEWER, 2"	LF	70.000
	1050- 51-204	UTILITY PIPE- DUCTILE IRON/CAST IRON, FURNISH & INSTALL, WATER/SEWER, 4"	LF	228.000
	1050- 51-206	UTILITY PIPE- DUCTILE IRON/CAST IRON, FURNISH & INSTALL, WATER/SEWER, 6"	LF	937.000
	1050- 51-208	UTILITY PIPE- DUCTILE IRON/CAST IRON, FURNISH & INSTALL, WATER/SEWER, 8"	LF	3,385.000
	1050- 51-210	UTILITY PIPE- DUCTILE IRON/CAST IRON, FURNISH & INSTALL, WATER/SEWER, 10"	LF	127.000
	1050- 51-212	UTILITY PIPE- DUCTILE IRON/CAST IRON, FURNISH & INSTALL, WATER/SEWER, 12"	LF	860.000
	1050- 51-216	UTILITY PIPE- DUCTILE IRON/CAST IRON, FURNISH & INSTALL, WATER/SEWER, 16"	LF	7,288.000
	1055- 51-108	UTILITY FITTINGS, DUCTILE IRON/CAST IRON, FURNISH & INSTALL ELBOW, 8"	EA	148.000
	1055- 51-110	UTILITY FITTINGS, DUCTILE IRON/CAST IRON, FURNISH & INSTALL ELBOW, 10"	EA	11.000

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	1055- 51-112	UTILITY FITTINGS, DUCTILE IRON/CAST IRON, FURNISH & INSTALL ELBOW, 12"	EA	13.000
	1055- 51-116	UTILITY FITTINGS, DUCTILE IRON/CAST IRON, FURNISH & INSTALL ELBOW, 16"	EA	88.000
	1055- 51-208	UTILITY FITTINGS, DUCTILE IRON/CAST IRON, FURNISH & INSTALL TEE, 8"	EA	19.000
	1055- 51-212	UTILITY FITTINGS, DUCTILE IRON/CAST IRON, FURNISH & INSTALL TEE, 12"	EA	5.000
	1055- 51-216	UTILITY FITTINGS, DUCTILE IRON/CAST IRON, FURNISH & INSTALL TEE, 16"	EA	43.000
	1055- 51-308	UTILITY FITTINGS, DUCTILE IRON/CAST IRON, FURNISH & INSTALL REDUCER, 8"	EA	8.000
	1055- 51-508	UTILITY FITTINGS, DUCTILE IRON/CAST IRON, FURNISH & INSTALL, CAP/PLUG, 8"	EA	29.000
	1055- 51-510	UTILITY FITTINGS, DUCTILE IRON/CAST IRON, FURNISH & INSTALL, CAP/PLUG, 10"	EA	2.000
	1055- 51-512	UTILITY FITTINGS, DUCTILE IRON/CAST IRON, FURNISH & INSTALL, CAP/PLUG, 12"	EA	3.000
	1055- 51-516	UTILITY FITTINGS, DUCTILE IRON/CAST IRON, FURNISH & INSTALL, CAP/PLUG, 16"	EA	3.000
	1060- 11-211	UTILITY STRUCTURE, BELOW GROUND, F&I, WATER/SEWER, 0 - 80 FT3, 0 - 6'	EA	5.000
	1060- 11-212	UTILITY STRUCTURE, BELOW GROUND, F&I, WATER/SEWER, 0 - 80 FT3, 6.1 - 12'	EA	1.000
	1060- 11-222	UTILITY STRUCTURE, BELOW GROUND, F&I, WATER / SEWER > 80 FT3, 6.1 - 12'	EA	5.000
	1060- 15-	UTILITY STRUCTURE, BELOW GROUND, ADJUST/MODIFY	EA	62.000
	1060- 16-	UTILITY STRUCTURE, BELOW GROUND, REMOVE&DISPOSE CONTRACTOR TAKES OWNERSHIP	EA	4.000
	1070- 1- 1	UTILITY AUXILIARY ITEMS, 8" CONCRETE SLAB FOR GROUND COVER LESS THAN 2.5'	SF	1,889.000
	1080- 21-101	UTILITY FIXTURE, VALVE/METER BOX, FURNISH & INSTALL, 1.5"	EA	75.000
	1080- 21-102	UTILITY FIXTURE, VALVE/METER BOX, FURNISH & INSTALL, 2"	EA	1.000
	1080- 21-110	UTILITY FIXTURE, VALVE/METER BOX, FURNISH & INSTALL, 10"	EA	1.000
	1080- 21-500	UTILITY FIXTURE, VALVE/METER BOX, ADJUST	EA	61.000
	1080- 21-600	UTILITY FIXTURE, VALVE/METER BOX, REMOVE	EA	71.000
	1080- 23-104	UTILITY FIXTURE- TAPPING SADDLE/SLEEVE, FURNISH & INSTALL, 4"	EA	7.000
	1080- 23-106	UTILITY FIXTURE- TAPPING SADDLE/SLEEVE, FURNISH & INSTALL, 6"	EA	9.000
	1080- 23-108	UTILITY FIXTURE- TAPPING SADDLE/SLEEVE, FURNISH & INSTALL, 8"	EA	16.000
	1080- 23-110	UTILITY FIXTURE- TAPPING SADDLE/SLEEVE, FURNISH & INSTALL, 10"	EA	3.000
	1080- 23-112	UTILITY FIXTURE- TAPPING SADDLE/SLEEVE, FURNISH & INSTALL, 12"	EA	2.000
	1080- 23-116	UTILITY FIXTURE- TAPPING SADDLE/SLEEVE, FURNISH & INSTALL, 16"	EA	8.000
	1080- 24-104	UTILITY FIXTURE, VALVE ASSEMBLY, FURNISH AND INSTALL, 4"	EA	7.000
	1080- 24-106	UTILITY FIXTURE, VALVE ASSEMBLY, FURNISH AND INSTALL, 6"	EA	35.000
	1080- 24-108	UTILITY FIXTURE, VALVE ASSEMBLY, FURNISH AND INSTALL, 8"	EA	41.000
	1080- 24-110	UTILITY FIXTURE, VALVE ASSEMBLY, FURNISH AND INSTALL, 10"	EA	3.000

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ALT	Item	Description	Unit	Quantity
	1080- 24-112	UTILITY FIXTURE, VALVE ASSEMBLY, FURNISH AND INSTALL, 12"	EA	3.000
	1080- 24-116	UTILITY FIXTURE, VALVE ASSEMBLY, FURNISH AND INSTALL, 16"	EA	24.000
	1080- 26-102	UTILITY FIXTURE, VAC/AIR ASSEMBLY, FURNISH & INSTALL 2"	EA	43.000
	1080- 33-108	UTILITY FIXTURE, PLUG VALVE, FURNISH AND INSTALL 8"	EA	10.000
	1501- 1-	LIFT STATION, SANITARY SEWER	EA	2.000
	1644-113- 08	FIRE HYDRANT, F&I, STANDARD, 2 HOSE, 1PUMPER, 6"	EA	24.000
	1644-900-	FIRE HYDRANT, REMOVE	EA	15.000