

EXAMPLE 1
CITY OF MYTOWN
Federal Aid Project STP 9999-99(999)/999999-701000
Park Avenue Widening

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT
PARTICIPATING ITEMS:					
EARTHWORK ITEMS					
201-A001	Clearing & Grubbing	100%	LS	\$75,000.00	\$75,000.00
202-A001	Removal of Obstructions	100%	LS	\$10,000.00	\$10,000.00
202-B003	Removal of Pipe (8" and Above)	779	LF	\$8.00	\$6,232.00
202-B005	Removal of Asphalt Pavement (All Thicknesses)	6,586	SY	\$4.50	\$29,637.00
202-B030	Removal of Concrete Pavement (All Thicknesses)	120	SY	\$20.00	\$2,400.00
203-A002	Unclassified Excavation (FM)(AH)	7,314	CY	\$6.00	\$43,884.00
203-D001	Muck Excavation (LVM)(AH) (Undercut for Box Culvert)	7,229	CY	\$5.00	\$36,145.00
203-EX018	Borrow Excavation (FME)(AH)(Class B-9)(Contractor Furnished)	2,352	CY	\$5.50	\$12,936.00
203-G004	Excess Excavation (LVM) (AH)	9,874	CY	\$5.00	\$49,370.00
206-A001	Structure Excavation	3,651	CY	\$6.00	\$21,906.00
206-B001	Select Material for Undercuts (FM)(CF) (Box Culvert)	7,229	CY	\$15.00	\$108,435.00
907-815-E001	Geotextile Fabric Under Roadway (Type VII)	9,324	SY	\$2.00	\$18,648.00
	Subtotal Earthwork Items				\$414,593.00
ROADSIDE DEVELOPMENT ITEMS					
213-B001	Combination Fertilizer (13-13-13)	0.24	TN	\$1,500.00	\$360.00
214-A002	Seeding (Bermudagrass)	0.94	AC	\$1,000.00	\$940.00
215-A001	Vegetative Materials for Mulch	0.94	TN	\$300.00	\$282.00
216-A001	Solid Sodding	1,596	SY	\$3.00	\$4,788.00
234-A001	Temporary Silt Fence	2,590	LF	\$4.50	\$11,655.00
235-A001	Temporary Erosion Checks	84	BALE	\$10.00	\$840.00
	Subtotal Roadside Development Items				\$18,865.00
SUBBASE AND BASE ITEMS					
907-403-A001	Hot Mix Asphalt MT (19 mm)	6,524	TN	\$45.00	\$293,580.00
304-A002	Granular Material (Class 5, Group C) (LVM)	196	CY	\$16.00	\$3,136.00
	Subtotal Subbase & Base Items				\$296,716.00
BITUMINOUS PAVING ITEMS					
907-403-A001	Hot Mix Asphalt MT (9.5mm)	1,608	TN	\$45.00	\$72,360.00
	Subtotal Bituminous Paving Items				\$72,360.00
DRAINAGE ITEMS					
601-B003	Class "B" Struct. Concrete (Minor Structures) (Junction Box)	30.15	CY	\$1,200.00	\$36,180.00
602-A002	Reinforcing Steel (Junction Box)	2,707	LBS	\$0.60	\$1,624.20
603-CA002	18" Reinforced Concrete Pipe, Class III	162	LF	\$32.00	\$5,184.00
603-CA003	21" Reinforced Concrete Pipe, Class III	171	LF	\$40.00	\$6,840.00
603-CA004	24" Reinforced Concrete Pipe, Class III	28	LF	\$45.00	\$1,260.00
603-CE001	22" x 13" Reinforced Concrete Arch Pipe, Class III	135	LF	\$45.00	\$6,075.00

EXAMPLE 1**CITY OF MYTOWN****Federal Aid Project STP 9999-99(999)/999999-701000*****Park Avenue Widening***

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT
603-CE005	44' x 27" Reinforced Concrete Arch Pipe, Class III	8	LF	\$85.00	\$680.00
603-CE006	58" x 36" Reinforced Concrete Arch Pipe, Class III	64	LF	\$130.00	\$8,320.00
603-CB004	24" Reinforced Concrete Pipe End Section, Class III	1	EA	\$510.00	\$510.00
603-CF006	44' x 27" Reinforced Concrete Arch Pipe End Section, Class III	1	EA	\$1,100.00	\$1,100.00
603-CF007	58" x 36" Reinforced Concrete Arch Pipe End Section, Class III	1	EA	\$1,500.00	\$1,500.00
603-SB001	Branch Connection	8	EA	\$600.00	\$4,800.00
604-A001	Casting	792	LBS	\$2.50	\$1,980.00
604-B001	Grating	4,050	LBS	\$2.50	\$10,125.00
608-B001	Concrete Sidewalk with Reinforcement	293	SY	\$35.00	\$10,255.00
609-D002	Combination Concrete Cub & Gutter (Type 3B) (Modified)	2,201	LF	\$15.00	\$33,015.00
613-B001	Adjustment of Manhole Castings	5	EA	\$560.00	\$2,800.00
614-A001	Concrete Driveway Pavement	390	SY	\$40.00	\$15,600.00
614-B001	Concrete Driveway (Ramps) (With Reinforcement)	34	SY	\$35.00	\$1,190.00
	Subtotal Drainage Paving Items				\$149,038.20

INCIDENTAL CONSTRUCTION ITEMS

618-A001	Maintenance of Traffic	100%	LS	\$100,000.00	\$100,000.00
618-B001	Additional Construction Signs	0	SF	\$10.00	\$0.00
620-A001	Mobilization	100%	LS	\$150,000.00	\$150,000.00
907-699-A001	Roadway Construction Stakes	100%	LS	\$40,000.00	\$40,000.00
	Subtotal Incidental Construction Items				\$290,000.00

PAVEMENT MARKING ITEMS

907-626-A003	6" Thermoplastic Traffic Stripe (Skip White)	0.700	MI	\$7,000.00	\$4,900.00
907-626-B004	6" Thermoplastic Traffic Stripe (Continuous White)	0.030	MI	\$7,000.00	\$210.00
907-626-C004	6" Thermoplastic Edge Stripe (Continuous White)	0.870	MI	\$7,000.00	\$6,090.00
907-626-E003	6" Thermoplastic Traffic Stripe (Continuous Yellow)	0.715	MI	\$7,000.00	\$5,005.00
907-626-G004	Thermoplastic Detail Stripe (White)	520	LF	\$3.00	\$1,560.00
907-626-H005	Thermoplastic Legend (White)	645.5	SF	\$6.00	\$3,873.00
627-K001	Red-Clear Reflective High Performance Raised Markers	115	EA	\$7.00	\$805.00
627-L001	Two-Way Yellow Reflective High Performance Raised Markers	187	EA	\$6.50	\$1,215.50
630-A001	Standard Roadside Signs, Sheet Aluminum, 0.080" Thickness	66	SF	\$30.00	\$1,980.00

EXAMPLE 1**CITY OF MYTOWN****Federal Aid Project STP 9999-99(999)/999999-701000*****Park Avenue Widening***

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT
630-K001	Welded & Seamless Steel Pipe Posts (3" Diameter)	108	LF	\$30.00	\$3,240.00
	Subtotal Pavement Marking Items				\$28,878.50

ALTERNATE ITEMS

ALTERNATE "A"

603-PA002	8' x 4' Precast Concrete Box Culvert	1,165	LF	\$400.00	\$466,000.00
603-PA014	4' x 4' Precast Concrete Box Culvert	67	LF	\$250.00	\$16,750.00
603-PB012	4' x 4' Precast Concrete Box Culvert End Section	1	EA	\$2,000.00	\$2,000.00
	Subtotal Alternate "A"				\$484,750.00

NON-PARTICIPATING ITEMS:

SEWER ITEMS

202-B005	Removal of Asphalt Pavement (All Depths)	48.5	SY	\$15.00	\$727.50
206-A001	Structure Excavation	411	CY	\$7.00	\$2,877.00
907-403-A012	Hot Mix Asphalt (ST) (19 mm)	16	TN	\$50.00	\$800.00
907-403-A015	Hot Mix Asphalt (ST) (9.5 mm)	8	TN	\$50.00	\$400.00
907-261-E	8" Sanitary Sewer Main(6-8)	233	LF	\$14.00	\$3,262.00
907-261-F	8" Sanitary Sewer Main (8-10)	13	LF	\$16.00	\$208.00
907-261-G	8" D.I.P. Sanitary Sewer Main (10-12)	87	LF	\$18.00	\$1,566.00
907-261-H	10" D.I.P. Sanitary Sewer Main (6-8)	115	LF	\$30.00	\$3,450.00
907-261-I	6" D.I.P. Sewer Service Line	40	LF	\$25.00	\$1,000.00
907-261-J	6" PVC Sewer Service Line	300	LF	\$10.00	\$3,000.00
907-261-K	8" x 6" Service Tee	4	EA	\$80.00	\$320.00
907-261-L	4' Standard Manhole (6-8)	2	EA	\$2,500.00	\$5,000.00
907-261-M	4' Cut-In Manhole (6-8)	1	EA	\$4,500.00	\$4,500.00
907-261-N	4' Cut-In Manhole (10-12)	1	EA	\$4,800.00	\$4,800.00
907-261-O	4' Drop Manhole (8-10)	2	EA	\$4,600.00	\$9,200.00
907-261-P	Connect to Existing Manhole	3	EA	\$300.00	\$900.00
907-261-Q	6" x 45° Bend	6	EA	\$30.00	\$180.00
	Subtotal Sewer Items				\$42,190.50

WATER ITEMS

202-B005	Removal of Asphalt Pavement (All Depths)	307	SY	\$15.00	\$4,605.00
206-A001	Structure Excavation	590	CY	\$7.00	\$4,130.00
907-403-A012	Hot Mix Asphalt (ST) (19 mm)	102	TN	\$50.00	\$5,100.00
907-403-A015	Hot Mix Asphalt (ST) (9.5 mm)	51	TN	\$50.00	\$2,550.00
907-265-E	10" PVC Water Main (C-900, Class 150)	1,163	LF	\$20.00	\$23,260.00
907-265-F	6" PVC Water Main	190	LF	\$12.00	\$2,280.00
907-265-G	2" PVC Water Main	34	LF	\$5.00	\$170.00
907-265-H	1-1/2" PVC Water Main	25	LF	\$5.00	\$125.00
907-265-I	3/4" Service Tubing	705	LF	\$6.00	\$4,230.00
907-265-J	12" Steel Casing (Open Cut)	180	LF	\$65.00	\$11,700.00

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907-265-K	2" Steel Casing (Open Cut)	480	LF	\$40.00	\$19,200.00
907-265-L	Ductile Iron Fittings	3,095	LBS	\$2.00	\$6,190.00
907-265-M	10" Gate Valve & Box	3	EA	\$900.00	\$2,700.00

907-265-N	6" Gate Valve & Box	2	EA	\$600.00	\$1,200.00
907-265-O	2" Gate Valve & Box	2	EA	\$400.00	\$800.00
907-265-P	1-1/2" Gate Valve & Box	1	EA	\$400.00	\$400.00
907-265-Q	Plug Existing 8" Water Main	2	EA	\$300.00	\$600.00
907-265-R	Service Assemblies	13	EA	\$225.00	\$2,925.00
907-265-S	Fire Hydrant Assembly	3	EA	\$2,100.00	\$6,300.00
907-265-T	Fire Hydrant Extensions (3 Feet)	3	EA	\$300.00	\$900.00
907-265-U	Connect to Existing 10" Water Main	1	EA	\$500.00	\$500.00
907-265-V	Connect to Existing 8" Water Main	1	EA	\$500.00	\$500.00
907-265-W	Connect to Existing 2" Water Main	4	EA	\$250.00	\$1,000.00
907-265-X	Connect to Existing 1-1/2" Water Main	1	EA	\$250.00	\$250.00
907-265-Y	Connect to Existing Service Line	13	EA	\$30.00	\$390.00
907-265-Z	Water Meter & Box	13	EA	\$300.00	\$3,900.00
	Subtotal Water Items				<u>\$105,905.00</u>

RECAP OF ITEMS

Participating:

Subtotal Earthwork Items	\$414,593.00
Subtotal Roadside Development Items	\$18,865.00
Subtotal Subbase & Base Items	\$296,716.00
Subtotal Bituminous Paving Items	\$72,360.00
Subtotal Drainage Items	\$149,038.20
Subtotal Incidental Construction Items	\$290,000.00
Subtotal Pavement Marking Items	\$28,878.50
Subtotal Alternate "A" Items	\$484,750.00
Total Participating+ Alternate "A"	\$1,755,200.70

Non-Participating:

Subtotal Sewer Items	\$42,190.50
Subtotal Water Items	<u>\$105,905.00</u>
Total Non-Participating	\$148,095.50

TOTAL ESTIMATE + ALTERNATE "A" \$1,903,296.20

John Q. Engineer, P.E.

EXAMPLE 2**CITY OF MYTOWN****Federal Aid Project No. STP-9999-99(999)/999999-701000****PARK AVENUE @ BOARDWALK IMPROVEMENTS**

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT
<u>PARTICIPATING ITEMS:</u>					
EARTHWORK ITEMS					
201-A001	Clearing & Grubbing	100%	LS	\$50,000.00	\$50,000.00
202-A001	Removal of Obstructions	100%	LS	\$10,000.00	\$10,000.00
202-B	Removal of Water Meter	1	EACH	\$200.00	\$200.00
202-F	Relocate Water Meters	2	EACH	\$500.00	\$1,000.00
202-B	Removal of Water Valve Pit	1	EACH	\$225.00	\$225.00
202-B	Removal of Grate Inlet	2	EACH	\$275.00	\$550.00
202-B064	Removal of Pipe (8" and Above)	1,285	L..F.	\$12.00	\$15,420.00
202-B005	Removal of Asphalt Pavement (All Depths)	14,540	S.Y.	\$3.00	\$43,620.00
202-B030	Removal of Concrete Pavement (All Depths)	602	S.Y.	\$4.50	\$2,709.00
202-B093	Removal of Curb and Gutter (All Types)	858	L.F.	\$3.50	\$3,003.00
203-A004	Unclassified Excavation (LVM)(AH)	2,667	CY	\$3.00	\$8,001.00
203-D002	Muck Excavation (LVM)	16,000	C.Y.	\$3.00	\$48,000.00
203-EX018	Borrow Excavation (LVM)(AH)(Class B9)	26,204	C.Y.	\$7.00	\$183,428.00
203-F002	Channel Excavation (LVM)	430	C.Y.	\$5.00	\$2,150.00
203-G004	Excess Excavation (LVM)(AH)	11,406	C.Y.	\$5.00	\$57,030.00
206-A001	Structure Excavation	3,808	C.Y.	\$10.00	\$38,080.00
206-B001	Select Material for Undercuts (Contractor Furnished)(FM)	2,000	C.Y.	\$11.00	\$22,000.00
209-A001	Geotextile Stabilization (Type V)	70	S.Y.	\$3.00	\$210.00
	Subtotal Earthwork Items				\$485,626.00
ROADSIDE DEVELOPMENT ITEMS					
213-B001	Combination Fertilizer (130-13-13)	1	TN	\$800.00	\$800.00
214-A002	Seeding (Bermudagrass)	4.0	AC	\$1,200.00	\$4,800.00
214-A003	Seeding (Tall Fescue)	4.0	AC	\$1,200.00	\$4,800.00
215-A001	Vegetative Materials for Mulch	4.0	AC	\$600.00	\$2,400.00
216-A001	Solid Sodding	1,540	SY	\$4.00	\$6,160.00
217-A001	Ditch Liner	637	SY	\$2.50	\$1,592.50
221-A001	Portland Cement Paved Ditch	2.0	CY	\$180.00	\$360.00
234-A001	Temporary Silt Fence	6,988	LF	\$3.25	\$22,711.00
235-A001	Temporary Erosion Checks	528	BALE	\$6.00	\$3,168.00
	Subtotal Roadside Development Items				\$46,791.50
SUBBASE AND BASE ITEMS					
907-403-A013	Hot Mix Asphalt (ST) (25mm)	6,303	TN	\$35.00	\$220,605.00
304-A013	Granular Material, LVM (Class 3, Group C)	9,498	CY	\$6.25	\$59,362.50
605-W001	Filter Material for Comb. Storm Drain and/or Underdrains, Type A, FM	700	CY	\$10.00	\$7,000.00
605-W002	Filter Material for Comb. Storm Drain and/or Underdrains, Type B, FM	2,106	CY	\$10.00	\$21,060.00
	Subtotal Subbase & Base Items				\$308,027.50

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ITEM NO.	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT
BITUMINOUS PAVING ITEMS					
907-403-A011	Hot Mix Asphalt (ST) (12.5mm)	5,890	TN	\$40.00	\$235,600.00
408-A003	Asphalt for Prime Coat (Cut-Back MC-70) OR (Emulsified EA-1)	9,192	GAL	\$1.00	\$9,192.00
	Subtotal Bituminous Paving Items				\$244,792.00
CONCRETE PAVING ITEMS					
614-B001	Concrete Driveway (With Reinforcement)	760	SY	\$42.00	\$31,920.00
	Subtotal Concrete Paving Items				\$31,920.00
DRAINAGE ITEMS					
907-601-B003	Class "B" Structural Concrete (Minor Structures)	83.0	CY	\$920.00	\$76,360.00
602-A001	Reinforcing Steel	8,497	LB	\$0.75	\$6,372.75
603-CA001	15" Reinforced Concrete Pipe, Class III	900	LF	\$25.00	\$22,500.00
603-CA002	18" Reinforced Concrete Pipe, Class III	631	LF	\$30.00	\$18,930.00
603-CA	21" Reinforced Concrete Pipe, Class III	200	LF	\$40.00	\$8,000.00
603-CA003	24" Reinforced Concrete Pipe, Class III	816	LF	\$43.00	\$35,088.00
603-CA004	30" Reinforced Concrete Pipe, Class III	288	LF	\$55.00	\$15,840.00
603-CA005	36" Reinforced Concrete Pipe, Class III	338	LF	\$70.00	\$23,660.00
603-CA006	42" Reinforced Concrete Pipe, Class III	482	LF	\$110.00	\$53,020.00
603-CA008	54" Reinforced Concrete Pipe, Class III	96	LF	\$140.00	\$13,440.00
603-CB014	15" Reinforced Concrete End Section	4	EA	\$500.00	\$2,000.00
603-CB001	18" Reinforced Concrete End Section	1	EA	\$450.00	\$450.00
603-CB004	36" Reinforced Concrete End Section	2	EA	\$1,000.00	\$2,000.00
603-CB005	42" Reinforced Concrete End Section	1	EA	\$1,300.00	\$1,300.00
603-CB007	54" Reinforced Concrete End Section	4	EA	\$1,600.00	\$6,400.00
603-CE	11" x 18" Reinforced Concrete Arch Pipe, Class A III	245	LF	\$40.00	\$9,800.00
603-CE002	29" x 18" Reinforced Concrete Arch Pipe, Class A III	68	LF	\$50.00	\$3,400.00
603-SB	Branch Connection	1	EA	\$250.00	\$250.00
604-A001	Castings	6,192	LB	\$3.00	\$18,576.00
604-B001	Gratings	5,796	LB	\$2.75	\$15,939.00
609-B001	Concrete Curb, Header	258	LF	\$8.00	\$2,064.00
609-D009	Combination Concrete Curb & Gutter (Type 3B)	4,890	LF	\$15.00	\$73,350.00
609-D002	Combination Concrete Curb & Gutter (Type 2)	200	LF	\$12.00	\$2,400.00
613-A001	Adjustment of Castings, Gratings & Utility Appurtenances	4	EA	\$175.00	\$700.00
616-A001	Concrete Median and/or Island pavement (4")	151	SY	\$40.00	\$6,040.00
616-A003	Concrete Median and/or Island pavement (10")	29	SY	\$40.00	\$1,160.00
605-AA003	Geotextile for Subsurface Drainage (Type III)	5,547	SY	\$3.00	\$16,641.00
	Subtotal Drainage Items				\$435,680.75
INCIDENTAL CONSTRUCTION ITEMS					
618-A001	Maintenance of Traffic	100%	LS	\$150,000.00	\$150,000.00
	Subtotal Incidental Construction Items				\$150,000.00

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ITEM NO.	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT
PAVEMENT MARKING ITEMS					
907-626-A002	4" Thermoplastic Traffic Stripe (Skip White)	1.0	MI	\$1,200.00	\$1,200.00
907-626-B002	4" Thermoplastic Traffic Stripe (Continuous White)	1.0	MI	\$1,200.00	\$1,200.00
907-626-C002	4" Thermoplastic Edge Stripe (Continuous White)	1.0	MI	\$1,000.00	\$1,000.00
907-626-D002	4" Thermoplastic Traffic Stripe (Skip Yellow)	1.0	MI	\$1,000.00	\$1,000.00
907-626-E001	4" Thermoplastic Traffic Stripe (Continuous Yellow)	4,150	LF	\$0.50	\$2,075.00
907-626-G002	Thermoplastic Detail Stripe (4" Equiv. Length)(White)	2,403	LF	\$1.15	\$2,763.45
907-626-G003	Thermoplastic Detail Stripe (4" Equiv. Length)(Yellow)	7,472	LF	\$1.15	\$8,592.80
907-626-H005	Thermoplastic Legend (White)	1,061	SF	\$7.50	\$7,957.50
627-K001	Red-Clear Reflective High Performance Raised markers	435	EA	\$10.00	\$4,350.00
627-L001	Two-Way Yellow Reflective High Performance Raised Markers	244	EA	\$10.00	\$2,440.00
627-M001	One-Way Clear Reflective High Performance Raised Markers	30	EA	\$10.00	\$300.00
907-630-PP	Reflectorized Traffic Warning Sign (Encapsulated Lens)	10	EA	\$110.00	\$1,100.00
907-630-PP	Reflectorized RR Crossing (Cross Buck) Sign (Encapsulated Lens)	2	EA	\$120.00	\$240.00
	Subtotal Pavement Marking Items				\$34,218.75
TRAFFIC SIGNAL AND DELINEATORS					
635-A001	Vehicle Loop Assembly	1,192	LF	\$10.00	\$11,920.00
636-A002	Shielded Cable	3,320	LF	\$2.25	\$7,470.00
638-A005	Loop Detector Amplifier, Card Rack Mounted (4 Channel)	3	EA	\$1,100.00	\$3,300.00
639-A004	Traffic Signal Equipment Pole (Type II)	4	EA	\$17,000.00	\$68,000.00
640-A001	Traffic Signal Head (Type 1)	4	EA	\$800.00	\$3,200.00
640-A013	Traffic Signal Head (Type 7)	4	EA	\$1,000.00	\$4,000.00
642-A008	Solid State Traffic Actuated Controller - Type 8A	1	EA	\$11,000.00	\$11,000.00
647-A001	Pullboxes (Type 1)	3	EA	\$750.00	\$2,250.00
647-A005	Pullboxes (Type 2)	5	EA	\$900.00	\$4,500.00

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666-B021	Electric Cable (U'dgrnd in Conduit)(IMSA 20-1)(AWG#6)(2 Conductor)	30	LF	\$11.00	\$330.00

666-B014	Electric Cable (U'drgrnd in Conduit)(IMSA 20-1)(AWG#14)(4 Conductor)	528	LF	\$13.00	\$6,864.00
666-B016	Electric Cable (U'drgrnd in Conduit)(IMSA 20-1)(AWG#14)(7 Conductor)	738	LF	\$15.00	\$11,070.00
668-A016	Traffic Signal Conduit (U'drgrnd)(Type 4)(1" Diameter)	525	LF	\$4.00	\$2,100.00
668-A018	Traffic Signal Conduit (U'drgrnd)(Type 4)(2" Diameter)	275	LF	\$6.00	\$1,650.00
668-B006	Traffic Signal Conduit (U'drgrnd)(Drilled or Jacked)(Type 1)(2" Dia.)	405	LF	\$30.00	\$12,150.00
668-B008	Traffic Signal Conduit (U'drgrnd)(Drilled or Jacked)(Type 1)(3" Dia.)	115	LF	\$30.00	\$3,450.00
	Subtotal Traffic Signal and Delineator Items				\$153,254.00

RIPRAP AND SLOPE PAVING ITEMS

815-A003	Loose Riprap (Size 200)	34	SY	\$40.00	\$1,360.00
	Subtotal Traffic Signal and Delineator Items				\$1,360.00

ROADWAY CONSTRUCTION STAKES

699-A001	Roadway Construction Stakes	100%	LS	\$10,000.00	\$10,000.00
	Subtotal Roadway Construction Stakes				\$10,000.00

NON-PARTICIPATING ITEMS:

SEWER ITEMS

907-261-A	Cut In Manhole (6'-8')	1	EA	\$500.00	\$500.00
907-261-B	4' Standard Manhole (0'-6')	2	EA	\$1,500.00	\$3,000.00
907-261-C	8" Sewer Main (0'-6')	117	LF	\$25.00	\$2,925.00
907-261-D	Connect Existing Service to Manhole	1	EA	\$250.00	\$250.00
					\$6,675.00

WATER ITEMS

907-265-A	12" PVC Water Main	553	LF	\$17.00	\$9,401.00
907-265-B	8" PVC Water Main	1,544	LF	\$10.00	\$15,440.00
907-265-C	6" PVC Water Main	200	LF	\$9.00	\$1,800.00
907-265-D	3" PVC Water Main	178	LF	\$5.00	\$890.00
907-265-E	2" PVC Water Main	200	LF	\$4.00	\$800.00
907-265-F	24" Split Steel Casing	66	LF	\$200.00	\$13,200.00
907-265-G	16" Steel Casing	90	LF	\$80.00	\$7,200.00
907-265-H	12" Steel Casing	75	LF	\$70.00	\$5,250.00
907-265-I	6" Steel Casing	225	LF	\$58.00	\$13,050.00
907-265-J	Ductile Iron Fittings	5,110	LB	\$3.25	\$16,607.50
907-265-K	Connect to Existing Water Main	5	LF	\$500.00	\$2,500.00
907-265-L	6" Gate Valve & Box	4	EA	\$550.00	\$2,200.00
907-265-M	8" Gate Valve & Box	2	EA	\$850.00	\$1,700.00
907-265-N	Remove Existing Water Valve Pit	1	EA	\$250.00	\$250.00
907-265-O	6" Fire Hydrant	3	EA	\$550.00	\$1,650.00
907-265-P	8" Tapping Tee and Valve	1	EA	\$2,000.00	\$2,000.00
907-265-Q	12" Tapping Tee & Valve	1	EA	\$3,000.00	\$3,000.00
907-265-R	12" Tapping Tee & Valve	1	EA	\$1,500.00	\$1,500.00

EXAMPLE 2

CITY OF MYTOWN

Federal Aid Project No. STP-9999-99(999)/999999-701000

PARK AVENUE @ BOARDWALK IMPROVEMENTS

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT
907-265-S	Water Meter	1	EA	\$400.00	\$400.00

907-265-T	Removal of Fire Hydrant	1	EA	\$275.00	\$275.00
907-265-U	Plug Existing 8" Water Main	2	EA	\$250.00	\$500.00
907-265-V	Relocate Existing 6" Water Valve	1	EA	\$500.00	\$500.00
907-265-W	Relocate Existing Fire Hydrant	1	EA	\$500.00	\$500.00
907-265-X	Remove and Replace 12" Water Main	190	LF	\$40.00	\$7,600.00
907-265-Y	Relocate Existing 12" Gate Valve	1	EA	\$500.00	\$500.00
907-265-Z	Disconnection & Connection to Existing 12" Main Line	6	EA	\$2,000.00	\$12,000.00
907-265-AA	Connect Existing Service to Water Main	3	EA	\$500.00	\$1,500.00
	Subtotal Water Items				<u>\$122,213.50</u>

RECAP OF ITEMS

Participating:

Subtotal Earthwork Items	\$485,626.00
Subtotal Roadside Development Items	\$46,791.50
Subtotal Subbase & Base Items	\$308,027.50
Subtotal Bituminous Paving Items	\$244,792.00
Subtotal Concrete Paving Items	\$31,920.00
Subtotal Drainage Items	\$435,680.75
Subtotal Incidental Construction Items	\$150,000.00
Subtotal Marking Items	\$34,218.75
Subtotal Traffic Signal & Delineator Items	\$153,254.00
Subtotal Riprap and Slope Paving Items	\$1,360.00
Subtotal Roadway Construction Stakes Item	\$10,000.00
Subtotal Participating	<u>\$1,901,670.50</u>

Non-Participating:

Subtotal Sewer Items	\$6,675.00
Subtotal Water Items	<u>\$122,213.50</u>
Subtotal Non- Participating	\$122,213.50

TOTAL BID \$2,023,884.00

John Q. Engineer, P.E.