



V I L L A G E O F K E Y B I S C A Y N E

Office of the Village Manager

MEMORANDUM

Village Council
Robert L. Vernon, *Mayor*
Enrique Garcia, *Vice Mayor*
Michael W. Davey
Robert Gusman
Michael E. Kelly
Jorge E. Mendia
Thomas Thornton

DATE: March 9, 2010
TO: Honorable Mayor and Members of the Village Council
FROM: Genaro "Chip" Iglesias, Village Manager
RE: FY2010 Capital Improvement Plan "CIP"

Village Manager
Genaro "Chip" Iglesias

At the December 8th, 2009 Council Meeting, Council approved the Capital Improvement Plan for Fiscal Year 2010 and requested for certain projects to be brought back for public discussion.

The following projects were previously discussed by Council and additional information was requested. These projects are included in the CIP as placeholders until formal action is taken on each project. Additional projects will be brought forth for discussion at the April 13th Council Meeting. Attached please find the corresponding estimates for the projects listed below and the CIP list of projects approved for FY2010.

Exhibit	Project	Description	Cost
A	Village Green North and South Field Lighting	Permanent lighting	\$375,046
B	Lightning Detectors	Village Green/Pool	\$17,000
C	West Wood Drive Traffic Calming	Traffic Calming on West Wood Drive	\$222,543
TOTAL COST			\$621,543
D	FY 2009-10 Capital Improvement Plan		

EXHIBIT A



Quote

Tree Farm Park North
Key Biscayne, FL
Date: March 10, 2010
To: Todd Hofferberth
Pricing per Clay County Contract RFP# 08/09-3

Quotation Price-Materials and Turnkey Installation

Musco's Light Structure Green™ as described below and delivered to the job site \$176,066.

Equipment Description

Light Structure Green™ System delivered to your site in Five Easy Pieces™

- Pre-cast concrete bases
- Galvanized steel poles
- UL Listed remote electrical component enclosures
- Pole length wire harness
- Factory-aimed and assembled luminaires

Also Includes:

- Energy savings of more than 50% over a standard lighting system
- 50% less spill and glare light than Musco's prior industry leading technology
- Musco Constant 25™ warranty and maintenance program that eliminates 100% of your maintenance costs for 25 years, including labor and materials
- Guaranteed constant light level of 30 footcandles for 25 years, +/- 10% per IESNA RP-06-01
- 2 group re-lamp(s) at the end of the lamps' rated life, 5000 hours
- Control Link® Control & Monitoring System for flexible control and solid management of your lighting system
- Lighting Contactors sized for voltage and phase available at jobsite

Field Description	Quantity	Pricing Per Clay County	Extended Price
(Sect I) Soccer Field	1	\$69,700.00	\$69,700.00
(Sect II F) Adder for additional spill and glare	4	\$3,335.00	\$13,340.00
(Sect IIIA) Pole Installation 70'	4	\$3,795.00	\$15,180.00
(Sect II G) Freight	1	\$912.00	\$912.00
(Sect IVA) 200 amp service	1	\$11,040.00	\$11,040.00
(Sect IVB) Wiring from Panel to Contactors	4	\$100.00	\$400.00
(Sect IVB) Wiring from Contactors to Poles	1,800	\$34.00	\$61,200.00
(Sect IVB) Pull Boxes	4	\$460.00	\$1,840.00
(Sect IVB) Connect Pull Boxes	4	\$110.00	\$440.00
(Sect VD) Structural Drawings	1	\$1,150.00	\$1,150.00
(Sect VF) Project Management	1	\$5,750.00	\$5,750.00
Deducts:			
Design Variables			-\$4,886.00
Total			\$176,066.00

Sales tax is not included as part of this quote.

Pricing furnished is effective for 60 days unless otherwise noted and is considered confidential.

Payment Terms

Net 30 from invoice date

Late payment will be subject to service charges of 1 ½% per month (18% APR).

Musco will attempt to coordinate shipment so that delivery corresponds with the customer's payment schedule. It will be the responsibility of the wholesaler to ensure that Musco is aware of this delivery timeframe. We will expect payment within the terms described above unless there is a written statement from Musco's corporate headquarters stating the acceptance of different terms.

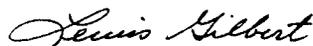
Delivery to the job site from the time of order, submittal approval, and confirmation of order details including voltage and phase, pole locations is approximately 30-45 days. Due to the built-in custom light control per luminaire, pole locations need to be confirmed prior to production. Changes to pole locations after the product is sent to production could result in additional charges.

Notes

Quote is based on:

- Shipment of entire project together to one location
- Field sizes of 240' X 185'
- Structural code and wind speed = 2007 FBC, 146 MPH 06-Sup HVHZ.
- Confirmation of pole locations prior to production

Thank you for considering Musco for your sports-lighting needs. Please contact me with any questions.



Lewis Gilbert
Sales Representative
Musco Sports Lighting, LLC
Phone: 954-727-8444
E-mail: lewis.gilbert@musco.com
Fax: 954-727-8445
Cell: 954-629-9235

**Light Structure Green™ Turnkey Scope of Work
Tree Farm Park North
Key Biscayne, FL Project #127590**

Owner Responsibilities:

1. Total access to the site and pole locations for construction. Must be able to move from location to location on standard rubber tires – no towing required.
2. Survey in pole locations and aiming points (one per field) for sighting in lighting cross-arms. Final grade elevations will also need marked if necessary.
3. Removal of any trees, limbs, etc. for total access to pole locations.
4. Removal, replacement, and repair of all fencing necessary for construction.
5. Repair and replacement of any field turf, asphalt, and /or concrete damage.
6. Locate existing underground utilities including irrigation systems.
7. Pay for all permitting costs as required.
8. Extra costs associated with foundation excavation and construction in non-standard soils (rock, caliche, high water table, collapsing holes, alluvial soils, etc.). Standard soils are defined as Class 5 soils in the 2007 edition of the Florida Building Code and can be excavated using standard earth auguring equipment.
9. Provide primary transformer to within 150' of site.
10. Provide a source of water such as a fire hydrant or 2" water line for foundation excavation.
11. Provide adequate trash container for cardboard waste.

Musco Responsibilities:

1. Provide required poles, fixtures, and foundations and associated designs.
2. Provide structural design for poles and foundations, certified by a professional engineer licensed in the State of Florida.
3. Provide layout of pole locations and aiming diagram.
4. Provide light test upon owner supplied electrical system.
5. Provide Project Management assistance as needed.
6. Provide review of electrical design as provided by Electrical Contractor or Electrical Engineer.

Musco Subcontractor Responsibilities:

1. Provide equipment and materials to off load equipment at jobsite per scheduled delivery.
2. Provide storage containers for material as necessary.
3. Provide adequate security to protect Musco delivered products from theft, vandalism or damage during the installation.
4. Provide electrical design by electrical engineer.
5. Obtain required permits, owner to pay cost of permits. Subcontractor to advise Musco of costs to subcontractor, if any, before proceeding with permitting.
6. Provide materials and equipment to install or upgrade existing electrical service panels as required or necessary. (This needs defined per Electrical design).
7. Provide materials and equipment to install all underground conduit, wiring, pull boxes etc. and terminate wiring as required per electrical design.
8. Confirm the existing underground utilities and irrigation systems have been located and are clearly marked so as to avoid damage from construction equipment. Repair any such damage during construction.
9. Provide materials and equipment to install (4) Light Structure System foundations as specified on Layout.

10. Provide and install ground rods (one per pole location) for lightning protection per NFPA 780 Code. Poles 70' and below require a #2 ground wire. Poles 80' and above require 2/0 ground wire. Ground rods to be 3/4"x10' or 5/8"x8' with a 10' embedment. Ground rods must be installed in soil, not in the concrete backfill.
11. Provide equipment and materials to remove spoils from jobsite.
12. Provide materials and equipment to assemble and install (20) Light Structure Green™ fixtures and terminate all necessary wiring.
13. Provide equipment and materials to assemble and erect (4) Light Structure System Poles.
14. Provide equipment and materials to install the new Controls and Monitoring Cabinet and terminate all necessary wiring. Subcontractor to commission Control Link once system is energized.
15. Keep all heavy equipment off of playing fields when possible.
16. Provide startup and aiming as required to provide complete and operating sports lighting system.



Quote

**Tree Farm Park South
Key Biscayne, FL
Date: March 10, 2010
To: Todd Hofferberth
Pricing per Clay County Contract RFP# 08/09-3**

Quotation Price-Materials and Turnkey Installation

Musco's Light Structure Green™ as described below and delivered to the job site \$198,980.

Equipment Description

Light Structure Green™ System delivered to your site in Five Easy Pieces™

- Pre-cast concrete bases
- Galvanized steel poles
- UL Listed remote electrical component enclosures
- Pole length wire harness
- Factory-aimed and assembled luminaires

Also Includes:

- Energy savings of more than 50% over a standard lighting system
- 50% less spill and glare light than Musco's prior industry leading technology
- Musco Constant 25™ warranty and maintenance program that eliminates 100% of your maintenance costs for 25 years, including labor and materials
- Guaranteed constant light level of 30 footcandles for 25 years, +/- 10% per IESNA RP-06-01
- 2 group re-lamp(s) at the end of the lamps' rated life, 5000 hours
- Control Link® Control & Monitoring System for flexible control and solid management of your lighting system
- Lighting Contactors sized for voltage and phase available at jobsite

Field Description	Quantity	Pricing Per Clay County	Extended Price
(Sect I) Soccer Field	1	\$90,412.00	\$90,412.00
(Sect II F) Adder for additional spill and glare	4	\$3,335.00	\$13,340.00
(Sect IIIA) Pole Installation 70'	4	\$3,795.00	\$15,180.00
(Sect II G) Freight	1	\$912.00	\$912.00
(Sect IVA) 200 amp service	1	\$11,040.00	\$11,040.00
(Sect IVB) Wiring from Panel to Contactors	4	\$100.00	\$400.00
(Sect IVB) Wiring from Contactors to Poles	2,000	\$34.00	\$68,000.00
(Sect IVB) Pull Boxes	4	\$460.00	\$1,840.00
(Sect IVB) Connect Pull Boxes	4	\$110.00	\$440.00
(Sect VD) Structural Drawings	1	\$1,150.00	\$1,150.00
(Sect VF) Project Management	1	\$5,750.00	\$5,750.00
Deducts: Design Variables			-\$9,484.00
Total			\$198,980.00

Sales tax is not included as part of this quote.

Pricing furnished is effective for 60 days unless otherwise noted and is considered confidential.

Payment Terms

Net 30 from invoice date

Late payment will be subject to service charges of 1 ½% per month (18% APR).

Musco will attempt to coordinate shipment so that delivery corresponds with the customer's payment schedule. It will be the responsibility of the wholesaler to ensure that Musco is aware of this delivery timeframe. We will expect payment within the terms described above unless there is a written statement from Musco's corporate headquarters stating the acceptance of different terms.

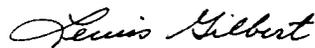
Delivery to the job site from the time of order, submittal approval, and confirmation of order details including voltage and phase, pole locations is approximately 30-45 days. Due to the built-in custom light control per luminaire, pole locations need to be confirmed prior to production. Changes to pole locations after the product is sent to production could result in additional charges.

Notes

Quote is based on:

- Shipment of entire project together to one location
- Field sizes of 360' X 180'
- Structural code and wind speed = 2007 FBC, 146 MPH 06-Sup HVHZ.
- Confirmation of pole locations prior to production

Thank you for considering Musco for your sports-lighting needs. Please contact me with any questions.



Lewis Gilbert
Sales Representative
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Phone: 954-727-8444
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Fax: 954-727-8445
Cell: 954-629-9235

Light Structure Green™ Turnkey Scope of Work
Tree Farm Park South
Key Biscayne, FL Project #129623

Owner Responsibilities:

1. Total access to the site and pole locations for construction. Must be able to move from location to location on standard rubber tires – no towing required.
2. Survey in pole locations and aiming points (one per field) for sighting in lighting cross-arms. Final grade elevations will also need marked if necessary.
3. Removal of any trees, limbs, etc. for total access to pole locations.
4. Removal, replacement, and repair of all fencing necessary for construction.
5. Repair and replacement of any field turf, asphalt, and /or concrete damage.
6. Locate existing underground utilities including irrigation systems.
7. Pay for all permitting costs as required.
8. Extra costs associated with foundation excavation and construction in non-standard soils (rock, caliche, high water table, collapsing holes, alluvial soils, etc.). Standard soils are defined as Class 5 soils in the 2007 edition of the Florida Building Code and can be excavated using standard earth auguring equipment.
9. Provide primary transformer to within 150' of site.
10. Provide a source of water such as a fire hydrant or 2" water line for foundation excavation.
11. Provide adequate trash container for cardboard waste.

Musco Responsibilities:

1. Provide required poles, fixtures, and foundations and associated designs.
2. Provide structural design for poles and foundations, certified by a professional engineer licensed in the State of Florida.
3. Provide layout of pole locations and aiming diagram.
4. Provide light test upon owner supplied electrical system.
5. Provide Project Management assistance as needed.
6. Provide review of electrical design as provided by Electrical Contractor or Electrical Engineer.

Musco Subcontractor Responsibilities:

1. Provide equipment and materials to off load equipment at jobsite per scheduled delivery.
2. Provide storage containers for material as necessary.
3. Provide adequate security to protect Musco delivered products from theft, vandalism or damage during the installation.
4. Provide electrical design by electrical engineer.
5. Obtain required permits, owner to pay cost of permits. Subcontractor to advise Musco of costs to subcontractor, if any, before proceeding with permitting.
6. Provide materials and equipment to install or upgrade existing electrical service panels as required or necessary. (This needs defined per Electrical design).
7. Provide materials and equipment to install all underground conduit, wiring, pull boxes etc. and terminate wiring as required per electrical design.
8. Confirm the existing underground utilities and irrigation systems have been located and are clearly marked so as to avoid damage from construction equipment. Repair any such damage during construction.
9. Provide materials and equipment to install (4) Light Structure System foundations as specified on Layout.

10. Provide and install ground rods (one per pole location) for lightning protection per NFPA 780 Code. Poles 70' and below require a #2 ground wire. Poles 80' and above require 2/0 ground wire. Ground rods to be 3/4"x10' or 5/8"x8' with a 10' embedment. Ground rods must be installed in soil, not in the concrete backfill.
11. Provide equipment and materials to remove spoils from jobsite.
12. Provide materials and equipment to assemble and install (24) Light Structure Green™ fixtures and terminate all necessary wiring.
13. Provide equipment and materials to assemble and erect (4) Light Structure System Poles.
14. Provide equipment and materials to install the new Controls and Monitoring Cabinet and terminate all necessary wiring. Subcontractor to commission Control Link once system is energized.
15. Keep all heavy equipment off of playing fields when possible.
16. Provide startup and aiming as required to provide complete and operating sports lighting system.

EXHIBIT B



Quotation

Date:		September 23, 2009	
To:		Village of Key Biscayne Aquatic Center	
Attn:		Todd Hofferberth (W) 305.365.8900 EXT. 1213, (F) 305.365.8991	
From:		Pat Bennett © 954.816.0894, (F) 954.835.0808	
Qty	Description	Price	Options/Equipment
(1) @	THOR GUARD Model L75R	\$6,500.00	\$6,500.00
(1) @	Voice of THOR Base Driver w/transmitter (VOTBD)	\$3,200.00	\$3,200.00
(1) @	Voice of THOR Remote (VOTRC) Solar w/ Strobe	\$3,000.00	\$3,000.00
	Hardware: Pipes, Tri-pods, Wall mounts, Etc.	\$250.00	\$250.00
OPTIONAL EQUIPMENT AND INSTALLATION			
	Installation and Add'l Fees		\$2,775.00
(2) @	Outdoor Strobes	\$175.00	\$350.00
(1) @	Solar Panels with mounting bracket	\$350 each	\$350.00
(1) @	UPS - Line Conditioner, Two Hour Backup, and Surge Protector	\$180.00	\$180.00
	Lightning Information Packet and Large Posters	N/C	Complimentary w/remote purchase
	PMA-Preventive Maint Agreement		\$650.00
	Estimated Freight Pat will Deliver		\$0.00
TOTALS			\$16,605.00
			\$650.00

ALL PRICES ABOVE EXCLUDE APPLICABLE STATE OR LOCAL TAXES

20 % Deposit required with signed quote or purchase order.

QUOTATION VALID FOR 90 DAYS FROM ISSUE DATE.

Approved by (customer signature): _____

Date: _____

1193 Sawgrass Corporate Parkway, Sunrise, FL 33323 Tel: (954) 835-0900 Fax: (954) 835-0808
www.thorguard.com

THOR GUARD, INC.			
Local Park Departments		July 29, 2009	
Park Department	# Of Parks	Contact	Phone Number
City of Aventura	3	Tonya Nimark	305-466-8932
City of Boca Raton Parks	9	Greg Stevens	561-393-7859
Broward County Parks	20	Toni Peyton	954-357-8100
City of Coconut Creek Parks	8	Larry Spollen	954-973-8780
City of Cooper City Parks	3	Ken Richardson	954-434-4300
City of Coral Gables Parks	2	Jason Gilley	305-460-5607
City of Coral Springs	7	Louis Goldstein	954-345-2112
City of Dania Beach Parks	4	Mark Falcott	954-924-3600
Town of Davie Parks	1	Dennis Andresky	954-797-1145
City of Deerfield Beach Parks	1	Paul Collette	954-480-4980
City of Delray Beach Parks	2	Tom Kwiatek	561-243-7163
City of Doral Parks	2	Jesus Palacios	305-593-6602
City of Hallandale Beach	2	Rebecca Munden-Correa	954-457-1452
City of Hialeah Parks	4	Reggie Betancourt	305-687-2650
City of Hollywood Parks	7	Jack Mathison	954-921-3404
City of Homestead Parks	3	Omar Luna	305-224-4576
Indian River County Parks	2	Dave Smith	772-581-7665
Town of Jupiter	1	Roy Booth	561-741-2528
City of Lauderdale Hill Parks	8	Scott Newton	954-730-3084
City of Lauderdale Lakes	4	Jeff Barr	954-535-2796
City of Margate Parks	8	Mike Jones	954-972-8458
Miami-Dade County Parks	25	Joe Dopic	305-596-4460
Town of Miami Lakes Parks	2	Tony Lopez	305-364-6100
Village of Miami Shores Parks	2	John Estep	305-796-2233
City of Miami Parks	1	Ariel Gullian	786-269-2823
City of Miami Springs	4	Ron Gorland	305-805-5010
City of Miramar Parks	8	Holly Hicks	954-883-6950
Village of North Palm Beach Parks	2	Adam Magun	561-841-3384
City of Parkland Parks	6	Jim Cowen	954-757-1909
City of Pembroke Pines Parks	17	Chuck Vones	954-443-4829
City of Plantation Parks	10	Phil Goodrich	954-452-2511
City of Pompano Beach Parks	6	Nick Lazazzara	954-788-4119
City of Port Saint Lucie Parks	7	Garry Malville	772-871-5099
Village of Royal Palm Beach Parks	4	Lou Recchio	561-790-6194
Saint Lucie County Parks	5	Anthony Allen	772-462-1700
Okeechobee County Parks	1	Danell Enfinger	863-763-6950
City of South Miami	2	Rudy De La Torre	305-798-1543
City of Sunrise Parks	8	Steve Kana	954-747-4600
City of Tamarac Parks	6	Greg Warner	954-718-1782
City of Wilton Manor Parks	1	Bill Wetzel	954-390-2100
Village of Islamorada Founder's Park	1	Maria Bagiotti	305-863-1686
Village of Wellington Parks	5	Bruce Wagner	561-791-4757
City of Weston Parks	3	Jeff Skidmore	954-389-4321
Total	227		

EXHIBIT C

WEST WOOD COST COMPARISON SUMMARY TABLE

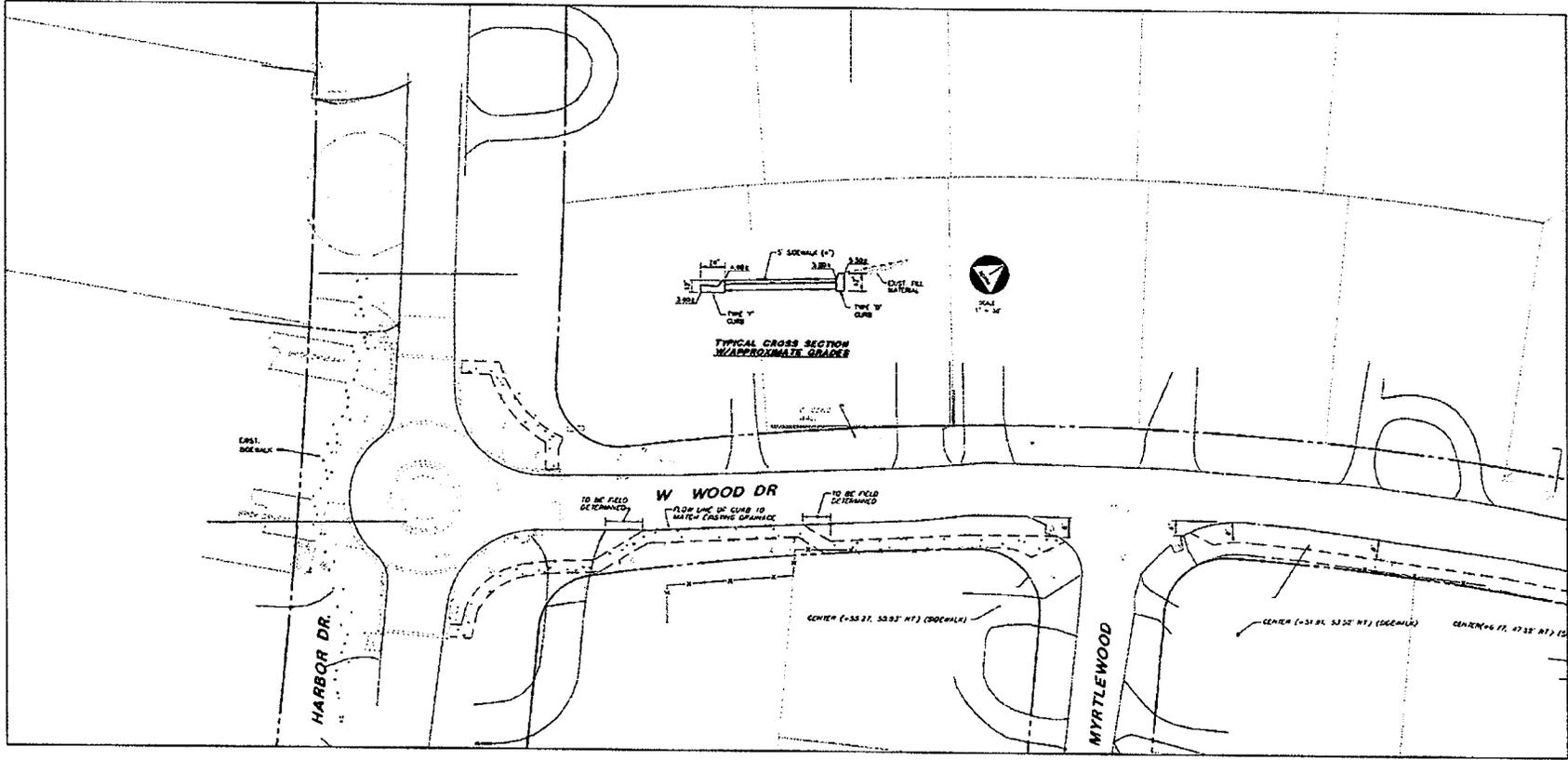
W. WOOD INTERSECTION AND	ORIGINAL DESIGN 1998	ORIGINAL DESIGN 2009	REVISED DESIGN 11/16/09
Fernwood Rd	Traffic Circle	Traffic Circle	Choke Down with Brick Intersection
Woodcrest Rd	Traffic Circle	Traffic Circle	Brick pavered crosswalks
Warren Lane to Hampton Rd	Elevated T Intersection	Elevated T Intersection	Speed Table
Allendale Rd to Curtiswood Rd	Median Divider	Median Divider	Speed Table
CONSTRUCTION COST	\$241,337.09	\$352,385.83	\$194,823.64
ENGINEERING DESIGN	\$24,710.00	\$39,500.00	\$15,720.00
CONSTRUCTION MANAGEMENT	\$46,666.00	\$14,400.00	\$12,000.00
TOTAL ESTIMATE	\$312,713.09	\$406,285.83	\$222,543.64

**VILLAGE OF KEY BISCAYNE
WEST WOOD DRIVE TRAFFIC CALMING
CONSTRUCTION COST ESTIMATE COMPARISON**

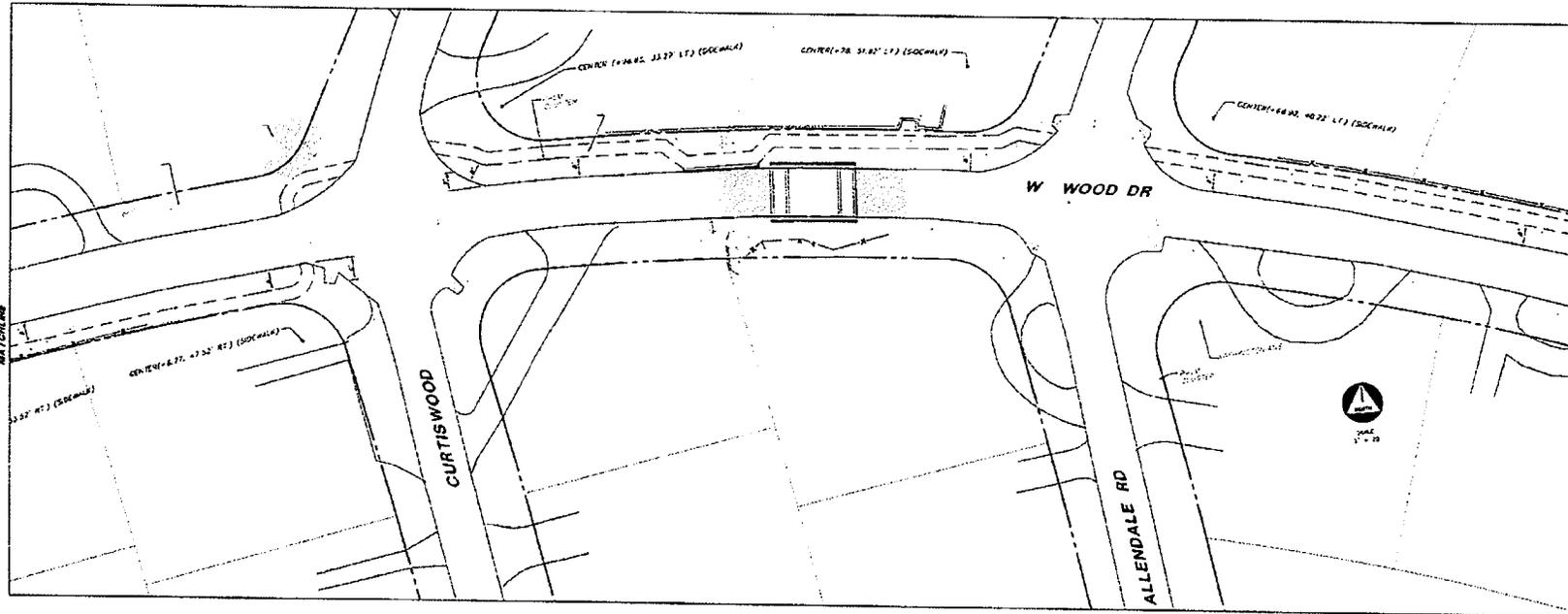
SCHEDULE OF BID ITEMS-W. Wood Traffic Calming Improvements			ORIGINAL - 1998			UPDATED COST (ORIGINAL DESIGN)			UPDATED COST (REVISED DESIGN)		
Item No.	Description	Unit	Estimated Quantity	Unit Cost	Total	Estimated Quantity	Unit Cost	Total	Estimated Quantity	Unit Cost	Total
100-1	Allowance Account	LS	1	\$10,000.00	\$10,000.00	1	\$10,000.00	\$10,000.00	1	\$10,000.00	\$10,000.00
101-1	Mobilization (Traffic Calming)	LS	1	\$10,000.00	\$10,000.00	1	\$10,000.00	\$10,000.00	1	\$10,000.00	\$10,000.00
101-2	Indemnification	LS	1	\$25.00	\$25.00	1	\$25.00	\$25.00	1	\$25.00	\$25.00
101-3	Performance and Payment Guaranty & Insurance	LS	1	\$ 8,600.00	\$8,600.00	1	\$ 8,600.00	\$8,600.00	1	\$8,600.00	\$8,600.00
102-1	Maintenance of Traffic (Traffic Calming) (5%)	LS	1	\$20,000.00	\$20,000.00	1	\$25,000.00	\$25,000.00	1	\$25,000.00	\$25,000.00
110-1	Clearing and Grubbing (Traffic Calming)	LS	1	\$15,000.00	\$15,000.00	1	\$15,000.00	\$15,000.00	1	\$15,000.00	\$15,000.00
120-1	Grading (Traffic Calming)	LS	1	\$15,000.00	\$15,000.00	1	\$15,000.00	\$15,000.00	1	\$15,000.00	\$15,000.00
160-4	12" Stabilized Subgrade	SY	283	\$9.00	\$2,550.20	283	\$13.50	\$3,825.30	80	\$13.50	\$1,084.88
200-1	Limerock Base, Primed (8" Thick)	SY	283	\$10.00	\$2,833.56	283	\$15.00	\$4,250.33	80	\$15.00	\$1,205.42
210-1	Reworking Limerock Base	SY	2834	\$7.00	\$19,834.89	2834	\$10.50	\$29,752.33	804	\$10.50	\$8,437.94
337-1	SP-9.5 Superpave Asphaltic Concrete (1-1/2" Thick)	TN	119	\$55.00	\$6,519.91	119	\$116.00	\$13,751.08	58	\$116.00	\$6,692.90
380-1A	Driveway Restoration (Asphalt) (Traffic Calming)	SY	139	\$18.00	\$2,494.06	139	\$50.00	\$6,927.94	20	\$50.00	\$977.78
380-1B	Driveway Restoration (Concrete) (Traffic Calming)	SY	26	\$25.00	\$655.75	26	\$62.50	\$1,639.38	0	\$62.50	\$0.00
380-1C	Driveway Restoration (Specialty) (Traffic Calming)	SY	83	\$40.00	\$3,309.07	83	\$75.00	\$6,204.50	0	\$75.00	\$0.00
526-1	Brick Pavers (Traffic Calming)	SY	1376	\$30.00	\$41,293.33	1376	\$55.00	\$75,704.44	587	\$55.00	\$32,263.98
400-1	Concrete, Class I (Substructure)	CY	0	\$200.00	\$0.00	0	\$200.00	\$0.00	130	\$200.00	\$26,071.90
425-1	Inlets	EA	8	\$2,000.00	\$16,000.00	8	\$4,000.00	\$32,000.00	0	\$4,000.00	\$0.00
425-2	Manholes	EA	3	\$2,500.00	\$7,500.00	3	\$4,000.00	\$12,000.00	0	\$4,000.00	\$0.00
425-4	Adjust Inlets	EA	0	\$300.00	\$0.00	0	\$400.00	\$0.00	0	\$400.00	\$0.00
425-5	Adjust Manholes	EA	3	\$300.00	\$900.00	3	\$570.00	\$1,710.00	2	\$570.00	\$1,140.00
425-6	Adjust Valve Boxes, Fire Hydrants, Meter Boxes and Cleanouts	EA	0	\$40.00	\$0.00	0	\$150.00	\$0.00	0	\$150.00	\$0.00
425-7	Modify Inlets	EA	0	\$500.00	\$0.00	0	\$500.00	\$0.00	0	\$500.00	\$0.00
425-8	Modify Manholes	EA	3	\$500.00	\$1,500.00	3	\$680.00	\$2,040.00	0	\$680.00	\$0.00
425-9	Convert Inlet to Manhole	EA	2	\$500.00	\$1,000.00	2	\$1,000.00	\$2,000.00	0	\$1,000.00	\$0.00
430-1A	Storm Sewer Pipe (15" HDPE)	LF	179	\$52.00	\$9,308.00	179	\$73.00	\$13,067.00	0	\$73.00	\$0.00
430-1B	Storm Sewer Pipe (18" HDPE)	LF	0	\$62.00	\$0.00	0	\$73.00	\$0.00	0	\$73.00	\$0.00
430-2	Additional Bedding	LF	0	\$5.00	\$0.00	0	\$5.00	\$0.00	0	\$5.00	\$0.00
520-1A	Type "E" Concrete Curb and Gutter	LF	208	\$18.00	\$3,744.00	208	\$26.00	\$5,408.00	0	\$26.00	\$0.00
520-1B	Type "E" Concrete Curb and Gutter (Reinforced)	LF	770	\$25.00	\$19,260.00	770	\$35.00	\$26,964.00	280	\$35.00	\$9,800.00
520-1C	Type "E" Concrete Curb and Gutter (Modified)	LF	57	\$15.00	\$855.00	57	\$23.00	\$1,311.00	0	\$23.00	\$0.00
520-1D	Type "D" Curb	LF	66	\$13.00	\$858.00	66	\$25.00	\$1,650.00	128	\$25.00	\$3,200.00
520-1E	Concrete Band (Roadway) (Colored)	LF	662	\$17.00	\$11,254.00	662	\$25.00	\$16,550.00	471	\$25.00	\$11,780.50
575-1	Sodding (Traffic Calming)	SY	81	\$3.00	\$242.33	81	\$3.50	\$282.72	70	\$3.50	\$243.44
700-1	Traffic Signs (Permanent)	EA	34	\$300.00	\$10,200.00	34	\$325.00	\$11,050.00	24	\$325.00	\$7,800.00
700-20	Single Post Sign (< 12 SF) (Allendale)	AS	0	\$325.00	\$0.00	0	\$325.00	\$0.00	0	\$325.00	\$0.00
706-1	Reflective Pavement Markers	EA	112	\$5.00	\$560.00	112	\$5.85	\$632.80	46	\$5.85	\$249.90
711-1	Thermoplastic Marking	SF	20	\$2.00	\$40.00	20	\$2.00	\$40.00	120	\$2.00	\$240.00
948-1A	4" Schedule 40 PVC Pipe	LF	0	\$8.00	\$0.00	0	\$8.00	\$0.00	0	\$8.00	\$0.00
Total Base Bid					\$241,337.69			\$352,385.83			\$194,823.64

Note: Unit costs are based on FDOTs Basis of Estimates 12-month Average Cost for Area 13 - Miami-Dade County

Approximately 4% mark-up per year for 10 years = 48%
New Item
Stormwater related items - installed under Water & Sewer Project



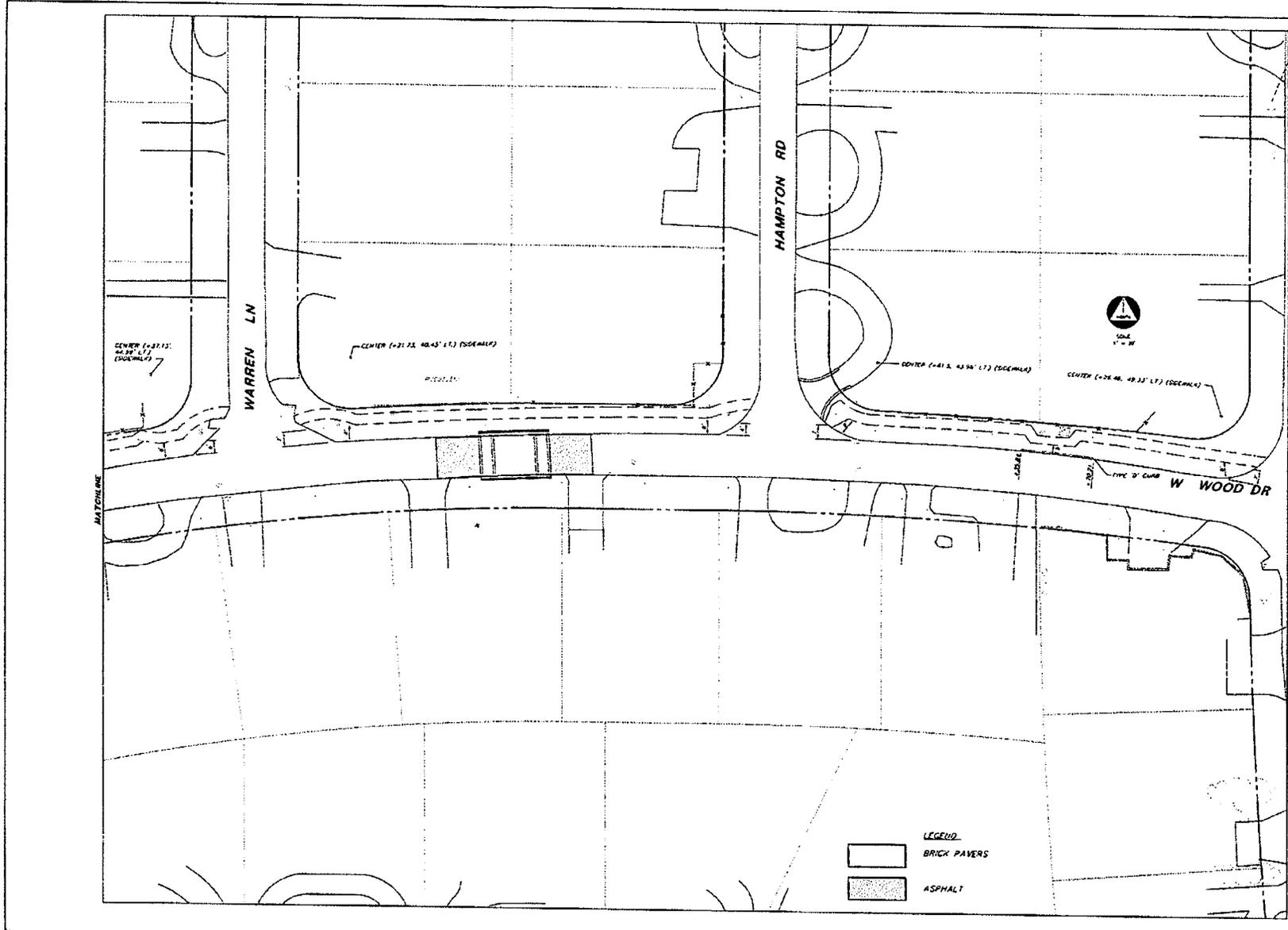
TETRA TECH <small>1465 EAST BURNHAM BLVD. SUITE 200 / WEST LAKESHORE, FLORIDA 33509 PHONE: (615) 246-3100 • FAX: (615) 246-3102</small>	
TRAFFIC CALMING IMPROVEMENTS & SIDEWALK PROJECT WEST WOOD DRIVE <small>LOCATED IN:</small> VILLAGE OF KEY BISCAIYNE, FLORIDA	
<small>PROJECT NO.:</small> <small>DATE:</small> <small>DESIGNED BY:</small> <small>CHECKED BY:</small> <small>SCALE:</small>	<small>PROJECT NO.</small> <small>DATE</small> <small>SCALE</small>
<small>PROJECT NO. 200-0760-0000</small> <small>SHEET NO. C-5</small>	



LEGEND
 BRICK PAVERS
 ASPHALT

CONCEPTUAL-REVISED 11-16-09

TETRA TECH 1401 S.W. 88th Avenue, Suite 300, Fort Lauderdale, Florida 33308 PHONE: (954) 296-3333 FAX: (954) 296-3332	
	
TRAFFIC CALMING IMPROVEMENTS & SIDEWALK PROJECT WEST WOOD DRIVE LOCATED IN: VILLAGE OF KEY BISCAYNE, FLORIDA	
DRAWN BY: [] CHECKED BY: [] DATE: []	PROJECT No. 200-0270-0000 SHEET No. C-9



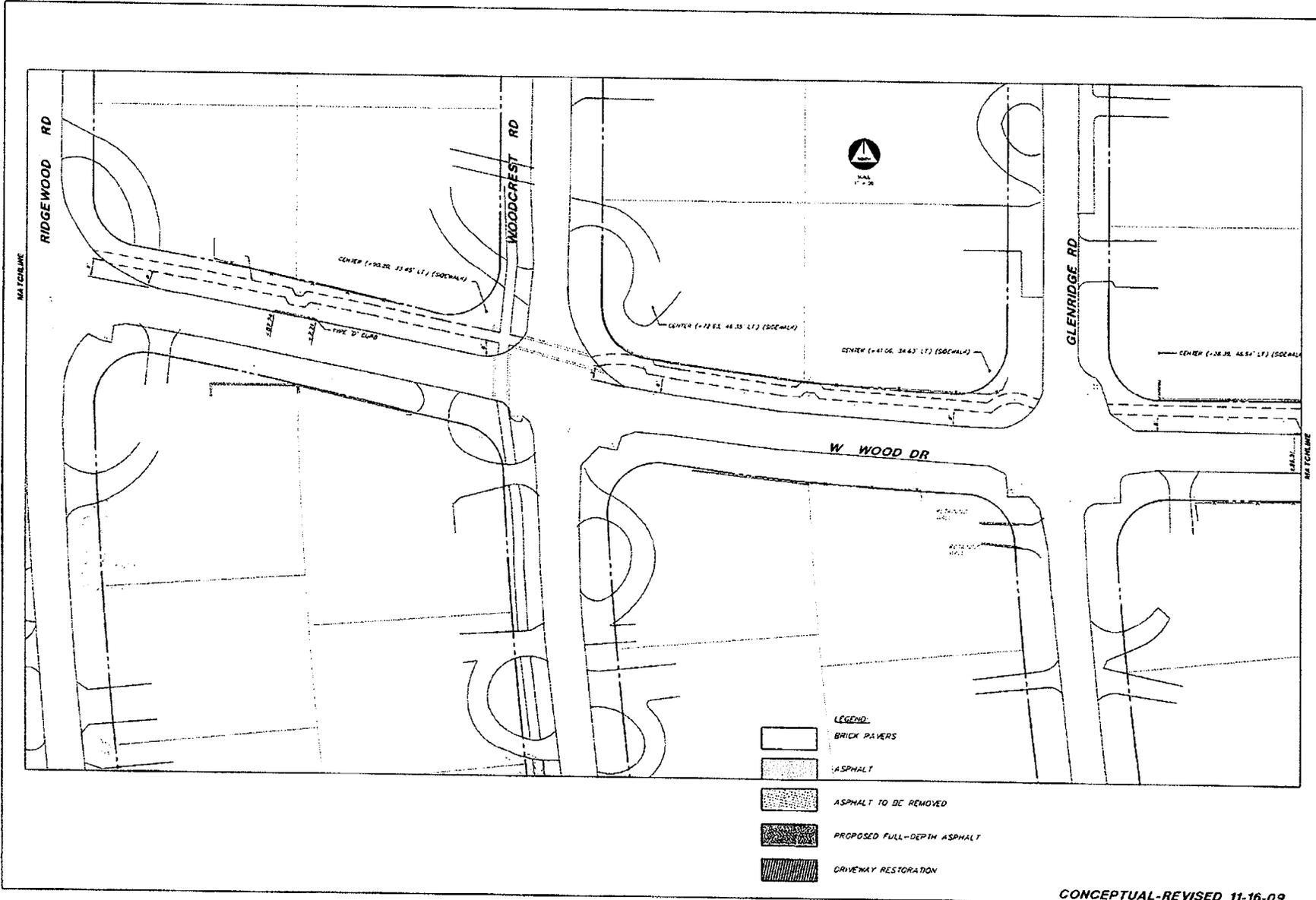
CONCEPTUAL-REVISED 11-16-09

DATE	11/16/09
BY	JK
CHECKED BY	JK
PROJECT NO.	200-6780-0000
SHEET NO.	C-10

PROJECT: TRAFFIC CALMING IMPROVEMENTS & SIDEWALK PROJECT
 WEST WOOD DRIVE
 LOCATED IN:
 VILLAGE OF KEY BISCAYNE, FLORIDA

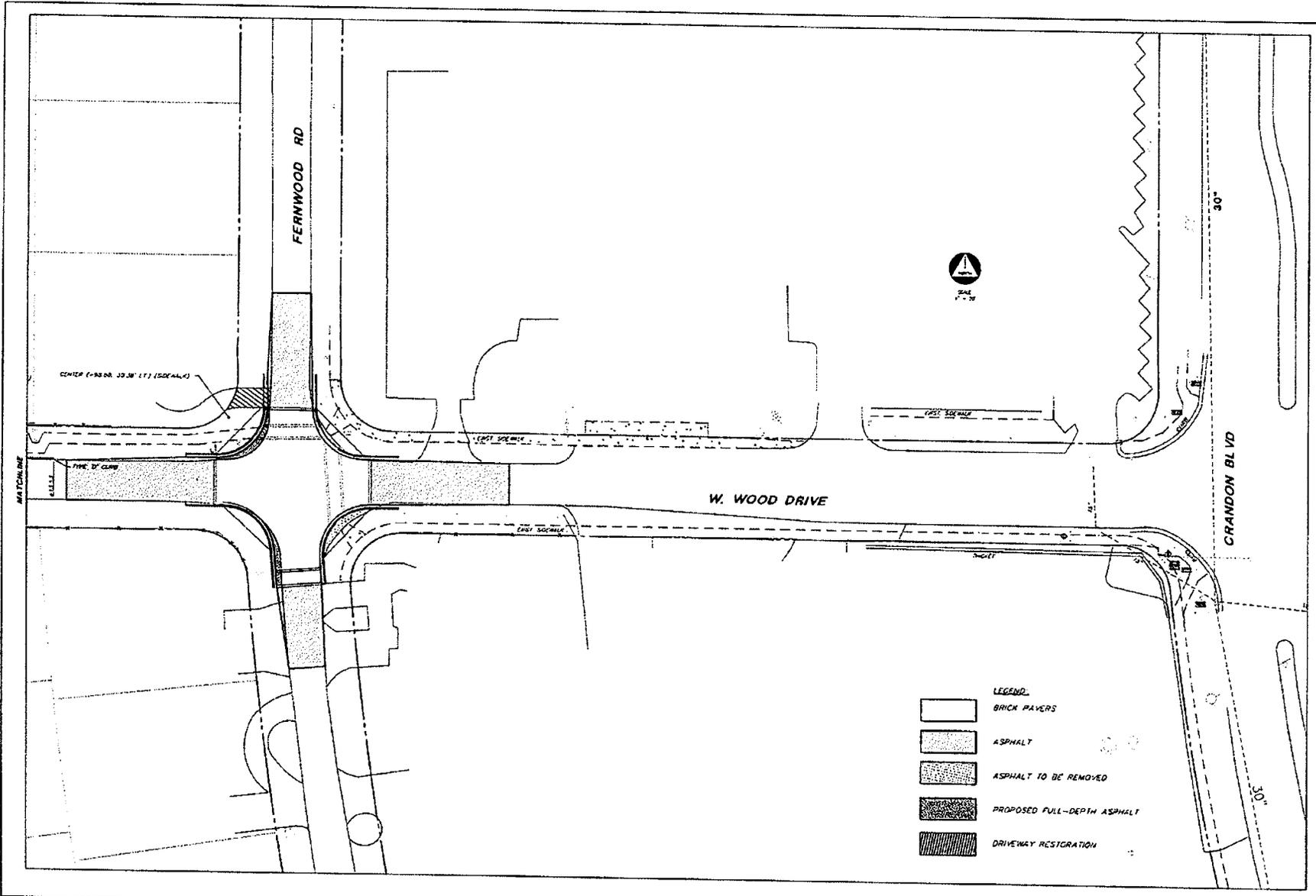
TETRA TECH
 1401 154TH AVENUE SUITE 200 W. PALM BEACH, FLORIDA 33411
 PHONE: (561) 366-3344 FAX: (561) 366-3343

TC



CONCEPTUAL-REVISED 11-16-09

PROJECT NO. 208-1500-0000	SHEET # C-11
PROJECT TITLE TRAFFIC CALMING IMPROVEMENTS & SIDEWALK PROJECT WEST WOOD DRIVE VILLAGE OF KEY BISCAYNE, FLORIDA	
PROJECT LOCATION 1100 (E) BRIDGE BLVD., SUITE 302, FORT LAUDERDALE, FLORIDA 33304 PHONE: (954) 366-3301 • FAX: (954) 366-3310	
TETRA TECH 	
DATE 11/16/09	SCALE AS SHOWN
DESIGNED BY J. B. ...	CHECKED BY ...
DRAWN BY ...	APPROVED BY ...



- LEGEND:**
-  BRICK PAVERS
 -  ASPHALT
 -  ASPHALT TO BE REMOVED
 -  PROPOSED FULL-DEPTH ASPHALT
 -  DRIVEWAY RESTORATION

CONCEPTUAL-REVISED 11-16-09

<p>TETRA TECH 1401 EAST WINDWARD WAY, SUITE 201, LAUDERDALE, FLORIDA 33304 PHONE: (954) 386-3511 • FAX: (954) 386-3512</p>	
	
<p>TAMPA CALMING IMPROVEMENTS & SIDEWALK PROJECT WEST WOOD DRIVE LOCATED IN: VILLAGE OF KEY BISCAYNE, FLORIDA</p>	
<p>SCALE: DATE: 11/16/09 DRAWN BY: [blank] CHECKED BY: [blank] DESIGNED BY: [blank] PROJECT NO. 08100-00003 SHEET NO. C-12</p>	<p>DATE: [blank] NO. [blank] BY: [blank]</p>

**VILLAGE OF KEY BISCAIYNE
WEST WOOD DRIVE TRAFFIC CALMING
CONSTRUCTION COST ESTIMATE COMPARISON**

SCHEDULE OF BID ITEMS-W. Wood Traffic Calming Improvements			ORIGINAL - 1998			UPDATED COST (ORIGINAL DESIGN)			UPDATED COST (REVISED DESIGN)		
Item No.	Description	Unit	Estimated Quantity	Unit Cost	Total	Estimated Quantity	Unit Cost	Total	Estimated Quantity	Unit Cost	Total
100-1	Allowance Account	LS	1	\$10,000.00	\$10,000.00	1	\$10,000.00	\$10,000.00	1	\$10,000.00	\$10,000.00
101-1	Mobilization (Traffic Calming)	LS	1	\$10,000.00	\$10,000.00	1	\$10,000.00	\$10,000.00	1	\$10,000.00	\$10,000.00
101-2	Indemnification	LS	1	\$25.00	\$25.00	1	\$25.00	\$25.00	1	\$25.00	\$25.00
101-3	Performance and Payment Guaranty & Insurance	LS	1	\$ 8,600.00	\$8,600.00	1	\$ 8,600.00	\$8,600.00	1	\$8,600.00	\$8,600.00
102-1	Maintenance of Traffic (Traffic Calming) (5%)	LS	1	\$20,000.00	\$20,000.00	1	\$25,000.00	\$25,000.00	1	\$25,000.00	\$25,000.00
110-1	Clearing and Grubbing (Traffic Calming)	LS	1	\$15,000.00	\$15,000.00	1	\$15,000.00	\$15,000.00	1	\$15,000.00	\$15,000.00
120-1	Grading (Traffic Calming)	LS	1	\$15,000.00	\$15,000.00	1	\$15,000.00	\$15,000.00	1	\$15,000.00	\$15,000.00
160-4	12" Stabilized Subgrade	SY	283	\$9.00	\$2,550.20	283	\$13.50	\$3,825.30	150	\$13.50	\$2,021.34
200-1	Limerock Base, Primed (8" Thick)	SY	283	\$10.00	\$2,833.56	283	\$15.00	\$4,250.33	150	\$15.00	\$2,245.93
210-1	Reworking Limerock Base	SY	2834	\$7.00	\$19,834.89	2834	\$10.50	\$29,752.33	1497	\$10.50	\$15,721.51
337-1	SP-9.5 Superpave Asphaltic Concrete (1-½" Thick)	TN	119	\$55.00	\$6,519.91	119	\$116.00	\$13,751.08	164	\$116.00	\$19,041.64
380-1A	Driveway Restoration (Asphalt) (Traffic Calming)	SY	139	\$18.00	\$2,494.06	139	\$50.00	\$6,927.94	57	\$50.00	\$2,843.89
380-1B	Driveway Restoration (Concrete) (Traffic Calming)	SY	26	\$25.00	\$655.75	26	\$62.50	\$1,639.38	26	\$62.50	\$1,639.38
380-1C	Driveway Restoration (Specialty) (Traffic Calming)	SY	83	\$40.00	\$3,309.07	83	\$75.00	\$6,204.50	83	\$75.00	\$6,204.50
526-1	Brick Pavers (Traffic Calming)	SY	1376	\$30.00	\$41,293.33	1376	\$55.00	\$75,704.44	424	\$55.00	\$23,342.67
400-1	Concrete, Class I (Substructure)	CY	0	\$200.00	\$0.00	0	\$200.00	\$0.00	94	\$200.00	\$18,862.77
425-1	Inlets	EA	8	\$2,000.00	\$16,000.00	8	\$4,000.00	\$32,000.00	0	\$4,000.00	\$0.00
425-2	Manholes	EA	3	\$2,500.00	\$7,500.00	3	\$4,000.00	\$12,000.00	0	\$4,000.00	\$0.00
425-4	Adjust Inlets	EA	0	\$300.00	\$0.00	0	\$400.00	\$0.00	0	\$400.00	\$0.00
425-5	Adjust Manholes	EA	3	\$300.00	\$900.00	3	\$570.00	\$1,710.00	3	\$570.00	\$1,710.00
425-6	Adjust Valve Boxes, Fire Hydrants, Meter Boxes and Cleanouts	EA	0	\$40.00	\$0.00	0	\$150.00	\$0.00	0	\$150.00	\$0.00
425-7	Modify Inlets	EA	0	\$500.00	\$0.00	0	\$500.00	\$0.00	0	\$500.00	\$0.00
425-8	Modify Manholes	EA	3	\$500.00	\$1,500.00	3	\$680.00	\$2,040.00	0	\$680.00	\$0.00
425-9	Convert Inlet to Manhole	EA	2	\$500.00	\$1,000.00	2	\$1,000.00	\$2,000.00	0	\$1,000.00	\$0.00
430-1A	Storm Sewer Pipe (15" HDPE)	LF	179	\$52.00	\$9,308.00	179	\$73.00	\$13,067.00	0	\$73.00	\$0.00
430-1B	Storm Sewer Pipe (18" HDPE)	LF	0	\$62.00	\$0.00	0	\$73.00	\$0.00	0	\$73.00	\$0.00
430-2	Additional Bedding	LF	0	\$5.00	\$0.00	0	\$5.00	\$0.00	0	\$5.00	\$0.00
520-1A	Type "E" Concrete Curb and Gutter	LF	208	\$18.00	\$3,744.00	208	\$26.00	\$5,408.00	0	\$26.00	\$0.00
520-1B	Type "E" Concrete Curb and Gutter (Reinforced)	LF	770	\$25.00	\$19,260.00	770	\$35.00	\$26,964.00	644	\$35.00	\$22,554.00
520-1C	Type "E" Concrete Curb and Gutter (Modified)	LF	57	\$15.00	\$855.00	57	\$23.00	\$1,311.00	57	\$23.00	\$1,311.00
520-1D	Type "D" Curb	LF	66	\$13.00	\$858.00	66	\$25.00	\$1,650.00	130	\$25.00	\$3,250.00
520-1E	Concrete Band (Roadway) (Colored)	LF	662	\$17.00	\$11,254.00	662	\$25.00	\$16,550.00	658	\$25.00	\$16,450.00
575-1	Sodding (Traffic Calming)	SY	81	\$3.00	\$242.33	81	\$3.50	\$282.72	60	\$3.50	\$209.61
700-1	Traffic Signs (Permanent)	EA	34	\$300.00	\$10,200.00	34	\$325.00	\$11,050.00	30	\$325.00	\$9,750.00
700-20	Single Post Sign (< 12 SF) (Allendale)	AS	0	\$325.00	\$0.00	0	\$325.00	\$0.00	0	\$325.00	\$0.00
706-1	Reflective Pavement Markers	EA	112	\$5.00	\$560.00	112	\$5.65	\$632.80	74	\$5.65	\$418.10
711-1	Thermoplastic Marking	SF	20	\$2.00	\$40.00	20	\$2.00	\$40.00	20	\$2.00	\$40.00
948-1A	4" Schedule 40 PVC Pipe	LF	0	\$8.00	\$0.00	0	\$8.00	\$0.00	0	\$8.00	\$0.00
	Total Base Bid				\$241,337.09			\$352,385.83			\$231,241.33

Note: Unit costs are based on FDOTs Basis of Estimates 12-month Average Cost for Area 13 = Miami-Dade County

Approximately 4% mark-up per year for 10 years = 40%

	New Item
	Stormwater related items - installed under Water & Sewer Project

**VILLAGE OF KEY BISCAYNE
WEST WOOD DRIVE TRAFFIC CALMING
CONSTRUCTION COST ESTIMATE COMPARISON**

ORIGINAL DESIGN (1998)

(1 - Traffic Circle @ Fernwood Rd, 1 - Traffic Circle @ Woodcrest Rd, 1 - Elevated T-Intersection @ Hampton Ln, 1 - Median Divider between Allendale Rd & Curtiswood Dr)

SCHEDULE OF BID ITEMS-W, Wood Traffic Calming Improvements			Sheet C-9 Median Divider - 1998			Sheet C-10 Elevated T-Intersection-1998			Sheet C-11 Traffic Circle @ Woodcrest-1998			Sheet C-12 Traffic Circle @ Fernwood-1998			ORIGINAL - 1998		
Item No.	Description	Unit	Estimated Quantity	Unit Cost	Total	Estimated Quantity	Unit Cost	Total	Estimated Quantity	Unit Cost	Total	Estimated Quantity	Unit Cost	Total	Estimated Quantity	Unit Cost	Total
100-1	Allowance Account	LS	0.25	\$10,000.00	\$2,500.00	0.25	\$10,000.00	\$2,500.00	0.25	\$10,000.00	\$2,500.00	0.25	\$10,000.00	\$2,500.00	1	\$10,000.00	\$10,000.00
101-1	Mobilization (Traffic Calming)	LS	0.25	\$10,000.00	\$2,500.00	0.25	\$10,000.00	\$2,500.00	0.25	\$10,000.00	\$2,500.00	0.25	\$10,000.00	\$2,500.00	1	\$10,000.00	\$10,000.00
101-2	Indemnification	LS	0.25	\$25.00	\$6.25	0.25	\$25.00	\$6.25	0.25	\$25.00	\$6.25	0.25	\$25.00	\$6.25	1	\$25.00	\$25.00
101-3	Performance and Payment Guaranty & Insurance	LS	0.25	\$ 8,600.00	\$2,150.00	0.25	\$ 8,600.00	\$2,150.00	0.25	\$ 8,600.00	\$2,150.00	0.25	\$ 8,600.00	\$2,150.00	1	\$ 8,600.00	\$8,600.00
102-1	Maintenance of Traffic (Traffic Calming) (5%)	LS	0.25	\$20,000.00	\$5,000.00	0.25	\$20,000.00	\$5,000.00	0.25	\$20,000.00	\$5,000.00	0.25	\$20,000.00	\$5,000.00	1	\$20,000.00	\$20,000.00
110-1	Clearing and Grubbing (Traffic Calming)	LS	0.25	\$15,000.00	\$3,750.00	0.25	\$15,000.00	\$3,750.00	0.25	\$15,000.00	\$3,750.00	0.25	\$15,000.00	\$3,750.00	1	\$15,000.00	\$15,000.00
120-1	Grading (Traffic Calming)	LS	0.25	\$15,000.00	\$3,750.00	0.25	\$15,000.00	\$3,750.00	0.25	\$15,000.00	\$3,750.00	0.25	\$15,000.00	\$3,750.00	1	\$15,000.00	\$15,000.00
160-4	12" Stabilized Subgrade	SV	49	\$9.00	\$437.50	47	\$9.00	\$419.10	100	\$9.00	\$895.80	89	\$9.00	\$797.80	283	\$9.00	\$2,550.20
200-1	Limerock Base, Primed (8" Thick)	SV	49	\$10.00	\$486.11	47	\$10.00	\$465.67	100	\$10.00	\$995.33	89	\$10.00	\$886.44	283	\$10.00	\$2,833.56
210-1	Reworking Limerock Base	SV	486	\$7.00	\$3,402.78	466	\$7.00	\$3,259.67	995	\$7.00	\$6,967.33	886	\$7.00	\$6,205.11	2834	\$7.00	\$19,834.69
337-1	SP-0.5 Superpave Asphalt Concrete (1-1/2" Thick)	TN	19	\$55.00	\$1,045.23	19	\$55.00	\$1,048.67	45	\$55.00	\$2,475.31	36	\$55.00	\$1,972.70	119	\$55.00	\$6,544.50
380-1A	Driveway Restoration (Asphalt) (Traffic Calming)	SV		\$18.00	\$0.00		\$18.00	\$0.00	37	\$18.00	\$671.80	101	\$18.00	\$1,818.26	139	\$18.00	\$2,484.06
380-1B	Driveway Restoration (Concrete) (Traffic Calming)	SV		\$25.00	\$0.00	26	\$25.00	\$655.75		\$25.00	\$0.00		\$25.00	\$0.00	26	\$25.00	\$655.75
380-1C	Driveway Restoration (Specialty) (Traffic Calming)	SV		\$40.00	\$0.00	29	\$40.00	\$1,145.16	54	\$40.00	\$2,163.91		\$40.00	\$0.00	83	\$40.00	\$3,309.07
526-1	Brick Pavers (Traffic Calming)	SV	253	\$30.00	\$7,600.00	233	\$30.00	\$6,986.67	445	\$30.00	\$13,350.67	445	\$30.00	\$13,350.00	1376	\$30.00	\$41,283.33
400-1	Concrete, Class I (Substructure)	CY		\$200.00	\$0.00		\$200.00	\$0.00		\$200.00	\$0.00		\$200.00	\$0.00	0	\$200.00	\$0.00
425-1	Inlets	EA	1	\$2,000.00	\$2,000.00	1	\$2,000.00	\$2,000.00	3	\$2,000.00	\$6,000.00	3	\$2,000.00	\$6,000.00	8	\$2,000.00	\$16,000.00
425-2	Manholes	EA	1	\$2,500.00	\$2,500.00		\$2,500.00	\$0.00	1	\$2,500.00	\$2,500.00	1	\$2,500.00	\$2,500.00	3	\$2,500.00	\$7,500.00
425-4	Adjust Inlets	EA		\$300.00	\$0.00		\$300.00	\$0.00		\$300.00	\$0.00		\$300.00	\$0.00	0	\$300.00	\$0.00
425-5	Adjust Manholes	EA		\$300.00	\$0.00	1	\$300.00	\$300.00	1	\$300.00	\$300.00	1	\$300.00	\$300.00	3	\$300.00	\$900.00
425-6	Adjust Valve Boxes, Fire Hydrants, Meter Boxes and Cleanouts	EA		\$40.00	\$0.00		\$40.00	\$0.00		\$40.00	\$0.00		\$40.00	\$0.00	0	\$40.00	\$0.00
425-7	Modify Inlets	EA		\$500.00	\$0.00		\$500.00	\$0.00		\$500.00	\$0.00		\$500.00	\$0.00	0	\$500.00	\$0.00
425-8	Modify Manholes	EA		\$500.00	\$0.00	1	\$500.00	\$500.00	1	\$500.00	\$500.00	1	\$500.00	\$500.00	3	\$500.00	\$1,500.00
425-9	Convert Inlet to Manhole	EA	1	\$500.00	\$500.00		\$500.00	\$0.00	1	\$500.00	\$500.00		\$500.00	\$0.00	2	\$500.00	\$1,000.00
430-1A	Storm Sewer Pipe (15" HDPE)	LF	15	\$52.00	\$780.00	7	\$52.00	\$364.00	122	\$52.00	\$6,344.00	35	\$52.00	\$1,820.00	179	\$52.00	\$9,308.00
430-1B	Storm Sewer Pipe (18" HDPE)	LF		\$62.00	\$0.00		\$62.00	\$0.00		\$62.00	\$0.00		\$62.00	\$0.00	0	\$62.00	\$0.00
430-2	Additional Bedding	LF		\$5.00	\$0.00		\$5.00	\$0.00		\$5.00	\$0.00		\$5.00	\$0.00	0	\$5.00	\$0.00
520-1A	Type "E" Concrete Curb and Gutter	LF	208	\$18.00	\$3,744.00		\$18.00	\$0.00		\$18.00	\$0.00		\$18.00	\$0.00	208	\$18.00	\$3,744.00
520-1B	Type "E" Concrete Curb and Gutter (Reinforced)	LF	126	\$25.00	\$3,150.00	108	\$25.00	\$2,700.00	256	\$25.00	\$6,400.00	280	\$25.00	\$7,000.00	770	\$25.00	\$19,250.00
520-1C	Type "E" Concrete Curb and Gutter (Modified)	LF		\$15.00	\$0.00		\$15.00	\$0.00	57	\$15.00	\$855.00		\$15.00	\$0.00	57	\$15.00	\$855.00
520-1D	Type "D" Curb	LF		\$13.00	\$0.00	66	\$13.00	\$858.00		\$13.00	\$0.00		\$13.00	\$0.00	66	\$13.00	\$858.00
520-1E	Concrete Band (Roadway) (Colored)	LF	50	\$17.00	\$850.00	120	\$17.00	\$2,040.00	244	\$17.00	\$4,148.00	248	\$17.00	\$4,216.00	662	\$17.00	\$11,254.00
575-1	Sodding (Traffic Calming)	SV	53	\$3.00	\$158.67		\$3.00	\$0.00	22	\$3.00	\$67.00	6	\$3.00	\$16.67	81	\$3.00	\$242.33
700-1	Traffic Signs (Permanent)	EA	4	\$300.00	\$1,200.00	6	\$300.00	\$1,800.00	12	\$300.00	\$3,600.00	12	\$300.00	\$3,600.00	34	\$300.00	\$10,200.00
700-20	Single Post Sign (C 12 SF) (Allendale)	AS		\$325.00	\$0.00		\$325.00	\$0.00		\$325.00	\$0.00		\$325.00	\$0.00	0	\$325.00	\$0.00
706-1	Reflective Pavement Markers	EA		\$5.00	\$0.00		\$5.00	\$0.00	56	\$5.00	\$280.00	56	\$5.00	\$280.00	112	\$5.00	\$560.00
711-1	Thermoplastic Marking	SF		\$2.00	\$0.00	20	\$2.00	\$40.00		\$2.00	\$0.00		\$2.00	\$0.00	20	\$2.00	\$40.00
948-1A	4" Schedule 40 PVC Pipe	LF		\$8.00	\$0.00		\$8.00	\$0.00		\$8.00	\$0.00		\$8.00	\$0.00	0	\$8.00	\$0.00
Total Base Bid					\$47,545.53			\$44,248.92			\$78,659.48			\$78,923.24			\$241,337.69

Note: Unit costs are based on FDOTs Basis of Estimates 12-month Average Cost for Area 13 - Miami-Dade Count

**VILLAGE OF KEY BISCAYNE
WEST WOOD DRIVE TRAFFIC CALMING
CONSTRUCTION COST ESTIMATE COMPARISON**

ORIGINAL DESIGN (with UPDATED COSTS)

(1 - Traffic Circle @ Fernwood Rd, 1 - Traffic Circle @ Woodcrest Rd, 1 - Elevated T-Intersection @ Hampton Ln, 1 - Median Divider between Allendale Rd & Curtiswood Dr)

SCHEDULE OF BID ITEMS-W. Wood Traffic Calming Improvements			Sheet C-9 Median Divider			Sheet C-10 Elevated T-Intersection			Sheet C-11 Traffic Circle @ Woodcrest			Sheet C-12 Traffic Circle @ Fernwood			UPDATED COST (ORIGINAL DESIGN)			
Item No.	Description	Unit	Estimated Quantity	Unit Cost	Total	Estimated Quantity	Unit Cost	Total	Estimated Quantity	Unit Cost	Total	Estimated Quantity	Unit Cost	Total	Estimated Quantity	Unit Cost	Total	
100-1	Allowance Account	LS	0.25	\$10,000.00	\$2,500.00	0.25	\$10,000.00	\$2,500.00	0.25	\$10,000.00	\$2,500.00	0.25	\$10,000.00	\$2,500.00	1	\$10,000.00	\$10,000.00	
101-1	Mobilization (Traffic Calming)	LS	0.25	\$10,000.00	\$2,500.00	0.25	\$10,000.00	\$2,500.00	0.25	\$10,000.00	\$2,500.00	0.25	\$10,000.00	\$2,500.00	1	\$10,000.00	\$10,000.00	
101-2	Indemnification	LS	0.25	\$25.00	\$6.25	0.25	\$25.00	\$6.25	0.25	\$25.00	\$6.25	0.25	\$25.00	\$6.25	1	\$25.00	\$25.00	
101-3	Performance and Payment Guaranty & Insurance	LS	0.25	\$8,600.00	\$2,150.00	0.25	\$8,600.00	\$2,150.00	0.25	\$8,600.00	\$2,150.00	0.25	\$8,600.00	\$2,150.00	1	\$8,600.00	\$8,600.00	
102-1	Maintenance of Traffic (Traffic Calming) (5%)	LS	0.25	\$25,000.00	\$6,250.00	0.25	\$25,000.00	\$6,250.00	0.25	\$25,000.00	\$6,250.00	0.25	\$25,000.00	\$6,250.00	1	\$25,000.00	\$25,000.00	
110-1	Clearing and Grubbing (Traffic Calming)	LS	0.25	\$15,000.00	\$3,750.00	0.25	\$15,000.00	\$3,750.00	0.25	\$15,000.00	\$3,750.00	0.25	\$15,000.00	\$3,750.00	1	\$15,000.00	\$15,000.00	
120-1	Grading (Traffic Calming)	LS	0.25	\$15,000.00	\$3,750.00	0.25	\$15,000.00	\$3,750.00	0.25	\$15,000.00	\$3,750.00	0.25	\$15,000.00	\$3,750.00	1	\$15,000.00	\$15,000.00	
160-4	12" Stabilized Subgrade	SY	49	\$13.50	\$666.25	47	\$13.50	\$628.65	100	\$13.50	\$1,343.70	89	\$13.50	\$1,196.70	283	\$13.50	\$3,825.30	
200-1	Limerock Base, Primed (8" Thick)	SY	49	\$15.00	\$729.17	47	\$15.00	\$698.50	100	\$15.00	\$1,493.00	89	\$15.00	\$1,329.67	283	\$15.00	\$4,250.33	
210-1	Reworking Limerock Base	SY	486	\$10.50	\$5,104.17	466	\$10.50	\$4,888.50	995	\$10.50	\$10,451.00	886	\$10.50	\$9,307.67	2834	\$10.50	\$29,752.33	
337-1	SP-9.5 Superpave Asphalt Concrete (1-1/2" Thick)	TN	19	\$116.00	\$2,193.93	19	\$116.00	\$2,211.73	45	\$116.00	\$5,184.80	36	\$116.00	\$4,160.61	119	\$116.00	\$13,751.08	
380-1A	Driveway Restoration (Asphalt) (Traffic Calming)	SY		\$50.00	\$0.00		\$50.00	\$0.00	37	\$50.00	\$1,866.11	101	\$50.00	\$5,061.83	139	\$50.00	\$6,927.94	
380-1B	Driveway Restoration (Concrete) (Traffic Calming)	SY		\$62.50	\$0.00	26	\$62.50	\$1,639.38		\$62.50	\$0.00		\$62.50	\$0.00	26	\$62.50	\$1,639.38	
380-1C	Driveway Restoration (Specialty) (Traffic Calming)	SY		\$75.00	\$0.00	29	\$75.00	\$2,147.17	54	\$75.00	\$4,057.33		\$75.00	\$0.00	83	\$75.00	\$6,204.50	
526-1	Brick Pavers (Traffic Calming)	SY	253	\$55.00	\$13,933.33	233	\$55.00	\$12,808.89	445	\$55.00	\$24,487.22	445	\$55.00	\$24,475.00	1376	\$55.00	\$75,704.44	
400-1	Concrete, Class I (Substructure)	CY		\$200.00	\$0.00		\$200.00	\$0.00		\$200.00	\$0.00		\$200.00	\$0.00	0	\$200.00	\$0.00	
425-1	Inlets	EA	1	\$4,000.00	\$4,000.00	1	\$4,000.00	\$4,000.00	3	\$4,000.00	\$12,000.00	3	\$4,000.00	\$12,000.00	8	\$4,000.00	\$32,000.00	
425-2	Manholes	EA	1	\$4,000.00	\$4,000.00		\$4,000.00	\$0.00	1	\$4,000.00	\$4,000.00	1	\$4,000.00	\$4,000.00	3	\$4,000.00	\$12,000.00	
425-4	Adjust Inlets	EA		\$400.00	\$0.00		\$400.00	\$0.00		\$400.00	\$0.00		\$400.00	\$0.00	0	\$400.00	\$0.00	
425-5	Adjust Manholes	EA		\$570.00	\$0.00	1	\$570.00	\$570.00	1	\$570.00	\$570.00	1	\$570.00	\$570.00	3	\$570.00	\$1,710.00	
425-6	Adjust Valve Boxes, Fire Hydrants, Meter Boxes and Cleanouts	EA		\$150.00	\$0.00		\$150.00	\$0.00		\$150.00	\$0.00		\$150.00	\$0.00	0	\$150.00	\$0.00	
425-7	Modify Inlets	EA		\$500.00	\$0.00		\$500.00	\$0.00		\$500.00	\$0.00		\$500.00	\$0.00	0	\$500.00	\$0.00	
425-8	Modify Manholes	EA		\$680.00	\$0.00	1	\$680.00	\$680.00	1	\$680.00	\$680.00	1	\$680.00	\$680.00	3	\$680.00	\$2,040.00	
425-9	Convert Inlet to Manhole	EA	1	\$1,000.00	\$1,000.00		\$1,000.00	\$0.00	1	\$1,000.00	\$1,000.00		\$1,000.00	\$0.00	2	\$1,000.00	\$2,000.00	
430-1A	Storm Sewer Pipe (15" HDPE)	LF	15	\$73.00	\$1,095.00	7	\$73.00	\$511.00	122	\$73.00	\$8,906.00	35	\$73.00	\$2,555.00	178	\$73.00	\$13,067.00	
430-1B	Storm Sewer Pipe (18" HDPE)	LF		\$73.00	\$0.00		\$73.00	\$0.00		\$73.00	\$0.00		\$73.00	\$0.00	0	\$73.00	\$0.00	
430-2	Additional Bedding	LF		\$5.00	\$0.00		\$5.00	\$0.00		\$5.00	\$0.00		\$5.00	\$0.00	0	\$5.00	\$0.00	
520-1A	Type "E" Concrete Curb and Gutter	LF	208	\$26.00	\$5,408.00		\$26.00	\$0.00		\$26.00	\$0.00		\$26.00	\$0.00	208	\$26.00	\$5,408.00	
520-1B	Type "E" Concrete Curb and Gutter (Reinforced)	LF	126	\$35.00	\$4,410.00	108	\$35.00	\$3,784.00	256	\$35.00	\$8,960.00	280	\$35.00	\$9,800.00	770	\$35.00	\$26,964.00	
520-1C	Type "E" Concrete Curb and Gutter (Modified)	LF		\$23.00	\$0.00		\$23.00	\$0.00	57	\$23.00	\$1,311.00		\$23.00	\$0.00	57	\$23.00	\$1,311.00	
520-1D	Type "D" Curb	LF		\$25.00	\$0.00	66	\$25.00	\$1,650.00		\$25.00	\$0.00		\$25.00	\$0.00	66	\$25.00	\$1,650.00	
520-1E	Concrete Band (Roadway) (Colored)	LF	50	\$25.00	\$1,250.00	120	\$25.00	\$3,000.00	244	\$25.00	\$6,100.00	248	\$25.00	\$6,200.00	662	\$25.00	\$16,550.00	
675-1	Sodding (Traffic Calming)	SY	53	\$3.50	\$185.11		\$3.50	\$0.00	22	\$3.50	\$78.17	6	\$3.50	\$19.44	81	\$3.50	\$282.72	
700-1	Traffic Signs (Permanent)	EA	4	\$325.00	\$1,300.00	6	\$325.00	\$1,950.00	12	\$325.00	\$3,900.00	12	\$325.00	\$3,900.00	34	\$325.00	\$11,050.00	
700-20-	Single Post Sign (< 12 SF) (Allendale)	AS		\$325.00	\$0.00		\$325.00	\$0.00		\$325.00	\$0.00		\$325.00	\$0.00	0	\$325.00	\$0.00	
706-1	Reflective Pavement Markers	EA		\$5.65	\$0.00		\$5.65	\$0.00	56	\$5.65	\$316.40	56	\$5.65	\$316.40	112	\$5.65	\$632.80	
711-1	Thermoplastic Marking	SF		\$2.00	\$0.00	20	\$2.00	\$40.00		\$2.00	\$0.00		\$2.00	\$0.00	20	\$2.00	\$40.00	
948-1A	4" Schedule 40 PVC Pipe	LF		\$8.00	\$0.00		\$8.00	\$0.00		\$8.00	\$0.00		\$8.00	\$0.00	0	\$8.00	\$0.00	
Total Base Bid						\$66,171.21			\$62,125.04				\$117,610.98			\$106,478.58		\$352,385.81

Note: Unit costs are based on FDOTs Basis of Estimates 12-month Average Cost for Area 13 = Miami-Dade County

Approximately 4% mark-up per year for 10 years = 40%
 New Item

**VILLAGE OF KEY BISCAWAY
WEST WOOD DRIVE TRAFFIC CALMING
CONSTRUCTION COST ESTIMATE COMPARISON**

REVISED DESIGN (with UPDATED COSTS)

(1 - Choke Down @ Fernwood Rd, 1 - Choke Down @ Woodcrest Rd, 1 - Elevated T-Intersection @ Hampton Ln, 1 - Speed Table between Allendale Rd & Curtiswood Dr)

SCHEDULE OF BID ITEMS-W. Wood Traffic Calming Improvements			Sheet C-9 Speed Table			Sheet C-10 Elevated T-Intersection			Sheet C-11 Choke Down @ Woodcrest			Sheet C-12 Choke Down @ Fernwood			UPDATED COST (REVISED DESIGN)		
Item No.	Description	Unit	Estimated Quantity	Unit Cost	Total	Estimated Quantity	Unit Cost	Total	Estimated Quantity	Unit Cost	Total	Estimated Quantity	Unit Cost	Total	Estimated Quantity	Unit Cost	Total
100-1	Allowance Account	LS	0.25	\$10,000.00	\$2,500.00	0.25	\$10,000.00	\$2,500.00	0.25	\$10,000.00	\$2,500.00	0.25	\$10,000.00	\$2,500.00	1	\$10,000.00	\$10,000.00
101-1	Mobilization (Traffic Calming)	LS	0.25	\$10,000.00	\$2,500.00	0.25	\$10,000.00	\$2,500.00	0.25	\$10,000.00	\$2,500.00	0.25	\$10,000.00	\$2,500.00	1	\$10,000.00	\$10,000.00
101-2	Indemnification	LS	0.25	\$25.00	\$6.25	0.25	\$25.00	\$6.25	0.25	\$25.00	\$6.25	0.25	\$25.00	\$6.25	1	\$25.00	\$25.00
101-3	Performance and Payment Guaranty & Insurance	LS	0.25	\$8,600.00	\$2,150.00	0.25	\$8,600.00	\$2,150.00	0.25	\$8,600.00	\$2,150.00	0.25	\$8,600.00	\$2,150.00	1	\$8,600.00	\$8,600.00
102-1	Maintenance of Traffic (Traffic Calming) (5%)	LS	0.25	\$25,000.00	\$6,250.00	0.25	\$25,000.00	\$6,250.00	0.25	\$25,000.00	\$6,250.00	0.25	\$25,000.00	\$6,250.00	1	\$25,000.00	\$25,000.00
110-1	Clearing and Grubbing (Traffic Calming)	LS	0.25	\$15,000.00	\$3,750.00	0.25	\$15,000.00	\$3,750.00	0.25	\$15,000.00	\$3,750.00	0.25	\$15,000.00	\$3,750.00	1	\$15,000.00	\$15,000.00
120-1	Grading (Traffic Calming)	LS	0.25	\$15,000.00	\$3,750.00	0.25	\$15,000.00	\$3,750.00	0.25	\$15,000.00	\$3,750.00	0.25	\$15,000.00	\$3,750.00	1	\$15,000.00	\$15,000.00
160-4	12" Stabilized Subgrade	SY	14	\$13.50	\$189.00	47	\$13.50	\$636.75	78	\$13.50	\$1,059.00	10	\$13.50	\$135.00	150	\$13.50	\$2,025.00
200-1	Limerock Base, Primed (8" Thick)	SY	14	\$15.00	\$210.00	47	\$15.00	\$705.00	78	\$15.00	\$1,170.00	10	\$15.00	\$150.00	150	\$15.00	\$2,250.00
210-1	Reworking Limerock Base	SY	137	\$10.50	\$1,438.50	466	\$10.50	\$4,893.00	793	\$10.50	\$8,316.75	101	\$10.50	\$1,060.50	1497	\$10.50	\$15,718.50
337-1	SP-9.5 Superpave Asphalt Concrete (1-1/2" Thick)	TN	7	\$118.00	\$826.00	19	\$118.00	\$2,242.00	60	\$118.00	\$7,080.00	78	\$118.00	\$9,104.00	164	\$118.00	\$19,352.00
380-1A	Driveway Restoration (Asphalt) (Traffic Calming)	SY		\$50.00	\$0.00		\$50.00	\$0.00	37	\$50.00	\$1,850.00	20	\$50.00	\$1,000.00	57	\$50.00	\$2,840.00
380-1B	Driveway Restoration (Concrete) (Traffic Calming)	SY		\$62.50	\$0.00	26	\$62.50	\$1,625.00		\$62.50	\$0.00	28	\$62.50	\$1,750.00		\$62.50	\$0.00
380-1C	Driveway Restoration (Specialty) (Traffic Calming)	SY		\$75.00	\$0.00	29	\$75.00	\$2,175.00	54	\$75.00	\$4,050.00		\$75.00	\$0.00	83	\$75.00	\$6,225.00
526-1	Brick Pavers (Traffic Calming)	SY	53	\$55.00	\$2,915.00	233	\$55.00	\$12,815.00	47	\$55.00	\$2,585.00	92	\$55.00	\$5,060.00	424	\$55.00	\$23,420.00
400-1	Concrete, Class I (Substructure)	CY	12	\$200.00	\$2,400.00	52	\$200.00	\$10,400.00	10	\$200.00	\$2,000.00	20	\$200.00	\$4,000.00	84	\$200.00	\$16,800.00
425-1	Inlets	EA	0	\$4,000.00	\$0.00	0	\$4,000.00	\$0.00	0	\$4,000.00	\$0.00	0	\$4,000.00	\$0.00	0	\$4,000.00	\$0.00
425-2	Manholes	EA	0	\$4,000.00	\$0.00	0	\$4,000.00	\$0.00	0	\$4,000.00	\$0.00	0	\$4,000.00	\$0.00	0	\$4,000.00	\$0.00
425-4	Adjust Inlets	EA		\$400.00	\$0.00		\$400.00	\$0.00		\$400.00	\$0.00		\$400.00	\$0.00	0	\$400.00	\$0.00
425-5	Adjust Manholes	EA		\$570.00	\$0.00	1	\$570.00	\$570.00	1	\$570.00	\$570.00	1	\$570.00	\$570.00	3	\$570.00	\$1,710.00
425-6	Adjust Valve Boxes, Fire Hydrants, Meter Boxes and Cleanouts	EA		\$150.00	\$0.00		\$150.00	\$0.00		\$150.00	\$0.00		\$150.00	\$0.00	0	\$150.00	\$0.00
425-7	Modify Inlets	EA		\$500.00	\$0.00		\$500.00	\$0.00		\$500.00	\$0.00		\$500.00	\$0.00	0	\$500.00	\$0.00
425-8	Modify Manholes	EA		\$680.00	\$0.00	0	\$680.00	\$0.00	0	\$680.00	\$0.00	0	\$680.00	\$0.00	0	\$680.00	\$0.00
425-9	Convert Inlet to Manhole	EA	0	\$1,000.00	\$0.00	0	\$1,000.00	\$0.00	0	\$1,000.00	\$0.00	0	\$1,000.00	\$0.00	0	\$1,000.00	\$0.00
430-1A	Storm Sewer Pipe (15" HDPE)	LF	0	\$73.00	\$0.00	0	\$73.00	\$0.00	0	\$73.00	\$0.00	0	\$73.00	\$0.00	0	\$73.00	\$0.00
430-1B	Storm Sewer Pipe (18" HDPE)	LF		\$73.00	\$0.00		\$73.00	\$0.00		\$73.00	\$0.00		\$73.00	\$0.00	0	\$73.00	\$0.00
430-2	Additional Bedding	LF		\$5.00	\$0.00		\$5.00	\$0.00		\$5.00	\$0.00		\$5.00	\$0.00	0	\$5.00	\$0.00
520-1A	Type "E" Concrete Curb and Gutter	LF		\$26.00	\$0.00		\$26.00	\$0.00		\$26.00	\$0.00		\$26.00	\$0.00	0	\$26.00	\$0.00
520-1B	Type "E" Concrete Curb and Gutter (Reinforced)	LF		\$35.00	\$0.00	108	\$35.00	\$3,780.00	256	\$35.00	\$8,960.00	280	\$35.00	\$9,800.00	644	\$35.00	\$22,540.00
520-1C	Type "E" Concrete Curb and Gutter (Modified)	LF		\$23.00	\$0.00		\$23.00	\$0.00	57	\$23.00	\$1,311.00		\$23.00	\$0.00	57	\$23.00	\$1,311.00
520-1D	Type "D" Curb	LF	64	\$25.00	\$1,600.00	66	\$25.00	\$1,650.00		\$25.00	\$0.00		\$25.00	\$0.00	130	\$25.00	\$3,250.00
520-1E	Concrete Band (Roadway) (Colored)	LF	78	\$25.00	\$1,950.00	120	\$25.00	\$3,000.00	244	\$25.00	\$6,100.00	218	\$25.00	\$5,450.00	658	\$25.00	\$16,450.00
575-1	Sodding (Traffic Calming)	SY	32	\$3.50	\$112.00		\$3.50	\$0.00	22	\$3.50	\$77.00	6	\$3.50	\$21.00	60	\$3.50	\$210.00
700-1	Traffic Signs (Permanent)	EA	4	\$325.00	\$1,300.00	6	\$325.00	\$1,950.00	12	\$325.00	\$3,900.00	8	\$325.00	\$2,600.00	30	\$325.00	\$9,750.00
700-20	Single Post Sign (< 12 SF) (Allendale)	AS			\$0.00		\$325.00	\$0.00			\$0.00			\$0.00			\$0.00
706-1	Reflective Pavement Markers	EA		\$5.65	\$0.00		\$5.65	\$0.00	58	\$5.65	\$327.70	18	\$5.65	\$101.70	74	\$5.65	\$418.10
711-1	Thermoplastic Marking	SF		\$2.00	\$0.00	20	\$2.00	\$40.00		\$2.00	\$0.00		\$2.00	\$0.00	20	\$2.00	\$40.00
848-1A	4" Schedule 40 PVC Pipe	LF		\$8.00	\$0.00		\$8.00	\$0.00		\$8.00	\$0.00		\$8.00	\$0.00	0	\$8.00	\$0.00
Total Base Bid						\$33,652.62		\$67,284.64		\$68,226.70		\$69,993.38		\$231,241.33			

Note: Unit costs are based on FDOTs Basis of Estimates 12-month Average Cost for Area 13 = Miami-Dade Count

Approximately 4% mark-up per year for 10 years = 40%
 New Item
 Stormwater related Items - Installed under Water & Sewer Project

EXHIBIT D

Village of Key Biscayne

Capital Improvement Plan for FY 2010

Adopted on December 8, 2009

Project Name	Description	Project Manager	Project Cost
EMS Update- Safety Pads	Fire- Safety Pads	John Gilbert	\$65,000
Village Green North Dog Run	Establish Dog Run with the following: Fence, Water Fountain for adult children and dogs, irrigation, grading, tree removal, landscaping, walkways from Crandon Blvd and Fernwood Rd.	Todd Hofferberth	\$67,500
Ocean Lane Pump Station Upgrade	Pump station upgrade- SFWMD Matching Grant	Ramon Castella/ Armando Nunez- Legislation	\$280,000
Galleria Shopping Center- Golf Cart Plan	Pathway from fernwood Rd. to parking lot on private property	Jud Kurlancheek/ Press	\$15,000
West Wood Drive Traffic Calming	Traffic Calming on West Wood Drive	Armando Nunez/Jud Kurlancheek	\$222,543
Village Green North Field Lighting	Permanent lighting	Todd Hofferberth	\$176,066
Village Green South Field Lighting	Permanent lighting	Todd Hofferberth	\$198,980
Lightning Detectors	Village Green/Pool	Todd Hofferberth	\$17,000
Stormwater Wells	Redevelopment of existing Stormwater wells- SFWMD Matching Grants	Ramon Castella/Armando Nunez- Legislation	\$225,000
EMS Update-Defibrillators	Fire- Defibrillators	John Gilbert	\$55,000
Prevention - Technology Update	Fire	John Gilbert	\$48,200

Village of Key Biscayne
 Capital Improvement Plan for FY 2010
 Adopted on December 8, 2009

Project Name	Description	Project Manager	Project Cost
Tot Lot Landscape Barrier	Plant landscape surrounding the tot lot area on the Village Green	Todd Hofferberth	\$10,000
Underground Power, Telephone, and Cable Lines	Study feasibility of burying all power, telephone, and cable lines.	Ramon Castella	\$244,129
Road Resurfacing- South Zone 2/3	From W. Mashta Fountain south to the end of Harbor Drive, Island Drive, Mariner Drive, Knollwood, and Cape Florida Drive (out to bid on 3/8/10)	Ramon Castella/ Armando Nunez- Legislation	\$208,242
Community Center Equipment	Replacement- Process?	Todd Hofferberth	\$431,178
Communication System	Fire- Update Radio P25	John Gilbert	\$57,750
Bedia Plazas - Second Project	Design/Construct 2 addition Bedia Plazas	Jud Kurlancheek	\$150,000
Fire Hose	10 Year Replacement Cycle (2013)	John Gilbert	\$17,870
Village-wide Landscape Master Plan	Harbor Drive, Bellsouth, and W Mashta (Cost \$100,000)	Armando Nunez	\$482,127
Community Center Expansion	Design - Second Floor	Todd Hofferberth/ Jud Kurlancheek	\$115,193
Traffic Circle Maintenance	Maintenance	Armando Nunez	\$50,000
Harbor Drive Street Lighting and Resurfacing	Install streetlights from 200 Harbor Drive to W. Heather Drive	Ramon Castella	\$264,000
Beach Renourishment	Design and Permit	Armando Nunez	\$440,000
Village Goes Green - Design & Installation	Implement green technology into the Village Green - specific projects have yet to be determined	Henny	\$38,451

Village of Key Biscayne

Capital Improvement Plan for FY 2010

Adopted on December 8, 2009

Project Name	Description	Project Manager	Project Cost
Police Department Server Replacement	Replace dispatch software and mobile communication software	Charles Press/ Jose Calvo	\$26,400
Maintain and Enhance Existing Landscaping	Villagewide	Armando Nunez	\$200,000
Bury power lines between 560 Crandon (Fire Rescue Station) and new office building	Village 50% share. Owner of 560 Crandon will pay 50%.	Ramon Castella	\$25,000
Library- Golf Cart Plan	Parking Spaces in the Sonesta Dr. right of way. Council action is not necessary. Project to be completed by Public Works in June.	Jud Kurlancheek/ Press	\$5,000
Village Green Improvements	Playground equipment replacement	Todd Hofferberth	\$40,000
104 Crandon Blvd.- Golf Cart Plan	Pathway on private property from Fernwood Rd to wall. This project is subject to the private property expanding the existing 4 ft. opening to 6 ft.	Jud Kurlancheek/ Press	\$1,000
Winn Dixie- Golf Cart Plan	Pathway from fernwood Rd. to parking lot. This project is subject to the private property owner agreeing to the pathway.	Jud Kurlancheek/ Press	\$1,000
Seagrass Mitigation and Restoration	Seagrass restoration/mitigation as required by regulatory agencies	Armando Nunez	\$803,721
Beach Renourishment	Renourishment- Award contract	Armando Nunez	\$3,100,000

Village of Key Biscayne

Capital Improvement Plan for FY 2010

Adopted on December 8, 2009

Project Name	Description	Project Manager	Project Cost
Traffic Calming Plan	Prepare Traffic Calming Plan- After Westwood Traffic Calming is completed	Jud Kurlancheek/Armando Nunez	\$15,000
Purchase Parking Lot Behind Village Hall at 88 W. Enid Drive	Purchase lot from Miami-Dade County.	Chip Iglesias	\$2,800,000
Land Acquisition Reserve	Purchase land for recreational facility	Chip Iglesias	\$1,000,000
Purchase and Install New Building Permit System	Install new internet based Building Permit System to replace the software that was bought in 1999.	Jud Kurlancheek/ Mike Fleming	\$250,000
Calusa Park Site Plan Preparation	Site approval thru Village zoning process and County approval process	Chip/ City Attorney/ Jud Kurlancheek	\$20,000
Calusa Park Design & Permit	Design and permit through regulatory agencies	Jud Kurlancheek	\$128,000
Calusa Park Construction	Construct improvements	Ramon Castella	\$1,600,000
Calusa Park Improvements/ Linkage to Harbor Drive-Construction	Pathway improvements from Calusa Park to Harbor Drive along church/shopping center easement	Ramon Castella	\$28,000
Total			\$13,922,350