Agenda Item: **3F8**

PALM BEACH COUNTY
BOARD OF COUNTY COMMISSIONERS
AGENDA ITEM SUMMARY

Meeting Date: November 21, 2006 [X] Consent [ ] Regular
[ ] Workshop [ ] Public Hearing

Department:

Submitted By: Department of Airports

Submitted For:

I. EXECUTIVE BRIEF

Motion and Title: Staff recommends motion to approve: Change Order No. 2 to the contract with James A. Cummings, Inc. in the amount of $263,493.00 for the Long Term Parking Garage Project at Palm Beach International Airport (PBIA).

Summary: On May 16, 2006 the BCC approved the Construction Contract (R2006-0842) with James A. Cummings, Inc. for construction services for the Long Term Parking Garage at PBIA in the amount of $61,666,000.00. On August 28, 2006 the Department of Airports approved Change Order No 1. in the amount of $15,750.00 for additional dewatering. Approval of Change Order No. 2 will provide funds to complete the following items: Replacement of high voltage Primary Electric Feeders to the Terminal and Existing Parking Garage and associated work; and Revenue Control and High Mast Duct Bank Relocation and associated work. There is no additional contract time associated with this work. The Small Business Enterprise (SBE) participation for this Change Order is 0%; the vendor has already exceeded the SBE goal. Countywide (JCM)

Background and Justification: The new parking garage is being constructed at a previously developed site and various underground utilities have to be relocated to accommodate the new garage. The design requires the contractor to relocate portions of the main power feed to the Terminal Facility. The project design provided for the installation of new high voltage cables in new duct banks but did not provide for new high voltage cables for the entire electrical run of the main power feed. Logistics of task would require contractor to remove existing cables while intercepting existing duct bank with new, reinstalling existing cables, and terminating same to new cables. Due to the age (20 years) of the existing cables, it was decided that excessive handling could cause damage, which would necessitate emergency procurement/replacement and could leave the Terminal Facility without redundancy (two power feeders) for an extended period. This change order will replace any portion of high voltage cables (emergency and primary to the existing terminal and garage) which have to be disturbed and minimize the potential for interruption of power service to the Terminal Facility. In addition, there are two duct banks that serve the revenue control building and an adjacent high mast light pole. These duct banks are in conflict with the elevator tower for the new parking structure and must be relocated.

Attachments:

1. Change Order #2 (3 originals)

Recommended By: _____ 10/27/06
Department Director **Date**

Approved By: _____ 11/14/06
County Administrator **Date**

II. FISCAL IMPACT ANALYSIS

A. Five Year Summary of Fiscal Impact:

Fiscal Years	2007	2008	2009	2010	2011
Capital Expenditures	263,493.00				
Operating Costs					
External Revenues (Grants)					
Program Income (County)					
In-Kind Match (County)					
NET FISCAL IMPACT	263,493.00				
# ADDITIONAL FTE POSITIONS (Cumulative)					

Is Item Included in Current Budget? Yes X No _____

Budget Account No: Fund 4117 Department 121 Unit A270 Object 6502
Reporting Category _____

B. Recommended Sources of Funds/Summary of Fiscal Impact:

Funds are available in the account referenced above.

C. Departmental Fiscal Review: CM Simmons

III. REVIEW COMMENTS

A. OFMB Fiscal and/or Contract Development and Control Comments:

11-7-06
OFMB
11/7/2006 adw 11.7.06 10-31-06

11/9/06
Contract Dev. and Control
This item complies with current County policies.

B. Legal Sufficiency:

11/13/06
Assistant County Attorney

C. Other Department Review:

_____
Department Director

REVISED 9/03
ADM FORM 01
(THIS SUMMARY IS NOT TO BE USED AS A BASIS FOR PAYMENT)

CHANGE ORDER

___x__ Owner Initiate
_____ Differing Site Conditions
_____ Zoning/Code/Ordinance Changes
_____ Errors/Omissions/In Design
_____ Quantity Overruns/Underruns
_____ Request By Another Agency/Outside Party
____ A. Reimbursable ____ B. Non-Reimbursable
_____ Other

PROJECT: Long Term Parking Structure, II PBIA
TO: James A Cummings, Inc
2101 Centerpark West Dr, Ste 160
West Palm Beach, Fl. 33409

CHANGE ORDER NO: TWO (2)
COUNTY/FAA PROJECT NO: PB 05-3
CONTRACT DATE: 5/16/2006
RESOLUTION: R2006-0842
DISTRICT #2

You are directed to make the following changes to this Contract:
Replacement of 15KV Primary Electric Feeders to Terminal and Existing Parking Garage and associated work, as described in Department of Airports RFQ #8 and Cummings Cost Proposal #20 dated October 24, 2006.
For the total amount of..... $243,704.00

Revenue Control and High Mast Duct Bank Relocation and associated work, as described in Cummings RFQ#7 and Cost Proposal #14 dated October 16, 2006.
For the total amount of..... $19,789.69 GR

Please see "attached"

IT IS UNDERSTOOD AND AGREED THAT THE ACCEPTANCE OF THIS CHANGE ORDER BY THE CONTRACTOR CONSTITUTES AN ACCORD AND SATISFACTION AND REPRESENTS PAYMENT IN FULL (FOR TIME AND MONEY) FOR ALL COSTS ARISING OUT OF, OR INCIDENTAL TO, THE ABOVE STATED CHANGE ORDER.

The original Contract sum was.	$61,666,000.00
Net change by previous Change Orders	$ 15,750.00
The Contract Sum prior to this Change Order was	$61,681,750.00
The Contract Sum will be increased by this Change Order	$ 263,493.69 GR
The new Contract Sum including Change Order will be	$61,945,243.69 GR
The Contract Time will be unchanged by	(0) Days.
The Date of Completion as of the date of this Change Order therefore is	November 2, 2007

WALKER PARKING CONSULTANTS	JAMES A CUMMINGS	PBC BD OF CNTY COMMISSIONERS
ENGINEER	CONTRACTOR	OWNER
4902 EISENHOWER BLVD, STE. 281	2101 CENTERPARK WEST DR, STE 160	PO BOX 21229
ADDRESS	ADDRESS	ADDRESS
TAMPA, FLORIDA 33634	WEST PALM BEACH, FL 33409	WEST PLM BCH, FL. 33406
BY: Gary S. Rudis	BY:	BY:
DATE: 10/26/06	DATE: 10/25/06	DATE:

PALM BEACH COUNTY ENGINEERING AND PUBLIC WORKS

ATTEST: ~~Dorothy H. Wilken~~ Sharon R. Bock
~~Clerk of the Circuit Court~~ Clerk & Comptroller

By: _____
(Deputy Clerk) Date

APPROVED AS TO TERMS AND CONDITIONS:

By: _____
Director of ~~Airports~~

Approved as to Form and Legal Sufficiency:

_____
County Attorney) Date

Cummings
General Contractors
A Perini Company

James A. Cummings, Inc.
General Contractors

West Palm Beach Office
2101 Centrepark West Drive, Suite 160
West Palm Beach, FL 33409
Phone: (561) 655-1982
Fax: (561) 655-1985

October 24, 2006

CH2M Hill
800 Fairway Drive
Suite 350
Deerfield, FL 33634

Attention: Ron Mattingly

RE: Palm Beach County Department of Airports
Long Term Parking Structure No. 2
CP # 20 (RFQ #8) Furnish and Install Additional 15 kv Feeders (Cost Proposal)

Dear Mr. Mattingly,

Attached herewith, please find the breakdown of costs, along with back-up, totaling $243,704.00 to Furnish and Install additional 15 kv feeders in accordance with Request for Quotation (RFQ) #8 dated October 23, 2006.

Please review and issue a Change Order to the contract in order to authorize James A. Cummings.Inc. to proceed with the work. We respectfully reserve our right to request additional time should it become apparent this work will delay the completion of the Project.

This Proposal will remain in effect for a period of fifteen (15) days. Acceptance subsequent to this time shall be subject to review and change.

Sincerely
James A. Cummings, Inc.

Stewart Coulter
Project Manager

cc: Jerry Allen, DOA
Phil Woodard, DOA
John Church, JAC
Geoff Bunnell, JAC
File – Cost Proposal #20

CP # 20 SUMMARY

PROJECT - **#06-3-91** **PBIA - LONG TERM PARKING GARAGE #2**

Cummings General Contractors
A Parlini Company

DATE: 10/24/06

ITEM	DESCRIPTION	UNIT	NO.	LABOR	MATERIAL	SUBCONTRACT
	Hypower Electric (Install new 15 KV Feeders)					$210,941.41
	Hypower Electric (Remove 549 Sq. Yd. Asphalt & Supply and Place Limerock)					$3,409.54
	Mora Engineering (Replace 549 Sq. Yd. Aasphalt)					$9,350.00
	JAC (Layout)			$200.00		
	JAC (Supervision)			$2,200.00		
	JAC (Clean-up)			$200.00	$800.00	
	JAC (Safety)			$220.00	$100.00	
	Subtotal			**$2,820.00**	**$900.00**	**$223,700.95**
	FSST				$58.50	
	PTI			$910.58		
	Subtotal			**$3,730.58**	**$958.50**	**$223,700.95**

Net Totals:	
Labor (L)	$3,730.58
Material (M)	$958.50
Subcontract (S)	$223,700.95
Subtotal	**$228,390.03**
Bonds	$2,283.90
Insurance	$1141.95
Subtotal	**$3,425.85**
Net Total	**$228,390.03**
O/H &P (5%)	**$11,185.05**
O/H &P (15%)	**$703.36**
TOTAL	**$243,704.29**

HYPOWER INC.

5913 Northwest 31st Avenue Fort Lauderdale, FL 3309 Phone: 954-978-9300 Fax: 954-978-8666

Date: 10/13/2006

Project: Palm Beach County Department of Airports
Long Term Parking Structure No 2
Project Number: 759
Proposal: # RCO #0759-03 Revised
Subject: Install new cables for manhole relocation as per manhole locations shown on civil drawings.

Attention: Stewart Coulter

Contractor: James A Cummings, Inc.

Dear Mr. Coulter,

We propose to increase our existing contract total by the amount of one hundred sixty three thousand one hundred forty eight dollars and fifty two cents **($163,148.52 base price)** for installing the 15kv feeders to complete the relocation of the manholes that are in conflict with the proposed location of elevator tower.

Justifications

- The civil drawings state that the contractor should install new manholes around the existing duct banks. The civil drawings failed to take into account that these duct banks are live 15kv lines that are the main source of power to the terminal.

- The civil drawings do not clearly show replacing any of the cables between manholes MH-4 and new MH-5. The feeders between these 2 manholes happen to be 4 sets of 3-#500 MCM (15kv) and 1 set of 3-#2/0 (15kv) cables.

- At the corner of the existing garage, the civil drawings show 2 round circles called "E" that look like existing pull boxes. The actual manholes are located 300 feet west of the "E" pull boxes.

- Furthermore, the drawings do not show any cable size for any of the feeders going to the existing garage. The normal feeder serving the existing garage is 1 set of 3-#2/0 (15kv). The emergency feeder serving the existing garage is 1 set of 3-#500 (5kv) even though the as-built drawing calls for#1/0 (5kv).

Pricing

We have split our RCO in many sections.

- Part I includes all cable runs except the emergency feeder from the terminal to the existing garage. The cost is $163,148.52

- Part II includes additional conduit necessary to get to the two existing garage manholes located on the south side of the garage. This cost is $7,139.47.

- Alternate I include the partial replacement of the existing emergency garage feeder from the existing manhole MH-1B to the existing manhole at existing garage T4 using #500MCM (5kv). The cost is $78,153.37

- Alternate II include the total replacement of the existing emergency garage feeder from the existing switchgear ACB-15 to the existing 5kv garage transformer using #1/0 (5kv). The cost is $40,653.42.

- Alternate III include the installation of an emergency generator with transfer switch to feed emergency panel EDP. The normal power to the transfer switch would come from panel MDP. The cost is $19,177.53.

- Alternate IV includes the rental of the emergency generator. The cost is $45,474.00

Pedestrian Bridges, Revenue Control Plaza
Fort Lauderdale Airport
Hypower, Inc.
October 13, 2006

Excluded

- Restoration of existing sidewalk, asphalt pavement, and sod.

Hypower has already purchased the 15kv feeder cables. Please advise on the 5kv cables. Hypower will proceed with the work upon issuance of a proceed order from Cummings-Centex.

Very truly yours,
Hypower Inc.

Mario Avin
Senior Project Manager

HYPOWER INC.

REQUEST FOR CHANGE ORDER
ESTIMATE WORKSHEET

PROJECT: Palm Beach Int'l Airport Parking Garage #2 *Date: 10/3/2006* *ESTIMATE No. RCO# 759-03 Part I*
DESCRIPTION : Manhole Relocation - Feeder Cables for Primary and Back-up to Terminals. --- Normal Feeder Cables to Garage
OWNER :Palm Beach County Aviation Dept *CONSTRUCTION MANAGER : James A Cummings Inc*

Unit of Measure	Qty.	DESCRIPTION	Cost/Unit	MATERIAL	Labor Unit	EXT. LAB. HRS
ft	6420	#500 MCM (15kv) from new manhole MH-5A4	$ 15.54	$ 99,766.80	0.0725	465.45
		to existing manhole MH-1A (main electric room)		$ -		0.00
				$ -		0.00
ft	675	#2/0 (15kv) from corner of existing garage to	$ 6.57	$ 4,434.75	0.0375	25.31
		to existing manhole MH-Na		$ -		0.00
				$ -		0.00
ft	7095	Remove existing cable		$ -	0.0200	141.90
				$ -		0.00
				$ -		0.00
				$ -		0.00
				$ -		
ea	12	#500 MCM (15kv) splices	$ 250.00	$ 3,000.00	5.3000	63.60
ea	0	#2/0 (15kv) splices	$ 241.00	$ -	3.8750	0.00
ft	2000	#1 Cu 600v. Green ground cable	$1.4850	$ 2,970.00	0.0250	50.00
ft	225	#4 Cu 600v. Green ground cable	$0.7460	$ 167.85	0.0172	3.87
				$ -	0.0275	0.00
				SUB-TOTAL	**$110,339.40**	**750.13**
				Sales Tax @ 6.00%	$6,620.36	
				TOTALS	$116,959.76	750.13

NON-PRODUCTIVE LABOR		COST
FOREMAN HOURS		0
FOREMAN LABOR RATE		$0.00
FOREMAN LABOR COST		$0.00
FORE. LABOR BURDEN (57.42)		$0.00
TOTAL		$0.00

JOB EXPENSES		DOLLARS
PROJ. MGMT. @ 0.00 %		$0.00
PROJ. ENGINEERING @ 0.00 %		$0.00
SPECIAL INSURANCE		
PERMIT & INSPECTION FEES		N/C
EXPENDABLE TOOLS @ 3.00%		$727.78
F-150 Truck	1 unit x 16 days	$2,064.00
1-Ton box van	1 unit x 16 days	$1,776.00
Wire Trailer	1 unit x 10 days	$470.00
SuperTugger/ Puller	1 unit x 10 days	$1,110.00
Air Compressor	1 unit x 10 days	$950.00
Backhoe		
Compactor		
		$0.00
		$7,097.78

SUBCONTRACTORS	
TOTAL	$0.00

JOB DURATION	Average Labor Rate with Burden	
ALTERNATES	Direct Labor	$24,259.29
	LABOR BURDEN @ 0.00 %	$0.00
	LABOR COST	$24,259.29
	FOREMAN LABOR COST	$0.00
	MATERIAL COST	$116,959.76
	EXPENSE COST	$7,097.78
	TOTAL PRIME COST	$148,316.83
	SUBCONTRACTORS	$0.00
	SUB-TOTAL	$148,316.83
	CONTRACTOR MARKUP @ 10.00	$14,831.68
	SELLING PRICE	$163,148.52
		$0.00
NOTES:	**TOTAL SALE**	**$163,148.52**

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http://www.hypowerinc.com

HYPOWER INC.

REQUEST FOR CHANGE ORDER
ESTIMATE WORKSHEET

PROJECT: Palm Beach Int'l Airport Parking Garage #2 *Date: 10/03/2006* *ESTIMATE No. RCO# 759-03 PART II*
DESCRIPTION : Manhole Relocation - Additional Conduit for Both Garage Feeders.
OWNER :Palm Beach County Aviation Dept *CONSTRUCTION MANAGER : James A Cummings Inc*

Unit of Measure	Qty.	DESCRIPTION	Cost/Unit	MATERIAL	Labor Unit	EXT. LAB. HRS
lf	175	Excavation for 2W6 ductbank		$ -	0.0915	16.01
lf	600	Install 6" PVC conduit	$ 2.75	$ 1,650.00	0.0400	24.00
cy	18.23	Place concrete	$ 115.00	$ 2,096.35	0.1500	2.73
lf	175	Backfill & Compact		$ -	0.0915	16.01
				$ -		0.00
				$ -		0.00
				$ -		0.00
				$ -		0.00
				$ -		0.00
				$ -		0.00
				$ -		0.00
				$ -		0.00
				$ -		0.00
				$ -		0.00
				$ -		0.00
				$ -		0.00

NON-PRODUCTIVE LABOR		COST
FOREMAN HOURS		0
FOREMAN LABOR RATE		$0.00
FOREMAN LABOR COST		$0.00
FORE. LABOR BURDEN (57.42)		$0.00
TOTAL		$0.00

JOB EXPENSES		DOLLARS
PROJ. MGMT. @ 0.00 %		$0.00
PROJ. ENGINEERING @ 0.00 %		$0.00
SPECIAL INSURANCE		
PERMIT & INSPECTION FEES		N/C
EXPENDABLE TOOLS @ 3.00%		$57.01
F-150 Truck	1 unit x 1 day	$129.00
1-Ton box van	1 unit x 1 day	$111.00
Wire Trailer		$0.00
SuperTugger/ Puller		$0.00
Air Compressor		$0.00
Backhoe	1 unit x 1 day	$322.00
Compactor	1 unit x 1 day	
		$0.00
		$619.01

SUBCONTRACTORS	
TOTAL	$0.00

SUB-TOTAL	$3,746.35
Sales Tax @ 6.00%	$224.78
TOTALS	$3,971.14
JOB DURATION	58.76
ALTERNATES	
NOTES:	

Average Labor Rate with Burden	$32.34
Direct Labor	$1,900.28
LABOR BURDEN @ 0.00 %	$0.00
LABOR COST	$1,900.28
FOREMAN LABOR COST	$0.00
MATERIAL COST	$3,971.14
EXPENSE COST	$619.01
TOTAL PRIME COST	$6,490.42
SUBCONTRACTORS	$0.00
SUB-TOTAL	$6,490.42
CONTRACTOR MARKUP @ 10.00	$649.04
SELLING PRICE	$7,139.47
	$0.00
TOTAL SALE	**$7,139.47**

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http://www.hypowerinc.com

HYPOWER INC.

REQUEST FOR CHANGE ORDER
ESTIMATE WORKSHEET

PROJECT: Palm Beach Int'l Airport Parking Garage #2 *Date: 10/07/2006* *ESTIMATE No. RCO# 759-03 ALTERNATE II*
DESCRIPTION : Manhole Relocation - Total Replacement of Emergency Power to Existing Garage using #1/0 (5kv).
OWNER :Palm Beach County Aviation Dept *CONSTRUCTION MANAGER : James A Cummings Inc*

Unit of Measure	Qty.	DESCRIPTION	Cost/Unit	MATERIAL	Labor Unit	EXT. LAB. HRS
ft	1815	#1/0 (5kv) from new manhole EMH-5A to existing	4.455	$ 8,085.83	0.0375	68.06
		gear ACB-15 via existing emerg. manhole MH-IB		$ -		0.00
ft	2250	#1/0 (5kv) from new manhole EMH-5A to existing	4.455	$ 10,023.75	0.0375	84.38
		transformer @ garage T-4		$ -		0.00
ft	1285	#1/0 Cu 600v. Green ground cable	1.684	$ 2,163.94	0.0275	35.34
		to existing garage manhole for EM power		$ -		0.00
				$ -		0.00
	4065	Remove existing cable		$ -	0.0200	81.30
				$ -		0.00
ea	9	#1/0 (5kv) splice	98.000	$ 882.00	3.6750	33.08
ea	3	#1/0 (5kv) termination @ existing gear ACB-15	98.000	$ 294.00	3.6750	11.03
ea	3	#1/0 Loadbreak term. @ exist. garage transformer	$ 150.00	$ 450.00	3.6750	11.03
				$ -		0.00
				$ -		0.00
				$ -		0.00
				$ -		0.00
				$21,899.52		**324.20**

NON-PRODUCTIVE LABOR	COST
FOREMAN HOURS	0
FOREMAN LABOR RATE	$0.00
FOREMAN LABOR COST	$0.00
FORE. LABOR BURDEN (57.42)	$0.00
TOTAL	$0.00

JOB EXPENSES		DOLLARS
PROJ. MGMT. @ 0.00 %		$0.00
PROJ. ENGINEERING @ 0.00 %		$0.00
SPECIAL INSURANCE		
PERMIT & INSPECTION FEES		N/C
EXPENDABLE TOOLS @ 3.00%		$314.54
F-150 Truck	1 unit x 7 days	$903.00
1-Ton box van	1 unit x 7 days	$777.00
Wire Trailer	1 unit x 5 days	$235.00
SuperTugger/ Puller	1 unit x 5 days	$555.00
Air Compressor	1 unit x 5 days	$475.00
Backhoe		
Compactor		
		$0.00
		$3,259.54

SUBCONTRACTORS	
TOTAL	$0.00

SUB-TOTAL	
Sales Tax @ 6.00%	$1,313.97
TOTALS	$23,213.49
JOB DURATION	
ALTERNATES	
NOTES:	

Average Labor Rate with Burden	$32.34
Direct Labor	$10,484.63
LABOR BURDEN @ 0.00 %	$0.00
LABOR COST	$10,484.63
FOREMAN LABOR COST	$0.00
MATERIAL COST	$23,213.49
EXPENSE COST	$3,259.54
TOTAL PRIME COST	$36,957.65
SUBCONTRACTORS	$0.00
SUB-TOTAL	$36,957.65
CONTRACTOR MARKUP @ 10.00	$3,695.77
SELLING PRICE	$40,653.42
	$0.00
TOTAL SALE	**$40,653.42**

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HYPOWER INC.

REQUEST FOR CHANGE ORDER
ESTIMATE WORKSHEET

PROJECT: Palm Beach Int'l Airport Parking Garage #2 Date: 10/07/2006 ESTIMATE No. RCO# 759-03 Part III

DESCRIPTION : Manhole Relocation - Asphalt removal to JAC dumpster

OWNER :Palm Beach County Aviation Dept CONSTRUCTION MANAGER : James A Cummings Inc

Unit of Measure	Qty.	DESCRIPTION	Cost/Unit	MATERIAL	Labor Unit	EXT. LAB. HRS
SQ. yd	540	Removal of asphalt pavement to JAC dumpster		$ -	0.045	24.30
				$ -		0.00
				$ -		0.00
				$ -		0.00
				$ -		0.00
				$ -		0.00
				$ -		0.00
				$ -		0.00
				$ -		0.00
				$ -		0.00
				$ -		0.00
				$ -		0.00
				$ -		0.00
				$ -		0.00
				$ -		0.00
				$ -		0.00
				$ -		0.00

NON-PRODUCTIVE LABOR	COST	SUB-TOTAL	$0.00		24.30
FOREMAN HOURS	0				
FOREMAN LABOR RATE	$0.00	Sales Tax @ 6.00%	$0.00		
FOREMAN LABOR COST	$0.00	TOTALS	$0.00		
FORE. LABOR BURDEN ($7.42)	$0.00	JOB DURATION	Average Labor Rate with Burden		$32.34
TOTAL	$0.00		Direct Labor		$785.86
JOB EXPENSES	DOLLARS	ALTERNATES	LABOR BURDEN @ 0.00 %		$0.00
PROJ. MGMT. @ 0.00 %	$0.00		LABOR COST		$785.86
PROJ. ENGINEERING @ 0.00 %	$0.00		FOREMAN LABOR COST		$0.00
SPECIAL INSURANCE			MATERIAL COST		$0.00
PERMIT & INSPECTION FEES	N/C		EXPENSE COST		$345.58
EXPENDABLE TOOLS @ 3.00%	$23.58		TOTAL PRIME COST		$1,131.44
F-150 Truck			SUBCONTRACTORS		$0.00
1-Ton box van					
Wire Trailer			SUB-TOTAL		$1,131.44
SuperTugger/ Puller			CONTRACTOR MARKUP @ 10.00		$113.14
Air Compressor			SELLING PRICE		$1,244.58
Backhoe	$322.00				$0.00
Compactor		NOTES:	TOTAL SALE		$1,244.58
	$0.00				
	$345.58				
SUBCONTRACTORS					
TOTAL	$0.00				

#2 30/50 YD.

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HYPOWER INC.

REQUEST FOR CHANGE ORDER
ESTIMATE WORKSHEET

PROJECT: Palm Beach Int'l Airport Parking Garage #2 *Date: 10/16/2006* *ESTIMATE No. RCO# 750-03 Alternate V*

DESCRIPTION : Manhole Relocation - Install Limerock

OWNER :Palm Beach County Aviation Dept *CONSTRUCTION MANAGER : James A Cummings Inc*

Unit of Measure	Qty.	DESCRIPTION	Cost/Unit	MATERIAL	Labor Unit	EXT. LAB. HRS
Ton	22	Install limerock @ road repair	22.500	$ 495.00	1.09	24.00
				$ -		0.00
				$ -		0.00
				$ -		0.00
				$ -		0.00
				$ -		0.00
				$ -		0.00
				$ -		0.00
				$ -		0.00
				$ -		0.00
				$ -		0.00
				$ -		0.00
				$ -		0.00
				$ -		0.00
				$ -		0.00
				$ -		0.00

NON-PRODUCTIVE LABOR	COST	SUB-TOTAL	$495.00		24.00
FOREMAN HOURS	0				
FOREMAN LABOR RATE	$0.00	Sales Tax @ 6.00%	$29.70		
FOREMAN LABOR COST	$0.00	TOTALS	$524.70		24.00
FORE. LABOR BURDEN (57.42)	$0.00	JOB DURATION	Average Labor Rate with Burden		$32.34
TOTAL	$0.00		Direct Labor		$776.16
JOB EXPENSES	DOLLARS	ALTERNATES	LABOR BURDEN @ 0.00 %		$0.00
PROJ. MGMT. @ 0.00 %	$0.00		LABOR COST		$776.16
PROJ. ENGINEERING @ 0.00 %	$0.00		FOREMAN LABOR COST		$0.00
SPECIAL INSURANCE			MATERIAL COST		$524.70
PERMIT & INSPECTION FEES	N/C		EXPENSE COST		$667.28
EXPENDABLE TOOLS @ 3.00%	$29.28		TOTAL PRIME COST		$1,968.14
F-150 Truck			SUBCONTRACTORS		$0.00
1-Ton box van					
Wire Trailer			SUB-TOTAL		$1,968.14
SuperTugger/ Puller			CONTRACTOR MARKUP @ 10.00		$196.81
Air Compressor			SELLING PRICE		$2,164.96
Backhoe	$322.00				$0.00
Compactor	$322.00	NOTES:	TOTAL SALE		$2,164.96
	$0.00				
	$667.28				
SUBCONTRACTORS					
TOTAL	$0.00				

5913 N. W. 31st Avenue, Fort Lauderdale, Florida 33009 - Phone: (954)978-9300 - Fax: (954)978-8086
http://www.hypowerinc.com

COMMUNITY ASPHALT CORP.

QUOTATION

RECEIVED
OCT 12 2006
M.E.C., INC.
CC: Ed

☐ 14005 N.W. 186th Street
Hialeah Florida 33018
Ph: (305) 829-0700
Fax: (305) 829-877[illegible]

☐ 5100 29th Court
Vero Beach, FL 32967
Ph: (772) 770-3771
Fax: (772) 770-3707

☒ 7795 Hooper Road
West Palm Beach, FL 33411
Ph.: (561) 790-6467
Fax: (561) 790-1073

Today's Date: 10/12/06

Project: Change Order PB Airport
Location: WPB
Owner:

Contractor: Mora
Phone: 954-752-8065
Attention: Ed
Fax: 954-345-9268

Item No.	Description	Quantity	Price	Unit	Total Extension
	2" TYPE S-3 ASPHALT	50.00	$170.00	TON	$ 8,500.00
				TOTAL	$ 8,500.00

Additional Move-ins @ $3,500.00

Cold Mix$ ____ per ton (FOB) ☒ Move-ins Confirmed 1 ☒ Prime Add $.40/SY
Cold Mix$ ____ per 50lb bag (FOB) ☐ Temporary Pavement $ ____ ☒ Tack Included
☐ MBE Confirmed ____ ☐ Bond Add ____

Remarks:

Note: Prices are firm through April 1, 2007 and may be subject to escalation thereafter.

8500.00
Mora Markup - 10% 850.00
Total Price $9350.00

Need letter by Tuesday 10-17-06

Exclusions:
Maintenance Of Traffic
Engineering, Staking, Layout
Sawcutting or removals of any kind, unless stated above.
Field testing
Permits
Striping
Pressure Cleaning

Submitted by: Ron Pendergrast - Paving Operations Manager

Accepted by: ____

MEMORANDUM CH2MHILL

TO: Phil Woodard, Construction Coordinator DOA

FROM: Ron Mattingly, P.E.
Construction Manager, CH2M Hill

DATE: October 18, 2006

RE: Review of Cummings Cost Proposal No. 20
Supply and Install Additional 15 kv Electrical Feeders

Phil,

I have reviewed Cummings Cost Proposal No. 20 and found the prices to be reasonable and all the mark-ups to be in accordance with the provisions of the contract. The backup documentation of my pricing evaluation is attached.

Please advise if you would like me to move forward with preparation of a Change Order for this additional work.

Thanks
Ron

CH2MHILL

SUBJECT: Review Of Cummings Cost Proposal #20 - Additional 15kV Cable

BY: Ron Mattingly DATE: 10/17/06

PROJECT NUMBER: SHEET 1 OF 12

Hypower RCO #759-03 PART I

Note:

1. Cable Prices Were Obtained From 2006 National Electrical Estimator (NEE). Prices From NEE Were Developed Early In 2006. Price Increases In Copper Have Resulted In 30-50% Increases From NEE Prices (Per CH2M Electrical Estimating Dept. In Milwaukee, WS)

#500 MCM (15K) Cable

Material - (Bare Cost)

Price From 2006 NEE = $11.40/Ft

w/ 40% Price Increase Due To Increase Copper =

$11.40 x 1.4 = $15.96/Ft

∴ Hypower Price ($15.54/Ft) < $15.96/Ft

⟹ Price OK

Labor - (Bare Cost)

Labor Price From 2006 NEE = $1.42/LF

Labor Cost From 2006 Means = $3.73/LF

Avg = $2.58/LF

Hypower Price ($2.35/LF)

Hypower Price Price ($2.35/LF) < $2.58/LF

⟹ Price OK

REV 11/01 FORM 3B

CH2MHILL

SUBJECT: Review Cost Proposal #20

BY: [illegible] DATE:

PROJECT NUMBER: SHEET 2 OF 12

#2/0 (15kV) CABLE

∴ MATERIAL – (BARE COST)

PRICE FROM 2006 NEE = $4.93/Ft

W/ 40% INCREASE DUE

TO INCREASE IN COPPER = $6.90/Ft

HYPOWER PRICE ($6.57/Ft) < $6.90/Ft

⟹ PRICE OK

LABOR – (BARE COST)

~~LABOR~~ PRICE FROM 2006 NEE = $0.95/Ft

" " " 2006 MEANS = $2.58/Ft

AVG = $1.77/Ft

∴

HYPOWER PRICE ($1.21/Ft)

~~HYPOWER~~ PRICE ($1.21/Ft) < $1.77/Ft

⟹ PRICE OK

REMOVE EXISTING CABLE (7,095' OF #500mcm)

LABOR PRICE FROM 2006 MEANS = $0.42/LF

HYPOWER LABOR COST = $0.65/LF

HYPOWER PRICE IS HIGH BUT NOT OUTRAGEOUS.

TOTAL LABOR COST FOR THIS ITEM $4.6K

REV 11/01 FORM 3B

REMOVE EXISTING CABLE (CONT.)

∴ PRICE DIFFERENCE FAIRLY INSIGNIFICANT.

⟹ PRICE OK

#500 MCM (15KV) SPLICES

MATERIAL – (BARE COST)

PRICE FROM MEANS = $252/EA

PRICE FROM HYPOWER ($250/EA) ≈ $252/EA ⟹ OK

LABOR – (BARE COST)

FROM MEANS = $120/EA

FROM HYPOWER ($171/EA) – REASONABLY CLOSE ⟹ OK

#1 CU 600 V. GREEN GROUND CABLE

MATERIAL – (BARE COST)

PRICE FROM 2006 MEANS = $1.00/FT

ASSUMING 40% INCREASE SINCE PRINTING

∴ OF BOOK ⟹ REVISED PRICE =

$1.00/FT × 1.4 = $1.40/FT

HYPOWER PRICE ($1.485/FT) ≈ $1.40/FT

⟹ PRICE OK

LABOR – (BARE COST)

PRICE FROM 2006 MEANS = $0.84/FT

HYPOWER PRICE ($0.81/FT) < $0.84/FT

⟹ PRICE OK

CH2MHILL

SUBJECT: Review CP #20

BY: [illegible] DATE:

PROJECT NUMBER: SHEET 4 OF 12

#4 Cu. 600 V Green Ground Cable

Material -

Cost from Means = $0.50/Ft

Assuming 40% Increase = $0.70/Ft

Hypower Cost ($0.7460/Ft) ≈ $0.70/Ft

⇒ Price OK

Labor -

From Means = $0.64/Ft

Hypower Price ($0.56/Ft) < $0.64/Ft

⇒ Price OK

- Job Expenses Cost Of $7,097.18 Seems ∴ Reasonable

- Subcontractor Mark-Up Of 10% Is In Accordance With Contract

Summary - Hypowers Price Of $163,148.52 Seems Fair & Reasonable

CH2MHILL

SUBJECT: REVIEW CP #20

BY: ROW DATE:

PROJECT NUMBER: SHEET 5 OF 12

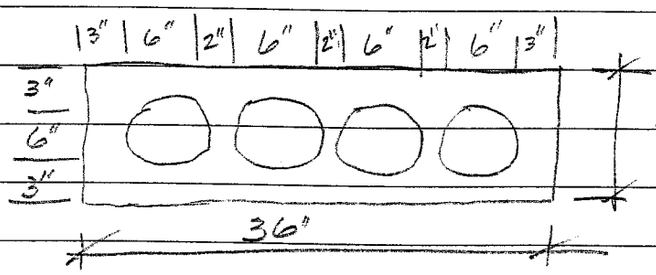
HYPOWER RCO #759-03, PART II

THIS WORK INVOLVES EXTENDING (2) 2W-6" DUCT BANKS APPROX 175' WEST OF THE AS-DESIGNED LOCATION SO THAT THE DUCT WILL NOW EXTEND TO 2 EXISTING MANHOLES WEST OF THE SE CORNER OF THE EXISTING GARAGE. THE DUCT IS ESSENTIALLY A 4W-6".

FROM 2006 MEANS, UNIT COST PER FOOT FOR 4W-6", INCLUDING O&P = $35.00/LF (THIS DOES NOT INCLUDE EXCAVATION, BACKFILL, AND CIP CONCRETE)

CONDUITS ONLY = 175' x $35/LF

= $6,125



END AREA 6" PIPE = $\frac{\pi(.5)^2}{4}$ = 0.20 ft²

END AREA DUCT =

(1' x 3') - 4(0.20 ft²) = 2.2 ft²

REV 11/01 FORM 3B

CH2MHILL

SUBJECT: Review CP #20

BY: Ron DATE:

PROJECT NUMBER: SHEET 6 OF 12

Conc. For Duct Bank

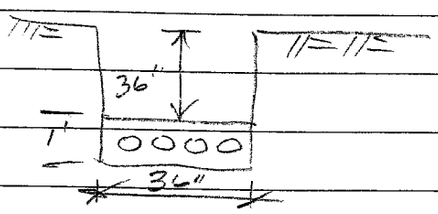
$\frac{175' \times 2.2\ ft^2}{27} = 14\ cyd$

Conc. Cost (Material Only)

14 cy @ $110/cyd = $1,540

Excavation –

From 2006 Means – Excavation, Structural, Sand & Gravel w/ 3/4 cyd Bucket, Cost Including O&P = $13.25/cyd



Excavation Vol. = $\frac{4' \times 3' \times 175'}{27}$

= 78 cyd.

Excav. Cost = 78 cyd @ $13.25/cyd

= $1,033

CH2MHILL

SUBJECT: Review CP #20

BY: Ron DATE:

PROJECT NUMBER: SHEET 7 OF 12

~~Backfill~~ & Compact (Assuming Fin. Pavement Section Consisting Of 12" Rock Base w/ 1 1/2" Asphalt Surface Case.

~~Backfill~~ —

From 2000, Compaction w/ Vibrating Plate Cost Including O&P = $28.71/cy

Backfill Vol. $= \frac{3' \times 2' \times 175'}{27}$

$= 39$ cyd

Backfill Cost = $1,119

Per Means, Total Cost =

Conduits ($6,125) + Conc. ($1,540) + Excav. ($1,033) + Backfill ($1,119) =

= $9,817

Hypower Price ($7,139.47) < $9,817

⟹ Price OK

CH2MHILL

SUBJECT: Review CP #20

BY: RON DATE:

PROJECT NUMBER: SHEET 8 OF 12

Hypower RCO #759-03, Alternate 1

#1/0 5KV CABLE

MATERIAL

Price from 2006 NEE = $3.39/LF

w/ 40% Increase Price = $4.75/LF

Hypower Price ($4.455/Ft) < $4.75/Ft

⇒ Price OK

LABOR

From 2006 NEE = $0.75/LF

From 2006 Means = $2.32/LF

Avg $1.54/LF

∴ Hypower Price ($1.22/LF) < $1.54/LF

⇒ Price OK

REV 11/01 FORM 3B

CH2MHILL

SUBJECT: REVIEW OF #20

BY: RON DATE:

PROJECT NUMBER: SHEET 9 OF 12

#1/0 Cu 600V GREEN GND CABLE

MATERIAL -

PRICE FROM 2006 MEANS = $1.11/LF

W/ 40% INCREASE = $1.55/LF

HYPOWER PRICE ($1.684/LF), REASONABLY CLOSE TO $1.55

⟹ PRICE OK

LABOR -

PRICE FROM 2006 MEANS = $1.02/LF

HYPOWER PRICE ($0.89/LF) < $1.02/LF

⟹ PRICE OK

REMOVAL OF EXISTING CABLE

PRICE OF $0.65/LF EVALUATED

SHT 2, OK

#1/0 SKV SPLICE

FROM 2006 MEANS, BARE COST (LAB & MAT)

= $205.50/EA

HYPOWER COST $98 + 118.85 = $216.85/EA

HYPOWER PRICE ($216.85), REASONABLY CLOSE TO

$205.50 ⟹ PRICE OK

CH2MHILL

SUBJECT: Review CP #20

BY: Rod DATE:

PROJECT NUMBER: SHEET 10 OF 12

#1/0 Termination @ ACB-15

From 2006 Means, Bare Cost Total = $150.5/EA
Hypower Cost $98 + $118.85 = $216.85
Hypowers Price Is Kind Of High
But Considering There Are Only
3EA Of These It Is Probably Not
Worth Arguing About

#1/0 Loadbreak Termination

From 2006 Means, Cost = $150/EA
Hypowers Price $150 + $118 = $268
Again, Hypower Is A Little
High But There Are Only
∴ 3EA Of These

Summary - Hypowers Labor & Material
Prices Are Reasonable, Job
Expenses Are Reasonable,
Mark-Ups Are In Accordance
With Contract

CH2MHILL

SUBJECT: Review CP #20

BY: RDN DATE:

PROJECT NUMBER: SHEET 11 OF 12

Hypower RCO # 759-03 Part III

This Estimate Includes Saw Cutting And Removing Ex. Asphalt Pavement In Premimum Parking Area So That Duct Bank Extension Can Be Installed.

From 2006 Means, Total Cost (Including O&P) = $4.11/sy

Hypowers Price ($2.30/sy) < $4.11/sy ⟹ Price OK

Hypower RCO # 759-03 Part V

This Estimate Includes Instalation Of Manhole Base Case. Where The Duct Bank Extension Is Installed.

Typical Price Per Ton From Other Projects ⟹ $42/Ton

Hypower Price ($98.40/Ton) Is Pretty High. However This Is A Very Small Quantity (22 Tons) Which Might Be Considered Justification For The Hight Unit Cost

REV 11/01 FORM 3B

CH2MHILL

SUBJECT: REVIEW CP #20

BY: RJJ DATE:

PROJECT NUMBER: SHEET 12 OF 12

COMMUNITY ASPHALT / MORA QUOTE FOR TYPE S-3 ASPHALT

BID TABS FROM UTILITY PROJECT BID IN FT. LAUDERDALE 5/3/06, UNIT PRICES FOR S-3 ASPHALT RANGED FROM $163 - $185 / TON.

CA'S PRICE OF $170 / TON IS IN THE BALLPARK

REV 11/01 FORM 3B

	Craft@Hrs	Unit	Material	Labor	Total
5000 volt cross-linked polyethylene non-shielded copper (XLP) power cable					
# 6 [view picture]	L2@14.0	KLF	779.00	474.00	1,253.00
# 4	L2@16.0	KLF	1,050.00	542.00	1,592.00
# 2	L2@18.0	KLF	1,470.00	609.00	2,079.00
# 1/0	L3@22.0	KLF	2,150.00	745.00	2,895.00
# 2/0	L3@24.0	KLF	2,640.00	813.00	3,453.00
# 4/0	L3@28.0	KLF	3,910.00	948.00	4,858.00
#350 KCMIL	L3@34.0	KLF	6,070.00	1,150.00	7,220.00
#500 KCMIL	L3@36.0	KLF	8,630.00	1,220.00	9,850.00
5000 volt cross-linked polyethylene tape shielded copper (XLP) power cable					
# 6 [view picture]	L2@14.0	KLF	1,890.00	474.00	2,364.00
# 4	L2@16.0	KLF	2,180.00	542.00	2,722.00
# 2	L2@18.0	KLF	2,650.00	609.00	3,259.00
# 1/0	L3@22.0	KLF	3,390.00	745.00	4,135.00
# 2/0	L3@24.0	KLF	4,150.00	813.00	4,963.00
# 4/0	L3@28.0	KLF	5,550.00	948.00	6,498.00
# 350 KCMIL	L3@34.0	KLF	8,290.00	1,150.00	9,440.00
# 500 KCMIL	L3@36.0	KLF	10,600.00	1,220.00	11,820.00
5000 volt ethylene-propylene-rubber tape shielded copper (EPR) power cable					
# 2	L2@20.0	KLF	3,510.00	677.00	4,187.00
# 1/0	L3@26.0	KLF	4,360.00	880.00	5,240.00
# 2/0	L3@28.0	KLF	4,930.00	948.00	5,878.00
# 4/0	L3@32.0	KLF	6,470.00	1,080.00	7,550.00
# 350 KCMIL	L3@38.0	KLF	9,200.00	1,290.00	10,490.00
# 500 KCMIL	L3@42.0	KLF	11,400.00	1,420.00	12,820.00

Use these figures to estimate the cost of medium-voltage copper power cable used for the primary service under the conditions described on pages 5 and 6. Costs listed are for each 1,000 linear feet installed. The crew is two electricians for sizes to #1 and three or four electricians for sizes over #1. Cost per manhour is $33.86. These costs include fishing string, reel set-up, pulling gear set-up, phase identification, pulling compound, layout, material handling, and normal waste. Add for terminations, splices, fire-proofing, high-potential testing, sales tax, delivery, supervision, mobilization, demobilization, cleanup, overhead and profit. Note: These figures assume that cable is pulled in conduit runs of 100 feet or less and that three conductors are pulled at the same time. Keep medium-voltage cable sealed against moisture at all times.

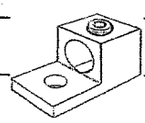
16055 | Selective Demolition

				CREW	DAILY OUTPUT	LABOR-HOURS	UNIT	2006 BARE COSTS MAT.	LABOR	EQUIP.
300	1920	2/0	R260105 -30	2 Elec	29.20	.548	C.L.F.		23	
	1930	3/0			25	.640			27	
	1940	4/0			22	.727			30.50	
	1950	250 kcmil			20	.800			33.50	
	1960	300 kcmil			19	.842			35.50	
	1970	350 kcmil			18	.889			37.50	
	1980	400 kcmil			17	.941			39.50	
	1990	500 kcmil			16.20	.988			41.50	
	2000	Interior fluorescent fixtures, incl. supports								
	2010	& whips, to 15' high								
	2100	Recessed drop-in 2' x 2', 2 lamp		2 Elec	35	.457	Ea.		19.20	
	2120	2' x 4', 2 lamp			33	.485			20.50	
	2140	2' x 4', 4 lamp			30	.533			22.50	
	2160	4' x 4', 4 lamp			20	.800			33.50	
	2180	Surface mount, acrylic lens & hinged frame								
	2200	1' x 4', 2 lamp		2 Elec	44	.364	Ea.		15.25	
	2220	2' x 2', 2 lamp			44	.364			15.25	
	2260	2' x 4', 4 lamp			33	.485			20.50	
	2280	4' x 4', 4 lamp			23	.696			29	
	2300	Strip fixtures, surface mount								
	2320	4' long, 1 lamp		2 Elec	53	.302	Ea.		12.70	
	2340	4' long, 2 lamp			50	.320			13.45	
	2360	8' long, 1 lamp			42	.381			16	
	2380	8' long, 2 lamp			40	.400			16.80	
	2400	Pendant mount, industrial, incl. removal								
	2410	of chain or rod hangers, to 15' high								
	2420	4' long, 2 lamp		2 Elec	35	.457	Ea.		19.20	
	2440	8' long, 2 lamp		"	27	.593	"		25	
	2460	Interior incandescent, surface, ceiling								
	2470	or wall mount, to 12' high								
	2480	Metal cylinder type, 75 Watt		2 Elec	62	.258	Ea.		10.85	
	2500	150 Watt		"	62	.258	"		10.85	
	2520	Metal halide, high bay								
	2540	400 Watt		2 Elec	15	1.067	Ea.		45	
	2560	1000 Watt			12	1.333			56	
	2580	150 Watt, low bay			20	.800			33.50	
	2600	Exterior fixtures, incandescent, wall mount								
	2620	100 Watt		2 Elec	50	.320	Ea.		13.45	
	2640	Quartz, 500 Watt			33	.485			20.50	
	2660	1500 Watt			27	.593			25	
	2680	Wall pack, mercury vapor								
	2700	175 Watt		2 Elec	25	.640	Ea.		27	
	2720	250 Watt		"	25	.640			27	
	7000	Weatherhead/mast, 2"		1 Elec	16	.500			21	
	7002	3"			10	.800			33.50	
	7004	3-1/2"			8.50	.941			39.50	
	7006	4"			8	1			42	
	7100	Service entry cable, #6, +#6 neutral			420	.019	L.F.		.80	
	7102	#4, +#4 neutral			360	.022			.93	
	7104	#2, +#4 neutral			345	.023			.97	
	7106	#2, +#2 neutral			330	.024			1.02	
	9000	Minimum labor/equipment charge			4	2	Job		84	
320	0010	**ELECTRICAL DEMOLITION, GROUNDING** Addition								
	0100	Ground clamp, bronze		1 Elec	64	.125	Ea.		5.25	
	0140	Water pipe ground clamp, bronze, heavy duty		"	24	.333	"		14	
	0200	Ground wire, bare armored		2 Elec	900	.018	L.F.		.75	

16 ELECTRICAL

16120 | Conductors & Cables

			CREW	DAILY OUTPUT	LABOR-HOURS	UNIT	2006 BARE COSTS MAT.	LABOR	EQUIP.	TOTAL	TOTAL INCL.
210	5720	750 kcmil	1 Elec	2.20	3.636	Ea.	198	153		351	4
	5750	1000 kcmil		2	4		264	168		432	5
	5800	15 kV, armored, #1		4	2		90.50	84		174.50	2
	5900	1/0		4	2		90.50	84		174.50	2
	6000	3/0		3.60	2.222		116	93.50		209.50	2
	6100	4/0		3.40	2.353		116	99		215	2
	6200	250 kcmil		3.20	2.500		129	105		234	2
	6300	350 kcmil		2.70	2.963		149	124		273	3
	6400	500 kcmil		2	4		149	168		317	4
220	0010	**CABLE SPLICING** URD or similar, ideal conditions									
	0100	#6 stranded to #1 stranded, 5 kV	1 Elec	4	2	Ea.	107	84		191	2
	0120	15 kV		3.60	2.222		107	93.50		200.50	2
	0140	25 kV		3.20	2.500		107	105		212	2
	0200	#1 stranded to 4/0 stranded, 5 kV		3.60	2.222		112	93.50		205.50	2
	0210	15 kV		3.20	2.500		112	105		217	2
	0220	25 kV		2.80	2.857		112	120		232	3
	0300	4/0 stranded to 500 kcmil stranded, 5 kV		3.30	2.424		252	102		354	4
	0310	15 kV		2.90	2.759		252	116		368	4
	0320	25 kV		2.50	3.200		252	134		386	4
	0400	500 kcmil, 5 kV		3.20	2.500		252	105		357	4
	0410	15 kV		2.80	2.857		252	120		372	4
	0420	25 kV		2.30	3.478		252	146		398	4
	0500	600 kcmil, 5 kV		2.90	2.759		252	116		368	4
	0510	15 kV		2.40	3.333		252	140		392	4
	0520	25 kV		2	4		252	168		420	5
	0600	750 kcmil, 5 kV		2.60	3.077		297	129		426	5
	0610	15 kV		2.20	3.636		297	153		450	5
	0620	25 kV		1.90	4.211		297	177		474	5
	0700	1000 kcmil, 5 kV		2.30	3.478		320	146		466	5
	0710	15 kV		1.90	4.211		320	177		497	6
	0720	25 kV		1.60	5		320	210		530	6
230	0010	**CABLE TERMINATIONS**									
	0015	Wire connectors, screw type, #22 to #14	1 Elec	260	.031	Ea.	.07	1.29		1.36	
	0020	#18 to #12		240	.033		.08	1.40		1.48	
	0025	#18 to #10		240	.033		.13	1.40		1.53	
	0030	Screw-on connectors, insulated, #18 to #12		240	.033		.09	1.40		1.49	
	0035	#16 to #10		230	.035		.12	1.46		1.58	
	0040	#14 to #8		210	.038		.25	1.60		1.85	
	0045	#12 to #6		180	.044		.42	1.87		2.29	
	0050	Terminal lugs, solderless, #16 to #10		50	.160		.46	6.70		7.16	
	0100	#8 to #4		30	.267		.64	11.20		11.84	
	0150	#2 to #1		22	.364		.86	15.25		16.11	
	0200	1/0 to 2/0		16	.500		2.22	21		23.22	
	0250	3/0		12	.667		2.95	28		30.95	
	0300	4/0		11	.727		2.95	30.50		33.45	
	0350	250 kcmil		9	.889		2.95	37.50		40.45	
	0400	350 kcmil		7	1.143		3.80	48		51.80	
	0450	500 kcmil		6	1.333		7.40	56		63.40	
	0500	600 kcmil		5.80	1.379		7.95	58		65.95	
	0550	750 kcmil		5.20	1.538		8.70	64.50		73.20	
	0600	Split bolt connectors, tapped, #6		16	.500		3.30	21		24.30	
	0650	#4		14	.571		4	24		28	
	0700	#2		12	.667		6.05	28		34.05	
	0750	#1		11	.727		7.65	30.50		38.15	
	0800	1/0		10	.800		7.65	33.50		41.15	



16120 | Conductors & Cables

				CREW	DAILY OUTPUT	LABOR-HOURS	UNIT	2006 BARE COSTS MAT.	LABOR	EQUIP.	TOTAL
900	0280	2/0	R260519 -90	2 Elec	5.80	2.759	C.L.F.	130	116		246
	0300	3/0			5	3.200		166	134		300
	0350	4/0	R260519 -92		4.40	3.636		206	153		359
	0400	250 kcmil		3 Elec	6	4		245	168		413
	0420	300 kcmil	R260533 -22		5.70	4.211		291	177		468
	0450	350 kcmil			5.40	4.444		340	187		527
	0480	400 kcmil			5.10	4.706		390	198		588
	0490	500 kcmil			4.80	5		480	210		690
	0500	600 kcmil			3.90	6.154		580	258		838
	0510	750 kcmil			3.30	7.273		770	305		1,075
	0520	1000 kcmil			2.70	8.889		1,000	375		1,375
	0530	Aluminum, stranded, #8		1 Elec	9	.889		17.90	37.50		55.40
	0540	#6		"	8	1		24.50	42		66.50
	0560	#4		2 Elec	13	1.231		30.50	51.50		82
	0580	#2			10.60	1.509		41	63.50		104.50
	0600	#1			9	1.778		60.50	74.50		135
	0620	1/0			8	2		72.50	84		156.50
	0640	2/0			7.20	2.222		85.50	93.50		179
	0680	3/0			6.60	2.424		106	102		208
	0700	4/0			6.20	2.581		118	108		226
	0720	250 kcmil		3 Elec	8.70	2.759		144	116		260
	0740	300 kcmil			8.10	2.963		199	124		323
	0760	350 kcmil			7.50	3.200		202	134		336
	0780	400 kcmil			6.90	3.478		237	146		383
	0800	500 kcmil			6	4		277	168		445
	0850	600 kcmil			5.70	4.211		330	177		507
	0880	700 kcmil			5.10	4.706		380	198		578
	0900	750 kcmil			4.80	5		385	210		595
	0920	Type THWN-THHN, copper, solid, #14		1 Elec	13	.615		4.25	26		30.25
	0940	#12			11	.727		6.40	30.50		36.90
	0960	#10			10	.800		9.70	33.50		43.20
	1000	Stranded, #14			13	.615		4.85	26		30.85
	1200	#12			11	.727		7.30	30.50		37.80
	1250	#10			10	.800		10.95	33.50		44.45
	1300	#8			8	1		19.70	42		61.70
	1350	#6			6.50	1.231		32.50	51.50		84
	1400	#4		2 Elec	10.60	1.509		50	63.50		113.50
	1450	#3			10	1.600		62.50	67		129.50
	1500	#2			9	1.778		79	74.50		153.50
	1550	#1			8	2		100	84		184
	1600	1/0			6.60	2.424		111	102		213
	1650	2/0			5.80	2.759		130	116		246
	1700	3/0			5	3.200		166	134		300
	2000	4/0			4.40	3.636		206	153		359
	2200	250 kcmil		3 Elec	6	4		245	168		413
	2400	300 kcmil			5.70	4.211		291	177		468
	2600	350 kcmil			5.40	4.444		340	187		527
	2700	400 kcmil			5.10	4.706		390	198		588
	2800	500 kcmil			4.80	5		485	210		695
	2900	600 volt, copper type XHHW, solid, #14		1 Elec	13	.615		6.10	26		32.10
	2920	#12			11	.727		9.25	30.50		39.75
	2940	#10			10	.800		16	33.50		49.50
	3000	Stranded, #14			13	.615		8.50	26		34.50
	3020	#12			11	.727		11.50	30.50		42
	3040	#10			10	.800		16	33.50		49.50
	3060	#8			8	1		25	42		67

Conductors & Cables

	CREW	DAILY OUTPUT	LABOR-HOURS	UNIT	2006 BARE COSTS MAT.	LABOR	EQUIP.	TOTAL	TOTAL INCL O&P
#2	2 Elec	360	.044	L.F.	8.20	1.67			
#1		300	.053		10.45	2.24			
1/0		290	.055		12.10	2.32			
2/0		260	.062		13.95	2.58			
4/0		240	.067		18.65	2.80			
250 kcmil	3 Elec	330	.073		25.50	3.05			
350 kcmil		315	.076		31.50	3.20			
500 kcmil		270	.089		38.50	3.73			
copper, 3 conductor with PVC jacket galv steel armored grounded neutral, in cable tray, #2	2 Elec	300	.053	L.F.	13.30	2.24			
#1		280	.057		14.15	2.40			
1/0		260	.062		16.35	2.58			
2/0		220	.073		21.50	3.05			
4/0		190	.084		24.50	3.54			
250 kcmil	3 Elec	270	.089		27	3.73			
350 kcmil		240	.100		32	4.20			
500 kcmil		210	.114		43	4.80			
copper, 3 conductor with PVC jacket, grounded neutral, in cable tray, #2	2 Elec	260	.062	L.F.	14.30	2.58			
#1		230	.070		15.85	2.92			
1/0		200	.080		18.15	3.36			
2/0		190	.084		22.50	3.54			
4/0		160	.100		27	4.20			
250 kcmil	3 Elec	210	.114		31.50	4.80			
350 kcmil		195	.123		41.50	5.15			
500 kcmil		180	.133		50.50	5.60			
aluminum, 3 conductor in cable tray with PVC jacket	2 Elec	540	.030	L.F.	3.16	1.24			
#2		460	.035		3.51	1.46			
#1		400	.040		4.37	1.68			
#1/0		360	.044		4.43	1.87			
#2/0		340	.047		5.20	1.98			
#3/0		320	.050		6.25	2.10			
#4/0	3 Elec	450	.053		7.55	2.24			
250 kcmil		360	.067		8.95	2.80			
350 kcmil		330	.073		11.15	3.05			
500 kcmil		285	.084		14.40	3.54			
750 kcmil									
aluminum, 4 conductor in cable tray with PVC jacket	2 Elec	520	.031	L.F.	3.62	1.29			
#2		440	.036		4.43	1.53			
#1		380	.042		5.20	1.77			
1/0		340	.047		5.30	1.98			
2/0		320	.050		6.20	2.10			
3/0		300	.053		7.30	2.24			
4/0	3 Elec	420	.057		7.80	2.40			
250 kcmil		330	.073		10.10	3.05			
350 kcmil		300	.080		12.65	3.36			
500 kcmil		270	.089		17.40	3.73			
750 kcmil									
minum, unshielded in cable tray, #2 with PVC jacket	2 Elec	380	.042		4.43	1.77			
#1 with PVC jacket		360	.044		4.95	1.87			
1/0 with PVC jacket		300	.053		5.05	2.24			
2/0 with PVC jacket		290	.055		5.20	2.32			
3/0 with PVC jacket		260	.062		6.20	2.58			
4/0 with PVC jacket		240	.067		7.30	2.80			
250 kcmil with PVC jacket	3 Elec	330	.073		8	3.05			
350 kcmil with PVC jacket		315	.076		9.35	3.20			

Elec/Communication Structures	CREW	DAILY OUTPUT	LABOR-HOURS	UNIT	2006 BARE COSTS MAT.	LABOR	EQUIP.	TOTAL	TOTAL INCL O&P	
2" diameter	1 Elec	23	.348	Ea.	2.66	14.60		17.26	25	410
3" diameter		18	.444		6.75	18.65		25.40	35.50	
4" diameter		13	.615		11.80	26		37.80	51.50	
5" diameter		11	.727		23	30.50		53.50	71	
6" diameter		8	1		28	42		70	93.50	
Bell end & cap, 1-1/2" diameter		26	.308		9	12.90		21.90	29	
Bell end & plug, 2" diameter		23	.348		9.50	14.60		24.10	32.50	
3" diameter		18	.444		11.90	18.65		30.55	41	
4" diameter		13	.615		13.90	26		39.90	54	
5" diameter		11	.727		21	30.50		51.50	68.50	
6" diameter		8	1		24	42		66	88.50	
Base spacer, 2" diameter		42	.190		1.61	8		9.61	13.65	
3" diameter		33	.242		1.78	10.20		11.98	17.15	
4" diameter		29	.276		1.88	11.60		13.48	19.30	
5" diameter		26	.308		2.31	12.90		15.21	22	
6" diameter		25	.320		3.24	13.45		16.69	23.50	
Intermediate spacer, 2" diameter		45	.178		1.40	7.45		8.85	12.70	
3" diameter		34	.235		1.78	9.90		11.68	16.70	
4" diameter		31	.258		1.88	10.85		12.73	18.20	
5" diameter		28	.286		2.31	12		14.31	20.50	
6" diameter		25	.320		3.24	13.45		16.69	23.50	
& TELEPHONE UNDERGROUND, Not including excavation, ckfill and cast in place concrete										420
ding see div. 02315-640										
round marking tape, 6" wide R337119 -30	R-19	2530	.008	L.F.	.31	.33		.64	.84	
oles, precast concrete, with concrete cover										
2' x 2' x 3' deep	R-3	2.40	8.333	Ea.	268	345	63.50	676.50	880	
3' x 3' x 3' deep		1.90	10.526		350	435	80.50	865.50	1,125	
4' x 4' x 4' deep		1.40	14.286		695	590	109	1,394	1,775	
s, precast with iron racks & pulling irons, C.I. frame and cover, 4' x 6' x 7' deep	B-13	2	28	Ea.	1,325	840	325	2,490	3,125	
6' x 8' x 7' deep		1.90	29.474		1,625	880	340	2,845	3,525	
6' x 10' x 7' deep		1.80	31.111		1,825	930	360	3,115	3,850	
und duct, banks ready for concrete fill, min. of 7.5" between conduits, ctr. to ctr.(for wire & cable see Div. 16120)										
type EB, 1 @ 2" diameter	2 Elec	480	.033	L.F.	.75	1.40		2.15	2.92	
2 @ 2" diameter		240	.067		1.50	2.80		4.30	5.80	
4 @ 2" diameter		120	.133		3	5.60		8.60	11.65	
1 @ 3" diameter		400	.040		1.03	1.68		2.71	3.63	
2 @ 3" diameter		200	.080		2.06	3.36		5.42	7.25	
4 @ 3" diameter		100	.160		4.11	6.70		10.81	14.50	
1 @ 4" diameter		320	.050		1.58	2.10		3.68	4.87	
2 @ 4" diameter		160	.100		3.16	4.20		7.36	9.70	
4 @ 4" diameter		80	.200		6.30	8.40		14.70	19.45	
6 @ 4" diameter		54	.296		9.45	12.45		21.90	29	
1 @ 5" diameter		260	.062		2.35	2.58		4.93	6.45	
2 @ 5" diameter		130	.123		4.70	5.15		9.85	12.85	
4 @ 5" diameter		70	.229		9.40	9.60		19	24.50	
6 @ 5" diameter		50	.320		14.10	13.45		27.55	35.50	
1 @ 6" diameter		200	.080		3.36	3.36		6.72	8.70	
2 @ 6" diameter		100	.160		6.75	6.70		13.45	17.40	
4 @ 6" diameter		50	.320		13.45	13.45		26.90	35	
6 @ 6" diameter		30	.533		20	22.50		42.50	55.50	
lvanized steel, 2 @ 2" diameter		180	.089		14.80	3.73		18.53	22	
4 @ 2" diameter		90	.178		29.50	7.45		36.95	43.50	

age of these items see *Means Site Work & Landscape Cost Data 2006*

02305 | Equipment	CREW	DAILY OUTPUT	LABOR-HOURS	UNIT	2006 BARE COSTS MAT.	LABOR	EQUIP.	TOTAL	TOTAL INCL O&P	
For large pieces of equipment, allow for assembly/knockdown										
For mob/demob of micro-tunneling equip, see section 02441-400										250
02315 | Excavation and Fill										
BACKFILL, GENERAL										
By hand, no compaction, light soil	1 Clab	14	.571	L.C.Y.		15.65		15.65	24.50	110
Heavy soil		11	.727	"		19.95		19.95	31	
Compaction in 6" layers, hand tamp, add to above		20.60	.388	E.C.Y.		10.65		10.65	16.55	
Roller compaction operator walking, add	B-10A	100	.120			4.03	1.26	5.29	7.55	
Air tamp, add	B-9D	190	.211			5.85	.97	6.82	10.15	
Vibrating plate, add	A-1D	60	.133			3.65	.44	4.09	6.20	
Compaction in 12" layers, hand tamp, add to above	1 Clab	34	.235			6.45		6.45	10.05	
Roller compaction operator walking, add	B-10A	150	.080			2.69	.84	3.53	5	
Air tamp, add	B-9	285	.140			3.90	.52	4.42	6.60	
Vibrating plate, add	A-1E	90	.089			2.44	.38	2.82	4.21	
Dozer backfilling, bulk, up to 300' haul, no compaction	B-10B	1200	.010	L.C.Y.		.34	.77	1.11	1.35	
Air tamped, add	B-11B	80	.200	E.C.Y.		6.25	2.45	8.70	12.30	
Compacting backfill, 6" to 12" lifts, vibrating roller	B-10C	800	.015			.50	1.72	2.22	2.67	
Sheepsfoot roller	B-10D	750	.016			.54	1.87	2.41	2.87	
Dozer backfilling, trench, up to 300' haul, no compaction	B-10B	900	.013	L.C.Y.		.45	1.02	1.47	1.81	
Air tamped, add	B-11B	80	.200	E.C.Y.		6.25	2.45	8.70	12.30	
Compacting backfill, 6" to 12" lifts, vibrating roller	B-10C	700	.017			.58	1.97	2.55	3.05	
Sheepsfoot roller	B-10D	650	.018			.62	2.15	2.77	3.31	
EXCAVATION, STRUCTURAL										
Hand, pits to 6' deep, sandy soil	1 Clab	8	1	B.C.Y.		27.50		27.50	42.50	462
Heavy soil or clay		4	2			55		55	85.50	
Pits 6' to 12' deep, sandy soil		5	1.600			44		44	68	
Heavy soil or clay		3	2.667			73		73	114	
Pits 12' to 18' deep, sandy soil		4	2			55		55	85.50	
Heavy soil or clay		2	4			110		110	171	
Common earth, hydraulic backhoe, 1/2 C.Y. bucket	B-12E	55	.291			9.55	6.10	15.65	21.50	
3/4 C.Y. bucket	B-12F	90	.178			5.80	5.30	11.10	14.75	
1 C.Y. bucket	B-12A	108	.148			4.85	5.20	10.05	13.10	
1-1/2 C.Y. bucket	B-12B	144	.111			3.64	5	8.64	11.05	
2 C.Y. bucket	B-12C	200	.080			2.62	4.60	7.22	9.05	
Sand and gravel, 3/4 C.Y. bucket	B-12F	100	.160			5.25	4.78	10.03	13.25	
1 C.Y. bucket	B-12A	120	.133			4.37	4.67	9.04	11.85	
1-1/2 C.Y. bucket	B-12B	160	.100			3.28	4.52	7.80	9.95	
2 C.Y. bucket	B-12C	220	.073			2.38	4.18	6.56	8.25	
Clay, till, or blasted rock, 3/4 C.Y. bucket	B-12F	80	.200			6.55	5.95	12.50	16.55	
1 C.Y. bucket	B-12A	95	.168			5.50	5.90	11.40	14.95	
1-1/2 C.Y. bucket	B-12B	130	.123			4.03	5.55	9.58	12.25	
2 C.Y. bucket	B-12C	175	.091			2.99	5.25	8.24	10.40	
HAULING, excavated or borrow, loose cubic yards										
no loading included, highway haulers										490
6 C.Y. dump truck, 1/4 mile round trip, 5.0 loads/hr.	B-34A	195	.041	L.C.Y.		1.16	1.68	2.84	3.62	
1/2 mile round trip, 4.1 loads/hr.		160	.050			1.42	2.04	3.46	4.42	
1 mile round trip, 3.3 loads/hr.		130	.062			1.74	2.51	4.25	5.40	
2 mile round trip, 2.6 loads/hr.		100	.080			2.27	3.27	5.54	7.05	
3 mile round trip, 2.1 loads/hr.		80	.100			2.84	4.08	6.92	8.80	
4 mile round trip, 1.8 loads/hr.		70	.114			3.24	4.67	7.91	10.10	
12 C.Y. dump truck, 1/4 mile round trip 3.7 loads/hr.	B-34B	288	.028			.79	1.66	2.45	3.02	
2 mile round trip, 2.2 loads/hr.		180	.044			1.26	2.65	3.91	4.82	
3 mile round trip, 1.9 loads/hr.		170	.047			1.33	2.80	4.13	5.10	
4 mile round trip, 1.6 loads/hr.		125	.064			1.81	3.81	5.62	6.95	

Cummings
General Contractors
A Perini Company

James A. Cummings, Inc.
General Contractors

West Palm Beach Office
2101 Centrepark West Drive, Suite 160
West Palm Beach, FL 33409
Phone: (561) 655-1982
Fax: (561) 655-1985

October 16, 2006

CH2M Hill
800 Fairway Drive
Suite 350
Deerfield, FL 33634

Attention: Ron Mattingly

RE: Palm Beach County Department of Airports
Long Term Parking Structure No. 2
CP # 14 (RFQ #7) Revenue Control and High Mast Duct Bank Relocation (Cost Proposal)

Dear Mr. Mattingly,

Attached herewith, please find the breakdown of costs, along with back-up, totaling $19,789.69 for the Revenue Control and High Mast Duct Bank Relocation as per Request for Quotation (RFQ) #7 dated August 31, 2006.

Please review and issue a Change Order to the contract in order to authorize James A. Cummings.Inc. to proceed with the work. We respectfully reserve our right to request additional time should it become apparent this work will delay the completion of the Project.

This Proposal will remain in effect for a period of fifteen (15) days. Acceptance subsequent to this time shall be subject to review and change.

Sincerely
James A. Cummings, Inc.

Stewart Coulter
Project Manager

cc: Jerry Allen, DOA
Phil Woodard, DOA
John Church, JAC
Geoff Bunnell, JAC
File – Cost Proposal #14

CP # 14 SUMMARY

PROJECT - **#06-3-91** **PBIA - LONG TERM PARKING GARAGE #2**

DATE: 10/16/06

ITEM	DESCRIPTION	UNIT	LABOR	MATERIAL	SUBCONTRACT
	HYPOWER ELECTRIC				$17,117.00
	JAC (Supervision)		$440.00		
	JAC (Clean-Up)		$100.00	$400.00	
	JAC (Safety)		$110.00	$50.00	
	Subtotal		**$650.00**	**$450.00**	**$17,117.00**
	FSST			$29.25	
	PTI		$209.88		
	Subtotal		**$859.88**	**$479.25**	**$17,117.00**
	Net Totals:				
	Labor (L) $859.88				
	Material (M) $479.25				
	Subcontract (S) $17,117.00				
	Subtotal $18,456.13				
	Bonds $184.56				
	Insurance $92.28				
	Subtotal $276.84				
	Net Total $18,456.13				
	O/H &P (5%) $855.85				
	O/H & P (15%) $200.87				
	TOTAL $19,789.69				

HYPOWER

591[illegible] Northwest 31st Avenue Fort Lauderdale, FL 3309 Phone: 954-978-9300 Fax: 954-978-8666

Date: 9/14/2006

Project: Palm Beach County Department of Airports
Long Term Parking Structure No 2

Project Number: 0759
Proposal # RCO #0759-02 (Cummings Cost Proposal No 14)

Subject: Provide additional conduit and wire for Revenue Control and High Mast Duct bank Relocation RFP No 7

Attention: Stewart Coulter

Contractor: James A Cummings, Inc

Dear Mr. Coulter,

We propose to increase our existing contract total by the amount of seventeen thousand one hundred seventeen dollars and zero cents **($17,117.00)** for providing additional power conduit, power cable, communication conduit, lighting contactor, and circuit breaker as per the following scope of work and attached breakdown.

Scope Clarifications.

Excluded

- Patching and painting of walls and ceilings.
- Replacements of ceiling tiles.
- Patching of asphalt/concrete pavement.
- Testing of concrete and soil density.
- Due to recent and possibly future severe fluctuations in commodity pricing, Hypower may experience adjustments to our material and fuel costs. Our quotation does not

contemplate these fluctuations and we reserve the right to adjust our prices accordingly.

- Overtime and week-end work.

Hypower will proceed with the work upon issuance of a change order from James A Cummings, Inc

Very truly yours,
Hypower Inc.

Mario Avi
Senior Project Manager

PBIA Long Trem Parking Structure no 2
Hypower RCO #759-02
Cummings Cost Proposal No 14

Bid Item No	Description of Work	U/M	Bid Qty	Unit Cost	10% Mark-up	Bid Unit	Total Sales
1	2" PVC Direct Buried	LF	100	$20.00	$2.00	$22.00	$2,200.00
2	4" PVC Direct Buried	LF	280	$22.73	$2.27	$25.00	$7,000.00
3	2" EMT Installed Exposed	LF	50	$11.82	$1.18	$13.00	$650.00
4	4" EMT Installed Exposed	LF	30	$22.73	$2.27	$25.00	$750.00
5	3/4" EMT Installed Exposed	LF	75	$5.00	$0.50	$5.50	$412.50
6	In Ground Pull Box	EA	1	$1,200.00	$120.00	$1,320.00	$1,320.00
7	Pull Box Cover	EA	1	$681.82	$68.18	$750.00	$750.00
8	Traffic Box with Concrete Slab	EA	2	$610.00	$61.00	$671.00	$1,342.00
9	#6 Wire with Contactor & Breaker	LF	800	$2.36	$0.24	$2.60	$2,080.00
10	#16 Multi-Conductor	LF	350	$1.59	$0.16	$1.75	$612.50
	Grand Total						***$17,117.00***

MEMORANDUM **CH2MHILL**

TO: Phil Woodard, Construction Coordinator DOA

FROM: Ron Mattingly, P.E.
Construction Manager, CH2M Hill

DATE: October 20, 2006

RE: Review of Cummings Cost Proposal For RFQ #7 (Cummings CP #14)
Revenue Control and High Mast Duct Bank Relocation

Phil,

I have reviewed Cummings cost proposal for relocating the revenue control and high mast duct banks. The backup documentation of my pricing evaluation is attached.

Using primarily, the 2006 RS Means Electrical Cost Data guide as the basis for my estimate, I come up with an estimated cost for the work of $13,128 vs. Hypower's proposed cost of $17,117. This represents a difference of 30% above my estimate.

A couple of factors could attribute to this difference: 1) The Means prices are based on competitively bid pricing. With this being a negotiated price, and not subject to the pressures of competitive bidding, it is not unusual to see the prices higher; 2) The Means prices are based on average quantities that one would expect to be constructing for the item being priced. Some of the quantities involved in this proposal are small and this could drive up the unit cost.

Summary: Hypower's pricing appears to be somewhat high but is not too out of line given the nature of the work. We might be able to beat Hypower down a little on their price but probably not very much. Our options for getting this work completed by others if we can not come to terms with Hypower is limited. They know this, and it is probably reflected in their pricing. Cummings mark-ups are in accordance with the contract provisions.

Please advise if you would like me to move forward with preparation of a Change Order for this additional work or if we should take this back to Cummings/Hypower and ask them to sharpen their pencil.

Thanks
Ron

CH2MHILL

SUBJECT: Review Of Cost Proposal For RFQ #7 Revenue Control And Duct Bank Relocation

BY: Ron Mattingly DATE: 10/19/06

PROJECT NUMBER: _____ SHEET 1 OF 5

2" PVC Direct Buried (Bid Item #1)

From 2006 Means:

Conduit Installed, Not Including Excavation -

Cost Including O&P = $4.52/LF

Trenching (8" Wide x 36" Deep) = $1.59/LF

Backfill & Compaction = $2.83/LF

Total From Means = $8.94/LF

Hypower Price ($22.00/LF), Appears High. Proposed Quantity (100LF) Is Low, Which Could Account for Higher Unit Price

4" PVC Direct Buried (Bid Item #2)

From 2006 Means:

Conduit Installed = $10.90/LF

Trenching (12" x 36" Deep) = $2.39/LF

Backfill & Compaction = $4.25/LF

Total From Means = $17.54/LF

Hypower Price ($25.00/LF), Seems High.

Proposed Quantity 280LF

CH2MHILL

SUBJECT: Review CP for RFQ 7

BY: Ron DATE:

PROJECT NUMBER: SHEET 2 OF 5

2" EMT, Exposed (Bid Item #3)

2006 Means, Total Installed Including O&P = $10.95/LF

Hypower Price ($13.00/LF). Proposed Quantity is Low (50LF). Given low Quant. Price is Not Too Bad.

4" EMT, Exposed (Bid Item #4)

2006 Means, Total Including O&P = $30.00/LF

Hypower Price ($25.00/LF) < $30.00/LF
⟹ Price OK

3/4" EMT, Exposed (Bid Item #5)

2006 Means, Total Including O&P = $3.61

Hypower Price ($5.50/LF), A Little High

Pull Boxes, 24" x 36" x 12" D, Traffic Rated (Bid Item #6

2006 Means 3'x3'x3 D, w/ Conc Cover, Installed:
= $1,125/EA

Hypower Price ($1,320/EA), Reasonable

Pull Box Cover (Bid Item #7)

Pricing Not Available, Hypowers Price of $750/EA Does Not Seem Out of Line

REV 11/01 FORM 3B

CH2MHILL

SUBJECT: Review of For RFQ 7

BY: RON DATE:

PROJECT NUMBER: SHEET 3 OF 5

Traffic Box w/ Conc. Slab (Bid Item #8)

Form & Pour 4.5' x 3' x 6"D Conc. Pad (0.25 cyd)

From 2006 Means, Price Per cyd = $350/cyd

⇒ Price Per Each = $88. There is no way a contractor is going to do this for less than ≈ $400/ea

Setting Owner-Furnished Traffic Boxes, I estimate this cost to be ≈ $300/ea

Eng. Estimate of Proposed Cost = $700/ea

∴ Hypowers Cost of = $671, seems fair

#6 Wire w/ Contactor & Breaker (Bid Item #9)

2006 Means, #6 AWG, Cu installed w/ O&P = $1.20/LF installed

60 Amp, 3 Pole, 600 V Breaker (In Exist Panel)

2006 Means = $335

(Cost spread out in terms of 800 LF cable install = $\frac{\$335}{800}$ = $0.42/LF)

3-POLE, 60 AMP, 600 VOLT CONTACTOR IN NEMA 1 ENCLOSURE

2006 MEANS = $710/EA

(COST SPREAD OUT IN TERMS OF 800 LF CABLE INSTALL = $\frac{\$710}{800}$ = $0.89/LF)

2006 MEANS, TOTAL COST PER FT FOR WIRE, BREAKER & CONTACTOR = $2.51/LF

HYPOWER PRICE ($2.60), REASONABLE

#18 MULTI CONDUCTOR (BID ITEM #10)

THIS IS #18 AWG, 3 CONDUCTOR, TYPE I

∴ 2006 MEANS = $0.92/LF

HYPOWER PRICE ($1.75/LF), HIGH, BUT QUANTITY IS LOW (350 LF)

CH2MHILL

SUBJECT: REVIEW CP FOR RFQ 7

BY: RON DATE:

PROJECT NUMBER: SHEET 5 OF 5

ENGINEERS ESTIMATE OF TOTAL COST USING UNIT PRICES FROM MEANS:

BID ITEM	DESCRIPTION	UNIT	QUANT	UNIT COST	TOTAL
1	2" PVC DIR. BURIED	LF	100	$8.94	$894.00
2	4" PVC DIR. BURIED	LF	280	$17.54	$4,911.20
3	2" EMT EXPOSED	LF	50	$10.95	$547.50
4	4" EMT EXPOSED	LF	30	$30.00	$900.00
5	3/4" EMT EXPOSED	LF	75	$3.61	$270.75
6	PULL BOX	EA	1	$1,125.00	$1,125.00
7	PULL BOX COVER	EA	1	$750.00	$750.00
8	TRAFFIC BOX W/ CON. SLAB	EA	2	$700.00	$1,400.00
9	#6 WIRE W/ CONTRACTOR BREAKER	LF	800	$2.51	$2,008.00
10	#18 MULTI-CONDUCTOR	LF	350	$0.92	$322.00

TOTAL $13,128.45

HYPOWERS PRICE $17,117.00

% HIGH THAN ENG. ESTIMATE: $\frac{17,117 - 13,128}{13,128} = 30\%$

REV 11/01 FORM 3B

SCHEDULE I

LIST OF PROPOSED SBE-M/WBE SUBCONTRACTORS

PROJECT NAME: Long Term Parking Garage F PROJECT NO. PB 05-3

NAME OF PRIME BIDDER: James A. Cummings, INC ADDRESS 2101 Centre Park West Dr. W. Palm Beach, Fl 33409

CONTACT PERSON: Stewart Couture PHONE NO: 561-655-1982 FAX NO: 561 655-1985

BID OPENING DATE: _____ DEPARTMENT: _____

PLEASE IDENTIFY ALL APPLICABLE CATEGORIES OF SUBCONTRACTORS

Name, Address and Phone Number	(Check one or both Categories) Minority Business	Small Business	Subcontract Amount Black	Hispanic	Women	Caucasian	Other (Please Specify)
1. N/A	☐	☐	$	$	$	$	$
2.	☐	☐	$	$	$	$	$
3.	☐	☐	$	$	$	$	$
4.	☐	☐	$	$	$	$	$
5.	☐	☐	$	$	$	$	$
(Please use additional sheets if necessary)		Total	$	$	$	$	$

Total Bid Price $ 0 Total Value of SBE Participation $ 0

NOTE: 1. The amounts listed on this form must be supported by the Subcontractors prices included on Schedule 2 in order to be counted toward goal attainment.
2. Firms may be certified by Palm Beach County as an SBE and/or an M/WBE. If firms are certified as both an SBE and M/WBE, please indicate the dollar amount under the appropriate category.
3. M/WBE information is being collected for tracking purposes only.

ACORD™ CERTIFICATE OF LIABILITY INSURANCE

DATE(MM/DD/YYYY) 06/27/2006

PRODUCER
Aon Risk Services, Inc of Florida
1001 Brickell Bay Drive
Suite 1100
Miami FL 33131 USA

PHONE (866) 283-7122 FAX (847) 953-5390

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.

INSURED
James A. Cummings, Inc.
3575 NW 53rd Street
Fort Lauderdale FL 33309 USA

INSURERS AFFORDING COVERAGE		NAIC #
INSURER A:	Zurich American Ins Co	16535
INSURER B:	American Guarantee & Liability Ins Co	26247
INSURER C:	Westchester Fire Insurance Co	21121
INSURER D:		
INSURER E:		

COVERAGES

SIR May Apply

THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN. THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. AGGREGATE LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	ADD'L INSRD	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE(MM\DD\YY)	POLICY EXPIRATION DATE(MM\DD\YY)	LIMITS	
A		GENERAL LIABILITY [X] COMMERCIAL GENERAL LIABILITY [ ] CLAIMS MADE [X] OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: [ ] POLICY [X] PRO-JECT [ ] LOC	CP04894700-03	07/01/06	01/01/08	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG	$1,000,000 $300,000 $10,000 $1,000,000 $2,000,000 $2,000,000
B		AUTOMOBILE LIABILITY [X] ANY AUTO [ ] ALL OWNED AUTOS [ ] SCHEDULED AUTOS [ ] HIRED AUTOS [ ] NON OWNED AUTOS [X] COLLISION DED $1,000 [X] COMPREHENSIVE DED $1,000	BAP4894702-03	07/01/06	01/01/08	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)	$1,000,000
		GARAGE LIABILITY [ ] ANY AUTO				AUTO ONLY - EA ACCIDENT OTHER THAN AUTO ONLY: EA ACC AGG	
C		EXCESS /UMBRELLA LIABILITY [X] OCCUR [ ] CLAIMS MADE [ ] DEDUCTIBLE [X] RETENTION	G22045878001	07/01/06	01/01/08	EACH OCCURRENCE AGGREGATE Retention	$15,000,000 $15,000,000 $10,000
A		WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR / PARTNER / EXECUTIVE OFFICER/MEMBER EXCLUDED? If yes, describe under SPECIAL PROVISIONS below	WC591766900	01/01/06	01/01/07	[X] WC STATUTORY LIMITS [ ] OTHER E.L. EACH ACCIDENT E.L. DISEASE-EA EMPLOYEE E.L. DISEASE-POLICY LIMIT	$1,000,000 $1,000,000 $1,000,000
		OTHER					

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/EXCLUSIONS ADDED BY ENDORSEMENT/SPECIAL PROVISIONS

RE: Palm Beach International Airport Long term parking structure No. 2 contract# 05-3.
Palm Beach County Board of County Commissioners, a political subdivision of the state of Florida, its officers, employees and agents are listed as Additional Insured with respect to General Liability policy where required by

CERTIFICATE HOLDER

Palm Beach County
c/o Department of Airports
846 P.B.I.A.
West Palm Beach FL 33406 USA

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING INSURER WILL ENDEAVOR TO MAIL 30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO DO SO SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE INSURER, ITS AGENTS OR REPRESENTATIVES.

AUTHORIZED REPRESENTATIVE

Holder Identifier :

Certificate No : 570018370000

Attachment to ACORD Certificate for James A. Cummings, Inc.

The terms, conditions and provisions noted below are hereby attached to the captioned certificate as additional description of the coverage afforded by the insurer(s). This attachment does not contain all terms, conditions, coverages or exclusions contained in the policy.

INSURED

James A. Cummings, Inc.
3575 NW 53rd Street
Fort Lauderdale FL 33309 USA

INSURER
INSURER
INSURER
INSURER
INSURER

ADDITIONAL POLICIES If a policy below does not include limit information, refer to the corresponding policy on the ACORD certificate form for policy limits.

INSR LTR	ADD'L INSRD	TYPE OF INSURANCE	POLICY NUMBER POLICY DESCRIPTION	POLICY EFFECTIVE DATE	POLICY EXPIRATION DATE	LIMITS	

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/EXCLUSIONS ADDED BY ENDORSEMENT/SPECIAL PROVISIONS

written contract.

Certificate No : 570018370000