

EXHIBIT \_\_\_

An employee-owned company October 18, 2004

Mr. Rodney Williams
Project Manager
Facilities and Construction Management
School Board of Broward County
Ft. Lauderdale, FL 33312

Subject: Martin Luther King Elementary School, Project No. 1611-98-01

School Board of Broward County

Multipurpose, Remodeling & Renovation

Review of COR No. 62R - New Automatic Wet Pipe Fire Sprinkler System

Dear Mr. Williams:

PBS&J has completed the review of the subject proposed change order request. Below is a summary of our review and recommendation for the additional cost submitted by the General Contractor (A.V.I. Contractors, Inc.). It should be noted, that the GC's additional scope of work will be performed at premium time

Change Order Request No. 62R - New Automatic Wet Pipe Fire Sprinkler System

## COR Review Methodology:

This Change Order Request relates to providing a new automatic wet pipe sprinkler system to an existing fully finished building, required by SBBC Life Safety Inspector. The Multi-Purpose/Dining Room has three low areas with a combination of hard ceilings & acoustical ceilings. Also, the ceiling in the Multi-purpose room is an exposed ceiling grid with openings less than 1'-0. The additional scope of work is as follows:

- Low areas require soffiting of pipes as to conceal the change in elevation
- The exposed ceiling grid will be required to be removed in sections coordinated with the sprinkler layout
- Due to the different elevations and working conditions the system will be required to be designed with access and the structure in mind
- Coring of penetrations requires protecting covering of finishes of walls for wet core machine
- Stage storage requires two (2) layers of sprinkler heads, as roof ladder and penetration do not allow for compartmentalization of structural members
- Finish cutting and patching and painting will be required
- Lights will be required to remain open until rough and pressure tests are complete
- Hard ceilings: Lights will need to be removed to gain access above the ceilings
   \*The lights above the hard ceilings are very tight and do not allow for installation from the above.
   The lights are for access and pipe to be installed from the ground; through the light
   \*Lights must be removed or multiple access panels are required to be installed
- Backflow and riser will require coordination with the alarm contractor because of the addition of three (3) tampers and one (1) flow switch; all to be wired into existing fire alarm
- The ceiling grid will be required to be removed; New pipe, A/C ductwork, flex, bar joist etc; painted black will need to be repainted black
- The Floor should be protected while this work is being performed

This review is based on the Contractor's, Sub-Contractor's backup documentation provided with the COR and the project documents (sketches, drawings, etc.) and information gathered during telephone conversations with the GC and a site visit performed by PBS&J representatives on September 28, 2004.

PBS&J have reviewed the unit prices of the material, labor and equipment costs of the various items. Quantity takeoffs have not been performed for all the items in this project. It has been assumed that the quantities provided in the estimate are accurate. However, cursory takeoffs were performed and were quantified for certain major items as deemed necessary.

PBS&J also verified the subcontractor markups for overhead, profit and bond for compliance with the contract Agreement between Owner and General Contractor.

However, the markup line item "Warranty @ 1%" is not in accordance with Contract Documents. PBS&J has adjusted the Markups so they may be in accordance with Contract Documents. (See Attachments "A")

## PBS&J Observations:

## Additional Cost Request

#### Foreman & Laborer:

Additional cost for the foreman & laborer rates which includes a labor burden of 38% is within industry standards.

## Barricades, guardrail, wooden:

Additional cost for the barricades (3' high, 1" x 6", on 2" x 4" posts base,) @ \$2.47 If is reasonable.

## Surveys:

The overall price of \$2,500 appears slightly high. However, based on scope and field conditions required to obtain the surveys and per conversations with the GC (the detailed line item does not specify all the activities required to complete the survey) the overall cost could be accepted.

## Asbuilt Drawings:

The overall cost of \$1,525 for the drawings is within industry standards.

## Cleaning final:

Additional cost for the cleaning final @ \$833 could be accepted.



## • Floor protection:

Additional cost for the protection of the floor (14,000 sf) @ \$.35 sf is reasonable

## • Dumpster rental, 20 cubic yard unit:

Additional cost for the dumpster rental, three (3) @ \$350 each is within industry standards.

## · Core drill holes high above ceiling:

The unit cost of \$187 a hole appears slightly high. However, based on scope and field conditions required to drill the holes in the ceiling and per conversations with the GC (the detailed line item does not specify all the activities required to complete the drilling of the holes) the overall cost could be accepted.

## • Build soffit for sprinkler pipes at low to high ceiling transitions, incl. paint:

The overall cost of \$4,933 appears slightly high. However, based on scope and field conditions required to build the soffits and per conversations with the GC (the detailed line item does not specify all the activities required to complete the building of the soffits) the overall cost could be accepted.

## · Patch & paint drywall:

Additional cost for the patching and painting of the drywall @ \$1,148 is within industry standards.

## Patch & paint stucco exterior:

Additional cost for the patching and painting of the exterior stucco @ \$745 is within industry standards.

## · Repair and replace standard acoustical ceilings:

Additional cost for the repair and replacement of the standard acoustical ceilings @ \$2,344 is within industry standards

## Repair and replace 'Custom Grid' ceilings in dining room:

Additional cost for the repair and replacement of the 'Custom Grid' ceilings @ \$31,750 (5,000 sf @ \$6.35 sf) is within industry standards

## Paint conduits above ceilings:

Additional cost for the painting of the conduits above the ceiling @ \$956 is reasonable.



## Repaint HVAC ductwork above ceilings:

Additional cost for the repainting of the HVAC ductwork above the ceiling @ \$475 is reasonable.

## Hand Excavating, backfill incl. compaction, 18" wide trench, 36" deep:

The overall cost of \$3,960 appears slightly high. However, based on scope and field conditions required to hand dig the trench and per conversations with the GC (the detailed line item does not specify all the activities required to complete the trench) the overall cost could be accepted.

## Repair and relocate Irrigation:

The lump sum cost of \$4,500 appears high. A reasonable cost for the additional scope of work should be in the range of \$2,000 to \$2,500.

A meeting was held on October 11, 2004 to clarify the cost for the repair and relocation of the irrigation. The cost was reduced from \$4,500 to \$2,250 per agreement between Owner & the General Contractor for the additional scope of work

## · Repair and relocate underground electrical conduits:

Additional cost for the repairing and relocating the underground electrical conduits @ \$2,642 appears acceptable.

## Backhoe & operator:

Additional cost for the backhoe and operator @ \$1,502 (40 hrs x \$37.55 = \$1,502) is within industry standards.

#### • Lift Rental:

Additional cost for the lift rental @ \$2,550 (2 months x \$1,275 = \$2,550) is within industry standards.

## • Sod and landscape replacement:

The lump sum cost of \$5,800 appears high. A reasonable cost for the additional scope of work should be in the range of \$2,000 to \$1,500.

A meeting was held on October 11, 2004 to clarify the cost for the sod and landscape replacement. The cost was reduced from \$5,800 to \$2,000 per agreement between Owner & the General Contractor.



## · Saw cutting, asphalt/concrete walks:

Additional cost for the saw cutting of asphalt/concrete walks @ \$218 (100 lf  $\times$  \$2.18 = \$218) is within industry standards.

## Asphaltic Patching:

Additional cost for the asphaltic patching @ \$3,360 (640 sf x \$5.25 = \$3,360) is within industry standards.

## • Concrete Patching:

Additional cost for the concrete patching @ \$3,325 (380 sf x \$8.75 = \$3,325) is within industry standards.

## Sprinklermatic Proposal (see attached):

The overall cost of \$100,568 appears slightly high. However, based on scope and field conditions required to sprinkle the multipurpose room and per conversations with the GC (the attached proposal outlines all the specific activities required to complete the sprinkling of the building) the overall cost could be accepted. (see attachment C)

#### Additions to Fire Alarm Panel:

Additional cost to upgrade the fire alarm panel @ \$1,480 appears acceptable.

## Conduit in concrete slab, includes terminations, fittings etc.:

Additional cost for installing the conduit in the slab @ \$449 appears acceptable.

## • Conduit above existing ceiling, (includes wiring & connections):

Additional cost for installing the conduit (including wiring and connections) above the existing ceiling @ \$1,488 is within industry standards.

## Remove and temporarily support light fixtures:

Additional cost for the removal and temporarily support of the light fixtures @ \$2,800 (150 ea. x \$18.66 = \$2,800) is within industry standards.

## Reinstall and support light fixtures:

Additional cost for the reinstallation and support of the light fixtures @ \$3,615 (150 ea. x \$24.10 = \$3,615) is within industry standards.



## Premium for Labor Cost @ Time & Half for night work:

Based on the scope of work that needs to be performed (A.V.I. scope of work will be performed at premium time), the total unit price of \$25,845 ( $$51,689 \times $0.50 = $25,845$ ) appears to be acceptable.

## • A.V.I. Contractor's Estimate Summary - Final Adjustments :

• The markup line item "Warranty @ 1%" is not in accordance with Contract Documents. PBS&J has adjusted the Markups so they may be in accordance with Contract Documents. (See Attachments "A")

Based on our review the General Contractor's request appears slightly high, however due to the labor intensive scope of work for the new supervised fire sprinkler wet system and the level of difficulty for installation of work in the existing space, the Contractor's cost could be accepted with the agreed upon markups. No time extension was requested.

## Change Order Request #62R

Contractor's Request
PBS&J Recommended Amount

Total Cost \$296,356 \$286,365 (see attachment B)

Please feel free to contact us (305) 514-3421 if you have any questions or comments regarding this review.

Sincerely,

Kenneth A. Walker Sr. Estimator/Scheduler

C: Attachments (A, B & C)



## Estimate Summary - Condensed

8/19/2004 12:10 PM

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MLK Change Orders-Project # 1611-98-01 / MLK C.O. #62 R Fire Sprinkler System Wet Sprinkler sytem in Cafeteria Building (REVISED)

A. U. I. Contractors, Inc. Project Estimator: RPM

Estimate No

Estimate Date 8/19/2004

ARENASOFT"

Description **Total** FIRE SPRINKLER PROTECTION 15300 261,523 Total of CSI Sections: 251,523-€ 295,473 Final Adjustments Total Sales Tax 6% TOTAL Warranty @ 1% TOTAL Grand Total: Square Feet: \$ / SF



## The School Board of Broward County, Florida Facilities and Construction Management Department 1700 SW 14th Court

Fort Lauderdale, FL 33312

(954) 765-6390

°o:		Thaddeus Cohen Architects Attn: Thaddeus Cohen	Proposal Request No.:	R	Change AVI Order 062R equest No.: EVISED
Proj	ect No: ect Title: lity Nam		Date Prepared:	August 19, 2	2004
		Elementary School	From/Trade	General Cont	tractor
			Contact:	R.P. Mish	954-385 Phone 7339
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AUTOMATIC FIRE SPRINKLERS, INC.

July 20, 2004

Rich Mish

AVI Contractors, Lic

2863 Executive Park Drive, Suite 6

Weston, FL 33321

Re:

Martin Luther King Elementary School

Fort Lauderdale

Via Fax:

954-385-3262

Dear Rich:

We have reviewed plans dated 08/01/02, and specifically sheets A 6-1 (8-01-02) M2.01 and WS-1 (May 2001), and propose to install an Automati: Wet Pipe Fire Sprinkler System as follows:

SCOPE OF WORK:

- As discussed we have performed an extensive walk thru of any existing fully finished building with the intent of providing fire sprinklers.
- · We walked the existing building with your superintendent, as this project is rather difficult.
- We have (3) three low areas and an exposed ceiling grid in the multi-purpose room.
- Low areas require soffiting of pipe as to conceal the change in elevations.
- . The exposed ceiling grid will be required to be removed in sections coordinated with the sprinkler layout.
- Due to the d fferent elevations and working conditions the system will be required to be designed with access and the structure in mind.
- Coring of penetration requires protecting covering of finishes of walls for wet core machine.
- Stage storage: requires (2) two layers of sprinkler heads, as roof ladder and penetration do not allow for compartmentalization of ctructural members.
- Finish cutting, patching and painting will be required by others.
- Penetrations will be sleeved and fire calked. (included)
- . Lights will be required to remain open until rough and pressure test are complete.
- Backflow an 1 riser will require coordination with your alarm contractor as we are adding (3) tampers and (1) flow switch; all to be wired into existing fire alarm.

#### DESCRIPTION OF WORK:

- Hard Cei ings: Lights will need to be removed to gain access above the ceilings in the following rooms.
  - 1 Stage storage (829)
  - 2. Non working stage (830) and soffits in multi purposed room
  - Ramp to stage (831)
  - 4. Kitchen (803)
  - 5. Men and women toilet room (816, 817, 820, 821)
  - 6. Paper storage (814)
  - 7. Receiving area (812)
  - 8. Room 811, 809 and 808
  - \*Please no e areas above hard ceilings are very tight and do not allow for installation from the above. The lights are for access and pipe to be installed from the ground; through the light.
  - \*Lights must be removed or multiple access panels are required to be installed.
- Multi Pur rosed/Dinning room: This area is an exposed ceiling grid, with openings less the 1'-0". Lights are suspended from grid. Due to the exposed structure; sprinkler heads are required to be installed within (1'-0") of the deck; which is approximately 8'-0" above grid elevation.

The ceiling grid will be required to be removed in sections requiring sprinklers. New Pipe, A/C ductwork, flex, bar joist etc; painted black will need to be repainted by others.



Floor: Should be protected by others. \*We will wrap our lift tires with duct tape; but floor should be protected by others. (Existing damage noticed in walk thru).
As a summary to the description of work we underline the difficulty of this installation and coordination is key to a quick installation. As discussed time is of the essence and upon completion of fire sprinkler layout we proposed all openings, coring, light and grid removal are completed during plan review process. Upon approval we agree to a thirty-day construction schedule; however we underline the critical nature of work to be done by others and work prior to acceptance of drawings

## COMMENCEMENT OF WORK:

Sprinklermatic will start at existing 8-inch water main and install fire service into building. Including backflow preventor and indicating valves, to mper switches and fire department connection.

## RISER:

4 "shotgun" complete with indicating valve, tamper switch, water flow switch, electric bell, drain and test connection, spare sprinkler cabinet, wrench and required signs.

## SPRINKLER HEADS:

White Semi Recess at Sprinklers. Brass upright in exposed areas.

#### SPRINKLER PLANS:

Prepare fire sprinkler shop drawings and hydraulic calculations, designed in accordance with the intent of the design professional's drawings listed above, N.F.P.A. 13 and local authority having jurisdiction.

## **MATERIALS:**

All fire protection e priprotent and devices shall be U.L. listed, approved by local authority having jurisdiction and shall be of SprinklerMatic's choice

#### WORKMANSHIP:

All work shall be performed by State licensed and certified personnel in accordance with the local authority having jurisdiction.

## TESTS AND CERTIFICATION:

One (1) year guarantee against any defects in material and/or workmanship (an Annual Inspection Contract is available upon request.)

Attachment (, Page 3/2

- 1824 S. . . .

# Sprinkley Marie AUTOMATIC FIRE SPRINKLERS, INC.

## **EXCLSUIONS:**

- Electrical Work, Fire Alarm Or Panel
- Fire Extinguishers, Fire Hose Cabinets, Fire Hose Valves
- ◆ Painting Finish Patching Or Access Panels
- Sprinklers Beneath Shelving, Racks, Etc.
- ◆ Post Indic stor Valve
- Ballards
- Unforeseen Underground Obstructions
- Bonding (Available At Additional Cost)
- City of Ft. Lauderdale Permit Fees Or Additional Municipal Fee
- Impact Fe :s
- Remote Freestanding Fire Department Connections
- Phasing (Work To Be Done In A Continuous Manner)
- Employee Purking
- ♦ Covered Walkways
- ❖ Work outside normal work hours (7:00 am to 5:00 pm M-F)
- Removal of lights
- A Removal of grid
- Painting of any kind
- Damage of existing finishes

## TERMS:

Contract price for the above detailed installation is \$100,567.63 (One Hundred Thousand Five Hundred Sixty Seven Dollars and 63/100). Contract substantially equivalent to AIA terms, with provisions for stored materials. Upon execution, it constitutes a bin ling purchase order. Please sign and return to signify acceptance and retain a copy for your files, or furnish your contract. This bid is valid for 45 days from the above date.

Signature of Acceptance

Print Name and Date

If you should have any questions, please call. Thank you for your time and consideration. Sincerely,

Robirl E. Collier President

## .... Estimate For ....

# MLK Change Orders-Project # 1611-98-01

# MLK C.O. #62 R Fire Sprinkler System

## Prepared by:

A. V. I. Contractors, Inc. 2863 Executive Park Drive Suite 106 Weston, Fl. 33331 Phone: 954-385-7339- Fax: 954-385-3262

Estimate No:

Estimate Date: 8/19/2004

Estimator: RPM

## Design Status

<u>Project Description</u>
Wet Sprinkler system in Cafeteria Building (REVISED)

## Estimate Comments

## Exclusions:

A.. Any items of work not specifically itemized in the attached breakdown are NOT included in this proposal!

NOTE WELL! Work at premium time.

ARENASOFT"



## The School Board of Broward County, Florida Facilities and Construction Management Department 1700 SW 14th Court

Fort Lauderdale, FL 33312

(954)765-6390

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Attached is supporting information from:

Richard P. Mish, President

⊠ Supplier

Subcontractor

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MLK Change Orders-Project # 1611-98-01 MLK C.O. #62 R Fire Sprinkler System Wet Sprinkler sytem in Cafeteria Building (REVISED)

t J. I. Communitors, Inc.
Project Estimator RPM

## Showing Take-off & Crew Details

Em~No

Est Date | 8 19 2004

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MLK Change Orders-Project # 1611-98-01 MLK C.O. #62 R Fire Sprinkler System Wet Sprinkler sytem in Cafeteria Building (REVISED)

A.J. I. Contractory In Project Lymmon RPM

## Showing Take-off & Crew Details

Est No Est Date - 8 19 2004

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	Hourly	40.0000 Man Hours per lot	<u>z</u>	\$ 11.6	7 per Man Hour	=	\$ 466.70 per lot	-
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MLK Change Orders-Project = 1611-98-01 MLK C.O =62 R Fire Sprinkler System Wet Sprinkler system in Cafeteria Building (REVISED)

A.J. I. Contractors. In: Project Estimator RPM

## Showing Take-off & Crew Details

Est No Est Date - 8-19/2004

Line No	Descri	ption	Quantity Zone Toff	Unit	Labor	Equip	Material	Sub	Tota!
50	Repair & Repaic acoustical ceiling		1.00 base	lot D	1,49% T3 1,500	0	398 81 <b>399</b>	445	2,344
	Trade 1.0	0 Carpenters		Equip	Equ	ipment		Суен	
	Daily:		Daily Labor	1		8 lot per Day	=	\$ 1,499.75 per lot	
	i .		Daily Equip			8 lot per Day	=	·	
	Hourly.	100.0000	Man Hours per lot	Z	\$ 15.00	per Man Hour	=	\$ 1.499.75 per lot	
			Equip Hours per lot	7		per Equip Hour	=		
	Days:	12.5	Man Days	Z	\$ 119.93	8 per Man Day	=	\$1,499.75 per lot	
			Equipment Days	<u> </u>		per Equip Day	=		
160	Repair & Replace CUSTOM GRID Dining Room		5,000.00 base	sf	0	0	0	31,750	31,750
70	Paint conduits al	ove ceilings	1.00	lot	691 44		11143	154 (0)	956.8
			base	D	691	o	111	154	95
	Trade 2.0	00 Painters, Or	dinary	Equip	Equ	ipment		Crew	
	Daily:	\$ 186.68	Daily Labor	1		7 lot per Day	=	\$ 691.41 per lot	
			Daily Equip			7 lot per Day			
	Hourly	59.2590	Man Hours per lot	3,	\$ 11.6	7 per Man Hour	=	\$ 691.41 per lot	
	l .		Equip Hours per lot	X		per Equip Hour	<u> </u>		·
	Days:	7.4	Man Days	Z	\$ 93.3	+ per Man Day	=	\$ 691.41 per lot	
			Equipment Days	X		per Equip Day			
180	Repaint HVAC	duct work	1.00	lot	1_1 _2				4343
	above ceiling		base	D	475	0	0	0	47
	Trade 2.	00 Sheet Meta	Workers	Equip	Equ	iipment		Crew	
	Daily:	\$ 237.39	Daily Labor	1		0 lot per Day	=	\$ 474,78 per lot	<u>.</u>
	1		Daily Equip			0 lot per Day	<del></del> =	C.171.70	
	Hourly	32.0000	Man Hours per lot	Ţ	\$ 14.8	4 per Man Hour	=	\$ 474.78 per lot	
			Equip Hours per lot	<u></u>	5.1.0	per Equip Hour		4.47.470	
	Days:	4.(	Man Days	Z	\$ 118.7	0 per Man Day	=	\$ 474.78 per lot	
			Equipment Days	<u> </u>		per Equip Day	***		
200	HAND Excavat	ng, backfill	560.00	L.F.	5 (31)	1 21	UH	20	
	incl compaction trench, 36" D	, 18" wide	base	D	3,136	678	0	146	3.96
	Trade 1	00 Men		Equip	1.00 Eq	uipment		Cien	≂Eπor
	Dally:	\$ 124.5	Daily Labor	7	22.5	22 L.F. per Day	=	\$ 5.61 per L.F.	
			7 Daily Equip	,		22 L.F. per Day	=	\$ 1.22 per L.F.	
	Hourty		Man Hours per L.F.	<u> </u>	\$ 15.	7 per Man Hour	=	\$ 5.61 per L.F.	
			Equip Hours per L.F.			38 per Equip Hou	-	\$1.22 per L.F.	
	Days:		2 Man Days		\$ 124.	55 per Man Day		\$ 5.61 per L.F.	
			2 Equipment Days	7		07 per Equip Day		\$ 1.22 per L.F.	
210	<u> </u>							4,500 00	4,500
210	Repair and relo	cate irrigatio	n 1.00 base	łot	0	. 0	0	4,500	4,500

MLK Change Orders-Project = 1611-98-01 | MLK C.O. =62 R Fire Sprinkler System Wet Sprinkler sytem in Cafeteria Building (REVISED) E. I. I. Contractors, Etc. Project Estimator RPM

# Showing Take-off & Crew Details

Est No

Est Date 8 19 2004

Lme No:	Descript	ion Quantity Zone Toff	Unit	Labor	Equip	Material	Sub	Tota!
220	Repair and relocate underground electri		fot D	1.152 30 1.152	0	53a \2 535	955	2,642
	Trade 1.00	Electricians	Equip	Equi	pnient		Crew	<u>.</u>
	Daily:	\$ 115.24 Daily Labor Daily Equip	1		lot per Day lot per Day		\$ 1.152.40 per lot	
	Hourty	80.0000 Man Hours per lot Equip Hours per lot			per Man Hour per Equip Hour	<del>=</del> = =	\$1,152.40 per lot	
	Days:	10.0 Man Days Equipment Days		\$ 115.24	per Man Day per Equip Day		\$ 1.152.40 per lot	
30	Backhoe & operato	or 40.00 base	hrs	12 47 500	15 ol 624	0	378	1,502
40	Lift Rental	2.00 base	menths	0	0	0	1,275 or 2,550	1.2 <sup>-5</sup> 18 2,550
50	Sod & landscape R	ceplace 1.00 base	lot	0	0	0	5,800	5,800 to
60	Saw cutting, aspha	lt/conc walks 100.00 base	L.F.	86	64	16	52 52	2 18
	Trade 2.00		Equip				Crew	≖Елгог
	Daily:	\$ 183.44 Daily Labor \$ 135.40 Daily Equip	/		L.F. per Day		\$.86 per L.F. \$.63 per L.F.	
	Hourty	.0750 Man Hours per L.F. .1130 Equip Hours per L.F.	<u> </u>	\$ 11.4	per Man Hour per Equip Hour	<u>=</u>	\$.86 per L.F. \$.63 per L.F.	
	Days:	.9 Man Days 1.4 Equipment Days	, , , , , , , , , , , , , , , , , , ,	\$ 91.72	2 per Man Day 3 per Equip Day	=	\$ .86 per L.F. \$ .63 per L.F.	
270	Asphaltic Patching	640.00 base	sf	0	0	0	5 25 3,360	5.2 3,360
280	Concrete Patching	380.00 base	र्डी	0	0	0	3,325	N 7
640	Sprinklermatic Pro 7/20/04 (attached)	oposal 1.00	lot	0	0 🗷		100,568	100,567 6
660	Electrical Work	base		. 0	. 0	0	0	0.0
565	Additions to Fire		lot D	230 48 230	0	0	1,250 0a 1,250	1,480 4 1,480
	Trade 1.00	Electricians	Equip		ipment		Crew	
	Daily:	\$ 115.24 Daily Labor Daily Equip	1		0 lot per Day 0 lot per Day	=	\$ 230.48 per lot	
	Hourty	16.0000 Man Hours per lot Equip Hours per lot	x x		I per Man Hour per Equip Hour	<del>=</del> =	\$ 230.48 per lot	
	Days:	2.0 Man Days Equipment Days	z	\$ 115.2	4 per Man Day per Equip Day		\$ 230.48 per lot	

Take-off: 15300

Pag.

MLK Change Orders-Project = 1611-98-01 MLK C.O. =62 R Fire Sprinkler System Wet Sprinkler sytem in Cafeteria Building (REVISED)

A. J. T. Contractors In Project Estimator RPM

## Showing Take-off & Crew Details

Est No Est Date 8 19 2004

Line No:		Descript	ion	Quantity Zone Toff	Unit	Labor	Equip	Material	Sub	Totai
70		in conc sla ngs & sprt		100.00 base	L.F.	273	0	:  . 110	66	44
	Trade	1.00	Electricians		Equip	Equ	upment		('ten	
	Daily.			Daily Labor Daily Equip	1		3 L.F. per Day 3 L.F. per Day	=	\$ 2.72 per L.F	
	Hourt	·	.1890	Man Hours per L.F. Equip Hours per L.F.	X .		1 per Man Hour per Equip Hour	<u> </u>	\$ 2.72 per L.F.	
	Days:			Man Days Equipment Days	<u>z</u>	\$ 115.2	9 per Man Day per Equip Day	=	\$ 2.72 per L.F.	·-····································
80		15' H.incl		150.00	L.F.	5.13		1.2		
	elb&11   ceiling	om CLP al		base	D	770	0	182	167 `	1.11
	Trade	1.00	Electricians		Equip	Equ	ipment		Стем	
	Daily	:	\$ 115.29	Daily Labor Daily Equip	1		7 L.F. per Day 7 L.F. per Day	# =	\$ 5.13 per L.F.	
	Houri	y	.3560	Man Hours per L.F. Equip Hours per L.F.	Z		l per Man Hour per Equip Hour	=	\$ 5.13 per L.F.	
	Days	:	6.7	Man Days Equipment Days	<u>z</u>	\$ 115.2	9 per Man Day per Equip Day	=	\$ 5.13 per L.F.	
90		conns, flexi	ible end ar	nd 4.00	Ea.	1441		1 '74		2.3
	ftngs, 11		Electricians	base	D Equip	58 Equ	0 upment		29 Crew	<u> </u>
	Daily	····	\$ 115.24	Daily Labor		8.0	00 Ea. per Day	=	\$14.41 per Ea.	
	Hour		1 0000	Daily Equip Man Hours per Ea.	<u> /</u>		00 Ea. per Day 11 per Man Hour	<u>=</u>	\$ 14.41 per Ea.	
	<u> </u>			Equip Hours per Ea.	<u>z</u>		per Equip Hour			
	Days	:	د. 	Man Days Equipment Days	<u>z</u>	\$ 115.2	24 per Man Day per Equip Day	· =	\$14.41 per Ea.	
700		00 volt, typ solid, #12	e THW.	15.00 base	C.L.F. D	10.4	0	2.3 35	82	1 N 27
	Trad	e 1.00	Electricians		Equip	Eq	uipment		C'rew	
	Dally	:	\$ 115.21	Daily Labor	1		00 C.L.F. per Day		\$ 10.47 per C.L.F.	
	Hour	ķ	.7270	Daily Equip  Man Hours per C.L.F.	_		00 C.L.F. per Day 40 per Man Hour	=	\$ 10.47 per C.L.F.	
	Days	:	1.4	Equip Hours per C.L.I Man Days	<u>z</u>	\$ 115.2	per Equip Hou 21 per Man Day	<u> </u>	\$ 10.47 per C.L.F.	
				•	-4					
710	<u> </u>	and temp		Equipment Days	<u>X</u>	14.41	per Equip Day	=	4.25	18

Take-off: 15300

## Section Details - Continous

8 19 2004 - 12 04 PM

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MLK Change Orders-Project = 1611-98-01 MLK C.O. =62 R Fire Sprinkler System Wet Sprinkler system in Cafeteria Building (REVISED) 1-1 I Compactors In.
Project Estimator RPM

## Showing Take-off & Crew Details

Est No Est Date 8 19 2004

ne o	De	scription	Quantity Zone Toff	Unit	Labor	Equip	Material	Sub	Total
	Trade	2.00 Electricians	·	Equip	Equi	pment		Слем	
	Daily:	\$ 230.48	Daily Labor	1	16.00	ea per Day	=	\$ 14.41 per ea	
	Į.	_	Daily Equip		16.00	ea per Day	=		
	Hourty	1.0000	Man Hours per ea	Х.	\$ 14.41	per Man Hour	=	\$ 14.41 per ea	
			Equip Hours per ea	X		per Equip Hour	=		
	Days:	18.8	Man Days	X	\$ 115.24	per Man Day	=	\$ 14.41 per ea	
			Equipment Days	x		per Equip Day	=		
	Reinstall an	d support light	150.00	¢a	18407			0.10	24
	fixtures		base	D	2.700	0	0	915	3,61
	Trade	2.00 Electricians		Equip	Equi	pment		Слен	
	Daily:	\$ 230.48	Daily Labor		12.80	ea per Day	<del></del> =	\$ 18.01 per ea	<u> </u>
	-		Daily Equip	1	12.86	ea per Day	<b>=</b>		
	Hourty	1.2500	Man Hours per ea	X	\$ 14.41	per Man Hour	=	\$ 18.01 per ea	•
			Equip Hours per ea	*		per Equip Hour	=		
	Days:	23.4	Man Days	7	\$ 115.2-	per Man Day	=	\$ 18.01 per ea	······
			Equipment Days			per Equip Day	=		
0	Premium fo	r Labor Cost @	51,689.00		511				
		lf for night work	base		25,845	0	0	0	25,84
	base - Te	otal			77,534	1.856	2.339	169,794	251,5
			PROTECTION		77.534	1.856	2,339	169,794	251,52

29,440

# Estimate Summary - Condensed

8 19 2004 12 10 191

Page (

ARENAMIT :

MLK Change Orders-Project # 1611-98-01 / MLK C.O. #62 R Fire Sprinkler System Wet Sprinkler sytem in Cafeteria Building (REVISED)

4 J. I. Contractors. In.

Estimate No

Estimate Date 8/19/2004

Project Estimator - RPM

	Des	cription	Total
1:	5300 FIRE SPRINE	CLER PROTECTION	251,523
		Total of CSI Sections:	251,523 \$/SF
inal Adjust	ments	<del></del>	
		· · · · · · · · · · · · · · · · · · ·	Total
	Sales Tax 6%		7
	TOTAL		251.530
	Warranty @ 19	6	2,515
	TOTAL		254.045
		Grand Total:	254,045

Square Feet: \$ / SF



## The School Board of Broward County, Florida Facilities and Construction Management Department 1700 SW 14th Court

~2	OHU	Fort Laud	erdale, FL 33312	}	(954) 765-639
	Doc	ument 01250d: Pr	oposal Wor	ksheet	Summary
Γo:		Thaddeus Cohen Architects  Attn: Thaddeus Cohen	Proposal Request No.:		Change AVI Order 062R Request No.: REVISED
Proj	ect No: ect Title	1611-98-01 : New Cafeteria/Kitchen	Date Prepared:	August 19,	
r aci	lity Nam	e: Martin Luther king Elementary School	From/Trade	General Co	ontractor
				R.P. Mish	954-385 Phone 7339
Ad	ditions			T=	
	Sheet	Item Description	Materials	Labor	Subtotal
1		A.V.I. Worksheets (att)			247,389.00
3				-	
4	<u> </u>				
5	<u> </u>				
6					
Dec	luction	s:			
	Sheet	Item Description	Materials	Labor	Subtotal
1					
2		······································			
<u>3</u>				<u> </u>	
$\frac{7}{7}$					
	1.	Subtotal Deductions:			
				ditions - Dedu	ctions): 254,045.00
				ontractor's Ov	
			5%	6 Contractor'	
			10% Co	ontractor's Ov	verhead 25,404.50 s Profit 13,972.48

Total \$296,356.00

	Change Order Fo	orm		
Date In	10/29/2004			
Date Out	10/29/09	<u>,                                     </u>		
Project Manager	Rodney Williams		·	
Project No.	1611-98-01			
School	Martin Luther King E	lementary School		
Contractor	AVI Contractors, Inc.			
Processed by:	Thomas Myers			
CO No.	62	OE Contract		
		CHO N-		
CCD No.		CUD No.		
Brd Mtg Date	nge order has been the subject work a	reviewed for compliance	e to the contract d	ocuments and
Brd Mtg Date referenced char market value for CHECKLIST	nge order has been the subject work a	reviewed for compliance	e to the contract d	
Brd Mtg Date referenced char market value for CHECKLIST Plans	nge order has been the subject work a	reviewed for compliand		\$296,356
Brd Mtg Date referenced char market value for CHECKLIST	nge order has been the subject work a	reviewed for compliand	Amount In  Amount Out  1t (Return to	
Brd Mtg Date referenced char market value for CHECKLIST PlansSpecsASI	nge order has been the subject work a	reviewed for compliand not is: AcceptableNon-Complian	Amount In  Amount Out  1t (Return to	\$296,356

SBBC Project Management Signature:

SBBC Contracts Signature:

Date:

Da

If greater than \$50,000 Cost Consultant Recommendation i.e. attached.