

Memorandum



Date: May 9, 2012

To: Mario Godridge, Deputy Director
Sustainability, Planning & Economic Enhancement Department (SPEED)

From: Milton Collins, Associate Director *MJC*
MDAD-Minority Affairs Division

Subject: Project: MIA- Repairs & Modification of Central Chiller Plant East & Central Terminal
Project No. MCC-P-046-A
DBE Goal

The Disadvantaged Business Enterprise (DBE) Project is being sent to you for informational purposes. As per the attached project manager's estimate of probable costs of \$16,343,816.00, the subject project has a recommended DBE Goal of 15.0% or \$2,451,573.00 (Attachment 1).

Also attached is the Community Workforce Program (CWP) required breakdown, as per County Code Section 2-1701 for projects that are equal to or more than two hundred and fifty thousand dollars (250,000.00) (Attachment 2).

If additional information is needed, please call me at (305) 876-7221 or Abebe Tecele at (305) 876-7386.

Attachments (2)

cc:

A. Calderin
A. Tecele
I. Quintana
K. Duncombe (SBD)
Project File

Enclosure 1



**Miami-Dade Aviation Department
Minority Affairs Division
Project Worksheet**

Project/Contract Title: MIA - Repairs & Modification of Central Chiller Plant East & Central HVAC
Funding Source: FAA
Resubmittal Date (s):

Project/Contract No.: MCC-P-046-A

Estimated Cost of Project \$ 16,343,818

Description of Project/Bid: the work will consist of renovations to the Central Chiller Plant East, complete automation of the Central Chiller Plant East, and the survey preparation of current as-built documents of the Central Chiller Plant East. Additionally, the survey will also include the Primary and Secondary Chilled Water Piping Loops in the plant and on the Airport Terminal and Concourses Roof up to each of the Tertiary Pump Rooms.

DBE Recommendation	
Program	DBE Goal Percent
DBE	15.0%

Reason for Recommendation

This is a reasonable DBE Goal, based on the availability of DBE firms for the trade identified.

Analysis for Recommendation					
Subtrade	Estimated Value \$	% of Items to Base Bid	Availability	NAICS code	
Sitework / Selective Demolition	326,876	2.0%	14	238910	
Thermal and Moisture Protection	326,876	2.0%	18	238320	
Finishes	490,315	3.0%	5	238310	
Mechanical Installation (Millwrights)	817,191	5.0%	37	238220	
Electrical Installation	490,315	3.0%	68	238210	
Total	\$ 2,451,573	15.0%			

Minority Affairs Recommendation					
DBE Goal	15.0%	Race-conscious	15.0%	Race-neutral	0.00%
<i>Mattson & Collins</i>	5/10/12				
Associate Director	Date	Project Manager	Date		

MIAMI-DADE AVIATION DEPARTMENT ♦ P.O. BOX 592075 AMF ♦ MIAMI, FLORIDA 33159
 PHONE: 305.876.7000

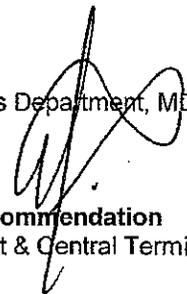
www.miami-airport.com



Enclosure 2



Date: May 7, 2012
To: Mr. Milton L. Collins, Associate Director - Minority Affairs Department, MDAD
From: Alberto Calderin, General Manger - MIA-MCC-8-10
Subject: **Disadvantage Business Enterprises (DBE) Goal Recommendation**
MIA- Repairs & Modification of Central Chiller Plant East & Central Terminal HVAC
MCC-P-046-A



This is a request for approval of Disadvantage Business Enterprise (DBE) contract measure recommendation in order for the MCC-8-10 Contractor to proceed with the bidding of the above-mentioned project. Per Section 01010, "Summary of Work", the work will consist of renovations to the Central Chiller Plant East, complete automation of the Central Chiller Plant East, and the survey preparation of current as-built documents of the Central Chiller Plant East. Additionally, the survey will also include the Primary and Secondary Chilled Water Piping Loops in the plant and on the Airport Terminal and Concourses Roof up to each of the Tertiary Pump Rooms. Work will consist of control of all tertiary pump Variable Frequency Devices (VFDs) and balance of the chiller loop water flow.

The Contractor's staff has evaluated the project and recommends a DBE goal based on the availability of DBE contractors that can perform a portion of the above required scope.

The required Community Workforce Program (CWP) documentation is attached for your review as well.

The MCC-8-10 Contractor will not enter into a subcontract agreement prior to receiving an executed Supplemental Authorization Order for each particular sub-project.

C: Ricardo Solorzano – MDAD Project Manager
File

DEPARTMENT INPUT
CONSTRUCTION CONTRACT/PROJECT MEASURE ANALYSIS AND RECOMMENDATION

Check applicable Ordinance(s): 90-143 Responsible Wage and Benefits 03-237 (formerly 03-1) Community Workforce Program

PROJECT INFORMATION See attachment

Contract/Project/*Work Order No.: _____

*Reference corresponding project number when submitting a work order

Contract/Project Title: MIA- Repair+ Modif. of Central Chiller Plant East

Description/Scope of Work: Renovations of Central Chiller Plant and survey preparation of current as-built documents of Chiller Plant and primary/secondary chilled water piping loops.

Estimated Cost: \$16,343,818.00 Funding Source: Federal

Location of Project (street address or beginning and ending points) i.e. 12345 NE 23rd Ct or Starts at 135 St. ends at 145 St.

PROJECT ANALYSIS FOR GOAL RECOMMENDATION (CWP) See attachment

Engineer/Department or Agency's estimated required workforce for Project Work Order :

Trade/Skills Required	Est. # of workforce required per trade	Est. # of total days to complete job
<u>See attached</u>		

Comments: _____

PROJECT ANALYSIS FOR GOAL RECOMMENDATION (CSBE) See attachment

Sub-Trade	Est. Cost	% of Item to Base Bid	Availability
<u>N/A</u>			

RECOMMENDATION

Set-Aside: Level 1 Level 2 Level 3 Trade Set-Aside Sub-Contractor Goal Workforce Goal No Measure

Basis for Recommendation: _____

Date submitted to DBD: _____

Contact Person: _____

Telephone No.: _____

PROJECT ANALYSIS FOR GOAL RECOMMENDATION (CWP)

Construction Contract/Project Measure Analysis & Recommendation

Project Name: MIA-Repairs & Modification of Central Chiller Plant East & Central Terminal HVAC

Project Number: MCC-P-046-A

Trade/Skills Required	Estimated # of Workforce Required	Estimated # of Total Days to Complete
Sitework	21 Person Crew	35 Days
Concrete	16 Person Crew	28 Days
Miscellaneous Metals / Expansion Joints	3 Person Crew	28 Days
Thermal & Moisture Protection	9 Person Crew	55 Days
Doors & Windows	2 Person Crew	15 Days
Finishes	8 Person Crew	132 Days
Equipment	n/a	n/a
Furnishings	n/a	n/a
Conveying System	3 Person Crew	28 Days
Plumbing	4 Person Crew	90 Days
HVAC	14 Person Crew	200 Days
Electrical	4 Person Crew	60 Days



May 7, 2012

Mr. Ricardo Solorzano
Project Manager
Miami Dade Aviation Department
P.O. Box 025504
Miami, Florida 33102-5504

RE: MIA- Repairs & Modification of Central Chiller Plant East & Central Terminal HVAC
MCC-P-046-A

Dear Mr. Solorzano:

We are pleased to present to you the following **Project Construction Packaging Plan** for the above referenced project, based on 100% completed drawing and specifications prepared by:

Fraga Engineers
135 San Lorenzo Avenue, #890
Coral Gables, FL 33146
305-444-8210

Project Estimate: **\$16,343,818.00** (Sixteen Million Three Hundred Forty Three Thousand Eight Hundred Eighteen Dollars and Zero Cents).

This project is to be completed in approximately **364 calendar days**.

This estimate is broken down on the attached spreadsheet, and is based on the following conditions.

Drawing	Title	Date
GN.00	Cover Sheet	08/16/10
GN.01	Drawing Index	08/16/10
GN.02	General Scope Description	11/16/10
A0.00	Site Plan	11/16/10
A1.01	General Floor Plan	11/16/10
A3.01	Partial First Level Plan	11/16/10
A3.02	Partial First Level Plan	11/16/10
A3.03	Partial Second Level Plan	11/16/10
A3.04	Partial Second Level Plan	11/16/10
A3.05	Partial Third Level Plan	11/16/10
A3.06	Partial Third Level Plan	11/16/10
A3.07	Partial Fourth Level Plan	11/16/10
A3.08	Partial Fourth Level Plan	11/16/10
A3.09	Partial Roof Level Plan	11/16/10
A3.10	Partial Roof Level Plan	11/16/10
A3.11	Partial Cooling Tower Deck Level Plan	11/16/10
A3.12	Partial Cooling Tower Deck Level Plan	11/16/10
A4.01	South Elevation	11/16/10
A4.02	North Elevation	11/16/10
A4.03	East & West Elevation	11/16/10
A5.02	Cross Section	11/16/10
A5.03	Building Section	11/16/10
A5.04	Building Section	11/16/10

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A7.03	Wall Sections	11/16/10
A8.03	Miscellaneous Details	11/16/10
A8.04	Exterior Details	11/16/10
A8.05	Door Schedule & Details	11/16/10
A10.01	Stair Details	11/16/10
A10.02	Stair Plans, Sections	11/16/10
P0.00	Plumbing Legend and Notes	08/16/10
P1.01	Plumbing Site Plan	08/16/10
P3.01	First Level Plumbing Floor Plan	08/16/10
P3.02	First Level Plumbing Floor Plan	08/16/10
P3.03	Second Level Plumbing Floor Plan	08/16/10
P3.04	Second Level Plumbing Floor Plan	08/16/10
P3.05	Third Level Plumbing Floor Plan	08/16/10
P3.06	Third Level Plumbing Floor Plan	08/16/10
P3.07	Fourth Level Plumbing Floor Plan	08/16/10
P3.08	Fourth Level Plumbing Floor Plan	08/16/10
P3.09	Fifth Level Plumbing Floor Plan	08/16/10
P3.10	Fifth Level Plumbing Floor Plan	08/16/10
P7.01	Plumbing Schedule	08/16/10
P8.01	Plumbing Details	08/16/10
P8.02	Plumbing Details	08/16/10
P8.03	Plumbing Details	08/16/10
M0.00	HVAC Legend & Notes	08/16/10
M1.01	Mechanical Site Plan	08/16/10
M3.01	First Level Mechanical Floor Plan	08/16/10
M3.02	First Level Mechanical Floor Plan	08/16/10
M3.03	Second Level Mechanical Floor Plan	08/16/10
M3.04	Second Level Mechanical Floor Plan	08/16/10
M3.05	Third Level Mechanical Floor Plan	08/16/10
M3.06	Third Level Mechanical Floor Plan	08/16/10
M3.07	Fourth Level Mechanical Floor Plan	08/16/10
M3.08	Fourth Level Mechanical Floor Plan	08/16/10
M3.09	Fifth Level Mechanical Floor Plan	08/16/10
M3.10	Fifth Level Mechanical Floor Plan	08/16/10
M3.11	Roof Level Mechanical Floor Plan	08/16/10
M3.12	Roof Level Mechanical Floor Plan	08/16/10
M4.01	First Level Overall Plan	08/16/10
M4.02	Second Level Overall Plan	08/16/10
M4.03	Third Level Overall Plan	08/16/10
M4.04	Fourth Level Overall Plan	08/16/10
M4.05	Fifth Level Overall Plan	08/16/10
M4.06	Roof Level Overall Plan	08/16/10
M4.11	Partial CHW Line Routing Roof Level	08/16/10
M4.12	Partial CHW Line Routing Roof Level	08/16/10
M4.13	Partial CHW Line Routing Roof Level	08/16/10
M4.14	Partial CHW Line Routing Roof Level	08/16/10
M4.15	Partial CHW Line Routing Roof Level	08/16/10
M4.16	Partial CHW Line Routing Roof Level	08/16/10
M4.17	Partial CHW Line Routing Roof Level	08/16/10

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M4.18	Partial CHW Line Routing Roof Level	08/16/10
M4.19	Partial CHW Line Routing Roof Level	08/16/10
M4.20	Partial CHW Line Routing Roof Level	08/16/10
M4.21	Partial CHW Line Routing Roof Level	08/16/10
M4.22	Partial CHW Line Routing Roof Level	08/16/10
M4.23	Partial CHW Line Routing Roof Level	08/16/10
M4.24	Partial CHW Line Routing Roof Level	08/16/10
M4.25	Partial CHW Line Routing Roof Level	08/16/10
M4.26	Partial CHW Line Routing Roof Level	08/16/10
M4.27	Partial CHW Line Routing Roof Level	08/16/10
M4.28	Partial CHW Line Routing Roof Level	08/16/10
M4.29	Partial CHW Line Routing Roof Level	08/16/10
M4.30	Partial CHW Line Routing Roof Level	08/16/10
M4.31	Partial CHW Line Routing Roof Level	08/16/10
M4.32	Partial CHW Line Routing Roof Level	08/16/10
M4.33	Partial CHW Line Routing Roof Level	08/16/10
M4.34	Partial CHW Line Routing Roof Level	08/16/10
M4.35	Partial CHW Line Routing Roof Level	08/16/10
M4.36	Partial CHW Line Routing Roof Level	08/16/10
M4.37	Partial CHW Line Routing Roof Level	08/16/10
M4.38	Partial CHW Line Routing Roof Level	08/16/10
M4.39	Partial CHW Line Routing Roof Level	08/16/10
M4.40	Partial CHW Line Routing Roof Level	08/16/10
M4.41	Partial CHW Line Routing Roof Level	08/16/10
M4.42	Partial CHW Line Routing Roof Level	08/16/10
M5.01	First Level Partial Enlarged Plans	08/16/10
M5.02	First Level Partial Enlarged Plans	08/16/10
M5.03	First Level Partial Enlarged Plans	08/16/10
M5.04	First Level Partial Enlarged Plans	08/16/10
M5.05	First Level Partial Enlarged Plans	08/16/10
M5.06	First Level Partial Enlarged Plans	08/16/10
M5.07	First Level Partial Enlarged Plans	08/16/10
M5.08	First Level Partial Enlarged Plans	08/16/10
M5.09	First Level Partial Enlarged Plans	08/16/10
M5.10	First Level Partial Enlarged Plans	08/16/10
M5.11	Second Level Partial Enlarged Plans	08/16/10
M5.12	Second Level Partial Enlarged Plans	08/16/10
M5.13	Third Level Partial Enlarged Plans	08/16/10
M5.14	Third Level Partial Enlarged Plans	08/16/10
M5.15	Third Level Partial Enlarged Plans	08/16/10
M5.16	Third Level Partial Enlarged Plans	08/16/10
M5.17	Third Level Partial Enlarged Plans	08/16/10
M5.18	Third Level Partial Enlarged Plans	08/16/10
M5.19	Fifth Level Partial Enlarged Plans	08/16/10
M5.20	Fourth Level Partial Enlarged Plans	08/16/10
M5.21	Fourth Level Partial Enlarged Plans	08/16/10
M5.22	Fourth Level Partial Enlarged Plans	08/16/10
M5.23	Fourth Level Partial Enlarged Plans	08/16/10

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M5.24	Fourth Level Partial Enlarged Plans	08/16/10
M5.25	Fourth Level Partial Enlarged Plans	08/16/10
M5.26	Fourth Level Partial Enlarged Plans	08/16/10
M5.27	Fourth Level Partial Enlarged Plans	08/16/10
M5.28	Fourth Level Partial Enlarged Plans	08/16/10
M5.29	Fourth Level Partial Enlarged Plans	08/16/10
M5.30	Fifth Level Partial Enlarged Plans	08/16/10
M5.31	Fifth Level Partial Enlarged Plans	08/16/10
M5.32	Fifth Level Partial Enlarged Plans	08/16/10
M5.33	Fifth Level Partial Enlarged Plans	08/16/10
M5.34	Fifth Level Partial Enlarged Plans	08/16/10
M5.35	Fifth Level Partial Enlarged Plans	08/16/10
M5.36	Fifth Level Partial Enlarged Plans	08/16/10
M7.01	Mechanical Schedules	08/16/10
M7.02	Mechanical Schedules	08/16/10
M7.03	Mechanical Schedules	08/16/10
M8.01	Mechanical Details	08/16/10
M8.02	Mechanical Details	08/16/10
E0.00	Electrical Legend and Notes	08/16/10
E1.01	Electrical Site Plan	08/16/10
E3.01	First Level Electrical Floor Plan	08/16/10
E3.02	First Level Electrical Floor Plan	08/16/10
E3.03	Second Level Electrical Floor Plan	08/16/10
E3.04	Second Level Electrical Floor Plan	08/16/10
E3.05	Third Level Electrical Floor Plan	08/16/10
E3.06	Third Level Electrical Floor Plan	08/16/10
E3.07	Fourth Level Electrical Floor Plan	08/16/10
E3.08	Fourth Level Electrical Floor Plan	08/16/10
E3.09	Fifth Level Electrical Floor Plan	08/16/10
E3.10	Fifth Level Electrical Floor Plan	08/16/10
E3.11	Roof Level Electrical Floor Plan	08/16/10
E3.12	Roof Level Electrical Floor Plan	08/16/10
E7.01	Electrical Schedules	08/16/10
E8.01	Electrical Details	08/16/10
E8.02	Electrical Details	08/16/10
I0.00	Irrigation Specification & Details	08/16/10
I1.01	Irrigation Plan	08/16/10
I8.01	Irrigation Details	08/16/10
	Specification	02/28/12

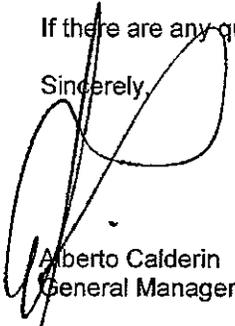
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1. Work to begin, after approved Project Order and after receipt of approved Building Permits and Notice to Proceed.
2. This estimate includes an allowance account for unforeseen conditions.
3. This estimate will stay in effect for a period of not more than thirty (30) days from the date of this correspondence. It does not include any cost for items not shown.

If there are any questions, please do not hesitate to contact me.

Sincerely,



Alberto Calderin
General Manager

/gm

Cc: File

Project Name:
MDAD Project No:
Job Hour Analysis Summary

MIA-Repairs & Modification of Central Chiller Plant East & Central Terminal
MCC-P046A

5/9/2012

Spec Section	Craft	Hours per Day	No. of Persons	No. of Days	Total Job Hours
Division 01	Foreman				
	Laborer				
Division 02	Foreman	8	3	35	840
Crew 21	Laborer	8	18	35	5040
	Equipment Operators				0
					0
Division 03 Concrete	Foreman	8	3	28	672
Crew 16	Laborer	8	4	28	896
	Cement Finisher	8	9	28	2016
	Equipment Operators				0
	Carpenters				0
					0
Division 04 Masonry	Bricklayers				0
Crew	Bricklayers Helpers				0
					0
Division 05 Metals	Structural Steel Foreman	8	1	28	224
Crew 3	Structural Steel Worker	8	2	28	448
					0
Division 06 Wood & Plastic	Carpenters				0
Crew					0
					0
Division 07 Moisture Protection	Roofer Foreman	8	2	55	880
Crew 9	Roofers	8	7	55	3080
	Roofers Helpers				0
					0
Division 08 Door, Window, & Glass	Carpenters	8	2	15	240
Crew 2					0
					0
Division 09 Finishes	Plasters	8	6	132	6336
Crew 8	Plasters Helpers	8	2	132	2112
	Lather				0
					0
Division 10 Specialties	Carpenters				0
Carpenters					0
					0
Division 11 Equipment	Carpenters				0
Carpenters					0
					0
Division 12 Furnishing	Carpenters				0
Carpenters					0
					0
Division 13 Special Construction					0
					0
Division 14 Conveying System		8	3	28	672
Crew 3					0
					0
Division 15 Mechanical	Sheet Metal Workers				0
Crew 18	Sheet Metal Apprentice				0
	Plumber	8	18	200	28800
	Plumber Apprentice				0
	Fire Sprinkler				0
	Fire Sprinkler-Helper				0
					0
Division 16 Electrical	Electrician	8	4	60	1920
Crew 4					0
Total Job Hours					54,176

Munilla Construction Management, LLC (MCM)

Bid Line Item Sheet

MCC-8-10

Project Name: MIA- Repairs & Modification of Central Chiller Plant East & Central Terminal HVAC

Project Number: MCC-P-046-A

ITEM NO.	DESCRIPTION	DBE Goals	AMOUNT
	Sitework		\$268,883.00
	Concrete		\$520,600.00
	Miscellaneous Metals		\$64,500.00
	Thermal/Moisture Protection		\$524,601.00
	Doors & Windows		\$53,000.00
	Finishes		\$1,023,735.00
	Equipment		\$100,000.00
	Furnishings		\$20,000.00
	Conveying Systems		\$35,000.00
	Plumbing		\$961,000.00
	HVAC		\$8,528,000.00
	Electrical		\$320,000.00
	Subtotal		\$12,419,318.00
	General Conditions		\$1,242,000.00
	Subtotal		\$13,661,318.00
	Allowance Account		\$1,366,200.00
	Subtotal		\$15,027,518.00
	Bond Fee		\$120,100.00
	MCC Fee		\$1,196,200.00
	Total		\$16,343,818.00



PROJECT ESTIMATE

MCC Chiller Plant - ROM
7-May-12

PROJECT:	MCC Chiller Plant - ROM	DURAT: (Specs/MCM):	BID DATE:	7-May-12	
LOCATION:	Miami International Airport	BUDGET:	12,000,000	BID TIME:	2:00:00PM
DESCRIPTION:	Remodeling	SQFT:	0	LIQ. DAMG.:	
MINORITY REQ:		ADDENDA:			

CSI	DESCRIPTION	DETAILS	LABOR	MAT'L	EQUIP.	OTHER	SUB	TOTAL
2	SITEWORK							
2070.000	Selective Demo, Removals	B					103,473	103,473
2510.000	Asphalt Paving	B					15,150	15,150
2515.000	Pavers	B					43,620	43,620
2521.000	Exterior Sidewalks	B					3,860	3,860
2590.000	Pavement Markings	B					2,780	2,780
2600.000	WAPD	B					50,000	50,000
2810.000	Lawn Irrigation	B					20,000	20,000
2900.000	Landscaping	B					30,000	30,000
SITEWORK TOTAL							268,883	268,883
3	CONCRETE							
3100.000	Cast in Place	B					85,000	85,000
3550.000	Concrete Toppings	B					24,000	24,000
3700.000	Concrete Restoration	B					111,600	111,600
3930.040	Concrete Crack Repair-Horizontal	B					300,000	300,000
CONCRETE TOTAL							520,600	520,600
5	METALS							
5500.000	Miscellaneous Metals	B					12,000	12,000
5810.000	Expansion Joints	B					52,500	52,500
METALS TOTAL							64,500	64,500
7	THERMAL & MOISTURE PROT.							
7100.000	Waterproofing, Joint Seal	B					404,601	404,601
7270.000	Firestopping	B					45,000	45,000
7500.000	Roofing Protection	B					75,000	75,000
THERMAL & MOISTURE PROT. TOTAL							524,601	524,601
8	DOORS & WINDOWS							
8100.000	Doors & Finish Hardw.	B					53,000	53,000
DOORS & WINDOWS TOTAL							53,000	53,000
9	FINISHES							
9310.000	Ceramic Tile	B					47,400	47,400
9510.000	Acoustical ceilings	B					9,000	9,000
9720.000	Epoxy Flooring	B					378,912	378,912
9900.000	Paints & Coatings	B					688,423	688,423
FINISHES TOTAL							1,023,735	1,023,735
11	EQUIPMENT							
11125.005	Bucket Lift & Scissor Lift	B					100,000	100,000
EQUIPMENT TOTAL							100,000	100,000
12	FURNISHINGS							
12930.000	Site Furnishing	B					20,000	20,000
FURNISHINGS TOTAL							20,000	20,000
14	CONVEYING SYSTEMS							
14200.000	Elevator Repairs	B					35,000	35,000
CONVEYING SYSTEMS TOTAL							35,000	35,000

15 MECHANICAL									
15400.000	Plumbing	B						961,000	961,000
15500.000	HVAC	B						8,028,000	8,028,000
15500.005	HVAV - Survey of Loops	B						500,000	500,000
MECHANICAL TOTAL								9,489,000	9,489,000

16 ELECTRICAL SYSTEMS									
16100.000	Electrical Work	B						320,000	320,000
ELECTRICAL SYSTEMS TOTAL								320,000	320,000

SUBTOTAL COST WITHOUT ADD-ONS **12,419,318**

ADD-ONS SUBTOTAL									
General Conditions								1,242,000	
Subtotal								13,661,300	
Allowance Account								1,366,200	
Subtotal								15,027,400	
Bond								120,100	
MCC Fee								1,196,200	
ADD-ONS TOTAL								3,924,500	
TOTAL PRICE:									\$16,343,818