#### NOTWASHINGTON METROPOLITAN TRANSIT AUTHORITY 600 FIFTH STREET, NW WASHINGTON, DC 20001

Tender Number: Date of Issuance: Tender Due Date: Revised Tender Opening Date:

IFB-FQ18102/KKB May 11, 2018 May 16, 2018 May 23, 2018

#### AMENDMENT NO. 02 TO INVITATION FOR BIDS FOR Replacement of Chiller and Cooling Tower Accessories at Eight (8) Metro-rail Stations: DC, MD, and VA IFB-FQ18102/KKB

#### TO WHOM IT MAY CONCERN:

The Invitation for Bids Documents accompanying IFB FQ18102/KKB requesting proffers for above procurement action are herewith changed in part as listed below. The changes are bolded and denoted with ## signs.

#### 1. SECTION 00800, SUPPLEMENTAL CONDITIONS

DELETE	<u>SUBSTITUTE</u>	DESCRIPTION
Section 00800, Wage Rates,	Section 00800, Wage Rates,	Revised Wage Rates
Pages Appendix D-1 thru	Pages Appendix D-1 thru	
Appendix D-2.	Appendix D-2.	
	Amendment No. 02	

#### SECTION 00800, SUPPLEMENTAL CONDITIONS 2.

DELETE Section 00800, DBE, Pages Appendix B-17 to Appendix B-25 Amendment No. 01

SUBSTITUTE Section 00800, DBE, Pages Appendix B-17, to Appendix B-27 Amendment No. 2

DESCRIPTION Revised to include Attachment B-8 Form

#### 3. **CONTRACT DRAWINGS**

DELETE Drawing Nos.CWPC03-M-103–Farragut West, CWPE05 -M-101-Georgia Ave-Petworth, And CWPB11-M-101-Glenmont CWPB11-M-101- Glenmont,

#### SUBSTITUTE

Drawing Nos. CWPC03-M-103 -Farragut West, CWPE05-M-101 - Horns & Strobes Georgia Ave-Petworth, and Amendment No. 02

#### DESCRIPTION

Revised to include

### 4 SECTION 00100, BIDDING REQUIREMENTS

DELETE Section 00100, Invitation for Bids, Page 2-Section 00100 SUBSTITUTE Section 00100, Invitation for Bids, Page 2-Section 00100 Amendment No. 02 DESCRIPTION Revised Project Bid Schedule

- **5.** There are no further changes.
- 6. THE SOLICITATION PROVISIONS ENTITLED "SOLICITATION AMENDMENT" IS APPLICABLE TO THIS AMENDMENT. THE CHANGES SET FORTH ARE HEREWITH INCORPORATED INTO THE ABOVE CITED SOLICITATION. THE HOUR AND DATE SPECIFIED FOR RECEIPT OF PROFFERS IS NOT EXTENDED AND WILL REMAIN MAY 23, 2018 AT 2:00 PM EST.
- 7. Acknowledgement: Bidders are required to acknowledge receipt of this amendment on Bid Form in the space provided. Failure to acknowledge all Amendments may cause the proffer to be considered non-responsive to the invitation for bids, which may cause its rejection.

Issued By:

1 Jan Of Calment

Norie A. Calvert, Contracting Officer, Office of Procurement and Materials

General Decision Number: DC180002 ## 05/04/2018 ## DC2

Superseded General Decision Number: DC20170002

State: District of Columbia

Construction Type: Building

County: District of Columbia Statewide.

BUILDING CONSTRUCTION PROJECTS (does not include single family homes or apartments up to and including 4 stories).

Note: Under Executive Order (EO) 13658, an hourly minimum wage of \$10.35 for calendar year 2018 applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least \$10.35 (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in calendar year 2018. The EO minimum wage rate will be adjusted annually. Please note that this E0 applies to the above – mentioned types of contracts entered into by the federal government that are subject to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60). Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification Number	Publication Date
0	01/05/2018
2	01/12/2018 02/09/2018
3	03/23/2018
4	04/20/2018
## 5	05/04/2018 ##

ASBE0024-007 10/01/2017

	Rates	Fringes
ASBESTOS WORKER/HEAT & FROST INSULATOR	\$ 35.13	16.22

Includes the application of all insulating materials, protective coverings, coatings and finishes to all types of mechanical systems

ASBE0024-008	10/01/2017		
		Rates	Fringes
ASBESTOS WORK	ER: HAZARDOUS MATERIAL HANDLER	\$ 22.81	7.34
Includes proparation	n watting stripping romoval scrapping vacuumi	na bagging and di	sposing of all insulation

Includes preparation, wetting, stripping, removal, scrapping, vacuuming, bagging and disposing of all insulation materials, whether they contain asbestos or not, from mechanical systems

ASBE0024-014 10/01/2017

	Rates	Fringes
FIRESTOPPER	\$ 28.01	7.78

Includes the application of materials or devices within or around penetrations and openings in all rated wall or floor assemblies, in order to prevent the pasage of fire, smoke of other gases. The application includes all components involved in creating the rated barrier at perimeter slab edges and exterior cavities, the head of

Washington Metropolitan Area Transit Authority	Contract No.: FQ18102
IFB No.: FQ18102/KKB	Date: April 2018

gypsum board or concrete walls, joints between rated wall or floor components, sealing of penetrating items and blank openings.

BRDC0001-002 04/30/2017			
		Rates	Fringes
BRICKLAYER		\$ 30.91	10.24
CARP0177-003 05/01/2017			
		Rates	Fringes
CARPENTER, Includes Drywall Hanging, Form Work, and Soft Floor Laying	-Carpet	\$ 28.36	11.53
		-	
## * CARP0179-001 05/01/2018 ##			
		Rates	Fringes
## PILEDRIVERMAN		\$ 31.44	10.95 ##
CARP0219-001 05/01/2017			
		Rates	Fringes
MILLWRIGHT		\$ 32.49	11.23
ELEC0026-016 11/06/2017			
		Rates	Fringes
ELECTRICIAN, Includes Installation of HVA	C/Temperature Controls	\$ 45.15	17.15
ELEC0026-017 09/05/2016			
		Rates	Fringes
ELECTRICAL INSTALLER (Sound & Com	munication Systems)	\$ 27.55	10.20

SCOPE OF WORK: Includes low voltage construction, installation, maintenance and removal of teledata facilities (voice, data and video) including outside plant, telephone and data inside wire, interconnect, terminal equipment, central offices, PABX, fiber optic cable and equipment, railroad communications, micro waves, VSAT, bypass, CATV, WAN (Wide area networks), LAN (Local area networks) and ISDN (Integrated systems digital network).

WORK EXCLUDED: The installation of computer systems in industrial applications such as assembly lines, robotics and computer controller manufacturing systems. The installation of conduit and/or raceways shall be installed by Inside Wiremen. On sites where there is no Inside Wireman employed, the Teledata Technician may install raceway or conduit not greater than 10 feet. Fire alarm work is excluded on all new construction sites or wherever the fire alarm system is installed in conduit. All HVAC control work.

ELEV0010-001 01/01/2018

	Rates	Fringes
ELEVATOR MECHANIC	\$ 44.12	32.645+a+b
a DAID HOLIDAXS: New Year's Day, Memorial Day, Independence	Day Labor Day	Votoronal Dav

a. PAID HOLIDAYS: New Year's Day, Memorial Day, Independence Day, Labor Day, Veterans' Day, Thanksgiving Day, Christmas Day and the Friday after Thanksgiving.

# Washington Metropolitan Area Transit Authority Disadvantage Business Enterprise Program Termination/Substitution/Reduction Request (TSR) Form (Attachment B-8)

Contract No.:	MOD	No.:	Task Order No.:
Prime:		Vendor	ID No.:
DBE Firm:		DBE Certific	ation No.:
Requestor:		Email:	Phone No.:
Type of Request:	Termination:	Substitution:	Reduction:
1. Is this request due	e to a WMATA Change	e Order/Scope	
Yes, expl	ain the Change Order/	Scope impact on DBE p	participation.
No, selec	t below the fact(s) and	the reason(s) for the re	equest (see attached instructions)
Fa	ils or refuses to execut	e written contract;	
Fa	Fails or refuses to perform work in accordance with normal industry standar		
Be	comes bankrupt, insolv	vent or exhibits credit u	nworthiness;
ls i	neligible to work becau	use of suspension or de	ebarment proceedings;
ls	not a responsible contr	act;	
	luntarily withdraws fror thdrawal;	n the project and provid	des to WMATA written notice of its
ls i	neligible to receive DB	E credit for the type of	work required;
Ov or	vner dies or becomes o	disable resulting in inab	ility to complete work on the contract;
Ot	ner documented good	cause (Attach documer	ntation).
Attach a brief stateme	nt of facts describing t	he situation and any do	cumentation to substantiate selection

and any documentation to substantiate selection above

- 2. Date determined the DBE is unwilling, unable or ineligible to perform work: \_\_\_\_\_
- 3. Date of written notice to DBE: \_\_\_\_\_ (Attach a notice with this request, along with a copy of the DBE response.)

	Signature	Date	
1	VMATA DBE LO:		
	Request is: App	proved Denied	
	FOR WMATA	USE ONLY	
W	MATA Contracting Officer Signature	Date	
Pr	ime Contractor Signature	Date	
O	iginal DBE Subcontractor Signature	Date	
10	. Is this project scheduled to meet the assessed DBE go	al? Yes No	
	No, provide Good Faith Effort (GFE) documentation	on	
	Yes, please provide new DBE Letter of Intent, Ve	ndor ID No. or DBE Cert. No.:	
9.	Is the replacement a WMATA certified DBE?		
8.	Projected date for replacement Subcontractor to comm	ence work	
7.	Proposed Subcontractor Name(s) (if applicable).		
6.	DBE amount to be substituted \$		
5.	Amount paid to DBE for work completed \$		
4.	Amount of DBE subcontract. \$		

#### **DBE Certification Instructions**

#### **Important Notice**

If you do not have a current, official letter of certification from WMATA, D.C. DOT or MWUCP, you are not pre-certified and are therefore not eligible to participate as a Disadvantaged Business Enterprise on the bid.

For those who wish to access the MWUCP certification application, it may be found on the internet at the following address:

<u>https://www.wmata.com/business/disadvantaged\_business\_enterprise</u>. Go to "Procurement and Contracting", click on "Disadvantaged Business Enterprise", then click on "DBE Application for Certification".

49 CFR Part 26 gives Metropolitan Washington Unified Certification Program (MWUCP) ninety (90) days in which to process a complete DBE application. In order to become certified and participate in the MWUCP, you must comply with the procedures that follow. Certification must be final before the due date for bids or offers on a contract on which a firm seeks to participate as a DBE.

#### Instructions

49 C.F.R. § 26.81(d) of the Certification Procedures requires a firm to be certified as a DBE in its "home state," where its principal place of business is located, in order to become certified outside such "home state". Therefore, you must attach to the MWUCP application, a copy of a valid DBE Certification letter from your home state's Department of Transportation. In addition, submit the pertinent documents for your company listed below. The application should be completed in full and NOTARIZED.

**General** (All firms must submit these documents.)

Current (unaudited) Financial Statements; Prior three (3) years Federal Tax Returns; Resume of Principal(s) and Key Personnel; Third Party Agreements, such as Rental and Management Agreements; Licenses to Do Business; Personal Net Worth (PNW) Statement; Statement of Disadvantage; No Change Affidavit or Notice of Change (where applicable).

#### Corporations

Articles of Incorporation; By-Laws; Copies of any Stock Options; Copies of Stock Certifications of Each Holder; Copies of Stockholders' Voting Rights; Record of First Organizational Meeting.

#### Partnerships

Partnership Agreement

#### Proprietorships

APPENDIX B-19

IRS Employer ID Number WMATA Vendor ID#

#### **Limited Liability Companies**

Operating Agreement with any amendments; Certificate of Formation, U.S. Income Tax Returns.

#### Change of Status Review

On or before each certification anniversary date, you must submit a <u>No Change Statement</u> attesting that there have been no changes in the firm's circumstances affecting its ability to meet the eligibility requirements of 49 CFR Part 26 or WMATA's DBE Program Plan. Firms with changed circumstances must submit a <u>Notice Regarding Change</u> for review by the DBE Office. A review of these changes shall be made to determine if the firm is in compliance with the 49 CFR Part 26.

#### Affidavit Enclosure

**NOTE:** When completing MWUCP Application, complete all information blocks. Type "N/A" if item does not apply to you or your firm.

#### DBE MANUFACTURER'S AFFIDAVIT

I hereby declare and affirm that I am	(Title)
and duly authorized representative of	(Name of Company),
a	owned and controlled enterprise
whose address is	

I further declare and affirm that company employees (persons not on the payroll of and/or performing the same tasks for disadvantaged owned business having any interest in the affiant's business) operate the following company equipment relative to the manufacturing process:

Equipment					
Туре	Function	Model	Age	Make	

Number of employees involved in the manufacturing process:

The undersigned swears that the foregoing statements are true and correct and fully understands that WMATA may rely on these statements in determining whether a WMATA prime contractor purchasing goods from the undersigned's manufacturing concern is entitled to a 100% credit of such purchases towards its DBE goal. The undersigned further understands that any material misrepresentation will be grounds for initiating action under Federal or state laws concerning false statements.

Si	ignature of Affiant		F	Printed Name	
Date:	State: _		County:		
On this	day of _			, 19	
before me appeare	d				
		(Name)			
		duly sworn, did execute the fore			
	,		of Firm)		
to execute the Affic	lavit and did so as l	his or her free act and deed.	0,1111,		
(Seal)	Sи	vorn and subscribed before me			
			(N	lotary Public)	
	Со	ommission Expires:	•	, ,	
				23.29 (10/99)	Μ

## Information for Determining Joint Venture Eligibility

	Page 1
Name and address of Joint Venture:	
Contact Person:	Telephone:
Have you attached a copy of the Joint Venture	agreement? []Yes []No
NOTE: Affidavit will not be processed without	a copy of the Joint Venture agreement.
Name and address of Joint Venture partner:	
Contact Person:	Telephone:
Status of firm: [] DBE. [] Non-Minority.	
Does firm have current WMATA, D.C. DOT or	MWUCP DBE certification? [] Yes [] No
Contact Person:	Telephone:
Status of firm: [] DBE. [] Non-Minority.	
Does firm have current WMATA, D.C. DOT or	MWUCP DBE certification? [] Yes [] No
Describe the nature of the Joint Venture's busi	ness:
Describe the role in the Joint Venture of each p	partner listed above:
	ations of each partner in the Joint Venture listed above:
Supplementary Conditions DBB V1 8/2013	APPENDIX B-22 Amendment No. 02

Information for Determining Joint Venture Eligibility	
<b>C C</b> <i>f</i>	

				Page 2			
	licate the percentage herever applicable.						
	Name of Partner	Ownership	Loss Sharing	-	quipment	-	s
_							
T	OTALS:						
pa	entify by name, title, ra rticipation in this conti	ract:				-	ment control of a
1.	,			-			
							-
				Sex:			
_	Company affiliation:						-
2.	-		-	-	-	firing, purchasing su	
	Name:			Race: _			-
	Title:			Sex:	[] Male	[] Female	
	Company affiliation:	·····					-
3.	Supervision of field	operations:					
	Name:			Race:			-
	Title:			Sex:	[] Male	[] Female	
	Company affiliation:						_
	M .06c (Rev 10/99)						
AP	PENDIX B-23					Sup	plementary Condit

#### Information for Determining Joint Venture Eligibility

Page 3

The undersigned swear that the foregoing statements are correct and include all material information necessary to identify and explain the terms and operations of our following named Joint Venture:

and the intended participation by each Joint Venturer in the undertaking. Further, the undersigned covenant and agree to provide the Authority current, complete and accurate information regarding actual Joint Venture work and the payment thereof and any proposed changes in any of the Joint Venture arrangements and to permit the audit and examination of the books, records and files of the Joint Venture, or those of each Joint Venturer relevant to the Joint Venture, by authorized representatives of the Authority or the Federal funding agency. Any material misrepresentation will be grounds for terminating any contract which may be awarded and for initiating action under Federal and State laws concerning false statements.

It is recognized and acknowledged that the Authority's DBE Program shall have access to the information provided herein above for the purpose of establishing eligibility and authenticity of the minority/woman-owned status of the Joint Venture.

It is understood that trade secrets and information privileged by law, as well as commercial, financial, geological and geophysical data furnished will be protected.

(NAME OF FIRM)	(NAME OF SECOND FIRM)
(SIGNATURE OF AFFIANT)	(SIGNATURE OF AFFIANT)
(PRINT NAME)	(PRINT NAME)
(TITLE)	(TITLE)
(DATE)	(DATE)
23.29 (10/99)	

### Information for Determining Joint Venture Eligibility

		Page 4	
	State:		
On this	day of		, 19,
before me ap	opeared(Nar		
	(Nar	ne)	
•	ally known, who, being duly sworn, did exect roperly authorized by		
	(	Name of Firm)	
to execute th	e Affidavit and did so as his or her free act a	nd deed.	
(Seal)	Sworn and subscribed before me		
( )		(Notary Public)	
	Commission Expires:		
	-		_
Date:	State:	County:	
On this	day of		, 19,
before me ar	opeared		
	(Name)		
	nally known, who, being duly sworn, did exect roperly authorized by		
		Name of Firm)	· · · · · · · · · · · · · · · · · · ·
to execute th	e Affidavit and did so as his or her free act a	nd deed.	
(Seal)	Sworn and subscribed before me		
( )		(Notary Public)	
	Commission Expires:		_
<u></u>			
м	23.06c (Rev 10/99)		

#### Washington Metropolitan Area Transit Authority

#### DISADVANTAGED BUSINESS ENTERPRISE (DBE) MONTHLY PROMPT PAYMENT REPORT

#### PRIME – CONTRACTOR'S REPORT

This report is required to be submitted to the Office of Procurement, DBE Branch 600 5th Street, NW, Suite 3C, Washington, DC 20001, pursuant to the requirements of WMATA's DBE Program Plan and §26.29 of 49 CFR Part 26.

Contract No.: \_\_\_\_\_ Reporting Period:

Name of Prime Contractor:

DB<u>E – Yes\_or\_No</u>

Prime Contract Amount: Total Received this Reporting Period: Total Received to Date: DBE Goal

Name of Sub-	DBE	Description of Work	Date of Contract	Amount of Sub-	Amount Paid This	Cumulative Paid	% of Physical
Contractor	(Y/N)	Description of work	Awarded	Contractor Award	Reporting Period	To Sub-Contractor	Work Complete
			l				
			TOTAL				

I certify the information furnished with respect to DBE subcontractor performance correct to the best of my knowledge and represents a current status of the prime contractor with the DBE subcontractors for the designated period covered by this report. Further, those subcontractors, due payment pursuant to the terms of their subcontracts will be paid within ten days after receipt of payment from WMATA.

By: \_\_\_\_\_

Title:

Date:

#### Washington Metropolitan Area Transit Authority

#### DISADVANTAGED BUSINESS ENTERPRISE (DBE) MONTHLY PROMPT PAYMENT REPORT

#### SUBCONTRACTOR'S REPORT

This report is required to be submitted to WMATA's DBE Office, 600 5<sup>th</sup> Street, NW, Suite 3C, Washington, DC 20001, pursuant to the requirements of WMATA's DBE Program Plan and 49 C.F.R. §26.29.

Contract No.: Reporting Period:

Name of Subcontractor:

DBE-Yes or No

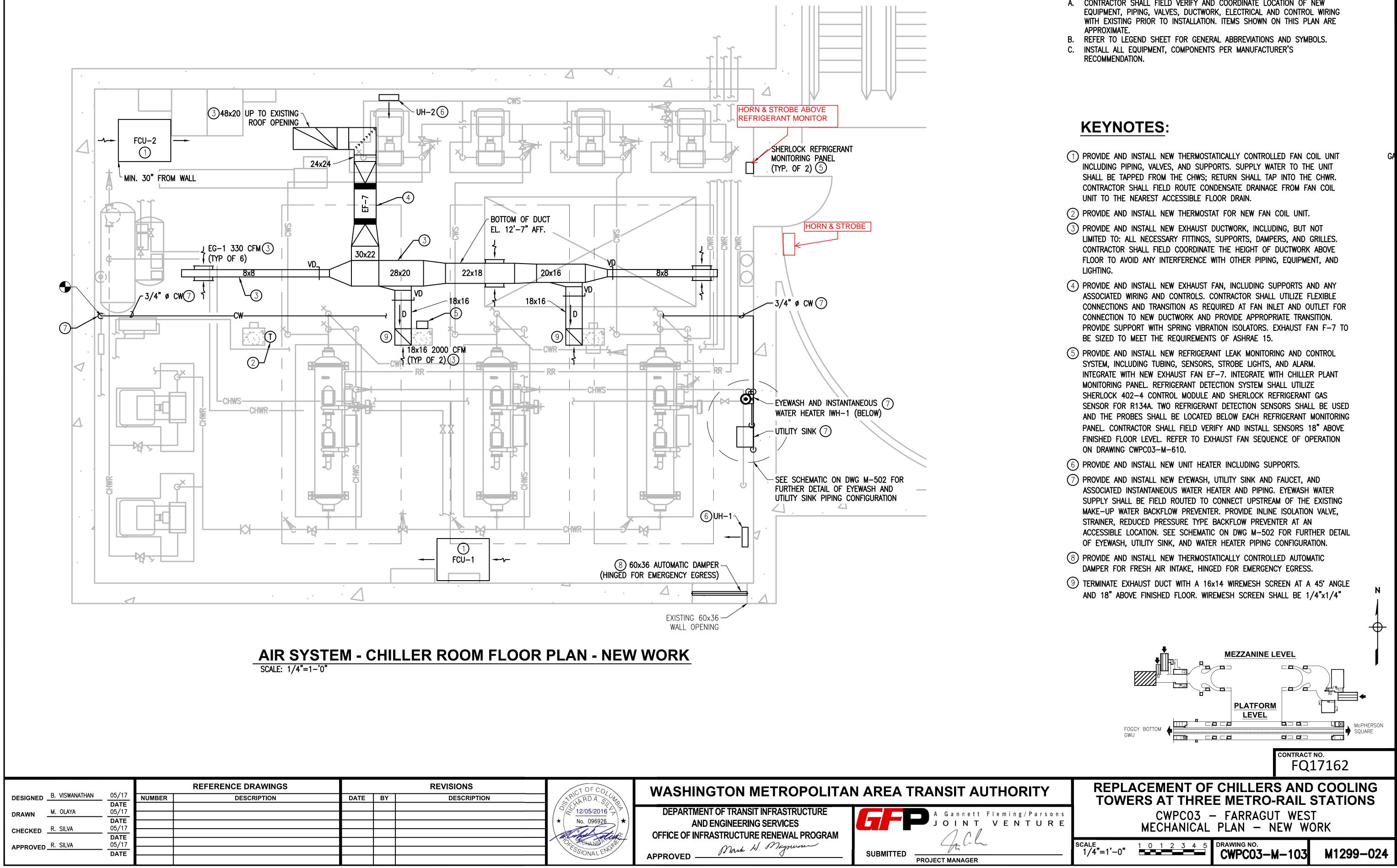
Subcontractor Contract Amount: Total Received this Reporting Period:

Total Received to Date:

Name of Sub- Contractor	DBE (Y/N)	Description of Work	Date of Contract Awarded	Amount of Sub- Contractor Award	Amount Paid This Reporting Period	Cumulative Paid To Sub-Contractor	% of Physical Work Complete
	1	I	TOTAL				

I certify the information furnished with respect to DBE subcontractor performance correct to the best of my knowledge and represents a current status for the designated period covered by this report. Further, those contractors, due payment pursuant to the terms of their subcontracts will be paid within ten days after receipt of payment from the Contractor.

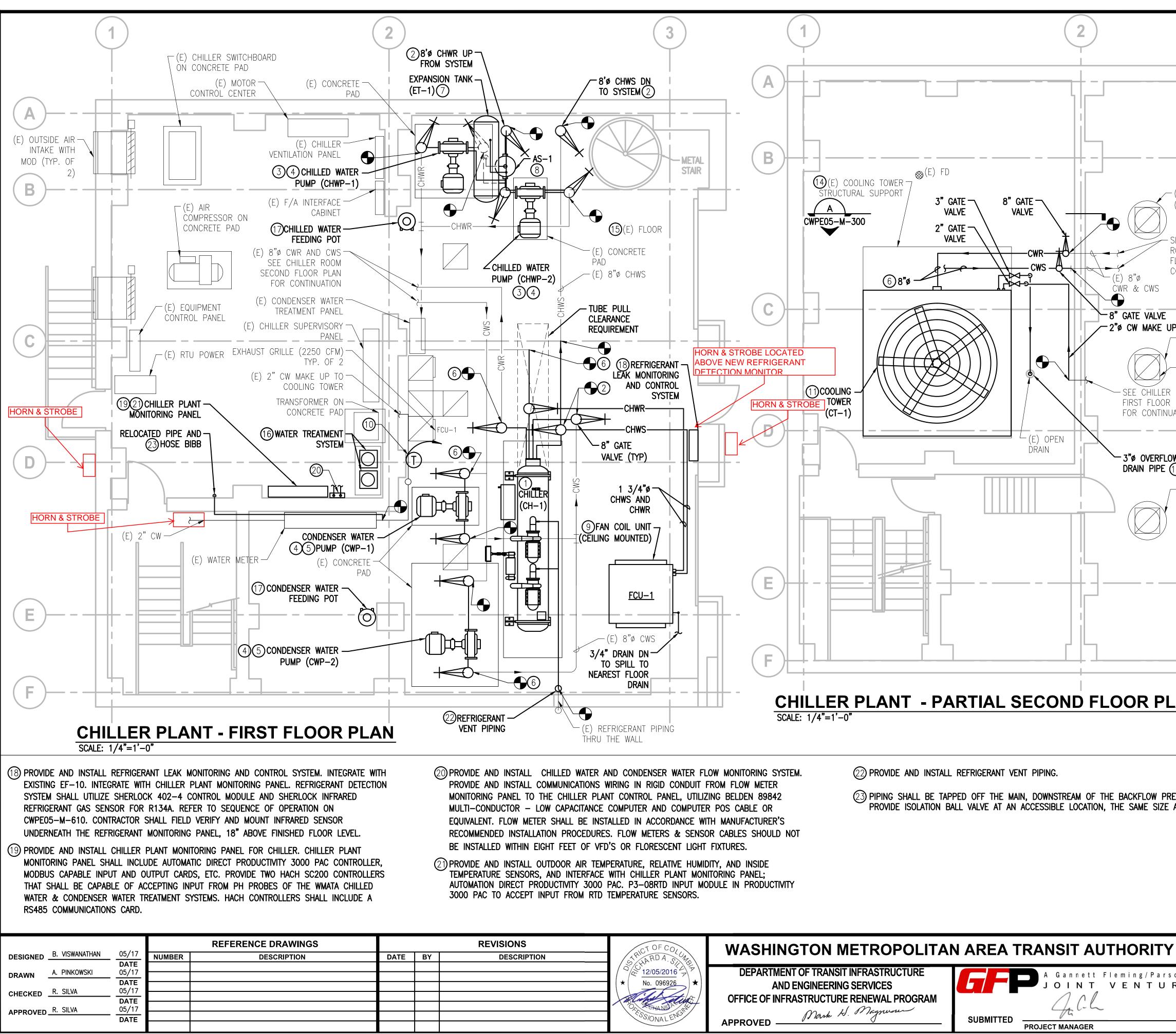
В١	/:	Title:	Date:



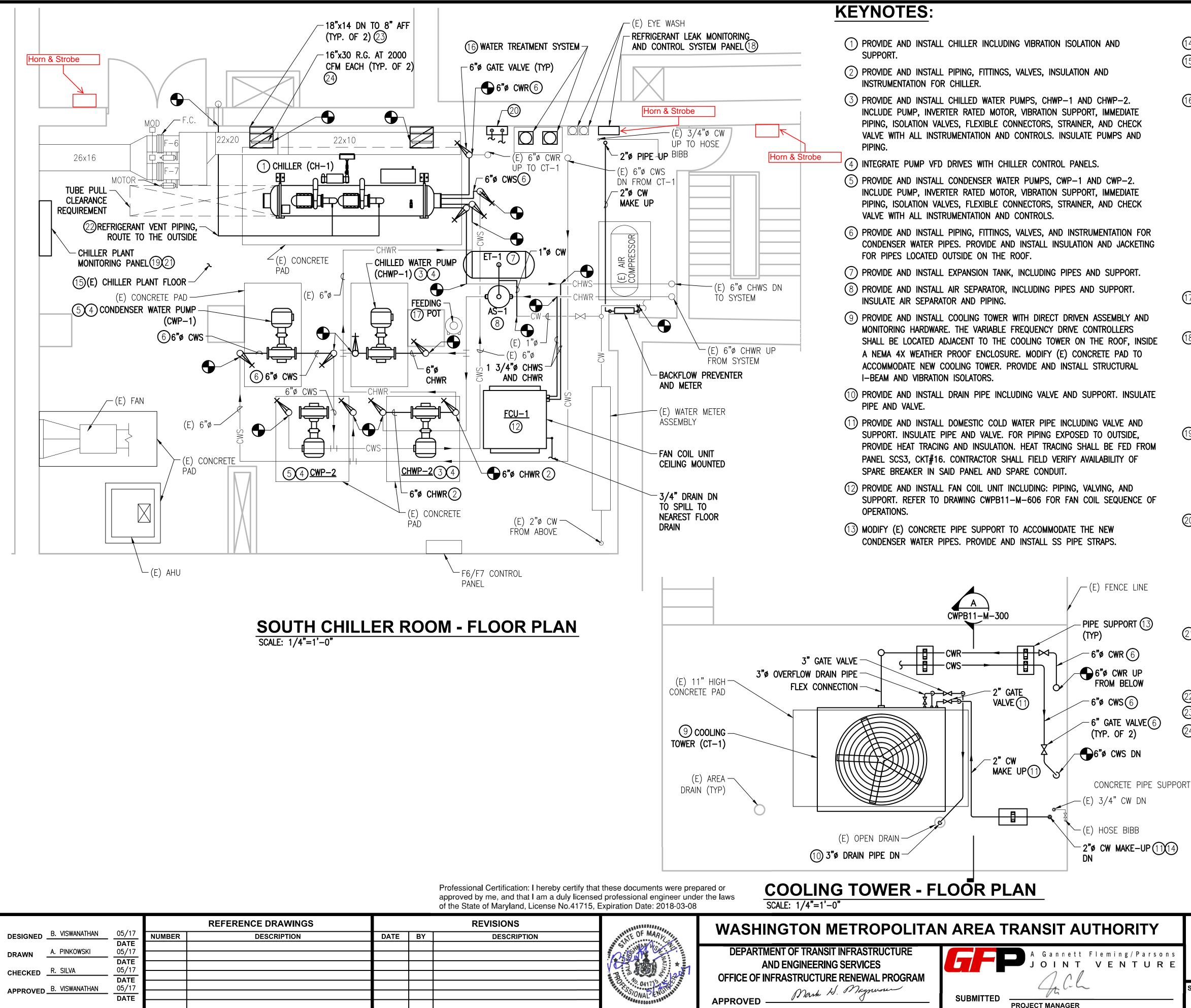
# **GENERAL NOTES:**

- A. CONTRACTOR SHALL FIELD VERIFY AND COORDINATE LOCATION OF NEW

Amendment No. 2



	KEYNOTES:
	1 PROVIDE AND INSTALL CHILLER INCLUDING VIBRATION ISOLATION AND SUPPORT.
	2 PROVIDE AND INSTALL PIPING, FITTINGS, VALVES, INSULATIONS AND INSTRUMENTATION FOR CHILLER.
	3 PROVIDE AND INSTALL CHILLED WATER PUMPS, CHWP-1 AND CHWP-2. INCLUDE PUMP, INVERTER RATED MOTOR, VIBRATION SUPPORT, IMMEDIATE PIPING, ISOLATION VALVES, FLEXIBLE CONNECTORS, STRAINER, AND CHECK VALVE WITH ALL INSTRUMENTATION AND CONTROLS. INSULATE PUMPS AND PIPING.
	(4) INTEGRATE PUMP VFD DRIVES WITH CHILLER CONTROL PANELS.
(E) EF-11 (ON ROOF)	5 PROVIDE AND INSTALL CONDENSER WATER PUMPS, CWP-1 AND CWP-2. INCLUDE PUMP, INVERTER RATED MOTOR, VIBRATION SUPPORT, IMMEDIATE PIPING, ISOLATION VALVES, FLEXIBLE CONNECTORS, STRAINER, AND CHECK VALVE WITH ALL INSTRUMENTATION AND CONTROLS.
EE CHILLER OOM – FIRST LOOR PLAN FOR ONTINUATION	6 PROVIDE AND INSTALL PIPING, FITTINGS, VALVES, AND INSTRUMENTATION FOR CONDENSER WATER PIPES. PROVIDE AND INSTALL INSULATION AND JACKETING FOR PIPES LOCATED OUTSIDE ON THE ROOF.
	7 PROVIDE AND INSTALL EXPANSION TANK, INCLUDING PIPES AND SUPPORT.
	8 PROVIDE AND INSTALL AIR SEPARATOR, INCLUDING PIPES AND SUPPORT. INSULATE AIR SEPARATOR AND PIPING.
(13) -(E) EF-10 (ON ROOF)	PROVIDE AND INSTALL FAN COIL UNIT INCLUDING PIPING, VALVING AND SUPPORT. REFER TO DRAWING CWPE05-M-605 FOR FAN COIL SEQUENCE OF OPERATION.
-(E) 24"x24" DN	PROVIDE AND INSTALL SPACE TEMPERATURE SENSOR. INTEGRATE WITH CHILLER PLANT MONITORING PANEL.
ROOM PLAN ATION	1 PROVIDE AND INSTALL COOLING TOWER WITH DIRECT DRIVEN ASSEMBLY AND MONITORING HARDWARE. THE VARIABLE FREQUENCY DRIVE CONTROLLERS SHALL BE LOCATED ADJACENT TO THE COOLING TOWER ON THE ROOF, INSIDE A NEMA 4X WEATHER PROOF ENCLOSURE.
N 2	(12) PROVIDE AND INSTALL OVERFLOW DRAIN PIPE INCLUDING VALVE AND SUPPORT. INSULATE PIPE AND VALVE.
<b>2)</b> -(E) EF-12 (ON ROOF)	<ul> <li>PROVIDE AND INSTALL DOMESTIC COLD WATER PIPE INCLUDING VALVE AND SUPPORT. INSULATE PIPE AND VALVE. FOR PIPING EXPOSED TO OUTSIDE, PROVIDE HEAT TRACING AND INSULATION. HEAT TRACING SHALL BE FED FROM PANEL CH IN CHILLER ROOM, CKT#8.</li> </ul>
	(14) PAINT EXISTING STEEL SUPPORT FOR COOLING TOWER. BEFORE PAINTING REMOVE RUST AND PROVIDE PRIMER AND FINISH PAINT FOR EXTERIOR WEATHER.
	(15) CONTRACTOR TO PAINT CHILLER PLANT FLOORS AND EQUIPMENT PADS WITH BATTLE SHIP GRAY OR EQUAL. TRIPPING HAZARDS YELLOW OR RED.
	(16) A. PROVIDE AND INSTALL NALCO 3D TRASAR SOLIDS (OR APPROVED EQUAL) WATER TREATMENT SYSTEM.
<u>AN</u>	<ul> <li>B. PROVIDE AND INSTALL A CHILLED WATER TREATMENT SYSTEM. WATER TREATMENT SYSTEM SHALL INCLUDE PIPING, CHEMICAL SENSORS, AND CONTROLS. SENSORS SHALL INCLUDE: HACH INDUCTIVE CONDUCTIVITY SENSOR – 3725E2T (PART OF THE CHILLER CONTROL PANEL), SENSOR FOR CONDUCTIVITY – 9013000, FLOW SWITCH F–1, AND A CONVERTIBLE DIGITAL DIFFERENTIAL PH SENSOR PRODUCT NUMBER DCP1R2A.</li> </ul>
Venter. As the Piping.	C. PROVIDE AND INSTALL A CONDENSER WATER TREATMENT SYSTEM. WATER TREATMENT SYSTEM SHALL INCLUDE PIPING, CHEMICAL SENSORS, AND CONTROLS. SENSORS SHALL INCLUDE: HACH INDUCTIVE CONDUCTIVITY SENSOR – 3725E2T (PART OF THE CHILLER CONTROL PANEL), SENSOR FOR CONDUCTIVITY – 9013000, FLOW SWITCH F-2, AND A CONVERTIBLE DIGITAL DIFFERENTIAL PH SENSOR PRODUCT NUMBER DCP1R2A.
-5 IIIL I II III6.	17 PROVIDE AND INSTALL CONDENSER AND CHILLED WATER FEEDING POT. CONDENSER FEEDING POT SHALL BE EQUIVALENT TO NEPTUNE BT-15. CHILLED WATER FEEDING POT SHALL BE EQUIVALENT TO NEPTUNE VTF-5HP.
	CONTRACT NO.
	FQ17162
	EPLACEMENT OF CHILLERS AND COOLING
ons RE	OWERS AT THREE METRO-RAIL STATIONS CWPE05 – GEORGIA AVE – PETWORTH MECHANICAL PLAN – NEW WORK
SCALE 1/4"=1	1 0 1 2 3 4 5 <b>DRAWING NO</b> .



- (14) PROVIDE FLOOR PENETRATION FOR NEW CW PIPE.
- (15) CONTRACTOR TO PAINT CHILLER PLANT FLOORS AND EQUIPMENT PADS WITH BATTLE SHIP GREY OR EQUAL AND THE SAFETY LINES AND TRIPPING HAZARD YELLOW OR RED.
- (16) A. PROVIDE AND INSTALL NALCO 3D TRASAR SOLIDS (OR APPROVED EQUAL) WATER TREATMENT SYSTEM.
  - B. PROVIDE AND INSTALL A CHILLED WATER TREATMENT SYSTEM. WATER SYSTEM SHALL INCLUDE PIPING, CHEMICAL SENSORS, AND CONTROLS. SENSORS SHALL INCLUDE: HACH INDUCTIVE CONDUCTIVITY SENSOR -3725E2T (PART OF THE CHILLER CONTROL PANEL), SENSOR FOR CONDUCTIVITY - 9013000, FLOW SWITCH F-1, AND A CONVERTIBLE DIGITAL DIFFERENTIAL PH SENSOR PRODUCT NUMBER DCP1R2A.
  - C. PROVIDE AND INSTALL A CONDENSER WATER TREATMENT SYSTEM. WATER SYSTEM SHALL INCLUDE PIPING, CHEMICAL SENSORS, AND CONTROLS. SENSORS SHALL INCLUDE: HACH INDUCTIVE CONDUCTIVITY SENSOR - 3725E2T (PART OF THE CHILLER CONTROL PANEL), SENSOR FOR CONDUCTIVITY - 9013000, FLOW SWITCH F-2, AND A CONVERTIBLE DIGITAL DIFFERENTIAL PH SENSOR PRODUCT NUMBER DCP1R2A.
- (17) PROVIDE AND INSTALL CONDENSER AND CHILLED WATER FEEDING POT. CONDENSER FEEDING POT SHALL BE EQUIVALENT TO NEPTUNE BT-15. CHILLED WATER FEEDING POT SHALL BE EQUIVALENT TO NEPTUNE VTF-5HF.
- (18) PROVIDE AND INSTALL REFRIGERANT LEAK MONITORING AND CONTROL SYSTEM. INTEGRATE WITH EXISTING F-6 & F-7. INTEGRATE WITH CHILLER PLANT MONITORING PANEL. REFRIGERANT DETECTION SYSTEM SHALL UTILIZE SHERLOCK 402-4 CONTROL MODULE AND SHERLOCK INFRARED REFRIGERANT GAS SENSOR FOR R134A. REFER TO SEQUENCE OF OPERATION ON CWPB11-M-610. CONTRACTOR SHALL FIELD VERIFY AND MOUNT INFRARED SENSOR UNDERNEATH THE REFRIGERANT MONITORING PANEL, 18" ABOVE FINISHED FLOOR LEVEL.
- (19) PROVIDE AND INSTALL CHILLER PLANT MONITORING PANEL FOR CHILLER. CHILLER PLANT MONITORING PANEL SHALL INCLUDE AUTOMATIC DIRECT PRODUCTIVITY 3000 PAC CONTROLLER, MODBUS CAPABLE INPUT AND OUTPUT CARDS, ETC. PROVIDE TWO HACH SC200 CONTROLLERS THAT SHALL BE CAPABLE OF ACCEPTING INPUT FROM PH PROBES OF THE WMATA CHILLED WATER & CONDENSER WATER TREATMENT SYSTEMS. HACH CONTROLLERS SHALL INCLUDE A RS485 COMMUNICATIONS CARD.
- (20) PROVIDE AND INSTALL CHILLED WATER AND CONDENSER WATER FLOW MONITORING SYSTEM. PROVIDE AND INSTALL COMMUNICATIONS WIRING IN RIGID CONDUIT FROM FLOW METER MONITORING PANEL TO THE CHILLER PLANT CONTROL PANEL, UTILIZING BELDEN 89842 MULTI-CONDUCTOR - LOW CAPACITANCE COMPUTER AND COMPUTER POS CABLE OR EQUIVALENT. FLOW METER SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDED INSTALLATION PROCEDURES. FLOW METERS & SENSOR CABLES SHOULD NOT BE INSTALLED WITHIN EIGHT FEET OF VFD'S OR FLORESCENT LIGHT FIXTURES.
- (21) PROVIDE AND INSTALL OUTDOOR AIR TEMPERATURE, RELATIVE HUMIDITY, AND INSIDE TEMPERATURE SENSORS, AND INTERFACE WITH CHILLER PLANT MONITORING PANEL; AUTOMATION DIRECT PRODUCTIVITY 3000 PAC. P3-08RTD INPUT MODULE IN PRODUCTIVITY 3000 PAC TO ACCEPT INPUT FROM RTD TEMPERATURE SENSORS.
- (22) PROVIDE AND INSTALL REFRIGERANT VENT PIPING.
- (23) provide and install ductwork to branch including volume damper.
- (24) PROVIDE AND INSTALL 16"x30" RETURN GRILLE EQUAL TO TITUS 350RL.

		contract no FQ17	
	REPLACEMENT OF CHILLER TOWERS AT THREE METRO		
ons RE	CWPB11 - GLENN MECHANICAL PLAN - N	IONT	
	scale 1/4"=1'-0" 1 0 1 2 3 4 5 DRAWING NO. CWPB11-I	M—101	M1299-014

Contractor shall be responsible for all permits and inspections. Contractor shall comply with Federal and jurisdictional requirements and codes pertaining to this project. Contractor shall also comply with all safety requirements and permits required by WMATA.

#### 00103 PROJECT BID SCHEDULE

The Bid schedule for this Project is as follows:

- 1. Issue Invitation for Bid: April 17, 2018
- Pre-Bid Conference/Site Visit: Monday, April 30, 2018 at 08:00a.m. (Please arrive at the Lobby Receptionist between 7:30 – 08:00 a.m.) at WMATA, Jackson Graham Building, 600 5<sup>th</sup> Street, Washington, DC 20001. The second site visit will be on the following day after the first site visit at 10:00 and the starting location would be arranged during the first site visit.

WMATA will have representatives of our procurement, insurance, DBE, safety, and DECO. WMATA certified DBE's are strongly encouraged to attend.

All attendees must provide a WMATA Contractor ID or a government issued identification for entry into the Jackson Graham Building. Individuals that plan to attend the meeting are requested, but not required, to send an email to <u>kkbanjo@wmata.com</u>, 24 hours in advance, with name, title, company name, mailing address, telephone, and email for each attendee.

Attendees should arrive early in order to clear security and/or receive temporary badges.

WMATA will conduct site visits at all locations immediately after the Pre-Bid Conference. The site visit will start at the Pre Bid Conference. Attendees must ride the Metrorail to each station. Attendees must be escorted by WMATA personnel.

Attendees that have a current WMATA Contractor ID shall display their ID and bring PPE and WMATA approved safety vest. Attendees not holding WMATA Contractor ID with PPE and vest should specifically identify themselves to the WMATA escorts. WMATA must arrange escorts based upon the number of attendees.

- 3. ## Bid Opening: May 23, 2018 ##
- 4. ## Projected Contract Award: July 02, 2018 ##
- 5. ## Projected Notice To Proceed: September 24, 2018 ##

END OF SECTION



May 11, 2018

Re: IFB FQ18102/KKB Replacement of Chiller and Cooling Tower Accessories At Eight (8) Metro-Rail Stations: DC, MD, and VA Request for Clarification/Information Response

Dear Prospective Respondent:

In response to your Request for Clarification/Information, the response is provided to question.

WMATA appreciates your interest in its procurement process and we look forward to receiving your bid on or before May 23, 2018.

As always, should you require further assistance, kindly contact Kamoru Banjo of the Office of Procurement and Materials by email at <u>kkbanjo@wmata.com</u>.

#### Washington Metropolitan Area Transit Authority

600 Fifth Street, NW Washington, D.C. 20001 202/962-1234

By Metrorail: Judiciary Square-Red Line Gallery Place-Chinatown Red, Green and Yellow Lines

> A District of Columbia Maryland and Virginia Transit Partnership

Sincerely,

Norie A. Calvert

Contracting Officer Office of Procurement and Materials

# Solicitation FQ18102/KKB; Replacement of Chiller and Cooling Accessories at Eight (8) Metro-Rail Stations: DC, MD, and VA RFI Log Responses RFI Responses/Clarifications-RFI No. 1 thru 21

RFI No.	Amendment No.	RFI Description	RFI Response
1		The specifications call for a Quality Control Manager to be onsite whenever work is occurring. Since we will be working at multiple stations simultaneously, do we need to have six separate QC Managers(one at each site)? Or can we have a Roving QC Manager who visits each station on a daily basis?	One Quality Control Manager can visit each location and coordinate with each site Project Foreman.
2		The specifications call for a Safety Superintendent to be onsite whenever work is occurring. Since we will be working at multiple stations simultaneously, do we need to have six separate Safety Superintendents (one at each site)? Or can we have a Roving Safety Superintendent who visits each station on a daily basis?	The Safety Superintendent can be the Project Foreman for each site. See Spec 01114 Section 1.05.B Safety Requirements, specifying "Category II".
3		Does the Safety Superintendent have to be a CSP? This involves special degrees and extensive coursework. Most Safety Superintendent do not possess a CSP certification.	See Spec 01114 Section 1.05B. Safety Requirements, specifying "Category II".
4		The specifications call for a General Superintendent to be onsite whenever work is occurring. Since we will be working at multiple stations simultaneously, do we need to have six separate General Superintendents (one at each site)? Or can we have a Roving General Superintendent who visits each station on a daily basis?	No, each Project Foreman at each site can act as the General Superintendent.

RFI No.	Amendment No.	RFI Description	RFI Response
5	2	The Power Point presentation from the pre bid meeting states that the NTP for this project will be approximately September 24, 2018. Does that information appear anywhere in the bid documents?	Yes, Advert to Amendment No. 02
6		Several subcontractors have requested the opportunity to visit each site. The rigging companies, in particular, need to confirm existing conditions, so as to be able to give an accurate price for the work. Is there any way that an additional site visit might be arranged?	No, there will be no additional site surveys.
7		Please advise if it is acceptable to use the existing rigging bolts (in the ceiling) at Farragut North chiller plant for rigging of equipment and material.	No, the existing rigging bolts cannot be used.
8		Please advise if tunnel access panels can remain open for extended shifts. Openings would be safely secured to ensure no trash, material, etc. could fall through.	No, but a PE Stamped designed plywood cover secured and anchored over the opening can be submitted for approval.
9		Please advise if it is acceptable to use the monorail and chainfall that was in place during the pre-bid walk through. This rigging equipment was located outside the chiller plant above the tunnel access panels.	The existing trolley and chain fall appears to be in great condition, but will have to be approved by SAFE before using to confirm it can handle the weight capacity of the existing and new chiller.
		Please provide the following clarification for utilizing prime movers for equipment and material.	Prime mover support must be requested 3 weeks in advance.
10		Please provide the dimensions of the bed of the prime mover.	The average flat car of a prime mover is $53'6''$ long x 10' wide x 3'6" tall from the top of the rail. See attached dynamic outline/envelope figure for bringing in equipment.

RFI No.	Amendment No.	RFI Description	RFI Response
11		Please provide the following clarification for utilizing prime movers for equipment and material.	
		Please provide the maximum allowable height/clearance required of equipment and material on the prime mover.	See attached dynamic outline/envelope figure and photos of the prime mover flat car.
		What is the maximum usable space above the bed of the prime mover?	The average flat car of a prime mover is $53'6''$ long x 10' wide x 3'6" tall from the top of the rail. See attached dynamic outline/envelope figure for bringing in equipment.
12		Please provide the following clarification for utilizing prime movers for equipment and material.	
		Please provide the availability of prime movers for contractors in a typical week.	Prime mover support must be requested 3 weeks in advance
		How much advance notice is required to use a prime mover.	Prime mover support must be requested 3 weeks in advance
13		Will Johnson Controls Metasys be an approved DDC Vendor for this project?	Metasys is a BAS system. This project does not call for a BAS system to be installed.
14		Please advise if gantrys are acceptable for rigging of equipment and material. The intent is to use them over the openings above the train tracks and certain air shafts.	Gantry's are acceptable, but must be approved by WMATA SAFE before using.
15		The documents call for a HACH SC200 for both the CHW and Tower systems. This controller can only handle 2 sensors (1 conductivity and 1 PH or a combination of any sensors with a max of 2). The CHW has a conductivity probe and the condenser water has a PH and conductivity probe. For this	Bidders offering "equal" products including products of the brand name manufacturer other than the one described by brand name, will be considered by the Authority if such product are clearly identified in the Bid and are determined by the Authority to meet fully the

RFI No.	Amendment No.	RFI Description	RFI Response
		you would need to purchase 2 controllers. The Webmaster is a much better unit and can be integrated to monitor the Chilled water	salient characteristics requirements in the IFB Specification.
		conductivity, as required, with one controller rather than 2 HACH which saves WMATA money on equipment. Webmaster is definitely an equal if not an upgrade.	Unless the Bidder clearly indicates that it is offering an "equal" product by submitting Section 00433, BRAND NAME OR EQUAL FORM, the Bidder shall be considered as offering a brand name product referenced in
		Can we use one webmaster instead of two HACH SC200 controllers.	the IFB Documents.
16		Are the chemical treatment tanks to be single or double wall?	Chemical treatment is not part of this contract. The contract drawings provide a basis of design for the shock pots. Shock pots need to be installed across all CHW & CW pumps at each site.
17		Please verify the existing to remain conduit raceway is intact between the chillers and towers for the interlock.	Existing conduits between the chiller and the cooling tower can be reused. Damaged or corroded conduits need to be replaced.
18		Please confirm the leak detection systems being installed currently under a different contract will remain. If so, please provide a list to delete the new units not needed in this package.	Medical Center, Columbia Heights, Clarendon and Ballston.
19		Spec Section 15280-3 Para 3.01 2.a. states that all locations except mechanical rooms calls for cellular glass. 2.b calls for fiberglass in mechanical rooms but no thickness is given.	2 inch thick cellular glass is to be installed. Fiberglass is not acceptable in the chiller plant.
20		Section 15208-5C. Insulation thickness calls for cellular glass no fiberglass.	2 inch thickness.
21		Please clarify what type of insulation is required for the mechanical rooms and insulation thickness.	All chilled water piping shall have 2 inch cellular glass insulation.

