

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE J	PAGE OF PAGES 1 11
2. AMENDMENT/MODIFICATION NO. 0003	3. EFFECTIVE DATE 27-Jan-2012	4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO.(If applicable)
6. ISSUED BY U. S. ARMY ENGINEER DISTRICT, LOUISVILLE 600 DR. MARTIN LUTHER KING, JR. PLACE ROOM 821 LOUISVILLE KY 40202-2239	CODE W912QR	7. ADMINISTERED BY (If other than item 6) MILITARY/RESERVE BRANCH 600 DR. M. L. KING, JR. PL., RM 821 ATTN: JENNIFER J. ANDERSON LOUISVILLE KY 40202-2267		CODE H2CTCJJA
8. NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code)			X	9A. AMENDMENT OF SOLICITATION NO. W912QR-11-R-0051
			X	9B. DATED (SEE ITEM 11) 05-Jan-2012
				10A. MOD. OF CONTRACT/ORDER NO.
				10B. DATED (SEE ITEM 13)
CODE	FACILITY CODE			
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS				
<input checked="" type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offer <input type="checkbox"/> is extended, <input checked="" type="checkbox"/> is not extended.				
<p>Offer must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended by one of the following methods:</p> <p>(a) By completing Items 8 and 15, and returning <u>5</u> copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.</p>				
12. ACCOUNTING AND APPROPRIATION DATA (If required)				
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.				
A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.				
B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(B).				
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:				
D. OTHER (Specify type of modification and authority)				
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input type="checkbox"/> is required to sign this document and return _____ copies to the issuing office.				
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)				
Solicitation W912QR-11-R-0051 for the Design and Construction of an Army Reserve Center, Panama City, FL is hereby amended as follows:				
a. The proposal due date is 8 February 2012, 12:00 pm, EST.				
b. This amendment must be acknowledged with submitted proposal.				
Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.				
15A. NAME AND TITLE OF SIGNER (Type or print)			16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)	
			TEL:	EMAIL:
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA		16C. DATE SIGNED
_____ (Signature of person authorized to sign)		BY _____ (Signature of Contracting Officer)		27-Jan-2012

SECTION SF 30 BLOCK 14 CONTINUATION PAGE

SUMMARY OF CHANGES

SECTION SF 30 - BLOCK 14 CONTINUATION PAGE

The following have been added by full text:

AMENDMENT 0003

c. The following specification change is incorporated by this amendment:

Spec	Action	Modification
01 02 00.00 48 Part 9	Replace Part 9 in entirety	Modified paragraph 9.3.2 to clarify location of hydrant for wash platform.

d. The following wage rates are incorporated by this amendment:

General Decision Number: FL120007 01/20/2012 FL7

Superseded General Decision Number: FL20100106

State: Florida

Construction Type: Building

County: Bay County in Florida.

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

Modification Number	Publication Date
0	01/06/2012
1	01/20/2012

* ELEC1205-004 06/01/2011

	Rates	Fringes
ELECTRICIAN.....	\$ 23.08	14%+4.83

 ENGI0653-009 10/01/2011

	Rates	Fringes
OPERATOR: Concrete Pump.....	\$ 25.30	11.13
OPERATOR: Mechanic.....	\$ 25.30	11.13
OPERATOR: Oiler.....	\$ 23.85	11.13
OPERATOR: Boom Truck.....	\$ 25.30	11.13

 IRON0798-006 10/01/2008

	Rates	Fringes
IRONWORKER, ORNAMENTAL AND REINFORCING.....	\$ 22.03	11.75

 PAIN0164-002 08/01/2010

	Rates	Fringes
PAINTER: Spray Only.....	\$ 17.00	7.40

 PLUM0366-004 08/01/2011

	Rates	Fringes
PIPEFITTER (HVAC Pipe Installation Only).....	\$ 22.36	9.03

 SUFL2009-003 05/22/2009

	Rates	Fringes
BRICKLAYER.....	\$ 17.59	0.00
CARPENTER.....	\$ 13.73	0.49
CEMENT MASON/CONCRETE FINISHER...	\$ 12.92	0.00
INSULATOR - PIPE & PIPEWRAPPER...	\$ 13.13	3.03
IRONWORKER, STRUCTURAL.....	\$ 16.00	0.00
LABORER: Asphalt Shoveler.....	\$ 7.88	0.00
LABORER: Common or General.....	\$ 9.00	0.00
LABORER: Concrete Saw.....	\$ 12.63	0.00
LABORER: Mason Tender - Brick...	\$ 10.75	0.00
LABORER: Mason Tender - Cement/Concrete.....	\$ 12.83	1.90
LABORER: Pipelayer.....	\$ 10.00	0.00
LABORER: Roof Tearoff.....	\$ 9.00	0.00
LABORER: Landscape and Irrigation.....	\$ 9.45	0.00
OPERATOR: Asphalt Spreader.....	\$ 11.41	0.00
OPERATOR: Backhoe/Excavator.....	\$ 11.00	0.00
OPERATOR: Blade/Grader.....	\$ 13.73	0.00
OPERATOR: Bulldozer.....	\$ 15.01	0.00
OPERATOR: Crane.....	\$ 19.00	0.73
OPERATOR: Distributor.....	\$ 12.37	0.00
OPERATOR: Forklift.....	\$ 14.00	0.00
OPERATOR: Loader.....	\$ 13.80	1.79
OPERATOR: Paver.....	\$ 11.69	0.00
OPERATOR: Roller.....	\$ 10.68	0.00
OPERATOR: Screed.....	\$ 11.34	0.00
OPERATOR: Tractor.....	\$ 9.91	0.00
OPERATOR: Trencher.....	\$ 11.75	0.00

PAINTER: Brush & Roller Only.....\$ 12.00	0.36
PIPEFITTER (Excluding HVAC Pipe Installation).....\$ 13.86	0.00
PLUMBER.....\$ 13.25	0.00
ROOFER (Metal Roofs Only).....\$ 14.26	0.59
ROOFER, Including Built Up, Hot Tar, Modified Bitumen, Shake & Shingle, Single Ply and Slate & Tile (Excluding Metal Roof).....\$ 11.00	0.00
SHEET METAL WORKER, Includes Installation of HVAC Duct.....\$ 14.61	3.26
TILE SETTER.....\$ 18.00	0.00
TRUCK DRIVER: Dump Truck.....\$ 10.00	0.00
TRUCK DRIVER: Lowboy Truck.....\$ 12.09	0.00

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of "identifiers" that indicate whether the particular rate is union or non-union.

Union Identifiers

An identifier enclosed in dotted lines beginning with characters other than "SU" denotes that the union classification and rate have found to be prevailing for that classification. Example: PLUM0198-005 07/01/2011. The first four letters , PLUM, indicate the international union and

the four-digit number, 0198, that follows indicates the local union number or district council number where applicable , i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. The date, 07/01/2011, following these characters is the effective date of the most current negotiated rate/collective bargaining agreement which would be July 1, 2011 in the above example.

Union prevailing wage rates will be updated to reflect any changes in the collective bargaining agreements governing the rate.

Non-Union Identifiers

Classifications listed under an "SU" identifier were derived from survey data by computing average rates and are not union rates; however, the data used in computing these rates may include both union and non-union data. Example: SULA2004-007 5/13/2010. SU indicates the rates are not union rates, LA indicates the State of Louisiana; 2004 is the year of the survey; and 007 is an internal number used in producing the wage determination. A 1993 or later date, 5/13/2010, indicates the classifications and rates under that identifier were issued as a General Wage Determination on that date.

Survey wage rates will remain in effect and will not change until a new survey is conducted.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

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The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

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4.) All decisions by the Administrative Review Board are final.

END OF GENERAL DECISION

General Decision Number: FL120206 01/06/2012 FL206

Superseded General Decision Number: FL20100305

State: Florida

Construction Type: Highway

County: Bay County in Florida.

HIGHWAY CONSTRUCTION PROJECTS

Modification Number Publication Date

0 01/06/2012

SUFL2009-202 08/05/2009

	Rates	Fringes	
CARPENTER.....	\$ 13.03	1.05	
CEMENT MASON/CONCRETE FINISHER...	\$ 10.06	0.00	0.00
ELECTRICIAN.....	\$ 17.12	0.00	
FORM WORKER.....	\$ 12.29	0.00	
HIGHWAY/PARKING LOT STRIPING: Operator (Striping Machine).....	\$ 11.97	2.23	
HIGHWAY/PARKING LOT STRIPING: Painter.....	\$ 13.31	0.00	
IRONWORKER, REINFORCING.....	\$ 14.50	1.37	
IRONWORKER, STRUCTURAL.....	\$ 16.75	3.88	
LABORER: Asphalt Shoveler.....	\$ 10.70	0.00	
LABORER: Common or General.....	\$ 8.30	0.00	
LABORER: Flagger.....	\$ 10.10	3.37	
LABORER: Grade Checker.....	\$ 10.50	0.55	
LABORER: Landscape and Irrigation.....	\$ 8.77	0.00	
LABORER: Luteman.....	\$ 10.32	0.00	
LABORER: Mason Tender - Cement/Concrete.....	\$ 12.00	1.80	
LABORER: Pipelayer.....	\$ 12.13	2.59	

LABORER: Power Tool Operator (Hand Held Drills/Saws, Jackhammer and Power Saws.....\$ 11.23	1.96
OPERATOR: Asphalt Plant.....\$ 12.20	0.00
OPERATOR: Asphalt Spreader.....\$ 10.76	0.00
OPERATOR: Auger.....\$ 19.40	0.44
OPERATOR: Backhoe Loader Combo.....\$ 15.33	0.97
OPERATOR: Backhoe/Excavator.....\$ 10.70	0.00
OPERATOR: Boom.....\$ 16.61	0.00
OPERATOR: Bulldozer.....\$ 14.18	2.56
OPERATOR: Crane.....\$ 15.50	1.86
OPERATOR: Distributor.....\$ 11.47	0.00
OPERATOR: Drill.....\$ 13.00	1.59
OPERATOR: Grader/Blade.....\$ 15.41	3.60
OPERATOR: Loader.....\$ 9.66	0.00
OPERATOR: Mechanic.....\$ 16.20	3.25
OPERATOR: Milling Machine.....\$ 11.91	1.96
OPERATOR: Oiler.....\$ 13.08	2.27
OPERATOR: Paver.....\$ 9.78	0.00
OPERATOR: Piledriver.....\$ 15.59	4.00
OPERATOR: Roller.....\$ 8.82	0.00
OPERATOR: Scraper.....\$ 10.70	1.60
OPERATOR: Screed.....\$ 11.59	0.00
OPERATOR: Tractor.....\$ 9.05	0.00
OPERATOR: Trencher.....\$ 13.41	0.49
PAINTER: Spray and Steel.....\$ 16.62	0.00
TRUCK DRIVER: Distributor.....\$ 11.30	2.26
TRUCK DRIVER: Dump Truck.....\$ 8.66	0.00

TRUCK DRIVER: Lowboy Truck.....\$ 12.19 0.00

TRUCK DRIVER: Material Truck....\$ 12.76 9.80

TRUCK DRIVER: Tractor Haul
Truck.....\$ 10.64 0.00

TRUCK DRIVER: Water Truck.....\$ 10.50 0.00

TRUCK DRIVER: 10 Yard Haul
Away.....\$ 12.50 0.00

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END OF GENERAL DECISION

(End of Summary of Changes)

PART 9

PLUMBING DESIGN

9.1 DESIGN CRITERIA.

9.1.1 Design and install (labor, material, permits, licenses, etc.) the plumbing system. Plumbing system shall be designed, installed, and tested in accordance with all Applicable Criteria located in Part 2.

9.1.2 System design and installation shall conform to the mandatory energy and water conservation criteria in the latest edition of ASHRAE Standard 90.1. Employ water conservation techniques that exceed EPA Act 2005 requirements by 30% or more.

9.1.3 Water hardness data was provided by Bay County Florida Utility Services office. Their contact information is:

Website: <http://www.co.bay.fl.us/utility.php>

Mailing address: Bay County Florida Utility Services Department, 3410 Transmitter Road, Panama City, FL 32404

Phone: (850)872-4785

Contact: Don Murray / dmurray@baycountyfl.gov

Water hardness was indicated to be between 20 – 30 ppm (1.2 – 1.8 grains/gallon). Water softening equipment shall be provided when the water analysis indicates a total hardness exceeding 10 grains/gallon and therefore no water softening systems will be required based on the provided data.

9.1.4 Piping systems shall be identified per ANSI requirements. Equipment shall be identified with engraved and laminated plastic nameplates or black engravable phenolic sheets with white lettering. Valves shall be provided with tags and indexed to a master schedule.

9.1.5 Equipment and materials shall be as specified. Installation shall meet the requirements specified. All materials and equipment shall be the manufacturer's latest design.

9.1.6 The Contractor shall comply with minimum Antiterrorism/Force Protection criteria in accordance with UFC 4-010-01 requirements.

9.1.7 Systems requiring seasonal drainage shall not be used except for lawn irrigation.

9.1.8 No roof-mounted plumbing equipment is permitted, except for solar collectors and associated piping and appurtenances.

9.1.9 Equipment layout shall make provisions for manufacturer's recommended clearance and code requirements.

9.2 DESIGN NARRATIVE AND CALCULATIONS.

9.2.1 Provide a design narrative and calculations as indicated in the Army Reserve Design Process and Submittal Requirements.

9.2.2 Piping design shall be based on the Applicable Criteria for domestic water, sanitary waste and vent piping. All water piping shall be sized in accordance with methods outlined in the International Plumbing Code. An isometric diagram of the water system shall be included in the design submittal. An isometric diagram of the sanitary sewer system shall be included in the design submittal.

9.2.3 Hot water heater sizing shall be based on the methods described in the ASHRAE guidelines for the specific building occupancy and usage utilizing the Office Building category.

9.3 PLUMBING FIXTURES AND EQUIPMENT.

9.3.1 High quality plumbing fixtures with fittings and trim as applicable shall be provided in each building. Fixtures shall be water conservation type in accordance with the IPC. Insulate water and waste piping for accessible lavatories. Provide wall hung high efficiency (1.28 gallons per flush (gpf)) flush valve elongated water closets, low flow lavatories (0.5 gallons per minute (gpm)), ultra-low flow urinals (0.125 gpf), and low flow shower heads (1.5 gpm) .

9.3.2 Freezeproof wall hydrants shall be located at approximate 100-foot intervals on the building exterior. Freezeproof hydrants shall be located on each side of the main entrance to the Training Center and other buildings where the public accessibility is an issue. Provide one exterior wall hydrant **(Amdt. #0003) DELETE * on the outside of the OMS for use at the washbay * (Amdt. #0003) (Amdt. #0003) * for use at the wash platform. See Drawing CU-102 for the wash platform location. The wall hydrant shall be mounted to the wash platform structure or protected by bollards to prevent damage. * (Amdt. #0003)**

9.3.3 Domestic Water Heating Systems.

9.3.3.1 High efficiency condensing storage type water heaters shall be provided for each building, and typically shall be located in the mechanical room. Other locations can be considered for energy savings or distribution issues, and these locations shall be reviewed during design. Domestic water heating is to be provided by electrically heated element and water shall be stored at 140 degrees F. The building hot water supply temperature for the fixtures shall be 110 degrees F provided through a mixing valve assembly. The water heater sizes will be based on ASHRAE guidelines for the specific building occupancy and usage. Water heaters shall comply with the energy conservation requirements of ASHRAE Standard 90.1. Water heaters shall be provided

with fully automatic controls with safety relief valves. Point-of-use instantaneous electric water heaters also can be considered at remote fixture locations.

9.3.3.2 The domestic hot water system shall be sized to provide adequate hot water for all fixtures that require hot water, including lavatories, sinks, showers, etc.

9.3.3.3 The domestic water system shall be served by a recirculation system to provide hot water at remote fixtures continuously when the building is occupied. Provide scald protection at each fixture or group of fixtures.

9.3.4 Solar Domestic Water Heating System

9.3.4.1 In accordance with Public Law 110-140, Energy Independence and Security Act 2007, solar energy will be evaluated as a means of meeting all or part of the hot-water requirements if required by design instructions. If life cycle cost effective, provide at least 30% of building hot water demand by solar water heaters. Conventional back-up heating equipment will be provided for periods when high demand or an extended period of cloudy days exceeds the capacity of the solar energy system.

9.3.5 Emergency Eyewashes and Showers.

9.3.5.1 Provide combination emergency eyewash and shower stations throughout maintenance work bays within the OMS, and provide an emergency eyewash in mechanical rooms where water treatment chemicals are present to meet the requirements of ANSI/ISEA Z358.1, and OSHA. A mixing valve shall be provided to supply tempered water to the emergency shower and eyewash.

9.3.6 Vibration/Noise Isolation.

9.3.6.1 Water hammer arrestors shall be used to minimize water system noise.

9.3.7 Compressed Air System.

9.3.7.1 Compressed air system shall be UL listed and at a minimum composed of duplex compressors, receiver, aftercooler, distribution piping, piping drops and filter regulator units. System compressor, aftercooler, and receiver shall be located in the mechanical room within the OMS. System shall be designed for a working pressure of 125 psi. The compressed air system shall be sized to accommodate the number of drops required with a maximum total pressure drop of 5 psi. Each compressed air drop shall be sized to provide 30 scfm. Compressor shall be sized for full connected load with a 60% diversity allowance. Provide a line size ball type shutoff valve, pipe drip with ball valve drain, a line oiler, a coalescing oil/water filter, and a pressure regulator upstream of each air drop or connection to equipment. Air drops shall be provided with quick disconnects. Contractor shall coordinate quick-disconnect requirements with the Contracting Officer. Provide one outlet within each maintenance bay, total of two.

9.3.8 Not used.

9.4 PIPING SYSTEMS.

9.4.1 Domestic Water Piping System.

9.4.1.1 A separate domestic water service shall be brought into the mechanical room of each building. Isolation shutoff valves shall be provided. Buildings shall be individually metered with the meter located inside the mechanical room of each building. See Part 3 of this section for site utilities and advanced meter requirements. Provide a reduced pressure zone backflow preventer in each incoming domestic water service. Plumbing piping shall be sized to accommodate flush valve plumbing fixtures. Under slab supply piping shall be limited to the domestic water service entrance only.

9.4.1.2 The domestic water piping shall be extended to fixtures, outlets, and equipment. The domestic hot water and cold water piping shall be arranged and installed to permit draining. The supply piping to each piece of equipment or fixture, except faucets, flush valves, or other control valves which are supplied with integral stops, shall be equipped with an accessible shutoff valve to enable isolation of the item for repair and maintenance without interfering with operation of other equipment or fixtures. Supply piping to fixtures, faucets, wall hydrants/hose bibbs, shower heads, and flushing devices shall be anchored to prevent movement. Insulate all domestic cold water, domestic hot water and recirculating water systems.

9.4.1.3 Provide a line sized isolation valve at each branch connection. Locate the valve as close as possible to the branch takeoff.

9.4.1.4 Access panels/doors shall be provided for valves and appurtenances of the plumbing system located behind hard walls or ceilings.

9.4.2 Sanitary Drain, Waste, and Vent Piping Systems.

9.4.2.1 See Part 3 of this section for site utility requirements. Piping system runs within the building are to be kept as short as possible. Metallic vent piping shall be used through the roof from at least 6 inches below the roof to the required point of termination above the roof.

9.4.2.2 All lavatory and sink drains and P-traps shall be coordinated with millwork to isolate drains. The building sanitary sewer shall be designed in accordance with the International Plumbing Code. Coordinate location of floor sinks and floor drains for floor sloping requirements. Floor sinks and floor drain traps subject to loss of seal by evaporation shall be equipped with trap primers. Provision shall be made to collect condensate from the condensate drains and drain to the sanitary sewer system.

9.4.2.3 Provide connections to sand interceptor integral to trench drains at low point in service bays. Trench drains and drainage from wash bays shall be connected to oil/water separators before discharging to the sanitary sewer.

9.4.2.4 Provide floor drain at eyewash/safety shower locations if requested by contracting officer. If floor drains are provided for safety showers, comply with

*** SAFETY PAYS ***

Panama City, Army Reserve Center
Panama City, Florida

Certified Final RFP
Solicitation No. W912QR-11-R-0051
Amendment No. 3

UFC 3-420-01. Provide floor drains in mechanical rooms near each boiler, air handling unit, pumps, and water heater. Also provide floor drains at toilet groups, shower drying areas and within individual toilet rooms.

9.4.3 Maintenance Bay Water Piping System.

9.4.3.1 Provide water service to the maintenance work bays. Water system shall be supplied from the domestic water system and each drop shall be provided with hose bibbs with integral vacuum breakers. System shall be sized per International Plumbing Code and shall meet all of the requirements of the domestic water system. Provide a line size isolation valve upstream of each water drop. Insulate all cold water systems. Provide one outlet within each maintenance bay, total of two.

9.4.4 Natural Gas Piping System (Not Used).