



Housing Authority of the City of Pittsburgh

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July 10, 2019

Homewood North Sprinkler Freeze Protection IFB #600-21-19

ADDENDUM NO.1

This addendum issued July 10, 2019 becomes in its entirety a part of the Invitation for Bids IFB #300-21-19 as is fully set forth herein:

- Item 1:** Q: The closet on plan #3 in drawing E-003 will require a RTBC?
 A: **All RTBCs are located in the attic space as shown on the schematic drawing E-001. The function of the RTBCs is described on the drawings and in the specification. They are part of the heat trace system and are not associated with any unit space.**
 RTBC is a combination power-connection and overtemperature-protection device, and is mounted on a sprinkler branch line with bulb & capillary on the sprinkler sprig. Over temperature protection at one sprinkler head per heat-tracing circuit is a UL application requirement.
- Item 2:** Q: The laundry/ utilities closet on plan #3 in drawing E-006 will require a RTBC?
 A: **See answer to 1. Above.**
- Item 3:** Q: On drawing E-001 on top right its noted "Low Temperature SRL" on the same page bottom right its noted "Low Temperature CPR", please identify the details and clarify/ specs also state "CPR".
 A: **The correct type of cable is CPR – as shown in the model number and information on drawing E-008.**
- Item 4:** Q: Clarify the minimum distance between straps to secure the insulation material?
 A: **Pipe straps are to be installed per the manufacturer's instructions.**
- Item 5:** Q: On page E-001 the illustration at the bottom right is a bit confusing. Is it showing two separate conditions; one for plastic pipe and one for metal? The plastic pipe installation does not show insulation and jacket while the metal pipe does. Please clarify
 A: **All piping is plastic. The system shall include insulation and aluminum tape. The fiberglass tape shown is not required. The weather proof jacket is not required.**

Item 6: Q: On drawing E-008 the schedule identifies some plans as "A" and "B" but the drawings don't differentiate between "A" and "B".

A: "A" refers to units 1310 and 1312. "B" refers to units 1316 and 1314.

Ferris A = 1310/1312, B = 1316/1314

Heart 2 A = 1342/1340, B = 1346/13440

Item 7: Q: On drawing E-008 the column heading on the schedule is not clear, please clarify.

A: See attached table with clarified headings.

Item 8: Q: Section 16855 2.3.A states with "glass fiber, glass tape". Please clarify.

A: Paragraph should read: "Aluminum tape for plastic piping."

Item 9: Q: Section 16855 3.3.B.2.a. "roof and gutter". Please clarify.

A: Sentence should read: "b. After the heating cable has been installed on the freeze protection piping".

Item 10: Q: Section 16855 3.3.B.3. – can't be proprietary specifications, needs to say basic design or use "approved equal".

A: A. Specification is performance-based and describes all system requirements. References to specific manufacturers are for the project team's convenience only; any complete heat-tracing systems that are compliant with and listed to UL 515A "Electrical Resistance Trace Heating and Associated Controls for Use In Sprinkler and Standpipe Systems" are acceptable. Manufacturers named in the specification must demonstrate compliance with UL 515A for project approval.

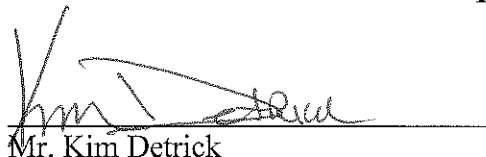
The paragraph should read: "The technician shall verify that heat trace controller/temperature sensors and system parameters are set properly for the Fire Sprinkler Freeze Protection System requirements".

Item 11: On the following drawings, the FACP panel being moved to the exterior of the building (building #15 units 1332, 1334 and 1340 Heart Court) replace the existing Model: E-FSC302-D with model Edward/Kidde RDW-FX5RD: E-005 and E-006.

Item 12: On drawing E-007 Detail #14, should be eliminated.

Item 13: The proposal due date, time, and location remain unchanged at July 15, 2019, at 2:00 PM, at the HACP Procurement Dept., 100 Ross St. 2nd Floor, Suite 200, Pittsburgh, PA 15219.

END OF ADDENDUM NO. 1



Mr. Kim Detrick

Procurement Director/Chief Contracting Officer

7-10-19

Date

Housing Authority of the City of Pittsburgh -- Homewood North Sprinklers

Segment ID	Pipe OD (nom. In)	Material	Pipe Length (ft)	Maintain Temp (°F)	Design Ambient Temp (°F)	Minimum Insulation Thickness (in)	Pipe Heat Loss (W/ft)	Heater Model No	Heater Power Output (W/ft)	Trace Ratio	Htr Length (Total) (ft)	Voltage(V)	Segment Steady Current (A)	Circuit Steady Current (A)	Circuit Startup Current (A)	Breaker Size	Controller Model	Control Sensor	Monitoring Sensor	Power Connection and Head Overtemp Protection
E-002 Mohler St	1.5	PVC	142	40	-25	1	2.7	CPR3-1CR	2.5	2	284	120	6	6	12.3	20A	ITC1	AS-BM	LN-10	RTBC
E-003 Nolan Ct - 2nd Flr	1.5	PVC	131	40	-25	1	2.7	CPR3-1CR	2.5	2	262	120	5.5	7.9	11.3	15A	ITC2	AS-BM	LN-10	RTBC
E-003 Nolan Ct - 3rd Flr	1.5	PVC	57	40	-25	1	2.7	CPR3-1CR	2.5	2	114	120	2.4	2.4	4.9	15A		AS-BM	LN-10	RTBC
E-004 Ferris Ct - A - 1st Flr	1.5	PVC	12	40	-25	1	2.7	CPR3-1CR	2.5	2	24	120	0.5	5.4	11	15A	ITC1	AS-BM	LN-10	RTBC
E-004 Ferris Ct - A - 2nd Flr	1.5	PVC	116	40	-25	1	2.7	CPR3-1CR	2.5	2	232	120	4.9		RTBC					
E-004 Ferris Ct - B - 1st Flr	1.5	PVC	8	40	-25	1	2.7	CPR3-1CR	2.5	2	16	120	0.3	5.5	11.4	15A	ITC1	AS-BM	LN-10	RTBC
E-004 Ferris Ct - B - 2nd Flr	1.5	PVC	124	40	-25	1	2.7	CPR3-1CR	2.5	2	248	120	5.2		RTBC					
E-005 Heart Ct - 1st Flr	1.5	PVC	9	40	-25	1	2.7	CPR3-1CR	2.5	2	18	120	0.4	5.7	11.7	15A	ITC1	AS-BM	LN-10	RTBC
E-005 Heart Ct - 2nd Flr	1.5	PVC	126	40	-25	1	2.7	CPR3-1CR	2.5	2	252	120	5.3		RTBC					
E-006 Heart Ct 2 - A - 1st Flr	1.5	PVC	8	40	-25	1	2.7	CPR3-1CR	2.5	2	16	120	0.3	6.7	13.7	20A	ITC2	AS-BM	LN-10	RTBC
E-006 Heart Ct 2 - A - 2nd Flr	1.5	PVC	150	40	-25	1	2.7	CPR3-1CR	2.5	2	300	120	6.4		RTBC					
E-006 Heart Ct 2 - B - 1st Flr	1.5	PVC	12	40	-25	1	2.7	CPR3-1CR	2.5	2	24	120	0.5	5.4	11	15A		AS-BM	LN-10	RTBC
E-006 Heart Ct 2 - B - 2nd Flr	1.5	PVC	115	40	-25	1	2.7	CPR3-1CR	2.5	2	230	120	4.9		RTBC					