LOUIS STOKES VA MEDICAL CENTER, CLEVELAND

STEAM TRAP MONITORING SYSTEM, INSULATION AND PIPING UPGRADES

STEAM TRAP TAG NO.	LOCATION	TRAP DRAWING REFERENCE NO. LOCATION	AREA	TRAP TYPE	ELEV. AFF	TRAP MODEL, MFG. & PIPE SIZE	P IN	EQUIPMENT SERVED	COND	REMARKS	NO WORK REQUIRED	① TRAP MONITOR	② TRAP REPLACE/ REPAIR	③ REMOVE TRAP & PIPING	④ REPAIR STEAM/ CONDENSATE LEAK	⑤ COLD STEAM TRAP	⑥ REPLACE COPPER PIPE & UNIONS	⑦ SERVICE VACUUM BREAKERS	⑧ STRAINER	⑨ REPIPE ELEVATED CONDENSATE PIPE	⑩ RELOCATE TRAPS TO OUTSIDE AHUS	⑪ REMOVABLE INSULATION JACKETS	⑫ HARD PIPE INSULATION	⑬ MISC.
336	STAIRWELL #5 MAIN PENTHOUSE HUMIDIFIER MANIFOLD INSIDE AHU-17 INSIDE AHU.	3-PH-2	2	O	4	3/4" PROFICIENT TECHNOLOGIES TGGA58	0	HUMIDIFIER DRIP MANIFOLD	CO	STEAM TRAP IS COLD OUT OF SERVICE, POSSIBLY NOT IN USE. IF REQUIRED, REPLACE WITH 3/4" SPIRAX B1H-125 OR 3/4" ARMSTRONG #811-125 INVERTED BUCKET STEAM TRAP. STEAM TRAP INSTALLED INSIDE AC17, SHOULD RELOCATE OUTSIDE UNIT FOR EASE OF MAINT. INSPECTED 7/31/12.			X			X					X	X		
337	STAIRWELL #5 MAIN PENTHOUSE HUMIDIFIER MANIFOLD INSIDE AHU-17.	3-PH-2	2	D	8	3/4" PROFICIENT TECHNOLOGIES TGGA58	0	HUMIDIFIER DRIP MANIFOLD	CO	STEAM TRAP IS COLD OUT OF SERVICE, POSSIBLY NOT IN USE. IF REQUIRED, REPLACE WITH 3/4" SPIRAX B1H-125 OR 3/4" ARMSTRONG #811-125 INVERTED BUCKET STEAM TRAP. STEAM TRAP INSTALLED INSIDE AC17, SHOULD RELOCATE OUTSIDE UNIT FOR EASE OF MAINT. INSPECTED 7/31/12.			X			X					X	X		
337A	STAIRWELL #5 MAIN PENTHOUSE HUMIDIFIER MANIFOLD INSIDE AHU-17.	3-PH-2	2	0	7	3/4" PROFICIENT TECHNOLOGIES TGGA58	0	HUMIDIFIER DRIP MANIFOLD	CO	STEAM TRAP IS COLD OUT OF SERVICE, POSSIBLY NOT USED. IF REQUIRED, REPLACE WITH 3/4" SPIRAX B1H-125 OR 3/4" ARMSTRONG #811-125 INVERTED BUCKET STEAM TRAP. STEAM TRAP INSTALLED INSIDE AC17, SHOULD RELOCATE OUTSIDE UNIT FOR EASE OF MAINT. NEW TAG. INSPECTED 7/31/12.			X			X					X	X		
338	STAIRWELL #5 MAIN PENTHOUSE STEAM COIL SUPPLY DRIP INSIDE AC17.	3-PH-2	2	B	8	3/4" ARMSTRONG 880	10	STEAM MAIN DRIP	OK	STEAM TRAP COLD OUT OF SERVICE. WHEN WORN, REPAIR WITH ARMSTRONG #880 PCA REPAIR KIT, 1/8" ORIFICE AND BODY GASKET. STEAM TRAP INSTALLED INSIDE AC17, SHOULD RELOCATE OUTSIDE UNIT FOR EASE OF MAINT. INSPECTED 7/31/12.											X	X		
338A	STAIRWELL #5 MAIN PENTHOUSE STEAM COIL SUPPLY DRIP INSIDE AC17.	3-PH-2	2	B	8	3/4" ARMSTRONG 880	10	STEAM MAIN DRIP	OK	STEAM TRAP IS OK, WHEN WORN, REPAIR WITH ARMSTRONG #880 PCA REPAIR KIT, 1/8" ORIFICE AND BODY GASKET. STEAM TRAP INSTALLED INSIDE AC17, SHOULD RELOCATE OUTSIDE UNIT FOR EASE OF MAINT. INSPECTED 7/31/12.											X	X		
339	STAIRWELL #5 MAIN PENTHOUSE STEAM SUPPLY DRIP AC-18N	3-PH-2	2	B	20	3/4" SPIRAX B1H-125	10	STEAM MAIN DRIP	CP	STEAM TRAP IS COLD, SHOULD BE HOT (NEW TRAP), CHECK FOR CONDENSATE LINE RESTRICTIONS. IF REQUIRED, REPAIR STEAM TRAP WITH SPIRAX #80004 REPAIR KIT. INSPECTED 7/27/12.			X			X						X		
340	STAIRWELL #5 MAIN PENTHOUSE STEAM SUPPLY DRIP AC-18N	3-PH-2	2	B	20	3/4" SPIRAX B1H-125	10	STEAM MAIN DRIP	LK	(NEW TRAP) REPAIR DEFECTIVE STEAM TRAP WITH SPIRAX #80004 REPAIR KIT. INSPECTED 7/31/12.			X										
341	STAIRWELL #5 MAIN PENTHOUSE L.P. DRIP ABOVE COMPRESSORS	3-PH-2	2	B	8	3/4" SPIRAX B1H-125	10	STEAM MAIN DRIP	OK	STEAM TRAP IS OK. (NEW TRAP) WHEN WORN, REPAIR STEAM TRAP WITH SPIRAX #80004 REPAIR KIT. INSPECTED 7/27/12.												X		
342	STAIRWELL #5 MAIN PENTHOUSE UNIT HEATER ABOVE PRV STATION	3-PH-2	2	F	10	3/4" SPIRAX FT-30	10	UNIT HEATER	OK	STEAM TRAP IS OK. WHEN WORN, REPAIR WITH TUNSTALL 1FP-SA-30 FACE PLATE REPAIR KIT. SHOULD HAVE 3/4" Y-STRAINER TO PROTECT STEAM TRAP. INSPECTED 7/27/12.									X					
343	STAIRWELL #5 MAIN PENTHOUSE H.P. TAKE OFF BY AC CABINETS - HALLWAY	3-PH-2	2	D	10	3/8" SPIRAX TD-42	115	STEAM MAIN DRIP	CP	TRAP IS COLD, SHOULD BE HOT. REPLACE WITH 1/2" SPIRAX B1H-125 OR 1/2" ARMSTRONG #811-125 INVERTED BUCKET STEAM TRAP, WILL NEED TO BE BUSHED DOWN TO 3/8". LINE MAY BE OUT OF SERVICE OR CHECK FOR CONDENSATE LINE RESTRICTIONS, INSPECT. HAS COPPER CONDENSATE DISCHARGE LINE. INSPECTED 7/27/12.			X			X	X							
344	STAIRWELL #5 MAIN PENTHOUSE AC-17 NORTH L.P. SUPPLY DRIP	3-PH-2	2	B	19	3/4" SPIRAX B1H-125	10	STEAM MAIN DRIP	OK	STEAM TRAP IS OK. (NEW TRAP) WHEN WORN, REPAIR STEAM TRAP WITH SPIRAX #80004 REPAIR KIT. INSPECTED 7/27/12.	X													
345	STAIRWELL #5 MAIN PENTHOUSE AC-17 SOUTH L.P. SUPPLY DRIP (ABOVE TRAP #175)	3-PH-2	2	B	19	3/4" SPIRAX B1H-125	10	STEAM MAIN DRIP	OK	STEAM TRAP IS OK, (NEW TRAP) WHEN WORN, REPAIR STEAM TRAP WITH SPIRAX #80004 REPAIR KIT. HAS 3/8" SPIRAX TD-52 OFF OF STRAINER BLOW DOWN (?). ABOVE STEAM TRAPS #175 & #176. INSPECTED 7/27/12.	X													
346	STAIRWELL #5 MAIN PENTHOUSE NORTH CORNER UNIT HEATER	3-PH-2	2	B	22	3/4" SPIRAX B1H-15	10	UNIT HEATER	CO	STEAM TRAP IS COLD OUT OF SERVICE (NEW TRAP) . IF REQUIRED, REPAIR STEAM TRAP WITH SPIRAX #80001 REPAIR KIT. CHECK VALVE IS IN REVERSE AT OUTLET, PLUGGED, USED AS VACUUM BREAKER, SHOULD REPLACE WITH TUNSTALL VB-3/4 STEAM SERVICE VACUUM BREAKER. INSPECTED 7/27/12.			X					X						
346A	STAIRWELL #5 MAIN PENTHOUSE ABOVE ELECTRICAL CAGE BY ENTRANCE	3-PH-2	2	O	12	3/4" PROFICIENT TECHNOLOGIES TGGA58	10	STEAM MAIN DRIP	OK	STEAM TRAP IS OK, WHEN WORN, REPLACE WITH NEW 3/4" SPIRAX B1H-125 OR 3/4" ARMSTRONG #811-125 INVERTED BUCKET STEAM TRAP. NEW TAG. INSPECTED 7/24/12.	X													
347	1ST FLOOR SPD STERILIZER #1 JACKET TRAP	3-1-4	3 AND 4	T	2	1/2" SPIRAX TA-125A	70	STERILIZER	CO	STEAM TRAP COLD OUT OF SERVICE. IF REQUIRED, REPAIR STEAM TRAP WITH TUNSTALL #TCSA-2222 STEAM TRAP CAPSULE REPAIR KIT. INSPECTED 7/31/12.						X								
348	1ST FLOOR SPD STERILIZER #1 CHAMBER TRAP	3-1-4	3 AND 4	T	2	1/2" SPIRAX TA-125A	70	STERILIZER	BT	REPAIR DEFECTIVE (NEW) STEAM TRAP WITH TUNSTALL #TCSA-2222 STEAM TRAP CAPSULE KIT. INSPECTED 7/31/12.			X											
349	1ST FLOOR SPD STERILIZER #2 JACKET TRAP	3-1-4	3 AND 4	T	2	1/2" SPIRAX TA-125A	70	STERILIZER	CP	NEW STEAM TRAP, STILL COLD-PLUGGED, INSPECT FOR CONDENSATE LINE RESTRICTIONS. IF REQUIRED, REPAIR STEAM TRAP WITH TUNSTALL #TCSA-2222 STEAM TRAP CAPSULE REPAIR KIT. INSPECTED 7/31/12.			X			X								
350	1ST FLOOR SPD STERILIZER #2 CHAMBER TRAP	3-1-4	3 AND 4	T	2	1/2" SPIRAX TA-125A	70	STERILIZER	OK	STEAM TRAP IS OK, WHEN WORN, REPAIR STEAM TRAP WITH TUNSTALL #TCSA-2222 STEAM TRAP CAPSULE REPAIR KIT. INSPECTED 7/31/12.														
352	1ST FLOOR SPD STERILIZER #3 CHAMBER TRAP	3-1-4	3 AND 4	-	-	NO TRAP	70	STERILIZER	NT	NEW STERILIZER, DOES NOT HAVE STEAM TRAP, UTILIZES CONDENSING BRAZED PLATE HEAT EXCHANGER, INSPECTED 7/31/12.	X													
353	1ST FLOOR SPD DRIP ABOVE WASHER #3 CEILING LOWER SS ACCESS PANEL ABOVE WASHER	3-1-4	3 AND 4	B	9	3/4" SPIRAX B1H-15	70	STEAM MAIN DRIP	OK	STEAM TRAP IS OK, (NEW TRAP) WHEN WORN, REPAIR STEAM TRAP WITH SPIRAX #80004 REPAIR KIT. STEAM TRAP TRAP IS BEHIND CEILING LOWER SS ACCESS PANEL ABOVE WASHER. INSPECTED 7/31/12.		X												
354	1ST FLOO MECH. ROOM 1B-309 H.P. DRIP	3-1-4	4	B	10	3/4" SPIRAX B1-H-125	115	STEAM MAIN DRIP	OK	STEAM TRAP IS OK. (NEW TRAP) WHEN WORN, REPAIR STEAM TRAP WITH SPIRAX #80004 REPAIR KIT. INSPECTED 8/1/12.		X												
355	1ST FLOOR MECH. ROOM 1B-309 L.P. DRIP (RISER)	3-1-4	4	F	5	3/4" DUNHAM-BUSH 40-215A	10	STEAM MAIN DRIP	OK/LK	STEAM TRAP IS OK. WHEN WORN, REPAIR WITH TUNSTALL #1FP-DB-15 FACE PLATE REPAIR KIT. 3" STEAM FLANGE LEAKS STEAM ABOVE STEAM TRAP, REPAIR LEAK. 3 FT OF 3" BARE 10 PSIG STEAM PIPE PLUS (1) 3" WELDED 90 DEGREE ELBOW, NEEDS INSULATION. INSPECTED 8/1/12.					X							X	X	
356	1ST FLOOR MECH. ROOM 1B-309 POSSIBLE STEAM COIL	3-1-4	4	F	7	1 1/2" SPIRAX FT-15	10M	STEAM COIL	OK	STEAM TRAP IS OK. WHEN WORN, REPAIR WITH TUNSTALL #4RK-SA-15 REPAIR KIT. INSPECTED 8/1/12.	X													
357	1ST FLOOR MECH. ROOM 1B-309 L.P. DRIP	3-1-4	4	B	12	3/4" ARMSTRONG 811	10	STEAM MAIN DRIP	OK	STEAM TRAP IS OK. WHEN WORN, REPAIR STEAM TRAP WITH ARMSTRONG #811 PCA REPAIR KIT, 1/8" ORIFICE AND BODY GASKET. INSPECTED 8/1/12.												X		
358	1ST FLOOR MECH. ROOM 1B-309 POSSIBLE STEAM COIL	3-1-4	4	F	7	1 1/2" SPIRAX FT-15	10M	STEAM COIL	OK	STEAM TRAP IS OK. WHEN WORN, REPAIR WITH TUNSTALL #4RK-SA-15 REPAIR KIT. INSPECTED 8/1/12.												X		
359	1ST FLOOR EQUIP. ROOM S113 SF4 AC-1 STEAM SUPPLY DRIP	3-1-7	7	B	8	3/4" SPIRAX B1H-15	10	STEAM MAIN DRIP	OK	STEAM TRAP IS OK, (NEW TRAP) WHEN WORN, REPAIR STEAM TRAP WITH SPIRAX #80004 REPAIR KIT. HAS COPPER CONDENSATE PIPE DISCHARGE & DIE-ELECTRIC UNION. INSPECTED 7/26/12.							X							
360	1ST FLOOR EQUIP. ROOM S113 LEFT HUMIDIFIER MANIFOLD INSIDE SF-1	3-1-7	7	D	2	3/4" PROFICIENT TECHNOLOGIES TGEBA5	10	HUMIDIFIER MANIFOLD DRIP	CO	STEAM TRAP IS COLD OUT OF SERVICE, WHEN WORN, REPLACE WITH 3/4" SPIRAX B1H-125 OR 3/4" ARMSTRONG #811-125 INVERTED BUCKET STEAM TRAP. HAS COPPER DISCHARGE PIPE WITH DIE-ELECTRIC UNION. STEAM TRAP IS INSIDE SF-1, SHOULD RE-LOCATE TRAP OUTSIDE UNIT. INSPECTED 7/26/12.			X			X	X				X			
361	1ST FLOOR EQUIP. ROOM S113 1ST FLOOR SF-1 HUMIDIFIER STEAM SUPPLY DRIP	3-1-7	7	D	8	3/4" PROFICIENT TECHNOLOGIES TGEBA8	0	STEAM MAIN DRIP	CO	STEAM TRAP IS COLD OUT OF SERVICE, NOT USED. IF REQUIRED, REPLACE WITH 3/4" SPIRAX B1H-125 OR 3/4" ARMSTRONG #811-125 INVERTED BUCKET STEAM TRAP. INSPECTED 7/26/12.			X			X								
362	1ST FLOOR EQUIP. ROOM S113 SF-1 HUMIDIFIER MANIFOLD DRIP	3-1-7	7	D	2	3/4" PROFICIENT TECHNOLOGIES TGEBA8	0	HUMIDIFIER MANIFOLD DRIP	CO	STEAM TRAP IS COLD OUT OF SERVICE, NOT USED. IF REQUIRED, REPLACE WITH 3/4" SPIRAX B1H-125 OR 3/4" ARMSTRONG #811-125 INVERTED BUCKET STEAM TRAP. INSPECTED 7/26/12.			X			X								
363	1ST FLOOR EQUIP. ROOM S113 HUMIDIFIER SF-1	3-1-7	7	D	1	3/4" PROFICIENT TECHNOLOGIES TGEBA8	0	HUMIDIFIER DRIP	CO	STEAM TRAP IS COLD OUT OF SERVICE, NOT USED. IF REQUIRED, REPLACE WITH 3/4" SPIRAX B1H-125 OR 3/4" ARMSTRONG #811-125 INVERTED BUCKET STEAM TRAP. INSPECTED 7/26/12.			X			X								
364	1ST FLOOR EQUIP. ROOM S113 AC-1 RIGHT HUMIDIFIER MANIFOLD INSIDE SF-1	3-1-7	7	D	1	3/4" PROFICIENT TECHNOLOGIES TGEBA8	10	HUMIDIFIER MANIFOLD DRIP	CO	STEAM TRAP IS COLD OUT OF SERVICE, NOT USED. IF REQUIRED, REPLACE WITH 3/4" SPIRAX B1H-125 OR 3/4" ARMSTRONG #811-125 INVERTED BUCKET STEAM TRAP. STEAM TRAP IS INSIDE SF-1, SHOULD RE-LOCATE TRAP OUTSIDE UNIT. INSPECTED 7/26/12.			X			X					X			
364A	1ST FLOOR RM S113 INSIDE SF-4 STEAM COIL	3-1-7	7	F	2	1.25" ARMSTRONG 15B5	15M	STEAM COIL	CO	STEAM TRAP COLD OUT OF SERVICE, IF NEEDED, REPAIR STEAM TRAP WITH TUNSTALL 3RK-15-B5 REPAIR KIT. STEAM TRAP IS INSIDE SF-1, SHOULD RE-LOCATE TRAP OUTSIDE UNIT. NEW TAG. INSPECTED 7/26/12.			X			X					X			
366	BASEMENT CARPENTER SHOP BY (ENGINEERING) ABOVE DOOR	-	1	B	12	3/4" SPIRAX B1H-15	10	STEAM MAIN DRIP	OK	STEAM TRAP IS OK, (NEW TRAP) WHEN WORN, REPAIR STEAM TRAP WITH SPIRAX #80004 REPAIR KIT. HAS COPPER CONDENSATE PIPE DISCHARGE & DIE-ELECTRIC UNION. 6 FT. OF 2 1/2" BARE 10 PSIG STEAM PIPE NEEDS INSULATION. INSPECTED 8/8/12.							X					X	X	
368	BASEMENT ENTRANCE MACHINE SHOP STORAGE BY SUB-	-	1	F	9	3/4" SPIRAX FT-15	10	STEAM MAIN DRIP	CO	STEAM TRAP IS COLD OUT OF SERVICE, NOT USED. IF REQUIRED, REPAIR WITH TUNSTALL #1FP-SA-15 FACE PLATE REPAIR KIT. INSPECTED 8/8/12.			X			X								
369	BASEMENT ENGINEERING SUB BASEMENT UNIT HEATER	-	1	B	7	3/4" ARMSTRONG 880	10	UNIT HEATER	OK	STEAM TRAP IS OK. WHEN WORN, REPAIR STEAM TRAP WITH ARMSTRONG #880 PCA REPAIR KIT, 1/8" ORIFICE AND BODY GASKET. INSPECTED 8/8/12.	X													
370	BASEMENT NEXT TO SHELL SPACE LABORATORY #K-16 EQUIPMENT ROOM	3-B-1	1	D	7	1" PROFICIENT TECHNOLOGIES QGETG6	10M	STEAM COIL	CO	STEAM TRAP IS COLD OUT OF SERVICE, NOT USED. IF REQUIRED, REPLACE WITH 3/4" SPIRAX B1H-125 OR 3/4" ARMSTRONG #811-125 INVERTED BUCKET STEAM TRAP. INSPECTED 8/1/12.			X			X								

COLUMN REFERENCE NOTES:

① FURNISH AND INSTALL AN ACOUSTIC WIRELESS STEAM TRAP MONITORING SENSOR PER SPECIFICATIONS, SECTION 232213.

② REPLACE OR REPAIR STEAM TRAP IN ACCORDANCE WITH DESCRIPTION IN REMARKS COLUMN.

③ REMOVE STEAM TRAP AND ALL ABANDONED CONDENSATE PIPING TO A POINT WHERE THE CONDENSATE LINE IS LIVE. CAP.

④ REPAIR STEAM/CONDENSATE LEAK IN ACCORCANCE WITH DESCRIPTION IN REMARKS COLUMN.

⑤ COLD STEAM TRAPS: REPAIR THE VALVES, CONTROLS ETC. AS DESCRIBED IN THE REMARKS COLUMN. INVESTIGATE AND DETERMINE THE REASON FOR ANY OTHER NON-FUNCTIONING STEAM TRAP THAT WERE FOUND TO BE COLD. FIX ALL ITEMS FOUND TO BE NEEDING REPAIR. (FOR PURPOSES OF THIS BID ASSUME THE CONTROL VALVES REQUIRE REPAIR OR REPLACEMENT.)

⑥ REPLACE THE EXISTING COPPER PIPING WITH NEW STEEL PIPE AND REPLACE THE EXISTING DIELECTRIC UNIONS AND NIPPLES WITH EQUIVALENT SIZES. SEE THE REMARKS COLUMN FOR REQUIRED WORK. SEE THE SPECIFICATIONS FOR THE REQUIRED MATERIALS AND FITTINGS. INSULATE ALL NEW & EXISTING BARE PIPE.

⑦ FURNISH AND INSTALL NEW STEAM VACUUM BREAKERS IN ACCORDANCE WITH THE REMARKS COLUMN.

⑧ FURNISH AND INSTALL NEW Y-STRAINERS BETWEEN SHUT-OFF VALVE AND INLET TO STEAM TRAP.

⑨ REPIPE ELEVATED CONDENSATE PIPING AT LOCATIONS NOTED. SEE DETAILS ON DRAWINGS { 3-PH-4 | 4-02 | 4-03 | 4-04 | 4-05 }

⑩ DISCONNECT AND REMOVE EXISTING CONDENSATE LINES DISCHARGED INTO DRAIN. FURNISH AND INSTALL NEW CONDENSATE LIFT PUMPS AND CONNECT TO NEARBY CONDENSATE DRAIN LINE. INSULATE ALL BARE STEAM & CONDENSATE PIPING WITHIN AIR HANDLING UNIT.

⑪ FURNISH AND INSTALL REMOVABLE INSULATION JACKETS AT LOCATIONS TAGGED AND NOTED ON THE SCHEDULE ON DRAWINGS { 2-13| 2-14 }.

⑫ FURNISH AND INSTALL PIPE INSULATION AS DESCRIBED IN SCHEDULE ON DRAWINGS { 2-13| 2-14 }.

⑬ MISCELLANEOUS

Revisions:	Date
FINAL CD-SUBMISSION	12-21-12
95% SUBMISSION	11-30-12
65% SUBMISSION	11-16-12

CONSULTANTS:

FREDRICK, FREDRICK & HELLER ENGINEERS, INC.
672 EAST ROYALTON ROAD
BROADVIEW HTS., OHIO 44147
TEL. (440) 546-0696
FAX: (440) 546-9699

STATE OF OHIO BRIAN M. WIDOWSKI 66625 PROFESSIONAL ENGINEER

ARCHITECT:

Approved: Project Director

Drawing Title: STEAM TRAP AND WORK SCHEDULE TRAPS 336-370

Project Title: **STEAM TRAP MONITORING, INSULATION AND PIPING UPGRADES**

Location: **VAMC - WADE PARK**

Date: 12-21-12 | Checked: WFW | Drawn: JWF

Project Number: 541-12-115

Building Number: 1

Drawing Number: 2-09

Office of Facilities Management

Department of Veterans Affairs

VA FORM 08-6231, OCT 1978