

Home Office
170 Kittyhawk Ave.
P.O. Box 1390
Auburn, ME 04210-1390
207-784-1507

EASTERN FIRE

FIRE PROTECTION CONTRACTORS AND ENGINEERS

www.easternfiregroup.com

Satellite Office
408 Harlow St.
Bangor, ME 04401
207-942-8014

May 21, 2019

Mr. Tim Hebert

Hebert Construction
9 Gould St.
Lewiston, ME 04240

**RE: Parris Terrace Fire Sprinkler System
COMPLIANCE & WARRANTY LETTER**

To Whom It May Concern,

This letter certifies that the new NFPA 13 wet & dry systems located at **60 Parris Street Portland, ME** was designed, installed and tested in accordance with NFPA 13, state and local codes.

Eastern Fire warranties that the new fire sprinkler systems are free from defects in materials and workmanship for a period of one year beginning on **May 24, 2019**.

Signed:



Paul A. Tardif- VP/Div. Mgr

Date:

5/21/19

CONTRACTOR'S MATERIAL & TEST CERTIFICATE FOR ABOVEGROUND PIPING

5816

PROCEDURE

Upon completion of work, inspection and tests shall be made by the contractor's representative and witnessed by an owner's representative. All defects shall be corrected and system left in service before contractor's personnel finally leave the job.

A certificate shall be filled out and signed by both representatives. Copies shall be prepared for approving authorities, owners and contractor. It is understood the owner's representative's signature in no way prejudices any claim against contractor for faulty material, poor workmanship, or failure to comply with approving authority's requirements or local ordinances.

PROPERTY NAME: Parris Terrace DATE: 1/18/19

PROPERTY ADDRESS: 60 Parris St. Portland, ME

ACCEPTED BY APPROVING AUTHORITY(S) NAMES: State Fire Marshal

ADDRESS: 43 Commerce Dr. Augusta, ME 04330

INSTALLATION CONFORMS TO ACCEPTED PLANS. YES NO

EQUIPMENT USED IS APPROVED. YES NO

IF NO, EXPLAIN DEVIATIONS

HAS PERSON IN CHARGE OF FIRE EQUIPMENT BEEN INSTRUCTED AS TO LOCATION OF CONTROL VALVES AND CARE AND MAINTENANCE OF THIS NEW EQUIPMENT? YES NO

IF NO, EXPLAIN

HAVE COPIES OF APPROPRIATE INSTRUCTIONS AND CARE AND MAINTENANCE CHARTS AND NFPA 13A BEEN LEFT ON PREMISES? YES NO

IF NO, EXPLAIN

LOCATION OF SYSTEM: SUPPLIES BLDGS. 1st, 2nd, 3rd, 4th

SPRINKLERS	MAKE	MODEL	YEAR OF MANUFACTURE	ORIFICE SIZE	QUANTITY	TEMPERATURE RATING
	Reliast FFR56	RA1414	2014	1/2	13	200
	" " KFR-CCS	RA4454	2019	1/2	27	212
	" " FIRE545	R3516	2014	1/2	108	155
	" " F3QR56	RA5734	2014	1/2	21	260
	" " QREC	KA2865	2014	1/2	27	200

PIPE CONFORMS TO NFPA 13 STANDARD YES NO

FITTINGS CONFORM TO NFPA 13 STANDARD YES NO

IF NO, EXPLAIN

ALARM VALVE OR FLOW INDICATOR	ALARM DEVICE			MAXIMUM TIME TO OPERATE THROUGH TEST PIPE	
	TYPE	MAKE	MODEL	MIN.	SEC.
	Flow Switch	Potter	VSR		30

DRY PIPE OPERATING TEST	DRY VALVE			Q.O.D.			ALARM OPERATED PROPERLY		
	MAKE	MODEL	SERIAL NO.	MAKE	MODEL	SERIAL NO.	YES	NO	
	TIME TO TRIP THRU TEST PIPE		WATER PRESSURE	AIR PRESSURE	TRIP POINT AIR PRESSURE	TIME WATER REACHED TEST OUTLET			
	MIN.	SEC.	PSI	PSI	PSI	MIN.	SEC.	YES	NO
Without Q.O.D.									
With Q.O.D.									
IF NO, EXPLAIN									

DELUGE & PREACTION VALVES

OPERATION PNEUMATIC ELECTRIC HYDRAULIC

PIPING SUPERVISED YES NO DETECTING MEDIA SUPERVISED YES NO

DOES VALVE OPERATE FROM THE MANUAL TRIP AND/OR REMOTE CONTROL STATIONS YES NO

IS THERE AN ACCESSIBLE FACILITY IN EACH CIRCUIT FOR TESTING YES NO IF NO, EXPLAIN

MAKE	MODEL	DOES EACH CIRCUIT OPERATE SUPERVISION LOSS ALARM		DOES EACH CIRCUIT OPERATE VALVE RELEASE		MAXIMUM TIME TO OPERATE RELEASE	
		YES	NO	YES	NO	MIN.	SEC.

TEST DESCRIPTION

HYDROSTATIC: Hydrostatic tests shall be made at not less than 200 psi (13.6 bars) for two hours or 50 psi (3.4 bars) above static pressure in excess of 150 psi (10.2 bars) for two hours. Differential dry-pipe valve clappers shall be left open during test to prevent damage. All aboveground piping leakage shall be stopped.

FLUSHING: Flow the required rate until water is clear as indicated by no collection of foreign material in burlap bags at outlets such as hydrants and blow-offs. Flush at flows not less than 400 GPM (1514 L/min) for 4-inch pipe, 600 GPM (2271 L/min) for 5-inch pipe, 750 GPM (2839 L/min) for 6-inch pipe, 1000 GPM (3785 L/min) for 8-inch pipe, 1500 GPM (5678 L/min) for 10-inch pipe and 2000 GPM (7570 L/min) for 12-inch pipe. When supply cannot produce stipulated flow rates, obtain maximum available.

PNEUMATIC: Establish 40 psi (2.7 bars) air pressure and measure drop which shall not exceed 1-1/2 psi (0.1 bars) in 24 hours. Test pressure tanks at normal water level and air pressure and measure air pressure drop which shall not exceed 1-1/2 psi (0.1 bars) in 24 hours.

TESTS

ALL PIPING HYDROSTATICALLY TESTED AT 200 PSI FOR 2 HRS. IF NO, STATE REASON

DRY PIPING PNEUMATICALLY TESTED YES NO

EQUIPMENT OPERATES PROPERLY YES NO

DRAIN TEST READING OF GAGE LOCATED NEAR WATER SUPPLY TEST PIPE: RESIDUAL PRESSURE WITH VALVE IN TEST PIPE OPEN WIDE

STATIC PRESSURE: 100 PSI 90 PSI

Underground mains and lead in connections to system risers flushed before connection made to sprinkler piping.

VERIFIED BY COPY OF THE U FORM NO. 85B YES NO OTHER EXPLAIN

FLUSHED BY INSTALLER OF UNDER-GROUND SPRINKLER PIPING YES NO Installed, Tested, Flushed By others

BLANK TESTING GASKETS

NUMBER USED	LOCATIONS	NUMBER REMOVED
<u>0</u>		

WELDING

WELDED PIPING YES NO

IF YES ...

DO YOU CERTIFY AS THE SPRINKLER CONTRACTOR THAT WELDING PROCEDURES COMPLY WITH THE REQUIREMENTS OF AT LEAST AWS D10.9, LEVEL AR-3 YES NO

DO YOU CERTIFY THAT THE WELDING WAS PERFORMED BY WELDERS QUALIFIED IN COMPLIANCE WITH THE REQUIREMENTS OF AT LEAST AWS D10.9, LEVEL AR-3 YES NO

DO YOU CERTIFY THAT WELDING WAS CARRIED OUT IN COMPLIANCE WITH A DOCUMENTED QUALITY CONTROL PROCEDURE TO INSURE THAT ALL DISCS ARE RETRIEVED, THAT OPENINGS IN PIPING ARE SMOOTH, THAT SLAG AND OTHER WELDING RESIDUE ARE REMOVED, AND THAT THE INTERNAL DIAMETERS OF PIPING ARE NOT PENETRATED YES NO

HYDRAULIC DATA NAMEPLATE

NAMEPLATE PROVIDED YES NO IF NO, EXPLAIN

REMARKS

DATE LEFT IN SERVICE WITH ALL CONTROL VALVES OPEN: 5/30/19

SIGNATURES

NAME OF SPRINKLER CONTRACTOR: Eastern Fire

TESTS WITNESSED BY

FOR PROPERTY OWNER (SIGNED): <u>[Signature]</u>	TITLE: <u>Job Super</u>	DATE: <u>5/30/19</u>
FOR SPRINKLER CONTRACTOR (SIGNED): <u>[Signature]</u>	TITLE: <u>Filler</u>	DATE: <u>4/30/19</u>

ADDITIONAL EXPLANATION AND NOTES

Partesting

- * 1st 4200 Fls tested on 10/22/18
- * 3rd Fl tested on 11/12/19
- * 4th Fl tested on 12/19/19

SPRINKLERS

MAKE	MODEL	YEAR OF MANUFACTURE	ORIFICE SIZE	QUANTITY	TEMPERATURE RATING
Reliable	RES44	2019	1/2	4	175

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PROPERTY NAME Parris Terrace DATE 1/18/19

PROPERTY ADDRESS 60 Parris St. Portland, ME

PLANS

ACCEPTED BY APPROVING AUTHORITY(S) NAMES
State Fire Marshal

ADDRESS
43 Commerce Dr. Augusta, ME 04330

INSTALLATION CONFORMS TO ACCEPTED PLANS YES NO
EQUIPMENT USED IS APPROVED YES NO
IF NO, EXPLAIN DEVIATIONS

INSTRUCTIONS

HAS PERSON IN CHARGE OF FIRE EQUIPMENT BEEN INSTRUCTED AS TO LOCATION OF CONTROL VALVES AND CARE AND MAINTENANCE OF THIS NEW EQUIPMENT YES NO
IF NO, EXPLAIN

HAVE COPIES OF APPROPRIATE INSTRUCTIONS AND CARE AND MAINTENANCE CHARTS AND NFPA 13A BEEN LEFT ON PREMISES YES NO
IF NO, EXPLAIN

LOCATION OF SYSTEM

SUPPLIES BLDGS. Parking Garage, Dry system

SPRINKLERS

MAKE	MODEL	YEAR OF MANUFACTURE	ORIFICE SIZE	QUANTITY	TEMPERATURE RATING
<u>Reliable</u>	<u>R5714</u>	<u>2019</u>	<u>1/2</u>	<u>20</u>	<u>200</u>

PIPE AND FITTINGS

PIPE CONFORMS TO NFPA 13 STANDARD YES NO
FITTINGS CONFORM TO NFPA 13 STANDARD YES NO
IF NO, EXPLAIN

ALARM VALVE OR FLOW INDICATOR

ALARM DEVICE			MAXIMUM TIME TO OPERATE THROUGH TEST PIPE	
TYPE	MAKE	MODEL	MIN.	SEC.
<u>Pressure Switch</u>	<u>Potter</u>	<u>PS-10</u>		<u>15</u>

DRY PIPE OPERATING TEST

	DRY VALVE			Q.O.D.				
	MAKE	MODEL	SERIAL NO.	MAKE	MODEL	SERIAL NO.		
Without Q.O.D.	TIME TO TRIP THRU TEST PIPE		WATER PRESSURE	AIR PRESSURE	TRIP POINT AIR PRESSURE	TIME WATER REACHED TEST OUTLET		ALARM OPERATED PROPERLY
	MIN.	SEC.	PSI	PSI	PSI	MIN.	SEC.	YES NO
		<u>10</u>	<u>100</u>	<u>36</u>	<u>15</u>		<u>19</u>	<u>X</u>
With Q.O.D.								

IF NO, EXPLAIN

DELUGE & PREACTION VALVES	OPERATION <input type="checkbox"/> PNEUMATIC <input type="checkbox"/> ELECTRIC <input type="checkbox"/> HYDRAULIC								
	PIPING SUPERVISED <input type="checkbox"/> YES <input type="checkbox"/> NO				DETECTING MEDIA SUPERVISED <input type="checkbox"/> YES <input type="checkbox"/> NO				
	DOES VALVE OPERATE FROM THE MANUAL TRIP AND/OR REMOTE CONTROL STATIONS <input type="checkbox"/> YES <input type="checkbox"/> NO								
	IS THERE AN ACCESSIBLE FACILITY IN EACH CIRCUIT FOR TESTING <input type="checkbox"/> YES <input type="checkbox"/> NO								
	MAKE		MODEL		DOES EACH CIRCUIT OPERATE SUPERVISION LOSS ALARM		DOES EACH CIRCUIT OPERATE VALVE RELEASE		MAXIMUM TIME TO OPERATE RELEASE
				YES NO		YES NO		MIN. SEC.	

TEST DESCRIPTION
HYDROSTATIC: Hydrostatic tests shall be made at not less than 200 psi (13.6 bars) for two hours or 50 psi (3.4 bars) above static pressure in excess of 150 psi (10.2 bars) for two hours. Differential dry-pipe valve clappers shall be left open during test to prevent damage. All aboveground piping leakage shall be stopped.
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TESTS	ALL PIPING HYDROSTATICALLY TESTED AT <u>200</u> PSI FOR <u>2</u> HRS. IF NO, STATE REASON	
	DRY PIPING PNEUMATICALLY TESTED <input type="checkbox"/> YES <input type="checkbox"/> NO	
	EQUIPMENT OPERATES PROPERLY <input type="checkbox"/> YES <input type="checkbox"/> NO	
	DRAIN TEST	READING OF GAGE LOCATED NEAR WATER SUPPLY TEST PIPE: STATIC PRESSURE: <u>100</u> PSI
	RESIDUAL PRESSURE WITH VALVE IN TEST PIPE OPEN WIDE: <u>90</u> PSI	
	Underground mains and lead in connections to system risers flushed before connection made to sprinkler piping.	
	VERIFIED BY COPY OF THE U FORM NO. 85B <input type="checkbox"/> YES <input type="checkbox"/> NO	OTHER EXPLAIN: <u>Installed, tested, flushed by others</u>
	FLUSHED BY INSTALLER OF UNDERGROUND SPRINKLER PIPING <input type="checkbox"/> YES <input type="checkbox"/> NO	

BLANK TESTING GASKETS	NUMBER USED: <u>0</u>	LOCATIONS	NUMBER REMOVED
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WELDING	WELDED PIPING <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
	IF YES ...	
	DO YOU CERTIFY AS THE SPRINKLER CONTRACTOR THAT WELDING PROCEDURES COMPLY WITH THE REQUIREMENTS OF AT LEAST AWS D10.9, LEVEL AR-3 <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
	DO YOU CERTIFY THAT THE WELDING WAS PERFORMED BY WELDERS QUALIFIED IN COMPLIANCE WITH THE REQUIREMENTS OF AT LEAST AWS D10.9, LEVEL AR-3 <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
DO YOU CERTIFY THAT WELDING WAS CARRIED OUT IN COMPLIANCE WITH A DOCUMENTED QUALITY CONTROL PROCEDURE TO INSURE THAT ALL DISCS ARE RETRIEVED, THAT OPENINGS IN PIPING ARE SMOOTH, THAT SLAG AND OTHER WELDING RESIDUE ARE REMOVED, AND THAT THE INTERNAL DIAMETERS OF PIPING ARE NOT PENETRATED <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		

HYDRAULIC DATA NAMEPLATE	NAMEPLATE PROVIDED <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	IF NO, EXPLAIN
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REMARKS
5/30/19

SIGNATURES	NAME OF SPRINKLER CONTRACTOR: <u>Eastern Fire</u>		
	TESTS WITNESSED BY		
	FOR PROPERTY OWNER (SIGNED): <u>[Signature]</u>	TITLE: <u>Job Super</u>	DATE: <u>5/30/19</u>
	FOR SPRINKLER CONTRACTOR (SIGNED): <u>[Signature]</u>	TITLE: <u>RHR</u>	DATE: <u>4/30/19</u>

ADDITIONAL EXPLANATION AND NOTES

* Retested on 3/26/19

SPRINKLERS	MAKE	MODEL	YEAR OF MANUFACTURE	ORIFICE SIZE	QUANTITY	TEMPERATURE RATING