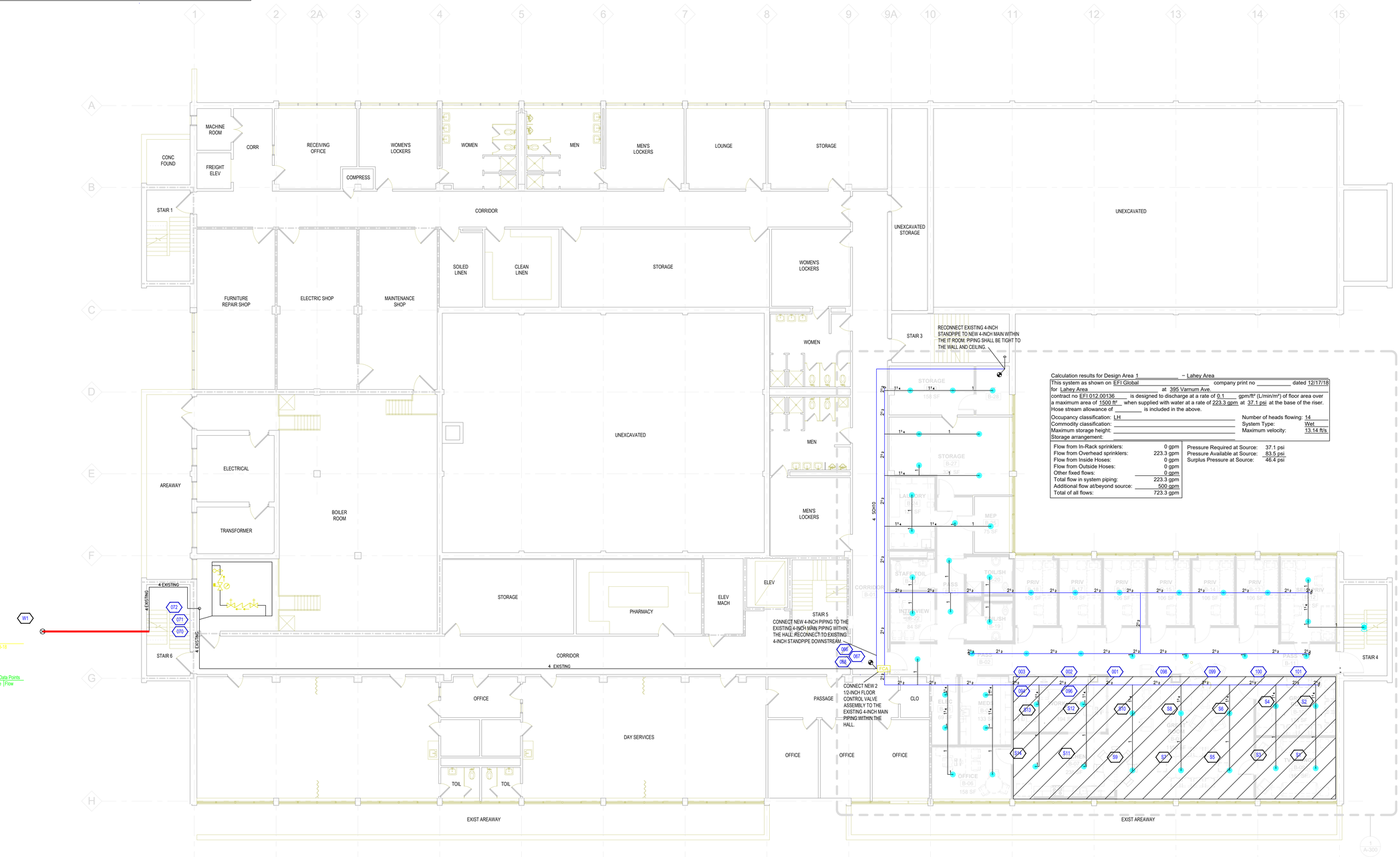
SYMBOLS LEGEND			
	ABOVE GROUND SPRINKLER PIPING		DOUBLE CHECK VALVE BACKFLOW PREVENTER
	SPRINKLER DRAIN PIPING		RISER CHECK VALVE WITH DRAIN
	UNDERGROUND PIPING		SUPERVISED BUTTERFLY VALVE
	PRESSURE GUAGE		CHECK VALVE
	WATERFLOW SWITCH		SPRINKLER RISER
	EXISTING FIRE DEPARTMENT CONNECTION	FCA	FLOOR CONTROL ASSEMBLY
	POINT OF CONNECTION	xxx	HYDRAULIC REFERENCE



Calculation results for Design Area 1 – Lahey Area

This system as shown on EFI Global company print no _____ dated 12/17/18
for Lahey Area at 395 Varnum Ave.
contract no EFI 012.00136 is designed to discharge at a rate of 0.1 gpm/ft² (L/min/m²) of floor area over a maximum area of 1500 ft² when supplied with water at a rate of 223.3 gpm at 37.1 psi at the base of the riser.
Hose stream allowance of _____ is included in the above.

Occupancy classification: LH
Commodity classification: _____
Maximum storage height: _____
Storage arrangement: _____

Number of heads flowing: 14
System Type: Wet
Maximum velocity: 13.14 ft/s

Flow from In-Rack sprinklers:	0 gpm
Flow from Overhead sprinklers:	223.3 gpm
Flow from Inside Hoses:	0 gpm
Flow from Outside Hoses:	0 gpm
Other fixed flows:	0 gpm
Total flow in system piping:	223.3 gpm
Additional flow at/beyond source:	500 gpm
Total of all flows:	723.3 gpm

Pressure Required at Source:	37.1 psi
Pressure Available at Source:	83.5 psi
Surplus Pressure at Source:	46.4 psi

SYM	POSITION	FINISH	TEMP	K	NPT	SIN	MFG.	MODEL#
	PEND	CHROME	165	5.60	1/2"	VK410	Viking	VK410
	PEND	CHROME	155	5.60	1/2"	TY323	TYCO	TY-FRB

1 BASEMENT FIRE SPRINKLER PLAN
SCALE: 1/8" = 1'-0"

efi global
21 FATHER DEVALLES BLVD.
FALL RIVER, MA 02723

PROJECT NORTH

LAHEY REHABILITATION UNIT AT SOLOMON MENTAL HEALTH CENTER
Lowell, Massachusetts

REV	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	02/22/19

SEAL:
PROJECT NUMBER: 012.00128
DATE: 02/22/19
SHEET TITLE AND NUMBER:

SP-1.0

BASEMENT FIRE SPRINKLER PLAN