

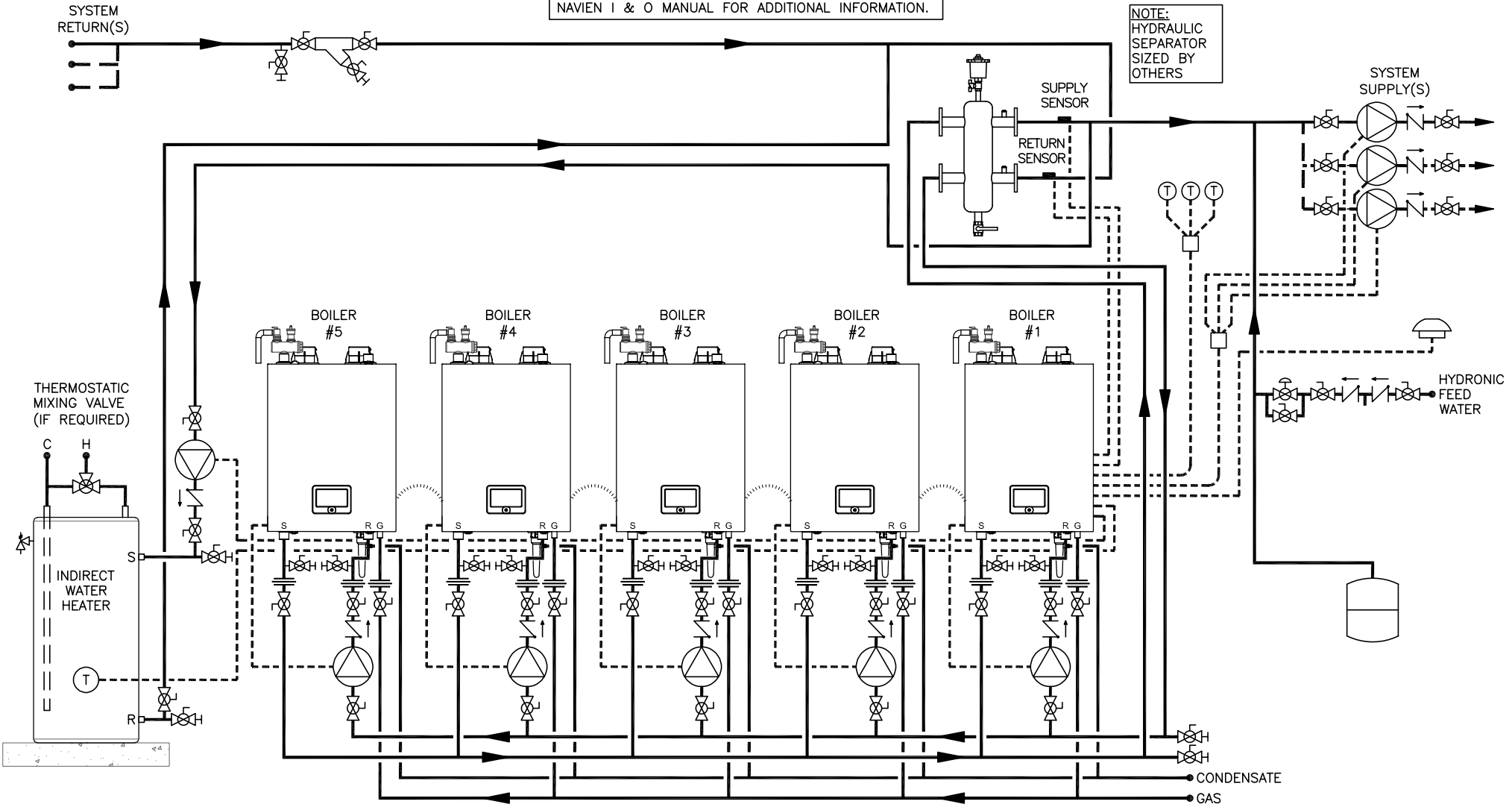
THIS DRAWING IS INTENDED ONLY AS A GUIDE AND NOT AS A REPLACEMENT FOR PROFESSIONALLY ENGINEERED PROJECT DRAWINGS. THIS CONCEPT SYSTEM DRAWING DOES NOT IMPLY COMPLIANCE WITH LOCAL BUILDING CODES. ACTUAL INSTALLATION MAY VARY DEPENDING ON INSTALLATION LOCATION AND PARAMETERS AND IT MUST BE DONE IN ACCORDANCE TO ALL LOCAL BUILDING CODES. VERIFY WITH LOCAL BUILDINGS OFFICIALS BEFORE COMMENCEMENT OF SYSTEM INSTALLATION. CHANGES OR MODIFICATIONS TO PIPING OR DESIGN IS NOT TO BE PERFORMED WITHOUT EXPRESSED WRITTEN PERMISSION BY NAVIEN, INC.

**RECOMMENDED SYSTEM & HEADER PIPE SIZES – TOTAL BTU (>4 FT/SEC.)**

- 1-1/2" – UP TO 301,000 BTU'S (1 BOILER)
- 2" – 399,000 BTU'S (1 BOILER)
- 2-1/2" – 601,000 TO 798,000 BTU'S (2 BOILERS)
- 3" – 903,000 TO 1,197,000 BTU'S (3 BOILERS)
- 4" – 1,204,000 TO 3,192,000 BTU'S (4 TO 8 BOILERS)

NFB-C UNIT CAN INTERNALLY CONTROL UP TO 3 ZONE CIRCULATORS PER BOILER, WITHOUT A ZONE CONTROL PANEL INSTALLED. ANY ADDITIONAL ZONES SHALL REQUIRE A CIRC ZONE PANEL. REFER TO NAVIEN I & O MANUAL FOR ADDITIONAL INFORMATION.

NOTE:  
HYDRAULIC SEPARATOR  
SIZED BY OTHERS



SYMBOL LEGEND			
	BACKFLOW PREVENTER		CHECK VALVE
	FULL-PORT VALVE		EXPANSION TANK
	CONTROL WIRING		CIRCULATOR
	CONDENSATE TRAP		THERMOSTAT
	AIR ELIMINATION		BALL DRAIN VALVE
	OUTDOOR TEMPERATURE SENSOR		UNION
	AUTOMATIC AIR VENT		MIXING VALVE
	WYE STRAINER W/ BLOWDOWN		BOILER RELIEF VALVE
	PRESSURE RELIEF VALVE		PRESSURE REDUCING VALVE
	HYDRAULIC SEPARATOR		CASCADE CABLE

**Navien**  
 20 GOODYEAR  
 IRVINE, CA 92618  
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 www.navienc.com

NFB-C SERIES BOILER

(5) NFB-C CONDENSING BOILERS WITH INDIRECT WATER HEATER  
 COMMON SECONDARY INJECTION PIPING WITH HYDRAULIC SEPARATOR  
 INCLUDES MODELS NFB-301C, 399C

DRAWN BY: S. STOEKE

NFB-C-5-ZP-MULT-IDWH-C-HS

JUNE 7, 2022