

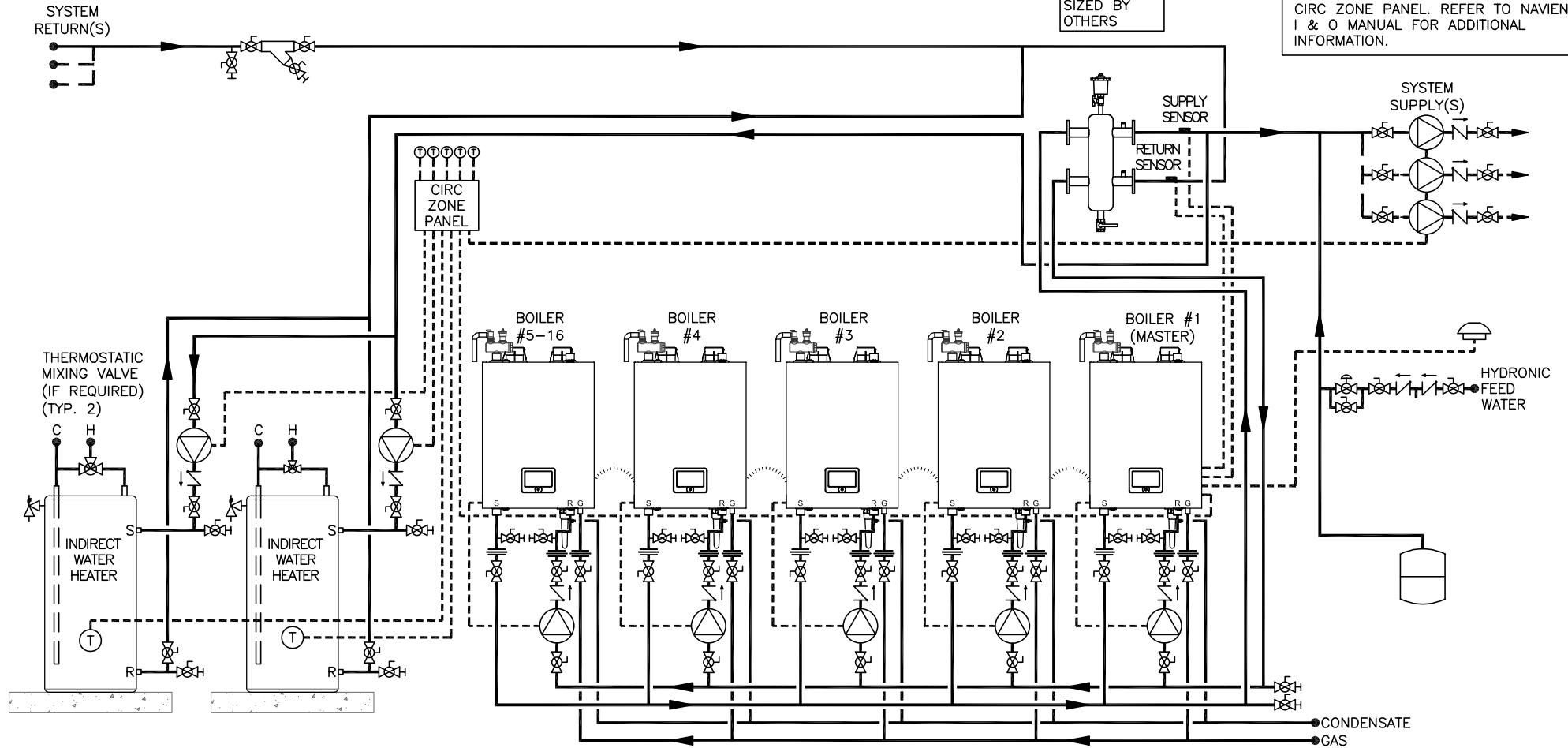
THIS DRAWING IS INTENDED ONLY AS A GUIDE AND NOT AS A REPLACEMENT FOR PROFESSIONALLY ENGINEERED PROJECT DRAWINGS. THIS CONCEPT SYSTEM DRAWING DOES NOT IMPLY COMPLIANCE WITH LOCAL BUILDING CODES. ACTUAL INSTALLATION MAY VARY DEPENDING ON INSTALLATION LOCATION AND PARAMETERS AND IT MUST BE DONE IN ACCORDANCE 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)

NOTE:  
HYDRAULIC  
SEPARATOR  
SIZED BY  
OTHERS

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



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



20 GOODYEAR  
IRVINE, CA 92618  
800-519-8794  
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## NFB-C SERIES BOILER

(5) TO (16) NFB-C CONDENSING BOILERS WITH (2) INDIRECT WATER HEATERS  
COMMON SECONDARY INJECTION PIPING WITH HYDRAULIC SEPARATOR  
INCLUDES MODELS NFB-301C, 399C

DRAWN BY: S. STOEKE

NFB-C-5+-ZC-MULT-IDWH-2-HS

DECEMBER 13, 2021