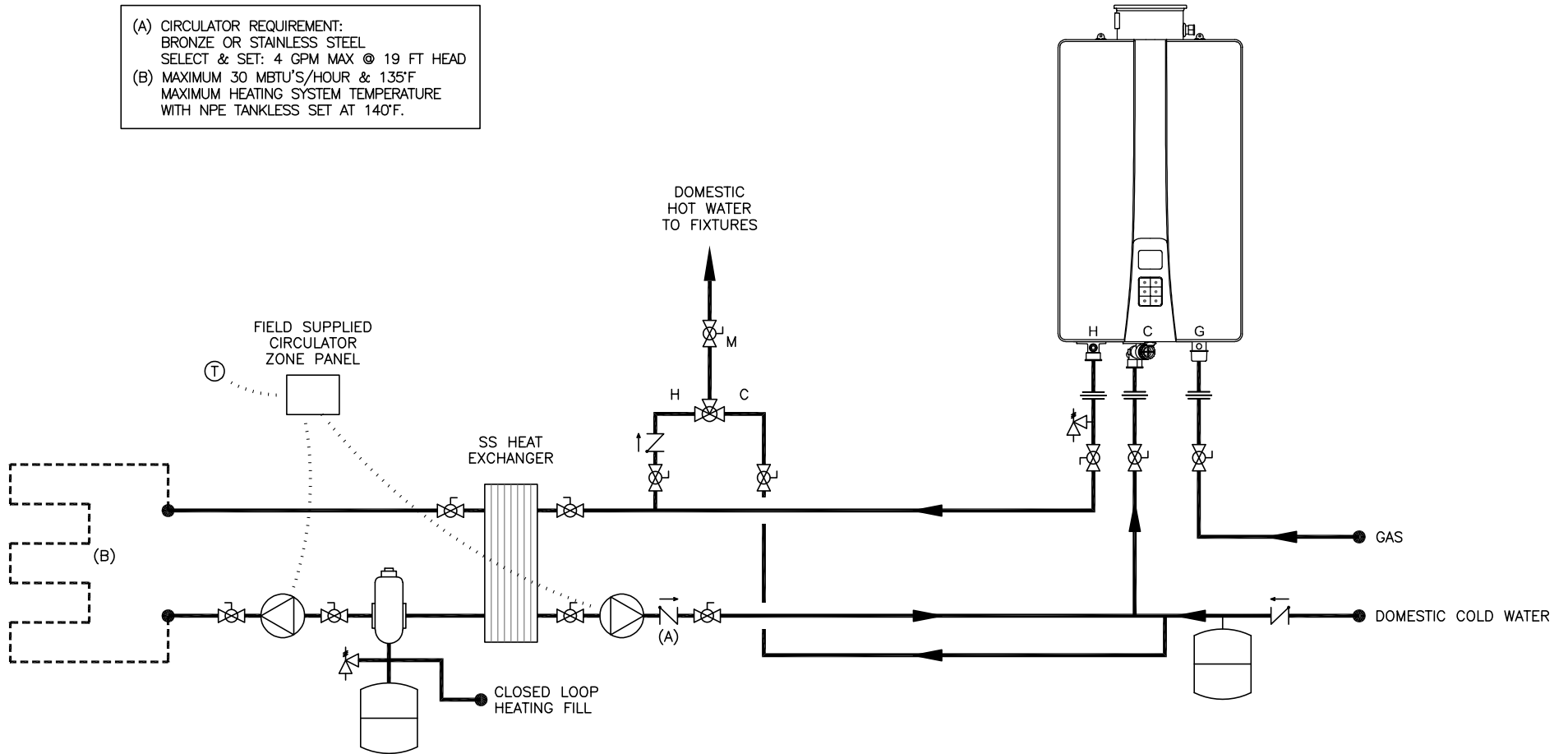


THIS DRAWING IS INTENDED ONLY AS A GUIDE AND NOT AS A REPLACEMENT FOR PROFESSIONALLY ENGINEERED PROJECT DRAWINGS. THIS CONCEPT SYSTEM DRAWING DOES NOT IMPLY COMPLIANCE WITH LOCAL BUILDING CODES. ACTUAL INSTALLATION MAY VARY DEPENDING ON INSTALLATION LOCATION AND PARAMETERS AND IT MUST BE DONE IN ACCORDANCE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

- (A) CIRCULATOR REQUIREMENT:  
BRONZE OR STAINLESS STEEL  
SELECT & SET: 4 GPM MAX @ 19 FT HEAD
- (B) MAXIMUM 30 MBTU'S/HOUR & 135°F  
MAXIMUM HEATING SYSTEM TEMPERATURE  
WITH NPE TANKLESS SET AT 140°F.



TANKLESS QUANTITY: RECOMMENDED PIPE SIZE

1 UNIT: 3/4"

2 UNITS: 1"

3 UNITS: 1-1/4"

4-5 UNITS: 1-1/2"

6-8 UNITS: 2"

9-14 UNITS: 2-1/2"

15-16 UNITS: 3"

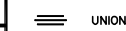
SYMBOL LEGEND



20 GOODYEAR  
IRVINE, CA 92618  
800-519-8794  
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NPN-U SERIES TANKLESS WATER HEATER

NPN-U TANKLESS WATER HEATER COMBI WITH  
STAINLESS STEEL HEAT EXCHANGER  
INCLUDES MODELS 160, 180 AND 199



UNION



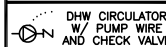
CHECK VALVE



FULL-PORT VALVE



MIXING VALVE



DHW CIRCULATOR  
W/ PUMP WIRE  
AND CHECK VALVE



PRESSURE  
RELIEF  
VALVE



CIRCULATOR



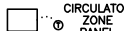
EXPANSION  
TANK



STAINLESS STEEL  
HEAT EXCHANGER



AIR  
ELIMINATION



CIRCULATOR  
ZONE  
PANEL

DRAWN BY:

S. STOEKE

NPN-U-COMBI-SS

APRIL 29, 2022