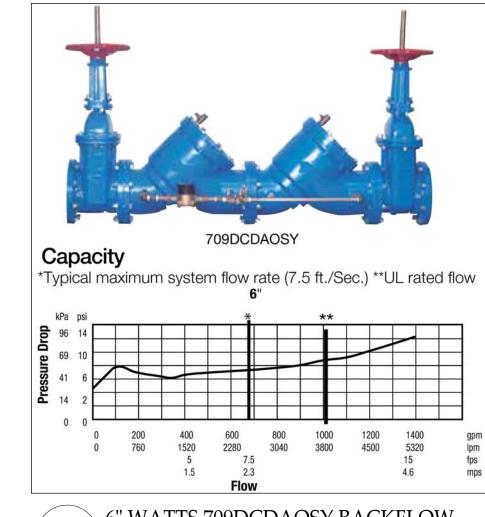
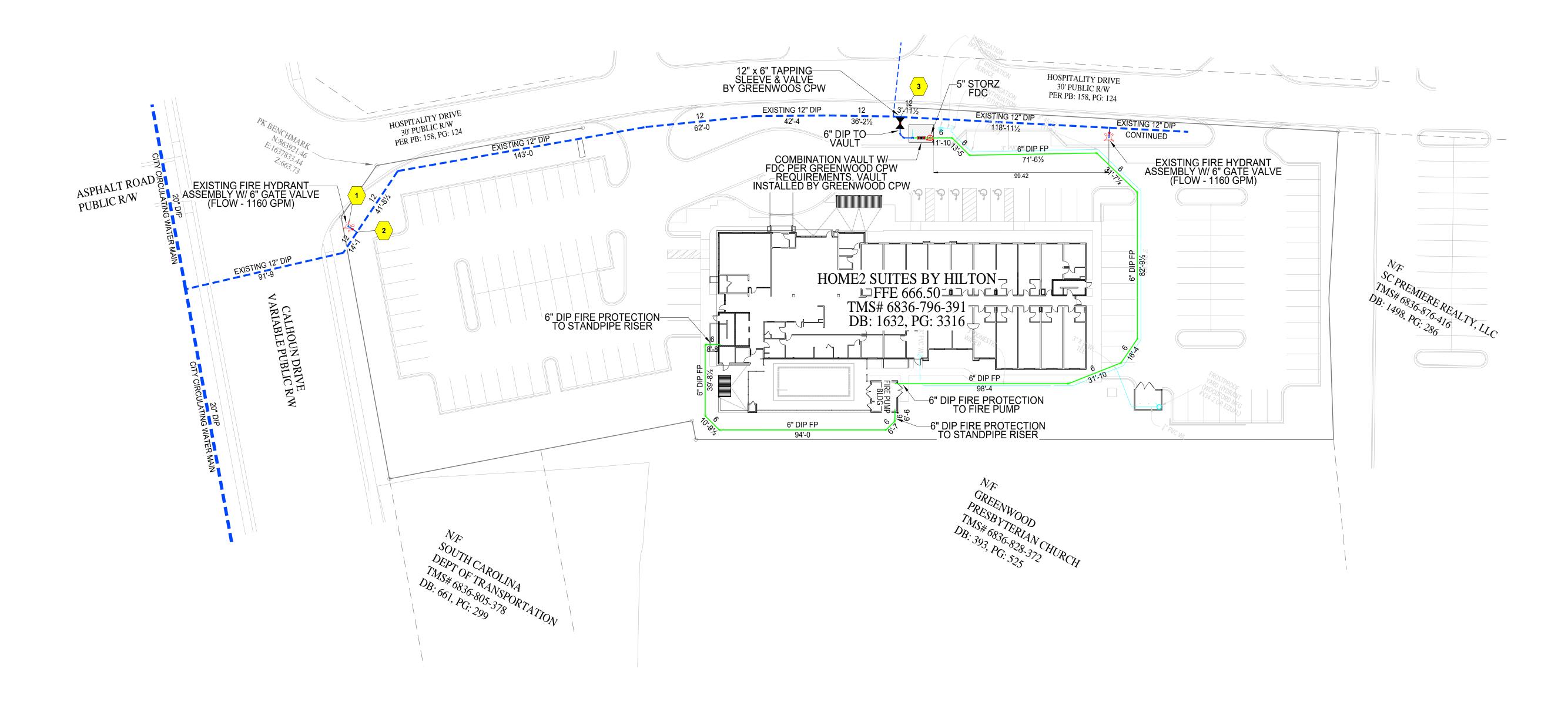
# VICINITY SITE MAP - N.T.S.

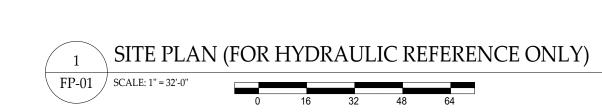
# HOME2 SUITES BY HILTON 4-STORY HOTEL CONSTRUCTION FIRE PROTECTION

475 Hospitality Blvd, Greenwood, SC 29649











Sprinkler Legend - Total Project

SITE PLAN GENERAL NOTES

1. ALL UG PIPING AND UNDERGROUND APPURTENANCES BY OTHERS. THE HILLER COMPANIES TO START 1'-0" ABOVE FINISHED FLOOR. . UNDERGROUND PIPE, INCLUDING FIRE SPRINKLER FLANGED SPIGOT PIPE, SHALL BE HYDROSTATICALLY TESTED FOR TWO HOURS AT 200 PSI OR 50 PSI IN EXCESS OF NORMAL WORKING PRESSURE WHEN NORMAL WORKING PRESSURE EXCEEDS 150 PSI PER NFPA 24: 10.10.2.2 AND FLUSHED PER 24; 10.10.2.1 PRIOR TO CONNECTION TO SPRINKLER RISER. (TEST CONDUCTED BY OTHERS)

NO. DATE

Max Spacing

130ft2 OH / 225ft2 LH

18 x 18 / 324ft<sup>2</sup>

100ft2 OH / 196ft2 LH

18 x 18 / 324ft<sup>2</sup>

Chrome Res Esc

JOHN M CAMPBELL COMPANY

CONTRACTOR

attached sheet(s)

Title: Project Manager Date: 10/29/2025

Signed by: Miles Campbell

DRAWING INDEX SHEET NO.

> )3 )3 ັ

> )3 ř

)3 ^

Reviewed with corrections as

noted on submittal data and/or

SHEET TITLE 6,7( 3/\$1 '(6,\*1 127(6 6(,60,& \*(1(5\$/ 127(6 ),5( 3803 ' (7\$,/6 FIRE SUPPRESSION PLAN - FIRST FLOOR

),5( 68335(66,21 3/\$1 6(&21' )/225

),5( 68335(66,21 3/\$1 7+,5' )/225

FIRE SUPPRESSION PLAN - FOURTH FLOOR

67\$1' 3,3( +< 5\$8/,& &\$/\&8/\$7,21 5()(5(1&(

\*30 6) (SQFT) ALLOWANCE

+(\$'6

67\$1'\$5' &29(5\$\*( (;7 &29(5\$\*)

64 )7 \$5(\$ 5(' 8&7,216 \$//2: (' 3(5 1)3\$ 

02675(027( &203\$570(17 8372 +(\$'6

5(6,' (17,\$/

35,0 \$5 < 5 : \$ \$ %

<6: (70\$18\$/ &/\$66

TOTAL SQFT

232 SQFT

64)7

~~ 64)7

~~ 64)7

°° 64)7

58,296 SQFT

HILLER (;,67 27+(56

" 6+2: 1 21 3/\$1 4 STORIES

1)3\$:(7

OVERALL FIRE SPRINKLER DESIGN CRITERIA

MAX COVERAGE PER SPRINKLER (SF)

5(6,' (17,\$/

25' ,1\$5< +\$*=*\$5'

\$5(\$ 5(' 8&7,216 \$//2: (' )25 48,& 5(63216( 635,1./(56 3(5 1)3\$ 25 86( 5220 ' (6,\*1 0(7+2' 3(5 1)3\$ " : +(5( \$33/,&\$%)(

FIRE SPRINKLER DESIGN CRITERIA

/,\*+7 +\$*=*\$5'

25',1\$5<+\$=\$5' \*5283

5(6,' (17,\$/ 635,1./(56

25 3(5 /,67,1\* 2) 5(6,' (17,\$/ +(\$'

5(6,' (17,\$/ \$5(\$ 2) \$33/,&\$7,21 5(6,' (17,\$/ +26( \$//2: \$1&(

1)3\$ 81' (5\*5281' %<27+(56

,17(51\$7,21\$/ %8,/',1\* &2'(: 6&\$0(1'0(176

**ZONE AREA OF PROTECTION** 

PROJECT TOTAL

: \$//6)/2256253529,'(29(56,=('+2/(63(51)3\$

5,6(56 ' 2 127,1&/8' ( 5,6(5 1,33/(6 \$6 ' (),1(' ,1 1)3\$ 5(7\$,1,1\* 675\$36 72 %, ,167\$//(' 21 \$// & 7<3( &/\$0 36

SEISMIC DESIGN INFORMATION

3529,' ( \$' (48\$7( : \$7(5 92/80( \$1' 35(6685( 72 7+( 635,1./(5 6<67(0

CONTRACT RESPONSIBILITIES

81' (5\*5281' : \$7(5 0 \$,16 72 ° 2876,'

\$7 678%83 \$\%29(),1,6+(')/225

3,3( ,' (17,),&\$7,21 0 \$5. (56 25 3\$,17,1\*

),5( (;7,1\*8,6+(56 \$1' 25 +26( 5\$& 6

),5( ' (3\$570(17 &211(&7,21

8877,1\* 3\$7&+,1\* 2) &(,/,1\*6

STREET WATER CONNECTION

LOCATION

PUMP ROOM

67)/225

1')/225

5')/225

4TH FLOOR

ò 3,3(7+(29(56,=('+2/(6+\$//% /\$5\*(57+\$17+(',\$0(7(5 

3,3(6 \*2,1\* 7+58 %2& : \$//625 )/225672 +\$9( )/(;,%( &283/,1\*621 (\$&+6,' ( 2) 7+(

5,6(5 1,33/(6 %7: ((1 \$1' ^ ,1/(1\*7+72 +\$9( 21( )/(;,%( &283/,1\*: ,7+,1 2) 7+(

3529,' ( %8,/' ,1\* 6758&785( &\$3\$%( 2) +\$1' /,1\* \$// 5(48,5(' /,9( /2\$' 6 \$1' 6(,60,&/2\$' 6 \$6 5(48,5(' % &2' (

127,)<635,1./(5 &2175\$&725 ,1 : 5,7,1\* 2) 352-(&7 6&+(' 8/( &+\$1\*(6 72 6&+(' 8/( &+\$1\*(6

2: 1(5 6+\$// 0\$,17\$,1 %,/' ,1\* 7(03(5\$785(6\$%29( '(\*5((6)\$+5(1+(,7: +(5(: (7 3,3(6<67(06\$5(,167\$//(' 72 35(9(17)5((=,1\* 2) 3,3(

72 6,7( &21' ,7,216 \$1' 6758&785( 7+\$7 &28/' ,03\$&7 285 ' (6,\*1 \$1' ,167\$//\$7,21

USE GROUP & CONSTRUCTION

,17(51\$7,21\$/),5(&2'(: 6&\$0(1'0(176

SYSTEM TYPE AREA OF APPLICATION

HOSE ALLOWANCE

FACILITY USAGE

1)3\$ 5

NFPA 25

CONSTRUCTION TYPE: OCCUPANCY GROUP:

NUMBER OF STORIES: SPRINKLER SYSTEM:

ZONE NUMBER

ZONE P

=21(

ZONE 2

ZONE 3

ZONE 4

6,7( &/\$66,

SEISMIC NOTES

TOP OR BOTTOM OF THE RISER NIPPLE.

4. ALL RISERS OVER 3' LONG TO HAVE A 4-WAY BRACE.

6(,60,&'(6,\*1 &\$7(\*25< D, & SEISMIC OCCUPANCY CATEGORY (b): III SEISMIC RISK CATEGORY (c): II 6(,60,&&2()),&,(17,6V

OWNERS RESPONSIBILTY

%8,/',1\* +(,\*+7,1)((7,

### **SUBMITTALS** Home 2 Suites by Hilton 4-Story Hotel Construction 475 Hospitality Blvd. Greenwood, SC 29649 CONTRACT WITH: John M. Campbell Company COMPANIES 102 Winchester Avenue Monroe, NC 28110 TRACTOR LICENSE NUMBER: NC # 36018 / SC # FSC. 1078-B PHONE: (704) 254-3214 PH: 704-784-4218 P O BOX 1090 DRAWING NAME: SITE PLAN & DESIGN NOTES

FAX: 757-391-0098

DRAWN BY: TWH AHJ: LLR / Greenwood FM DATE: 10/10/25

FP-01 of 08 SCALE: AS NOTED CONTRACT NO.: CF0588

It is the sole responsibility of owner and owners representative

to insure that this building/buildings has proper heat and insulation to prevent fire sprinkler pipe, fittings and devices from freezing.

> 1.) SYSTEMS ARE DESIGNED AND INSTALLED PER NFPA 13 (2019 EDITION) 2.) RESIDENTIAL SYSTEM PIPING 2" AND SMALLER TO BE CPVC WITH CPVC 3.) STEEL SYSTEM PIPING 2" AND SMALLER TO BE SCH. 40 BLACK STEEL PIPE AND FITTINGS ARE THREADED / GROOVED / FLANGED / WELDED. 4.) STEEL SYSTEM PIPING 2½" OR LARGER TO BE SCH. 10 BLACK STEEL PIPE AND FITTINGS ARE GROOVED / FLANGED / WELDED. 5.) ALL HANGERS ARE TO MEET THE CRITERIA SET FORTH BY NFPA 13 (2019

11.) SPRINKLERS LOCATED 7'-6" OR LESS FROM FLOOR TO BE PROTECTED

10.) ALL UNDERGROUND PIPING BY OTHERS.

WITH APPROVED GUARDS.

FITTINGS. CONVERT TO BLACK STEEL PIPE AND FITTINGS WHERE EXPOSED. | RESIDUAL PRESSURE EDITION) AND SPACED ACCORDING TO MANUFACTURES SPECIFICATIONS. 6.) WIRING OF ELECTRICAL EQUIPMENT IS TO BE BY OTHERS. 7.) PAINTING OF PIPE OR COMPONENTS SHALL BE BY OTHERS. 8.) 1 = REPRESENTS A HYDRAULIC REFERENCE POINT. 9.) THE HILLER COMPANIES TO START 1'-0" ABOVE FINISHED FLOOR.

WATER SUPPLY INFORMATION HYDRANT LOCATION @ TEST NODE (SEE SITE PLAN) NODE #1 TEST TAKEN BY TESTED BY - MIKE PROCTOR WITNESSED BY - RUSSELL HOLLEY CONTACT EMAIL - RHOLLEY@GREENWOODCPW.COM

(SEAL: (803) 545-3881

SIZE GPM @ PSI

TYPE OF DRIVER

09/30/2025 ELECTRICAL REQ.5

GREENWOOD CPW

HYDRANT LOCATION - SEE FP-01

NICET REVIEW STAMP JUAN OCHOA NICET #139445 LEVEL IV WATER BASED SYSTEMS LAYOUT VALID THROUGH 01/01/2027

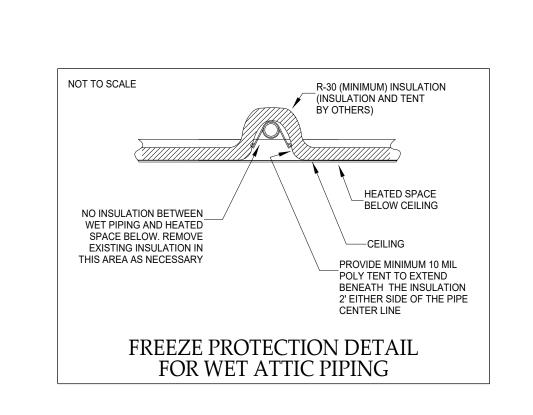
	Symbol	Manufacturer	SIN	Model	Quantity	K-Factor	Type	Size	Response	Fi
	$\boxtimes$	Viking	VK300	Microfast	9	5.6	Upright	1/2	Quick	В
		Viking	VK4621	Concealed	55	5.6	Concealed Pendent	1/2	Quick	В
	<b>9</b>	Viking	VK302	Microfast	33	5.6	Pendent	1/2	Quick	Ch
		Viking	VK4621	Concealed	1	5.6	Concealed Pendent	1/2	Quick	В
		Viking	VK494	Freedom	59	4.9	Concealed Pendent	1/2	Fast	В
		Generic	MFG	Chute Head	4	5.6	Horizontal Sidewall	1/2	Quick	В
		Viking	VK305	Microfast	3	5.6	Horizontal Sidewall	1/2	Quick	Ch
$\Pi$		Viking	VK460	Freedom	104	5.8	Horizontal Sidewall	1/2	Fast	Ch
11	•	Victaulic	V3518	VS1	4	5.6	Pendent	1	Quick	V
-		Viking	VK468	Freedom	208	4.9	Pendent	1/2	Fast	Ch
11										

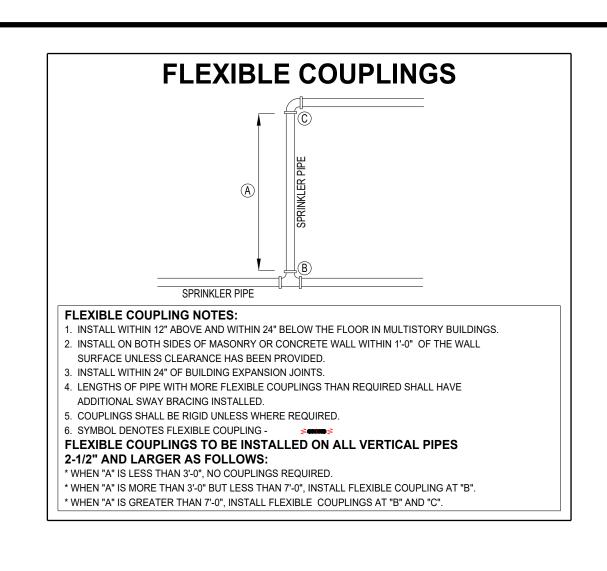
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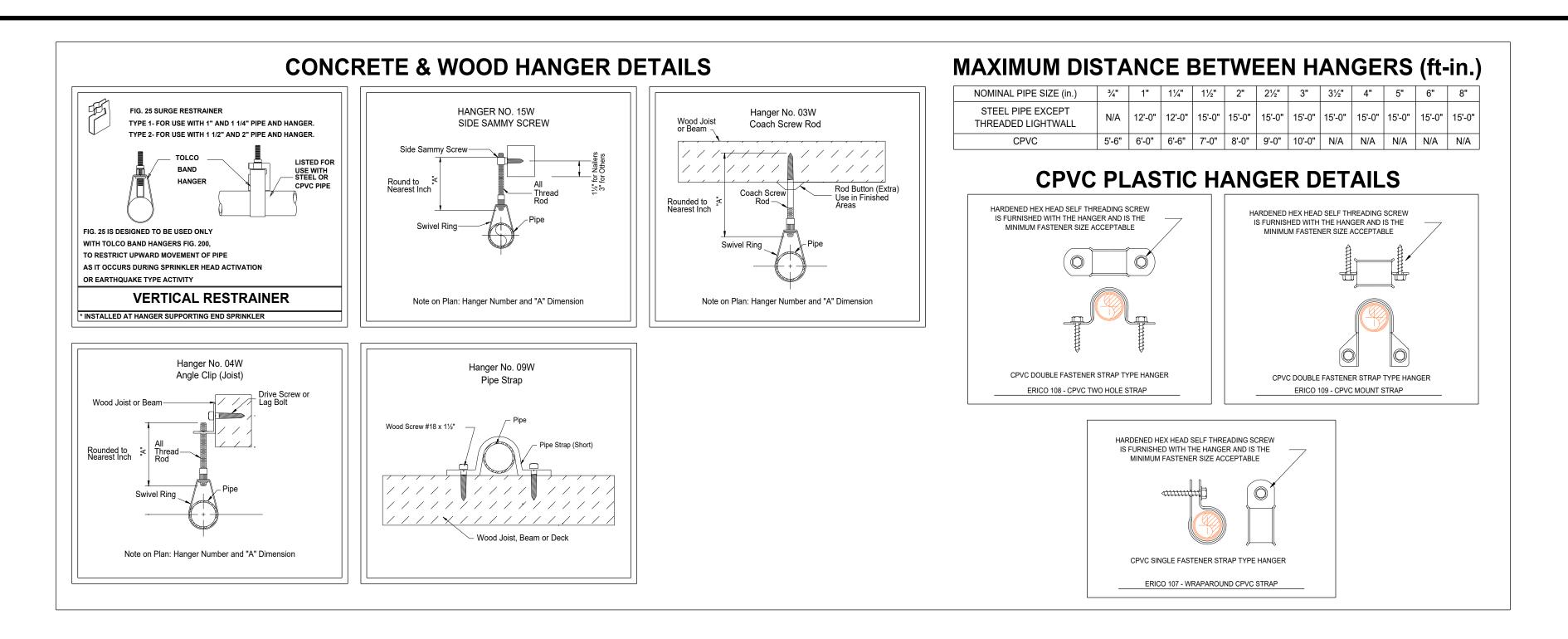
REVISION DISCRIPTION

CONCORD, N.C. 28026 FAX: 704-784-4405 PH: 757-391-0050 P O BOX 458

PORTSMOUTH VA. 23705







LATERAL SEISMIC BRACING CALCULATIONS (STEEL PIPE)

Address:

Telephone:

Structure attachment fittings:

FAST CLAMP

(to be used on plans)

SPRINKLER SYSTEM LOAD CALCULATION WHERE &n= 0.35

\* LISTED LOAD RATING PER NFPA 13 - 2019 USED

(5" RODS USED - NO LATERAL BRACING REQUIRED PER NFPA 13; 18.5.5.10.2)

Sway brace (pipe attachment) fittings:

Contractor: The Hiller Companies, LLC.

Fax: (\_\_)\_\_-\_/\_

SEISMIC BRACE ATTACHMENTS

Listed load rating: 2015 Adj. load rating: 1425

Make: PHD Model: Fig. 015

Listed load rating: \( \square 1000 \) Adj. load rating: \( \square 707 \)

SÉISMIC BRACE ASSEMBLY DETAIL

7.94 lb./ft.

11.78 lb./ft.

 $F_{pw} = C_p x W_p x 1.15 \text{ (safety):} 0.00 \text{ lb.}$ 

23.03 lb./ft.

Total weight of water filled pipe W<sub>D</sub>:

FIG. 030

\_\_\_\_\_\_PHD \_\_\_\_\_Model: \_\_\_\_Fig. 030

300 Manor Ave SW

Concord, NC 28025/

(704) 784-4218

Project:

Diameter of brace

Angle of brace:

I/r value:

0.00 lb.

0.00 lb.

0.00 lb.

0.00\lb.

Least radius of gyration:

Maximum horizontal load:

11/4 in. SCH 40

1½ in. SCH 10

2½ in. SCH 10

3 in. SCH 10

Orientation of connecting surface:

Home2 Suites By Hilton

475 Hospitality Blvd.

BRACE INFORMATION

FASTENER INFORMATION

Greenwood, SC 29649

1 in.

Schedule 40

√ 45° to 59°

1,310 lb.

Through-Bolt

w/ Fender Washer

\_\_\_\_620 lb.

Address;

Length of brace

Type of brace:

Angle of brace:

l/r value:

Length:

Maximum load:

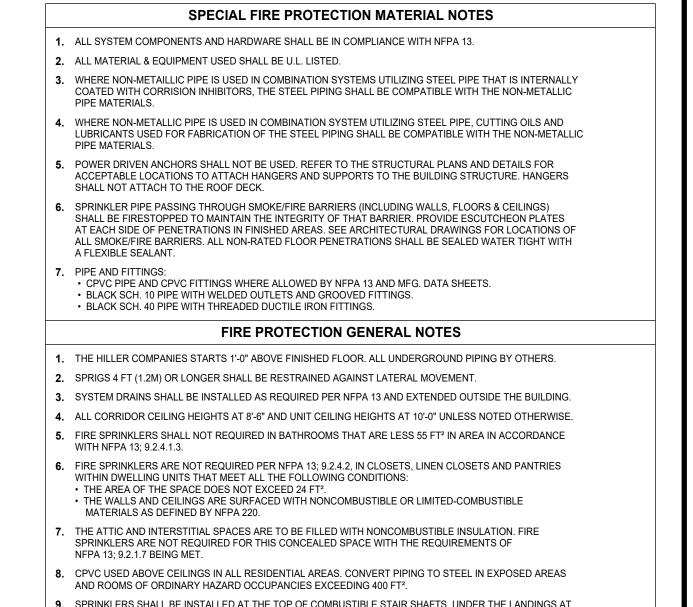
SCH 10

Diameter of brace:

Least radius of gyration:

Maximum horizontal load:

Orientation of connecting surface:



EACH FLOOR LEVEL AND BENEATH THE LOWEST INTERMEDIATE LANDING PER NFPA 13; 9.3.4.1.

OF WINDOWS, DOORWAYS, STAIRS, PASSAGEWAYS OR ACCESS TO EQUIPMENT

Home2 Suites By Hilton

475 Hospitality Blvd.

**BRACE INFORMATION** 

FASTENER INFORMATION

Length of brace:

Type of brace:

l/r value:

Angle of brace:

Least radius of gyration:

Maximum horizontal load:

Orientation of connecting surface:

Diameter of brace:

Greenwood, SC 29649

1 in.

Schedule 40

45° to 59°

0.421

200

\_\_\_1,310 lb.

Through-Bolt

w/ Fender Washer

440 lb.

10. ALL PIPING VALVES AND APPURTENANCES SHALL BE INSTALLED SUCH AS NOT TO OBSTRUCT ANY PORTION

4-WAY SEISMIC BRACING CALCULATIONS (STEEL PIPE)

Contractor: The Hiller Companies, LLC.

Telephone: (704) 784-4218

Fax: \_\_\_\_\_\_

SEISMIC BRACE ATTACHMENTS

Listed load rating: 2015 Adj. load rating: 1425

Listed load rating: 1000 Adj. load rating: 707

SEISMIC BRACE ASSEMBLY DETAIL

1" (25.4MM)

0.00 lb.

0.00 lb.

 Lateral brace
 □
 Longitudinal brace
 □
 4-way brace

2.05 lb./ft.

2.93 lb./ft.

3.04 lb./ft.

4.22 lb./ft.

7.94 lb./ft.

Total weight of water filled pipe W<sub>p</sub>: 294.50 lb.

 $F_{pw} = C_p x W_p x 1.15 \text{ (safety):}$  118.54 lb.

5.89 lb./ft.

11.78 lb./ft. 294.50 lb.

23.03 lb./ft. 0.00 lb.

PHD Model: Fig. 030

PHD Model: Fig. 015

Structure attachment fittings:

FIG. 030

FAST CLÀMP

Brace identification no.

(to be used on plans)

SPRINKLER SYSTEM LOAD CALCULATION WHERE C<sub>D</sub> = 0.35

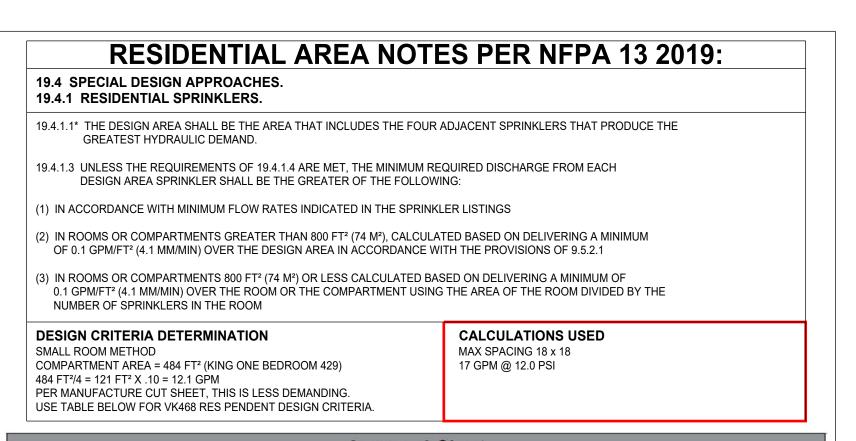
LISTED LOAD RATING PER NFPA 13 - 2019 USED

(LOCATED IN STAIR WELLS)

Sway brace (pipe attachment) fittings:

300 Manor Ave SW

Concord, NC 28025



Sprinkler Base	2111	NPT Thr	ead Size	Nominal	K-Factor	Maximu	m Water	Overall L		ength	
Part Number <sup>1</sup>	SIN	Inches	mm	U.S.	metric <sup>2</sup>	Working Pressure		Inc	hes	mm	
13637	VK468	1/2	15	4.9	70.6	175 psi	(12 bar)	2-1/4		58	
Max. Coverage		ry Temp 55 °F/68 °C)		iate Temp 5 °F/79 °C)	Deflector		Listings and	Approv	Minimum		
Area⁴ Ft.X Ft. (m X m)	Flow <sup>4</sup> GPM (L/min)	Pressure <sup>4</sup> PSI (bar)	Flow <sup>4</sup> GPM (L/min)	Pressure <sup>4</sup> PSI (bar)	to Ceiling	Installation Type	C-UL-US-EU⁵	VdS	NSF <sup>7</sup>	Spacing Ft. (m)	
12 X 12 (3.7 X 3.7)	13 (49.2)	7.0 (0.48)	13 (49.2)	7.0 (0.48)			See Foot-notes 6 and 8.	See Foot- notes 6 and 8.		8 (2.4)	
14 X 14 (4.3 X 4.3)	13 (49.2)	7.0 (0.48)	13 (49.2)	7.0 (0.48)		Standard surface-mounted escutcheons, or					
16 X 16 (4.9 X 4.9)	13 (49.2)	7.0 (0.48)	13 (49.2)	7.0 (0.48)	1-1/8 to 2 inch	recessed with the Micromatic® Model E-1,			See Foot- note		
18 X 18 (5.5 X 5.5)	17 (64.4)	12.0 (0.83)	17 (64.4)	12.0 (0.83)		E-2, or E-3 Recessed Escutcheon			6.		
20 X 20 (6.1 X 6.1)	20 (75.7)	16.7 (1.15)	20 (75.7)	16.7 (1.15)							

<sup>1</sup> Part number shown is the base part number. For complete part number, refer to Viking's current price schedule.

<sup>2</sup> Metric K-factor measurement shown is when pressure is measured in Bar. When pressure is measured in kPa, divide the metric K-factor shown by

<sup>3</sup> This chart shows the listings and approvals available at the time of printing. Other approvals may be in process. Check with the manufacturer for any additional approvals. Refer also to Design Criteria

MAX SPACING 16 x 16

Escutcheon, or

G-1 Adjustable

surface-mounted scutcheons only 7 and 10 note 7 note 6 note 7

STATIC PRESSURE

FLOW G.P.M.

DATE OF TEST

TEST TAKEN BY

WITNESSED BY - RUSSELL HOLLEY

HYDRANT LOCATION - SEE FP-01

CONTACT EMAIL - RHOLLEY@GREENWOODCPW.COM

20 GPM @ 11.9 PSI

<sup>4</sup> For areas of coverage smaller than shown, use the "Flow" and "Pressure" for the next larger area listed. Flows and pressures listed are per sprinkler. The distance from sprinklers to walls shall not exceed one-half the sprinkler spacing indicated for the minimum "Flow" and "Pressure" used. <sup>5</sup> Listed by Underwriter's Laboratories, Inc. for use in the U.S., Canada, and European Union. Approved Finishes are: Brass, Chrome, White Polyester, and Black Polyester. Other paint colors are available on request with the same C-UL-US-EU

listings as the standard finish colors. UL Classified to: NSF/ANSI/CAN Standard 61, Drinking Water System Components NSF/ANSI 372 (MH48034). 8 Approved finish is Electroless Nickel PTFE (ENT). Sprinklers with ENT, White Polyester, and Black Polyester finishes are C-UL-US-EU Listed as corrosion-resistant. ENT is available with standard surface-mounted escutcheons or the Micromatic Model E-1 Recessed Escutcheon.

**CALCULATIONS USED** 

DESIGN CRITERIA DETERMINATION SMALL ROOM METHOD COMPARTMENT AREA = 484 FT<sup>2</sup> (KING ONE BEDROOM 429) 484 FT<sup>2</sup>/4 = 121 FT<sup>2</sup> X .10 = 12.1 GPM PER MANUFACTURE CUT SHEET, THIS IS LESS DEMANDING. USE TABLE BELOW FOR VK460 HSW DESIGN CRITERIA.

Vi	Approval Chart Viking VK460, 5.8 K-Factor Residential Horizontal Sidewall Sprinkler systems designed to NFPA 13D or NFPA 13R. For systems designed to NFPA 13, refer to the design criteria. For Ceiling types refer to													
r systems desi	gned to NF	PA 13D or			ems design itions of N			design cı	riteria. F	or Ceili	ng types	refer to		
orinkler Base	SIN	NPT Thr	ead Size	Nominal	K-Factor	Maximun	n Water Working	Overall Length						
art Number 1		Inches	mm	U.S.	metric <sup>2</sup>	F	Pressure		Inches	mm				
13933	VK460	1/2	15	5.8	83.6	175	psi (12 bar)		2-1/2	63.5				
ax. Coverage Area <sup>3</sup>	Max. Spacing	Rating (	ry Temp 155 °F/68 C)	Intermediate Temp Rating (175 °F/79 °C)		.000.	Installation Type	Listings and Approv			als <sup>4</sup>	Minimum Spacing		
dth X Length Ft. X Ft. (m X m)	Ft. (m)	Flow <sup>3</sup> GPM (L/min)	Pressure <sup>3</sup> PSI (bar)	Flow <sup>3</sup> GPM (L/min)	Pressure <sup>3</sup> PSI (bar)	to Ceiling	Installation Type	C-UL- US-EU <sup>5</sup>	VdS	NYC	NSF 8	Ft. (m)		
X 12 (3.7 X 3.7)	12 (3.7)	16 (60.6)	7.6 (0.52)	16 (60.6)	7.6 (0.52)	7								
X 14 (4.3 X 4.3)	14 (4.3)	16 (60.6)	7.6 (0.52)	16 (60.6)	7.6 (0.52)		Standard surface-mounted							
X 16 (4.9 X 4.9)	16 (4.9)	20 (75.7)	11.9 (0.82)	21 (79.5)	13.1 (0.90)		escutcheons or							
X 18 (4.9 X 5.5)	16 (4.9)	22 (83.3)	14.4 (0.99)	22 (83.3)	14.4 (0.99)		recessed with the							
X 20 (4.9 X 6.1)	16 (4.9)	26 (98.4)	20.1 (1.39)	26 (98.4)	20.1 (1.39)		Micromatic® Model E-1,	See Foot-note	See Foot-	See Foot-	See Foot-			
X 22 (4.9 X 6.7)	16 (4.9)	31 (117.3)	28.6 (1.97)	-	1/77	4 to 6	E-1, E-2, or E-3	7 and 10	note 7	note 6	note 7	8		
X 18 (5.5 X 5.5)	18 (5.5)	23 (87.1)	15.7 (1.1)	23 (87.1)	15.7 (1.1)	inches	Recessed				lioto /	(2.4)		

7.94 lb./ft. 3 in. SCH 10 4 in. SCH 10 11.78 lb./ft. 6 in / SCH 10 23.03 lb./ft. 0.00\lb. Total weight of water filled pipe W<sub>p</sub>: 0.00 lb. Total weight of water filled pipe W<sub>p</sub>: 177.60 lb.  $F_{pw} = C_p x W_p x 1.15 \text{ (safety):}$  0.00 lb.  $F_{pw} = C_p x W_p x 1.15 \text{ (safety):}$  71.484 lb. \* LISTED LOAD RATING PER NFPA 13 - 2019 USED \* LISTED LOAD RATING PER NFPA 13 - 2019 USED (5" RODS USED - NO LATERAL BRACING REQUIRED PER NFPA 13; 18.5.5.10.2) (LOCATED ON ALL SYSTEM MAIN THROUGHOUT) 1/2" MALE NPT DRAIN OUTDOOR VENT CONNECTION — SCREEN ASSEMBLY POTTER MODEL PAV AIR VENT VALVE. - FROM TOP OF SPRINKLER PIPE 1/2" CLOSE NIPPLE -1/2" UNION CONNECTION -1/2" CLOSE NIPPLE DWG # 1165-1-B

SEISMIC CALCULATIONS - CPVC PIPING

Length of brace:

Type of brace:

Angle of brace:

l/r value:

Least radius of gyration:

Maximum horizontal load:

PER NFPA 13; 18.5.5.8

Orientation of connecting surface:

Diameter of brace:

The Hiller Companies, LLC.

300 Manor Ave SW

Concord, NC 28025/

Гelephone: \_\_\_\_\_(704) 784-4218/

SEISMIC BRACE ATTACHMENTS

Listed load rating: 1000 Adj. load rating: 707

Listed load rating: /1000 Adj. load rating: 707

SÉISMIC BRACE ASSEMBLY DETAIL

1.08 lb./ft.

— FIG. AF077

0.00 lb.

Make: AFCON Model: AF035

\_\_\_\_AFCON\_\_\_\_Model:\_\_

Structure attachment fittings:

(to be used on plans)

SPRINKLER SYSTEM LOAD CALCULATION WHERE Co = 0.39

Sway brace (pipe attachment) fittings:

LONGITUDINAL SEISMIC BRACING CALCULATIONS (STEEL PIPE)

Home2 Suites By Hilton

155 Threlkeld Blvd.

Greenwood, SC 29649

45° to 59°

0.421

200

1,310 lb.

Through-Bolt

w/ Fender Washer

5-1/2"

620 lb.

BRACE INFORMATION

FASTENER INFORMATION

Contractor: \_\_\_\_ The Hiller Companies, LLC.

Telephone: (704) 784-4218

AFCON

Sway brace (pipe attachment) fittings:

Install lateral assembly at closest

possible location on side outlet nipple of equal pipe size. Brace identification no

(to be used on plans)

SPRINKLER SYSTEM LOAD CALCULATION WHERE C<sub>p</sub>= 0.35

SEISMIC BRACE ATTACHMENTS

Listed load rating: 1000 Adj. load rating: 707

Listed load rating: 1000 Adj. load rating: 707

SEISMIC BRACE ASSEMBLY DETAIL

] Lateral brace | 🛛 Longitudinal brace | 🗌 4-way brace

0.68 lb./ft.

1.08 lb./ft.

7.94 lb./ft.

23.03 lb./ft.

11.78 lb./ft.

0.00 lb.

0.00 lb.

0.00 lb.

0.00 lb.

0.00 lb.

AFCON Model: AF035

300 Manor Ave SW

Concord, NC 28025

LATERAL SEISMIC BRACING CALCULATIONS (CPVC PIPE)

Home2 Suites By Hilton

475 Hospitality Blvd.

BRACE INFORMATION

FASTENER INFORMATION

Length of brace:

Diameter of brace:

Type of brace:

I/r value:

Maximum load:

Angle of brace:

Least radius of gyration:

Maximum horizontal load:

Orientation of connecting surface:

Greenwood, SC 29649

1 in.

Schedule 40

0.421

1,310 lb.

Through-Bolt

w/ Fender Washer

5-1/2"

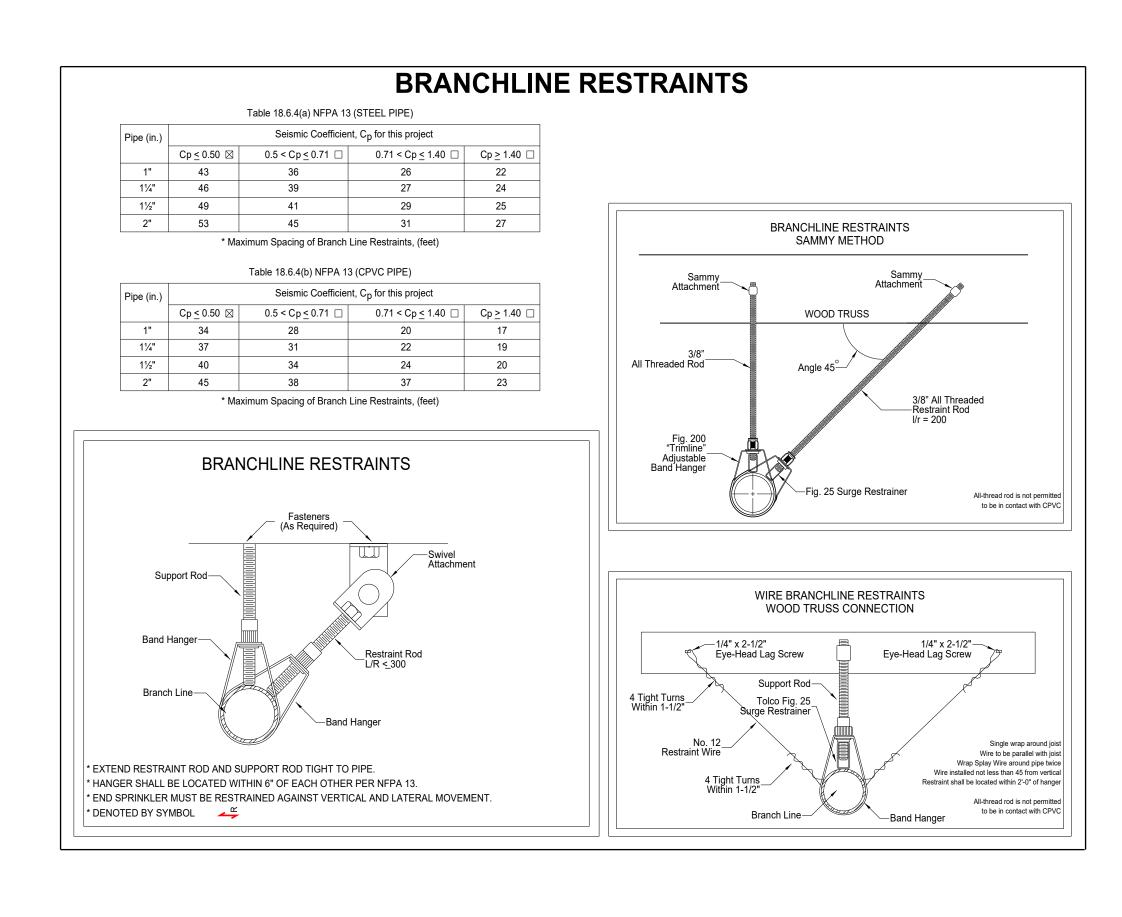
\_\_\_\_\_620 lb. /

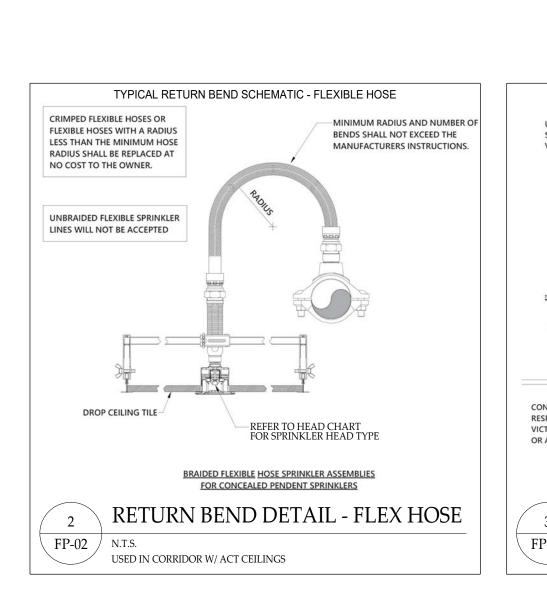
45° to 59°

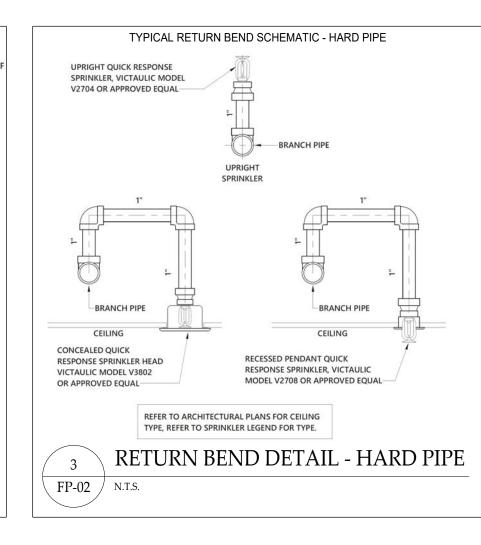
AIR VENT DETAIL FP-02 / SCALE: N.T.S. LOCATED AT TOP OF EACH STANDPIPE

PIPE SIZE	Ambie	ent Temperature During Cure F	Period
inches	60°F to 120°F	40°F to 59°F	0°F to 39°F
3/4"	45 min.	1.5 hr.	24 hr.
1"	45 min.	1.5 hr.	24 hr.
11/4"	1.5 hr.	16 hr.	120 hr.
11/2"	1.5 hr.	16 hr.	120 hr.
2"	6 hr.	36 hr.	See Note 1
21/2"	8 hr.	72 hr.	See Note 1
3"	8 hr.	72 hr.	See Note 1

Note 1: For these sizes, the solvent cement can be applied at temperatures below 32°F, however, the sprinkler system temperature must be raised to a temperature of 32°F or above and allowed to cure per the above recommendations prior to pressure testing.







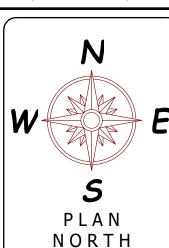
### It is the sole responsibility of owner and owners representative to insure that this building/buildings has proper heat and insulation to prevent fire sprinkler pipe, fittings and devices from freezing.

14 X 26 (4.3 X 7.9) 14 (4.3)

20 X 20 (6.1 X 6.1) 20 (6.1) 30 (113.6) 26.8 (1.8) 30 (113.6) 26.8 (1.8) 16 X 24 (4.9 X 7.3) 16 (4.9) 38 (143.8) 42.9 (2.96) -- --

WITH APPROVED GUARDS.

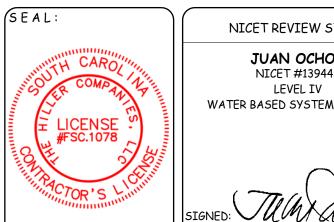
42 (159) 52.4 (3.62)



GENERAL NOTES: 1.) SYSTEMS ARE DESIGNED AND INSTALLED PER NFPA 13 (2019 EDITION) 2.) RESIDENTIAL SYSTEM PIPING 2" AND SMALLER TO BE CPVC WITH CPVC FITTINGS. CONVERT TO BLACK STEEL PIPE AND FITTINGS WHERE EXPOSED. | RESIDUAL PRESSURE 3.) STEEL SYSTEM PIPING 2" AND SMALLER TO BE SCH. 40 BLACK STEEL PIPE AND FITTINGS ARE THREADED / GROOVED / FLANGED / WELDED. FITTINGS ARE GROOVED / FLANGED / WELDED.

4.) STEEL SYSTEM PIPING 2½" OR LARGER TO BE SCH. 10 BLACK STEEL PIPE AND 5.) ALL HANGERS ARE TO MEET THE CRITERIA SET FORTH BY NFPA 13 (2019 EDITION) AND SPACED ACCORDING TO MANUFACTURES SPECIFICATIONS. 6.) WIRING OF ELECTRICAL EQUIPMENT IS TO BE BY OTHERS. 7.) PAINTING OF PIPE OR COMPONENTS SHALL BE BY OTHERS. 8.) 1 = REPRESENTS A HYDRAULIC REFERENCE POINT. 9.) THE HILLER COMPANIES TO START 1'-0" ABOVE FINISHED FLOOR. 10.) ALL UNDERGROUND PIPING BY OTHERS. 11.) SPRINKLERS LOCATED 7'-6" OR LESS FROM FLOOR TO BE PROTECTED

WATER SUPPLY INFORMATION FIRE PUMP SIZE GPM @ PSI 300 @ 60 TYPE OF DRIVER 09/30/2025 ELECTRICAL REQ.S HYDRANT LOCATION @ TEST NODE (SEE SITE PLAN) NODE #1 GREENWOOD CPW (803) 545-3881 TESTED BY - MIKE PROCTOR



NICET REVIEW STAMP			Sprinkler Legend - Total Project											
JUAN OCHOA	Symbo	Manufacturer	SIN	Model	Quantity	K-Factor	Type	Size	Response	Finish	Temperature	Note	Max Spacing	
NICET #139445	$\boxtimes$	Viking	VK300	Microfast	9	5.6	Upright	1/2	Quick	Brass	200°F	Exposed	130ft <sup>2</sup> OH / 225ft <sup>2</sup> LH	
LEVEL IV		Viking	VK4621	Concealed	55	5.6	Concealed Pendent	1/2	Quick	Brass	155°F	White Coverplate	130ft <sup>2</sup> OH / 225ft <sup>2</sup> LH	
WATER BASED SYSTEMS LAYOUT	lacksquare	Viking	VK302	Microfast	33	5.6	Pendent	1/2	Quick	Chrome	200°F	Chrome Res Esc	130ft <sup>2</sup> OH / 225ft <sup>2</sup> LH	
	<b>O</b>	Viking	VK4621	Concealed	1	5.6	Concealed Pendent	1/2	Quick	Brass	200°F	White Coverplate	130ft <sup>2</sup> OH / 225ft <sup>2</sup> LH	
		Viking	VK494	Freedom	59	4.9	Concealed Pendent	1/2	Fast	Brass	155°F	White Coverplate	18 x 18 / 324ft <sup>2</sup>	
		Generic	MFG	Chute Head	4	5.6	Horizontal Sidewall	1/2	Quick	Brass	155°F	Connect Chute Head	100ft <sup>2</sup> OH / 196ft <sup>2</sup> LH	
		Viking	VK305	Microfast	3	5.6	Horizontal Sidewall	1/2	Quick	Chrome	200°F	Chrome Res Esc	100ft <sup>2</sup> OH / 196ft <sup>2</sup> LH	
		Viking	VK460	Freedom	104	5.8	Horizontal Sidewall	1/2	Fast	Chrome	155°F	Chrome Res Esc	16 x 16 ft / 256ft <sup>2</sup>	
IGNED: TUM alas		Victaulic	V3518	VS1	4	5.6	Pendent	1	Quick	VC250	200°F	VC250 Concealed	130ft <sup>2</sup> OH / 225ft <sup>2</sup> LH	
		Viking	VK468	Freedom	208	4.9	Pendent	1/2	Fast	Chrome	155°F	Chrome Res Esc	18 x 18 / 324ft <sup>2</sup>	
VALID THROUGH 01/01/2027					Total = 480									

NO.	DATE	REVISION DISCRIPTION	J ВУ	
				dol ITP 4
				CONTRA

SEISMIC CALCULATIONS - STEEL PIPING

4-WAY SEISMIC BRACING CALCULATIONS (STEEL PIPE)

Telephone:

Structure attachment fittings

FIG. 015 (X2)

(to be used on plans)

SPRINKLER SYSTEM LOAD CALCULATION WHERE C<sub>p</sub>= 0.3

\* LISTED LOAD RATING PER NFPA 13 - 2019 USED

(LOCATED IN PUMP ROOM)

FAST CLÀMP

Sway brace (pipe attachment) fittings:

The Hiller Companies, LLC.

300 Manor Ave SW

Concord, NC 28025

(704) 784-4218

PHD Model: Fig. 030

PHD Model: Fig. 015

Fax: \_\_\_\_\_\_

SEISMIC BRACE ATTACHMENTS

Listed load rating: 2015 Adj. load rating: 1425

Listed load rating: 1000 Adj. load rating: 707

SEISMIC BRACE ASSEMBLY DETAIL

2.05 lb./ft.

2.93 lb./ft

3.04 lb./f

5.89 lb./ft

7.94 lb./ft.

11.78 lb./ft.

23.03 lb./ft.

Total weight of water filled pipe W<sub>D</sub>: 230.30 lb.

 $F_{pw} = C_p x W_p x 1.15 \text{ (safety):} 92.696 \text{ lb.}$ 

0.00 lb.

0.00 lb.

0.00 lb.

0.00 lb.

230.30 lb.

Home2 Suites By Hilton

475 Hospitality Blvd.

Greenwood, SC 29649

Schedule 40

45° to 59°

0.421

200

1,310 lb.

Through-Bolt

w/ Fender Washer

5-1/2"

\_\_\_\_440 lb.

BRACE INFORMATION

FASTENER INFORMATION

Length of brace:

Angle of brace:

l/r value:

Diameter of brace:

Least radius of gyration:

Maximum horizontal load:

1½ in. SCH 40

3 in SCH 10

4 in. SCH 10

SCH 10

Orientation of connecting surface:

LONGITUDINAL SEISMIC BRACING CALCULATIONS (STEEL PIPE)

Address:

Structure attachment fittings

RISER CLAMP

Brace identification no.

(to be used on plans)

SPRINKLER SYSTEM LOAD CALCULATION WHERE C<sub>p</sub>= 0.3

\* LISTED LOAD RATING PER NFPA 13 - 2019 USED

(LOCATED ON STANDPIPE 1ST FLOOR CORRIDOR)

Sway brace (pipe attachment) fittings:

Contractor: The Hiller Companies, LLC.

Telephone: (704) 784-4218

SEISMIC BRACE ATTACHMENTS

Listed load rating: 2015 Adj. load rating: 1425

Listed load rating: 2015 Adj. load rating: 1425

SEISMIC BRACE ASSEMBLY DETAIL

☐ Lateral brace ☐ ☐ Longitudinal brace ☐ ☐ 4-way brace

2.05 lb./ft.

2.93 lb./ft.

3.04 lb./ft.

7.94 lb./ft.

11.78 lb./ft.

23.03 lb./ft.

 $F_{DW} = C_{D} \times W_{D} \times 1.15 \text{ (safety):}$  379.32 lb.

Total weight of water filled pipe W<sub>D</sub>: 942.40 lb.

/TRUSS

0.00 lb.

0.00 lb.

0.00 lb.

0.00 lb.

0.00 lb.

0.00 lb.

942.40 lb.

0.00 lb.

FIG. 030

PHD \_\_\_\_ Model: Fig. 030

PHD Model: Fig. 031

300 Manor Ave SW

Concord, NC 28025

Home2 Suites By Hilton

475 Hospitality Blvd.

BRACE INFORMATION

FASTENER INFORMATION

Greenwood, SC 29649

1 in.

Schedule 40

45° to 59°

0.421

1,310 lb.

Through-Bolt

w/ Fender Washer

5-1/2"

620 lb.

THE I	COMPANIES
P O BOX 1090 CONCORD, N.C. 28026	NC # 36018 / SC # FSC. 1078-B PH: 704-784-4218 FAX: 704-784-4405

P O BOX 458

PORTSMOUTH VA. 23705

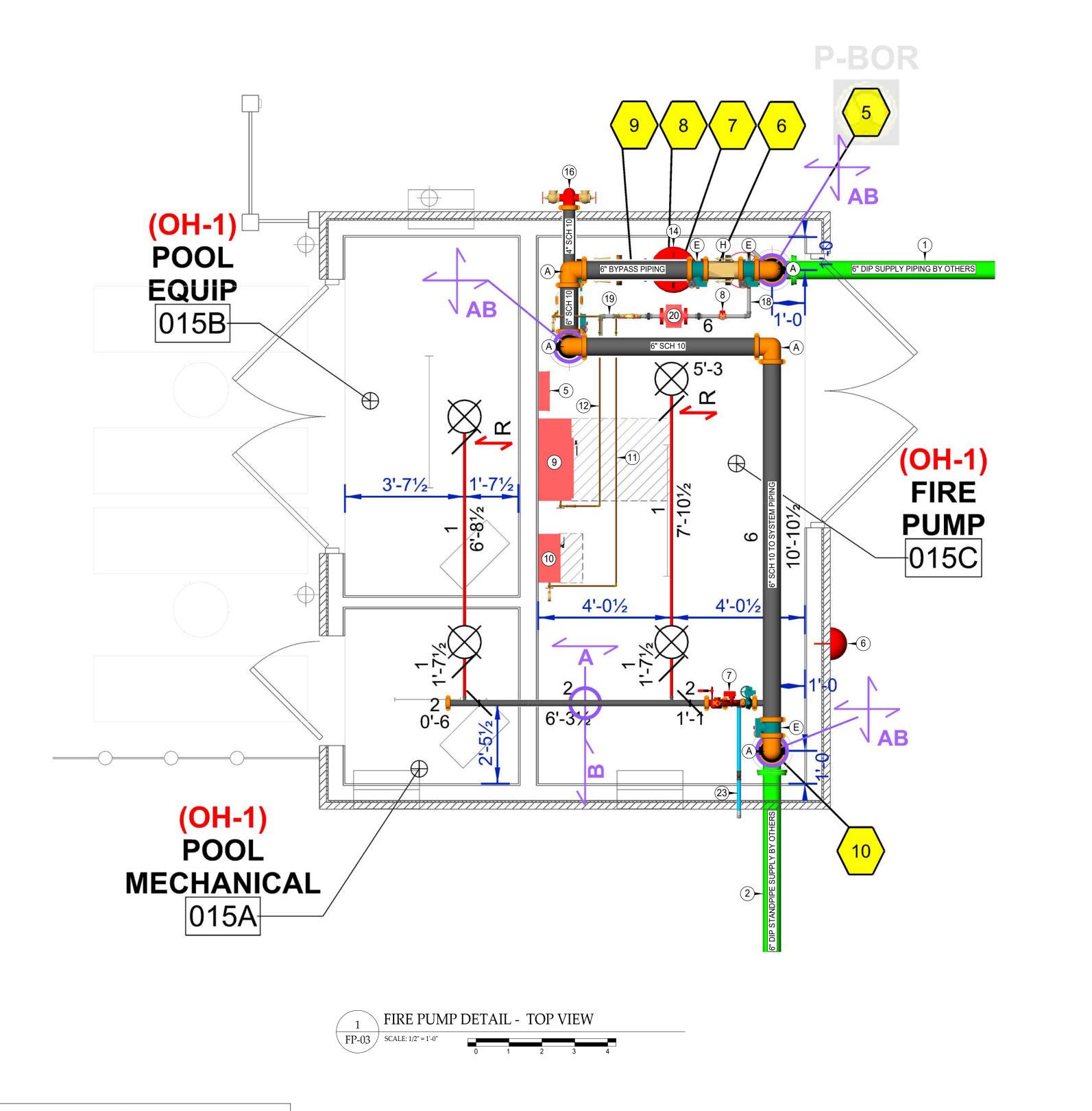
PH: 757-391-0050

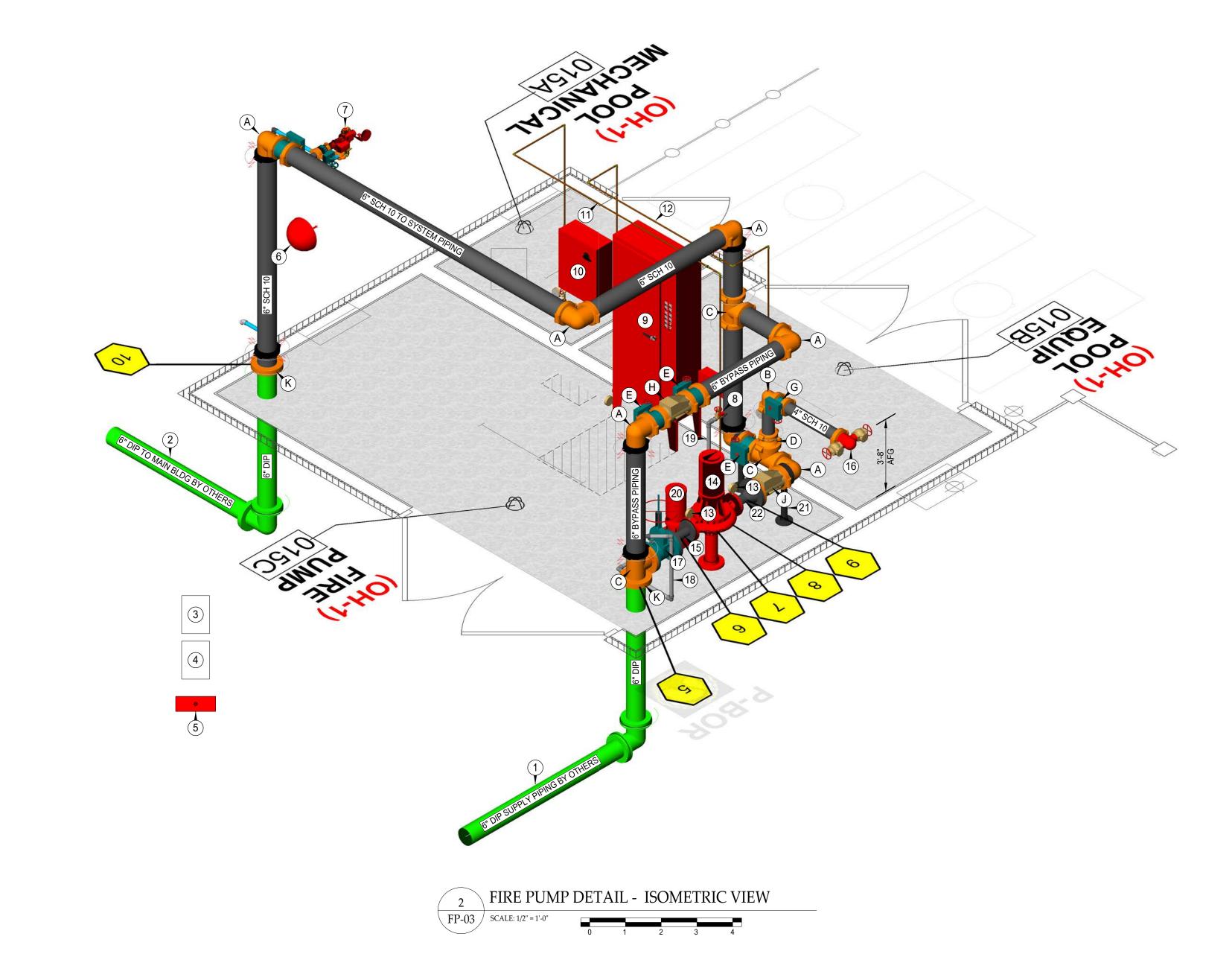
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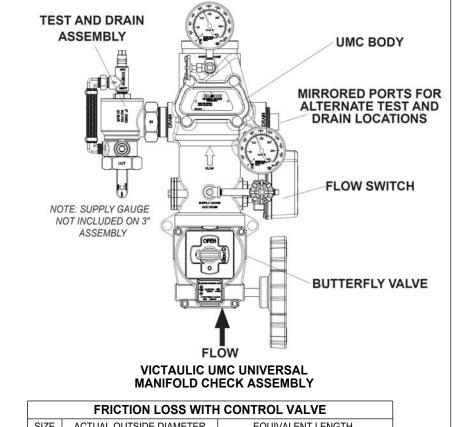
SUB	MITT	ALS	
B NAME:	4-Story Ho	uites by Hilton otel Construction ospitality Blvd. ood, SC 29649	
NTRACT WITH:		ampbell Company chester Avenue oe, NC 28110	
ONE: (704) 254-32	14		
AWING NAME: SE	ISMIC & GENERAL	. NOTES	
AWN BY: TWH			

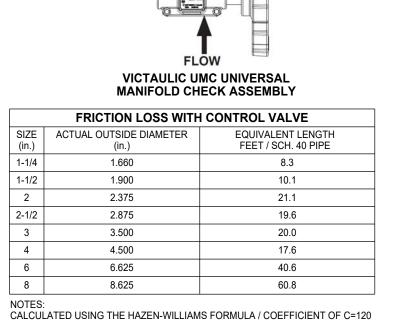
J: LLR / Greenwood FM DATE: 10/10/25 SCALE: AS NOTED CONTRACT NO.: CF0588

FP-02 of 08









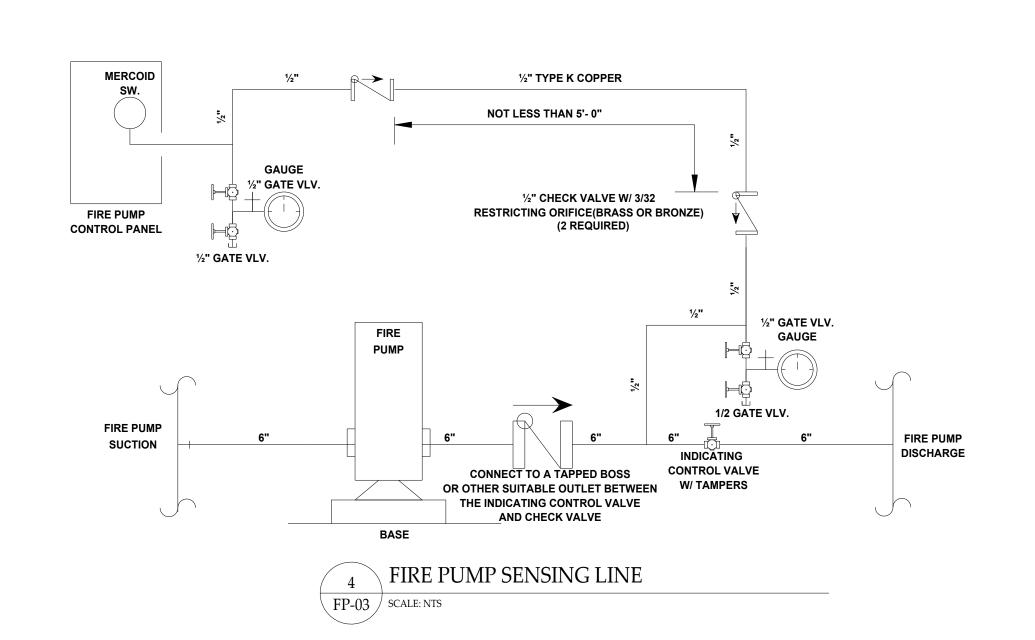
ZONE CONTROL ASSEMBLY DETAIL WITH CONTROL VALVE  $\backslash$  FP-03 / SCALE: N.T.S.

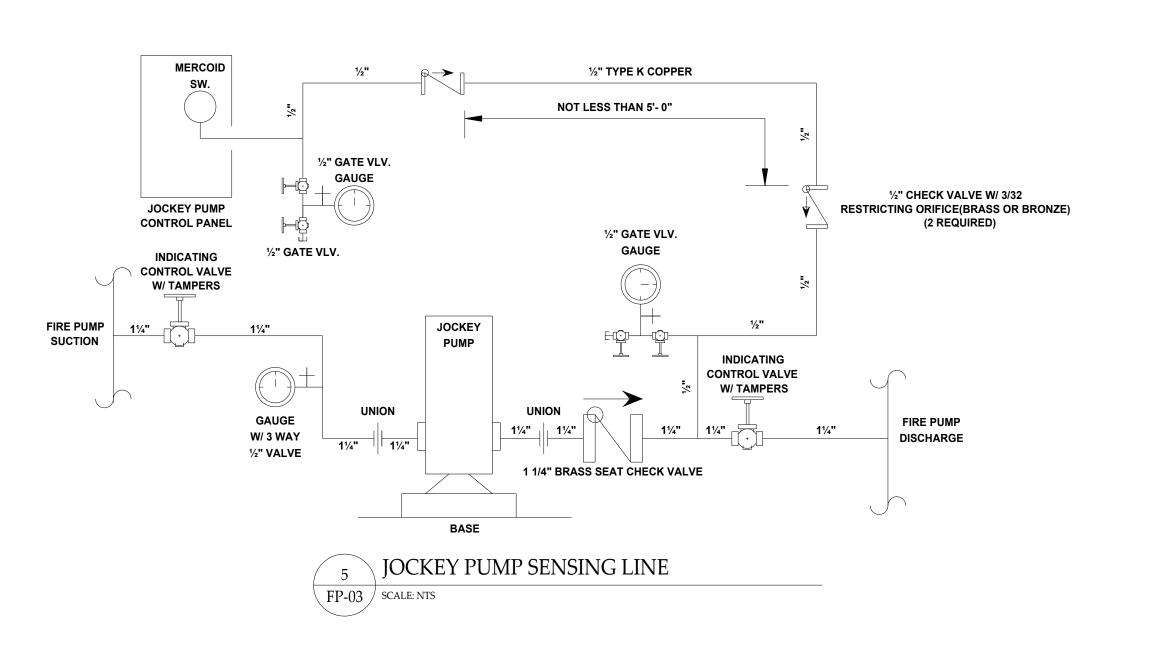
INCLUDES FRICTION LOSS ACROSS FLOW SWITCH AND CONTROL VALVE LOSS PROVIDED AT CHECK VALVE, SEE (CV) IN CALCULATION

2" ASSEMBLY USED FOR ZONE P (PUMP ROOM)

It is the sole responsibility of owner and owners representative

to insure that this building/buildings has proper heat and insulation





FIRE PUMP, JOCKEY PUMP AND CONTROLLER INFORMATION:

FIRE PUMP: SYNCROFLO MODEL: SD08LFK

SIZE: 3" x 3" VERTICAL INLINE GPM: 300

PSI: 60 MOTOR FRAME: 254JP

MOTOR: 20 HP, 3600 RPM, 208V/3Ph/60Hz, ODP ENCLOSURE FIRE PUMP CONTROLLER: FIRETROL MODEL: FTA1000-AM20H

TYPE: FULL VOLTAGE STARTING OPERATING VOLTAGE: 208V/3Ph/60Hz MAXIMUM MOTOR HORSEPOWER: 20 HP ENCLOSURE TYPE: NEMA 2

PRESSURE SWITCH / TRANSDUCER RANGE: 0-300 PSI LOAD TERMINALS TO MOTOR: 208-220V, 20HP MAX AUTOMATIC TRANSFER SWITCH: N/A

JOCKEY PUMP: WEBTROL MODEL: NV6B7FE3T SIZE: 11/4" x 11/4" GPM: 5

PSI: 70 MOTOR: 0.75 HP, 3500 RPM, 220V/3Ph/60Hz

JOCKEY PUMP CONTROLLER: FIRETROL

MODEL: FTA570F-AG034B TYPE: ACROSS THE LINE OPERATING VOLTAGE: 208V/3Ph/60Hz

ENCLOSURE TYPE: NEMA 2 PRESSURE SWITCH / TRANSDUCER RANGE: 0-300 PSI LOAD TERMINALS TO MOTOR: 208-220V, 20HP MAX

MAXIMUM MOTOR HORSEPOWER: 0.75 HP

(A) 6" GROOVED 90

B) 4" GROOVED 90

6" GROOVED TEE

D) 6" x 4" GROOVED REDUCER

H) 6" GROOVED CHECK VALVE

4" GROOVED CHECK VALVE

6" CHECK VALVE AT PUMP

(K) 6" FLANGE (1'-0" AFF) BY OTHERS

6" GROOVED BUTTERFLY VALVE W/ TAMPER

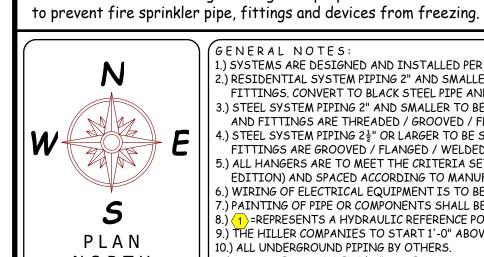
4" GROOVED BUTTERFLY VALVE W/ TAMPER

G) 4" NORMALLY CLOSED BUTTERFLY VALVE W/ TAMPER

## **PUMP ROOM INFORMATION:**

- (1) 6" DUCTILE IRON SUPPLY TO FLANGE 1'-0" AFF. (BY OTHERS, HILLER STARTS 1'-0" AFF)
- 2) 6" DUCTILE IRON FROM FLANGE 1'-0" AFF TO STANDPIPE IN MAIN BLDG
- 3) HYDRAULIC DESIGN INFORMATION SIGN LOCATED AT EACH RISER PER NFPA 13; 25.5.1 (4) A GENERAL INFORMATION SIGN SHALL BE INSTALLED PER NFPA 13; 25.6.1
- (5) 12 COUNT HEAD BOX
- (6) 6" 120V ELECTRIC BELL MOUNTED OUTSIDE PUMP ROOM
- 7) 2" VICTAULIC UMC CHECK ASSEMBLY FOR ZONE P SYSTEM (SEE DETAIL 3/FP-03)
- (8) 11/4" BUTTERBALL VALVE W/ TAMPER SWITCH (9) FIRE PUMP CONTROLLER (SEE NOTES THIS SHEET)
- 10) JOCKEY PUMP CONTROLLER (SEE NOTES THIS SHEET) PRESSURE SENSING LINE TO JOCKEY PUMP CONTROLLER (SEE DETAIL THIS SHEET)
- PRESSURE SENSING LINE TO FIRE PUMP CONTROLLER (SEE DETAIL THIS SHEET) (3) PUMP SUCTION AND DISCHARGE PRESSURE GAUGE W/ 3-WAY VALVE (TYPICAL)
- (14) VERTICAL INLINE FIRE PUMP RATED AT 300 GPM @ 60 PSI (SEE NOTES THIS SHEET) 15) 6" x 3" ECCENTRIC PUMP REDUCER
- (16) CLA-VAL TH SERIES (4" (2) x 21/2") GROOVED FIRE PUMP TEST HEADER
- W/ 21/2" HOSE ANGLE VALVES, CAPS AND CHAINS (OR EQUAL)
- (17) 6" OS&Y W/ TAMPER (18) 11/4" LINE TO JOCKEY PUMP
- (19) 11/4" LINE FROM JOCKEY PUMP
- 20) JOCKEY PUMP (SEE NOTES THIS SHEET) (21) PIPE STAND/HANGER SUPPORT (TYPICAL
- (22) 3" x 6" FLANGED PUMP INCREASER (23) PUMP ROOM SYSTEM DRAIN TO DISCHARGE AT 12" AGF.

# **SUBMITTALS**



1.) SYSTEMS ARE DESIGNED AND INSTALLED PER NFPA 13 (2019 EDITION) 2.) RESIDENTIAL SYSTEM PIPING 2" AND SMALLER TO BE CPVC WITH CPVC 3.) STEEL SYSTEM PIPING 2" AND SMALLER TO BE SCH. 40 BLACK STEEL PIPE AND FITTINGS ARE THREADED / GROOVED / FLANGED / WELDED. 4.) STEEL SYSTEM PIPING 2½" OR LARGER TO BE SCH. 10 BLACK STEEL PIPE AND FITTINGS ARE GROOVED / FLANGED / WELDED. 5.) ALL HANGERS ARE TO MEET THE CRITERIA SET FORTH BY NFPA 13 (2019 EDITION) AND SPACED ACCORDING TO MANUFACTURES SPECIFICATIONS. 6.) WIRING OF ELECTRICAL EQUIPMENT IS TO BE BY OTHERS.

FITTINGS. CONVERT TO BLACK STEEL PIPE AND FITTINGS WHERE EXPOSED. | RESIDUAL PRESSURE TEST TAKEN BY 7.) PAINTING OF PIPE OR COMPONENTS SHALL BE BY OTHERS. TESTED BY - MIKE PROCTOR 8.) 1 = REPRESENTS A HYDRAULIC REFERENCE POINT. WITNESSED BY - RUSSELL HOLLEY 9.) THE HILLER COMPANIES TO START 1'-0" ABOVE FINISHED FLOOR. CONTACT EMAIL - RHOLLEY@GREENWOODCPW.COM 10.) ALL UNDERGROUND PIPING BY OTHERS. HYDRANT LOCATION - SEE FP-01 11.) SPRINKLERS LOCATED 7'-6" OR LESS FROM FLOOR TO BE PROTECTED

(SEAL: WATER SUPPLY INFORMATION 300 @ 60 09/30/2025 ELECTRICAL REQ.5 HYDRANT LOCATION @ TEST NODE (SEE SITE PLAN) NODE #1 (803) 545-3881

SIZE GPM @ PSI

1160 TYPE OF DRIVER

GREENWOOD CPW

NICET REVIEW STAMP JUAN OCHOA NICET #139445 LEVEL IV

WATER BASED SYSTEMS LAYOUT VALID THROUGH 01/01/2027

Max Spacing 130ft2 OH / 225ft2 LH Exposed 130ft2 OH / 225ft2 LH 130ft<sup>2</sup> OH / 225ft<sup>2</sup> LH White Coverplate 18 x 18 / 324ft<sup>2</sup> Connect Chute Head 100ft2 OH / 196ft2 LH 100ft<sup>2</sup> OH / 196ft<sup>2</sup> LH 18 x 18 / 324ft<sup>2</sup> Chrome Res Esc

Sprinkler Legend - Total Project

NO. DATE REVISION DISCRIPTION



FAX: 704-784-4405

PH: 757-391-0050

FAX: 757-391-0098

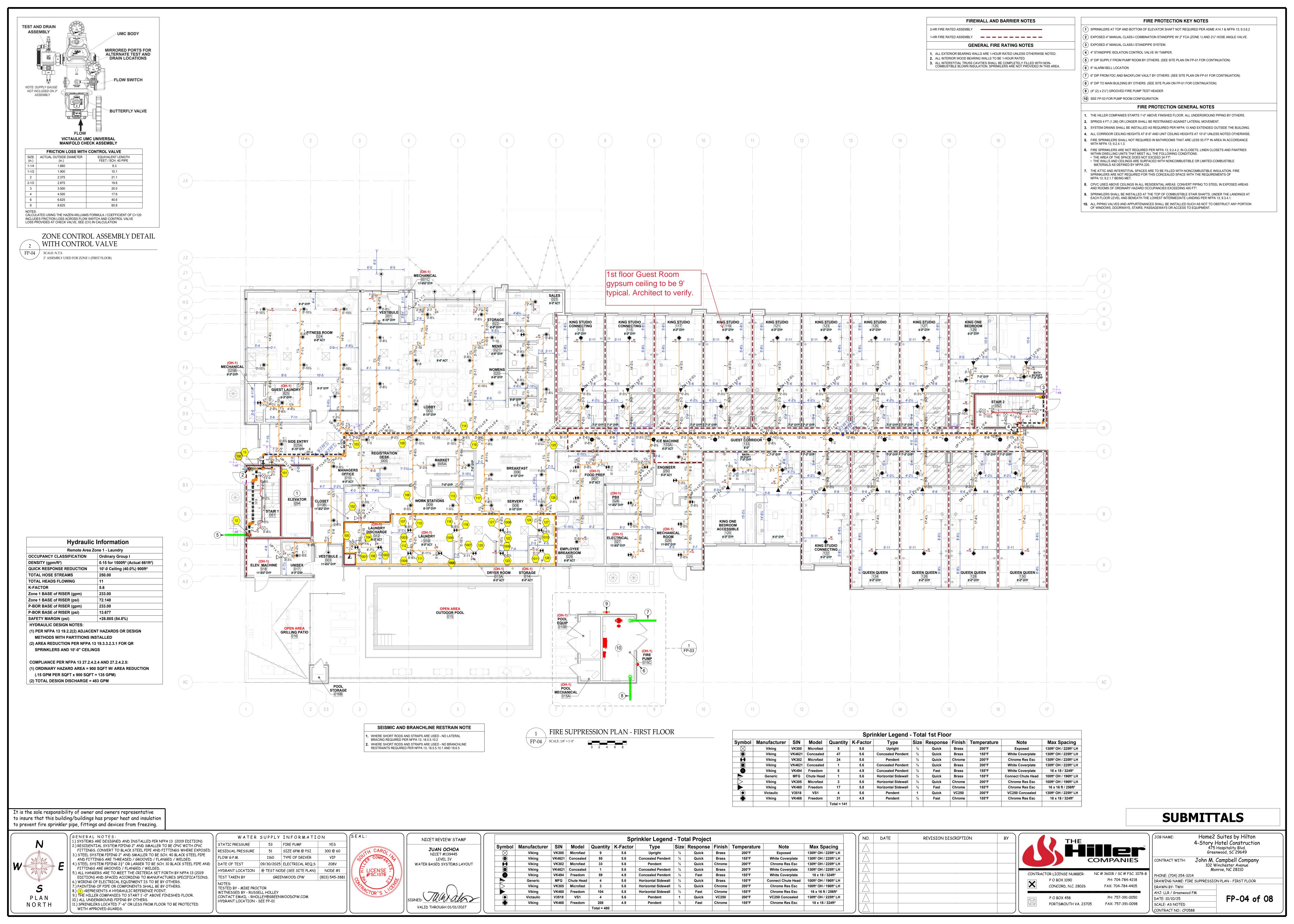
CONCORD, N.C. 28026

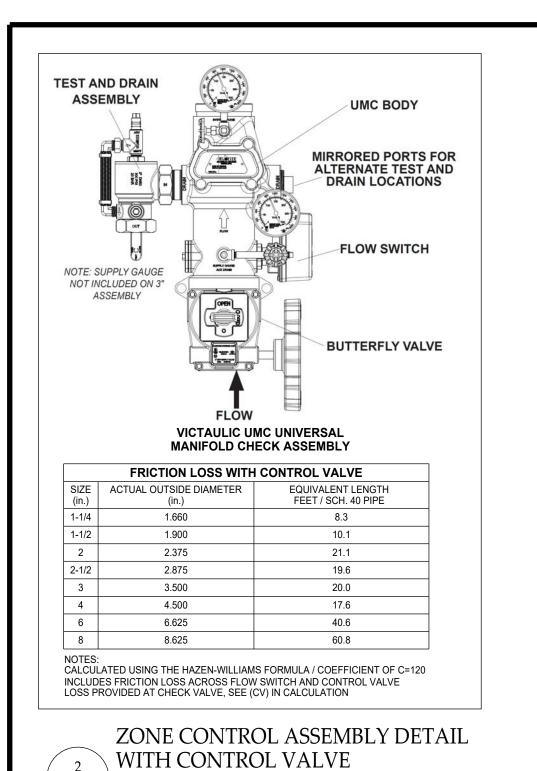
PORTSMOUTH VA. 23705

P O BOX 458

Home 2 Suites by Hilton 4-Story Hotel Construction 475 Hospitality Blvd. Greenwood, SC 29649 CONTRACT WITH: John M. Campbell Company 102 Winchester Avenue Monroe, NC 28110 PHONE: (704) 254-3214 DRAWING NAME: FIRE PUMP DETAILS DRAWN BY: TWH

AHJ: LLR / Greenwood FM FP-03 of 08 DATE: 10/10/25 SCALE: AS NOTED CONTRACT NO.: CF0588





2" ASSEMBLY USED FOR ZONE 2 (SECOND FLOOR)

FIREWALL AND BARRIER NOTES

2-HR FIRE RATED ASSEMBLY

1-HR FIRE RATED ASSEMBLY — — — — — — — — —

GENERAL FIRE RATING NOTES

1. ALL EXTERIOR BEARING WALLS ARE 1-HOUR RATED UNLESS OTHERWISE NOTED. 2. ALL INTERIOR WOOD BEARING WALLS TO BE 1-HOUR RATED. 3. ALL INTERSTITIAL TRUSS CAVITIES SHALL BE COMPLETELY FILLED WITH NON-COMBUSTIBLE BLOWN INSULATION. SPRINKLERS ARE NOT PROVIDED IN THIS AREA.

Hydraulic Information							
Remote Area Zone 2 -	King One Bedroom 229						
OCCUPANCY CLASSIFICATION	Residential						
DENSITY (gpm/ft²)	0.10 for 484ft² (Actual 484ft²)						
TOTAL HOSE STREAMS	100.00						
TOTAL HEADS FLOWING	4						
K-FACTOR	5.8, 4.9						
P-BOR BASE of RISER (gpm)	86.42						
P-BOR BASE of RISER (psi)	16.991						
Zone 2 BASE of RISER (gpm)	86.42						
Zone 2 BASE of RISER (psi)	76.556						
SAFETY MARGIN (psi)	+26.278 (49.6%)						
HYDRAULIC DESIGN NOTES:	·						
<b>USE OF VK468 RESIDENTIAL PEN</b>	DENT HEADS						
Max Spacing: 18x18							
Minimum Flaur 47 CDM							

Minimum Flow: 17 GPM

USE OF VK460 RESIDENTIAL SIDEWALL HEADS Max Spacing: 16x16 Minimum Flow: 20 GPM

Minimum Pressure: 12.0 PSI

Minimum Pressure: 11.9 PSI

FIRE PROTECTION KEY NOTES

(1) SPRINKLERS AT TOP AND BOTTOM OF ELEVATOR SHAFT NOT REQUIRED PER ASME A14.1 & NFPA 13; 9.3.6.2

(2) EXPOSED 4" MANUAL CLASS-I COMBINATION STANDPIPE W/ 2" FCA (ZONE 1) AND 2½" HOSE ANGLE VALVE. (3) EXPOSED 4" MANUAL CLASS-I STANDPIPE SYSTEM.

FIRE PROTECTION GENERAL NOTES

1. THE HILLER COMPANIES STARTS 1'-0" ABOVE FINISHED FLOOR. ALL UNDERGROUND PIPING BY OTHERS.

- 2. SPRIGS 4 FT (1.2M) OR LONGER SHALL BE RESTRAINED AGAINST LATERAL MOVEMENT. 3. SYSTEM DRAINS SHALL BE INSTALLED AS REQUIRED PER NFPA 13 AND EXTENDED OUTSIDE THE BUILDING.
- 4. ALL CORRIDOR CEILING HEIGHTS AT 8'-6" AND UNIT CEILING HEIGHTS AT 10'-0" UNLESS NOTED OTHERWISE.
- 5. FIRE SPRINKLERS SHALL NOT REQUIRED IN BATHROOMS THAT ARE LESS 55 FT<sup>2</sup> IN AREA IN ACCORDANCE **6.** FIRE SPRINKLERS ARE NOT REQUIRED PER NFPA 13; 9.2.4.2, IN CLOSETS, LINEN CLOSETS AND PANTRIES
- WITHIN DWELLING UNITS THAT MEET ALL THE FOLLOWING CONDITIONS:

   THE AREA OF THE SPACE DOES NOT EXCEED 24 FT<sup>2</sup>. • THE WALLS AND CEILINGS ARE SURFACED WITH NONCOMBUSTIBLE OR LIMITED-COMBUSTIBLE MATERIALS AS DEFINED BY NFPA 220. 7. THE ATTIC AND INTERSTITIAL SPACES ARE TO BE FILLED WITH NONCOMBUSTIBLE INSULATION. FIRE
- SPRINKLERS ARE NOT REQUIRED FOR THIS CONCEALED SPACE WITH THE REQUIREMENTS OF NFPA 13; 9.2.1.7 BEING MET.
- 8. CPVC USED ABOVE CEILINGS IN ALL RESIDENTIAL AREAS. CONVERT PIPING TO STEEL IN EXPOSED AREAS AND ROOMS OF ORDINARY HAZARD OCCUPANCIES EXCEEDING 400 FT2.
- 9. SPRINKLERS SHALL BE INSTALLED AT THE TOP OF COMBUSTIBLE STAIR SHAFTS, UNDER THE LANDINGS AT EACH FLOOR LEVEL AND BENEATH THE LOWEST INTERMEDIATE LANDING PER NFPA 13; 9.3.4.1.

10. ALL PIPING VALVES AND APPURTENANCES SHALL BE INSTALLED SUCH AS NOT TO OBSTRUCT ANY PORTION OF WINDOWS, DOORWAYS, STAIRS, PASSAGEWAYS OR ACCESS TO EQUIPMENT.

QUEEN QUEEN QUEEN QUEEN STUDIO ACCESSIBLE ELEVATOR | **ELEVATOR ACCESSIBLE** 8'-0" GYP QUEEN QUEEN QUEEN QUEEN 🐱 **™** QUEEN QUEEN QUEEN QUEEN 🐱

It is the sole responsibility of owner and owners representative to insure that this building/buildings has proper heat and insulation

NORTH

to prevent fire sprinkler pipe, fittings and devices from freezing. GENERAL NOTES:

10.) ALL UNDERGROUND PIPING BY OTHERS.

WITH APPROVED GUARDS.

1.) SYSTEMS ARE DESIGNED AND INSTALLED PER NFPA 13 (2019 EDITION) 2.) RESIDENTIAL SYSTEM PIPING 2" AND SMALLER TO BE CPVC WITH CPVC 3.) STEEL SYSTEM PIPING 2" AND SMALLER TO BE SCH. 40 BLACK STEEL PIPE AND FITTINGS ARE THREADED / GROOVED / FLANGED / WELDED. 4.) STEEL SYSTEM PIPING  $2\frac{1}{2}$ " OR LARGER TO BE SCH. 10 BLACK STEEL PIPE AND FITTINGS ARE GROOVED / FLANGED / WELDED. 5.) ALL HANGERS ARE TO MEET THE CRITERIA SET FORTH BY NFPA 13 (2019 6.) WIRING OF ELECTRICAL EQUIPMENT IS TO BE BY OTHERS.

11.) SPRINKLERS LOCATED 7'-6" OR LESS FROM FLOOR TO BE PROTECTED

FITTINGS. CONVERT TO BLACK STEEL PIPE AND FITTINGS WHERE EXPOSED. RESIDUAL PRESSURE FLOW G.P.M. DATE OF TEST EDITION) AND SPACED ACCORDING TO MANUFACTURES SPECIFICATIONS. 7.) PAINTING OF PIPE OR COMPONENTS SHALL BE BY OTHERS. 8.) 1 = REPRESENTS A HYDRAULIC REFERENCE POINT. 9.) THE HILLER COMPANIES TO START 1'-0" ABOVE FINISHED FLOOR.

(SEAL: WATER SUPPLY INFORMATION STATIC PRESSURE FIRE PUMP SIZE GPM @ PSI 300 @ 60 1160 TYPE OF DRIVER 09/30/2025 ELECTRICAL REQ.S 208V HYDRANT LOCATION @ TEST NODE (SEE SITE PLAN) NODE #1 TEST TAKEN BY (803) 545-3881 GREENWOOD CPW TESTED BY - MIKE PROCTOR WITNESSED BY - RUSSELL HOLLEY CONTACT EMAIL - RHOLLEY@GREENWOODCPW.COM HYDRANT LOCATION - SEE FP-01

NICET REVIEW STAMP JUAN OCHOA NICET #139445 LEVEL IV WATER BASED SYSTEMS LA VALID THROUGH 01/01/202

SEISMIC AND BRANCHLINE RESTRAIN NOTE

. WHERE SHORT RODS AND STRAPS ARE USED - NO LATERAL

2. WHERE SHORT RODS AND STRAPS ARE USED - NO BRANCHLINE RESTRAINTS REQUIRED PER NFPA 13; 18.5.5.10.1 AND 18.6.5

BRACING REQUIRED PER NFPA 13; 18.5.5.10.2

						Spr	inkler Legend	- Tot	al Project				
	Symbol	Manufacturer	SIN	Model	Quantity	K-Factor	Type	Size	Response	Finish	Temperature	Note	Max Spacing
	$\boxtimes$	Viking	VK300	Microfast	9	5.6	Upright	1/2	Quick	Brass	200°F	Exposed	130ft <sup>2</sup> OH / 225ft <sup>2</sup> LH
		Viking	VK4621	Concealed	55	5.6	Concealed Pendent	1/2	Quick	Brass	155°F	White Coverplate	130ft <sup>2</sup> OH / 225ft <sup>2</sup> LH
UT	Ø	Viking	VK302	Microfast	33	5.6	Pendent	1/2	Quick	Chrome	200°F	Chrome Res Esc	130ft <sup>2</sup> OH / 225ft <sup>2</sup> LH
- 11		Viking	VK4621	Concealed	1	5.6	Concealed Pendent	1/2	Quick	Brass	200°F	White Coverplate	130ft <sup>2</sup> OH / 225ft <sup>2</sup> LH
		Viking	VK494	Freedom	59	4.9	Concealed Pendent	1/2	Fast	Brass	155°F	White Coverplate	18 x 18 / 324ft <sup>2</sup>
		Generic	MFG	Chute Head	4	5.6	Horizontal Sidewall	1/2	Quick	Brass	155°F	Connect Chute Head	100ft <sup>2</sup> OH / 196ft <sup>2</sup> LH
		Viking	VK305	Microfast	3	5.6	Horizontal Sidewall	1/2	Quick	Chrome	200°F	Chrome Res Esc	100ft <sup>2</sup> OH / 196ft <sup>2</sup> LH
- 11		Viking	VK460	Freedom	104	5.8	Horizontal Sidewall	1/2	Fast	Chrome	155°F	Chrome Res Esc	16 x 16 ft / 256ft <sup>2</sup>
<b>&gt;</b>	•	Victaulic	V3518	VS1	4	5.6	Pendent	1	Quick	VC250	200°F	VC250 Concealed	130ft <sup>2</sup> OH / 225ft <sup>2</sup> LH
<u> </u>		Viking	VK468	Freedom	208	4.9	Pendent	1/2	Fast	Chrome	155°F	Chrome Res Esc	18 x 18 / 324ft <sup>2</sup>
· ][					Total = 480								

1 FIRE SUPPRESSION PLAN - SECOND FLOOR

FP-05 SCALE: 1/8" = 1'-0"

10.	DATE	REVISION DISCRIPTION	ВУ	
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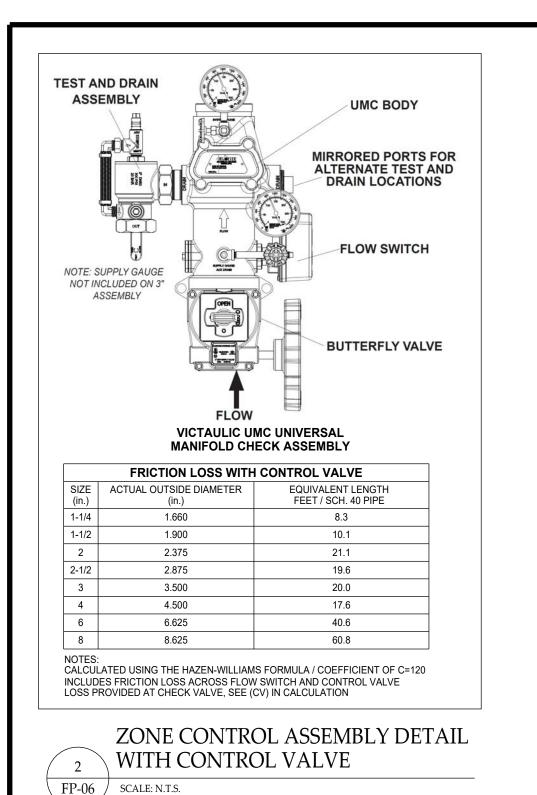
White Coverplate 130ft<sup>2</sup> OH / 225ft<sup>2</sup> LH

**SUBMITTALS** Home 2 Suites by Hilton 4-Story Hotel Construction 475 Hospitality Blvd. Greenwood, SC 29649 CONTRACT WITH: John M. Campbell Company 102 Winchester Avenue Monroe, NC 28110 DRAWING NAME: FIRE SUPPRESSION PLAN - SECOND FLOOR FP-05 of 08

PHONE: (704) 254-3214 DRAWN BY: TWH AHJ: LLR / Greenwood FM PH: 757-391-0050 P O BOX 458 DATE: 10/10/25 PORTSMOUTH VA. 23705 FAX: 757-391-0098

SCALE: AS NOTED

CONTRACT NO.: CF0588



2" ASSEMBLY USED FOR ZONE 3 (THIRD FLOOR)



2-HR FIRE RATED ASSEMBLY

### 1-HR FIRE RATED ASSEMBLY — — — — — — — — —

**GENERAL FIRE RATING NOTES** 

1. ALL EXTERIOR BEARING WALLS ARE 1-HOUR RATED UNLESS OTHERWISE NOTED. 2. ALL INTERIOR WOOD BEARING WALLS TO BE 1-HOUR RATED.

1. THE HILLER COMPANIES STARTS 1'-0" ABOVE FINISHED FLOOR. ALL UNDERGROUND PIPING BY OTHERS. 3. ALL INTERSTITIAL TRUSS CAVITIES SHALL BE COMPLETELY FILLED WITH NON-COMBUSTIBLE BLOWN INSULATION. SPRINKLERS ARE NOT PROVIDED IN THIS AREA. 2. SPRIGS 4 FT (1.2M) OR LONGER SHALL BE RESTRAINED AGAINST LATERAL MOVEMENT.

3. SYSTEM DRAINS SHALL BE INSTALLED AS REQUIRED PER NFPA 13 AND EXTENDED OUTSIDE THE BUILDING. 4. ALL CORRIDOR CEILING HEIGHTS AT 8'-6" AND UNIT CEILING HEIGHTS AT 10'-0" UNLESS NOTED OTHERWISE. 5. FIRE SPRINKLERS SHALL NOT REQUIRED IN BATHROOMS THAT ARE LESS 55 FT<sup>2</sup> IN AREA IN ACCORDANCE

(3) EXPOSED 4" MANUAL CLASS-I STANDPIPE SYSTEM.

**6.** FIRE SPRINKLERS ARE NOT REQUIRED PER NFPA 13; 9.2.4.2, IN CLOSETS, LINEN CLOSETS AND PANTRIES WITHIN DWELLING UNITS THAT MEET ALL THE FOLLOWING CONDITIONS:

• THE AREA OF THE SPACE DOES NOT EXCEED 24 FT². • THE WALLS AND CEILINGS ARE SURFACED WITH NONCOMBUSTIBLE OR LIMITED-COMBUSTIBLE MATERIALS AS DEFINED BY NFPA 220.

THE ATTIC AND INTERSTITIAL SPACES ARE TO BE FILLED WITH NONCOMBUSTIBLE INSULATION. FIRE SPRINKLERS ARE NOT REQUIRED FOR THIS CONCEALED SPACE WITH THE REQUIREMENTS OF NFPA 13; 9.2.1.7 BEING MET.

FIRE PROTECTION KEY NOTES

FIRE PROTECTION GENERAL NOTES

(1) SPRINKLERS AT TOP AND BOTTOM OF ELEVATOR SHAFT NOT REQUIRED PER ASME A14.1 & NFPA 13; 9.3.6.2

(2) EXPOSED 4" MANUAL CLASS-I COMBINATION STANDPIPE W/ 2" FCA (ZONE 1) AND 2½" HOSE ANGLE VALVE.

8. CPVC USED ABOVE CEILINGS IN ALL RESIDENTIAL AREAS. CONVERT PIPING TO STEEL IN EXPOSED AREAS AND ROOMS OF ORDINARY HAZARD OCCUPANCIES EXCEEDING 400 FT2. 9. SPRINKLERS SHALL BE INSTALLED AT THE TOP OF COMBUSTIBLE STAIR SHAFTS, UNDER THE LANDINGS AT EACH FLOOR LEVEL AND BENEATH THE LOWEST INTERMEDIATE LANDING PER NFPA 13; 9.3.4.1.

10. ALL PIPING VALVES AND APPURTENANCES SHALL BE INSTALLED SUCH AS NOT TO OBSTRUCT ANY PORTION OF WINDOWS, DOORWAYS, STAIRS, PASSAGEWAYS OR ACCESS TO EQUIPMENT.

Remote Area Zone 3 - King One Bedroom 329 OCCUPANCY CLASSIFICATION Residential DENSITY (gpm/ft²) 0.10 for 484ft<sup>2</sup> (Actual 484ft<sup>2</sup>) TOTAL HOSE STREAMS 100.00 TOTAL HEADS FLOWING K-FACTOR 5.8, 4.9 P-BOR BASE of RISER (gpm) 86.42 P-BOR BASE of RISER (psi) Zone 2 BASE of RISER (gpm) Zone 2 BASE of RISER (psi) 86.42 Zone 3 BASE of RISER (gpm) Zone 3 BASE of RISER (psi) 76.556 SAFETY MARGIN (psi) +21.486 (40.6%) **HYDRAULIC DESIGN NOTES: USE OF VK468 RESIDENTIAL PENDENT HEADS** 

Hydraulic Information

Max Spacing: 18x18 Minimum Flow: 17 GPM Minimum Pressure: 12.0 PSI

**USE OF VK460 RESIDENTIAL SIDEWALL HEADS** Max Spacing: 16x16

Minimum Flow: 20 GPM

Minimum Pressure: 11.9 PSI

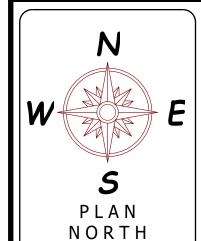
QUEEN QUEEN QUEEN QUEEN STUDIO ACCESSIBLE ELEVATOR | **ELEVATOR ACCESSIBLE** HOUSE KEEPING QUEEN QUEEN QUEEN QUEEN 🐱 **™** QUEEN QUEEN QUEEN QUEEN &

> SEISMIC AND BRANCHLINE RESTRAIN NOTE . WHERE SHORT RODS AND STRAPS ARE USED - NO LATERAL BRACING REQUIRED PER NFPA 13; 18.5.5.10.2 2. WHERE SHORT RODS AND STRAPS ARE USED - NO BRANCHLINE RESTRAINTS REQUIRED PER NFPA 13; 18.5.5.10.1 AND 18.6.5

1 FIRE SUPPRESSION PLAN - THIRD FLOOR FP-06 SCALE: 1/8" = 1'-0"

	Sprinkler Legend - Total 3rd Floor											
Symbol	Manufacturer	SIN	Model	Quantity	K-Factor	Type	Size	Response	Finish	Temperature	Note	Max Spacing
	Viking	VK494	Freedom	17	4.9	Concealed Pendent	1/2	Fast	Brass	155°F	White Coverplate	18 x 18 / 324ft²
	Viking	VK460	Freedom	29	5.8	Horizontal Sidewall	1/2	Fast	Chrome	155°F	Chrome Res Esc	16 x 16 ft / 256ft²
	Viking	VK468	Freedom	59	4.9	Pendent	1/2	Fast	Chrome	155°F	Chrome Res Esc	18 x 18 / 324ft²
<b>(</b>	Viking	VK4621	Concealed	2	5.6	Concealed Pendent	1/2	Quick	Brass	155°F	White Coverplate	130ft² OH / 225ft² LH
•	Viking	VK302	Microfast	3	5.6	Pendent	1/2	Quick	Chrome	200°F	Chrome Res Esc	130ft² OH / 225ft² LH
	Generic	MFG	Chute Head	1	5.6	Horizontal Sidewall	1/2	Quick	Brass	155°F	Connect Chute Head	100ft² OH / 196ft² LH
-				Total = 111								

It is the sole responsibility of owner and owners representative to insure that this building/buildings has proper heat and insulation to prevent fire sprinkler pipe, fittings and devices from freezing.



GENERAL NOTES: 1.) SYSTEMS ARE DESIGNED AND INSTALLED PER NFPA 13 (2019 EDITION) 2.) RESIDENTIAL SYSTEM PIPING 2" AND SMALLER TO BE CPVC WITH CPVC FITTINGS. CONVERT TO BLACK STEEL PIPE AND FITTINGS WHERE EXPOSED. RESIDUAL PRESSURE 3.) STEEL SYSTEM PIPING 2" AND SMALLER TO BE SCH. 40 BLACK STEEL PIPE AND FITTINGS ARE THREADED / GROOVED / FLANGED / WELDED. FITTINGS ARE GROOVED / FLANGED / WELDED. 5.) ALL HANGERS ARE TO MEET THE CRITERIA SET FORTH BY NFPA 13 (2019

4.) STEEL SYSTEM PIPING  $2\frac{1}{2}$ " OR LARGER TO BE SCH. 10 BLACK STEEL PIPE AND EDITION) AND SPACED ACCORDING TO MANUFACTURES SPECIFICATIONS. 6.) WIRING OF ELECTRICAL EQUIPMENT IS TO BE BY OTHERS. 7.) PAINTING OF PIPE OR COMPONENTS SHALL BE BY OTHERS. 8.) 1 = REPRESENTS A HYDRAULIC REFERENCE POINT. 9.) THE HILLER COMPANIES TO START 1'-0" ABOVE FINISHED FLOOR. 10.) ALL UNDERGROUND PIPING BY OTHERS. 11.) SPRINKLERS LOCATED 7'-6" OR LESS FROM FLOOR TO BE PROTECTED WITH APPROVED GUARDS.

WATER SUPPLY INFORMATION STATIC PRESSURE FIRE PUMP SIZE GPM @ PSI 300 @ 60 FLOW G.P.M. 1160 TYPE OF DRIVER DATE OF TEST 09/30/2025 ELECTRICAL REQ.S 208V HYDRANT LOCATION @ TEST NODE (SEE SITE PLAN) NODE #1 TEST TAKEN BY (803) 545-3881 GREENWOOD CPW TESTED BY - MIKE PROCTOR WITNESSED BY - RUSSELL HOLLEY CONTACT EMAIL - RHOLLEY@GREENWOODCPW.COM HYDRANT LOCATION - SEE FP-01



Symbol	Manufacturer	SIN	Model	Quantity	K-Factor	Type	Size	Response	Finish	Temperature	Note	Max Spacing
$\boxtimes$	Viking	VK300	Microfast	9	5.6	Upright	1/2	Quick	Brass	200°F	Exposed	130ft² OH / 225ft² LH
	Viking	VK4621	Concealed	55	5.6	Concealed Pendent	1/2	Quick	Brass	155°F	White Coverplate	130ft² OH / 225ft² LH
Ø	Viking	VK302	Microfast	33	5.6	Pendent	1/2	Quick	Chrome	200°F	Chrome Res Esc	130ft² OH / 225ft² LH
	Viking	VK4621	Concealed	1	5.6	Concealed Pendent	1/2	Quick	Brass	200°F	White Coverplate	130ft² OH / 225ft² LH
	Viking	VK494	Freedom	59	4.9	Concealed Pendent	1/2	Fast	Brass	155°F	White Coverplate	18 x 18 / 324ft <sup>2</sup>
	Generic	MFG	Chute Head	4	5.6	Horizontal Sidewall	1/2	Quick	Brass	155°F	Connect Chute Head	100ft <sup>2</sup> OH / 196ft <sup>2</sup> LH
	Viking	VK305	Microfast	3	5.6	Horizontal Sidewall	1/2	Quick	Chrome	200°F	Chrome Res Esc	100ft <sup>2</sup> OH / 196ft <sup>2</sup> LH
	Viking	VK460	Freedom	104	5.8	Horizontal Sidewall	1/2	Fast	Chrome	155°F	Chrome Res Esc	16 x 16 ft / 256ft <sup>2</sup>
•	Victaulic	V3518	VS1	4	5.6	Pendent	1	Quick	VC250	200°F	VC250 Concealed	130ft² OH / 225ft² LH
	Viking	VK468	Freedom	208	4.9	Pendent	1/2	Fast	Chrome	155°F	Chrome Res Esc	18 x 18 / 324ft²
				Total = 480								

Sprinkler Legend - Total Project

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401					
CON					

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CONTRACT	OR LICENSE NUMBER:	NC # 36018 / SC # FSC. 1078-B	
	P O BOX 1090	PH: 704-784-4218	F
	CONCORD, N.C. 28026	FAX: 704-784-4405	H

P O BOX 458

PORTSMOUTH VA. 23705

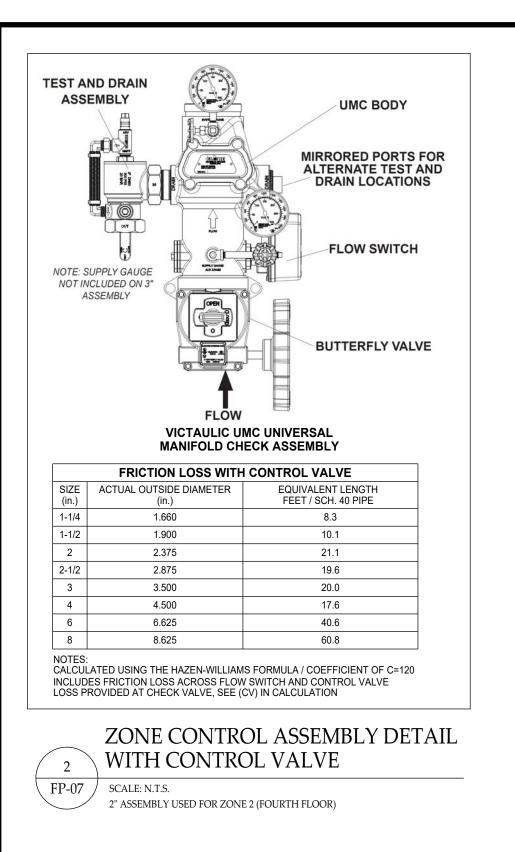
PH: 757-391-0050

FAX: 757-391-0098

**SUBMITTALS** Home 2 Suites by Hilton 4-Story Hotel Construction
475 Hospitality Blvd. Greenwood, SC 29649 CONTRACT WITH: John M. Campbell Company 102 Winchester Avenue Monroe, NC 28110 PHONE: (704) 254-3214 DRAWING NAME: FIRE SUPPRESSION PLAN - THIRD FLOOR DRAWN BY: TWH

AHJ: LLR / Greenwood FM FP-06 of 08 DATE: 10/10/25 SCALE: AS NOTED

CONTRACT NO.: CF0588





2-HR FIRE RATED ASSEMBLY

1-HR FIRE RATED ASSEMBLY — — — — — — — — —

**GENERAL FIRE RATING NOTES** 

1. ALL EXTERIOR BEARING WALLS ARE 1-HOUR RATED UNLESS OTHERWISE NOTED. 2. ALL INTERIOR WOOD BEARING WALLS TO BE 1-HOUR RATED. 3. ALL INTERSTITIAL TRUSS CAVITIES SHALL BE COMPLETELY FILLED WITH NON-COMBUSTIBLE BLOWN INSULATION. SPRINKLERS ARE NOT PROVIDED IN THIS AREA.

Hydraulic	Information	Hydraulic li
Remote Area Zone 4 -	King One Bedroom 429	Remote Area Zone 4 -
CUPANCY CLASSIFICATION Residential		OCCUPANCY CLASSIFICATION
DENSITY (gpm/ft²)	0.10 for 484ft² (Actual 484ft²)	DENSITY (gpm/ft²)
TOTAL HOSE STREAMS	100.00	TOTAL HOSE STREAMS
TOTAL HEADS FLOWING	4	TOTAL HEADS FLOWING
K-FACTOR	5.8, 4.9	K-FACTOR
P-BOR BASE of RISER (gpm)	86.42	P-BOR BASE of RISER (gpm)
P-BOR BASE of RISER (psi)	26.575	P-BOR BASE of RISER (psi)
Zone 2 BASE of RISER (gpm)	86.42	Zone 2 BASE of RISER (gpm)
Zone 2 BASE of RISER (psi)	86.140	Zone 2 BASE of RISER (psi)
Zone 3 BASE of RISER (gpm)	86.42	Zone 3 BASE of RISER (gpm)
Zone 3 BASE of RISER (psi)	81.348	Zone 3 BASE of RISER (psi)
Zone 4 BASE of RISER (gpm)	86.42	Zone 4 BASE of RISER (gpm)
Zone 4 BASE of RISER (psi)	76.556	Zone 4 BASE of RISER (psi)
SAFETY MARGIN (psi)	+16.694 (31.5%)	SAFETY MARGIN (psi)
HYDRAULIC DESIGN NOTES:		HYDRAULIC DESIGN NOTES:

SAFETY MARG HYDRAULIC | USE OF VK468 RESIDENTIAL PENDENT HEADS Max Spacing: 18x18

Minimum Pressure: 12.0 PSI USE OF VK460 RESIDENTIAL SIDEWALL HEADS

Max Spacing: 16x16 Minimum Flow: 20 GPM Minimum Pressure: 11.9 PSI

Max Spacing

130ft<sup>2</sup> OH / 225ft<sup>2</sup> LH

130ft2 OH / 225ft2 LH

130ft2 OH / 225ft2 LH

130ft2 OH / 225ft2 LH

18 x 18 / 324ft<sup>2</sup>

100ft2 OH / 196ft2 LH

100ft<sup>2</sup> OH / 196ft<sup>2</sup> LH

16 x 16 ft / 256ft<sup>2</sup>

130ft2 OH / 225ft2 LH

18 x 18 / 324ft<sup>2</sup>

Minimum Flow: 17 GPM

Hvdraulic Information - 4th Floor Corridor Residential 0.10 for 411ft<sup>2</sup> (Actual 411ft<sup>2</sup>) -20.440 39.087 87.78

+63.641 (120.2%) DEMANDING 5 CORRIDOR SPRINKLERS PER NFPA 13 19.3.3.3.6

**USE OF VK494 RESIDENTIAL PENDENT HEADS** Max Spacing: 18x18

Minimum Flow: 17 GPM

Minimum Pressure: 12.0 PSI

10. ALL PIPING VALVES AND APPURTENANCES SHALL BE INSTALLED SUCH AS NOT TO OBSTRUCT ANY PORTION OF WINDOWS, DOORWAYS, STAIRS, PASSAGEWAYS OR ACCESS TO EQUIPMENT.

EACH FLOOR LEVEL AND BENEATH THE LOWEST INTERMEDIATE LANDING PER NFPA 13; 9.3.4.1.

FIRE PROTECTION KEY NOTES

FIRE PROTECTION GENERAL NOTES

(1) SPRINKLERS AT TOP AND BOTTOM OF ELEVATOR SHAFT NOT REQUIRED PER ASME A14.1 & NFPA 13; 9.3.6.2

(2) EXPOSED 4" MANUAL CLASS-I COMBINATION STANDPIPE W/ 2" FCA (ZONE 1) AND 2½" HOSE ANGLE VALVE.

1. THE HILLER COMPANIES STARTS 1'-0" ABOVE FINISHED FLOOR. ALL UNDERGROUND PIPING BY OTHERS.

3. SYSTEM DRAINS SHALL BE INSTALLED AS REQUIRED PER NFPA 13 AND EXTENDED OUTSIDE THE BUILDING.

4. ALL CORRIDOR CEILING HEIGHTS AT 8'-6" AND UNIT CEILING HEIGHTS AT 10'-0" UNLESS NOTED OTHERWISE.

5. FIRE SPRINKLERS SHALL NOT REQUIRED IN BATHROOMS THAT ARE LESS 55 FT<sup>2</sup> IN AREA IN ACCORDANCE

**6.** FIRE SPRINKLERS ARE NOT REQUIRED PER NFPA 13; 9.2.4.2, IN CLOSETS, LINEN CLOSETS AND PANTRIES

• THE WALLS AND CEILINGS ARE SURFACED WITH NONCOMBUSTIBLE OR LIMITED-COMBUSTIBLE

. THE ATTIC AND INTERSTITIAL SPACES ARE TO BE FILLED WITH NONCOMBUSTIBLE INSULATION. FIRE SPRINKLERS ARE NOT REQUIRED FOR THIS CONCEALED SPACE WITH THE REQUIREMENTS OF

8. CPVC USED ABOVE CEILINGS IN ALL RESIDENTIAL AREAS. CONVERT PIPING TO STEEL IN EXPOSED AREAS

9. SPRINKLERS SHALL BE INSTALLED AT THE TOP OF COMBUSTIBLE STAIR SHAFTS, UNDER THE LANDINGS AT

2. SPRIGS 4 FT (1.2M) OR LONGER SHALL BE RESTRAINED AGAINST LATERAL MOVEMENT.

WITHIN DWELLING UNITS THAT MEET ALL THE FOLLOWING CONDITIONS:

AND ROOMS OF ORDINARY HAZARD OCCUPANCIES EXCEEDING 400 FT<sup>2</sup>.

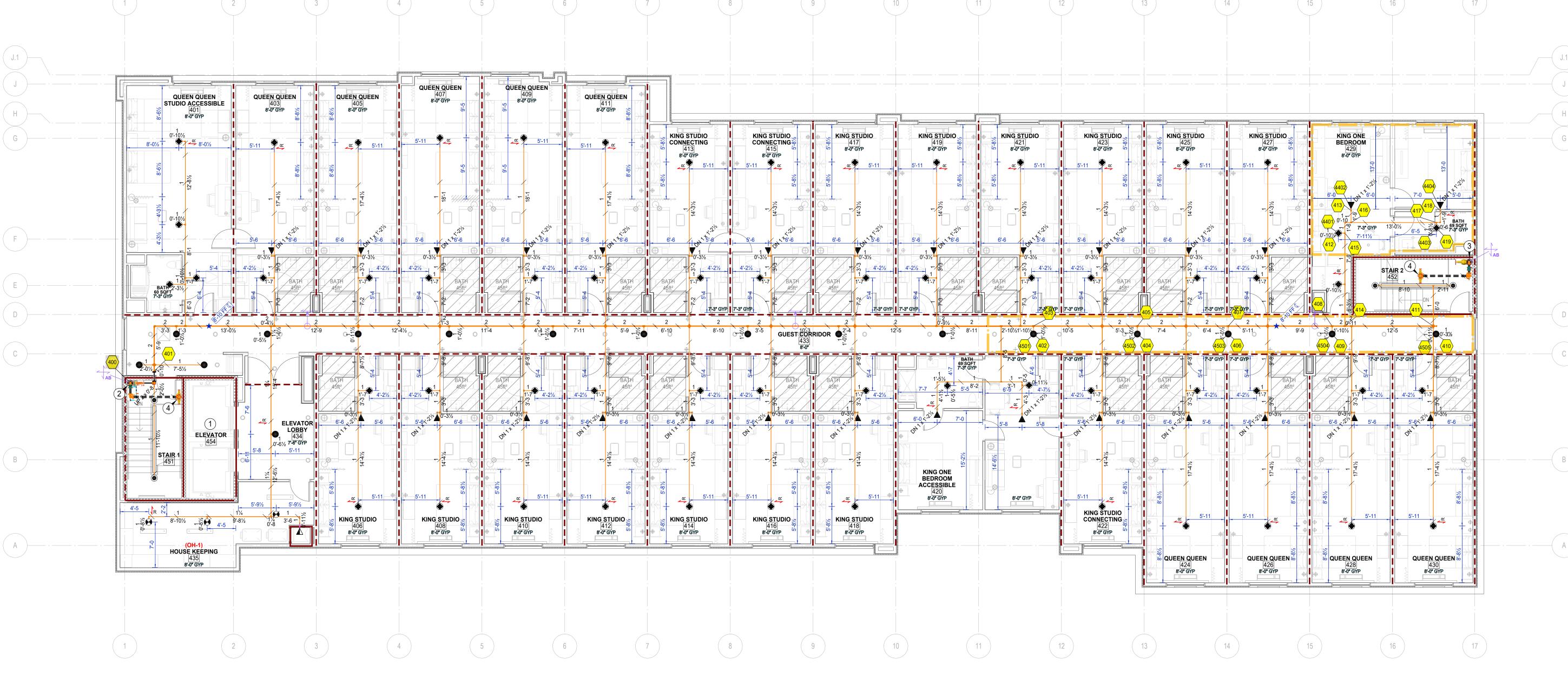
THE AREA OF THE SPACE DOES NOT EXCEED 24 FT<sup>2</sup>.

MATERIALS AS DEFINED BY NFPA 220.

NFPA 13; 9.2.1.7 BEING MET.

(3) EXPOSED 4" MANUAL CLASS-I STANDPIPE SYSTEM.

(4) ROOF MANIFOLD ASSEMBLY. SEE DETAIL ON FP-08.



It is the sole responsibility of owner and owners representative to insure that this building/buildings has proper heat and insulation to prevent fire sprinkler pipe, fittings and devices from freezing.

NORTH

GENERAL NOTES: 1.) SYSTEMS ARE DESIGNED AND INSTALLED PER NFPA 13 (2019 EDITION) 2.) RESIDENTIAL SYSTEM PIPING 2" AND SMALLER TO BE CPVC WITH CPVC FITTINGS. CONVERT TO BLACK STEEL PIPE AND FITTINGS WHERE EXPOSED. | RESIDUAL PRESSURE 3.) STEEL SYSTEM PIPING 2" AND SMALLER TO BE SCH. 40 BLACK STEEL PIPE AND FITTINGS ARE THREADED / GROOVED / FLANGED / WELDED. 4.) STEEL SYSTEM PIPING  $2\frac{1}{2}$ " OR LARGER TO BE SCH. 10 BLACK STEEL PIPE AND FITTINGS ARE GROOVED / FLANGED / WELDED. 5.) ALL HANGERS ARE TO MEET THE CRITERIA SET FORTH BY NFPA 13 (2019 6.) WIRING OF ELECTRICAL EQUIPMENT IS TO BE BY OTHERS.

EDITION) AND SPACED ACCORDING TO MANUFACTURES SPECIFICATIONS. 7.) PAINTING OF PIPE OR COMPONENTS SHALL BE BY OTHERS. 8.) 1 = REPRESENTS A HYDRAULIC REFERENCE POINT. 9.) THE HILLER COMPANIES TO START 1'-0" ABOVE FINISHED FLOOR. 10.) ALL UNDERGROUND PIPING BY OTHERS. 11.) SPRINKLERS LOCATED 7'-6" OR LESS FROM FLOOR TO BE PROTECTED WITH APPROVED GUARDS.

WATER SUPPLY INFORMATION STATIC PRESSURE FIRE PUMP SIZE GPM @ PSI 300 @ 60 FLOW G.P.M. 1160 TYPE OF DRIVER DATE OF TEST 09/30/2025 ELECTRICAL REQ.5 208V HYDRANT LOCATION @ TEST NODE (SEE SITE PLAN) NODE #1 TEST TAKEN BY (803) 545-3881 GREENWOOD CPW TESTED BY - MIKE PROCTOR WITNESSED BY - RUSSELL HOLLEY CONTACT EMAIL - RHOLLEY@GREENWOODCPW.COM HYDRANT LOCATION - SEE FP-01



SEISMIC AND BRANCHLINE RESTRAIN NOTE

. WHERE SHORT RODS AND STRAPS ARE USED - NO LATERAL

2. WHERE SHORT RODS AND STRAPS ARE USED - NO BRANCHLINE RESTRAINTS REQUIRED PER NFPA 13; 18.5.5.10.1 AND 18.6.5

BRACING REQUIRED PER NFPA 13; 18.5.5.10.2

EW STAMP						Spi	rinkler Legend	- Tot	tal Project			
OCHOA	Symbol	Manufacturer	SIN	Model	Quantity	K-Factor	Туре	Size	Response	Finish	Temperature	Note
#139445	$\boxtimes$	Viking	VK300	Microfast	9	5.6	Upright	1/2	Quick	Brass	200°F	Exposed
LIV		Viking	VK4621	Concealed	55	5.6	Concealed Pendent	1/2	Quick	Brass	155°F	White Coverplate
YSTEMS LAYOUT	Ø	Viking	VK302	Microfast	33	5.6	Pendent	1/2	Quick	Chrome	200°F	Chrome Res Esc
	<b>O</b>	Viking	VK4621	Concealed	1	5.6	Concealed Pendent	1/2	Quick	Brass	200°F	White Coverplate
		Viking	VK494	Freedom	59	4.9	Concealed Pendent	1/2	Fast	Brass	155°F	White Coverplate
		Generic	MFG	Chute Head	4	5.6	Horizontal Sidewall	1/2	Quick	Brass	155°F	Connect Chute Head
		Viking	VK305	Microfast	3	5.6	Horizontal Sidewall	1/2	Quick	Chrome	200°F	Chrome Res Esc
.( ),		Viking	VK460	Freedom	104	5.8	Horizontal Sidewall	1/2	Fast	Chrome	155°F	Chrome Res Esc
	•	Victaulic	V3518	VS1	4	5.6	Pendent	1	Quick	VC250	200°F	VC250 Concealed
// &WV\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		Viking	VK468	Freedom	208	4.9	Pendent	1/2	Fast	Chrome	155°F	Chrome Res Esc
H 01/01/2027					Total = 480							
					•		-					

FIRE SUPPRESSION PLAN - FOURTH FLOOR

FP-07 SCALE: 1/8" = 1'-0"

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$\overline{\wedge}$		·		



P O BOX 458

PORTSMOUTH VA. 23705

PH: 757-391-0050

FAX: 757-391-0098

130ft² OH / 225ft² LH

**SUBMITTALS** Home 2 Suites by Hilton 4-Story Hotel Construction
475 Hospitality Blvd. Greenwood, SC 29649 CONTRACT WITH: John M. Campbell Company 102 Winchester Avenue Monroe, NC 28110 PHONE: (704) 254-3214 DRAWING NAME: FIRE SUPPRESSION PLAN - FOURTH FLOOR

DRAWN BY: TWH AHJ: LLR / Greenwood FM DATE: 10/10/25 SCALE: AS NOTED

CONTRACT NO.: CF0588

FP-07 of 08

