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VIEGA 13D Fire Protection Design

TECHNICAL SERVICE DEPARTMENT
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THE PORTLAND PASSIVE HOUSE

760 OCEAN AVE.
PORTLAND, ME. 04103

Project:

Dwg no.:

FP1

Title:

FIRST & SECOND FLOORS

Quotation no.: FPTK1301-009 ME

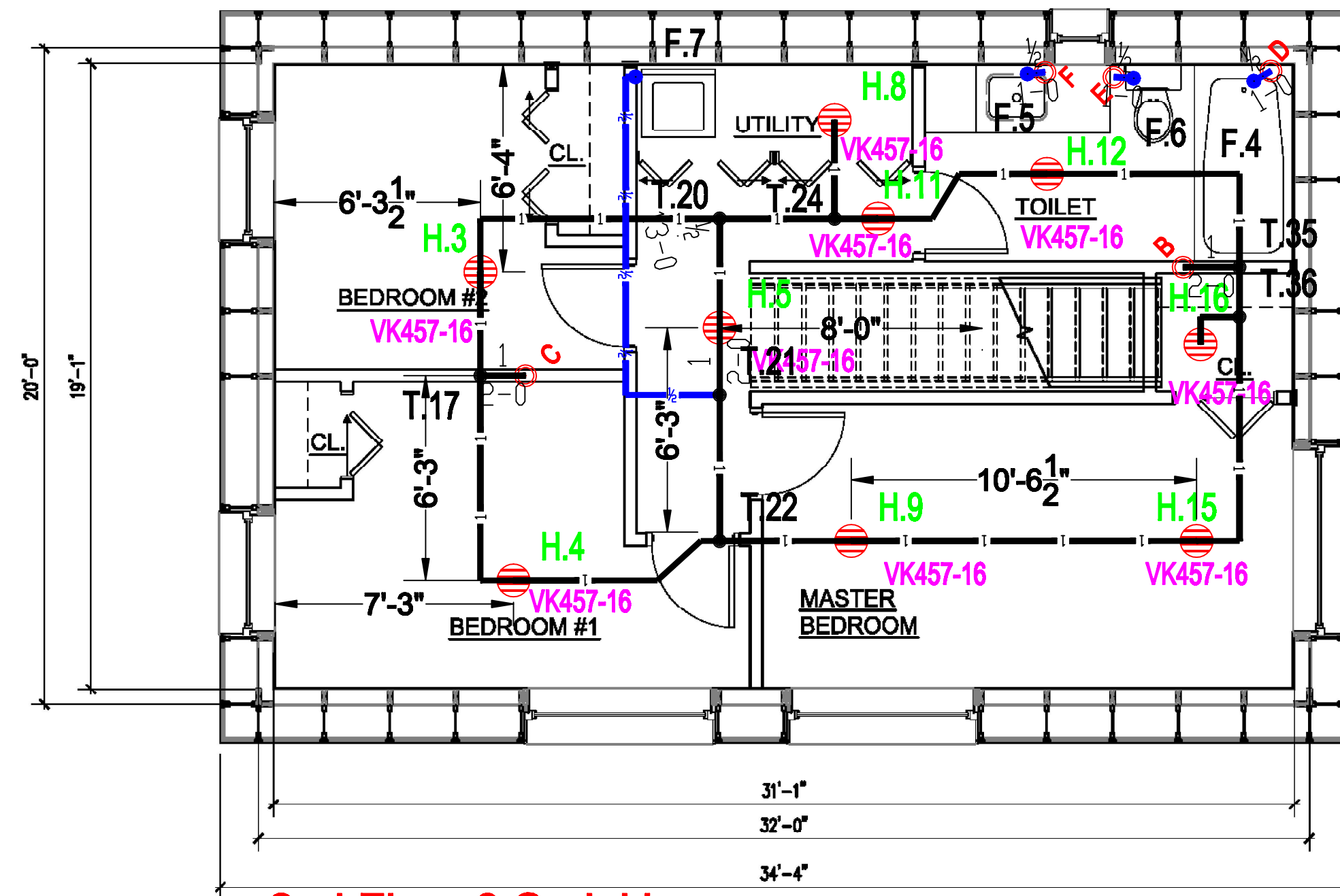
Drawn by: T.K.

Approved by:

Date Submitted: **JAN. 16, 2013**

Scale: 1/4" = 1'

Revisions No: Revision Date:

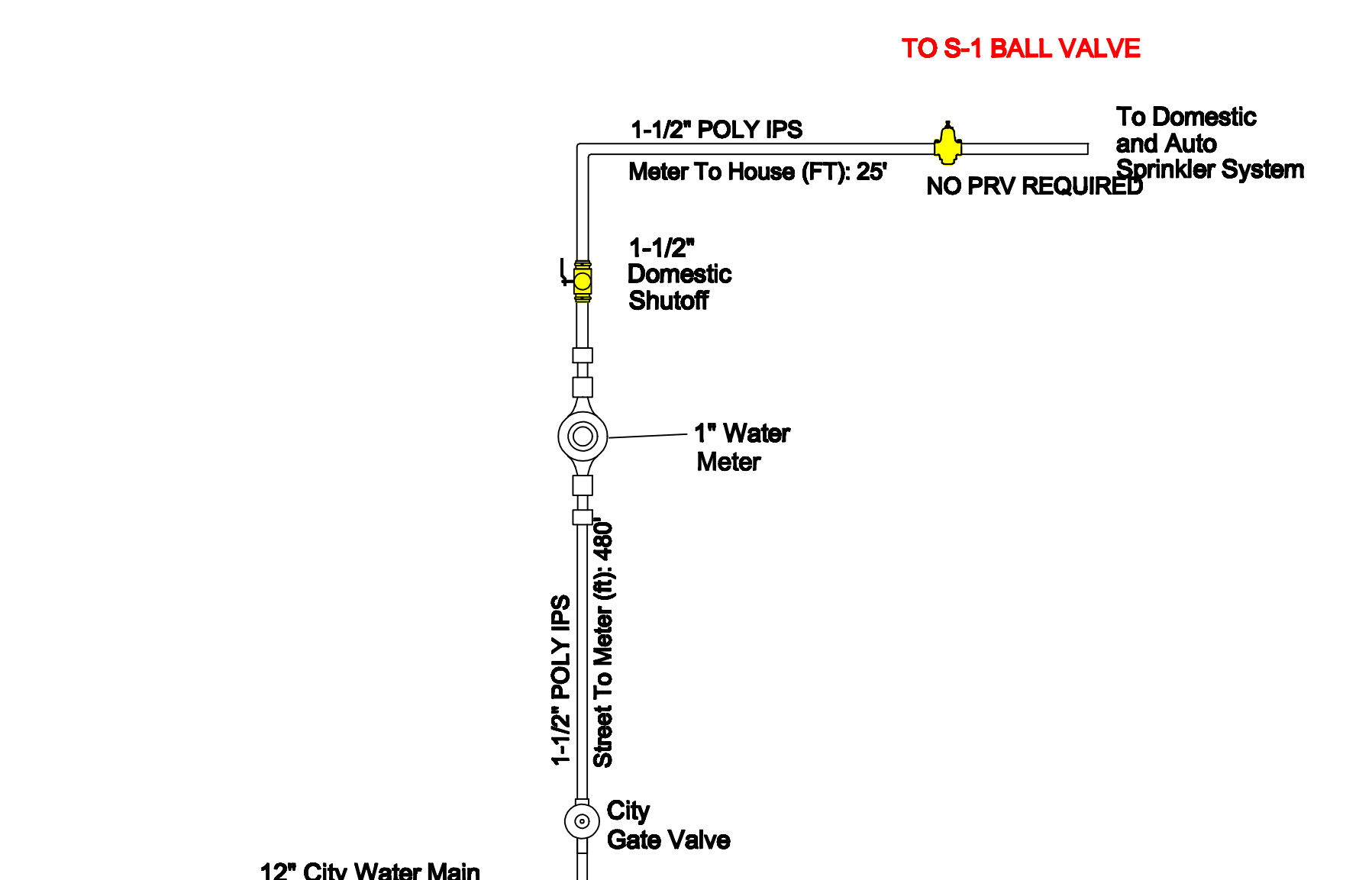
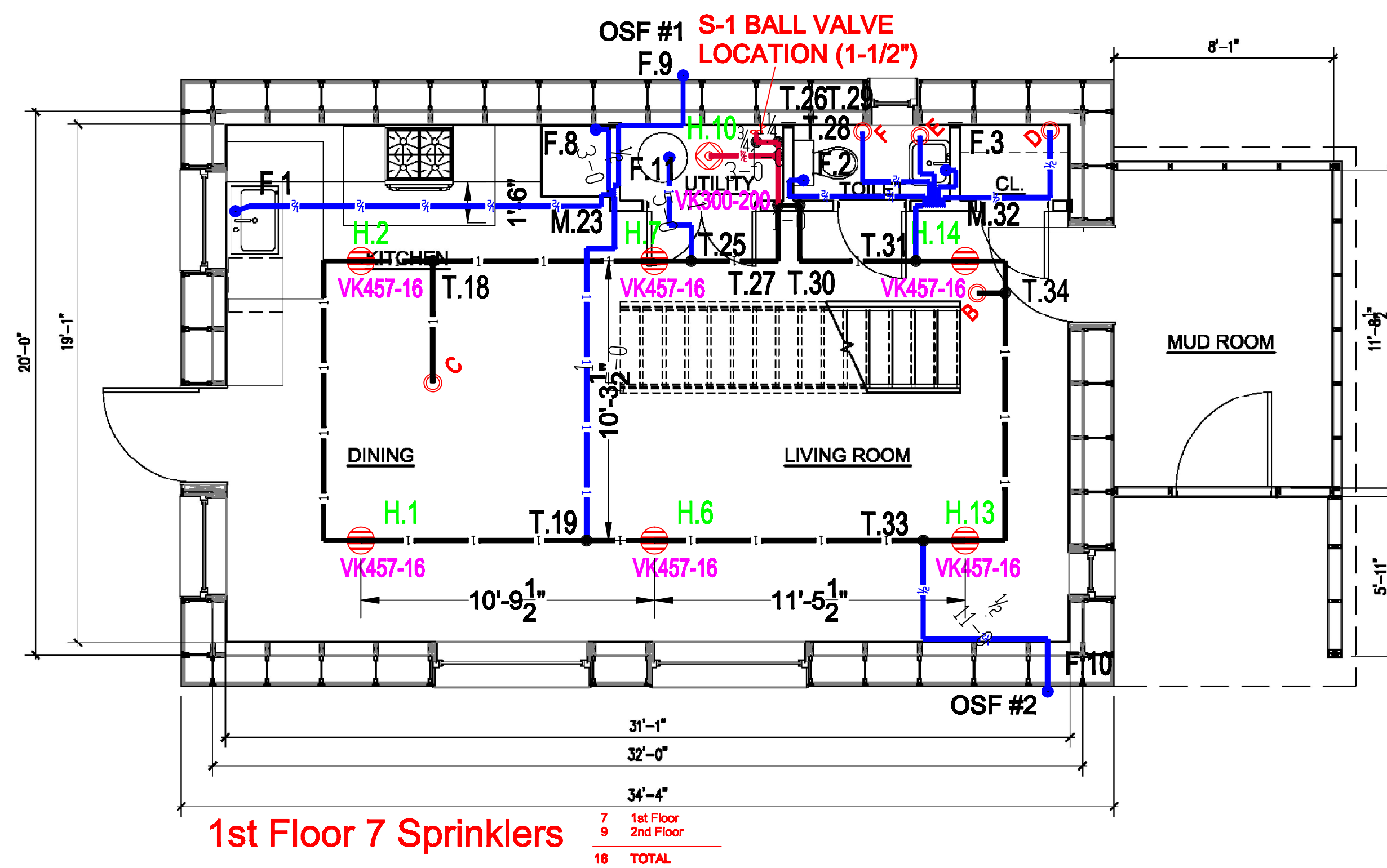


Most Demanding Single Head Information	
Information	Results
Flow Required at Head (GPM):	13
Source Pressure at Head (PSI):	7.04
Maximum Spacing (length):	16
Maximum Spacing (Width):	16
Domestic Flow Added (GPM):	0
Sprinkler Model:	VK457
Elevation of Highest Head:	134
K-Factor	4.9
Temperature Rating:	165
Flow Required at Source (GPM)	13
Pressure Required at Source (psi)	44.84
Source Reference Point:	At Ref Pt STR
C-Factor of Sprinkler Pipe	150
C-Factor of Service Line	150
Head Reference Point:	H.8

LEGEND	
—	Manifold
○ A	Inter Level Connection
● irAB1+	Hot Water Fixture
● irAB1+	Cold Water Fixture
—	Type K Copper w/ ProPress Fittings
—	Type L Copper w/ ProPress Fittings
—	Type M Copper w/ ProPress Fittings
—	ViegaPEX Ultra Black
—	ViegaPEX Ultra Blue - Cold Plumbing
—	ViegaPEX Ultra Blue - Hot Plumbing

Most Demanding Two Head Information	
Information	Results
Flow Required at Head (GPM):	13
Source Pressure at Head (PSI):	7.04
Maximum Spacing (length):	16
Maximum Spacing (Width):	16
Domestic Flow Added (GPM):	0
Sprinkler Model:	VK457
Elevation of Highest Head:	134
K-Factor	4.9
Temperature Rating:	165
Flow Required at Source (GPM)	26.1437
Pressure Required at Source (psi)	59.15
Source Reference Point:	At Ref Pt STR
C-Factor of Sprinkler Pipe	150
C-Factor of Service Line	150
Head Reference Point:	H.5 & H.11

- ⊗ VK457-16 --- 15 VIKING Model VK457 Freedom Concealed Spr FP K=4.9, 165°F, 7/16" Orifice, Maximum Spacing 16x12" Sprinkler head demand: 13 gpm @ 7.04
- ⊗ VK300-200 --- 1 VIKING Model VK300 QR Upright Spr K=5.8, 200°F, 1/2" Orifice, Maximum Spacing 12x12" Sprinkler head demand: 14.8 gpm @ 7



Flow at Source (GPM): 1221
Supply Static Pressure (PSI): 72
Residual Pressure (PSI): 68
Supply Elevation (FT): 85
Information Source: JIM ROBINSON / SONIA BARRANTES

7	1st Floor
9	2nd Floor
16	TOTAL