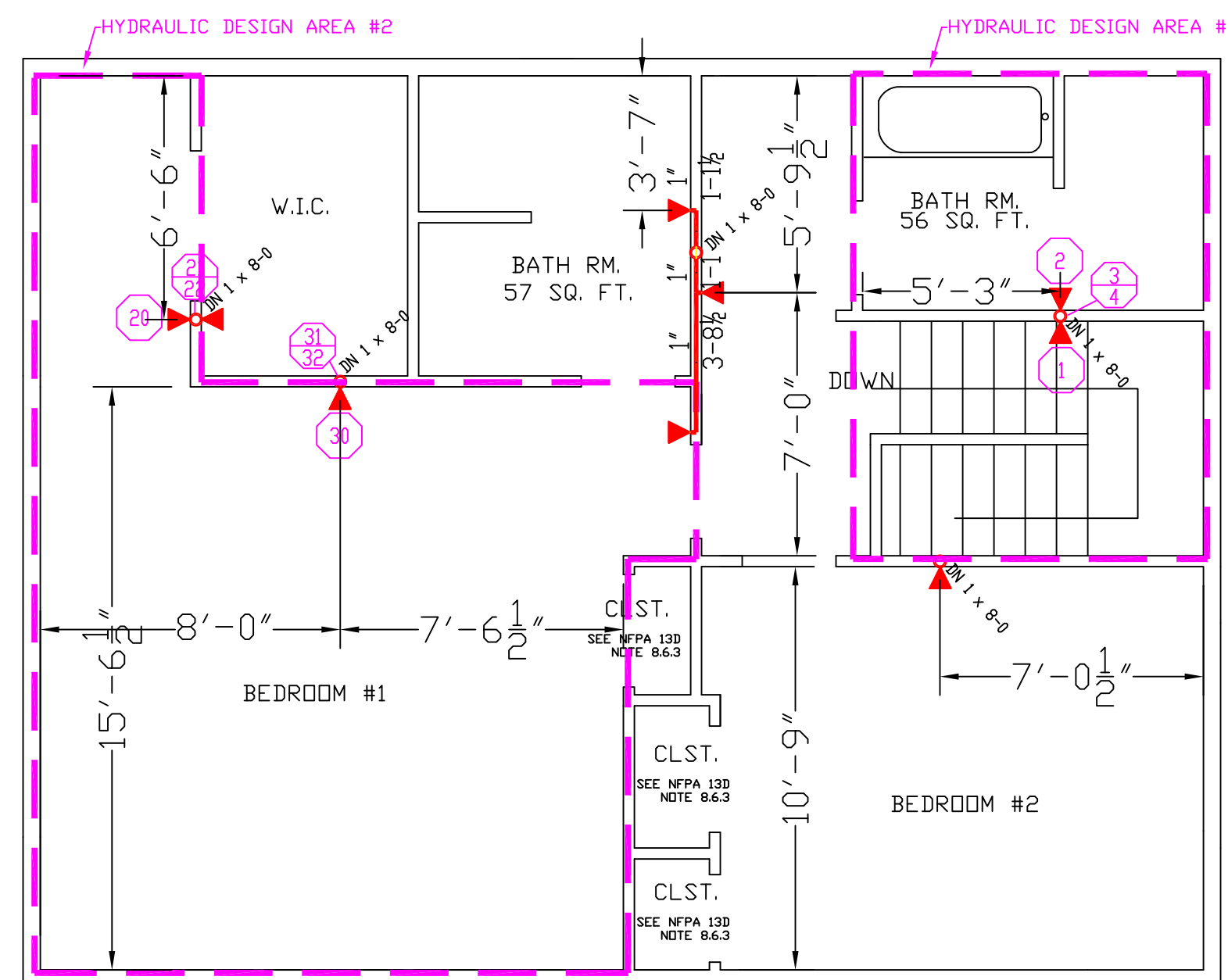
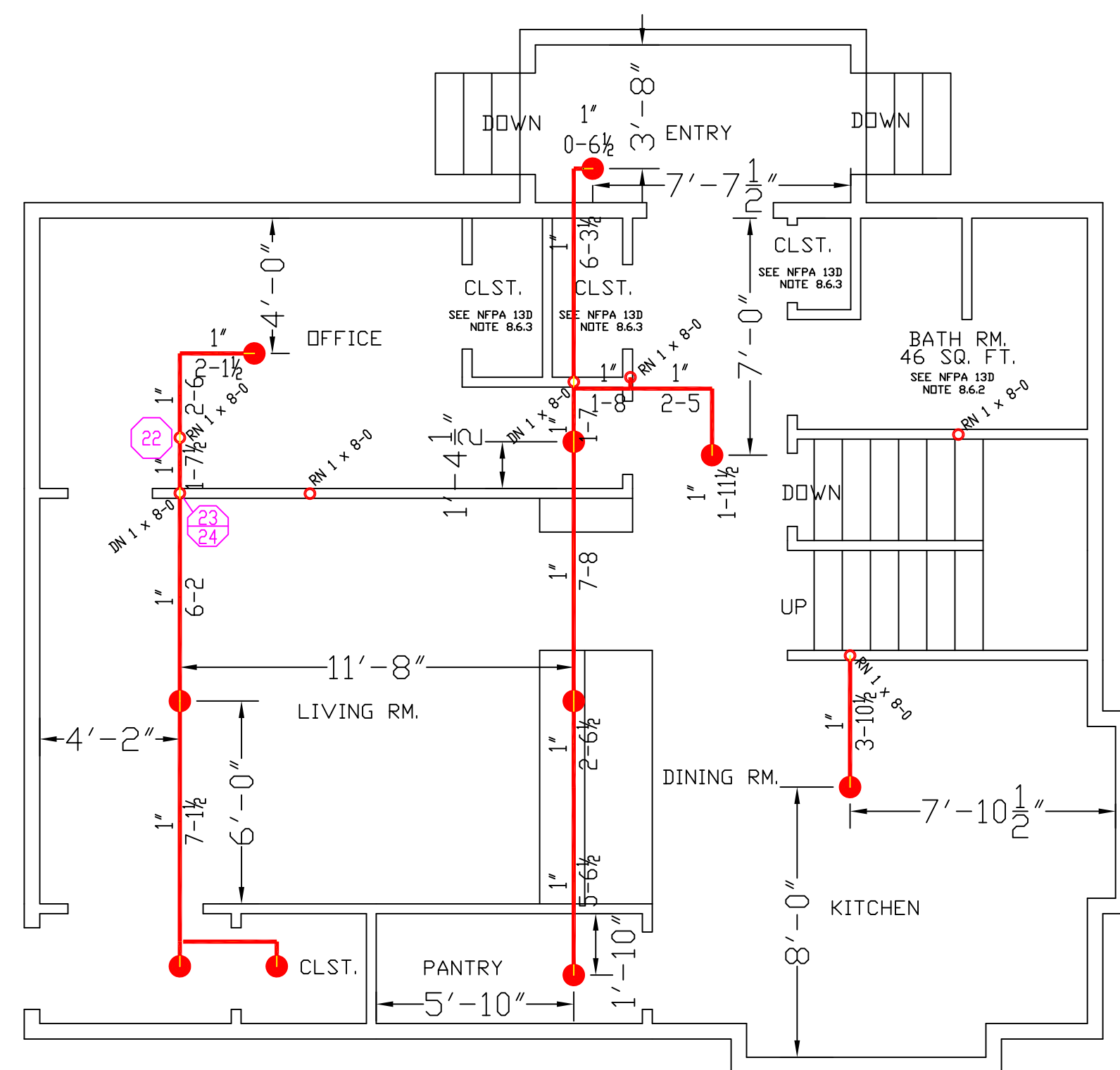


CALC STICKER #2
HYD. DESIGN CRITERIA
 (NFPA 13D 2010 ed. - WET)
 LOCATION= BED RM
 HAZARD CLASSIFICATION: LIGHT
 DENSITY= .05 GPM/SQ.FT.
 AREA OF OPERATION= 296 SQ. FT.
 HOSE DEMAND: 0 GPM
 NO. OF SPRINKLERS= 2 MOST DEMANDING
 SYSTEM DEMAND (INCLUDING HOSE) @
 BASE OF RISER= 37-GPM 48-PSI
 SAFETY MARGIN= 5.17-PSI

CALC STICKER #1
HYD. DESIGN CRITERIA
 (NFPA 13D 2010 ed. - WET)
 LOCATION= BATH / STAIRWAY
 HAZARD CLASSIFICATION: LIGHT
 DENSITY= .05 GPM/SQ.FT.
 AREA OF OPERATION= 122 SQ. FT.
 HOSE DEMAND: 0 GPM
 NO. OF SPRINKLERS= 2 MOST DEMANDING
 SYSTEM DEMAND (INCLUDING HOSE) @
 BASE OF RISER= 29-GPM 41-PSI
 SAFETY MARGIN= 12.9-PSI



2ND FLOOR PLAN
 SCALE: 1/4" = 1'-0"
 AREA: 787 SQ. FT.



1ST FLOOR PLAN
 SCALE: 1/4" = 1'-0"
 AREA: 841 SQ. FT.

NOTES FOR AN NFPA 13D SYSTEM

(13D) 8.6.2 BATHROOMS
 SPRINKLERS SHALL NOT BE REQUIRED IN BATHROOMS OF 55 SQ. FT. AND LESS.

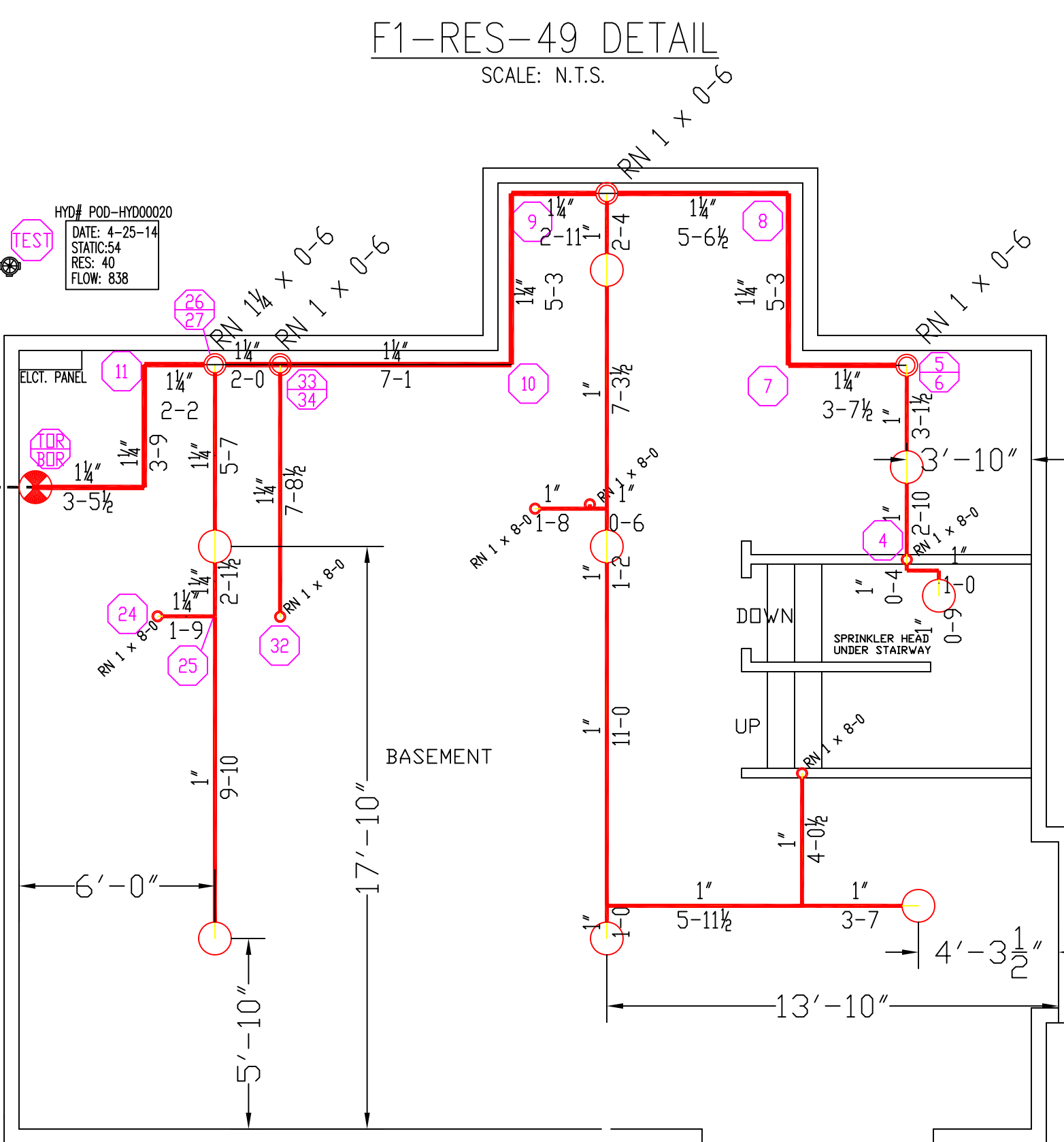
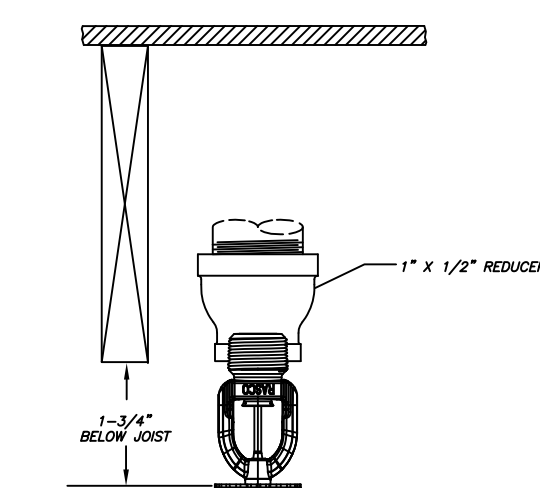
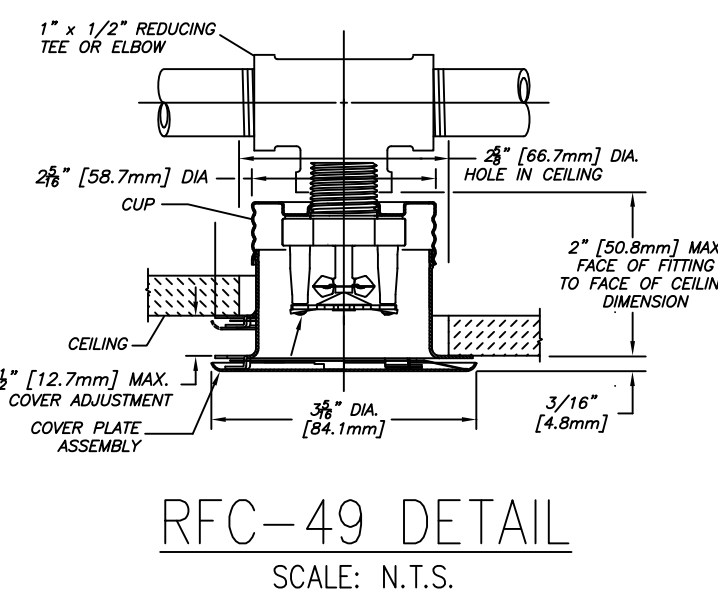
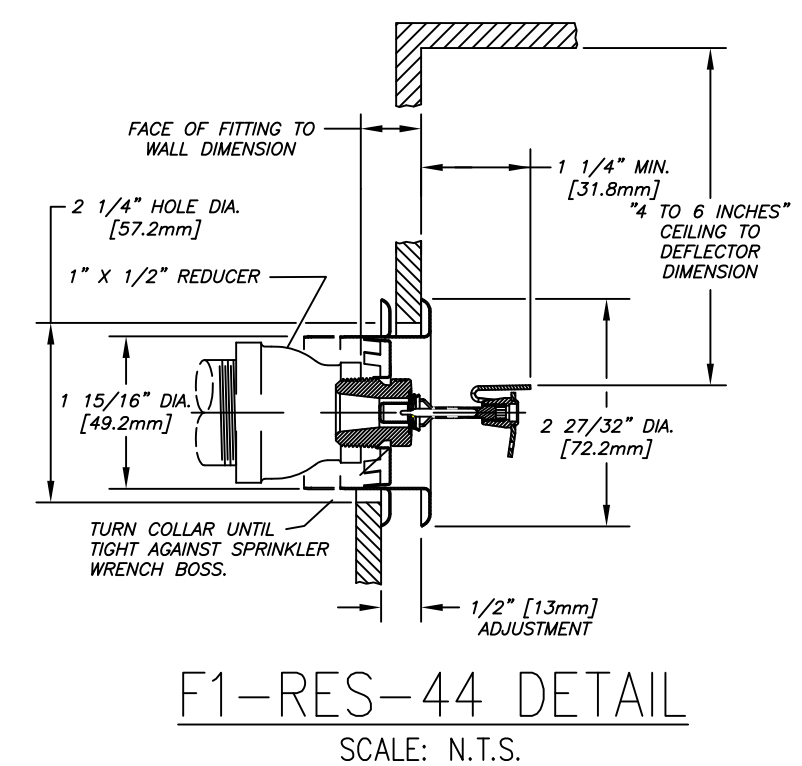
(13D) 8.6.3 CLOSETS
 SPRINKLERS SHALL NOT BE REQUIRED IN CLOTHES CLOSETS, LINEN CLOSETS, AND PANTRIES THAT MEET ALL OF THE FOLLOWING CONDITIONS:
 (1) THE AREA OF THE SPACE DOES NOT EXCEED 24 SQ. FT.
 (2) THE LEAST DIMENSION DOES NOT EXCEED 3 FT.
 (3) THE WALLS AND CEILINGS ARE SURFACED WITH NON-COMBUSTIBLE OR LIMITED-COMBUSTIBLE MATERIALS.

(13D) 8.6.4 GARAGES / PORCHES
 SPRINKLERS SHALL NOT BE REQUIRED IN GARAGES, OPEN ATTACHED PORCHES, CARPORTS, AND SIMILAR STRUCTURES.

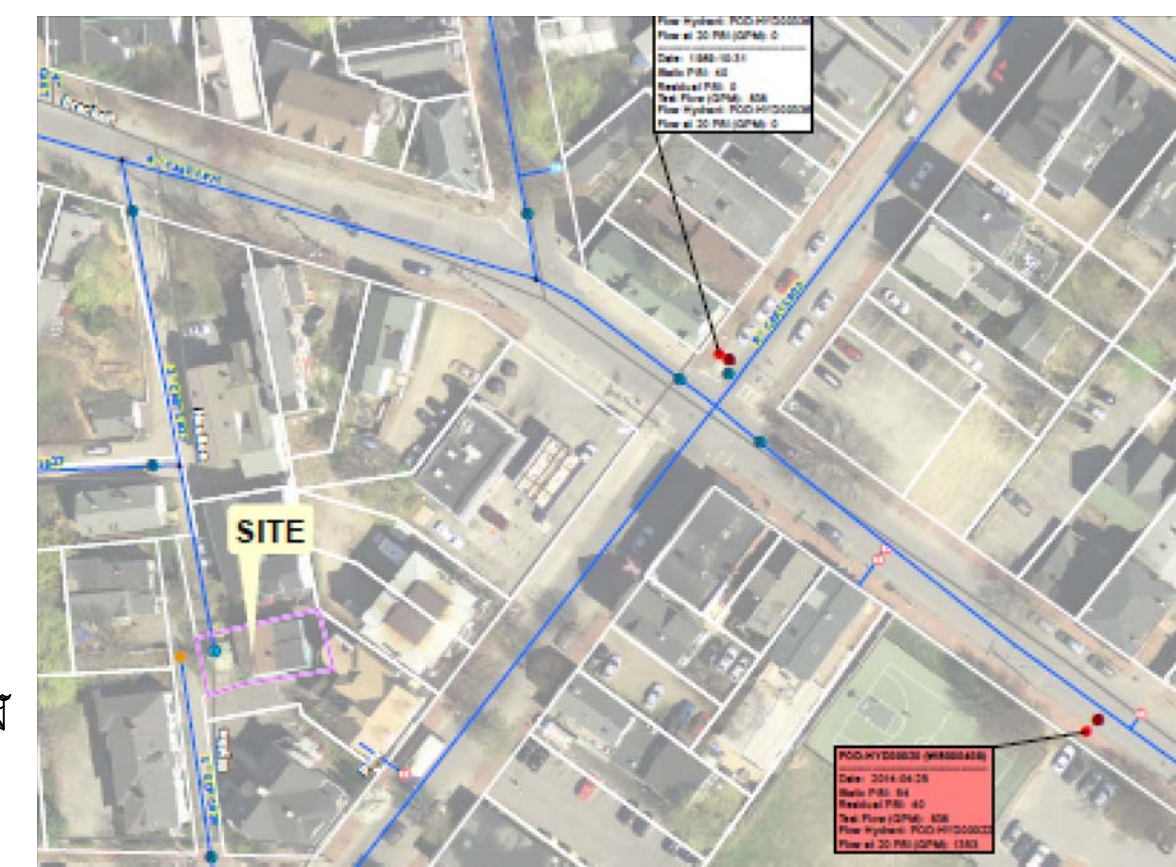
(13D) 8.6.5 ATTICS / PENTHOUSES
 SPRINKLERS SHALL NOT BE REQUIRED IN ATTICS, PENTHOUSE EQUIPMENT ROOMS, ELEVATOR MACHINE ROOMS, CONCEALED SPACES DEDICATED EXCLUSIVELY TO AND CONTAINING ONLY DWELLING UNIT VENTILATION EQUIPMENT, FLOOR/CEILING SPACES, ELEVATOR SHAFTS, CRAWL SPACES, AND OTHER CONCEALED SPACES THAT ARE NOT USED OR INTENDED FOR LIVING PURPOSES AND DO NOT CONTAIN FUEL-FIRED EQUIPMENT.

(13D) 8.6.6 CANOPIES
 SPRINKLERS SHALL NOT BE REQUIRED IN COVERED UNHEATED PROJECTIONS OF THE BUILDING AT ENTRANCES / EXITS AS LONG AS THERE IS ANOTHER MEANS OF EGRESS FROM THE DWELLING UNIT.

(13D) 8.6.7 CEILING POCKETS
 SPRINKLERS SHALL NOT BE REQUIRED FOR CEILING POCKETS THAT MEET THE FOLLOWING CONDITIONS:
 (1) THE TOTAL VOLUME OF UNPROTECTED CEILING POCKET DOES NOT EXCEED 100 CU. FT.
 (2) THE ENTIRE FLOOR UNDER THE UNPROTECTED CEILING POCKET IS PROTECTED BY THE SPRINKLERS AT THE LOWER CEILING ELEVATION.
 (3) EACH UNPROTECTED CEILING POCKET IS SEPARATED FROM ANY ADJACENT UNPROTECTED CEILING POCKET BY A MINIMUM OF 10 FT. HORIZONTAL DISTANCE.
 (4) THE INTERIOR FINISH OF THE UNPROTECTED CEILING POCKET IS NONCOMBUSTIBLE OR LIMITED-COMBUSTIBLE MATERIAL.
 (5) SKYLIGHTS NOT EXCEEDING 32 SQ. FT. SHALL BE PERMITTED TO HAVE A PLASTIC COVER.



BASEMENT PLAN
 SCALE: 1/4" = 1'-0"
 AREA: 841 SQ. FT.



SITE PLAN
 SCALE: N.T.S.

FOR TFP-400, TFP-500 VICTAULIC #899 & FS-5

CURE TIMES WITH ONE STEP SOLVENT CEMENT
 200 PSI (MAXIMUM) TEST PRESSURE

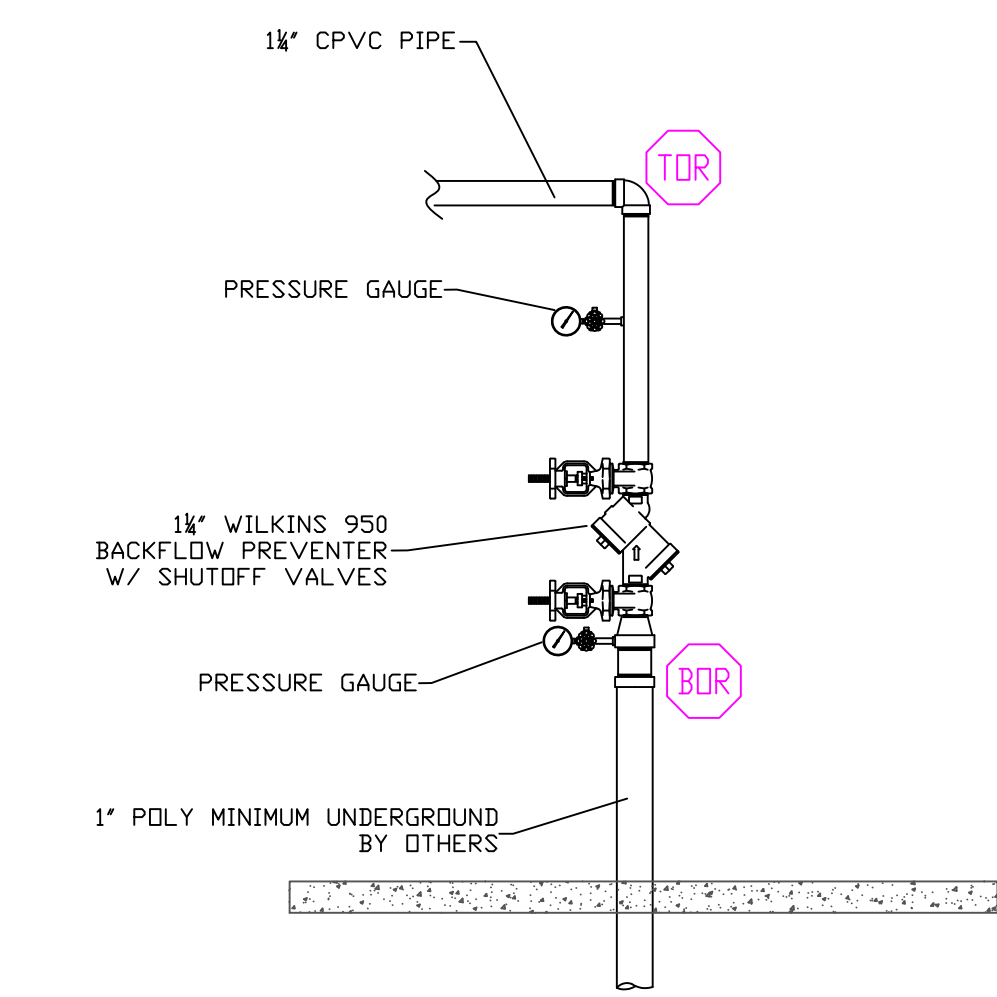
PIPE SIZE (INCHES)	AMBIENT TEMPERATURE DURING CURE PERIOD		
	60°F TO 120°F	40°F TO 59°F	0°F TO 39°F
3/4"	45 MIN.	1.5 HR.	07 TO 39F
1"	45 MIN.	1.5 HR.	24 HR.
1-1/4"	1.5 HR.	16 HR.	120 HR.
1-1/2"	1.5 HR.	16 HR.	120 HR.
2"	6 HR.	36 HR.	SEE NOTE 1
2-1/2"	8 HR.	72 HR.	SEE NOTE 1
3"	8 HR.	72 HR.	SEE NOTE 1

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.

CPVC CURING TIMES
 SCALE: N.T.S.

CPVC MAXIMUM SUPPORT SPACING (FT.)

PIPE SIZE	NOMINAL PIPE SIZE						
	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"
HANGER SPACING	5-1/2'	6'	6-1/2'	7'	8'	9'	10'



RISER DETAIL
 SCALE: N.T.S.

FPSS
 Fire Protection Sprinkler Services

278 HARRIS RD
 MINOT, ME 04258
 PHONE: 207-393-7422

HOWE OWNER:
 JEFFREY BANKER
 14 BLYTHE ST.
 PORTLAND, ME 04103
 PHONE: 207-331-6123

CONTRACTOR:
 FIRE PROTECTION SPRINKLER SERVICES
 278 HARRIS RD.
 MINOT, ME 04258
 PHONE: 207-393-7422

CONTRACTOR # 903

LEGEND:
 ○ RIN PIPE RISER UP
 ○ DN PIPE RISER DOWN
 — CPVC PIPE (WET)
 (A) HYDRAULIC CALC. POINT
 (X) SYSTEM RISER
 --- HYDRAULIC DESIGN AREA

DESIGN NOTES:
 *POSITION, LOCATION, SPACING, AND USE OF SPRINKLERS AND HANGERS SHALL BE IN ACCORDANCE WITH NFPA 13D 2010 ed.
 *HYDRAULIC CALCULATION PROCEDURES HAVE BEEN DONE IN ACCORDANCE WITH NFPA 13D 2010 ed. (SEE PLANS FOR LOCATION OF REMOTE AREAS, HYDRAULIC REFERENCE POINTS, AND SYSTEM DEMANDS)
 *ALL ELECTRICAL WORK TO BE DONE BY OTHERS.
 *DIMENSIONS AND LOCATIONS GIVEN FOR SPRINKLER HEADS AND PIPE MAY VARY TO ACCOMMODATE ACTUAL FIELD CONDITIONS.
 *OWNER TO PROVIDE SUFFICIENT HEAT TO PREVENT FREEZING IN WATER FILLED SPRINKLER PIPE AND EQUIPMENT.
 *OTHER TRADES TO COORDINATE THEIR WORK WITH SPRINKLER CONTRACTOR.
 *REFER TO SPEARS CPVC PLASTIC PIPE INSTALLATION MANUAL FOR GLUE CURING TIME AND HANGER SPACING.

SPRINKLER HEAD DESCRIPTION:

- RELIABLE RFC-49
 WHITE CONCEALED PENDENT
 18" X 18" SPACING MAX
 8" MAX FROM HEAD TO WALL
 QTY: 10 TEMP: 4.9
- RELIABLE F1-RES-44
 WHITE HORIZONTAL SIDEWALL
 INSTALL PER SPACING ON PLAN
 QTY: 9 TEMP: 4.4
- RELIABLE F1-RES-49
 WHITE PENDENT
 12" X 12" SPACING MAX
 6" MAX FROM HEAD TO WALL
 QTY: 8 TEMP: 4.9

TOTAL HEADS ON SHEET: 27

SCALE: 1/4" = 1'-0"

DATE: JUNE 18, 2014
 DESIGNER: TIM FORTIN
 RMS# 866
 NICET LEVEL III CERT. # 122193

LOCATION:
 14 BLYTHE ST.
 PORTLAND, ME

DRAWING TITLE:
BANKER RESIDENCE
 FIRE PROTECTION PLAN
 (NFPA 13D 2010 ed.)

DRAWING NO.:
FP-1