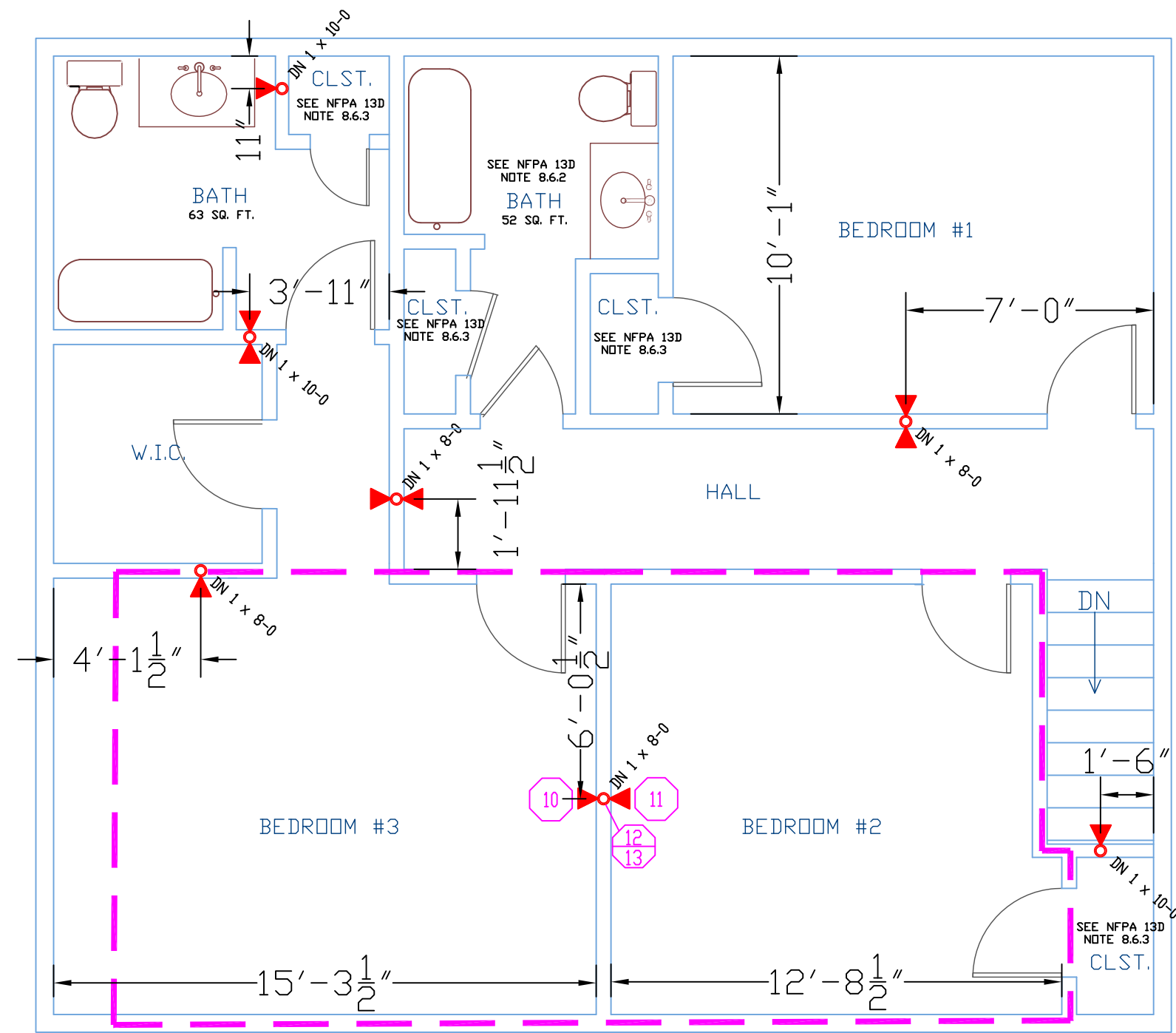


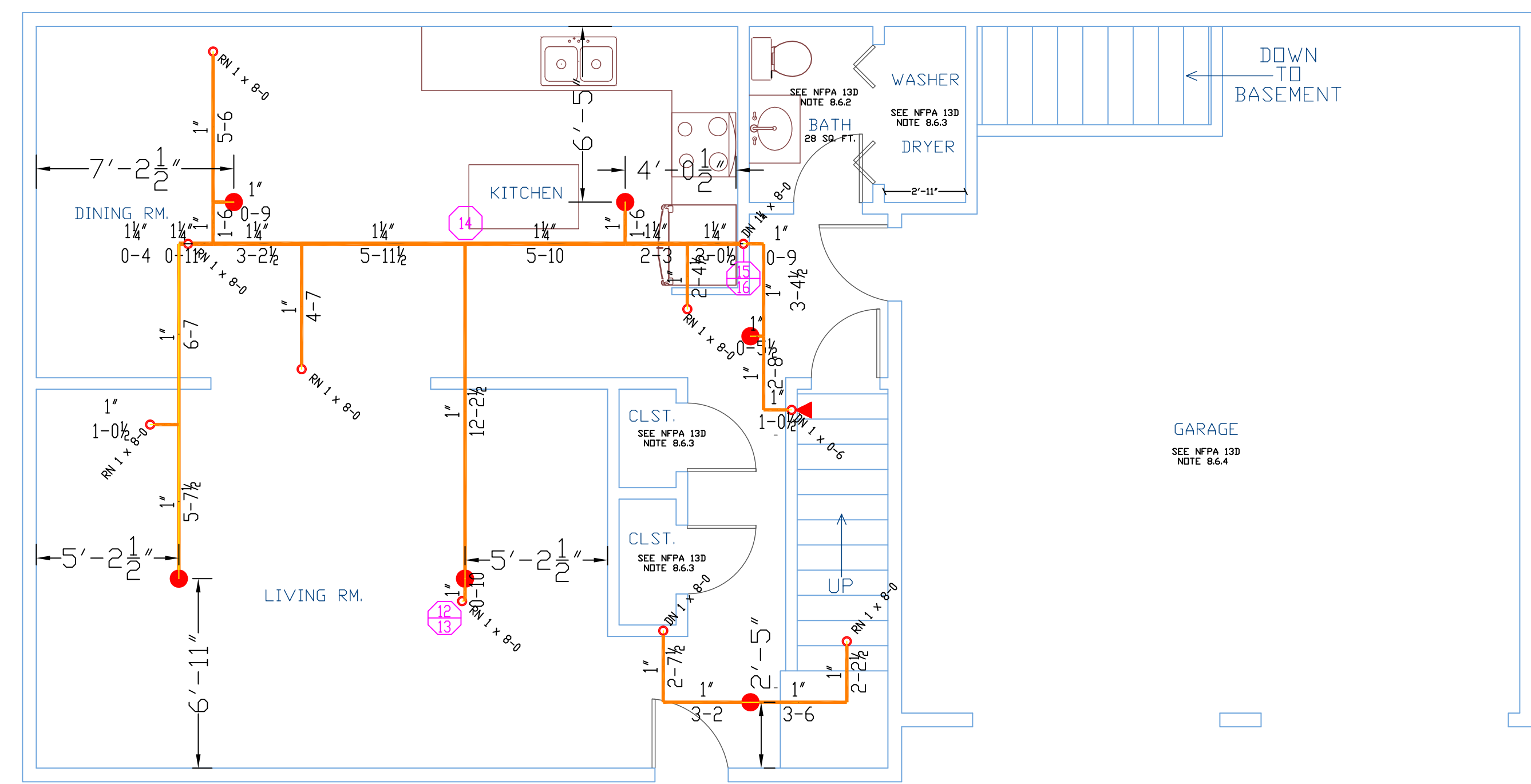
**CALC STICKER #1**  
**HYD. DESIGN CRITERIA**  
 (NFPA 13D 2010 ed. - WET)

LOCATION= BED RM #2 & #3  
 HAZARD CLASSIFICATION: LIGHT  
 DENSITY= .05 GPM/SQ.FT.  
 AREA OF OPERATION= 335 SQ. FT.  
 HOSE DEMAND: 0 GPM  
 NO. OF SPRINKLERS= 2 MOST DEMANDING

SYSTEM DEMAND (INCLUDING HOSE) @  
 BASE OF RISER= 28-GPM 70-PSI  
 SAFETY MARGIN= 17-PSI



**2ND FLOOR PLAN**  
 SCALE: 1/4" = 1'-0"  
 AREA: 896 SQ. FT.



**1ST FLOOR PLAN**  
 SCALE: 1/4" = 1'-0"  
 AREA: 916 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.

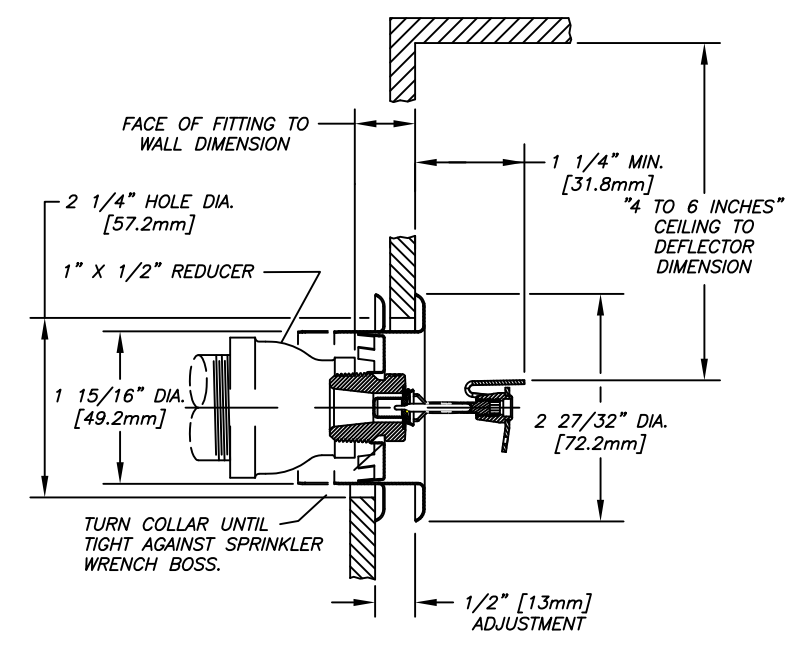
(13D) 8.6.4 GARAGES / PORCHES  
 SPRINKLERS SHALL NOT BE REQUIRED IN GARAGES, OPEN ATTACHED PORCHES, CARPORTS, AND SIMILAR STRUCTURES.

(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.

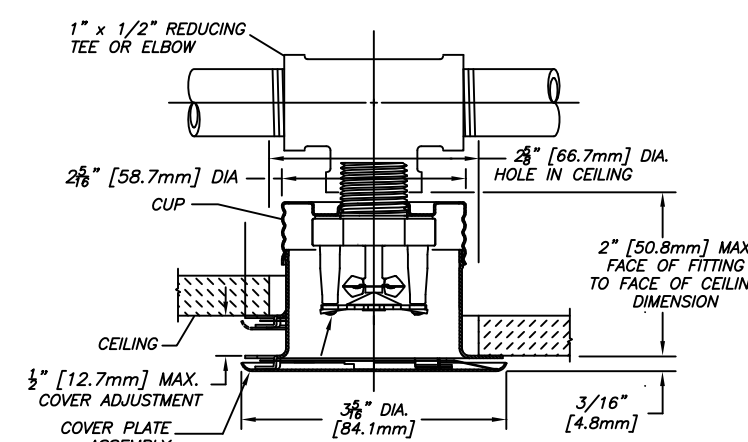
(13D) 8.6.6 CANOPIES  
 SPRINKLERS SHALL NOT BE REQUIRED IN COVERED UNHEATED PROJECTIONS OF THE BUILDING AT ENTRANCES/ EXITS AS LONG AS THERE IS ANOTHER MEANS OF EGRESS FROM THE DWELLING UNIT.

(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.

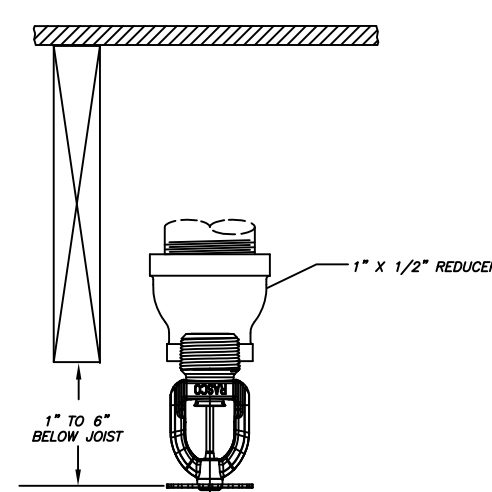
PIPE SIZE	NOMINAL PIPE SIZE						
	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"
HANGER SPACING	5'-1/2"	6'	6'-1/2"	7'	8'	9'	10'



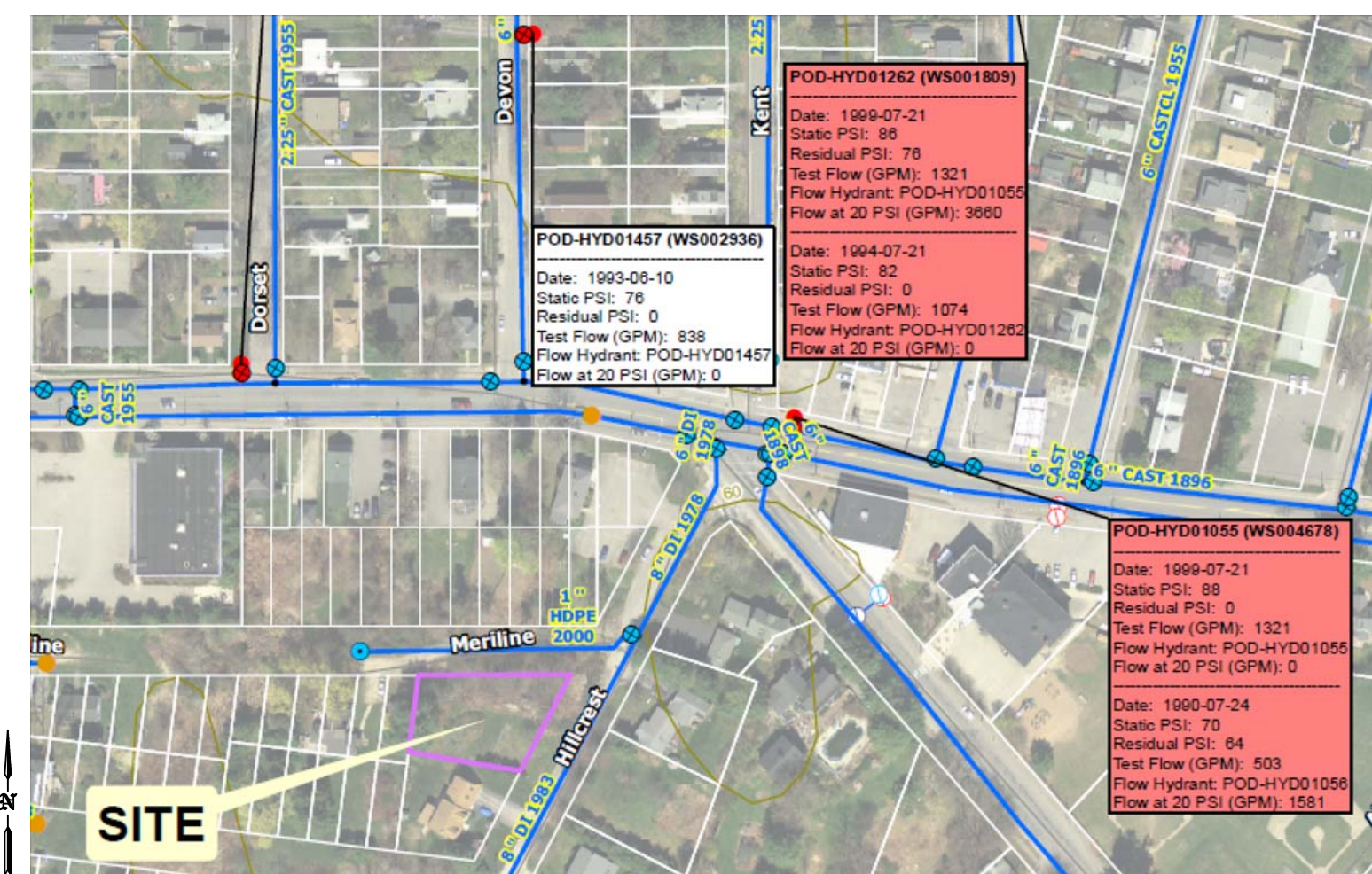
**F1-RES-44 DETAIL**  
 SCALE: N.T.S.



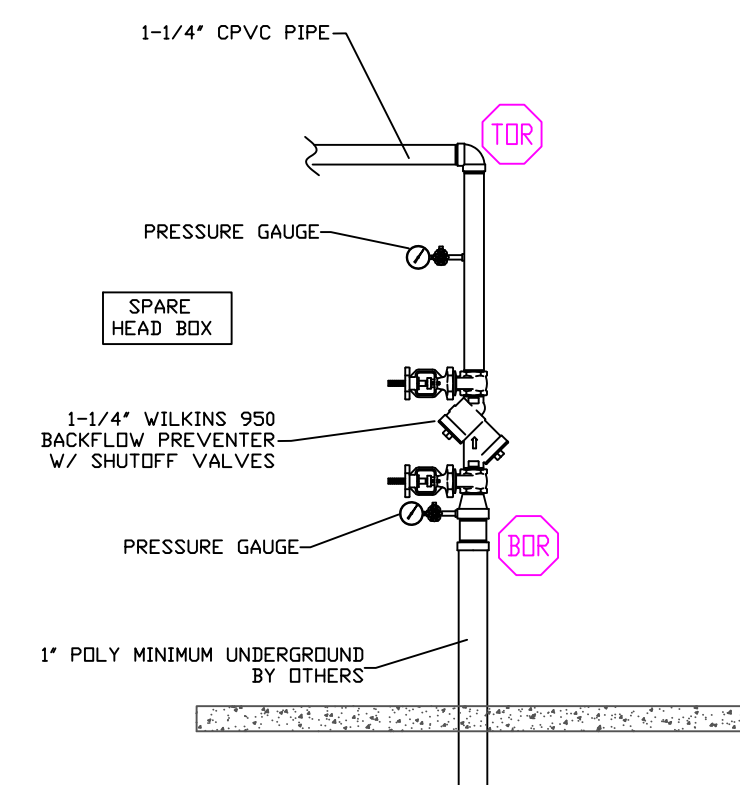
**RFC-49 DETAIL**  
 SCALE: N.T.S.



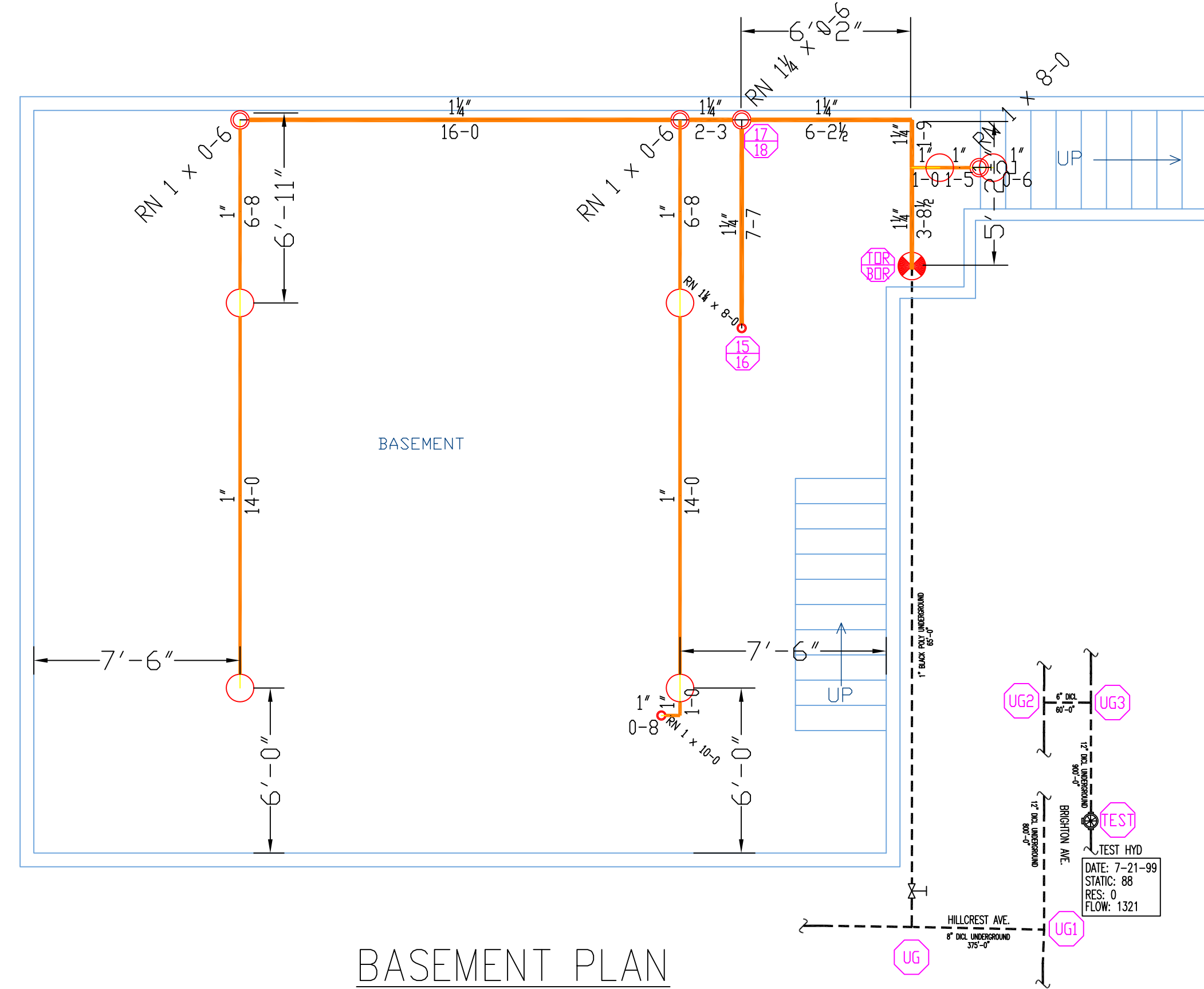
**F1-RES-49 DETAIL**  
 SCALE: N.T.S.



**SITE PLAN**  
 SCALE: N.T.S.



**RISER DETAIL**  
 SCALE: N.T.S.



**BASEMENT PLAN**  
 SCALE: 1/4" = 1'-0"  
 AREA: 956 SQ. FT.



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

HOWE OWNER:

TIM HIGGINS  
 83 BAY ST.  
 PORTLAND, ME 04103  
 PHONE: 207-838-5870

CONTRACTOR:

RICHARD MARTIN  
 PLUMBING & HEATING  
 24 NORTH LEDGE TERRACE  
 FALMOUTH, ME 04105  
 PHONE: 207-518-1622

CONTRACTOR # 895

LEGEND:

- RN PIPE RISER UP
- DN PIPE RISER DOWN
- CPVC PIPE (WET)
- HYDRAULIC CALC. POINT
- ⊗ 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  
 16" X 16" SPACING MAX  
 8" MAX FROM HEAD TO WALL  
 QTY TEMP K/FAC  
 6 165° 4.9
- ▲ RELIABLE F1-RES 44  
 WHITE HORIZONTAL SIDEWALL  
 14" X 14" SPACING MAX  
 7" MAX FROM HEAD TO WALL  
 QTY TEMP K/FAC  
 12 155° 4.4
- RELIABLE F1-RES-49  
 WHITE PENDENT  
 16" X 16" SPACING MAX  
 8" MAX FROM HEAD TO WALL  
 QTY TEMP K/FAC  
 6 155° 4.9

TOTAL HEADS ON SHEET: 24

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

DATE: OCT 14, 2013  
 DESIGNER: TIM FORTIN  
 RMS# 866  
 NICET LEVEL III CERT. # 122193

LOCATION:  
 25 HILLCREST AVE.  
 PORTLAND, ME

DRAWING TITLE:  
**25 HILLCREST AVE.**  
 FIRE PROTECTION PLAN  
 (NFPA 13D 2010 ed.)

DRAWING NO.:  
**SP-1**