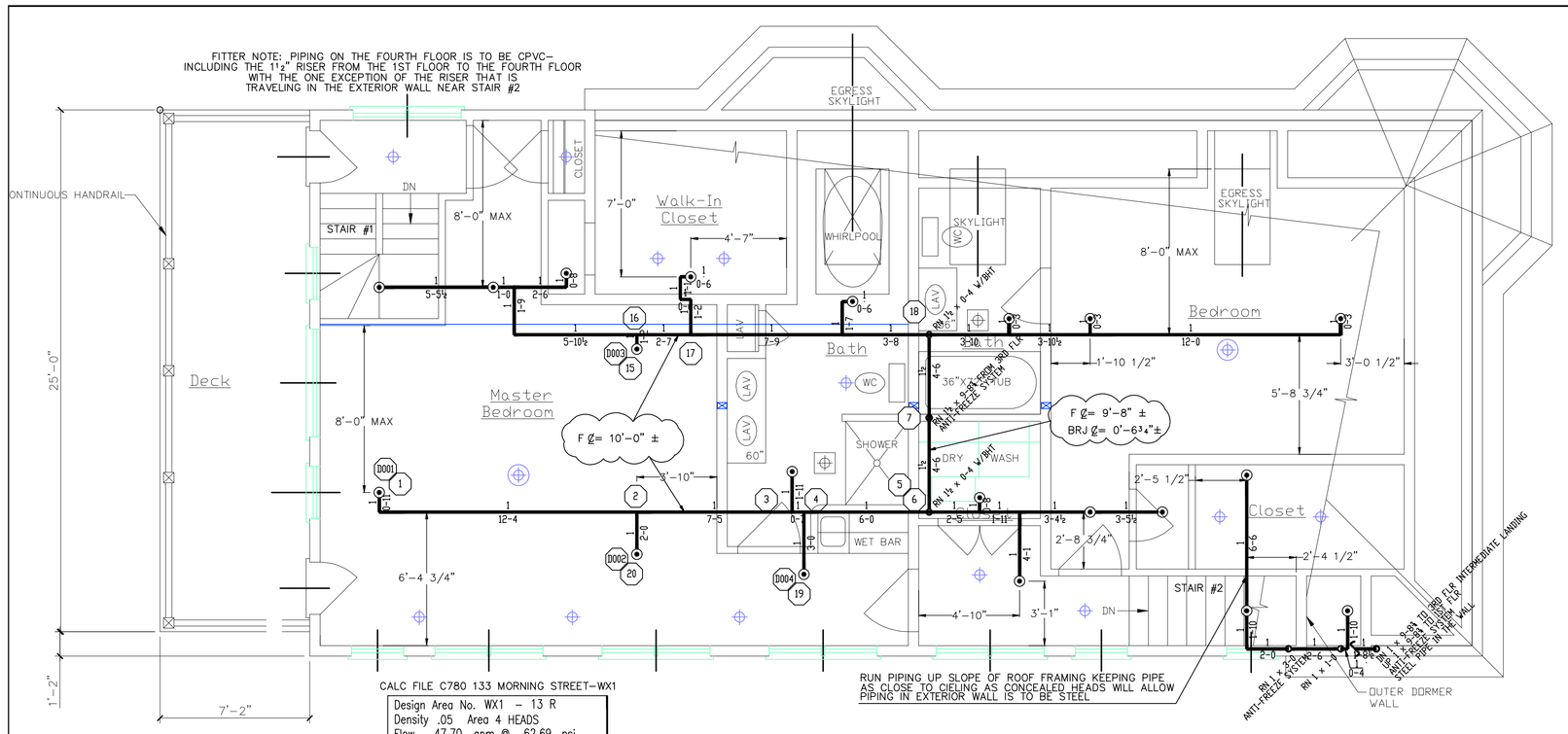
FITTER NOTE: PIPING ON THE FOURTH FLOOR IS TO BE CPVC-
INCLUDING THE 1¼" RISER FROM THE 1ST FLOOR TO THE FOURTH FLOOR
WITH THE ONE EXCEPTION OF THE RISER THAT IS
TRAVELING IN THE EXTERIOR WALL NEAR STAIR #2

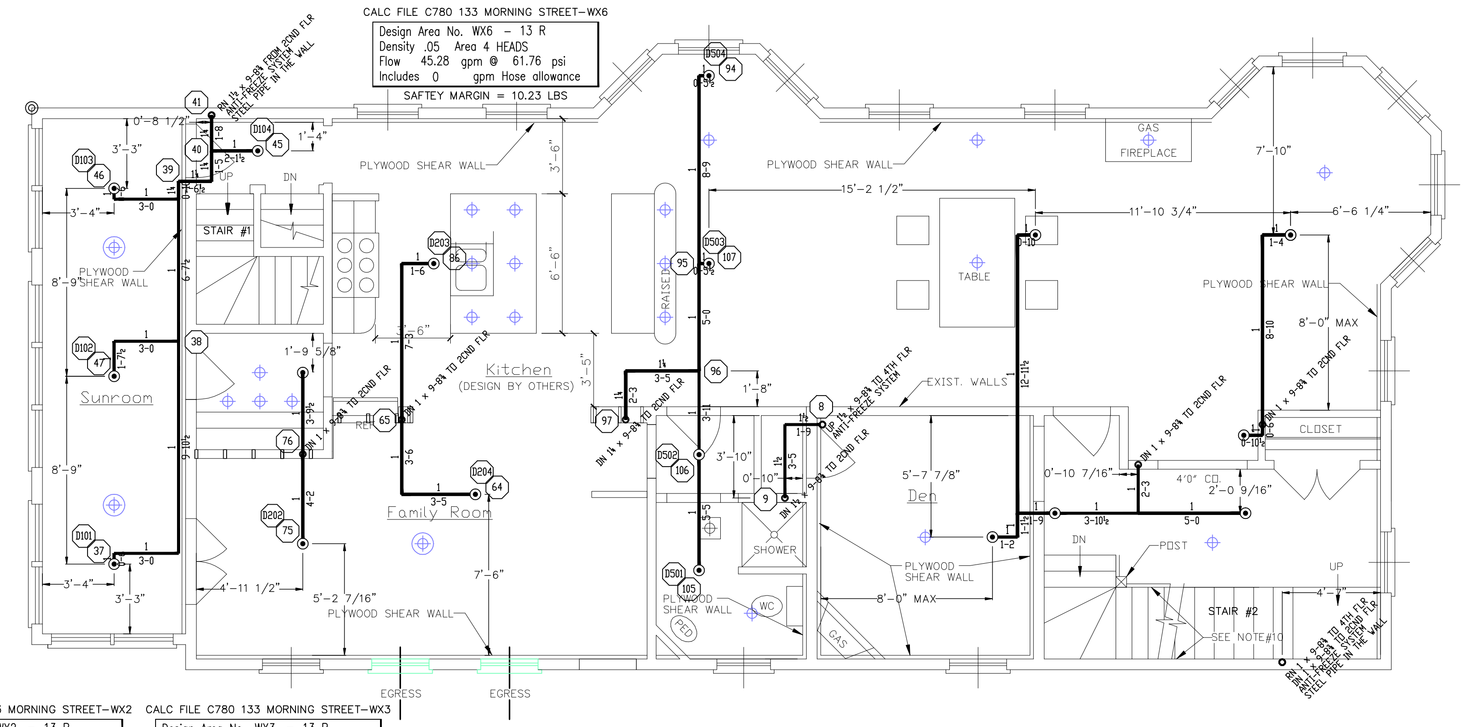


CALC FILE C780 133 MORNING STREET-WX1
Design Area No. WX1 – 13 R
Density .05 Area 4 HEADS
Flow 47.70 gpm @ 62.69 psi
Includes 0 gpm Hose allowance
SAFTEY MARGIN = 9.29 LBS

FOURTH FLOOR SPRINKLER LAYOUT

SCALE ¼" = 1'-0"

CALC FILE C780 133 MORNING STREET-WX6
Design Area No. WX6 – 13 R
Density .05 Area 4 HEADS
Flow 45.26 gpm @ 61.76 psi
Includes 0 gpm Hose allowance
SAFTEY MARGIN = 10.23 LBS

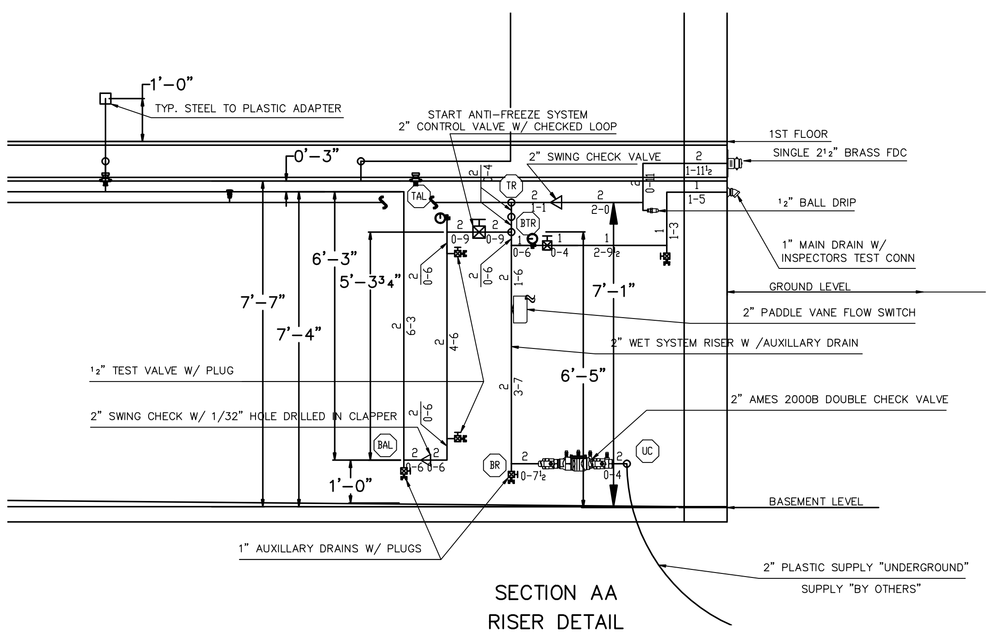


CALC FILE C780 133 MORNING STREET-WX2
Design Area No. WX2 – 13 R
Density .05 Area 4 HEADS
Flow 47.29 gpm @ 64.76 psi
Includes 0 gpm Hose allowance
SAFTEY MARGIN = 7.22 LBS

CALC FILE C780 133 MORNING STREET-WX3
Design Area No. WX3 – 13 R
Density .05 Area 4 HEADS
Flow 57.43 gpm @ 61.50 psi
Includes 0 gpm Hose allowance
SAFTEY MARGIN = 10.48 LBS

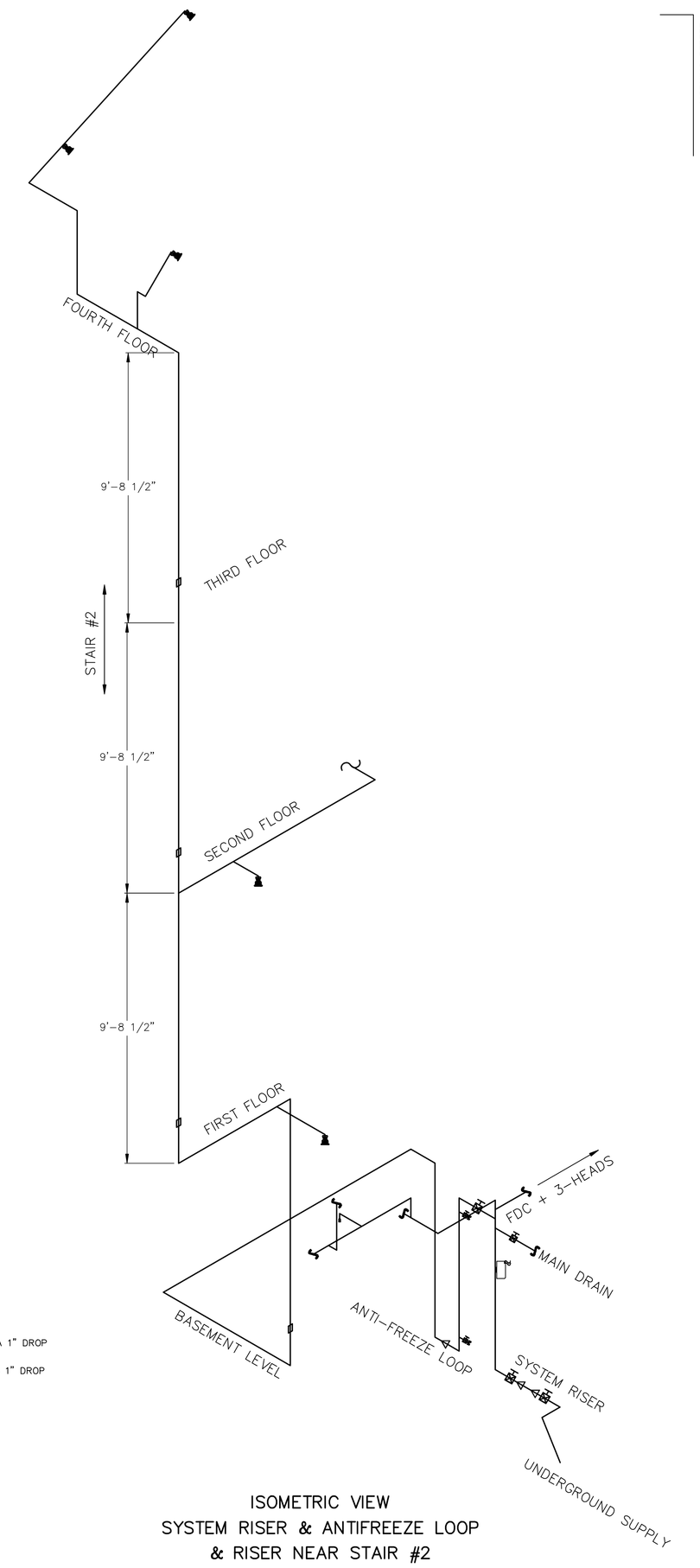
THIRD FLOOR SPRINKLER LAYOUT

SCALE ¼" = 1'-0"



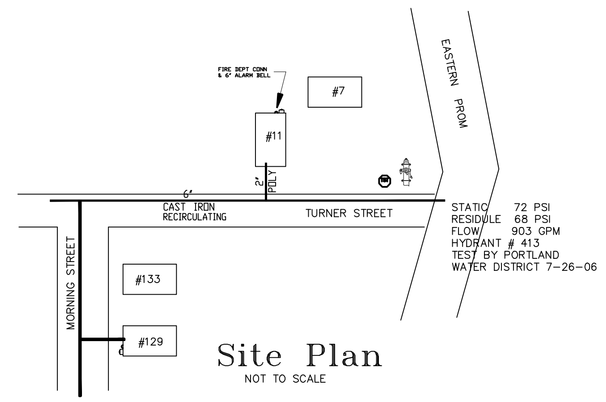
SECTION AA RISER DETAIL

SCALE ½" = 1'-0"



ISOMETRIC VIEW SYSTEM RISER & ANTIFREEZE LOOP & RISER NEAR STAIR #2

SCALE 3/8" = 1'-0"



STATIC 72 PSI
RESIDUAL 68 PSI
FLOW 903 GPM
HYDRANT # 413
TEST BY PORTLAND
WATER DISTRICT 7-26-06

Site Plan

NOT TO SCALE

LEGEND:

- ○ UPRIGHT SPRINKLER ON A BRANCH LINE
- ◉ RECESSED PENDENT SPRINKLER ON A 1" DROP
- ● CONCEALED PENDENT RFII (COMMERCIAL) SPRINKLER ON A 1" DROP
- ◉ CONCEALED PENDENT LFII (RESIDENTIAL) SPRINKLER ON A 1" DROP
- ◁ RECESSED HORIZONTAL SIDEWALL SPRINKLER
- ◀ DRY HORIZONTAL SIDEWALL SPRINKLER
- ◀ EXTENDED COVERAGE HORIZONTAL SIDEWALL SPRINKLER
- ○ RISE OR DROP
- ▯ GROOVED COUPLING
- (XX) HYDRAULIC REFERENCE POINT
- (9-0) CEILING HEIGHT
- —/— HANGER

F g= X'-X" FINISHED FLOOR TO PIPE CENTERLINE
BJ g= X'-X" BOTTOM OF JOIST TO PIPE CENTERLINE
BB g= X'-X" BOTTOM OF BEAM TO PIPE CENTERLINE
D g= X'-X" CONCRETE DECK TO PIPE CENTERLINE

GENERAL NOTES:

ALL THREADED PIPE IS TO BE SCH. 40 BLACK STEEL U/N.
ALL GROOVED PIPE IS TO BE SCH. 10 BLACK STEEL U/N.
ALL THREADED PIPE FITTINGS ARE TO BE BLACK CAST IRON, CLASS 125 U/N.
DIMENSIONS SHOWN ON THREADED PIPE ARE CENTER TO CENTER U/N.
DIMENSIONS SHOWN ON GROOVED PIPE ARE "CUT" LENGTHS U/N.
PENDENT SPRINKLERS IN ACOUSTIC TILE CEILINGS ARE NOT LOCATED IN THE CENTER OF CEILING TILE MODULES.
SUFFICIENT HEAT TO PREVENT FREEZING OF THE WET SPRINKLER SYSTEM IS REQUIRED TO BE FURNISHED BY THE BUYER/OWNER.

19 / 160° TYCO LFII SIN TY2596 WHITE FINISH
FAST RESPONSE / STANDARD COVERAGE RESIDENTIAL CONCEALED PENDENT 1/2"X1/2" K=4.2

SYSTEM CLASSIFICATION:

A WET PIPE SYSTEM OF AUTOMATIC SPRINKLERS TO BE INSTALLED IN HEATED AREAS AND AN ANTI-FREEZE SYSTEM TO BE INSTALLED IN UNHEATED THIRD FLOOR ATTIC, DESIGNED IN ACCORDANCE WITH NFPA-13R, STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS, 2007 EDITION.

SCOPE OF WORK:

SYSTEM IS HYDRAULICALLY CALCULATED TO PROVIDE A DENSITY OF 0.05 GPM WITH THE MOST REMOTE FOUR HEADS FLOWING AND A DENSITY OF .15 GPM IN THE BASEMENT / STORAGE AREAS WHILE FLOWING FOUR HEADS. IN ACCORDANCE WITH NFPA 13R, STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS, 2007 EDITION.

DEAN & ALLYN, INC.
FIRE PROTECTION · SPECIAL HAZARD
PO BOX 709, GRAY, MAINE 04039
(207)657-5646 FAX:(207)657-5647

				SCALE 1/4"=1'-0"			
				APPROVED BY	DATE		
					/ /	SURVEYED BY	JRW 4/9/08
					/ /	DRAWN BY	JRW 4/20/08
					/ /	CHECKED BY	XXX
					/ /	AT DEAN & ALLYN, INC	
		1	SUBMIT FOR APPROVAL	5/12/08	/ /	SCALE 1/4"=1'-0" U/N	
			REVISIONS	DATE	/ /	SHEET NO. 2 OF 2	

DANA A. STEWART
NICET IV - #064544

DRAWING TITLE: 3-UNIT RENOVATION

REV. 0

JOB: 3-UNIT RENOVATION
133 MORNING STREET
PORTLAND, ME 04101

NO. OF SPRINKLERS SHOWN ON THIS SHEET: 19
NO. OF SPRINKLERS ON JOB: 94

CONTRACT WITH: CRANDALL TOOTHAKER ASSOCIATES
200 HIGH ST-PORTLAND, ME 04101 PHONE:207-774-5358

CONTRACT NO. C0804780