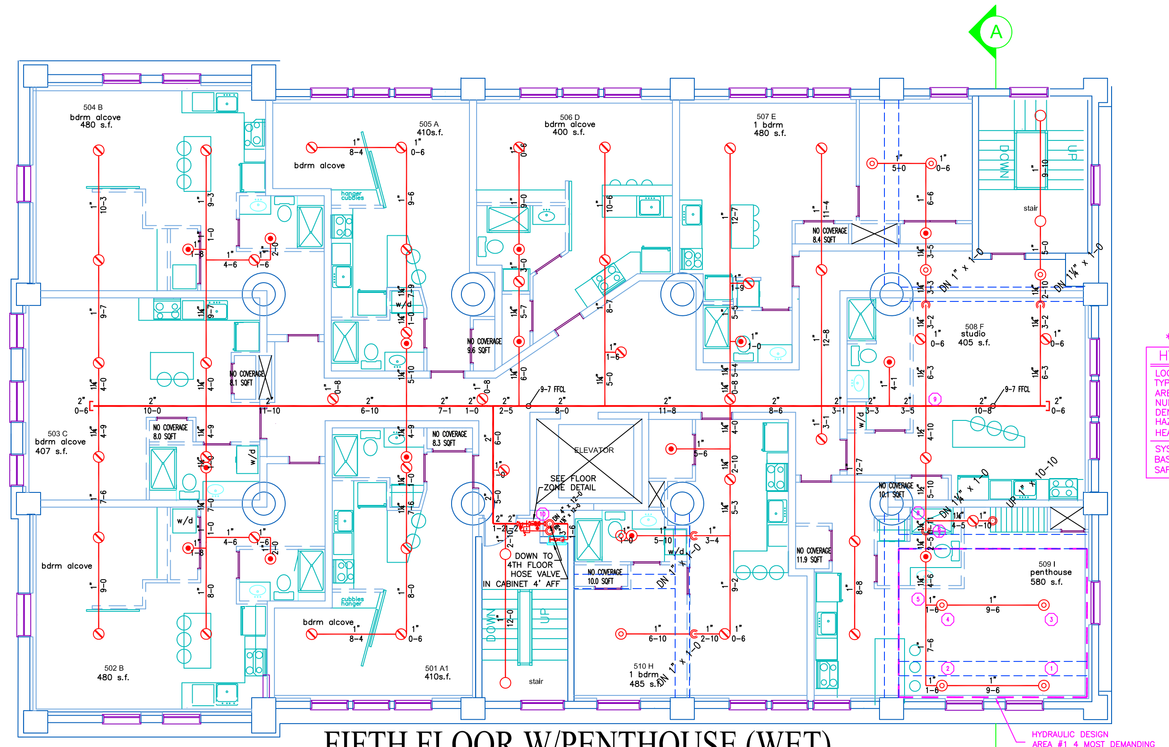
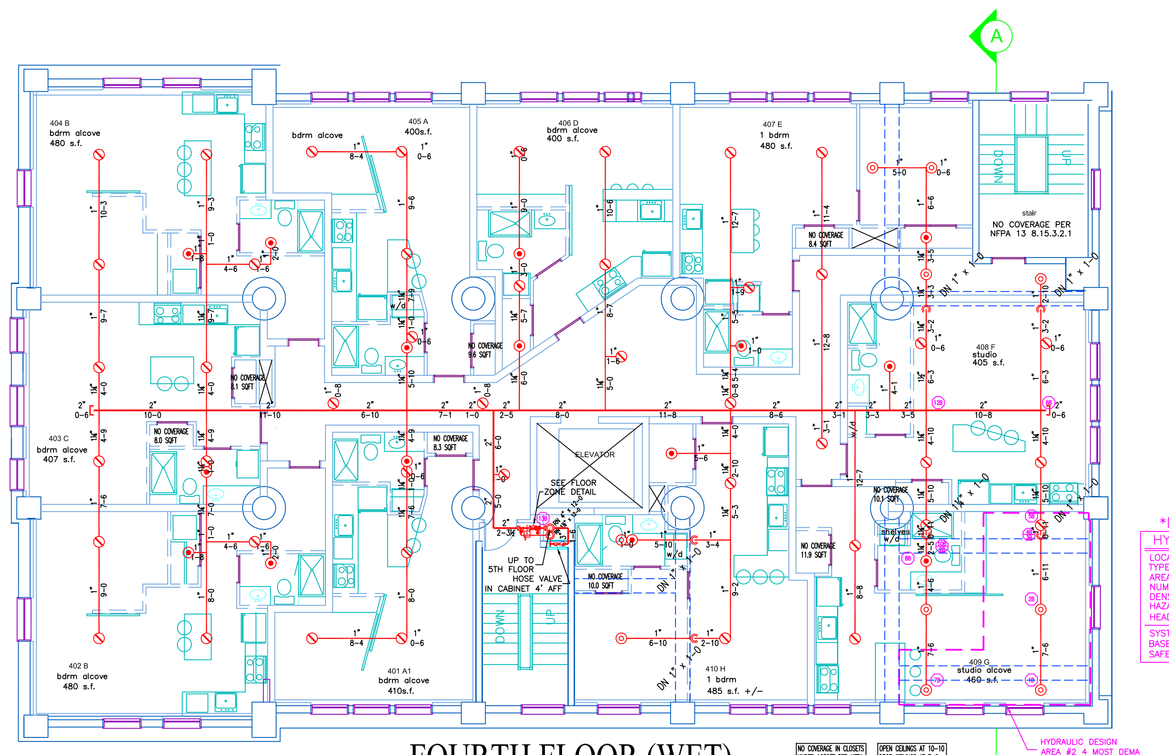


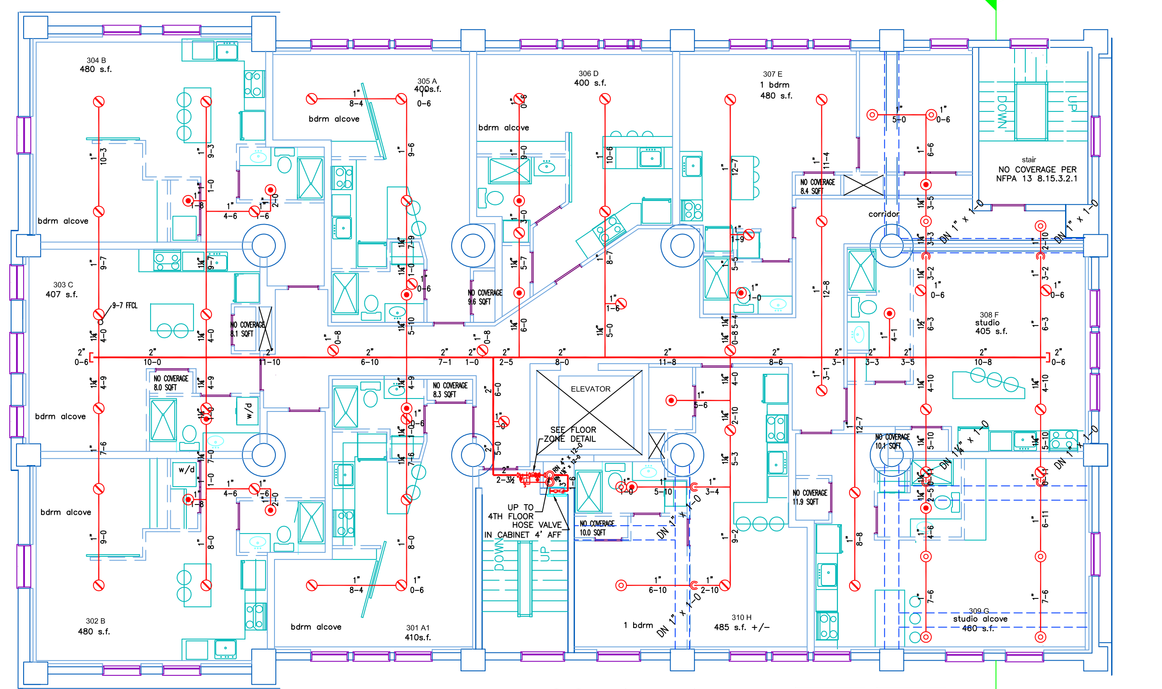
FIFTH FLOOR W/PENTHOUSE (WET)

TOTAL PROTECTED AREA 5,750 SQ.FT.
SCALE 1/8" = 1'-0"



FOURTH FLOOR (WET)

TOTAL PROTECTED AREA 5,600 SQ.FT.
SCALE 1/8" = 1'-0"



THIRD FLOOR (WET)

TOTAL PROTECTED AREA 5,600 SQ.FT.
SCALE 1/8" = 1'-0"

DESIGN AREA NUMBER 1

HYDRAULIC DESIGN CRITERIA

LOCATION= UNIT 509
TYPE OF SYSTEM= NFPA 13 WET
AREA OF OPERATION= 250-SQ.FT.
NUMBER OF SPRINKLERS= 4
DENSITY= 1 W/ HOSE DEMAND OF 100 GPM
HAZARD CLASS= LIGHT HAZARD
HEAD SPACING= 256 SQ.FT.

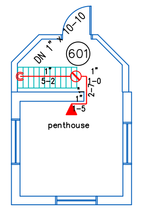
SYSTEM DEMAND INCLUDING HOSE @
BASE OF RISER= 257-GPM 102-PSI
SAFETY MARGIN= 9-PSI

DESIGN AREA NUMBER 2

HYDRAULIC DESIGN CRITERIA

LOCATION= UNIT 409
TYPE OF SYSTEM= NFPA 13 WET
AREA OF OPERATION= 220-SQ.FT.
NUMBER OF SPRINKLERS= 4
DENSITY= 1 W/ HOSE DEMAND OF 100 GPM
HAZARD CLASS= LIGHT HAZARD
HEAD SPACING= 256 SQ.FT.

SYSTEM DEMAND INCLUDING HOSE @
BASE OF RISER= 213-GPM 91-PSI
SAFETY MARGIN= 21-PSI



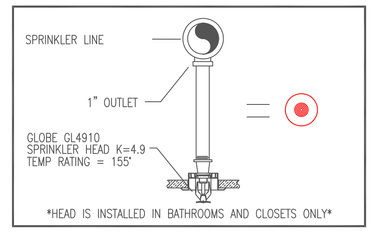
PROJECT DESCRIPTION

BUILDING CONST:
THE BUILDING IS 6 LEVELS. CONSTRUCTED OF CONCRETE, FIBERGLASS INSULATION, AND GYP BOARD CONSTRUCTION.

BUILDING OCCUPANCY:
THE BUILDING WAS BUILT & DESIGNED FOR RESIDENTIAL LIVING USAGE.

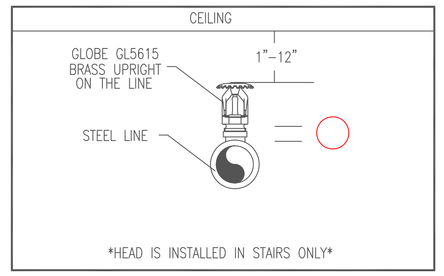
SPRINKLER SYSTEM DESIGN:
THERE IS A WET SYSTEM THROUGHOUT IN ACCORDANCE WITH NFPA 13 2010ed. FOR LIGHT HAZARD CLASSIFICATION WITH THE EXCEPTION OF MECHANICAL ROOM ON LOWER LEVEL

RESIDENTIAL LIVING SPACE COVERED WITH RESIDENTIAL UPRIGHT SPRINKLER HEADS FED FROM EXPOSED PIPING. THE SPRINKLER SYSTEM WAS DESIGNED TO MEET APPLICABLE CODE REGARDING NFPA 13 2010ed. SYSTEM.



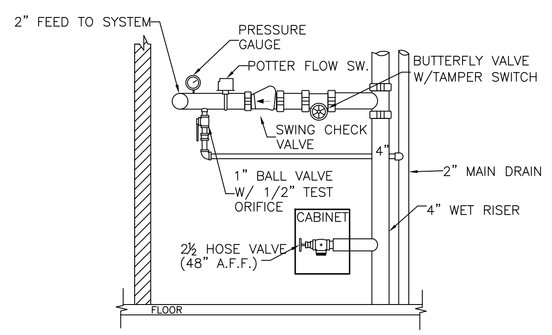
HEAD DETAIL

SCALE: N.T.S.



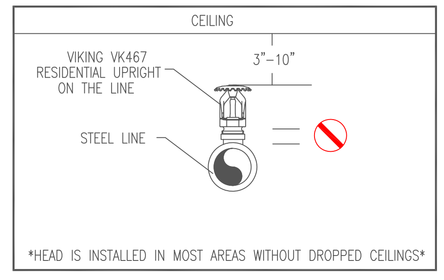
HEAD DETAIL

SCALE: N.T.S.



FLOOR ZONE DETAIL

SCALE: N.T.S.



HEAD DETAIL

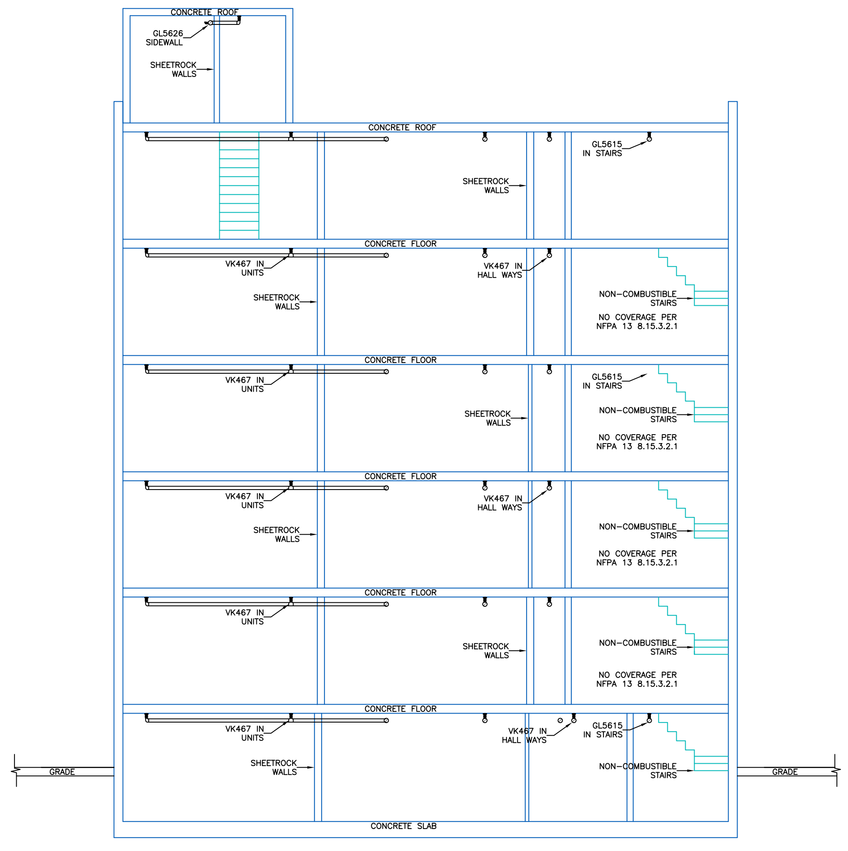
SCALE: N.T.S.

HEAD DETAIL

SCALE: N.T.S.

PLOT PLAN

SCALE: NOT TO SCALE



SECTION DETAIL "A"

SCALE: NOT TO SCALE

HIGH TECH
FIRE PROTECTION
P.O. BOX 156
MINOT, ME. 04258-0258
TEL:(207) 998-2551 FAX:(207) 998-4187
MAINE LICENSE # 102

GENERAL CONTRACTOR ON RECORD:
TONY BRAGALON
(207-219-0408)
LANDRY AND FRENCH

SPECIAL APPLICATIONS:
EXISTING PIPE TO REMAIN WHERE POSSIBLE

LEGEND:
- RN/DN PIPE RISER UP OR DOWN
- EXISTING OUTLET
- EXISTING PIPE
- PROPOSED PIPE
- SYSTEM RISER
- PIPE PITCH ¼ MAINS ½ LINES
- SWAY BRACING
- HYDRAULIC CALC. POINT

DESIGN & SYSTEM NOTES:

POSITION, LOCATION, SPACING, AND USE OF SPRINKLERS SHALL BE IN ACCORDANCE WITH NFPA 13.

POSITION, LOCATION, SPACING, AND USE OF HANGERS SHALL BE IN ACCORDANCE WITH NFPA 13.

HYDRAULIC CALCULATION PROCEDURES HAVE BEEN DONE IN ACCORDANCE WITH NFPA 13. (SEE PLANS FOR LOCATION OF REMOTE AREAS, HYDRAULIC REFERENCE POINTS, AND SYSTEM DEMANDS.)

HIGH TECH FIRE PROTECTION IS TO BEGIN WORK AT 6" MAIN IN SPRINKLER ROOM

DIMENSIONS AND LOCATIONS GIVEN FOR SPRINKLER HEADS AND PIPE MAY VARY TO ACCOMMODATE ACTUAL FIELD CONDITIONS.

OWNER TO PROVIDE ADEQUATE HEAT THROUGHOUT BUILDING TO PROTECT WATER FILLED PIPING AND EQUIPMENT FROM FREEZING TEMPERATURES.

ONLY TRI-SEAL TYPE COUPLINGS TO BE INSTALLED ON DRY AND OR PRE-ACTION SYSTEMS.

OWNER IS RESPONSIBLE TO MAINTAIN THE SPRINKLER SYSTEM IN ACCORDANCE WITH THE LATEST EDITION OF NFPA 25, "INSPECTION, TESTING, & MAINTENANCE OF WATER-BASED FIRE PROTECTION SYSTEMS" AND/OR ALL APPLICABLE FEDERAL, STATE, AND/OR LOCAL LAWS, CODES AND ORDINANCES.

ALL MECHANICAL, ELECTRICAL AND PLUMBING TRADES TO COORDINATE THEIR WORK WITH SPRINKLER CONTRACTOR.

ALL ELECTRIC WORK IS TO BE DONE BY OTHERS.

HEAD LEGEND:

GLOBE
GL5615
4 /155°
K=5.6
1/2" BRASS UPRIGHT
DEFLECTORS 1" TO 12"
BELOW CEILINGS
(14' X 14' MAX)

VIKING
VK467
ON SPRIGS / ON LINE
158 /155°
K=4.9
1/2" RESIDENTIAL
BRASS UPRIGHT
DEFLECTORS 3" TO 10"
BELOW CEILINGS
(16' X 16' MAX)

GLOBE
MODELGL5626
1 /155°
K=5.6
1/2" HORIZONTAL SIDEWALL
(14' X 14' MAX)

GLOBE
GL4910
4.3 /155°
K=4.9
1/2" SEMI-RECESSED
RESIDENTIAL WHITE PENDENT
(16' X 16' MAX)

OR APPROVED EQUAL

TOTAL HEADS ON THIS SHEET: 206

SCALE: 2 1 0 4 8
1/8"=1'-0"

REVISIONS:
NO. DATE: DESCRIPTION:

DATE: MAY 24, 2016
DESIGNER: ED PENNELL
CHECKED BY: E.POULIN (RMS# 515)
NICET LEVEL: IV 108534

LOCATION:
117 PREBLE STREET
PORTLAND, ME

DRAWING TITLE:
SCHLOTTERBECK
BLOCK PROJECT
FIRE PROTECTION PLAN
(NFPA 13 2010ed.)

DRAWING NO.:
FP-02