

**PROJECT DESCRIPTION**

THE BUILDING IS 3 LEVELS + ATTIC. CONSTRUCTED OF WOOD FRAMING, FIBERGLASS STEEL SPRINKLER PIPING AS SHOWN ON PLAN.

**BUILDING OCCUPANCY:**  
RESIDENTIAL LIVING USAGE. UNOCCUPIED ATTIC SPACE SPRINKLER SYSTEM DESIGN.

THE BUILDING WAS BUILT & DESIGNED FOR HOTEL OVERNIGHT SPRINKLER SYSTEM DESIGN.

ADDITION A 4' BULK FEED WILL BE MAIN FROM THE VALVE ROOM TO THE ADDITION TO FEED A WET ZONE VALVE FOR EACH FLOOR AND A DRY VALVE FOR THE ATTIC LOCATED ON THE 3RD. EACH FLOOR WILL HAVE ITS OWN WET ZONE VALVE. A DRY VALVE LOCATED ON THE 3RD FLOOR WILL PROTECT THE OVERNIGHT RESIDENTIAL ROOMS AND CORRIDORS PROTECTED WITH RESIDENTIAL PENDENT SPRINKLER HEADS FED FROM STEEL PIPING ABOVE OR HORIZONTAL SPERMALERS IN THE SOFFITS ON THE 3RD. THE SPRINKLER SYSTEM IS UNOCCUPIED LIGHT HAZARD PER NFPA 13. TO PROPERLY INSULATE AROUND SPRINKLER PIPING TO PREVENT WATER LEAKS FROM FREEZING.

ADDITIONAL NOTES: THE SPRINKLER SYSTEM WAS DESIGNED TO MEET ALL APPLICABLE CODES REGARDING NFPA 13 2010ED. SYSTEM.

**NOTES FOR NFPA 13 2010ED. SYSTEM**

SPRINKLERS SHALL BE INSTALLED IN ALL AREAS.

(13) 3.3.17 SMALL ROOMS  
A ROOM OR LIGHT HAZARD OCCUPANCY CLASSIFICATION EXCEEDING 900 SQ FT THAT ARE ENCLOSED BY WALLS AND A WET ZONE VALVE SHALL BE A HEAD SPACED 9 FT ON ONE WALL.  
(13) 9.2.1 SYSTEM PROTECTION LEVEL  
THE MAXIMUM FLOOR AREA ON ANY ONE FLOOR TO BE SPRINKLER SYSTEM SHALL NOT EXCEED 5,000 SQ FT.  
(13) 9.2.2 SPRINKLER SYSTEM DESIGN  
RESIDENTIAL ROOMS SHALL BE UNOCCUPIED ATTIC SPACE SPRINKLER SYSTEM DESIGN.  
(13) 15.15.1.1 SPRINKLERS SHALL NOT BE REQUIRED IN ATTIC ROOMS ON THE PRELIMINARY DATE OF THE PLAN. SPRINKLERS THAT HAVE BEEN RECALCULATED ON BASIS SHOWN IN ANY PLAN CAN BE REMOVED.  
(13) 15.15.1.2 SPRINKLERS SHALL NOT BE REQUIRED IN ATTIC ROOMS WHERE ALL OF THE FOLLOWING CONDITIONS ARE MET:  
(1) THE ROOM IS UNOCCUPIED.  
(2) THE ROOM IS NOT A LIGHT HAZARD.  
(3) THE ROOM IS NOT A LIGHT HAZARD.  
(4) NO COMBUSTIBLE STORAGE IS PERMITTED TO BE STORED IN THE ROOM.  
(5) EACH ELEVATOR HOISTWAY SHALL BE NOT MORE THAN 18" ABOVE THE ELEVATOR HOISTWAY.

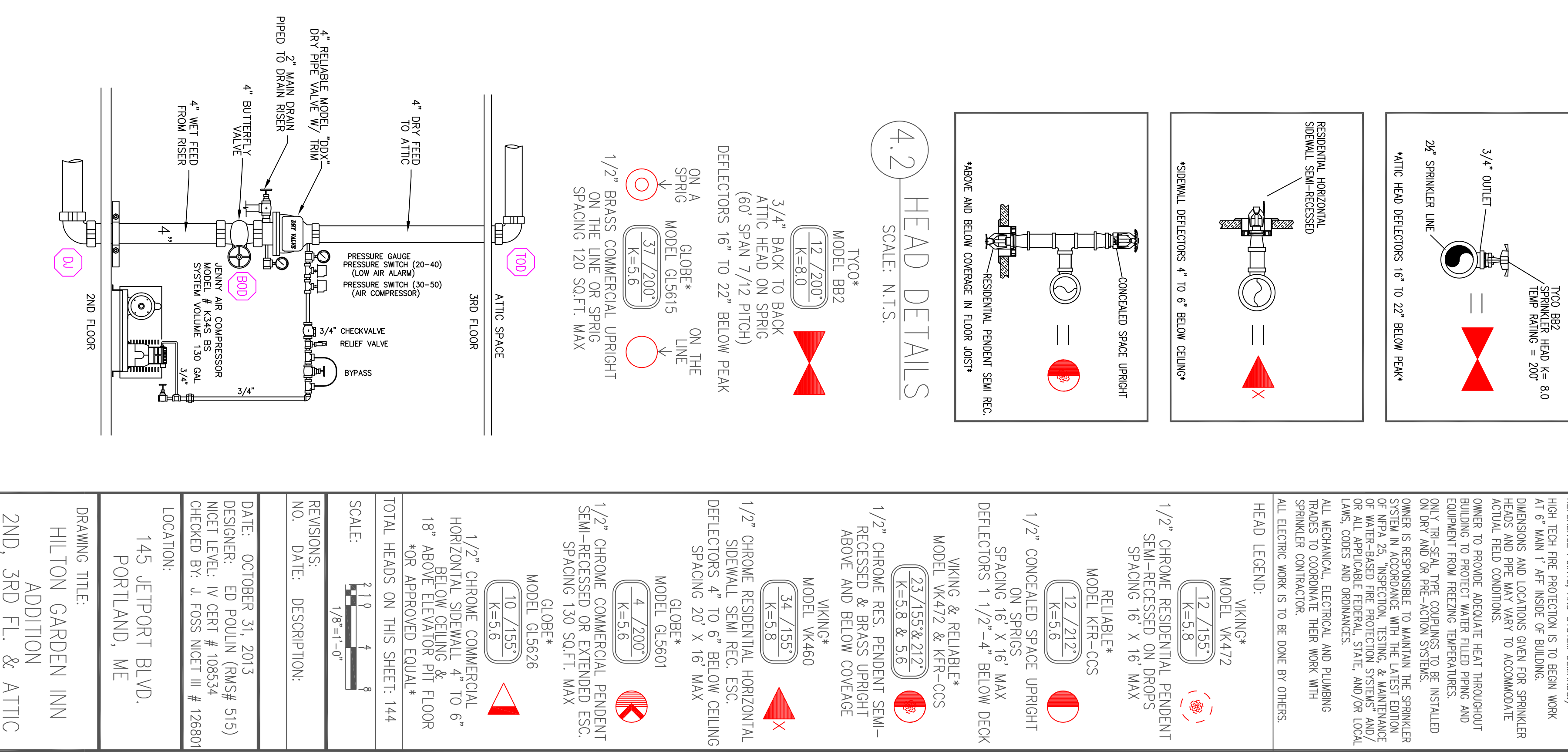
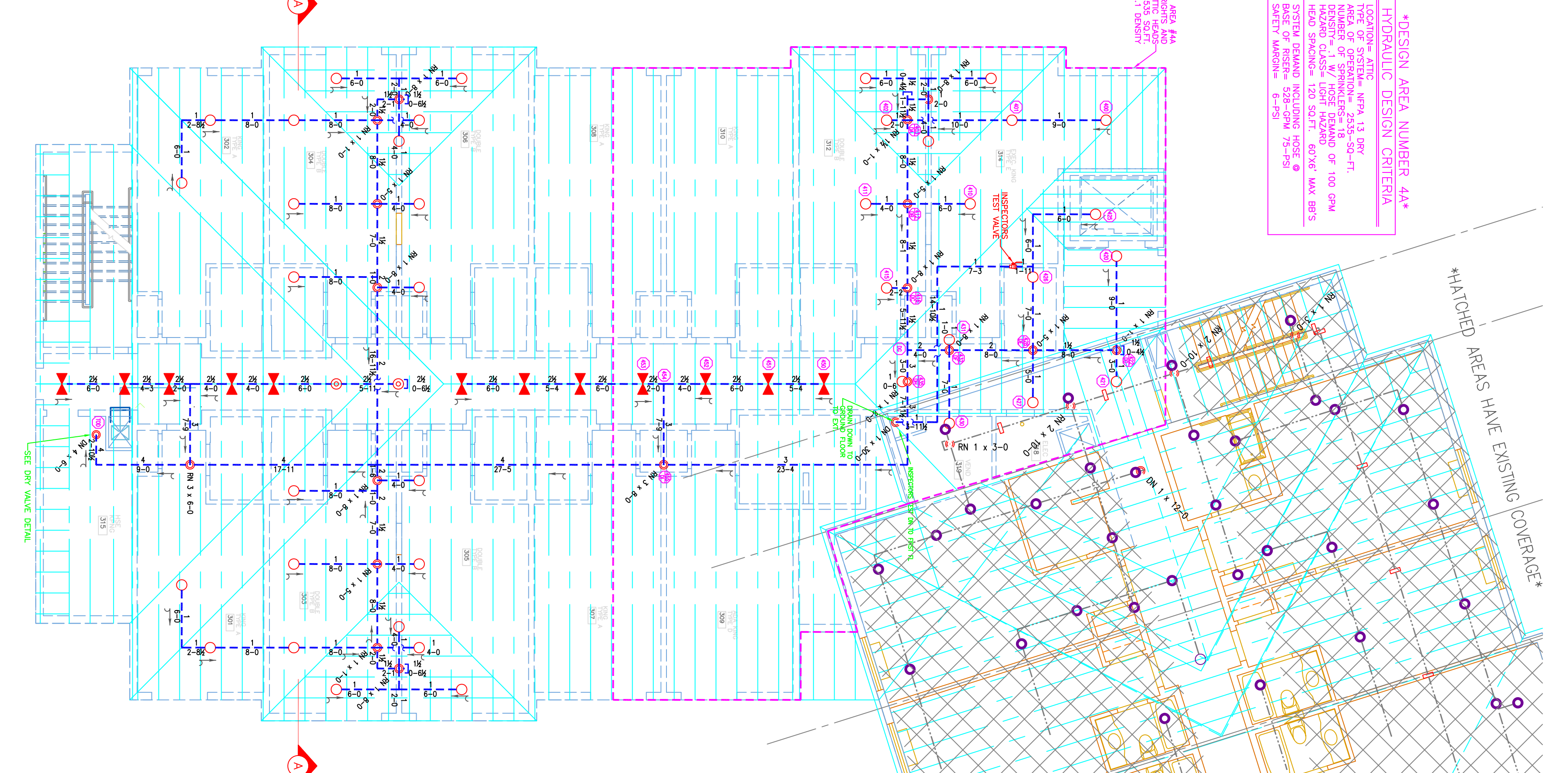
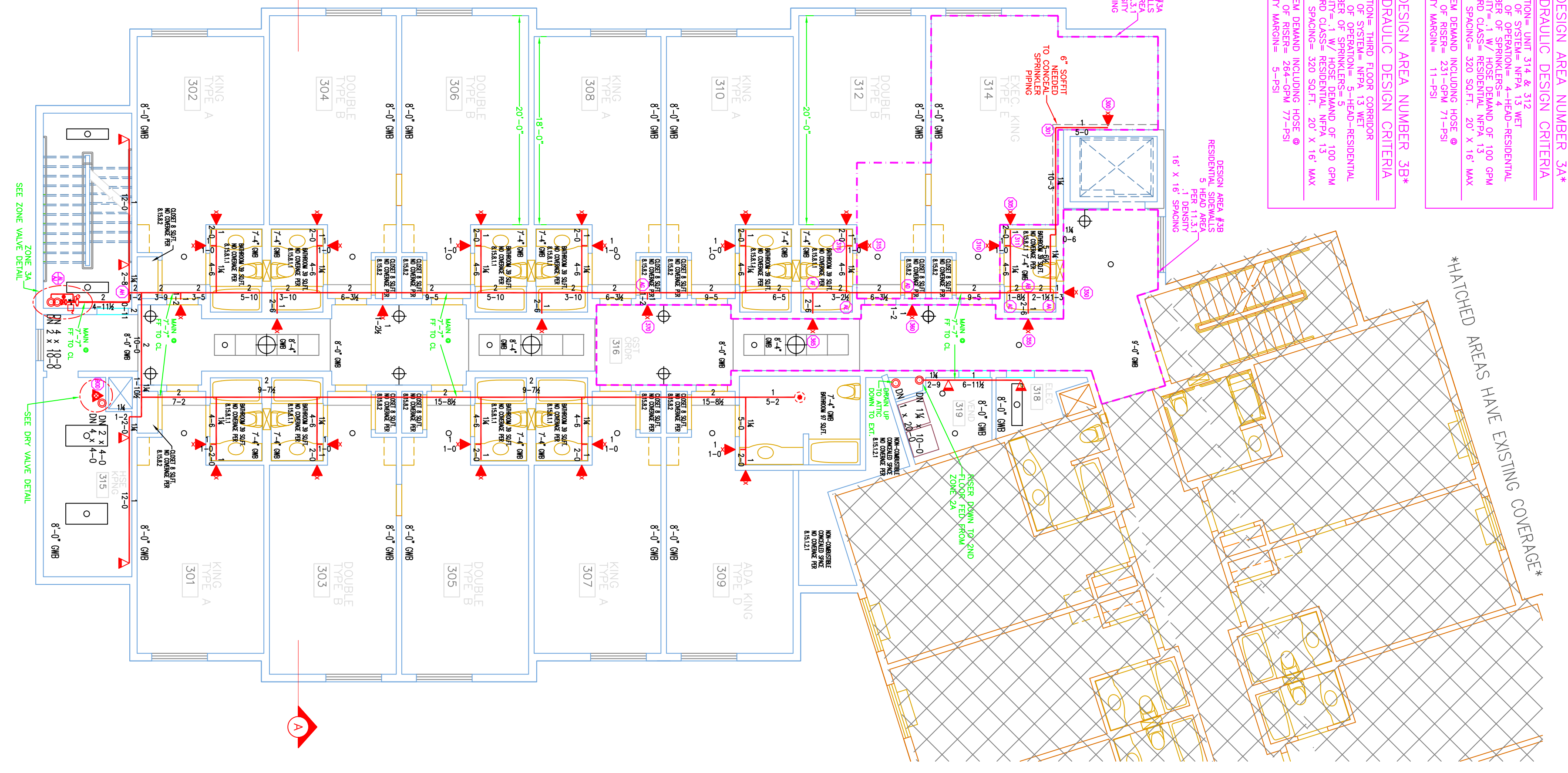
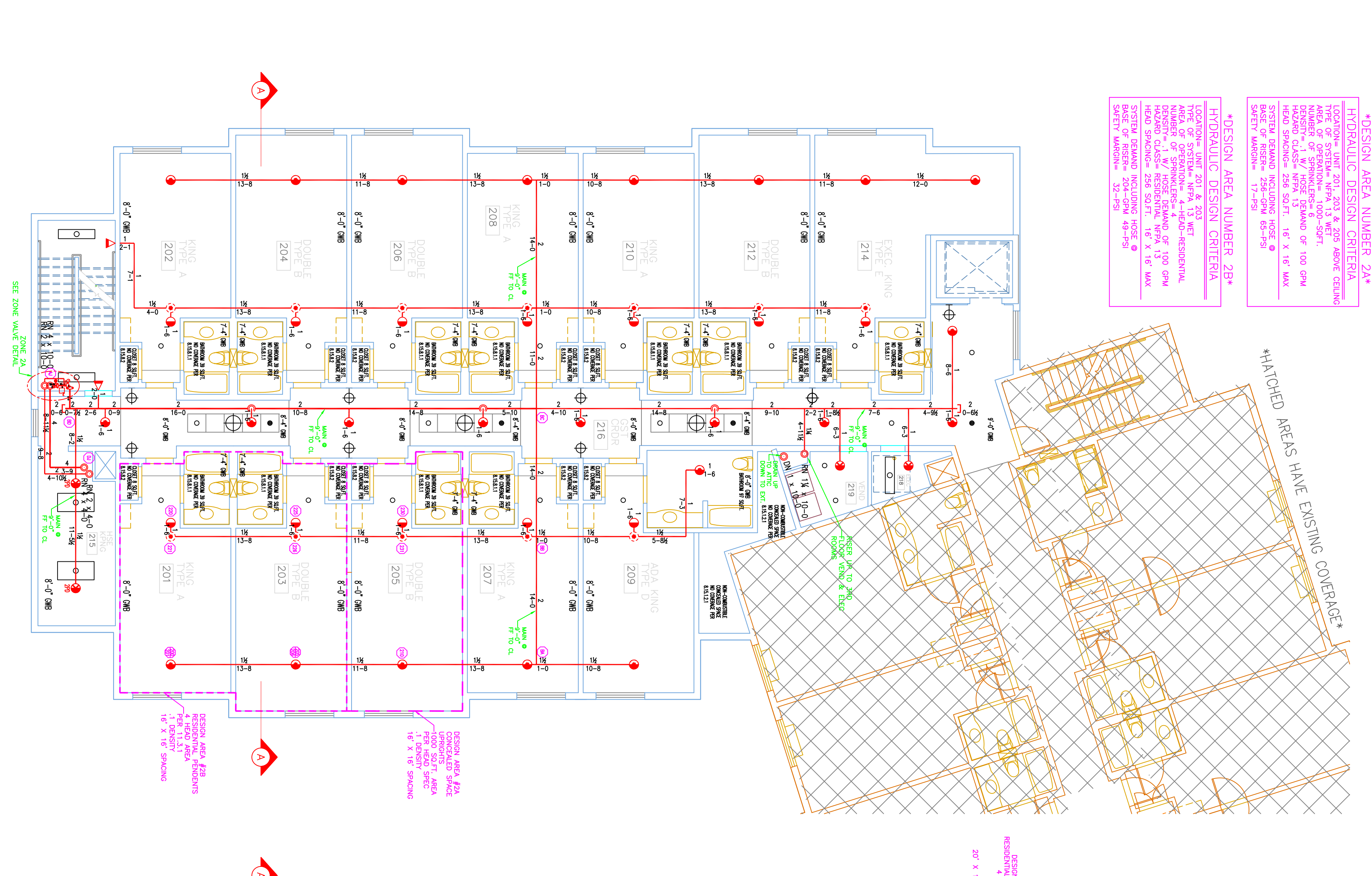
(13) 15.15.1.3 SPRINKLERS SHALL NOT BE REQUIRED IN ATTIC ROOMS ON THE PRELIMINARY DATE OF THE PLAN. SPRINKLERS THAT HAVE BEEN RECALCULATED ON BASIS SHOWN IN ANY PLAN CAN BE REMOVED.  
(13) 15.15.1.4 SPRINKLERS SHALL NOT BE REQUIRED IN ATTIC ROOMS WHERE ALL OF THE FOLLOWING CONDITIONS ARE MET:  
(1) THE ROOM IS UNOCCUPIED.  
(2) THE ROOM IS NOT A LIGHT HAZARD.  
(3) THE ROOM IS NOT A LIGHT HAZARD.  
(4) NO COMBUSTIBLE STORAGE IS PERMITTED TO BE STORED IN THE ROOM.  
(5) EACH ELEVATOR HOISTWAY SHALL BE NOT MORE THAN 18" ABOVE THE ELEVATOR HOISTWAY.

**LEGEND:**

- PIPE RISER UP OR DOWN
- EXISTING DRY SYSTEM PIPING
- WET SYSTEM PIPING
- SYSTEM ROSES
- HYDRAULIC CALC. POINT

**DESIGN & SYSTEM NOTES:**

- ALL PIPING 1/2" & LARGER TO BE SCHEDULE 40 WITH APPROVED BUTTE RIVET FITTING.
- POSITION, LOCATION, SPACING, AND USE OF SPRINKLERS SHALL BE IN ACCORDANCE WITH NFPA 13.
- HYDRANT CALCULATIONS HAVE BEEN DONE IN ACCORDANCE WITH NFPA 13. SEE PLANS FOR ALL APPLICABLE FEDERAL, STATE, AND/OR LOCAL REGULATORY AGENCIES AND CODES OF HAWKERS.
- HYDRANT CALCULATION PROCEDURES HAVE BEEN DONE IN ACCORDANCE WITH NFPA 13. SEE PLANS FOR ALL APPLICABLE FEDERAL, STATE, AND/OR LOCAL REGULATORY AGENCIES AND CODES OF HAWKERS.
- HIGH TECH FIRE PROTECTION IS TO BE DONE BY A MANUFACTURER WHOSE WORK IS TO BE ACCREDITED TO ACCOMMODATE ACTUAL FIELD CONDITIONS.
- OWNERS TO PROVIDE FACTORS FOR HEAD THROUGHOUT THE SYSTEM TO BE IN ACCORDANCE WITH NFPA 13.
- SYSTEMS SHALL BE DESIGNED TO BE IN ACCORDANCE WITH NFPA 13, INSPECTION TESTING & MAINTENANCE OF FIRE PROTECTION SYSTEMS (NFPA 25).
- ALL ELECTRICAL, ELECTRICAL AND PLUMBING SPRINKLER COMPANION.
- ALL ELECTRICAL WORK IS TO BE DONE BY OTHERS.



**4.2 HEAD DETAILS**

SCALE: N.T.S.

1/2" CHROME RESIDENTIAL PENDENT SEMI-RECESSED OR EXTENDED ESC. SPACING 16' X 16' MAX.

1/2" CHROME COMMERCIAL PENDENT SEMI-RECESSED OR EXTENDED ESC. SPACING 20' X 16' MAX.

1/2" CHROME COMMERCIAL PENDENT SEMI-RECESSED OR EXTENDED ESC. SPACING 120 SQ.FT. MAX.

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**GENERAL CONTRACTOR ON RECORD:**  
MIDWAYERS CONSTRUCTION, INC.  
PROJECT #207-615-0294  
CELL #603-541-2282

**SPECIAL APPLICATIONS:**  
CENTER OF TILE IN ACIT.

**NAME LICENSE # 102**

**GENERAL CONTRACTOR ON RECORD:**  
MIDWAYERS CONSTRUCTION, INC.  
PROJECT #207-615-0294  
CELL #603-541-2282

**DATE:** OCTOBER 31, 2013

**DESIGNER:** ED COLLIN (GENS 515)

**CHECKED BY:** AL FOSS (MELT # 12901)

**LOCATION:**  
145 JETPORT BLVD.  
PORTLAND, ME

**DRAWING TITLE:**  
HILTON GARDEN INN  
ADDITION  
2ND, 3RD FL. & ATTIC  
FIRE PROTECTION PLAN  
(NFPA 13 2010ed.)

**DRAWING NO.:** FP-02

**LEGEND:**

- PIPE RISER UP OR DOWN
- EXISTING DRY SYSTEM PIPING
- WET SYSTEM PIPING
- SYSTEM ROSES
- HYDRAULIC CALC. POINT

**DESIGN & SYSTEM NOTES:**

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**HEAD LEGEND:**

- WIKING\* MODEL WK472
- RELIABLE\* MODEL KFR-CSS
- 1/2" CHROME RESIDENTIAL PENDENT SEMI-RECESSED OR EXTENDED ESC. SPACING 16' X 16' MAX
- 1/2" CHROME COMMERCIAL PENDENT SEMI-RECESSED OR EXTENDED ESC. SPACING 20' X 16' MAX
- 1/2" CHROME COMMERCIAL PENDENT SEMI-RECESSED OR EXTENDED ESC. SPACING 120 SQ.FT. MAX

**SCALE:** 1/8" = 1'-0"

**REVISIONS:**  
NO. DATE: DESCRIPTION:

**DATE:** OCTOBER 31, 2013

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