

**NOTES FOR SPRINKLER COVERAGE WITHIN DWELLING UNITS**

**BATHROOMS:**  
 8.15.8.1.1 - UNLESS SPRINKLERS ARE REQUIRED BY 8.15.8.1.2 OR 8.15.8.1.3, SPRINKLERS SHALL NOT BE REQUIRED IN BATHROOMS THAT ARE LOCATED WITHIN DWELLING UNITS, THAT DO NOT EXCEED 55 SQUARE FEET IN AREA, AND THAT HAVE WALLS AND CEILINGS OF NONCOMBUSTIBLE OR LIMITED-COMBUSTIBLE MATERIALS WITH A 15-MINUTE THERMAL BARRIER RATING, INCLUDING THE WALLS AND CEILING BEHIND ANY SHOWER ENCLOSURE OR TUB.  
 8.15.8.1.2 - SPRINKLERS SHALL BE REQUIRED IN BATHROOMS OF LIMITED CARE FACILITIES AND NURSING HOMES AS DEFINED IN NFPA 101.  
 8.15.8.1.3 - SPRINKLERS SHALL BE REQUIRED IN BATHROOMS OPENING DIRECTLY ONTO PUBLIC CORRIDORS OR EXITWAYS.  
**CLOSETS AND PANTRIES:**  
 8.15.8.2 - SPRINKLERS ARE NOT REQUIRED IN CLOSET, CLOSET, LINEN CLOSET, AND PANTRIES WITHIN DWELLING UNITS IN HOTELS AND MOTELS WHERE THE AREA OF THE SPACE DOES NOT EXCEED 24 SQUARE FEET AND THE WALLS AND CEILINGS ARE SURFACED WITH NONCOMBUSTIBLE OR LIMITED-COMBUSTIBLE MATERIALS.

RESIDENTIAL PENDENT CALC STICKER  
**HYD. DESIGN CRITERIA**  
 (NFPA 13 2016 ed. - WET)  
 LOCATION=MKS ACCESSIBLE UNIT (SIXTH FLOOR)  
 HAZARD CLASSIFICATION: LIGHT  
 DENSITY= 1 GPM/SQ. FT.  
 AREA OF OPERATION= 428 SQ. FT.  
 HOSE DEMAND: 100 GPM  
 NO. OF SPRINKLERS= 4 MOST DEMANDING  
 SYSTEM DEMAND (INCLUDING HOSE) @ BASE OF RISER= 227 GPM @ 143-PSI  
 SAFETY MARGIN= 18-PSI

RESIDENTIAL SIDEWALL CALC STICKER  
**HYD. DESIGN CRITERIA**  
 (NFPA 13 2016 ed. - WET)  
 LOCATION=METRO KING UNITS (SIXTH FLOOR)  
 HAZARD CLASSIFICATION: LIGHT  
 DENSITY= 1 GPM/SQ. FT.  
 AREA OF OPERATION= 472 SQ. FT.  
 HOSE DEMAND: 100 GPM  
 NO. OF SPRINKLERS= 4 MOST DEMANDING  
 SYSTEM DEMAND (INCLUDING HOSE) @ BASE OF RISER= 227 GPM @ 143-PSI  
 SAFETY MARGIN= 7-PSI

**PROJECT DESCRIPTION**

**BUILDING CONST:** THE BUILDING IS CONSTRUCTED OF TYPE II NON COMBUSTIBLE CONSTRUCTION THROUGHOUT. THE FIRST FLOOR CONTAINS ALL COMMERCIAL TYPE SPACES FOR THE HOTEL WHILE THE SECOND FLOOR CONTAINS SOME COMMERCIAL SPACE AND SOME GUESTROOMS. THE UPPER FOUR FLOORS CONTAIN ALL GUESTROOMS. THE BUILDING IS CONSTRUCTED OF STEEL JOISTS AND I-BEAMS WITH A STEEL ROOF DECK. THE ROOF STRUCTURE IS FINISHED WITH AN EPDM RUBBER MEMBRANE. INTERIOR WALLS ARE FRAMED WITH METAL STUDS AND FINISHED WITH G.W.B. CEILINGS ARE EITHER A.C.T. OR G.W.B. AS INDICATED.  
**BUILDING OCCUP:** THE BUILDING HOUSES THE AC HOTEL PART OF THE MARRIOTT HOTEL CHAIN.  
**SPRINKLER DESIGN:** THE SPRINKLER SYSTEM IS A WET PIPE SYSTEM THROUGHOUT AND HAS BEEN DESIGNED USING A LIGHT HAZARD CLASSIFICATION THROUGHOUT WITH THE EXCEPTION OF A FEW SMALL MECHANICAL / STORAGE AREAS. A FOUR HEAD CALCULATION HAS BEEN UTILIZED FOR THE UPPER FLOORS CONTAINING ONLY GUESTROOMS. A 1,500 SQUARE FOOT CALCULATION HAS BEEN UTILIZED FOR THE SECOND FLOOR AREA THAT IS OPEN TO THE FIRST FLOOR BELOW. THE SPRINKLER SYSTEM HAS BEEN DESIGNED TO MEET ALL APPLICABLE CODES AND STANDARDS REGARDING AN NFPA 13 2016 ed SYSTEM. THE STANDPIPE SYSTEM HAS BEEN DESIGNED AS A MANUAL WET SYSTEM IN ACCORDANCE WITH NFPA 14 2016.

