Hydraulic Design Information Sheet

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Name - Northwest Regional Youth Center - Area #1
                                                                   Date - 04-29-16
Location - Dormitory
                                                        System No. - pre-action
Building - Northwest Regional Youth Center
Contractor -
                                                         Contract No. -
Calculated By - Paul C. Link, P.E.
                                                         Drawing No. - 5
Construction: ( ) Combustible (X) Non-Combustible Ceiling Height - 13'
Occupancy - Dorm / educational
  (X) NFPA 13 (X) Lt. Haz. Ord.Haz.Gp. ( ) 1 ( ) 2 ( ) 3 ( ) Ex.Haz. ( ) NFPA 231 ( ) NFPA 231C ( ) Figure Curve
Υ
    Other
S
Τ
    Specific Ruling
                                             Made By
                                                                   Date
Ε
    Area of Sprinkler Operation - 1500
                                                 System Type Sprinkler/Nozzle ( ) Wet Make
M
    Density - 0.1
Area Per Sprinkler - 150
                                                ( ) Wet
( ) Dry
                                                () Dry Model
() Deluge Size 1/2"
(X) Preaction K-Factor 5.6
() Other Temp.Rat.155
D
   Elevation at Highest Outlet - 13
Hose Allowance - Inside -
Rack Sprinkler Allowance -
Hose Allowance - Outside - 100
Ε
S
Ι
     Note
Calculation Flow Required - 340 Press Required - 91.2
Summary C-Factor Used: 100 Overhead 140 Underground
W
    Water Flow Test:
                                      Pump Data:
                                                               Tank or Reservoir:
A
    Date of Test - 01-14-2016
                                                               Cap. -
T
    Time of Test
                                   Rated Cap. -
                                                            Elev.-
E
    Static Press - 101
                                   @ Press
R
    Residual Press - 99
                                   Elev.
                                                                   Well
                    - 770
                                                                  Proof Flow
    Elevation
U
   Location - Flow hydrant: west of site
   Static / residual hydrant: front of building by west driveway
    Source of Information - KCMO Water Dept. and Jayhawk Fire Sprinkler Co.
                                        Class Location Area Aisle W.
   Commodity
С
0
    Storage Ht.
    Storage Method: Solid Piled
M
                                        % Palletized %
                                                                      Rack
M
        ( ) Single Row ( ) Conven. Pallet ( ) Auto. Storage ( ) Encap. ( ) Double Row ( ) Slave Pallet ( ) Solid Shelf ( ) Non
       ( ) Double Row ( ) Slave Pallet
S R
T A
      ( ) Mult. Row
                                                ( ) Open Shelf
0 C
      Flue Spacing
Longitudinal
R K
                                              Clearance: Storage to Ceiling
                                              Transverse
Α
G
Ε
       Horizontal Barriers Provided:
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