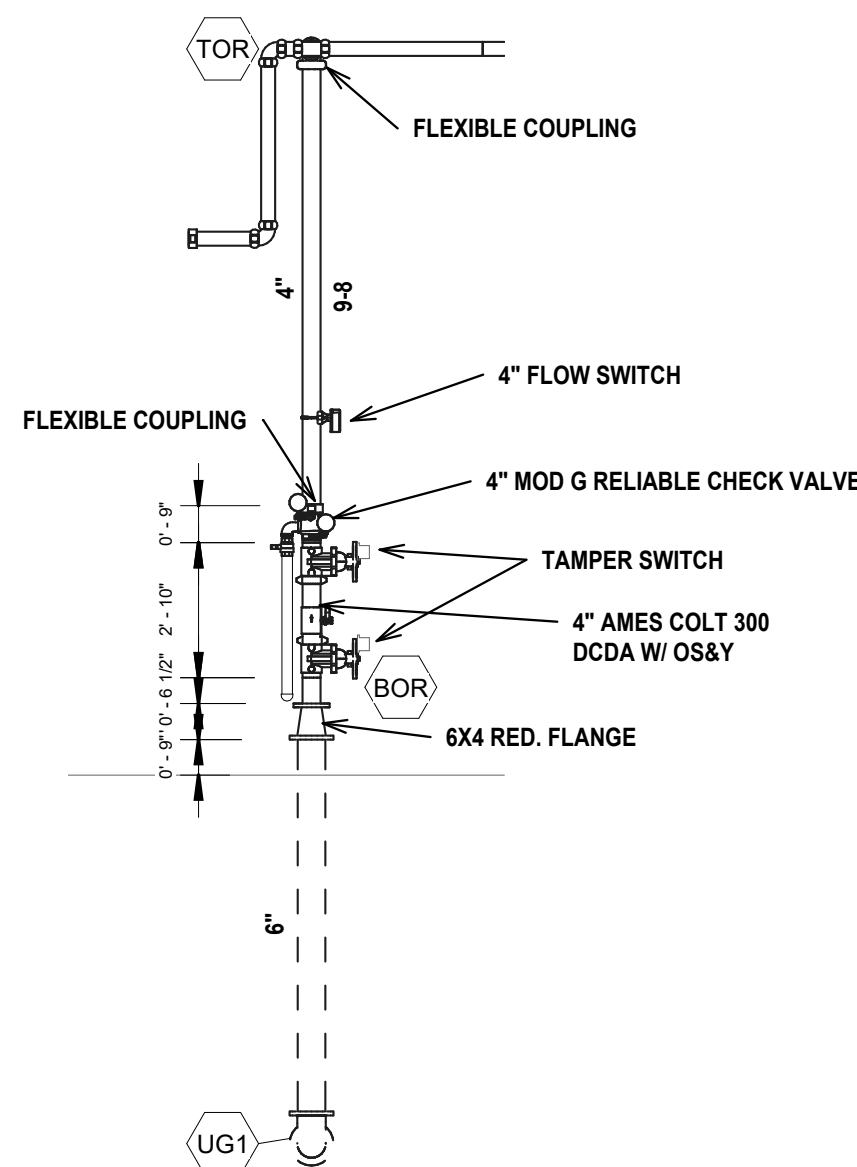


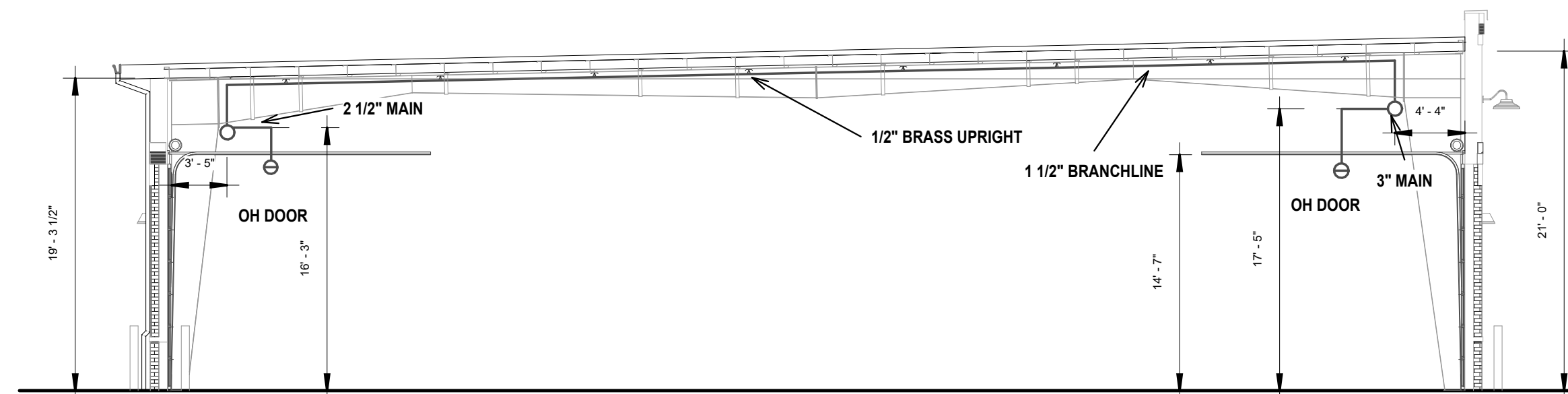
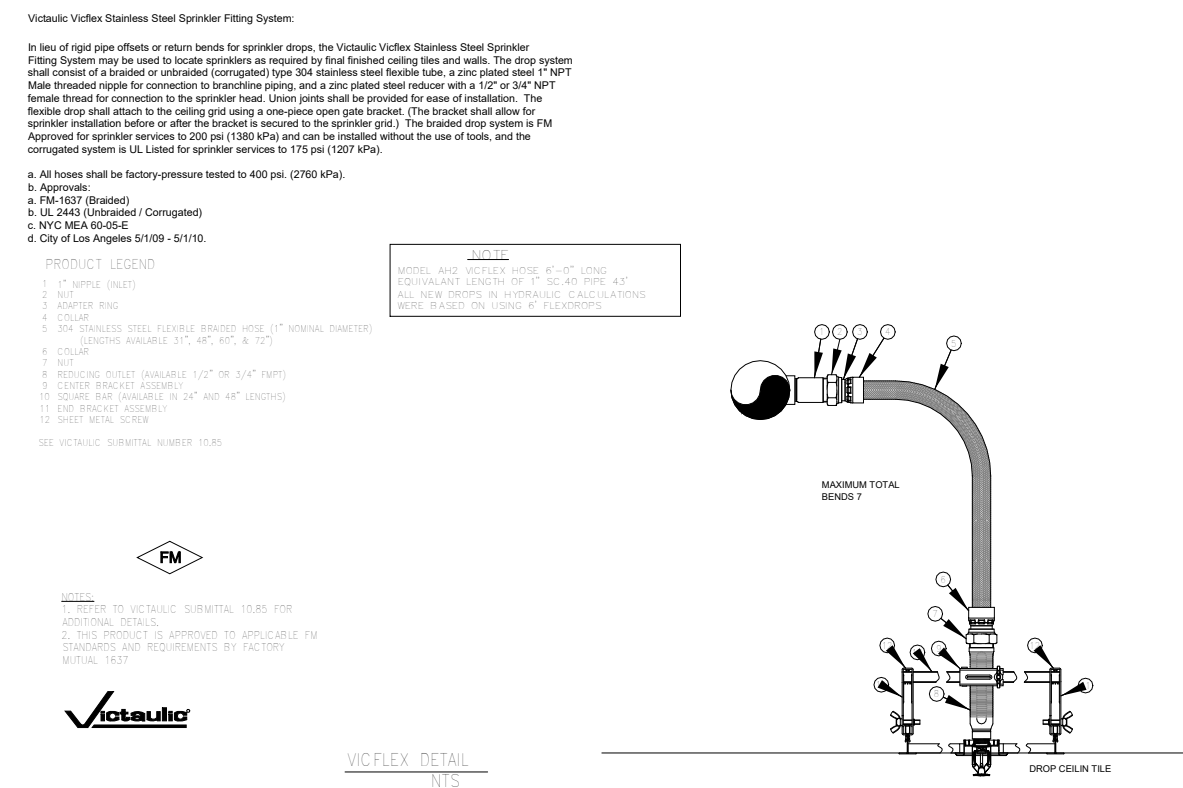
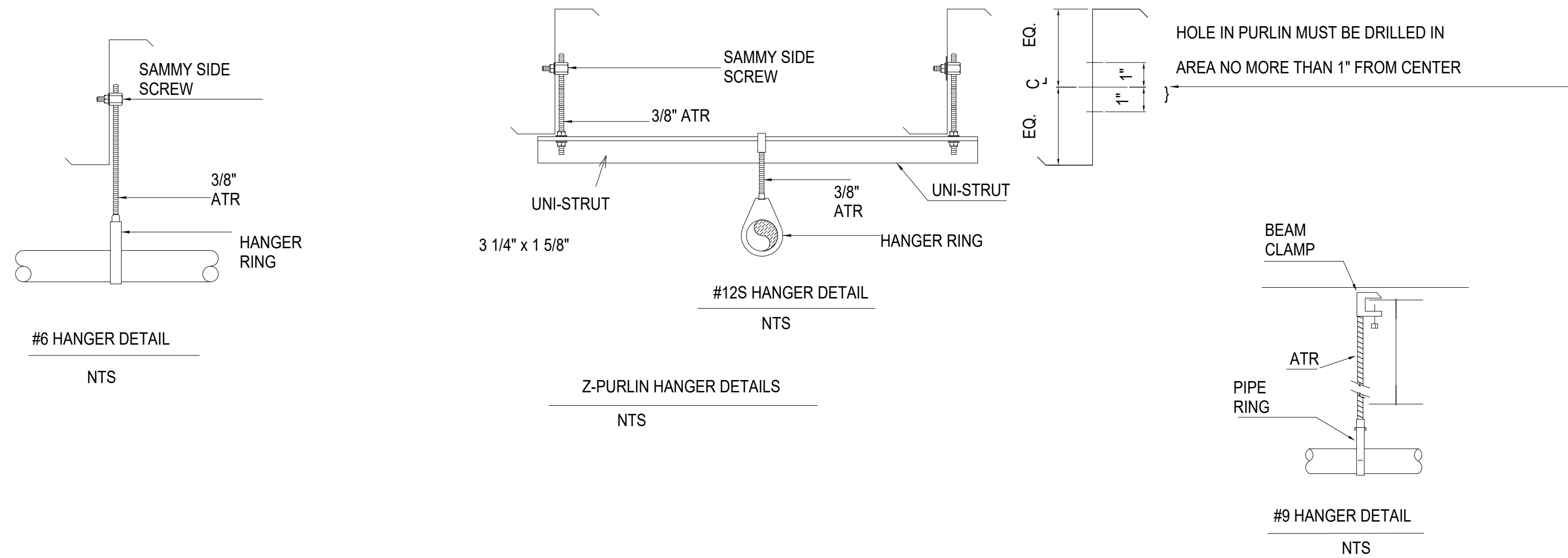
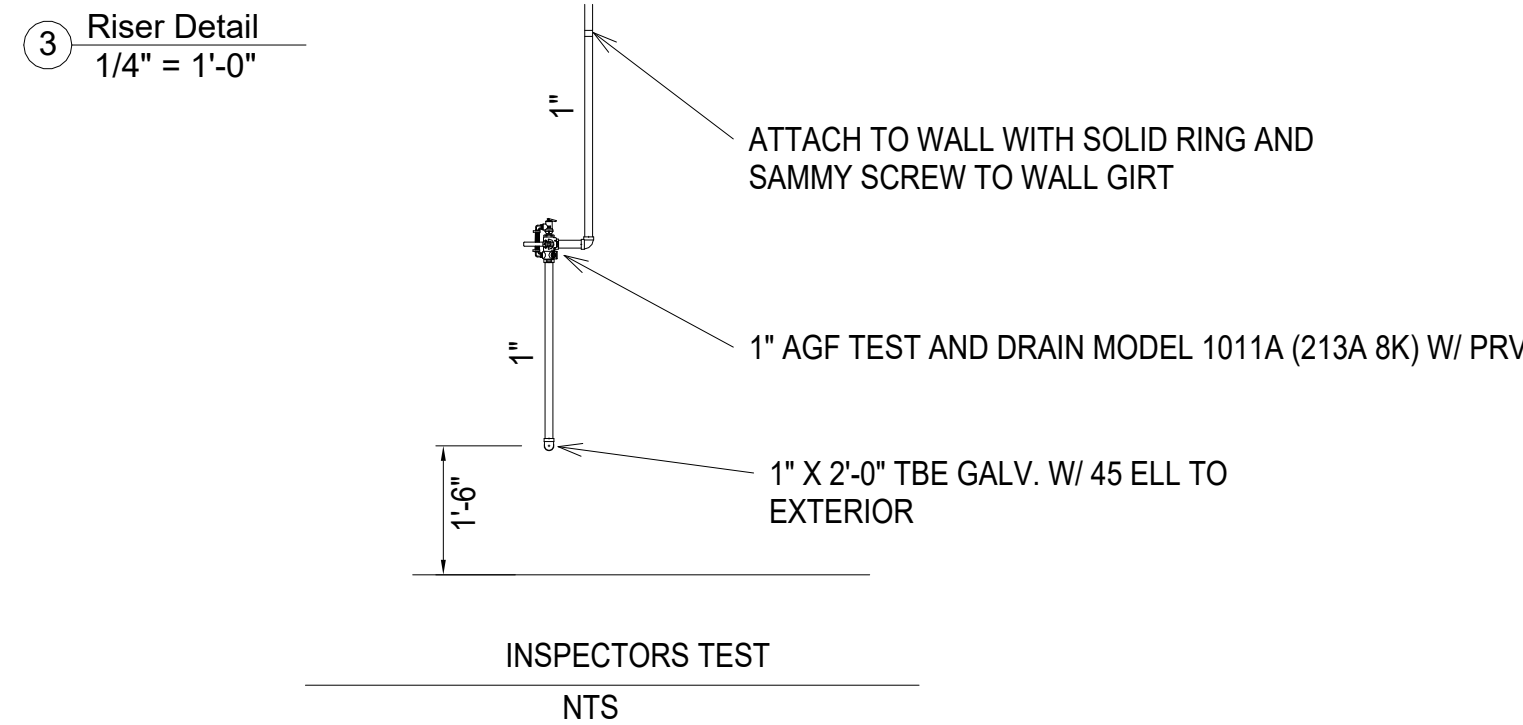
|                                           |                             |                        |  |
|-------------------------------------------|-----------------------------|------------------------|--|
| Project: Lillington FD                    |                             | System: Wet            |  |
| Project Street Address: 2873 NC 210 North |                             | Sys. Sq. Ft.: 8,838    |  |
| Suite:                                    | Floor#:                     | Ceiling Height: Varies |  |
| Designed By: Carolina Fire Protection     |                             | Phone: (910)-892-1700  |  |
| Occupancy: Manufacturing                  | Hazard: Ord. Grp. 2 & Light |                        |  |
| Total Bldg. Area:                         |                             | Total Bldg. Hgt.:      |  |

|                     |                       |                       |  |  |  |
|---------------------|-----------------------|-----------------------|--|--|--|
| Design Method       | Hydraulic Calculation | Hydraulic Calculation |  |  |  |
| Design Area #       | 1                     | 2                     |  |  |  |
| Location            | TRUCK BAY             | OFFICE                |  |  |  |
| Type of System      | Wet System            | Wet System            |  |  |  |
| Hazard Class        | Ord. Grp. 2           | LIGHT                 |  |  |  |
| Criteria From       | NFPA 13               | NFPA 13               |  |  |  |
| Design Area         | 1565                  | 1152                  |  |  |  |
| Sprinkler Spacing   | 130 sqft              | 225 sqft              |  |  |  |
| Density             | .20                   | .10                   |  |  |  |
| K-factor            | 5.6                   | 5.6                   |  |  |  |
| Hose Allowance      | 250                   | 100                   |  |  |  |
| # Design Sprinklers | 15                    | 11                    |  |  |  |
| Special App. Spk.   | 0                     | 0                     |  |  |  |
| Requirement @       | BOR                   | BOR                   |  |  |  |
| G.P.M. Req'd        | 643.476               | 354.074               |  |  |  |
| P.S.I. Req'd        | 60.364                | 54.385                |  |  |  |
| Safety Factor @     | TEST                  | TEST                  |  |  |  |
| Safety Factor (psi) | 41.134                | 48.118                |  |  |  |
| System Sq Ft        | 8,838                 | 8,838                 |  |  |  |
| Dry Sys. Vol. (gal) | n/a                   | n/a                   |  |  |  |

|                   |                      |                  |               |                  |          |
|-------------------|----------------------|------------------|---------------|------------------|----------|
| Tested by         | CFP & HARNETT COUNTY | Date/Time        | 02/25/25 11AM | Pressure Hydrant |          |
| Hydrant Elevation |                      | Flow Hydrant # 1 |               | Flow Hydrant #2  |          |
| Static (PSI)      | 103                  | Residual (PSI)   | 94            | Flow (gpm)       | 1694 GPM |



- PIPE TO BE INSTALLED AND SUPPORTED IN ACCORDANCE WITH NFPA 13
- ALL PIPE 1 1/2" AND LARGER TO BE BLACK SCH. 10 PIPE ROLLED GROOVED WITH GROOVED FITTINGS U.N.O.
- 1" PIPE TO BE BLACK SCH. 40 WITH DUCTILE IRON FITTINGS
- INSTALL (1) NEW WET PIPE TYPE SPRINKLER SYSTEM THROUGHOUT BUILDING
- SYSTEM DESIGNED TO PROVIDE A DENSITY OF .20 GPM PER SQUARE FOOT OVER THE MOST REMOTE 1,565 SQ. FT. AREA +250 GPM FOR HOSE STREAM DEMANDS IN TRUCK APPARATUS BAYS
- SYSTEM DESIGNED TO PROVIDE A DENSITY OF .10 GPM PER SQUARE FOOT OVER THE MOST REMOTE 1,152 SQ. FT. AREA +100 GPM FOR HOSE STREAM DEMANDS IN OFFICE
- BUILDING TO BE HEATED AND MAINTAINED A MINIMUM OF 40 DEGREES FAHRENHEIT BY OWNER
- ALL FIRE PROTECTION PIPING PENETRATIONS THRU RATED WALLS SHALL BE FIRE PROOFED



2 BUILDING SECTION  
SCALE: 1/8" = 1'-0"

|     |      |    |                                      |
|-----|------|----|--------------------------------------|
|     |      |    |                                      |
|     |      |    |                                      |
|     |      |    |                                      |
| NO. | DATE | BY | REVISIONS - SEE FLAGGED AREA ON PLAN |

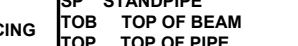
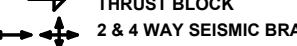
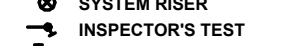
|                |                 |     |                   |        |             |
|----------------|-----------------|-----|-------------------|--------|-------------|
| WATER SUPPLY   | STATIC PRESSURE | PSI | RESIDUAL PRESSURE | PSI W/ | GPM FLOWING |
| TEST TAKEN AT: | BY:             |     |                   | DATE:  |             |

FP 1 OF 3

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|  |  |
|--|--|
|  |  |
|  |  |

INSPECTOR'S TEST



SF STANDFIRE  
 TOB TOP OF BEAM  
 TOP TOP OF PIPE

FM                                  
          OUT            IN



|                                      |   |
|--------------------------------------|---|
| TOTAL SPRINKLERS SHOWN ON THIS SHEET | 0 |
|--------------------------------------|---|

DUNN, N.C. 28334  
PHONE (910) 892-1111  
FAX (910) 892-7322

DRAWING NO.