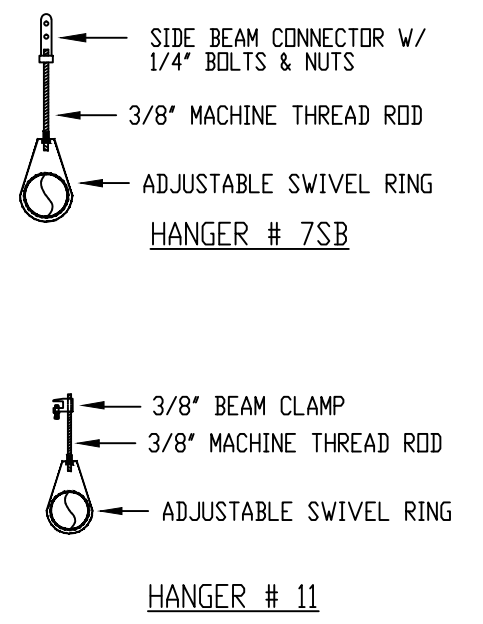
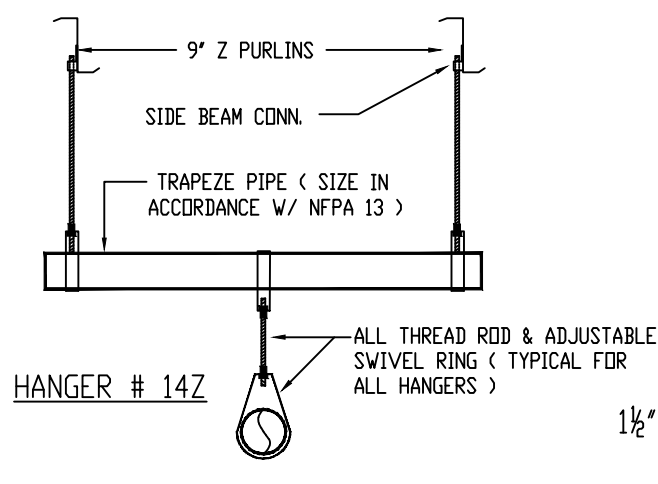


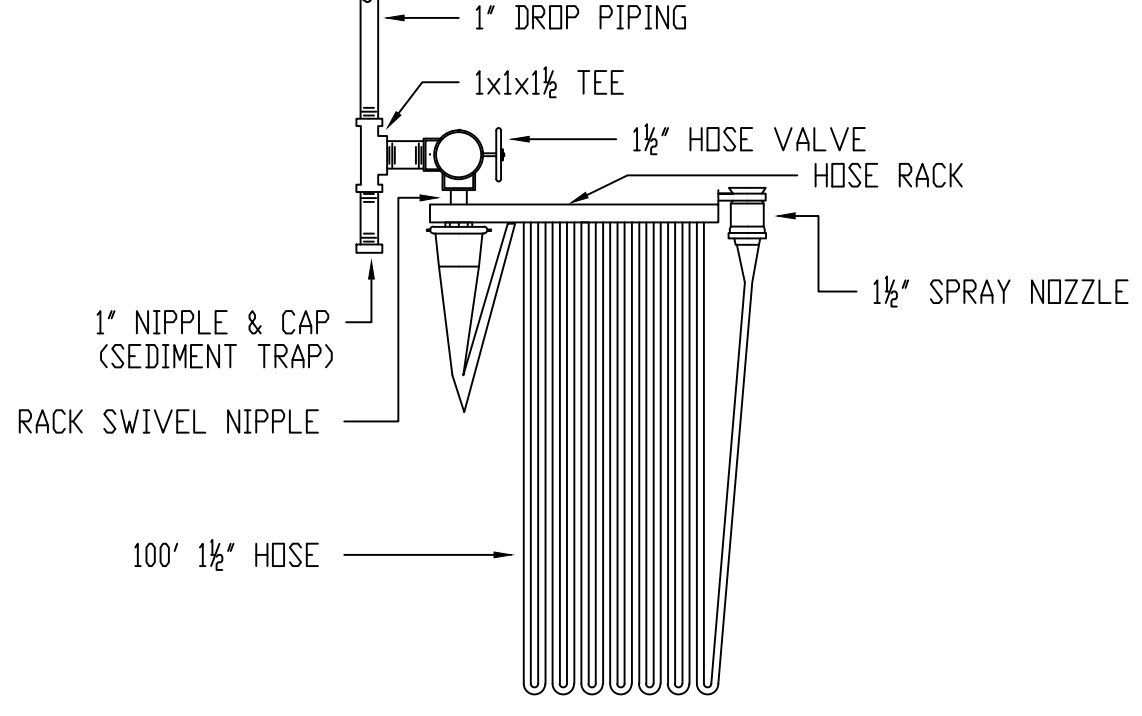
**SPRINKLER HEADS DETAILS**  
NOT TO SCALE



**HANGER DETAILS**  
NOT TO SCALE



**HOSE STATION DETAIL "C"**  
NOT TO SCALE



**DESIGN CRITERIA**

SPRINKLER SYSTEM INSTALLATION IN OFFICE AND G.S.E. TO COMPLY WITH NFPA PHAMPHLET # 13. OFFICE AREA TO BE LIGHT HAZARD, G.S.E. AREA TO BE ORDINARY HAZARD GROUP II

SPRINKLER SYSTEM INSTALLATION IN HANGAR TO COMPLY WITH NFPA PHAMPHLET # 409, # 14:

- PER SECTION 4-2.8 THE DISCHARGE RATE SHALL BE A MINIMUM OF 0.17GPM/FT<sup>2</sup>/5000SQ. FT.
- PER SECTION 4-2.10, SPRINKLERS SHALL HAVE A TEMPERATURE RATING OF 325 TO 375F
- PER SECTION 3-2.3.2 MAXIMUM SPRINKLER SPACING TO BE 100 SQ. FT./ HEAD (EXTRA HAZARD)

THE DESIGN OF THE SPRINKLER SYSTEM AND HOSE STATIONS IN THE HANGAR IS BASED UPON GROUP II AIRCRAFT HANGAR CRITERIA, WITH THE FOLLOWING RESTRICTIONS:

- THE MAXIMUM FLOOR AREA UNDER AN INDIVIDUAL SPRINKLER SYSTEM TO BE LESS THAN 25,000 SQ. FT.
- THE MAXIMUM DOOR HEIGHT NOT TO EXCEED 28'-0"
- AIRCRAFT FUEL TANKS TO BE UNFUELED BEFORE STORAGE OR SERVICE IN THE HANGAR

**GENERAL NOTES**

ALL WIRING TO BE DONE BY OTHERS

ALTHOUGH NOT SPECIFIED, SOME SPRINKLER HEADS HAVE BEEN SHOWN @ CENTERLINE OF TILE. ACTUAL ORIENTATION OF HEADS WITH RESPECT TO CEILING COMPONENTS WILL VARY ACCORDING TO FIELD CONDITIONS.

BRANCH LINE PIPING TO BE SCH. 40, BLACK, JOINED BY THREADED DUCTILE IRON FITTINGS.

1 1/2\"/>

OWNER TO PROVIDE SUFFICIENT HEAT THROUGHOUT BUILDING TO PREVENT FREEZING OF WATER FILLED SPK. PIPING & EQUIP.

ALL DIMENSIONS ARE SHOWN FOR GENERAL LOCATION OF SPRINKLER HEADS. PIPING MAY VARY TO SUIT ACTUAL FIELD CONDITIONS.

ACOUSTICAL CEILING TILE (ACT) TO BE LISTED NON-COMBUSTIBLE WITH UL FLAME SPREAD OF LESS THAN 25.

NOTE: UNDERGROUND TO BE INSTALLED, TESTED AND FLUSHED BY OTHERS IN ACCORDANCE WITH NFPA # 24 & ALL UNDERGROUND PIPING TO BE DONE BY OTHERS. EASTERN FIRE PROTECTION CO. TO START @ FLANGE INSIDE BUILDING (INSTALLED BY OTHERS).

STORAGE OF MATERIAL SHALL NOT EXCEED 12'-0\"/>

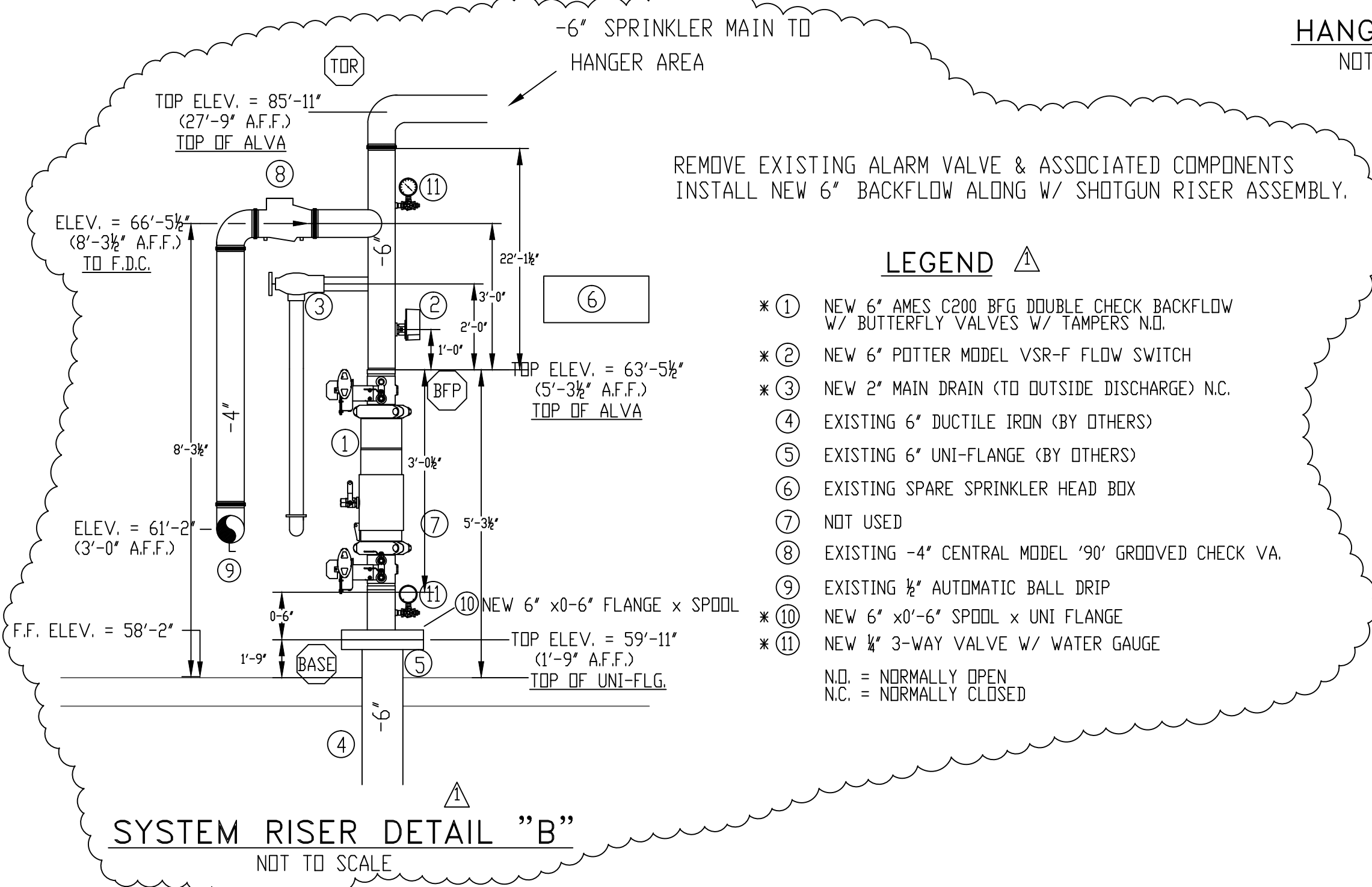
DFG INDICATES OUTSIDE FACE OF GIRT.

○ = INDICATES HYDRAULIC REFERENCE POINTS.

F.F. & INDICATES FINISH FLOOR UP TO CENTERLINE OF PIPE.

BJ & INDICATES BOTTOM WOOD JOIST DOWN TO CENTERLINE OF PIPE.

BP & INDICATES BOTTOM Z PURLIN DOWN TO CENTERLINE OF PIPE.



- LEGEND**
- NEW 6\"/>
  - NEW 6\"/>
  - NEW 2\"/>
  - EXISTING 6\"/>
  - EXISTING 6\"/>
  - EXISTING SPARE SPRINKLER HEAD BOX
  - NOT USED
  - EXISTING -4\"/>
  - EXISTING 1/2\"/>
  - NEW 6\"/>
  - NEW 6\"/>
  - NEW 1/2\"/>
- N.O. = NORMALLY OPEN  
N.C. = NORMALLY CLOSED

**HYDRAULIC-SYSTEM**  
THIS BUILDING IS PROTECTED BY A HYDRAULICALLY DESIGNED AUTOMATIC SPRINKLER SYSTEM.

LOCATION: GSE AREA

No. OF SPRINKLERS: (CALCULATED)	15
BASIS OF DESIGN:	
1. DENSITY (GPM/SQFT.)	.20
2. DESIGNED AREA OF DISCHARGE (SQ.FT.)	1500
SYSTEM DEMAND:	
1. WATER FLOW RATE (GPM)	321.38
2. RESIDUAL PRESSURE AT THE BASE OF THE RISER (PSI)	36.32

**HYDRAULIC DATA NAMEPLATE**  
TO BE MOUNTED AT SYSTEM RISER

**HYDRAULIC-SYSTEM**  
THIS BUILDING IS PROTECTED BY A HYDRAULICALLY DESIGNED AUTOMATIC SPRINKLER SYSTEM.

LOCATION: HANGER #1

No. OF SPRINKLERS: (CALCULATED)	57
BASIS OF DESIGN:	
1. DENSITY (GPM/SQFT.)	.17
2. DESIGNED AREA OF DISCHARGE (SQ.FT.)	5000
SYSTEM DEMAND:	
1. WATER FLOW RATE (GPM)	1046.96
2. RESIDUAL PRESSURE AT THE BASE OF THE RISER (PSI)	32.23

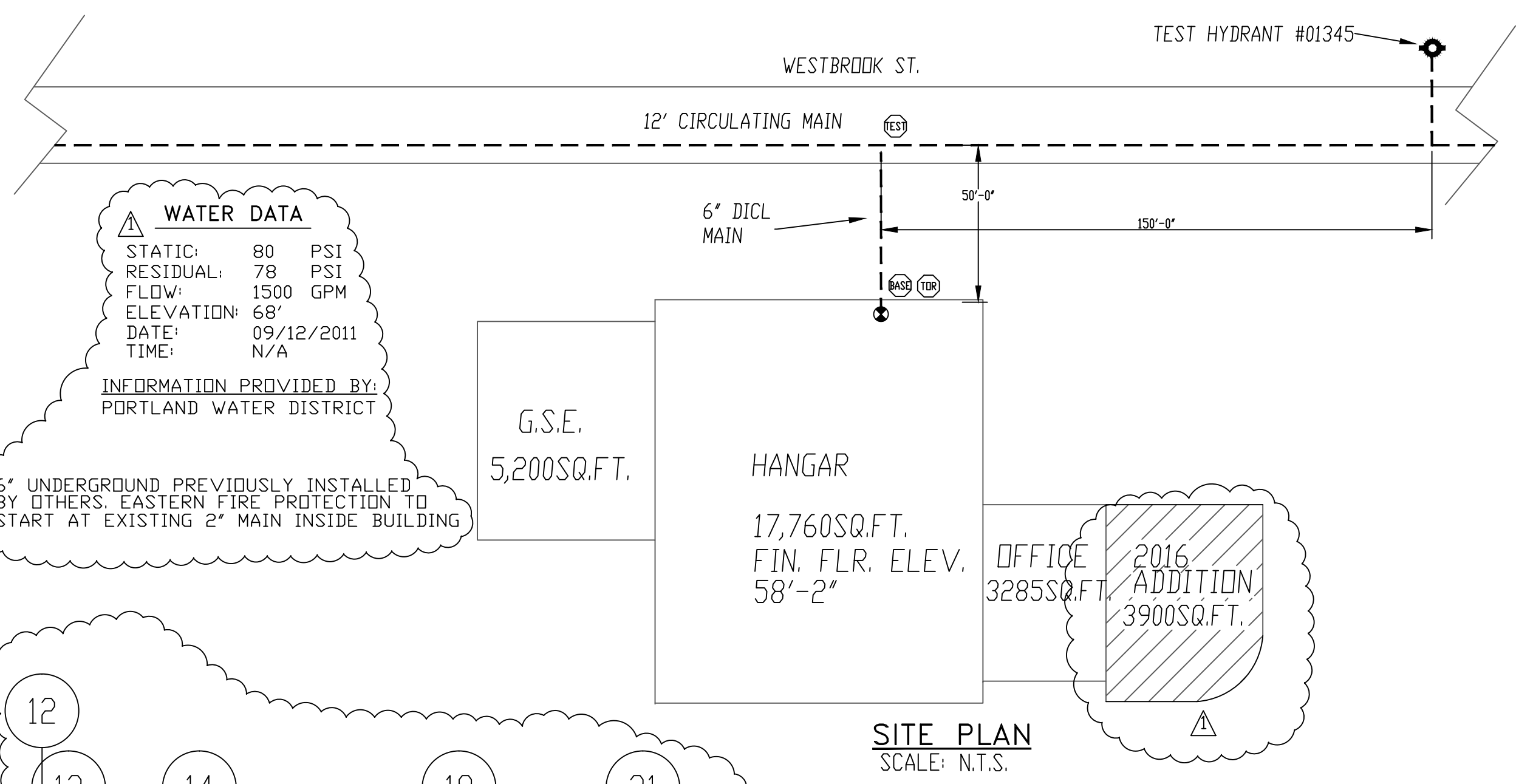
**HYDRAULIC DATA NAMEPLATE**  
TO BE MOUNTED AT SYSTEM RISER

**HYDRAULIC-SYSTEM**  
THIS BUILDING IS PROTECTED BY A HYDRAULICALLY DESIGNED AUTOMATIC SPRINKLER SYSTEM.

LOCATION: 2ND FLR OFFICE

No. OF SPRINKLERS: (CALCULATED)	12
BASIS OF DESIGN:	
1. DENSITY (GPM/SQFT.)	.10
2. DESIGNED AREA OF DISCHARGE (SQ.FT.)	1500
SYSTEM DEMAND:	
1. WATER FLOW RATE (GPM)	203
2. RESIDUAL PRESSURE AT THE BASE OF THE RISER (PSI)	39.66

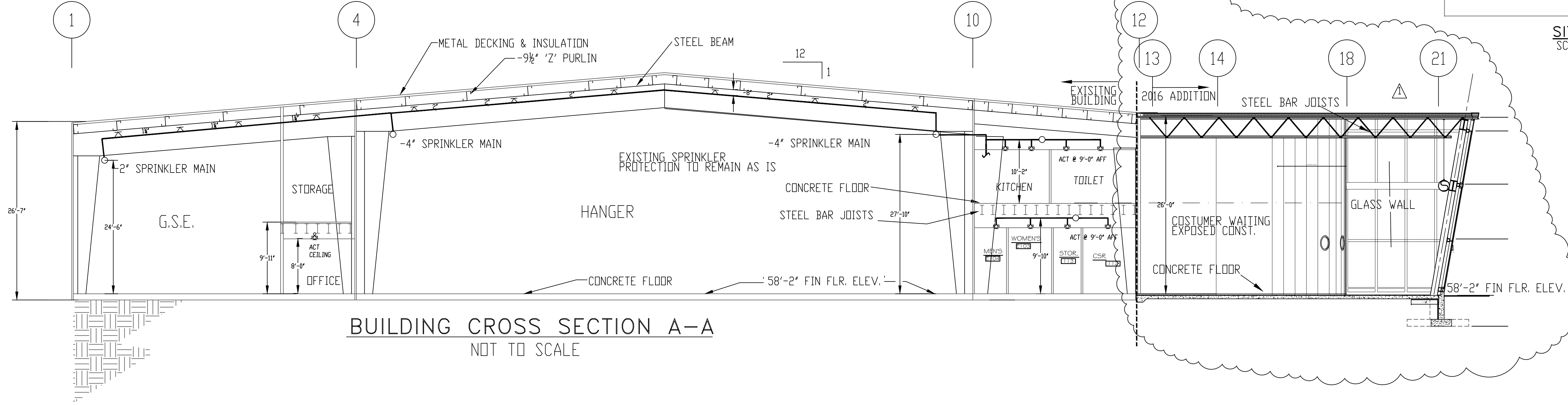
**HYDRAULIC DATA NAMEPLATE**  
TO BE MOUNTED AT SYSTEM RISER



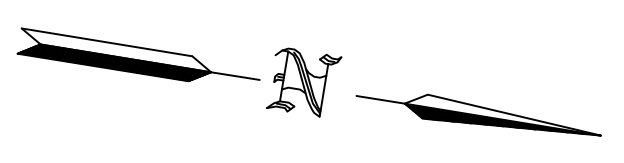
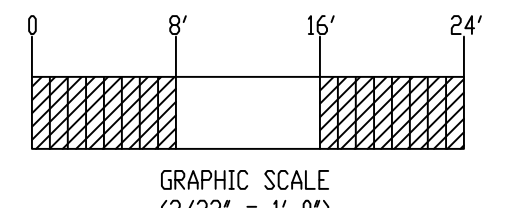
**WATER DATA**

STATIC	80 PSI
RESIDUAL	78 PSI
FLOW	1500 GPM
ELEVATION	68'
DATE	09/12/2011
TIME	N/A

INFORMATION PROVIDED BY: PORTLAND WATER DISTRICT



**BUILDING CROSS SECTION A-A**  
NOT TO SCALE



DATE	REVISIONS	REQUIRED APPROVALS	<p><b>NORTHEAST AIR</b> PORTLAND JETPORT, PORTLAND ME.</p> <p>CONTRACT WITH: THE SHERIDAN CORPORATION</p> <p><b>EASTERN FIRE PROTECTION</b> AUBURN/LEWISTON INDUSTRIAL AIRPARK, AUBURN, MAINE 04210</p>	FIRE SPRINKLER PLANS & DETAILS
12/12/96	REVISED PLAN TO INCLUDE 2 STORY OFFICE AREA	OWNER / ARCHITECT		DWG. NO. 2 OF 2
2/26/97	REVISED PLAN TO REFLECT AS BUILT	STATE FIRE MARSHAL		JOB NUMBER E-2310-96
5/9/16	REVISED PLAN FOR 2016 ADDITION CONTRACT	PORTLAND FIRE DEPARTMENT		SCALE AS NOTED
	#AU-5443-16 RJP			DATE 12/12/96
		DRAWN BY W. FLYNT		
		NICET LEVEL I		
		CHECKED BY R. BEAUCHESNE		
		NICET LEVEL III 069681		
		CONTRACTOR LICENSE # 101		
		CONTRACTOR RMS # 097		

