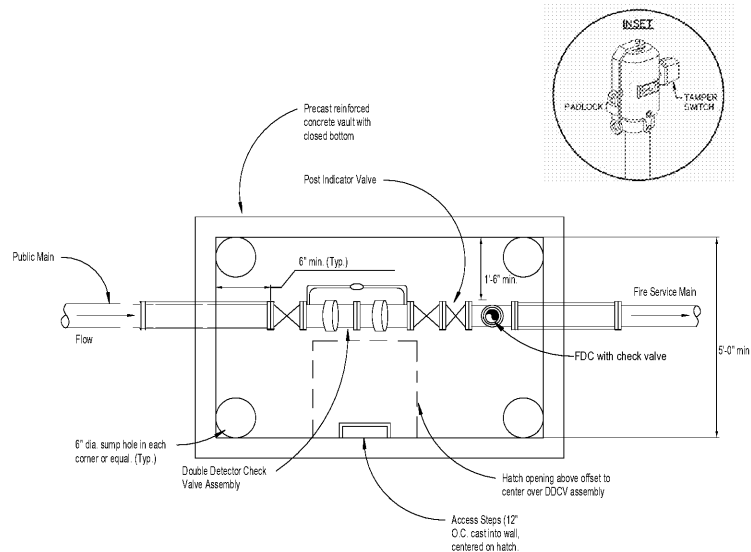


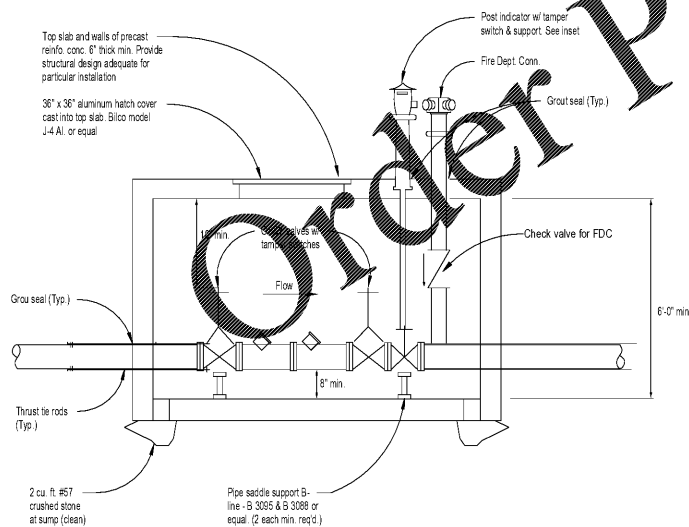
**Dry Valve and Riser-Mounted Air Compressor Detail (Porte Cochere)**

NTS



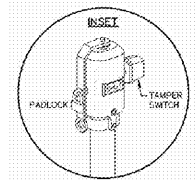
**Fire Department Vault Plan View**

NTS



**Vault Section**

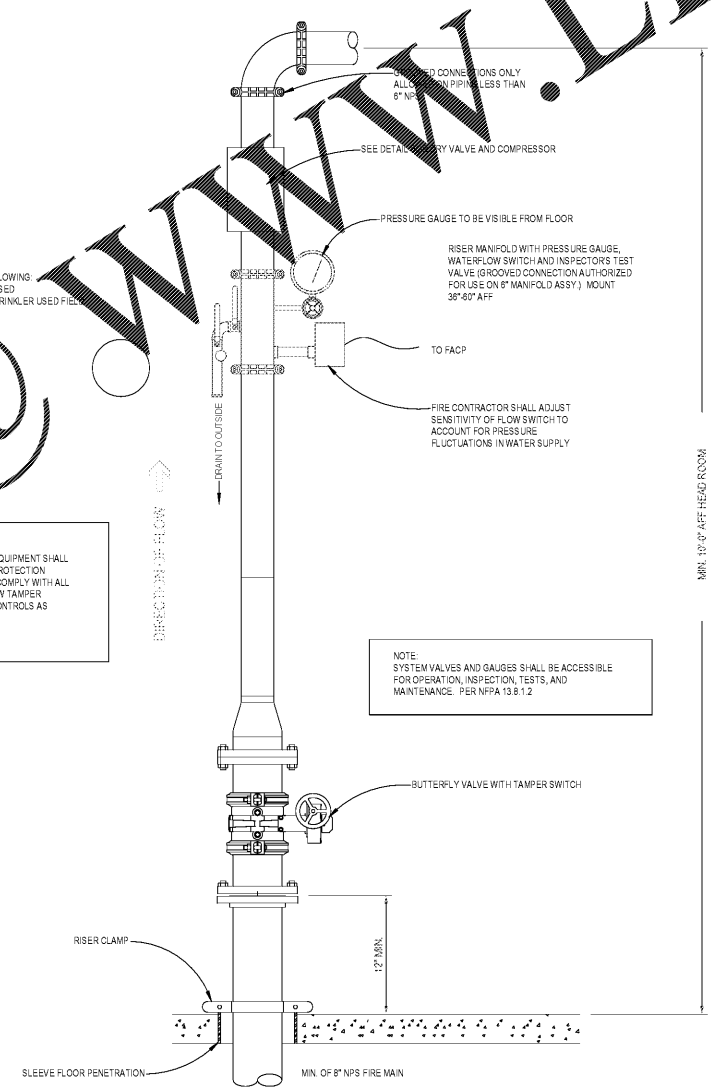
NTS



SPARE HEAD BOX, PROVIDE THE FOLLOWING:  
 \* (8) OF EACH TYPE OF SPRINKLER USED  
 \* (1) WRENCH FOR EACH TYPE OF SPRINKLER USED FIELD LOCATE ADJACENT TO RISER

CONTRACTOR TO PROVIDE WATER TIGHTNESS ABOVE FINISH GRADE

NOTE: ALL RISER VALVES, FITTINGS & EQUIPMENT SHALL BE UL/FPM APPROVED FOR FIRE PROTECTION SERVICE. INSTALLATION SHALL COMPLY WITH ALL NFPA REQUIREMENTS. PROVIDE TAMPER SWITCHES AND SUPERVISORY CONTROLS AS REQUIRED.



**FIRE RISER DETAIL**

NTS

20109 - Georgia Mtn. Health Clinic, Ellijay - LH			
Hazard	Light Hazard	inputs=	
Density	0.1	important values=	
Hose Demand	100	Q	13
Total GPM	250	K-value	5.6
		Sprinkler Area (sq. ft.)	130
	FT	Size	PSI
Distance from standpipe to most demanding area	188	4	3.0
Elbows ft loss	13	4	0.2
Tees ft loss	34	4	0.5
Riser/DDCV loss			10.0
Distance from test hydrant to riser	870	6	1.8
Elevation change - Hydrant to bldg F.F.E.	-7		-3.0
Elevation - Building			5.2
PSI required at most demanding sprinkler			5.4
Total psi loss			29.1
Total psi loss with 10 lb safety margin			33.1

**Pressure vs. Flow (Most Demanding Area - No pump)**

20109 - Georgia Mtn. Health Clinic, Ellijay - OH1			
Hazard	Ordinary Hazard 1	inputs=	
Density	0.15	important values=	
Hose Demand	250	Q	19.5
Total GPM	475	K-value	5.6
		Sprinkler Area (sq. ft.)	130
	FT	Size	PSI
Distance from standpipe to most demanding area	94	4	4.9
Elbows ft loss	13	4	0.7
Tees ft loss	34	4	1.8
Riser/DDCV loss			10.0
Distance from test hydrant to riser	870	6	1.8
Elevation change - Hydrant to bldg F.F.E.	-7		-3.0
Elevation - Building			24.7
PSI required at most demanding sprinkler			12.1
Total psi loss			53.0
Total psi loss with 10 lb safety margin			63.0

**Pressure vs. Flow (Most Demanding Area - No pump)**

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**GEORGIA MOUNTAINS HEALTH SERVICES, INC.**  
 HIGHLAND CROSSING SOUTH TRACT G  
 EAST ELLIJAY, GEORGIA



ISSUE DATES  
 INITIAL ISSUE 09-04-2020

JOB NO. 19-068 | DWN jdg | CKD cjw

**FP0.2**  
 FIRE PROTECTION DETAILS

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