

- WORK FOR THIS BUILDING CONSISTS OF THE DESIGN AND INSTALLATION OF A WET AUTOMATIC FIRE SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA 13 REQUIREMENTS. SYSTEM IS HYDRAULICALLY DESIGNED TO PROVIDE 0.10 GPM PSF OVER 1500 SQ FT FOR LIGHT HAZARD.
- ALL WORK SHALL COMPLY WITH NFPA 13 2016 REQUIREMENTS.
- CLEARANCE TO STORAGE SHALL BE 18".
- OWNER IS RESPONSIBLE TO MAINTAIN ADEQUATE HEAT PER NFPA13 OF 40°F.
- THIS PROJECT CONSISTS OF NEW BUILDINGS, CONSTRUCTED OF STEEL, CONCRETE.
- ALL THREADED BRANCH LINE PIPING IS PIPE SCHEDULE 40. ALL GROOVE PIPE WITH WELDED OUTLETS IS SCHEDULE 10.
- ALL FITTINGS 1 THRU 2" ARE CAST IRON THREADED.
- ALL HANGERS TO BE IN ACCORDANCE WITH NFPA 13 EDITION. SEISMIC BRACING IS REQUIRED. REFERENCE STRUCTURAL AND ARCHITECTURAL DRAWINGS FOR CRITERIA.
- PROVIDE HYDRAULIC LOSS FOR FLEXIBLE EXPANSION JOINT LOCATED IN UNDERGROUND SUPPLY. REFERENCE CIVIL DRAWINGS.
- LOW POINTS IN SYSTEM SHALL HAVE PROVISIONS FOR DRAINAGE.
- ALL NEW MATERIALS TO MEET NFPA 13.
- ALL UPRIGHT SPRINKLER HEADS SHALL HAVE HEAD GUARDS.
- MAXIMUM SQUARE FOOTAGE PER UPRIGHT HEADS IS 130 SQ FT.
- MAXIMUM SQUARE FOOTAGE PER PENDENT HEADS IS 225 SQ FT.
- HEAD CABINET WITH SPARE SPRINKLERS, ESCUTCHEONS AND WRENCHES TO BE PROVIDED.
- HYDRAULIC DATA PLATES (1 EACH AREA CALCULATED) TO BE PROVIDED ADJACENT TO RISER.
- ALL ELECTRICAL WIRING AND ALARM SYSTEM INSTALLATION BY OTHERS.
- ALL VALVES CONTROLLING THE WATER SUPPLY TO 20 OR MORE SPRINKLER HEADS MUST BE SUPERVISED. AT THE TIME OF FINAL INSPECTION, FIRE SAFETY SYSTEMS MUST BE SUPERVISED BY AN APPROVED UL-LISTED MONITORING AGENCY.
- THE CONTRACTOR MUST PROVIDE ALL NECESSARY TESTING EQUIPMENT AND PERFORM ALL TESTING REQUIRED BY THE LIFE SAFETY INSPECTOR.
- ALL NEW FIRE ALARM SYSTEMS MUST BE INTERCONNECTED WITH THE FLOW SWITCH OF THE FIRE SPRINKLER SYSTEMS OUTSIDE HORN AND STROBE.
- IMPORTANT: IN THE EVENT THAT A CONCEALED SPACE IS NOT SHOWN ON THE PLAN SUBMITTAL AND IS DISCOVERED IN THE FIELD, THE INSTALLING CONTRACTOR MUST COMPLY WITH 2016 NFPA 13, SECTION 8.15.1.
- ALL WATER SUPPLY VALVES AND WATER FLOW SWITCHES SHALL BE ELECTRICALLY SUPERVISED, IFC 2015, 903.4.
- ALL CONTROL VALVE(S) WITHIN THE RISER ROOM MUST BE ACCESSIBLE, 2016 NFPA 13 SECTION 8.1.2.
- PRESSURE GAUGES ARE REQUIRED ON THE SYSTEM SIDE OF THE MAIN VALVE AND ON THE SUPPLY SIDE OF THE BACKFLOW PREVENTER.
- THE FIRE DEPARTMENT CONNECTION MUST BE LOCATED NOT LESS THAN 18 IN. AND NOT MORE THAN 4 FT ABOVE THE LEVEL OF THE ADJACENT GRADE OR ACCESS LEVEL.
- ALL WORK FOR NEW FIRE LINES SHALL BE INSTALLED IN ACCORDANCE WITH ALL REQUIREMENTS OF NFPA 24 2016 EDITION WHETHER SPECIFICALLY DEPICTED OR NOT.
- NEW FLOW TEST MUST BE PERFORMED BEFORE ANY FIRE SPRINKLER WORK CAN COMMENCE.

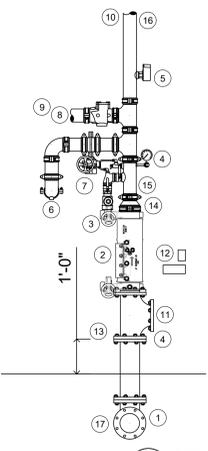
3 NOTES
NO SCALE

FIRE PROTECTION SYMBOL LEGEND			
	SYSTEM RISER		AUXILIARY DRAIN
	PIPE RISE		CONTROL VALVE
	PIPE DROP		INSP. TEST CONN.
	PIPE REDUCER		PIPE HANGER
	PIPE CAP		HYDRAULIC NODE
	PIPE PLUG		PIPE ELEVATION
	PIPE COUPLING		SHEET NOTE
	HEAD ELEVATION		DROP PENDENT
	PENDENT		SIDE WALL
	2-WAY EARTHQUAKE BRACE		FIRE DEPT CONNECTION
	HORN STROBE		

SYM	CNT	POSITION	FINISH	TEMP	K	NPT	SIN	MFG.	MODEL#
●	150	PEND	WHITE	200	5.60	1/2"		Semi-Recessed	
○	22	UPR	BRASS	200	5.60	1/2"			

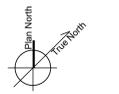
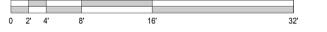
KEYED NOTES

- 6" UNDERGROUND
- 6" BACKFLOW PREVENTER GYG BFV (DERINGER OR EQUAL) WITH TAMPER SWITCHES
- 2" MAIN DRAIN AND INSPECTORS TEST
- PRESSURE GAUGE - SUPPLY SIDE / SYSTEM SIDE
- SYSTEM FLOW SWITCH
- TO BACK FLOW FORWARD FLOW WITH 2-1/2" HOSE VALVES FOR SYSTEM FLUSHING CONNECTION
- 4" BUTTERFLY VALVE WITH TAMPERS (NORMALLY CLOSED)
- TO FIRE DEPARTMENT CONNECTION 4" x 2-1/2" x 2-1/2" CONNECTION -LOCATION TBD
- 4" CHECK VALVE FOR FDC LOCATION TBD
- TO SPRINKLER SYSTEM -PROVIDE SEISMIC BRACE
- TO DOMESTIC WATER
- SPRINKLER HEAD BOX & HYDRAULIC CALCULATION PLACARDS
- 6" FLANGE TEE - AWWA APPROVED
- 6" x 4" CONCENTRIC REDUCER IF REQUIRED
- 4" READY RISER WITH PRV - MAIN DRAIN, SYSTEM PRESSURE GAUGE
- PROVIDE AUTOMATIC AIR VENT - LOCATION TBD BY CONTRACTOR
- PROVIDE HYDRAULIC LOSS FOR FLEXIBLE EXPANSION JOINT LOCATED IN THE UNDERGROUND SUPPLY LINE



2 SPRINKLER RISER DETAIL

1 FIRE SPRINKLER PLAN
SCALE: 1/8" = 1'-0"



WATER FLOW TEST - 2-12-19
STATIC 140 PSI
RESIDUAL 130 PSI
FLOW @ 1500 GPM

4 FLOW TEST INFORMATION
NO SCALE

THE BIDDING CONTRACTORS SHALL FAMILIARIZE THEMSELVES WITH THE COMPLEXITIES OF THIS BUILDING. THESE DRAWINGS ARE DIAGRAMMATIC ONLY. THE AWARDED CONTRACTOR SHALL BE RESPONSIBLE FOR PRODUCTION OF ALL DESIGN AND SUBMITTAL DOCUMENTS AND OBTAINING ALL REQUIRED PERMITS AND APPROVALS.

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STAMP:

U.S. Department of Veterans Affairs

Drawing Title
FIRST FLOOR FIRE SPRINKLER
Approved: Project Director

Phase
100% CONSTRUCTION DOCUMENTS

Project Title
OUTPATIENT MENTAL HEALTH / EDUCATION ADDITION
Location
3687 VETERANS DRIVE, FORT HARRISON, MT 59636
Issue Date
08/05/2020
Checked
KLM
Drawn
BAE

Project Number
436-114
Building Number
173
Drawing Number
FP101-P1

