

1. WORK FOR THIS BUILDING CONSISTS OF THE DESIGN AND INSTALLATION OF MODIFICATIONS TO AN EXISTING WET AUTOMATIC FIRE SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA 13 REQUIREMENTS. THE SYSTEM IS HYDRAULICALLY DESIGNED TO PROVIDE 0.10 GPM PSF OVER 1500 SQ FT FOR LIGHT HAZARD.
2. ALL WORK SHALL COMPLY WITH NFPA 13 2016 REQUIREMENTS.
3. CLEARANCE TO STORAGE SHALL BE 18".
4. OWNER IS RESPONSIBLE TO MAINTAIN ADEQUATE HEAT PER NFPA13 OF 40°F.
5. THIS PROJECT CONSISTS OF NEW BUILDINGS, CONSTRUCTED OF STEEL AND CONCRETE.
6. ALL THREADED BRANCH LINE PIPING IS PIPE SCHEDULE 40. ALL GROOVE PIPE WITH WELDED OUTLETS IS SCHEDULE 10.
7. ALL FITTINGS 1 THRU 2" ARE CAST IRON THREADED.
8. ALL HANGERS TO BE IN ACCORDANCE WITH NFPA 13 EDITION. SEISMIC BRACING IS REQUIRED. REFERENCE STRUCTURAL AND ARCHITECTURAL DRAWINGS FOR CRITERIA.
9. LOW POINTS IN SYSTEM SHALL HAVE PROVISIONS FOR DRAINAGE.
10. ALL NEW MATERIALS TO MEET NFPA 13.
11. ALL UPRIGHT SPRINKLER HEADS SHALL HAVE HEAD GUARDS.
12. MAXIMUM SQUARE FOOTAGE PER UPRIGHT HEADS IS 130 SQ FT.
13. MAXIMUM SQUARE FOOTAGE PER PENDENT HEADS IS 225 SQ FT.
14. MAXIMUM SQUARE FOOTAGE PER DRY PENDENT HEAD IS 130 SQ FT.
15. HYDRAULIC ELEVATIONS ARE INDICATED ON THE DWGS. HEAD CABINET WITH SPARE SPRINKLERS, ESCUTCHEONS AND WRENCHES TO BE PROVIDED.
16. HYDRAULIC DATA PLATES (1 EACH AREA CALCULATED) TO BE PROVIDED ADJACENT TO RISER.
17. ALL ELECTRICAL WIRING AND ALARM SYSTEM INSTALLATION BY OTHERS.
18. 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.
19. THE CONTRACTOR MUST PROVIDE ALL NECESSARY TESTING EQUIPMENT AND PERFORM ALL TESTING REQUIRED BY THE LIFE SAFETY INSPECTOR.
20. ALL NEW FIRE ALARM SYSTEMS MUST BE INTERCONNECTED WITH THE FLOW SWITCH OF THE FIRE SPRINKLER SYSTEMS OUTSIDE HORN AND STROBE.
21. 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.
22. ALL WATER SUPPLY VALVES AND WATER FLOW SWITCHES SHALL BE ELECTRICALLY SUPERVISED, IFC 2015, 903.4.
23. ALL CONTROL VALVE(S) WITHIN THE RISER ROOM MUST BE ACCESSIBLE, 2016 NFPA 13 SECTION 8.1.2.
24. PRESSURE GAUGES ARE REQUIRED ON THE SYSTEM SIDE OF THE MAIN VALVE AND ON THE SUPPLY SIDE OF THE BACKFLOW PREVENTER.
25. 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.
26. ALL WORK FOR NEW FIRE LINES SHALL BE INSTALLED IN ACCORDANCE WITH ALL REQUIREMENTS OF NFPA 24 2016 EDITION WHETHER SPECIFICALLY DEPICTED OR NOT.

2 NOTES
NO SCALE

SYMBOL	POSITION	FINISH	TEMP	K	NPY	SIN	MFG	MODEL#	
●	124	PEND	BRASS	200	5.60	1/2"	TY3231	Tyco	TY-FRB
○	14	UPR	BRASS	200	5.60	1/2"	TY3131	Tyco	TY-FRB

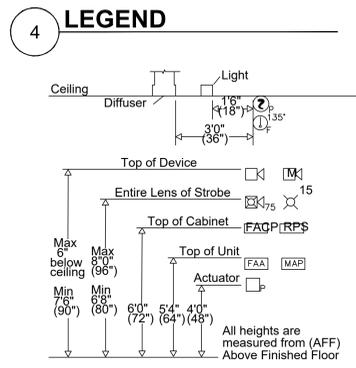
1 FIRE SPRINKLER PLAN
SCALE: 1/8" = 1'-0"

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.

<p>CONSULTANTS:</p> <p>VERITAS FIRE ENGINEERING, INC.</p> <p>12364 W. ALAMEDA PKWY. SUITE #135 LAKEWOOD CO 80228 (303) 985-2050 WWW.VERITASFIRE.COM</p>	<p>ARCHITECT/ENGINEERS:</p> <p>VALHALLA ENGINEERING GROUP, LLC</p> <p>750 W HAMPDEN AVE SUITE #300 ENGLEWOOD CO 80110 (720) 550-6307 WWW.VALHALLAENGINEERING.COM</p>	<p>STAMP:</p>		<p>Drawing Title FIRST FLOOR FIRE SPRINKLER</p> <p>Approved: Project Director</p>	<p>Phase 100% CONSTRUCTION DOCUMENTS</p>	<p>Project Title OUTPATIENT MENTAL HEALTH / EDUCATION ADDITION</p> <p>Location 3687 VETERANS DRIVE, FORT HARRISON, MT 59636</p> <p>Issue Date 08/05/2020</p> <p>Checked KLM</p> <p>Drawn BAE</p>	<p>Project Number 436-114</p> <p>Building Number 154</p> <p>Drawing Number FP101-P2</p>
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PROJECT SCOPE NARRATIVE
 THE SCOPE OF THIS PROJECT IS TO PROVIDE ADDS AND RELOCATES TO AND EXISTING FIRE ALARM SYSTEM THROUGHOUT AN EXISTING BUILDING.
 DESIGN CRITERIA PER NFPA 72 2016 ED., NFPA 70 (NEC) 2017, 2018 I-CODES, 2018 NFPA 101 AND LOCAL AHJ

- FIRE ALARM CONTROL PANEL
- FIRE ALARM MAP
- FIRE ALARM POWER SUPPLY
- FIRE ALARM REMOTE ANNUNCIATOR
- WATERFLOW SWITCH
- VALVE WITH TAMPER SWITCH
- FIRE DEPARTMENT CONNECTION
- SPEAKER STROBE (INDICATES CANDELA) (C INDICATES CEILING MOUNT) (#W INDICATES WATTAGE)
- STROBE (NUMBER INDICATES CANDELA) (C INDICATES CEILING MOUNT)
- PULL STATION
- DUCT DETECTOR
- REMOTE TEST/RESET STATION
- DOOR HOLDER
- SMOKE DETECTOR (PHOTOELECTRIC)
- POST INDICATING VALVE (PIV)
- END OF LINE RESISTOR

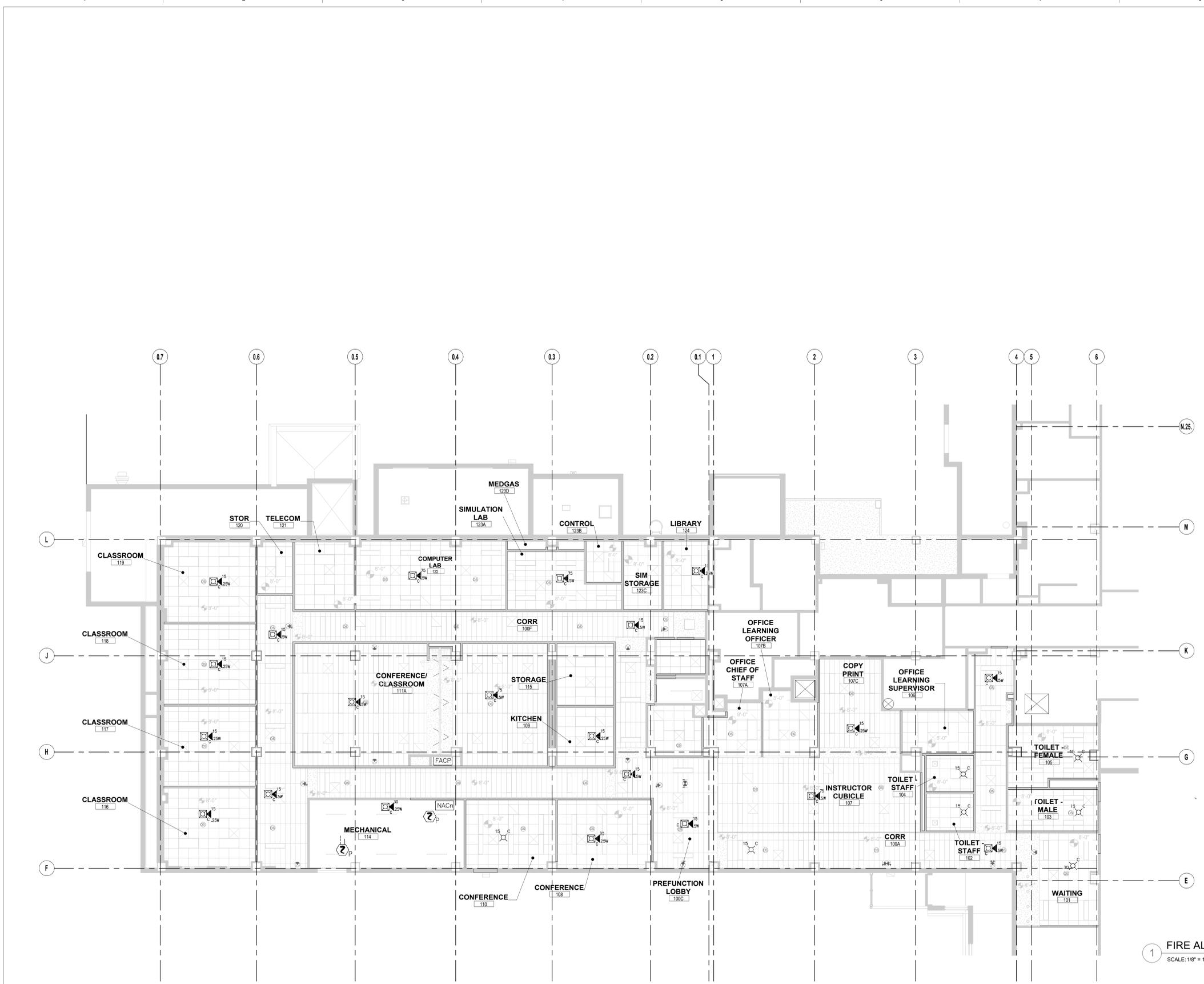


3 TYPICAL DEVICE MOUNTING HEIGHTS

- INSTALLATION NOTES:
1. ALL FIRE ALARM EQUIPMENT SHALL BE INSTALLED PER NFPA 72 AND THE MANUFACTURER'S INSTRUCTIONS.
 2. ALL INITIATING DEVICES SHALL BE FIELD LOCATED BASED UPON THE LOCATION OF DIFFUSERS, LIGHTS, AND OTHER POTENTIAL OBSTRUCTIONS.
 3. WALL MOUNT THE BOTTOM OF ALL AUDIBLE/VISUAL APPLIANCES AT MIN. 80" A.F.F., NO MORE THAN 96" AFF OR TOP AT 6" BELOW THE CEILING, WHICHEVER IS LOWER.
 4. ALL WIRING INSTALLATION SHALL CONFORM TO THE NEC.
 5. ALL WIRING SHALL BE INSTALLED IN CONDUIT.
 6. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RETURN ALL WIRES TO THE PANEL FREE OF OPENS, GROUNDS, SHORTS AND/OR ANY OTHER CONDITION THAT MAY PREVENT THE PROPER OPERATION OF THE FIRE ALARM SYSTEM.
 7. ALL MATERIALS SHALL BE COMPATIBLE WITH THE EXISTING HOSPITAL SYSTEM.
 8. CONTRACTOR IS TO FIELD VERIFY THAT THE EXISTING HEAD-END WILL HANDLE THE ADDITIONAL VISUAL & AUDIBLE LOAD. IF ADDITIONAL END HEAD/POWER SUPPLIES ARE NEEDED ADVISE COR PRIOR TO BID.
 9. CIRCUIT NEW EQUIPMENT INTO THE SAME FIRE ALARM ZONE THAT IS SERVING THE SPRINKLER ZONE.

2 INSTALLATION NOTES

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



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