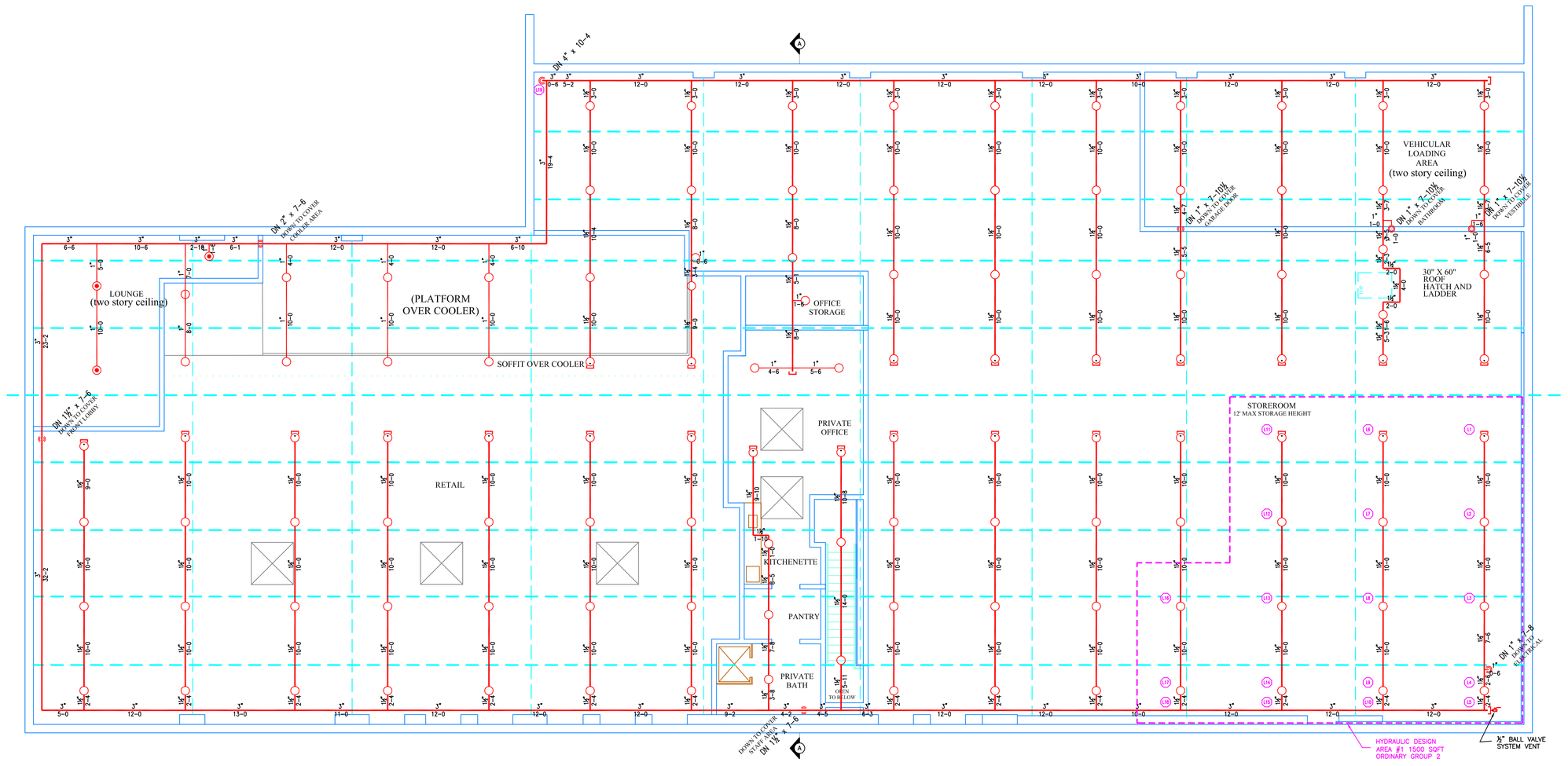
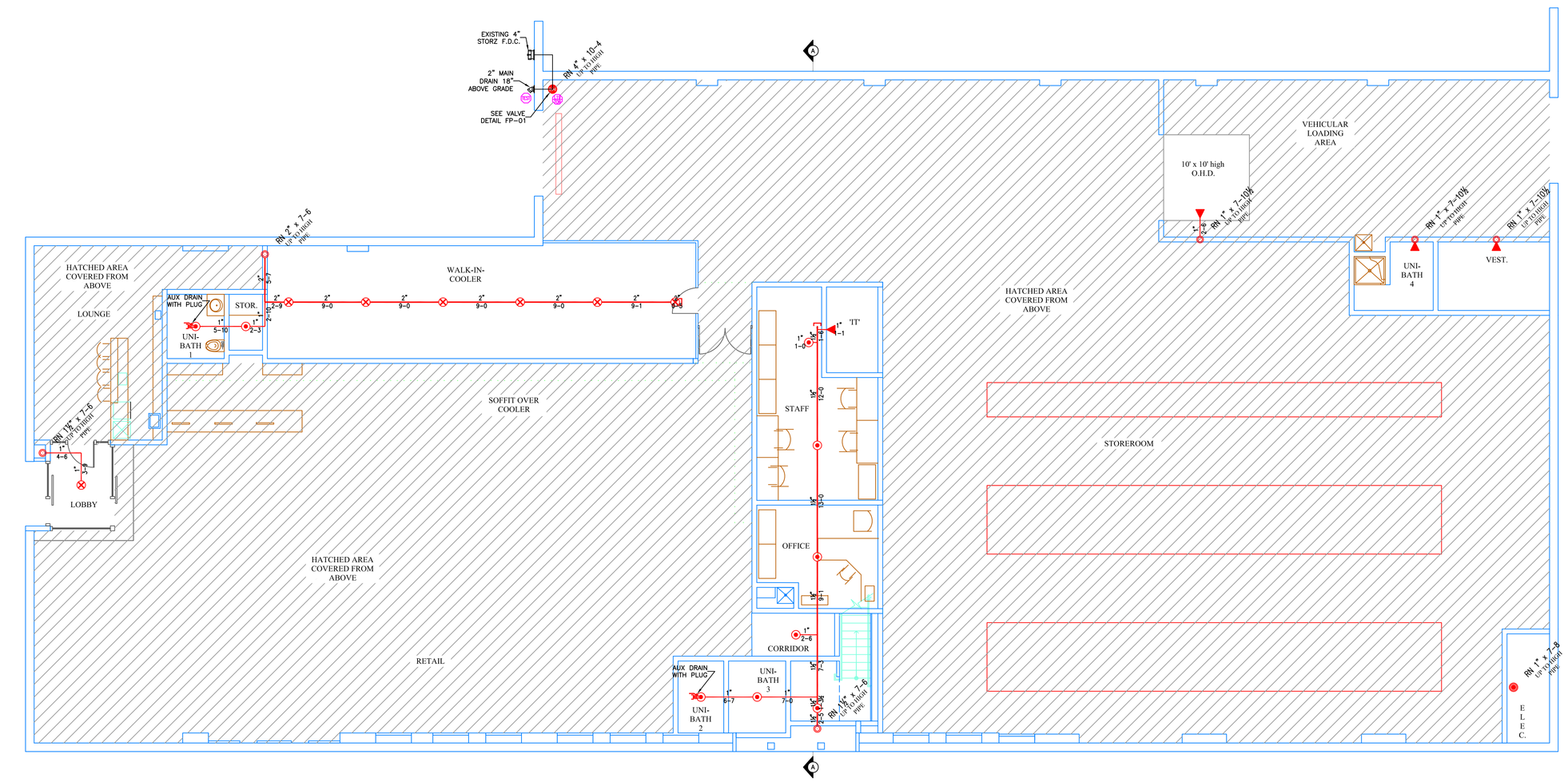


HIGH PIPE

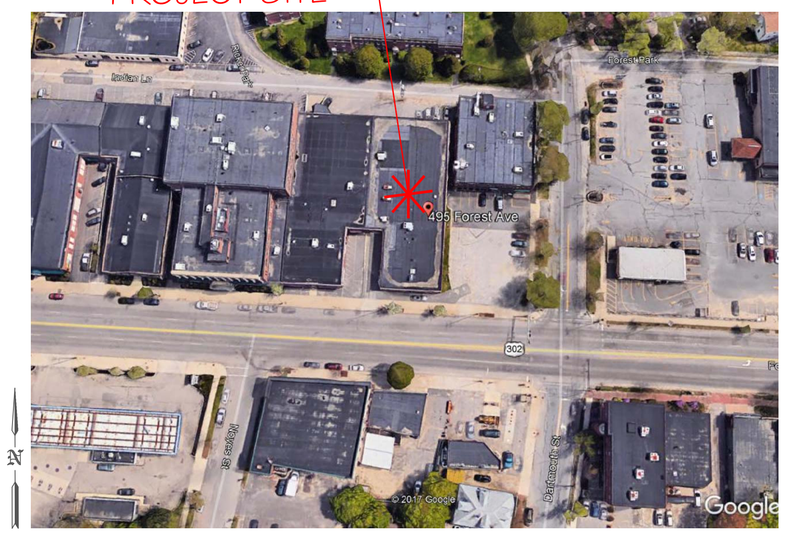
TOTAL PROTECTED AREA 12,500 SQ.FT.
SCALE 1/8" = 1'-0"



LOW PIPE

TOTAL PROTECTED AREA 1,900 SQ.FT.
SCALE 1/8" = 1'-0"

PROJECT SITE



PLOT DETAIL

SCALE: NOT TO SCALE

DESIGN AREA NUMBER 1

HYDRAULIC DESIGN CRITERIA

LOCATION= STORAGE AREA
TYPE OF SYSTEM= NFPA 13 WET
AREA OF OPERATION= 1500-SQ.FT.
NUMBER OF SPRINKLERS= 14
DENSITY= .2 W/ HOSE DEMAND OF 250 GPM
HAZARD CLASS= ORDINARY GROUP 2
HEAD SPACING= 120 SQ.FT.

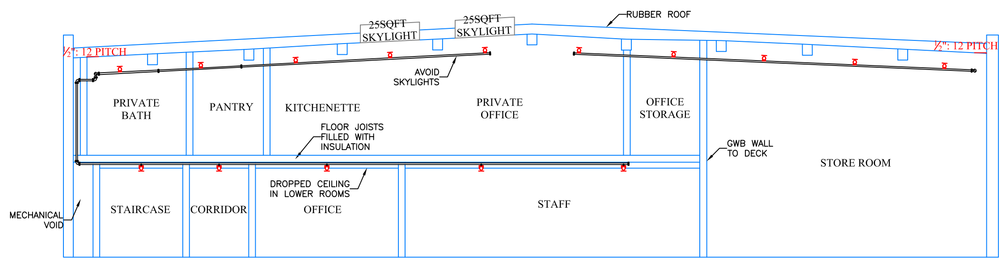
SYSTEM DEMAND INCLUDING HOSE @
BASE OF RISER= 604-GPM 65-PSI
SAFETY MARGIN= 7-PSI

PROJECT DESCRIPTION

BUILDING CONST:
THE BUILDING IS OF TYPE V CONSTRUCTION. IT IS ONE LARGE AREA WITH A SMALL SECOND FLOOR. THE STRUCTURE IS CONSTRUCTED OF WOODEN FRAMING, STEEL GIRDERS, FIBERGLASS INSULATION, AND GYP BOARD WALLS

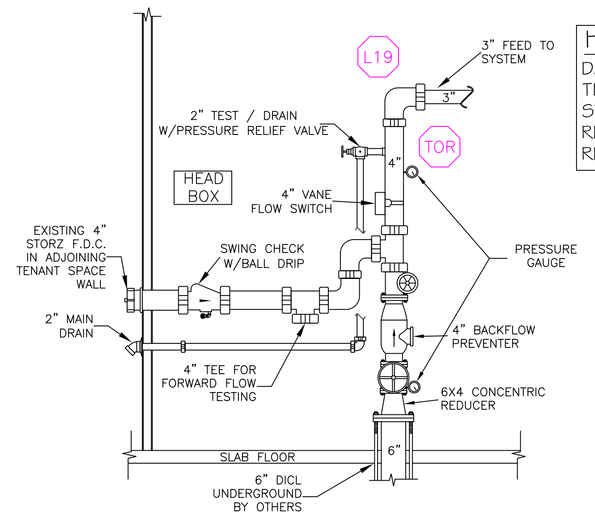
BUILDING OCCUPANCY:
THE BUILDING WAS BUILT AND DESIGNED FOR MERCANTILE USE STORAGE HEIGHT NOT TO EXCEED 12 FEET

SPRINKLER SYSTEM DESIGN:
THIS IS A SINGLE WET SYSTEM COVERING THE ENTIRE STRUCTURE. THE SYSTEM WAS DESIGNED TO MEET APPLICABLE CODES REGAURDING NFPA13 2016ed FOR ORDINARY GROUP 2 HAZARD



CROSS SECTION "A"

SCALE: NOT TO SCALE



VALVE DETAIL

SCALE: NOT TO SCALE

HYDRANT FLOW INFORMATION
DATE: 06-27-2017
TIME: N/A
STATIC PRESSURE: 94 PSI
RESIDUAL PRESSURE: 86 PSI
RESIDUAL FLOW: 350 GPM

HIGH TECH FIRE PROTECTION
P.O. BOX 156
MINOT, ME. 04258-0258
TEL:(207) 998-2551 FAX:(207) 998-4187
MAINE LICENSE # 102

GENERAL CONTRACTOR ON RECORD:
ZACHAU CONSTRUCTION
MARK CANTY
(207-807-8977)

SPECIAL APPLICATIONS:
12' MAX STORAGE HEIGHT

LEGEND:
- RN/DN PIPE RISER UP OR DOWN
- EXISTING OUTLET
- WET PIPE
- SYSTEM RISER
- PIPE PITCH 1/8 MAINS 1/2 LINES
- SWAY BRACING
- HYDRAULIC CALC. POINT

DESIGN & SYSTEM NOTES:

POSITION, LOCATION, SPACING, AND USE OF SPRINKLERS SHALL BE IN ACCORDANCE WITH NFPA 13.

POSITION, LOCATION, SPACING, AND USE OF HANGERS SHALL BE IN ACCORDANCE WITH NFPA 13.

HYDRAULIC CALCULATION PROCEDURES HAVE BEEN DONE IN ACCORDANCE WITH NFPA 13. (SEE PLANS FOR LOCATION OF REMOTE AREAS, HYDRAULIC REFERENCE POINTS, AND SYSTEM DEMANDS.)

HIGH TECH FIRE PROTECTION IS TO BEGIN WORK AT 6" MAIN IN MECHANICAL ROOM 1' AFF

DIMENSIONS AND LOCATIONS GIVEN FOR SPRINKLER HEADS AND PIPE MAY VARY TO ACCOMMODATE ACTUAL FIELD CONDITIONS.

OWNER TO PROVIDE ADEQUATE HEAT THROUGHOUT BUILDING TO PROTECT WATER FILLED PIPING AND EQUIPMENT FROM FREEZING TEMPERATURES.

ONLY TRI-SEAL TYPE COUPLINGS TO BE INSTALLED ON DRY AND OR PRE-ACTION SYSTEMS.

OWNER IS RESPONSIBLE TO MAINTAIN THE SPRINKLER SYSTEM IN ACCORDANCE WITH THE LATEST EDITION OF NFPA 25, "INSPECTION, TESTING, & MAINTENANCE OF WATER-BASED FIRE PROTECTION SYSTEMS" AND/OR ALL APPLICABLE FEDERAL, STATE, AND/OR LOCAL LAWS, CODES AND ORDINANCES.

ALL MECHANICAL, ELECTRICAL AND PLUMBING TRADES TO COORDINATE THEIR WORK WITH SPRINKLER CONTRACTOR.

ALL ELECTRIC WORK IS TO BE DONE BY OTHERS.

HEAD LEGEND:

GLOBE
GL5601
14 /155°
K=5.6
1/2" SEMI-RECESSED
WHITE PENDENT
(14' X 14' MAX IN LIGHT HAZARD)
(130 SQFT MAX ELSEWHERE)

GLOBE
GL5635
7 /200°
K=5.6
1/2" SEMI-RECESSED
WHITE DRY PENDENT
(14' X 14' MAX)

GLOBE
GL5615
114 /200°
K=5.6
1/2" BRASS UPRIGHT
(14' X 14' MAX IN LIGHT HAZARD)
(120 SQFT MAX ELSEWHERE)

GLOBE
MODELGL5626
4 /155°
K=5.6
1/2" HORIZONTAL SIDEWALL
(14' X 14' MAX)

OR APPROVED EQUAL

TOTAL HEADS ON THIS SHEET: 139

SCALE: 2 1 0 4 8
SCALE 1/8"=1'-0"

REVISIONS:
NO. DATE: DESCRIPTION:

DATE: AUGUST 22, 2017
DESIGNER: ED PENNELL
CHECKED BY: E.POULIN (RMS# 515)
NICET LEVEL: IV 108534

LOCATION:
495 FOREST AVENUE
PORTLAND, ME

DRAWING TITLE:
ALTA VISTA
FIRE PROTECTION PLAN
(NFPA 13 2016ed.)

DRAWING NO.:
FP-01