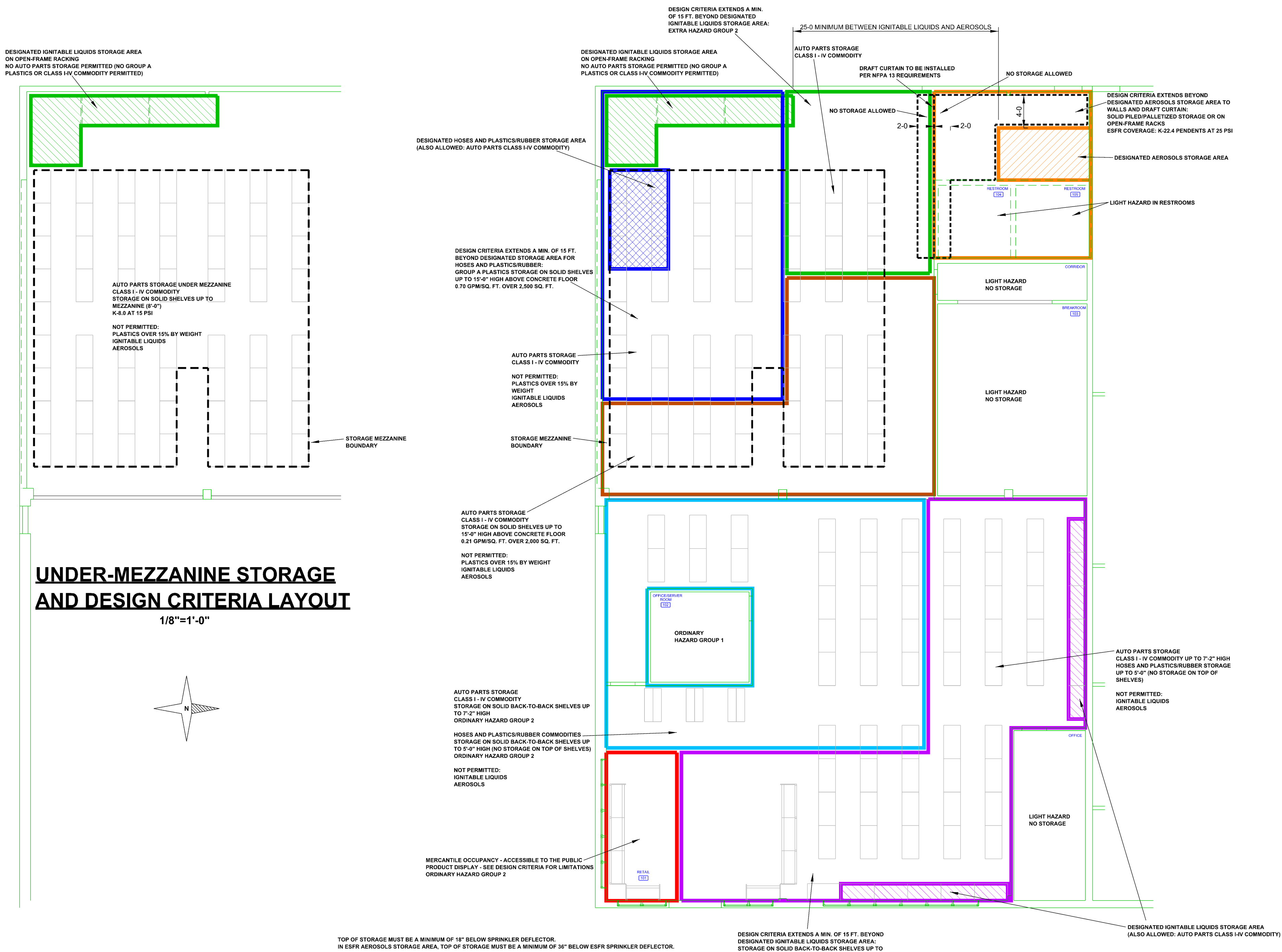




ROOF LEVEL STORAGE AND DESIGN CRITERIA LAYOUT

1/8"=1'-0"

DESIGN CRITERIA

THE HIGH-BAY AREA REFERS TO THE BACK (WEST) HALF OF THE TENANT SPACE WHERE THE ROOF STRUCTURE IS HIGHER.
THE LOW-BAY AREA REFERS TO THE FRONT (EAST) HALF OF THE TENANT SPACE WHERE THE ROOF STRUCTURE IS LOWER.

STORAGE OF AUTO PARTS:
THE AUTO PARTS ARE GENERALLY CONSIDERED TO BE A CLASS I-IV COMMODITY. HOWEVER, COMMODITIES THAT CONTAIN OVER 15% BY WEIGHT OF PLASTICS ARE CONSIDERED GROUP A PLASTIC COMMODITIES AND ARE NOT INCLUDED IN THIS SECTION OF THE DESIGN CRITERIA.

HIGH-BAY AREA:
THE AUTO PARTS CAN BE STORED AS CARTONED (IN CLOSED CARDBOARD BOXES) ENCAPSULATED OR NONENCAPSULATED, OR EXPOSED (NOT IN BOXES) ENCAPSULATED OR NONENCAPSULATED UP TO 15 FT HIGH ON THE SOLID SHELVING BELOW OR ABOVE THE MEZZANINE, SOLID-PILED OR PALLETIZED ON THE FLOOR. SINCE THE TOP OF THE SOLID SHELVING (ABOVE THE MEZZANINE) IS 15 FT ABOVE THE FLOOR, AUTO PARTS CANNOT BE STORED ON THE TOP SHELF OF THE SOLID SHELVING. AUTO PARTS CANNOT BE STORED ON THE OPEN-FRAME RACK AGAINST THE BACK (WEST) WALL.
NFPA 13 (2016 EDITION) SECTION 14.2.1(2) AND (3) LIMIT THE STORAGE OF CLASS I-IV COMMODITIES TO 15 FT. SECTION 14.2.4 AND FIGURE 14.2.4.2 PRESCRIBE DESIGN CRITERIA FOR CLASS I-IV COMMODITIES AS 0.295 GPM/SQ FT OVER A 2,000 SQ FT OPERATING AREA. SECTION 14.2.4.3 AND FIGURE 14.2.4.3 PROVIDE DENSITY REDUCTION BASED ON A STORAGE HEIGHT OF 15 FT, RESULTING IN A DESIGN CRITERIA OF 0.21 GPM/SQ FT OVER A 2,000 SQ FT OPERATING AREA, WITH A 500 GPM HOSE ALLOWANCE.

UNDER MEZZANINE FLOOR:
NFPA 13 SECTION 14.5 PROVIDES SPECIAL DESIGN REQUIREMENTS FOR SHELF AND BIN BOX STORAGE OF CLASS I-IV COMMODITIES. SECTION 14.5.1.1 REQUIRES SPRINKLERS UNDER THE WALKWAYS. SECTION 14.5.1.2(2) REQUIRES SPRINKLERS AT A MAXIMUM OF 8 FT SPACING HORIZONTALLY, WITH A MINIMUM OF 15 PSI FOR THE MOST HYDRAULICALLY DEMANDING SIX SPRINKLERS. B.I.C. DESIGN SPECIFIES K-3.0 SPRINKLERS TO BE USED UNDER THE MEZZANINE. WATER SHIELDS AND HEAD GUARDS ARE REQUIRED.

LOW-BAY AREA:
AUTO PARTS (CARTONED ENCAPSULATED OR NONENCAPSULATED, OR EXPOSED ENCAPSULATED OR NONENCAPSULATED) CAN BE STORED UP TO 7'-2" FT HIGH AS FOLLOWS: SOLID-PILED OR PALLETIZED ON THE FLOOR, IN BIN BOXES, ON SOLID SHELVING, OR ON BACK-TO-BACK SOLID SHELVING. NFPA 13 SECTION 14.2.3.1 AND TABLE 13.2.1 PROVIDE DESIGN CRITERIA FOR CLASS I-IV COMMODITIES IN SUCH STORAGE ARRANGEMENTS AS ORDINARY HAZARD GROUP 2 (0.20 GPM/SQ FT OVER A 1,500 SQ FT OPERATING AREA, WITH A 250 GPM HOSE ALLOWANCE).

STORAGE OF HOSES AND OTHER GROUP A PLASTICS:
COMMODITIES THAT CONTAIN OVER 15% BY WEIGHT OF PLASTICS ARE CONSIDERED GROUP A PLASTICS.

HIGH-BAY AREA:
HOSES AND ANY OTHER GROUP A PLASTIC COMMODITIES (CARTONED OR EXPOSED, ENCAPSULATED OR NONENCAPSULATED) MUST BE STORED IN THE DESIGNATED "HOSES AND PLASTICS/RUBBER STORAGE AREA" LOCATED IN THE SOUTHWEST CORNER OF THE MEZZANINE. WITHIN THE "HOSES AND PLASTICS/RUBBER STORAGE AREA," STORAGE IS TO BE ON THE SOLID SHELVES IN THE ABOVE-MEZZANINE AREA, BUT THE COMMODITIES MUST NOT BE STORED ON THE TOP SHELF IN ORDER TO LIMIT THE TOP OF STORAGE HEIGHT TO A MAXIMUM OF 15 FT.
NFPA 13 SECTION 15.2.2.1(2) LIMITS THE STORAGE OF GROUP A PLASTIC COMMODITIES TO 15 FT. FIGURE 15.2.2.1 FOR STABLE, CARTONED OR EXPOSED, GROUP A NONEXPANDED PLASTIC COMMODITIES REFERS TO TABLE 15.2.2.1(A) COLUMNS C AND E. HOWEVER, FIGURE 15.2.2.1 HAS MISLABELED THE REFERENCES TO TABLES 15.2.2.1(A) AND (B) DUE TO CARRY-OVER FROM THE 2013 EDITION OF NFPA 13. FIGURE 15.2.2.1 SHOULD REFERENCE TABLES 15.2.2.2(A) AND (B). THEREFORE, THE PROPER DESIGN CRITERIA IS FOUND IN TABLE 15.2.2.2(A) COLUMNS C AND E AS WELL AS SECTION 15.2.2.7 FOR MAXIMUM 15 FT HIGH STORAGE WITH CEILING HEIGHT UNDER 25 FT AS 0.70 GPM/SQ FT OVER A 2,500 SQ FT OPERATING AREA, WITH A 500 GPM HOSE ALLOWANCE. THIS DESIGN CRITERIA EXTENDS A MINIMUM OF 15 FT BEYOND THE BOUNDARY OF THE DESIGNATED "HOSES AND PLASTICS/RUBBER STORAGE AREA" IN ALL DIRECTIONS.

LOW-BAY AREA:
HOSES AND OTHER GROUP A PLASTIC COMMODITIES (CARTONED OR EXPOSED, ENCAPSULATED OR NONENCAPSULATED) CAN BE STORED UP TO 5 FT HIGH AS FOLLOWS: SOLID-PILED OR PALLETIZED ON THE FLOOR, IN BIN BOXES, ON SOLID SHELVING, OR ON BACK-TO-BACK SOLID SHELVING. NFPA 13 SECTION 15.2.1 AND TABLE 13.2.1 PROVIDE DESIGN CRITERIA FOR GROUP A PLASTIC COMMODITIES IN SUCH STORAGE ARRANGEMENTS AS ORDINARY HAZARD GROUP 2 (0.20 GPM/SQ FT OVER A 1,500 SQ FT OPERATING AREA, WITH A 250 GPM HOSE ALLOWANCE).

STORAGE OF IGNITABLE LIQUIDS:
IGNITABLE LIQUIDS INCLUDES FLAMMABLE AND COMBUSTIBLE LIQUIDS AS DEFINED IN NFPA 30 (2018 EDITION). NAPA HAS STATED A MAXIMUM QUANTITY OF THE FOLLOWING CLASSES OF IGNITABLE LIQUIDS TO BE PRESENT IN THE FACILITY:

CLASS IB: 73 GAL.
CLASS II: 76 GAL.
CLASS IIIA: 51 GAL.
CLASS IIIB: 524 GAL.
NFPA 30 TABLE 9.6.1 AND NOTE 2 BELOW THE TABLE ESTABLISH MAXIMUM ALLOWABLE QUANTITIES (MAQS) FOR EACH CLASS OF IGNITABLE LIQUID. NAPA'S STATED MAXIMUM QUANTITY OF EACH CLASS OF IGNITABLE LIQUID TO BE PRESENT IN THE FACILITY IS LESS THAN THE MAQS FROM NFPA 30. THEREFORE, NFPA 30 DESIGN CRITERIA DOES NOT APPLY. RATHER, THE DESIGN CRITERIA IS TO COME FROM NFPA 13.

HIGH-BAY AREA:
IGNITABLE LIQUIDS MUST BE STORED IN THE DESIGNATED "IGNITABLE LIQUIDS STORAGE AREA" ON THE FLOOR IN THE SOUTHWEST CORNER OF THE BUILDING OR ON THE OPEN-FRAME RACKING ALONG THE BACK (WEST) WALL. PER NFPA 13 SECTION 5.4.2, EXTRA HAZARD GROUP 2 (0.40 GPM/SQ FT OVER A 2,000 SQ FT OPERATING AREA USING HIGH-TEMPERATURE SPRINKLERS, WITH A 500 GPM HOSE ALLOWANCE) IS PRESCRIBED TO PROTECT OCCUPANCIES WITH MODERATE TO SUBSTANTIAL AMOUNTS OF IGNITABLE LIQUIDS. THIS DESIGN CRITERIA MUST EXTEND A MINIMUM OF 15 FT BEYOND THE BOUNDARY OF THE DESIGNATED "IGNITABLE LIQUIDS STORAGE AREA" IN ALL DIRECTIONS.
PER NFPA 30B SECTION 6.4.4.3(2), IGNITABLE LIQUIDS MUST BE SEPARATED FROM AEROSOLS BY AT LEAST 25 FT.

LOW-BAY AREA:
IGNITABLE LIQUIDS MUST BE STORED ON SOLID SHELVING IN THE DESIGNATED "IGNITABLE LIQUIDS STORAGE AREAS". A MINIMUM SEPARATION DISTANCE OF 25 FT MUST BE MAINTAINED BETWEEN IGNITABLE LIQUIDS AND ANY AEROSOLS.
PER NFPA 13 SECTION 5.4.2, EXTRA HAZARD GROUP 2 (0.40 GPM/SQ FT OVER A 2,000 SQ FT OPERATING AREA USING HIGH-TEMPERATURE SPRINKLERS, WITH A 500 GPM HOSE ALLOWANCE) IS PRESCRIBED TO PROTECT OCCUPANCIES WITH MODERATE TO SUBSTANTIAL AMOUNTS OF IGNITABLE LIQUIDS. THIS DESIGN CRITERIA MUST EXTEND A MINIMUM OF 15 FT BEYOND THE BOUNDARY OF THE DESIGNATED "IGNITABLE LIQUIDS STORAGE AREA" IN ALL DIRECTIONS.

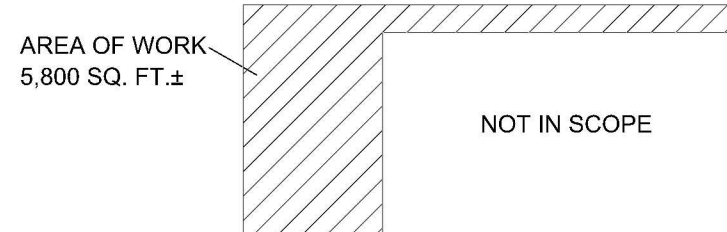
STORAGE OF AEROSOLS:
NAPA HAS STATED A MAXIMUM QUANTITY OF 1,105 LB LEVEL 3 AEROSOLS TO BE PRESENT IN THE FACILITY. NAPA'S STORAGE OF AEROSOLS IN THIS FACILITY IS CONSIDERED AS A GENERAL-PURPOSE WAREHOUSE PER NFPA 30B (2019 EDITION) SECTION 3.3.38.2. IF SPRINKLERED PER ALL APPLICABLE NFPA REQUIREMENTS, SECTION 6.4.4.3 PRESCRIBES A TOTAL AEROSOL STORAGE LIMIT OF 2,500 LBS. WITHIN THE FACILITY. NFPA 30B SECTION 6.4.2.3 PROHIBITS THE STORAGE OF LEVEL 3 AEROSOLS WHOSE CONTAINERS ARE DESIGNED TO VENT AT GAUGE PRESSURES OF LESS THAN 210 PSI.

HIGH-BAY AREA:
AEROSOLS MUST BE STORED IN THE DESIGNATED "AEROSOLS STORAGE AREA" IN THE NORTHWEST CORNER OF THE FACILITY, WHILE MAINTAINING A MINIMUM OF 4 FT WIDE EGRESS ROUTE TO THE DOOR LOCATED IN THE NORTHWEST CORNER OF THE FACILITY. AEROSOLS MUST BE CARTONED (IN CLOSED CARDBOARD BOXES) AND CAN BE STORED UP TO 15 FT HIGH AS PALLETIZED OR SOLID-PILED FLOOR STORAGE PER NFPA 30B TABLE 6.4.2.7(B), OR UP TO 15 FT HIGH ON OPEN-FRAME RACKING PER TABLE 6.4.2.7(H). BOTH TABLES 6.4.2.7(B) AND 6.4.2.7(H) PROVIDE A DESIGN CRITERIA OF ORDINARY-TEMPERATURE, ESFR PENDENT SPRINKLERS WITH 12 K-22.4 SPRINKLERS OPERATING AT 25 PSI, WITH A HOSE ALLOWANCE OF 250 GPM. THE AEROSOL STORAGE AREA IS SMALL ENOUGH THAT ONLY FOUR ESFR SPRINKLERS ARE REQUIRED. A DRAFT CURTAIN IS REQUIRED TO SEPARATE THE AEROSOL STORAGE FROM THE ADJACENT AREA. A 2 FT WIDE NO-STORAGE AREA MUST BE MAINTAINED ON EITHER SIDE OF THE DRAFT CURTAIN, RESULTING IN A 4 FT WIDE NO-STORAGE AREA CENTERED ON THE DRAFT CURTAIN. PER NFPA 30B SECTION 6.4.4.3(2), IGNITABLE LIQUIDS MUST BE SEPARATED FROM AEROSOLS BY AT LEAST 25 FT.

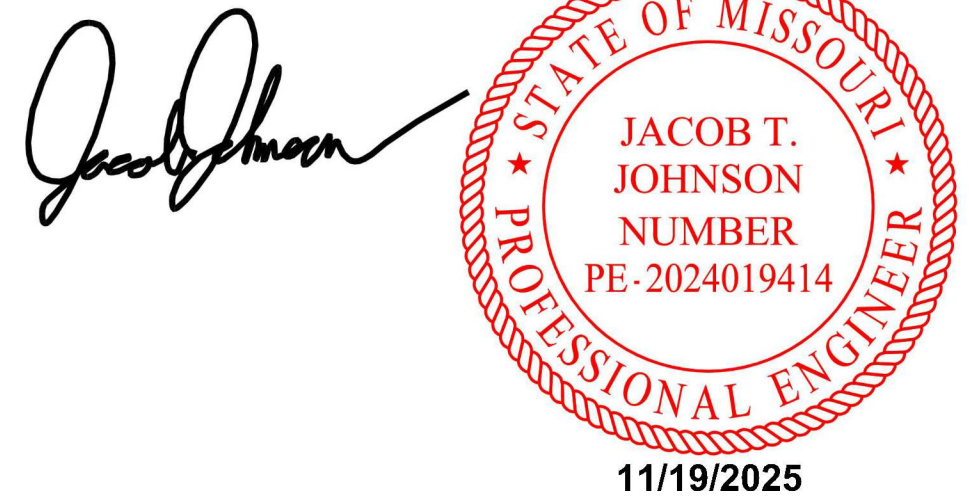
LOW-BAY AREA ACCESSIBLE TO THE PUBLIC:
THE AREA ACCESSIBLE TO THE PUBLIC IS CONSIDERED MERCANTILE OCCUPANCY, AND AS SUCH, NFPA 30B SECTION 7.2 APPLIES FOR STORAGE UP TO 8 FT HIGH. PER SECTIONS 7.2.4 AND 7.2.4.1, AEROSOLS CAN BE STORED AS PALLETIZED OR SOLID-PILED ON THE FLOOR OR ON SOLID SHELVING. SECTION 7.2.3.2 PROVIDES A DESIGN CRITERIA OF ORDINARY HAZARD GROUP 2 FOR AEROSOLS IN DISPLAY AREAS AS LONG AS THE AEROSOLS DO NOT EXCEED A STORAGE DENSITY OF 2 LB./SQ. FT., NO SINGLE 10 FT. X 10 FT. AREA SHALL CONTAIN MORE THAN 1,000 LB. OF AEROSOLS. ADDITIONALLY, PER SECTIONS 7.2.2, 7.2.2.2, 7.2.3.1, AND TABLE 7.2.3.1, SINCE THE TOTAL QUANTITY OF AEROSOLS IN THE FACILITY IS LESS THAN 2,500 LB., THEN AEROSOLS CAN BE STORED/DISPLAYED IN THE MERCANTILE OCCUPANCY AREA AS EITHER CARTONED, UNCARTONED, OR DISPLAY-CUT. THE STORAGE DENSITY LIMIT OF 2 LB./SQ. FT. MAY MEAN LIMITING AEROSOLS TO ONLY ONE LAYER FOR SOLID-PILED AND PALLETIZED (ON FLOOR), AND LIMITING AEROSOLS TO ONLY ONE SOLID SHELF LEVEL ON A SET OF SOLID SHELVING.

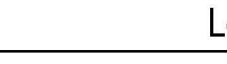
LOW-BAY AREA NOT ACCESSIBLE TO THE PUBLIC: NO AEROSOLS ARE PERMITTED IN THE PORTION OF THE LOW-BAY AREA THAT IS NOT ACCESSIBLE TO THE PUBLIC.

OTHER AREAS:
OFFICE/SERVER ROOM: ORDINARY HAZARD GROUP 1 PER NFPA 13.
BREAK ROOM, CORRIDOR, RESTROOMS, OFFICE: LIGHT HAZARD PER NFPA 13.



KEY PLAN
NO SCALE



			 b.i.c. design co. NORTH KANSAS CITY, MISSOURI (816) 221-0551 B.I.C. DESIGN CO. ASSUMES NO LIABILITY FOR USE OF UNLISTED OR UNSPECIFIED MATERIAL AND FOR ANY ALTERATIONS MADE TO THIS DESIGN DURING THE INSTALLATION.	NAPA Auto Parts 2321 NE Independence Ave. Lee's Summit, MO 64064		REVIEWED BY OWNER		
					PHOENIX FIRE LLC 1849 S. 14th St. Kansas City, Kansas (816) 838-1996 mbutler@phoenixfirellc.com		DRAWN BY BCP	
							SCALE 1/8"=1'-0"	DATE 11/19/2025
							CONTRACT NUMBER	
NO.	DATE	REVISIONS				SHEET NUMBER		
PLOT DATE		PLOT TYPE				FP1 of 2		
11/19/25		FOR APPROVAL						

GENERAL NOTES & LEGEND

THESE SHOP DRAWINGS ARE BASED ON THE OWNER'S ACCEPTANCE OF NFPA 25 AS THE OWNER'S STANDARD FOR THE INSPECTION, TESTING AND MAINTENANCE OF WATER-BASED FIRE PROTECTION SYSTEMS.

OWNER TO PROVIDE ADEQUATE HEAT THROUGHOUT ALL AREAS WITH WET PIPE TO PREVENT PIPING FROM FREEZING.

ALL DESIGN, MATERIAL & INSTALLATION TO COMPLY WITH ALL LOCAL REQUIREMENTS AND APPLICABLE NFPA STANDARDS.

B.I.C. DESIGN CO. ASSUMES NO LIABILITY FOR USING UNLISTED OR UNSPECIFIED MATERIALS AND FOR ANY ALTERATIONS MADE TO THIS DESIGN DURING INSTALLATION.

SPRINKLERS REQUIRED IN ALL CONCEALED SPACES THAT CONTAIN COMBUSTIBLES. SPRINKLERS NOT REQUIRED IN CONCEALED SPACES THAT ARE COMPLETELY FREE OF COMBUSTIBLES.

CENTRAL MONITORING OF SPRINKLER SYSTEM TO BE BY OTHERS.

ALL ELECTRICAL WIRING TO BE BY OTHERS.

ALL SPRINKLER PIPING TO BE SUPPORTED IN ACCORDANCE W/ NFPA 13.

ALL PENETRATIONS THROUGH FIRE-RATED PARTITIONS, SMOKE PARTITIONS AND FLOORS TO BE FIRESTOPPED WITH U.L. LISTED FIRESTOP SYSTEMS WITH A RATING EQUIVALENT TO THE RATING OF THE PARTITION OR FLOOR.

IF WET PIPE SYSTEM PRESENT, INSTALL AIR VENT NEAR THE HIGH POINT OF THE SYSTEM. VENT SHALL BE EITHER:

- 1) MANUAL VALVE (2" MINIMUM)
- 2) AUTOMATIC
- 3) OTHER APPROVED METHODS

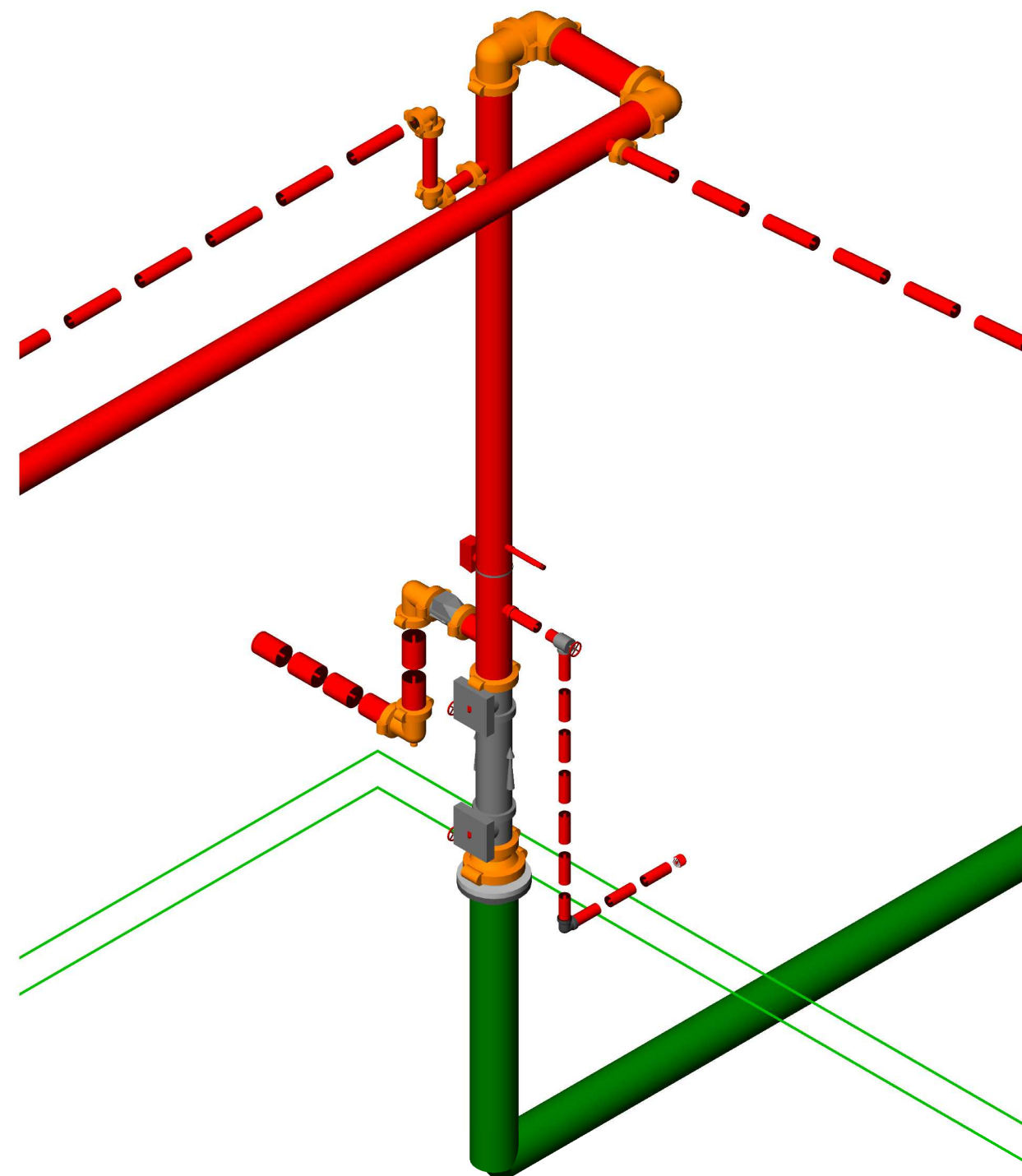
BOP - BOTTOM OF STEEL PURLIN ELEV. ABOVE FINISHED FLOOR

POL - PIPE-O-LET G.S.N. - GROOVE SHAPED NIPPLE
DN - DOWN OR DROP NIPPLE RN - RISER NIPPLE
H.F.T. - TO BE HUNG IN FIELD COU - CUT ON JOB
U.N.O. - UNLESS NOTED OTHERWISE N.T.S. - NOT TO SCALE

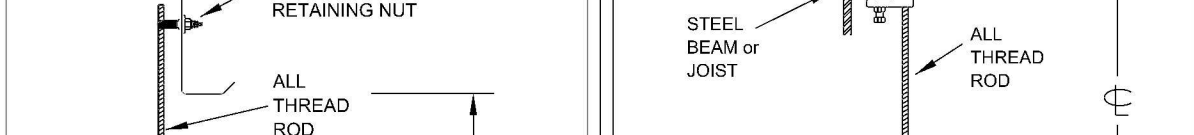
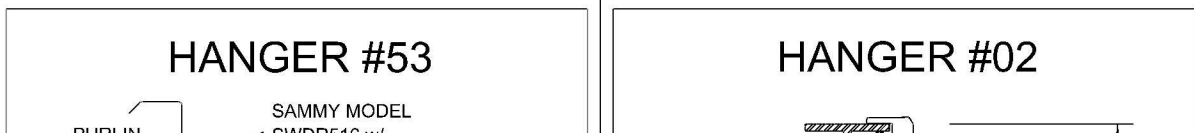
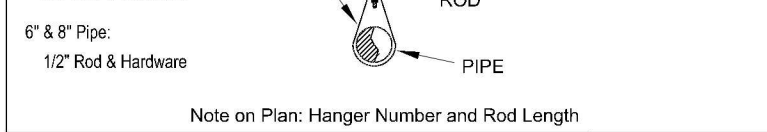
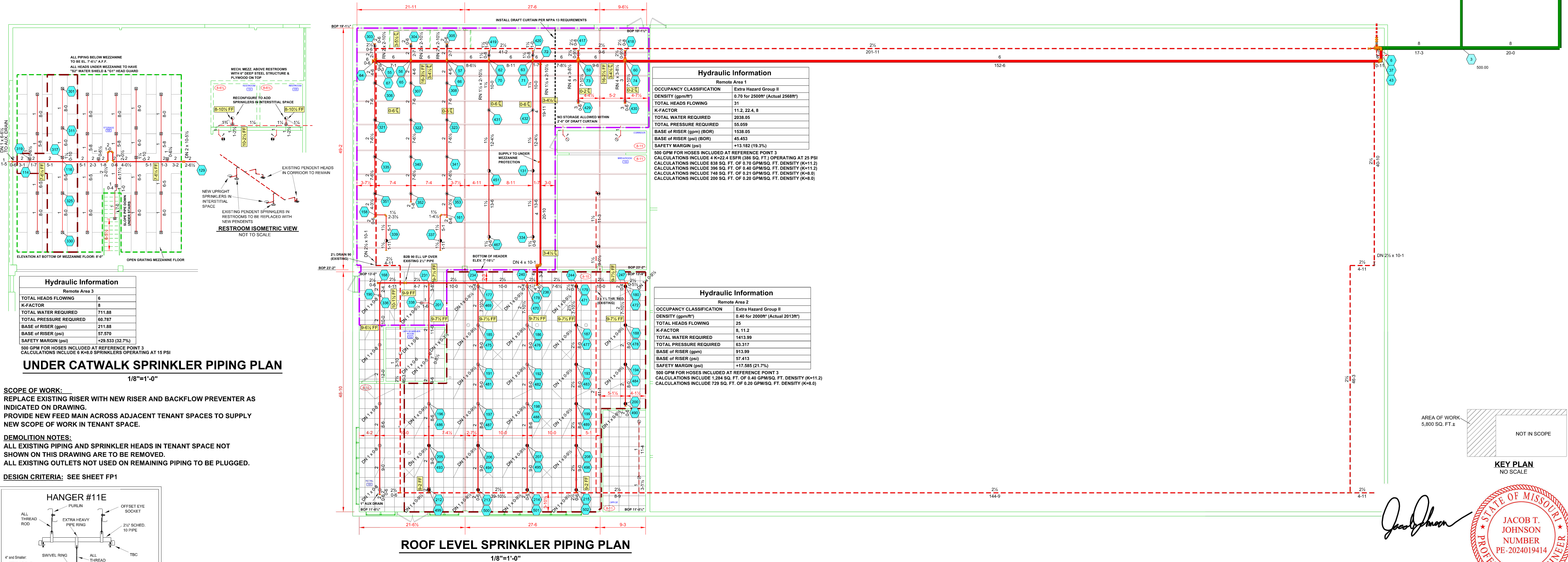
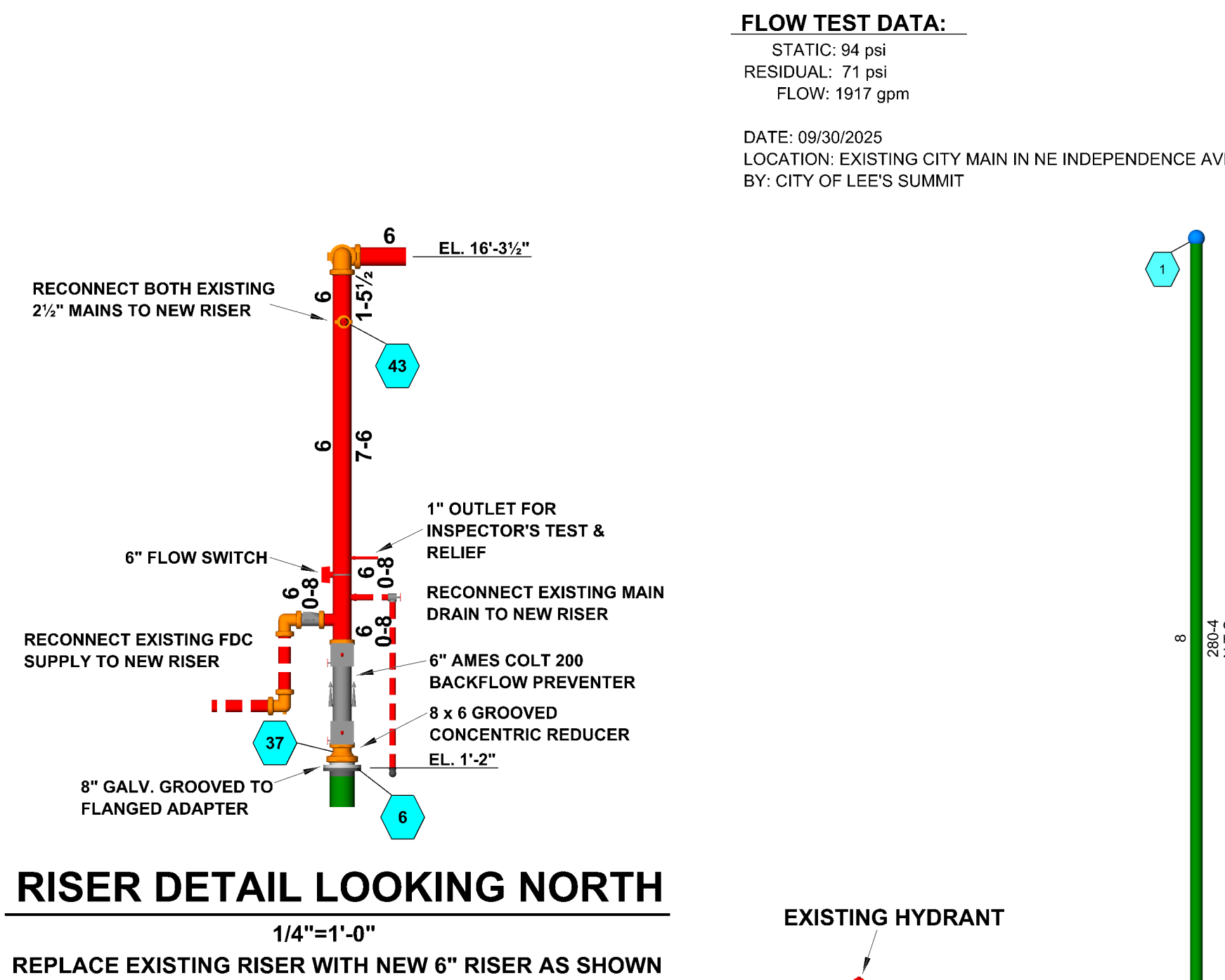
- 0'-0" FF - CENTERLINE OF PIPE TO FINISHED FLOOR
- 0'-0" L - CENTERLINE OF PIPE FROM T.J. TO S. OF BOP
- 0'-0" - CEILING HEIGHT ABOVE FINISHED FLOOR

- GROOVED COUPLING
- NEW PIPE
- EXISTING PIPE
- APPROVED TYPE HANGER ON PIPE
- HYDRAULIC REFERENCE POINT

ROOF LEVEL ISOMETRIC PLAN
NO SCALE



RISER DETAIL ISOMETRIC
NO SCALE



NFPA 13 - (2016 Edition) - Table 9.2.2.1(a) Maximum Distance between Hangers (R-in.)

Nominal Pipe Size (in.)	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	3 1/2"	4"	5"	6"	8"
Steel pipe except threaded/lightwall	N/A	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"
Threaded Lightwall Steel pipe	N/A	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"	N/A	N/A	N/A	N/A
Copper Tube	8'-0"	8'-0"	10'-0"	10'-0"	10'-0"	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"
CPVC	7'-0"	7'-0"	7'-0"	7'-0"	7'-0"	7'-0"	7'-0"	7'-0"	7'-0"	N/A	N/A	N/A	N/A
Polybutylene (PB)	N/A	3'-0"	3'-0"	3'-0"	3'-0"	3'-0"	3'-0"	3'-0"	3'-0"	N/A	N/A	N/A	N/A
Polyethylene (CTB)	2'-0"	2'-0"	2'-0"	2'-0"	2'-0"	2'-0"	2'-0"	2'-0"	2'-0"	N/A	N/A	N/A	N/A

Note: (PB) Iron Pipe Size and (CTB) Copper Tube Size

Sprinkler Legend (NAPA TENANT)

Symbol	Manufacturer	SIN	Model	Quantity	K-Factor	Type	Size	Response	Finish	Temperature
●	Tyco	TY2251	ELO-231B	16	11.2	Pendent	1/2"	Standard	Chrome	286°F
●	Tyco	TY4251	TY-B	15	8	Pendent	1/2"	Standard	Chrome	286°F
●	Tyco	TY4231	TY-FRB	29	8	Pendent	1/2"	Quick	Natural Brass	155°F
●	Tyco	TY3199	CC3	2	5.6	Upright	1/2"	Quick	Natural Brass	200°F
●	Tyco	TY5551	ELO-231B	19	11.2	Upright	1/2"	Standard	Natural Brass	286°F
●	Tyco	TY2331	TY-FRB	4	5.6	Pendent	1/2"	Quick	Chrome	200°F
●	Tyco	TY8223	ESFR-22	4	22.4	Pendent	1"	Fast	Natural Brass	286°F
●	Tyco	TY4151	TY-B	6	8	Upright	1/2"	Standard	Natural Brass	286°F
●	Existing	K-5.6 QR	Ordinary Temp. Pendent to Remain							
●	Existing	K-14 EC	Pendent to Remain							
				Total = 95						

B.I.C. DESIGN CO. DOES NOT GUARANTEE THE CORRECTNESS OF THE EXISTING SPRINKLER SYSTEM DESIGN OR INSTALLATION IN THE REMAINDER OF THIS BUILDING OUTSIDE OF THIS TENANT SPACE.

B.I.C. DESIGN CO. DOES NOT GUARANTEE THE CORRECTNESS OF THE EXISTING SPRINKLER SYSTEM INSTALLATION IN THE TENANT SPACE.

NO.	DATE	REVISIONS
11/19/25		FOR APPROVAL



B.I.C. DESIGN CO. ASSUMES NO LIABILITY FOR USE OF UNLISTED OR UNSPECIFIED MATERIAL AND FOR ANY ALTERATIONS MADE TO THIS DESIGN DURING THE INSTALLATION.

PIPE TYPE:	BUILDING TYPE: EXISTING
NEW WELDED PIPING TO BE GROOVED SCHEDULE 10 NEW THREADED PIPING TO BE SCHEDULE 40	CONSTRUCTION: EXISTING METAL DECK ROOF ON STEEL PURLINS & BEAMS @ ELEVATION (BOP) AS NOTED ON PLANS.

FIRE SPRINKLER PIPING PLAN

NAPA Auto Parts
2321 NE Independence Ave.
Lee's Summit, MO 64064

PHOENIX FIRE LLC
1849 S. 14th St.
Kansas City, Kansas
(816) 838-1996
mbutler@phoenixfirellc.com

REVIEWED BY OWNER
DRAWN BY BCP

SCALE: 1/8"=1'-0"
DATE: 11/19/2025
CONTRACT NUMBER: 25-3469
SHEET NUMBER: FP2 of 2

