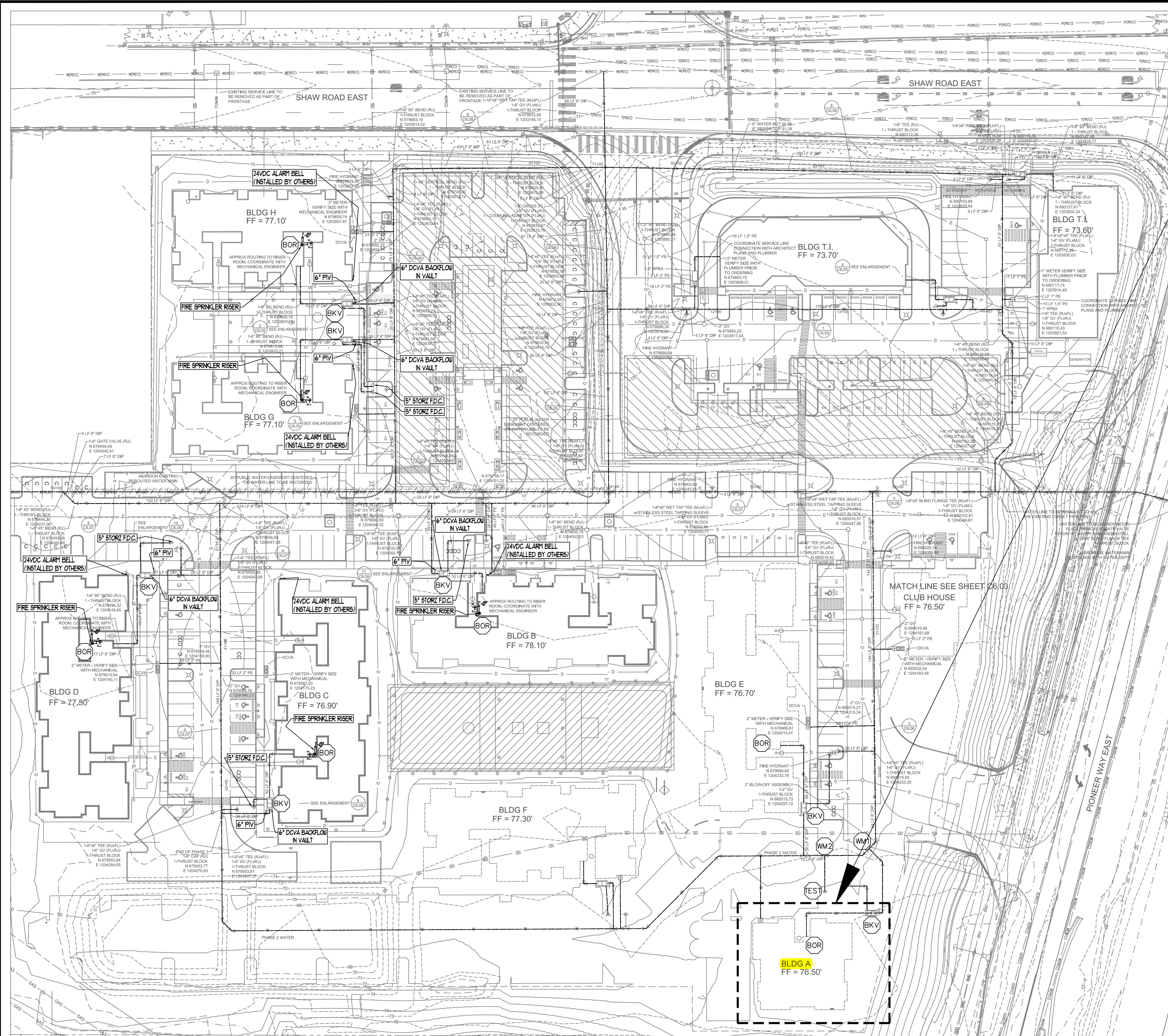
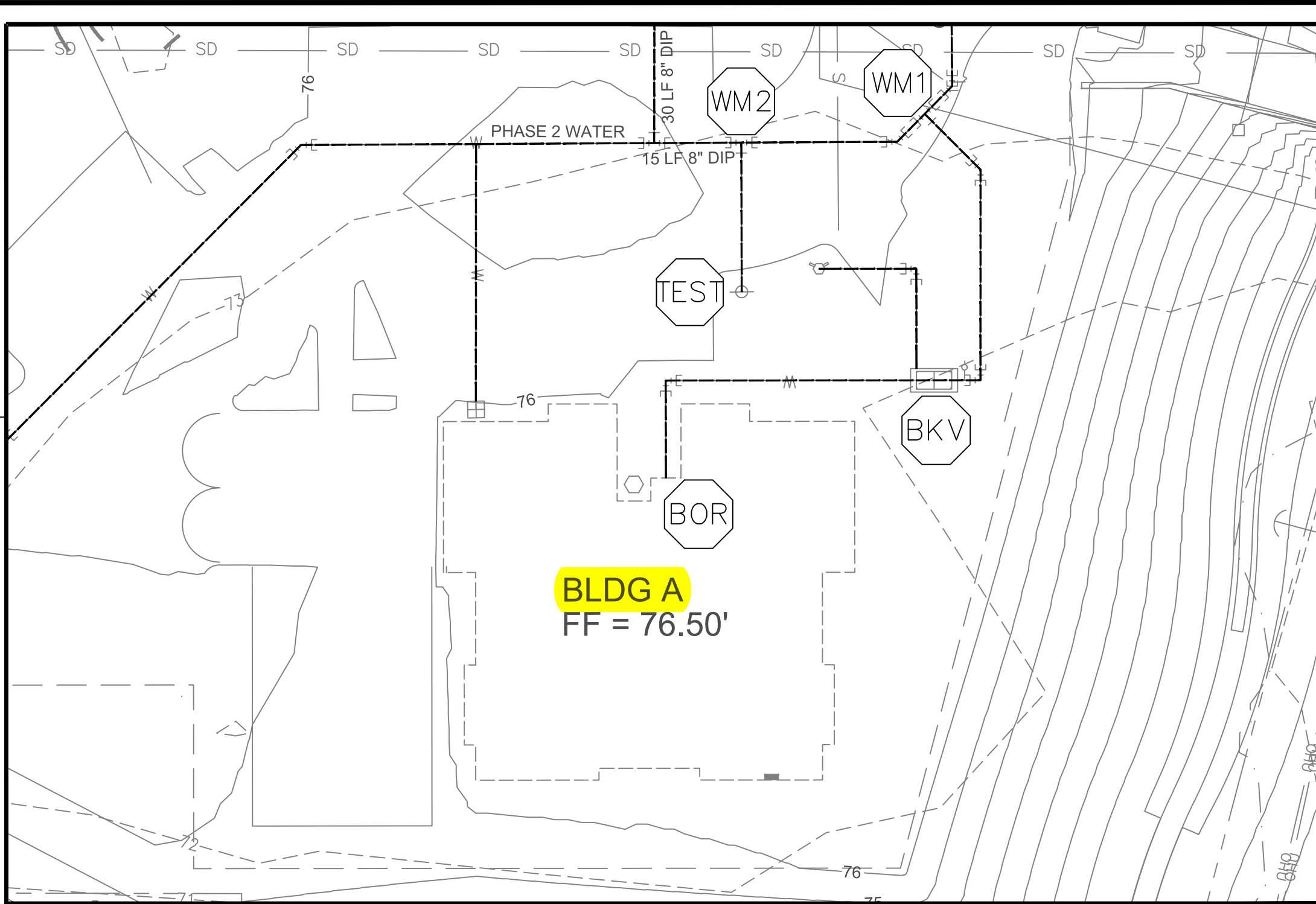




SITE PLAN
SCALE: 1" = 40'-0"
PROJECT NORTH

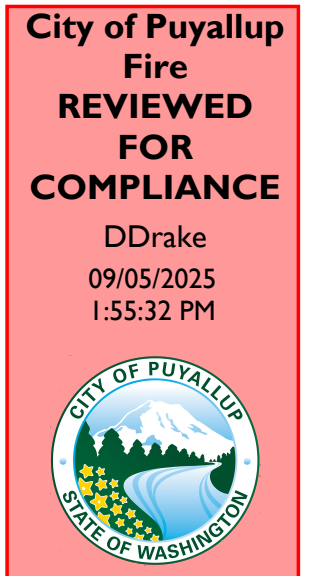
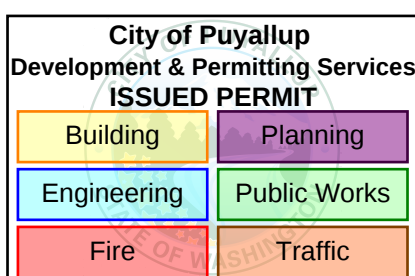


BUILDING-A SITE PLAN
SCALE: 1" = 20'-0"
PROJECT NORTH



VICINITY MAP
SCALE: NTS
PROJECT NORTH

FLOW TEST INFORMATION	
STATIC	40 PSI
RESIDUAL	25 PSI
FLOWING	1560 GPM
LOCATION	AT SITE
BY WHO	CITY OF PUYALLUP WATER DIVISION



THE APPROVED CONSTRUCTION PLANS AND ALL ENGINEERING MUST BE POSTED ON THE JOB AT ALL INSPECTIONS IN A VISIBLE AND READILY ACCESSIBLE LOCATION.

Approval of submitted plans is not an approval of omissions or oversight by this office or noncompliance with any applicable regulations of local government. The contractor is responsible for making sure that the building complies with all applicable building codes and regulations of the local government.

SPRINKLER HEAD SCHEDULE					NOTE
SYMBOL	COUNT	THREAD	K-FACTOR	DESCRIPTION	
⊙	96	1/2"	4.9	HEAD1= VIKING VK468 WHITE RESIDENTIAL RECESSED PENDENT 175°F.	on Drop
◄	29	1"	5.6	SIDE1= VIKING VK178 QR CHROME DRY HORIZONTAL SIDEWALL 200°F.	
125 = TOTAL NUMBER OF HEADS BUILDING A					

PROJECT: EAST TOWN CROSSING BUILDING A
ADDRESS: 2902 E PIONEER
CITY: PUYALLUP, WA 98372
TITLE: FIRE SPRINKLER SITE PLAN DRAWING

REVISIONS
BY: []
DATE: []
DESCRIPTION: []

GENERAL: R & R CONSTRUCTION CONSULTING LLC
ADDRESS: 7809 PACIFIC AVE
CITY: TACOMA, WA 98408
SUPER: ADAM RAYGOR
JOB PHONE: 253-961-9976
FIELD INSPECTIONS
NAME: CITY OF PUYALLUP
PHONE: (253) 864-4165

STANDARD SYMBOLS
Pipe Coupling
Pipe Drop
Pipe Rise
Pipe End Cap
2-WAY EARTHQUAKE BRACE
4-WAY EARTHQUAKE BRACE
PIPE HANGER
Hydraulic Reference Points
Elev. Below Top of Steel
Elev. Above Finished Floor
Ceiling Height

WA. STATE LEVEL 3 STAMP
3 Expires 09/05/2025
WASHINGTON STATE
CERTIFICATE OF COMPETENCY
FIRE SPRINKLER SYSTEMS
Joseph G. Faulkner
9491-0699-CEG Level 3
Sprinx Fire Protection, Inc.
SPRINXFP0111LS
Signature: [] Date: 09/05/2025

Project No. 24-093CM
Sheet Title: SITE PLAN

Scale: 1" = 40'-0"

Page 1 of 4

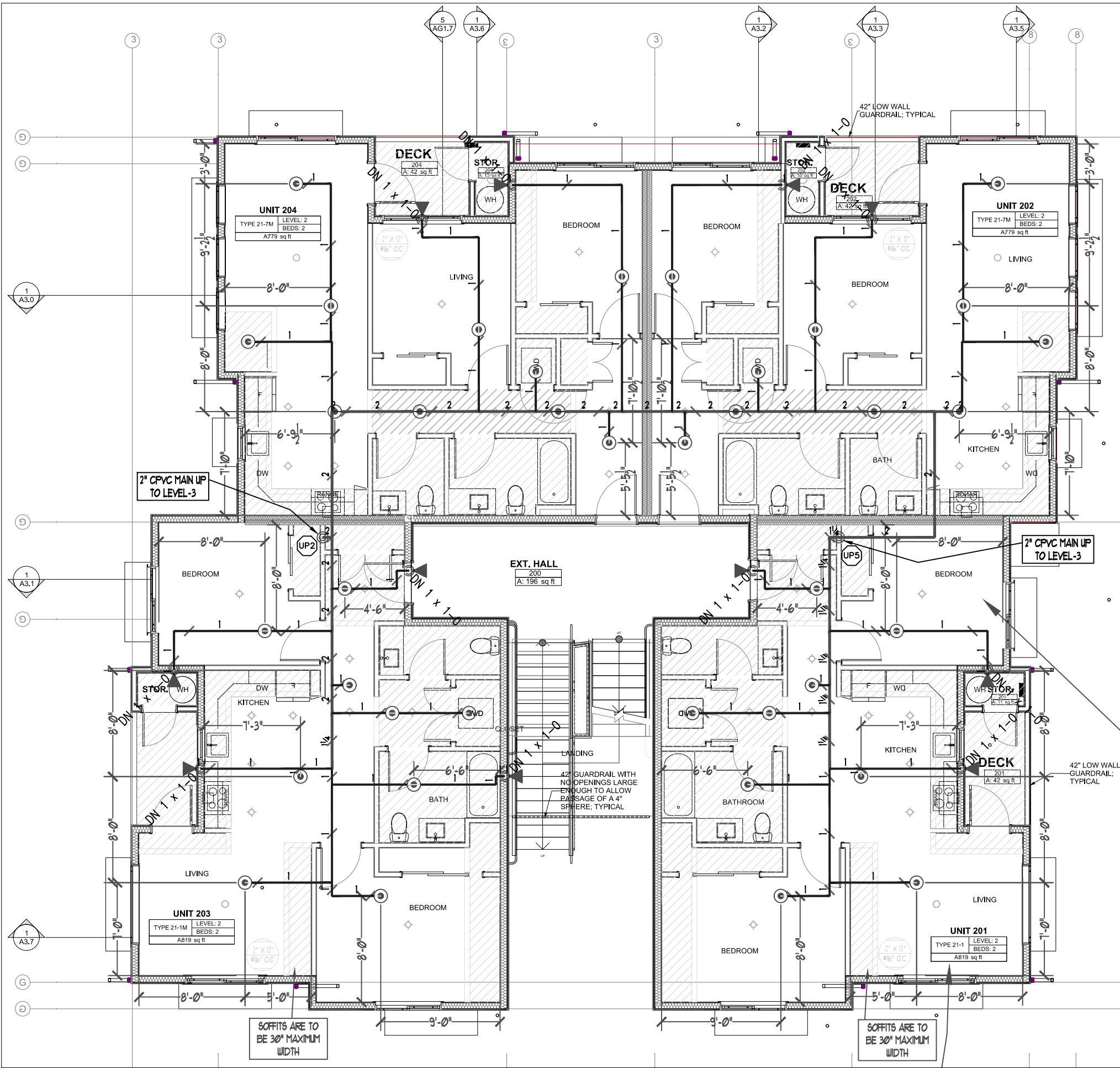
SPRINX
FIRE PROTECTION

A Fire
Sprinx
Corporation
Est. 1999
2709 ANN AVE NW, SUITE 402
Gig Harbor, WA 98343-1735
Phone: 253.853.5690
Fax: 253.853.5690

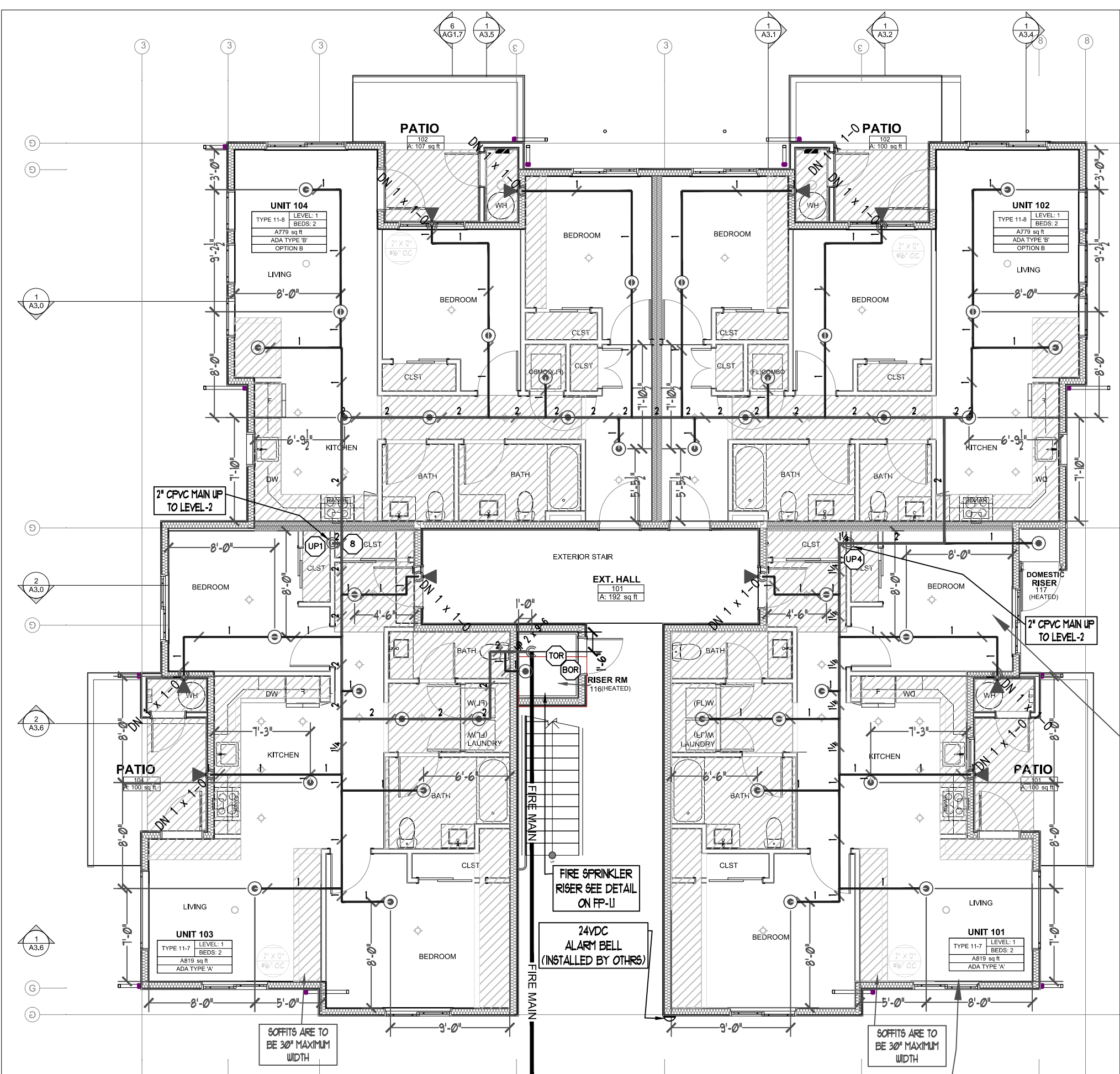
Date: 12/03/2024 Drawn: AJP

FP-1.0

File Name: ETC SITE PLAN.dwg



LEVEL-2 FIRE SPRINKLER PLAN
SCALE: 1/8" = 1'-0"
PROJECT NORTH



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

CONTRACTOR TO POSITION 2-4 LIGHTS IN ALL BEDROOMS
OFF CENTER BY MINIMUM OF 3'-0" TO ALLOW PROPER CLEARANCES
TO FIRE SPRINKLERS.

CONTRACTOR TO POSITION ALL COMMON SPACE LIGHTING
IN ACCORDANCE WITH NFPA 13

DROPPED CEILING

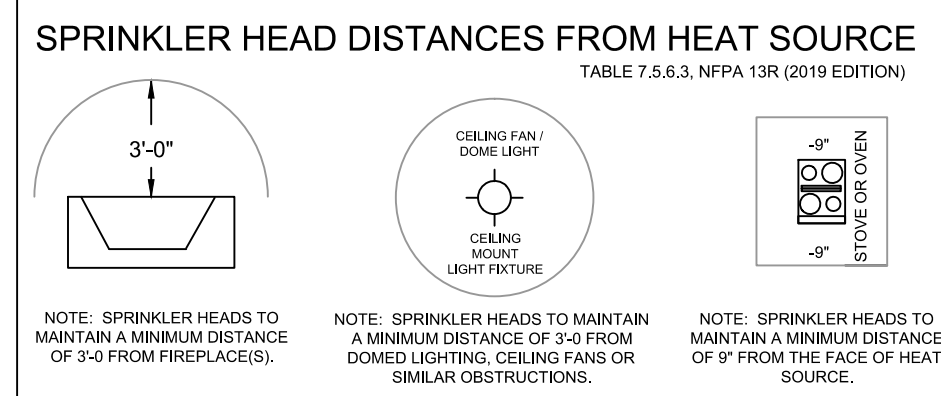
CONTRACTOR TO POSITION 2-4 LIGHTS IN ALL BEDROOMS
OFF CENTER BY MINIMUM OF 3'-0" TO ALLOW PROPER CLEARANCES
TO FIRE SPRINKLERS.

CONTRACTOR TO POSITION ALL COMMON SPACE LIGHTING
IN ACCORDANCE WITH NFPA 13

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

MINIMUM DISTANCES FROM HEAT SOURCES		
	Minimum Distance from Edge of Source to Sprinkler	Minimum Distance from Edge of Source to Intermediate Temp. Sprinkler
SIDE OF OPEN OR RECESSED FIREPLACE	36"	12"
FRONT OF RECESSED FIREPLACE	60"	36"
COAL-OR WOOD-BURNING STOVE	42"	12"
KITCHEN RANGE	18"	9"
WALL OVEN	18"	9"
HOT AIR FLUES	18"	9"
UNINSULATED HEAT DUCTS	18"	9"
UNINSULATED HOT WATER PIPES	12"	6"
SIDE OF CEILING OR WALL MOUNTED HOT AIR DIFFUSERS	24"	12"
FRONT OF WALL-MOUNTED HOT AIR DIFFUSERS	36"	18"
HOT WATER HEATER OR FURNACE	6"	3"
LIGHT FIXTURE	6"	3"
0W - 250W	6"	3"
250W - 499W	12"	6"



RESIDENTIAL PENDENT SPRINKLER OBSTRUCTION	
DISTANCE FROM SPRINKLERS TO SIDE OF OBSTRUCTION	MAXIMUM ALLOWABLE DISTANCE OF DEFLECTOR ABOVE BOTTOM OF OBSTRUCTION
LESS THAN 1 FOOT	0
1 FT TO LESS THAN 1 FT 6 IN.	1
1 FT 6 IN. TO LESS THAN 2 FT	1
2 FT TO LESS THAN 2 FT 6 IN.	1
2 FT 6 IN. TO LESS THAN 3 FT	1
3 FT TO LESS THAN 3 FT 6 IN.	3
3 FT 6 IN. TO LESS THAN 4 FT	3
4 FT TO LESS THAN 4 FT 6 IN.	3
4 FT 6 IN. TO LESS THAN 5 FT	5
5 FT TO LESS THAN 5 FT 6 IN.	7
5 FT 6 IN. TO LESS THAN 6 FT	7
6 FT TO LESS THAN 6 FT 6 IN.	9
6 FT 6 IN. TO LESS THAN 7 FT	11
7 FT OR GREATER	14

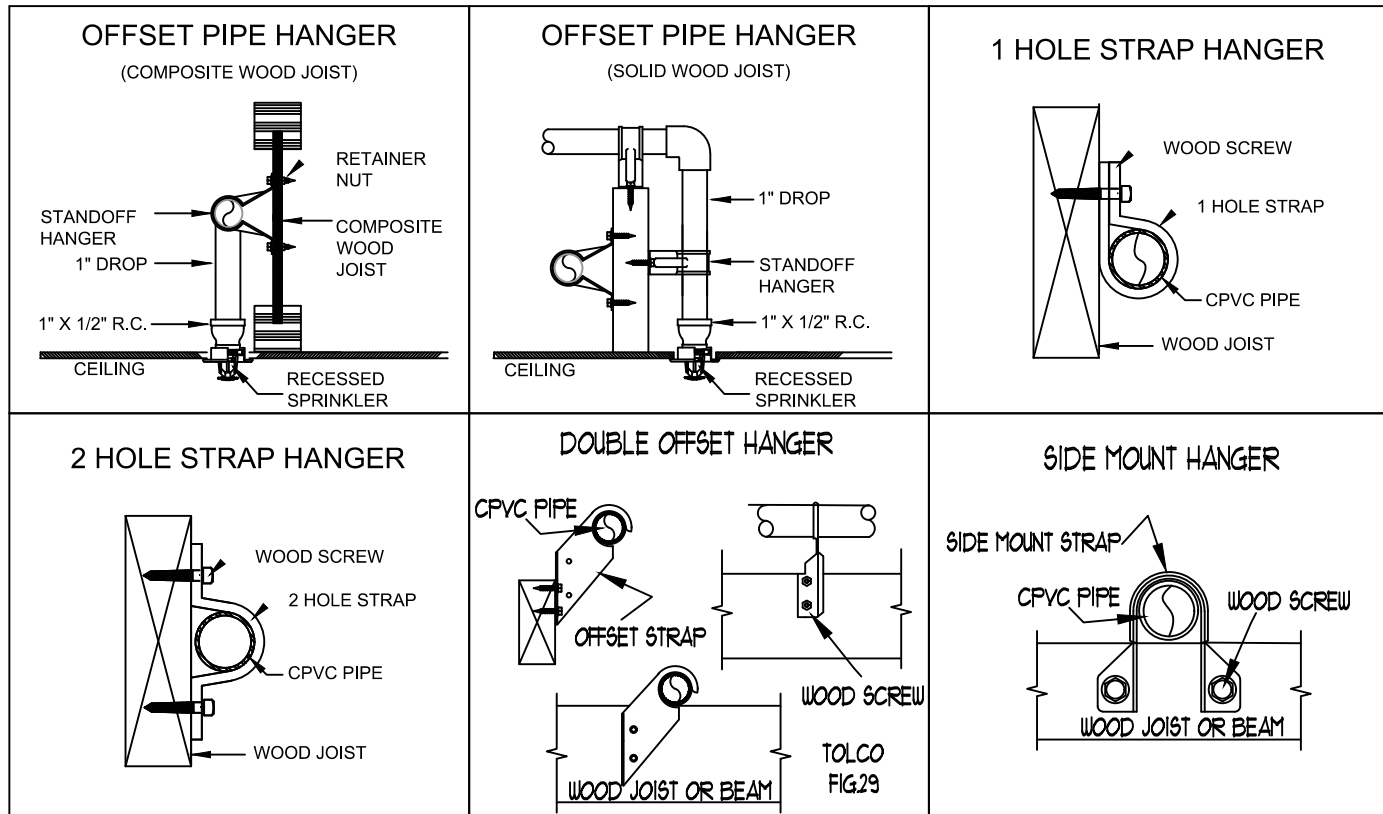
Note: Minimum Cure Prior To Pressure Testing (200 PSI)			
Pipe Size	Ambient Temperature During Cure Period		
	60 TO 120 Deg. F	40 TO 59 Deg. F	0 TO 39 Deg. F
3/4"	45 MINUTES	1 1/2 HOURS	24 HOURS
1"	45 MINUTES	1 1/2 HOURS	24 HOURS
1 1/4" & 1 1/2"	1 1/2 HOURS	16 HOURS	120 HOURS
2"	6 HOURS	36 HOURS	*
2 1/2" & 3"	8 HOURS	72 HOURS	*

* Solvent Cement can be applied at a temperature below 40 deg. F for 2" and larger, however the temperature of the system must be raised to 40 deg. F or higher and allowed to cure per the above recommendations prior to pressure testing. When drying cement, pipe or fittings in from the outside, in certain they are brought up to room temperature before using the 60 to 120 deg. F cure schedule.

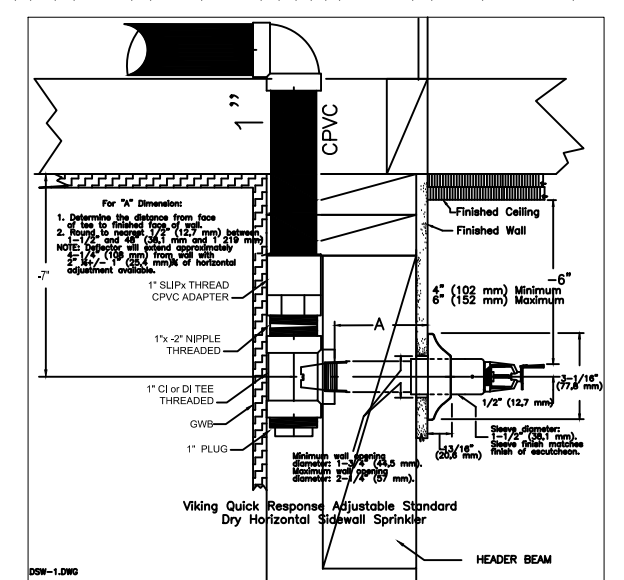
CPVC HANGER SCHEDULE AND DETAIL

TABLE 1 MAXIMUM SUPPORT SPACING DISTANCE END LINE SPRINKLER HEAD DROP ELBOW		
PIPE SIZE inches	SYSTEM PRESSURE	
3/4"	< 100 psi	9"
1"	< 100 psi	6"
1 1/4"	< 100 psi	9"
1 1/2"	< 100 psi	12"
2"	< 100 psi	12"
2 1/2"	< 100 psi	12"
3"	< 100 psi	12"

TABLE 2 SDR 33.5 (ASTM F442) HANGER SPACING		
PIPE SIZE inches	SYSTEM PRESSURE	
3/4"	< 100 psi	9"
1"	< 100 psi	6"
1 1/4"	< 100 psi	9"
1 1/2"	< 100 psi	12"
2"	< 100 psi	12"
2 1/2"	< 100 psi	12"
3"	< 100 psi	12"



* DO NOT STUB DOWN D&W'S ON LEVELS 1 & 2
SEE DECK DETAILS & BREEZEWAY DETAILS ON FP-2.0



SPRINKLER HEAD SCHEDULE				
SYMBOL	COUNT	THREAD	K-FACTOR	DESCRIPTION
⊙	96	1/2"	4.9	HEAD1= VIKING VK468 WHITE RESIDENTIAL RECESSED PENDENT 175°F.
◀	29	1"	5.6	SIDE1= VIKING VK178 OR CHROME DRY HORIZONTAL SIDEWALL 200°F.
125 = TOTAL NUMBER OF HEADS BUILDING A				

SCOPE OF WORK

INSTALL AUTOMATIC WET FIRE SPRINKLER SYSTEM FOR MULTI FAMILY DWELLING IN ACCORDANCE WITH NFPA 13R 2019 EDITION AND LOCAL AUTHORITY.

GENERAL NOTES

- ALL PIPING AND SPRINKLERS SHALL BE U.L. LISTED AND/OR F.M. APPROVED, AND SHALL BE NEW AND FREE OF DEFECTS.
- HANGER TYPES AND SPACING SHALL BE INSTALLED PER NFPA 13R AND MANUFACTURER'S LISTING.
- SPRINKLER LOCATIONS AND SPACING PER NFPA 13R AND MANUFACTURER'S LISTING.
- ANY AND ALL ALARM SYSTEM WIRING AND INSTALLATION IS BY OTHERS.
- ALL DRILLING AND BORING OF HOLES SHALL BE DONE IN STRICT ACCORDANCE WITH THE STRUCTURAL ENGINEER'S REQUIREMENTS. DO NOT UNDER ANY CIRCUMSTANCES CUT OR MODIFY PRE-MANUFACTURED TRUSSES.
- INSTALLER SHALL VERIFY FINISH CEILING ELEVATION, OBSTRUCTIONS, LIGHT FIXTURES, CABINETS, ETC PRIOR TO INSTALLATION OF SPRINKLER HEADS.
- ALL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES SHALL BE FIRE STOPPED. FIRE STOPPING MATERIAL SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTION BY OTHERS.
- SPRINKLER PIPE SIZING HAS BEEN ESTABLISHED BY HYDRAULIC CALCULATIONS.
- IT IS THE OWNER'S RESPONSIBILITY TO PROVIDE A RELIABLE WATER SUPPLY THAT IS CAPABLE OF MEETING THE MOST DEMANDING AREA.

PROJECT DETAILS

NFPA CODE: 13R 2019
SYSTEM TYPE: WET SYSTEM
PIPE TYPE: BLAZEMASTER CPVC
MAX SPRINKLER SPACING REQUIREMENTS: 16'x16" @13 GPM, 18'x18" @17 GPM (1 HEAD RM.)
MINIMUM SPRINKLER SPACING: 8' BETWEEN SPRINKLERS
MINIMUM DESIGN DENSITY: 0.05 GPM/SQ.FT.

NFPA & AHJ REQUIREMENTS

- THE DESIGN DISCHARGE SHALL BE ALL OF THE SPRINKLERS WITHIN A SINGLE COMPARTMENT, UP TO A MAXIMUM OF FOUR SPRINKLERS, THAT REQUIRE THE GREATEST HYDRAULIC DEMAND.
- SPRINKLERS SHALL NOT BE REQUIRED IN BATHROOMS OF 55 SQ. FT. AND LESS.
- SPRINKLERS SHALL NOT BE REQUIRED IN CLOTHES CLOSETS, LINEN CLOSETS, AND PANTRIES THAT DO NOT EXCEED 24 SQ. FT. AND HAVE WALLS AND CEILINGS SURFACED WITH NONCOMBUSTIBLE OR LIMITED COMBUSTIBLE MATERIALS.
- SPRINKLERS SHALL NOT BE REQUIRED IN ATTICS OR CRAWLSPACES.
- SPRINKLER HEADS SHALL BE AT LEAST 3 FT. AWAY FROM CEILING FANS AND SURFACE MOUNTED LIGHT FIXTURES.
- ALL SPRINKLERS SHALL MAINTAIN THE MINIMUM REQUIRED DISTANCES FROM HEAT SOURCES IN ACCORDANCE WITH NFPA 13R.
- SPRINKLER HEADS UNDER SLOPE CEILINGS TO BE MEASURED ALONG THE SLOPE.

CPVC FIRE SPRINKLER PIPE GUIDELINES

INSTALLING CONTRACTOR TO PROVIDE AN INSTALLATION THAT IS IN 100% COMPLIANCE WITH THESE GUIDELINES. RESIDENTIAL DESIGN CANNOT BE RESPONSIBLE FOR THE WILLFUL OR NEGLIGENT ACTIONS OF OTHER PARTIES THAT DO NOT FOLLOW THE BELOW GUIDELINES.

THESE GUIDELINES ARE:

- DO NOT STACK, SUPPORT, HANG EQUIPMENT, OR HANG FLEXIBLE WIRE/CABLE, ESPECIALLY COMMUNICATIONS CABLE, OR ANY OTHER MATERIAL ON THE FIRE SPRINKLER.
 - DO NOT EXPOSE CPVC PRODUCTS TO INCOMPATIBLE SUBSTANCES, SUCH AS CUTTING OILS, NON-WATER-BASED PAINTS, PACKING OILS, TRADITIONAL PIPE THREAD PASTE AND DOPE, FUNGICIDES, TERMITICIDES, INSECTICIDES, DETERGENTS, BULKING CAULKING, ADHESIVE TAPE, SOLDER FLUX, FLEXIBLE WIRE/CABLE WITH SPECIAL CONSIDERATION FOR COMMUNICATIONS CABLES, AND NON-APPROVED SPRAY FOAM INSULATION MATERIALS.
 - DO NOT EXPOSE CPVC PRODUCTS TO EDIBLE OILS, SOLVENTS, OR GLYCOL-BASED ANTI-FREEZE FLUIDS.
 - DO NOT EXPOSE CPVC PRODUCTS TO OPEN FLAME, SOLDER, AND SOLDERING FLUX.
 - DO NOT DROP, DISTORT, OR IMPACT CPVC PRODUCTS OR ALLOW OBJECTS TO BE DROPPED ON THEM.
 - DO NOT HANDLE CPVC PRODUCTS WITH GLOVES CONTAMINATED WITH OILS (HYDROCARBONS) OR OTHER INCOMPATIBLE MATERIALS.
 - DO NOT INJECT SYSTEM WITH M.I.C. INHIBITORS UNLESS THEY ARE LISTED IN COMBINATION WITH THIS SYSTEM.
- FAILURE TO FOLLOW THIS NOTICE MAY CAUSE CRACKS OR FRACTURES TO DEVELOP IN CPVC PRODUCTS RESULTING IN PROPERTY DAMAGE DUE TO LEAKS OR FLOODING. THE PRESENCE OF ANY VISIBLE CRACKS MAY REQUIRE PARTIAL OR FULL SYSTEM REPLACEMENT.

FREEZE PROTECTION

THIS SYSTEM IS A WET SYSTEM. PRECAUTION MUST BE TAKEN TO PROTECT THE PIPING FROM EXTREME FREEZING TEMPERATURES. IT IS THE RESPONSIBILITY OF THE OWNER AND INSULATION INSTALLER TO ENSURE SUFFICIENT INSULATION IS PROVIDED AND INSTALLED CORRECTLY TO MAINTAIN ALL PIPING AT 40 DEG MINIMUM IN ALL AREAS. THE METHOD TO ACHIEVE THIS CONTROL OF TEMPERATURE SHALL BE IN ACCORDANCE WITH NFPA 13R. DESIGNER AND ENGINEER OF RECORD WILL NOT BE RESPONSIBLE FOR ANY FREEZING PIPE OR DAMAGE CAUSED BY FREEZING PIPING.

PROJECT		EAST TOWN CROSSING BUILDING A	
BY		2902 E PIONEER	
ADDRESS		PUYALLUP, WA 98372	
CITY		FIRE SPRINKLER LEVELS 1 & 2 DRAWING	
TITLE		A Fire Protection Corporation 2709 JAHN AVE NW, SUITE 102 Gig Harbor, WA 98351-7353 EST. 1989 Fax: 253.853.5890	
DATE		8/20/2025	
DRAWN		AJP	
PAGE		3 of 4	

REVISIONS	
DISCREPANCY	
DATE	

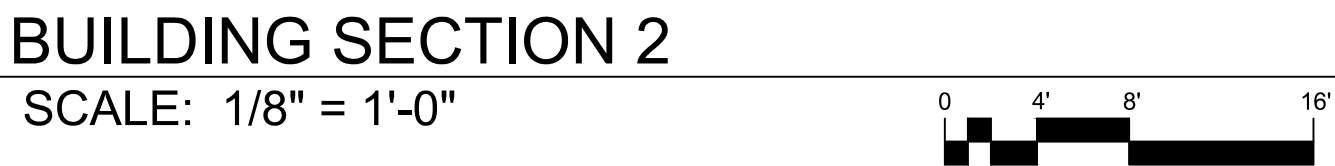
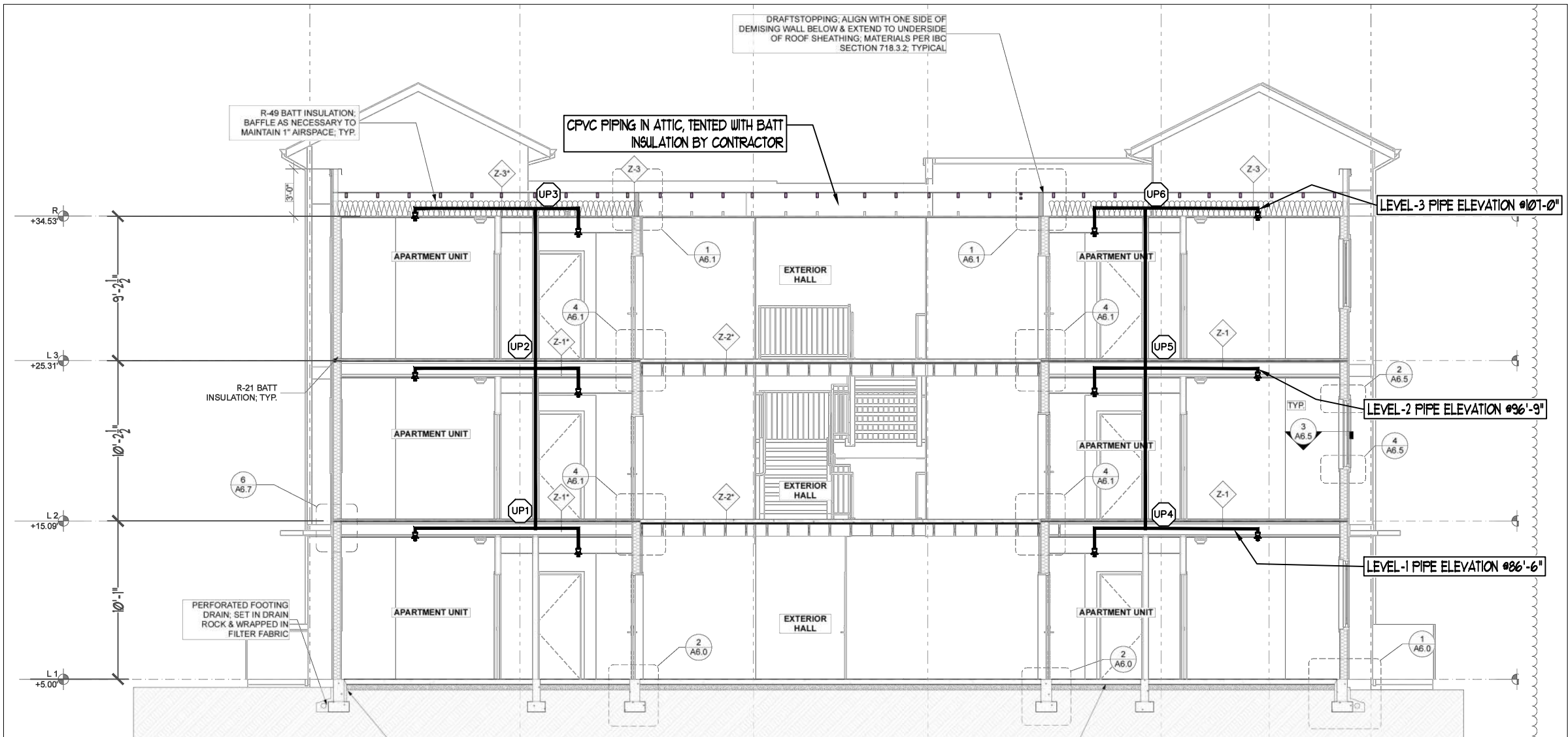
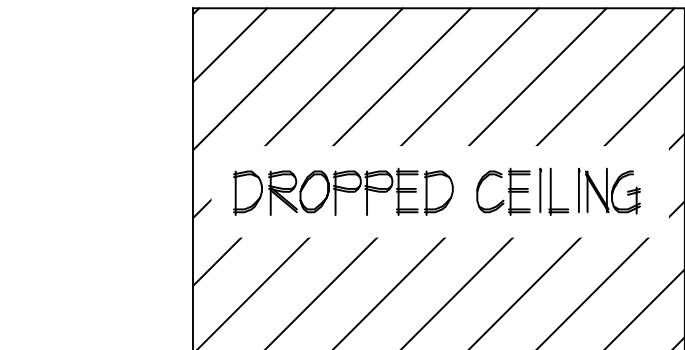
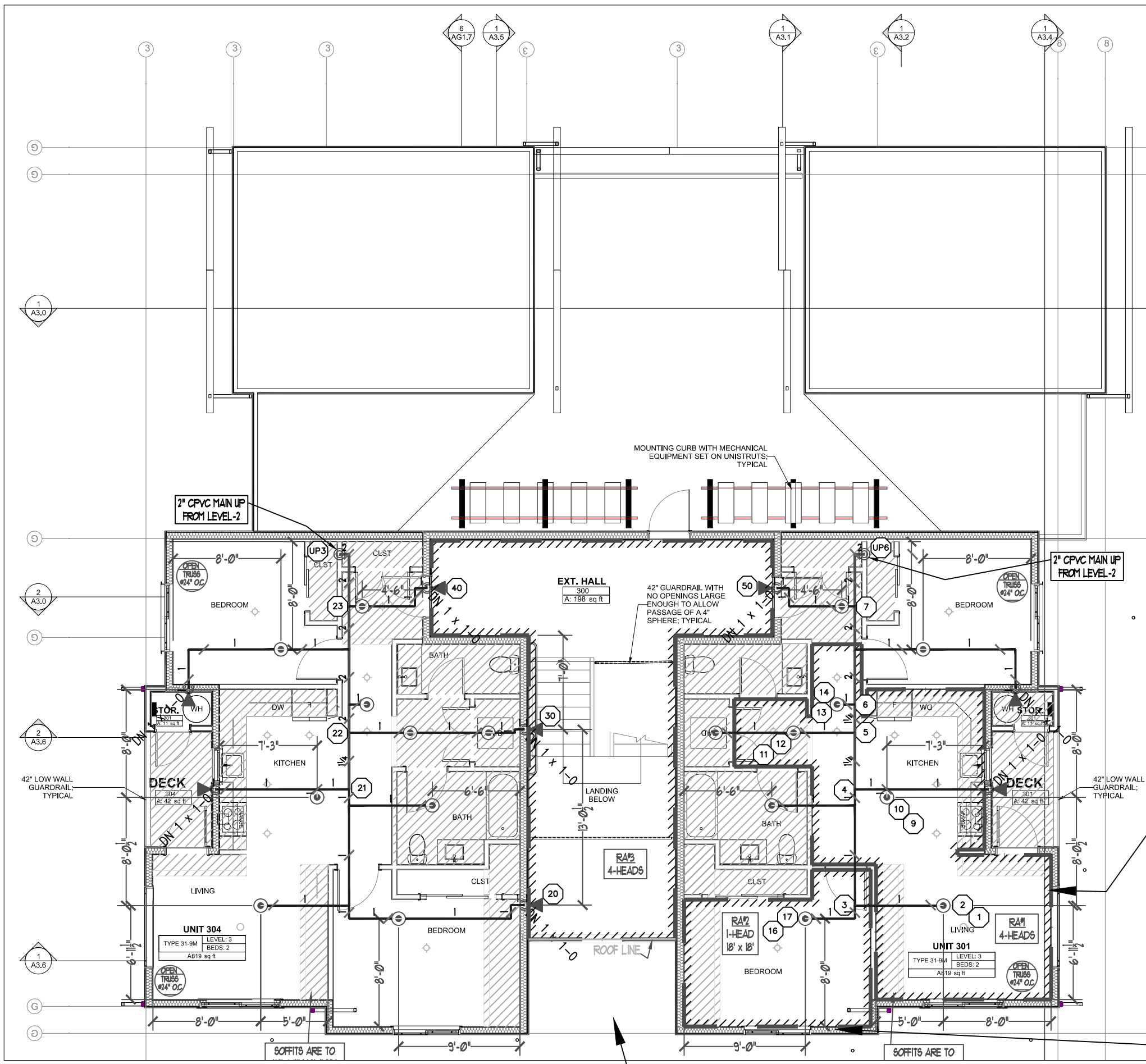
GENERAL		MKM LEGACY LLC	
ADDRESS		7809 PACIFIC AVE	
CITY		TACOMA, WA 98408	
SUPER		ADAM RAYGOR	
JOB PHONE		253-961-9976	
FIELD INSPECTIONS		CITY OF PUYALLUP	
NAME		(253) 864-4165	
PHONE			

STANDARD SYMBOLS	
Pipe Coupling	⊕
Pipe Drop	⊖
Pipe Rise	⊕
Pipe End Cap	⊕
2-WAY EARTHQUAKE BRACE	⊕
4-WAY EARTHQUAKE BRACE	⊕
PIPE HANGER	⊕
Hydraulic Reference Points	⊕
Elev. Below Top of Steel	⊕
Elev. Above Finished Floor	⊕
CEILING HEIGHT	⊕

WA. STATE LEVEL 3 STAMP	
WASHINGTON STATE CEC 31, 26 Joseph G. Faulkner 9491-0899-CEG Level 3 Sprinkler Fire Protection, Inc. SPRINFP011LS Signature: <i>Joseph G. Faulkner</i> Date: <i>08/20/2025</i>	
Project No. 24-093CM	
Sheet Title: BLDG-A LEVELS 1 & 2	
Sheet Number:	

FP-2.0

File Name: ETC Building A.dwg



Hydraulically Calculated System	
This system as shown on SPRINX FIRE PROTECTION	
company print no	FP-3.0 dated 8/20/2025
for	REMOTE AREA 01 - LEVEL-3 UNIT 301
at	ETC APTS. BUILDING-A contract no. 24-093CM
is designed to discharge at a rate of	.05 GPM
(L/min) per sq ft (m2) of floor area over a maximum area of	16' x 16' MAX SPACING sq ft (m2) when supplied
with water at the rate of	53.895 GPM (L/min)
at	24.465 psi (bars) at the base of the riser
Hose stream allowance of	0 GPM (L/min)
is included in the above,	
Occupancy Classification	NFPA-13R (2019)
Commodity Classification	N/A
Maximum Storage Height	N/A
Installed By:	SPRINX FIRE PROTECTION, INC.

Hydraulic Calculation Data	
Design Area Number: RA#1	
Design Area Location: LEVEL-3 UNIT 301	
Hazard/Occupancy: RESIDENTIAL NFPA 13R	
Design Density: 0.05	
Design Area: 256	
Number of Sprinklers in Design Area: 4	
System Flow: 53.895 @ TEST	
System Pressure: 32.080 SAFETY FACTOR = 7.89 PSI @ 19.7%	
Hose Allowance (Included): 0	

Hydraulically Calculated System	
This system as shown on SPRINX FIRE PROTECTION	
company print no	FP-3.0 dated 8/20/2025
for	REMOTE AREA 03 - LEVEL-3 SOUTH STAIRWELL
at	ETC APTS. BUILDING-A contract no. 24-093CM
is designed to discharge at a rate of	.10 GPM
(L/min) per sq ft (m2) of floor area over a maximum area of	4 HEAD SIDEWALL CALC sq ft (m2) when supplied
with water at the rate of	62.990 GPM (L/min)
at	25.966 psi (bars) at the base of the riser
Hose stream allowance of	0 GPM (L/min)
is included in the above,	
Occupancy Classification	NFPA-13R (2019)
Commodity Classification	N/A
Maximum Storage Height	N/A
Installed By:	SPRINX FIRE PROTECTION, INC.

Hydraulic Calculation Data	
Design Area Number: RA#2	
Design Area Location: LEVEL-3 UNIT 301 BEDROOM	
Hazard/Occupancy: RESIDENTIAL NFPA 13R	
Design Density: 0.05	
Design Area: 324	
Number of Sprinklers in Design Area: 1	
System Flow: 17.00 @ TEST	
System Pressure: 33.765 SAFETY FACTOR = 6.23 PSI @ 15.6%	
Hose Allowance (Included): 0	

Hydraulic Calculation Data	
Design Area Number: RA#2	
Design Area Location: LEVEL-3 UNIT 301 BEDROOM	
Hazard/Occupancy: RESIDENTIAL NFPA 13R	
Design Density: 0.05	
Design Area: 324	
Number of Sprinklers in Design Area: 1	
System Flow: 17.00 @ TEST	
System Pressure: 33.765 SAFETY FACTOR = 6.23 PSI @ 15.6%	
Hose Allowance (Included): 0	

Hydraulically Calculated System	
This system as shown on SPRINX FIRE PROTECTION	
company print no	FP-3.0 dated 8/20/2025
for	REMOTE AREA 02 - LEVEL-3 UNIT 301 BEDROOM
at	ETC APTS. BUILDING-A contract no. 24-093CM
is designed to discharge at a rate of	.05 GPM
(L/min) per sq ft (m2) of floor area over a maximum area of	18' x 18' MAX SPACING sq ft (m2) when supplied
with water at the rate of	17.00 GPM (L/min)
at	25.689 psi (bars) at the base of the riser
Hose stream allowance of	0 GPM (L/min)
is included in the above,	
Occupancy Classification	NFPA-13R (2019)
Commodity Classification	N/A
Maximum Storage Height	N/A
Installed By:	SPRINX FIRE PROTECTION, INC.

Hydraulic Calculation Data	
Design Area Number: RA#2	
Design Area Location: LEVEL-3 UNIT 301 BEDROOM	
Hazard/Occupancy: RESIDENTIAL NFPA 13R	
Design Density: 0.05	
Design Area: 324	
Number of Sprinklers in Design Area: 1	
System Flow: 17.00 @ TEST	
System Pressure: 33.765 SAFETY FACTOR = 6.23 PSI @ 15.6%	
Hose Allowance (Included): 0	

MINIMUM DISTANCES FROM HEAT SOURCES		
SIDE OF OPEN OR RECESSED FIREPLACE	36"	12"
FRONT OF RECESSED FIREPLACE	60"	36"
COAL-OR WOOD-BURNING STOVE	42"	12"
KITCHEN RANGE	18"	9"
WALL OVEN	18"	9"
HOT AIR FLUES	18"	9"
UNINSULATED HEAT DUCTS	18"	9"
UNINSULATED HOT WATER PIPES	12"	6"
SIDE OF CEILING OR WALL MOUNTED HOT AIR DIFFUSERS	24"	12"
FRONT OF WALL-MOUNTED HOT AIR DIFFUSERS	36"	18"
HOT WATER HEATER OR FURNACE	6"	3"
LIGHT FIXTURE		
0W - 250W	6"	3"
250W - 499W	12"	6"

SPRINKLER HEAD DISTANCES FROM HEAT SOURCE		
TABLE 7.5.6.3, NFPA 13R (2019 EDITION)		
NOTE: SPRINKLER HEADS TO MAINTAIN A MINIMUM DISTANCE OF 3'-0" FROM FIREPLACES.	NOTE: SPRINKLER HEADS TO MAINTAIN A MINIMUM DISTANCE OF 3'-0" FROM CEILING LIGHTS, CEILING FANS OR SIMILAR OBSTRUCTIONS.	NOTE: SPRINKLER HEADS TO MAINTAIN A MINIMUM DISTANCE OF 8" FROM THE FACE OF HEAT SOURCE.

RESIDENTIAL PENDENT SPRINKLER OBSTRUCTION	
DISTANCE FROM SPRINKLERS TO SIDE OF OBSTRUCTION	MAXIMUM ALLOWABLE DISTANCE OF DEFLECTOR ABOVE BOTTOM OF OBSTRUCTION
LESS THAN 1 FOOT	0
1 FT TO LESS THAN 1 FT 6 IN.	0
1 FT 6 IN. TO LESS THAN 2 FT 6 IN.	1
2 FT 6 IN. TO LESS THAN 3 FT 6 IN.	1
3 FT 6 IN. TO LESS THAN 4 FT 6 IN.	3
4 FT 6 IN. TO LESS THAN 5 FT 6 IN.	3
5 FT 6 IN. TO LESS THAN 6 FT 6 IN.	7
6 FT 6 IN. TO LESS THAN 7 FT 6 IN.	7
7 FT 6 IN. TO LESS THAN 8 FT 6 IN.	11
8 FT 6 IN. TO LESS THAN 9 FT 6 IN.	14

Note-Minimum Cure Prior To Pressure Testing (200 PSIG)	
Pipe Size	Ambient Temperature During Cure Period
3/4"	60 TO 120 Deg. F 40 TO 59 Deg. F 0 TO 39 Deg. F
1"	45 MINUTES 1 1/2 HOURS 24 HOURS
1 1/4" & 1 1/2"	45 MINUTES 1 1/2 HOURS 24 HOURS
2"	1 1/2 HOURS 16 HOURS 120 HOURS
2 1/2" & 3"	6 HOURS 36 HOURS *
	8 HOURS 72 HOURS *

* Solvent Cement can be applied at a temperature below 40 deg. F for 2" and larger, however the temperature of the system must be raised to 40 deg. F or higher and allowed to cure per the above recommendations prior to pressure testing. When drying cement, pipe or fittings in from the outside, in certain they are brought up to room temperature before using the 60 to 120 deg. F cure schedule.

CPVC CURING

SCOPE OF WORK	
INSTALL AUTOMATIC WET FIRE SPRINKLER SYSTEM FOR MULTI FAMILY DWELLING IN ACCORDANCE WITH NFPA 13R 2019 EDITION AND LOCAL AUTHORITY.	
GENERAL NOTES	
1. ALL PIPING AND SPRINKLERS SHALL BE U.L. LISTED AND/OR F.M. APPROVED, AND SHALL BE NEW AND FREE OF DEFECTS. 2. HANGER TYPES AND SPACING SHALL BE INSTALLED PER NFPA 13R AND MANUFACTURER'S LISTING. 3. SPRINKLER LOCATIONS AND SPACING PER NFPA 13R AND MANUFACTURERS LISTING. 4. ANY AND ALL ALARM SYSTEM WIRING AND INSTALLATION IS BY OTHERS. 5. ALL DRILLING AND BORING OF HOLES SHALL BE DONE IN STRICT ACCORDANCE WITH THE STRUCTURAL ENGINEER'S REQUIREMENTS. DO NOT UNDER ANY CIRCUMSTANCES CUT OR MODIFY PRE-MANUFACTURED TRUSSES. 6. INSTALLER SHALL VERIFY FINISH CEILING ELEVATION, OBSTRUCTIONS, LIGHT FIXTURES, CABINETS, ETC PRIOR TO INSTALLATION OF SPRINKLER HEADS. 7. ALL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES SHALL BE FIRE STOPPED. FIRE STOPPING MATERIAL SHALL BE INSTALLED PER MANUFACTURERS INSTRUCTION BY OTHERS. 8. SPRINKLER PIPE SIZING HAS BEEN ESTABLISHED BY HYDRAULIC CALCULATIONS. 9. IT IS THE OWNERS RESPONSIBILITY TO PROVIDE A RELIABLE WATER SUPPLY THAT IS CAPABLE OF MEETING THE MOST DEMANDING AREA.	
PROJECT DETAILS	
NFPA CODE: 13R 2019 SYSTEM TYPE: WET SYSTEM PIPE TYPE: BLAZEMASTER CPVC MAX SPRINKLER SPACING REQUIREMENTS: 16'x16" @13 GPM, 18'x18" @17 GPM (1 HEAD RM.) MINIMUM SPRINKLER SPACING: 8' BETWEEN SPRINKLERS MINIMUM DESIGN DENSITY: 0.05 GPM/SQ.FT.	
NFPA & AHJ REQUIREMENTS	
1. THE DESIGNER/OWNER SHALL BE ALL OF THE SPRINKLERS WITHIN A SINGLE COMPARTMENT, UP TO A MAXIMUM OF FOUR SPRINKLERS, THAT REQUIRE THE GREATEST HYDRAULIC DEMAND. 2. SPRINKLERS SHALL NOT BE REQUIRED IN BATHROOMS OF 55 SQ. FT. AND LESS. 3. SPRINKLERS SHALL NOT BE REQUIRED IN CLOTHES CLOSETS, LINEN CLOSETS, AND PANTRIES THAT DO NOT EXCEED 24 SQ. FT. AND HAVE WALLS AND CEILINGS SURFACED WITH NONCOMBUSTIBLE OR LIMITED COMBUSTIBLE MATERIALS. 4. SPRINKLERS SHALL NOT BE REQUIRED IN ATTICS OR CRAWL SPACES. 5. SPRINKLER HEADS SHALL BE AT LEAST 3 FT. AWAY FROM CEILING FANS AND SURFACE MOUNTED LIGHT FIXTURES. 6. ALL SPRINKLERS SHALL MAINTAIN THE MINIMUM REQUIRED DISTANCES FROM HEAT SOURCES IN ACCORDANCE WITH NFPA 13R. 7. SPRINKLER HEADS UNDER SLOPE CEILINGS TO BE MEASURED ALONG THE SLOPE.	
CPVC FIRE SPRINKLER PIPE GUIDELINES	
INSTALLING CONTRACTOR TO PROVIDE AN INSTALLATION THAT IS IN 100% COMPLIANCE WITH THESE GUIDELINES. RESIDENTIAL DESIGN CANNOT BE RESPONSIBLE FOR THE WILLFUL OR NEGLIGENT ACTIONS OF OTHER PARTIES THAT DO NOT FOLLOW THE BELOW GUIDELINES. THESE GUIDELINES ARE: • DO NOT STACK, SUPPORT, HANG EQUIPMENT, OR HANG FLEXIBLE WIRE/CABLE, ESPECIALLY COMMUNICATIONS CABLE, OR OTHER MATERIAL ON THE FIRE SPRINKLER • DO NOT EXPOSE CPVC PRODUCTS TO INCOMPATIBLE SUBSTANCES, SUCH AS CUTTING OILS, NON-WATER-BASED PAINTS, PACKING OILS, TRADITIONAL PIPE THREAD PASTE AND JOINT, FUNGICIDES, INSECTICIDES, DETERGENTS, BULKING CAULKING, ADHESIVE TAPE, SOLDER FLUX, FLEXIBLE WIRE/CABLE (WITH SPECIAL CONSIDERATION FOR COMMUNICATIONS CABLE), AND NON-APPROVED SPRAY FOAM INSULATION MATERIALS • DO NOT EXPOSE CPVC PRODUCTS TO EDIBLE OILS, SOLVENTS, OR GLYCOL-BASED ANTI-FREEZE FLUIDS. • DO NOT EXPOSE CPVC PRODUCTS TO OPEN FLAME, SOLDER, AND SOLDERING FLUX. • DO NOT DROP, DISTORT, OR IMPACT CPVC PRODUCTS OR ALLOW OBJECTS TO BE DROPPED ON THEM. • DO NOT HANDLE CPVC PRODUCTS WITH GLOVES CONTAMINATED WITH OILS (HYDROCARBONS) OR OTHER INCOMPATIBLE MATERIALS. • DO NOT INJECT SYSTEM WITH M.I.C. INHIBITORS UNLESS THEY ARE LISTED IN COMBINATION WITH THIS SYSTEM. FAILURE TO FOLLOW THIS NOTICE MAY CAUSE CRACKS OR FRACTURES TO DEVELOP IN CPVC PRODUCTS RESULTING IN PROPERTY DAMAGE DUE TO LEAKS OR FLOODING. THE PRESENCE OF ANY VISIBLE CRACKS MAY REQUIRE PARTIAL OR FULL SYSTEM REPLACEMENT.	
FREEZE PROTECTION	
THIS SYSTEM IS A WET SYSTEM, PRECAUTION MUST BE TAKEN TO PROTECT THE PIPING FROM EXTREME FREEZING TEMPERATURES. IT IS THE RESPONSIBILITY OF THE OWNER AND INSULATION INSTALLER TO ENSURE SUFFICIENT INSULATION IS PROVIDED AND INSTALLED CORRECTLY TO MAINTAIN ALL PIPING AT 40 DEG MINIMUM IN ALL AREAS. THE METHOD TO ACHIEVE THIS CONTROL OF TEMPERATURE SHALL BE IN ACCORDANCE WITH NFPA 13R, DESIGNER AND ENGINEER OF RECORD WILL NOT BE RESPONSIBLE FOR ANY FREEZING PIPE OR DAMAGE CAUSED BY FREEZING PIPING.	

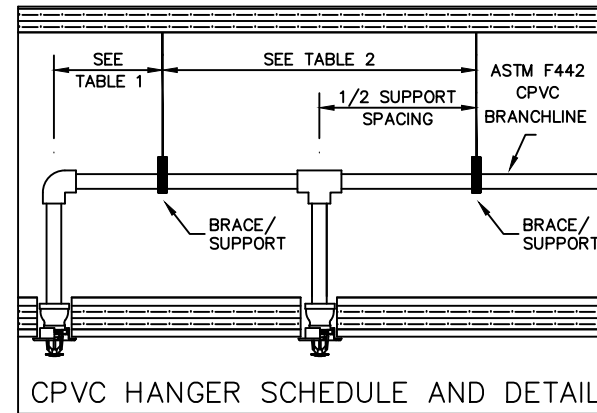
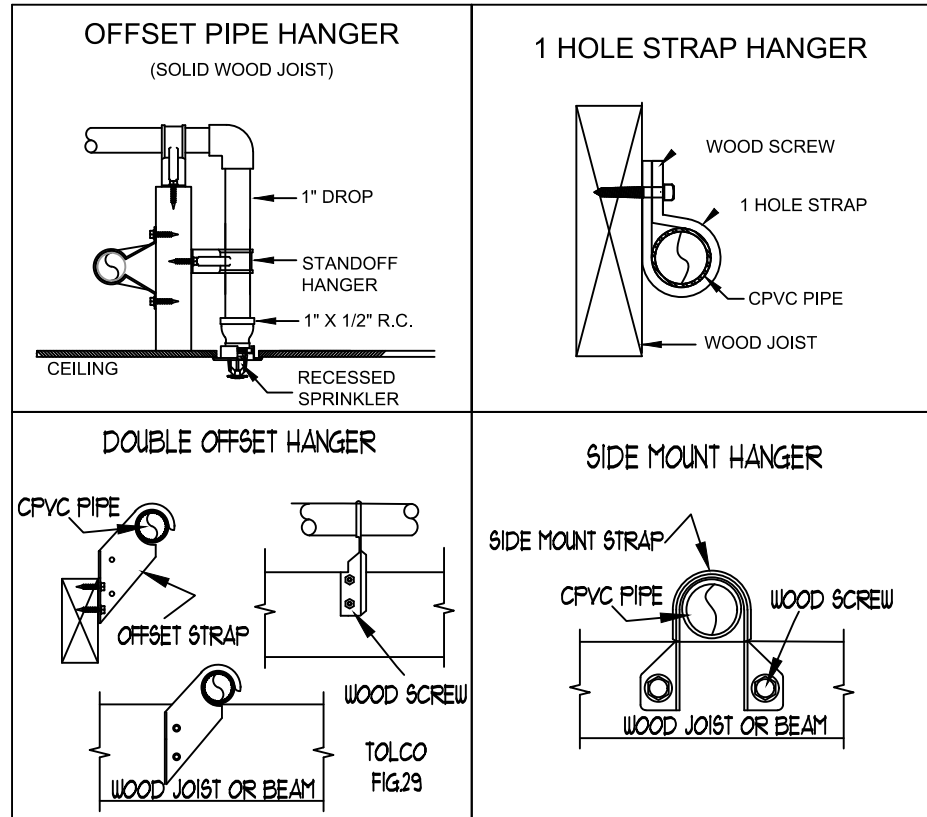
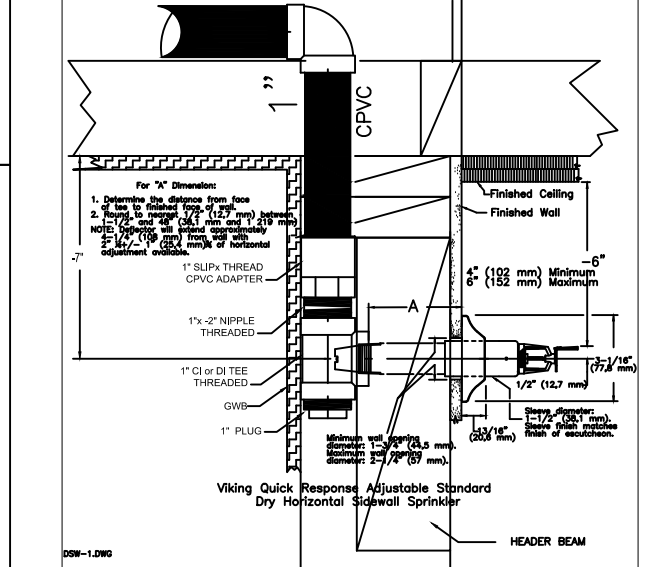


TABLE 1 MAXIMUM SUPPORT SPACING END LINE SPRINKLER HEAD DROP ELBOW	
PIPE SIZE Inches	SYSTEM PRESSURE
3/4"	< 100 psi 9" > 100 psi 6"
1"	12" 9"
1 1/4"	16" 12"
1 1/2" - 3"	24" 12"

TABLE 2 SDR 35 (ASTM F442) HANGER SPACING	
NOMINAL SIZE Inches	MAX SPACING feet
3/4"	35' (11')
1"	60' (18')
1 1/4"	65' (20')
1 1/2"	10' (3.0')
2"	80' (24')
2 1/2"	90' (27')
3"	100' (30')

* DO NOT STUB DOWN DOWNS ON LEVELS 1-4
SEE DECK DETAILS & BREEZEWAY DETAILS ON FP-20



SPRINKLER HEAD SCHEDULE						
SYMBOL	COUNT	THREAD	K-FACTOR	DESCRIPTION		NOTE
⊙	96	1/2"	4.9	HEAD1= VIKING VK468 WHITE RESIDENTIAL RECESSED PENDENT 175°F.		on Drop
◀	29	1"	5.6	SIDE1= VIKING VK178 GR CHROME DRY HORIZONTAL SIDEWALL 200°F.		
125 = TOTAL NUMBER OF HEADS BUILDING A						

PROJECT		EAST TOWN CROSSING BUILDING A		2902 E PIONEER		PUYALLUP, WA 98372		FIRE SPRINKLER LEVEL 3 DRAWING		Drawn: AJP		Date: 8/20/2025		Page: 4 of 4	
REVISIONS		BY		DATE		DESCRIPTION		DATE		DESCRIPTION		DATE		DESCRIPTION	
GENERAL		MKM LEGACY LLC		7809 PACIFIC AVE		TACOMA, WA 98408		ADAM RAYGOR		253-961-9976		CITY OF PUYALLUP		(253) 864-4165	
STANDARD SYMBOLS		Pipe Coupling		Pipe Drop		Pipe Rise		Pipe End Cap		2-WAY EARTHQUAKE BRACE		4-WAY EARTHQUAKE BRACE		PIPE HANGER	
WA. STATE LEVEL 3 STAMP		Expires 12/31/25		WASHINGTON STATE		CERTIFICATE OF COMPETENCY		FIRE SPRINKLER SYSTEMS		Joseph G. Faulkner		9491-0699-CEG Level 3		SPRINX FIRE PROTECTION, INC.	
BLDG-A LEVELS 3		Sheet Title:		24-093CM		Sheet Number:		FP-3.0		File Name: ETC Building A.dwg					