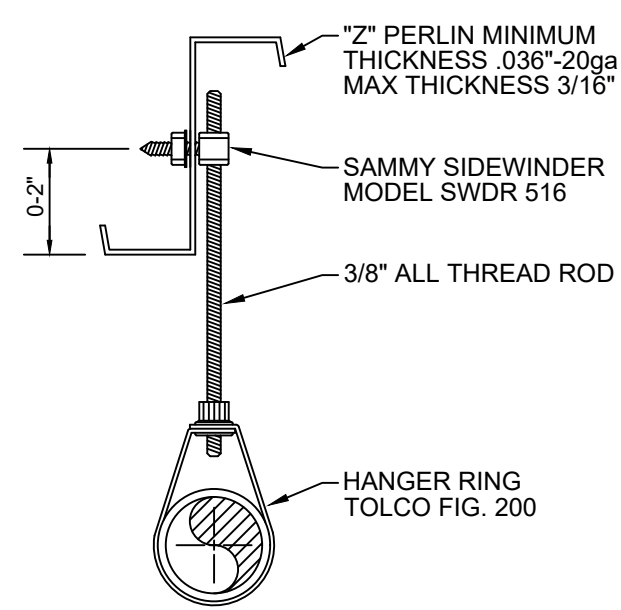
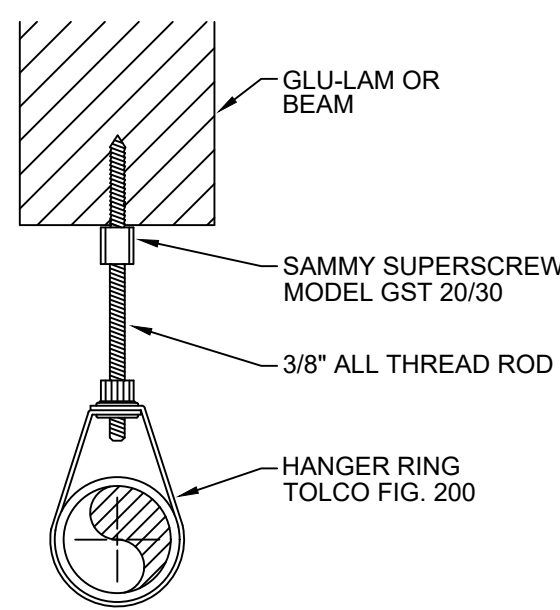
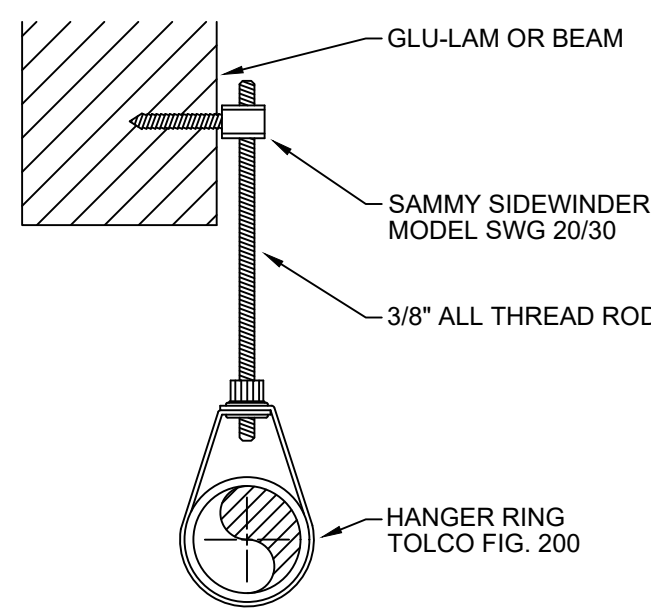




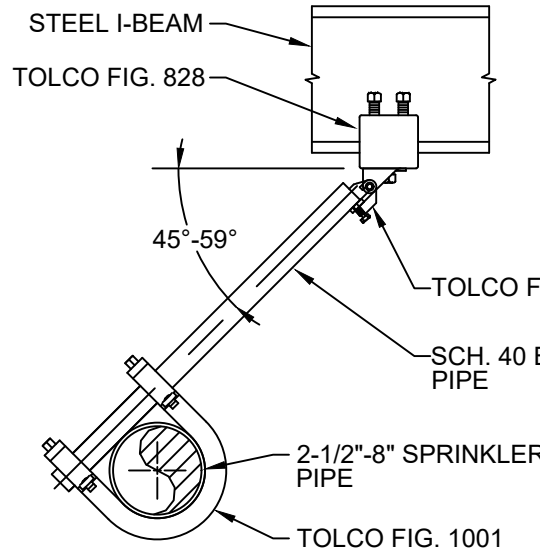
HANGER TYPE SW
NTS



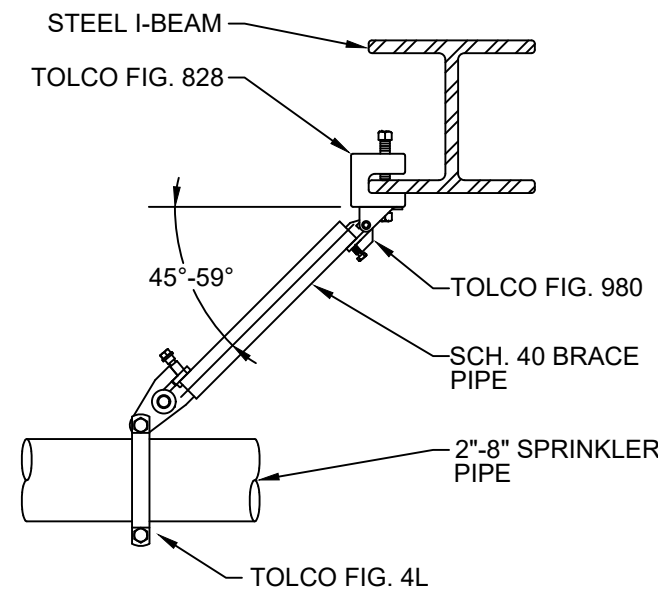
HANGER TYPE S
NTS



HANGER TYPE SW
NTS



LATERAL BRACE
NTS



LONGITUDINAL BRACE
NTS

HYDRAULIC DESIGN INFO.	
☒ THIS SYSTEM IS HYDRAULICALLY DESIGNED	☐ THIS SYSTEM IS NOT HYDRAULICALLY DESIGNED
- FLOW TEST -	
STATIC:	45 PSI
RESIDUAL:	30 PSI
GPM FLOWING:	1560
DATE & TIME:	01/25/2022
- SYSTEM DESIGN -	
REMOTE AREA:	AREA 1
DENSITY:	.10 GPM / SQ FT
MAX AREA/HEAD	168 SQ FT
K-FACTOR	5.6K

SCOPE OF WORK:

INSTALL NEW WET SYSTEM THROUGHOUT EXISTING BUILDING

GENERAL NOTES:

- ALL MATERIAL AND EQUIPMENT TO BE NEW AND UL AND/OR FM APPROVED.
- PIPING DIMENSIONS ARE CENTER TO CENTER LENGTH EXCEPT RISER DIMENSIONS AND MAINS, WHICH ARE END TO END.
- PIPE HANGER AND METHOD OF HANGING TO BE IN ACCORDANCE WITH NFPA #13 (2019).
- PIPING SHALL BE IN ACCORDANCE WITH NFPA #13 (2019).
- JOINING OF PIPE AND FITTINGS, THREADED AND WELDED, SHALL BE IN ACCORDANCE WITH NFPA #13 (2019).
- OWNER TO PROVIDE ADEQUATE HEAT TO PREVENT WATER IN PIPES FROM FREEZING IN AREAS PROTECTED BY A WET PIPE SPRINKLER SYSTEM.
- STRUCTURAL ADEQUACY OF THE BUILDING TO SUPPORT THE SPRINKLER PIPING IS THE RESPONSIBILITY OF THE OWNER AND/OR HIS STRUCTURAL REPRESENTATIVE.
- ALL FIRE ALARMS, WIRING AND MONITORING ARE TO BE INSTALLED BY OTHERS.

DESIGN NOTES:

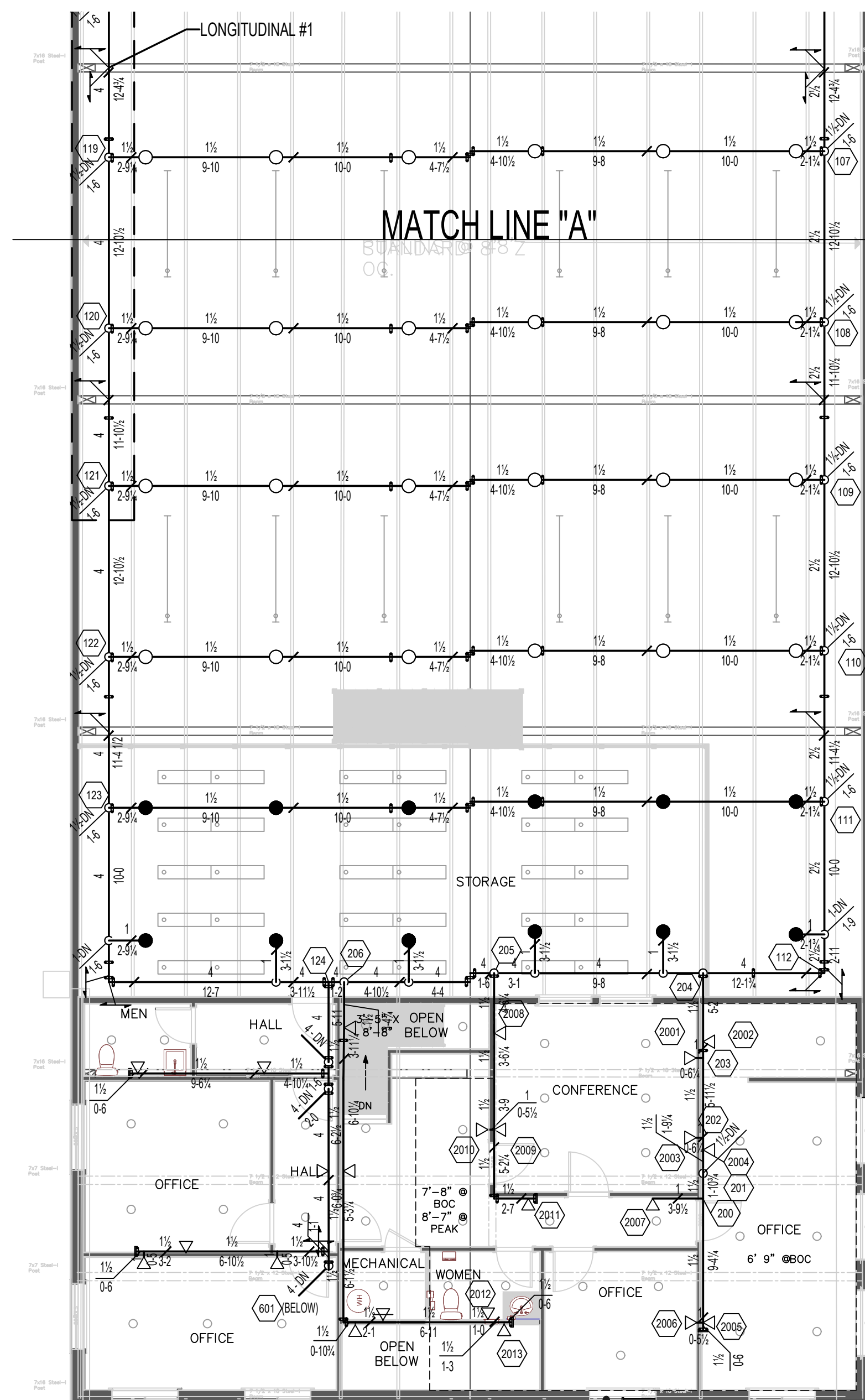
- DESIGN AND SPRINKLER SPACING TO BE PER NFPA #13.
- PLAN SUBMITTAL TO AND APPROVAL BY THE CITY OF PUYALLUP AND B.C.E..
- MATERIALS PER NFPA #13 STANDARDS AS SELECTED BY FSI.
- TESTING PER NFPA #13 AND THE CITY OF PUYALLUP.

FIELD NOTES:

- ALL NEW PIPE TO BE BLACK, SCHEDULE 40 WITH BLACK, DUCTILE IRON THREADED FITTINGS OR GROOVED SCHEDULE 10 WITH VICTAULIC FITTINGS UNLESS NOTED OTHERWISE.
- ARMOVERS SUPPLYING UPRIGHTS LONGER THAN 2'-0" SHALL HAVE A HANGER IF WATER PRESSURE IS LESS THAN 100PSI.
- TYPICAL HANGER TO BE A HILTI KWIK HUS-EZ (UNLESS NOTED OTHERWISE).
- MAX SQ FT PER SPRINKLER = 225 SQ FT (LIGHT HAZARD).
- MAX SQ FT PER SPRINKLER = 130 SQ FT (ORDINARY HAZARD).

WALL LEGEND:

- EXISTING WALL CONSTRUCTION
NEW WALL CONSTRUCTION



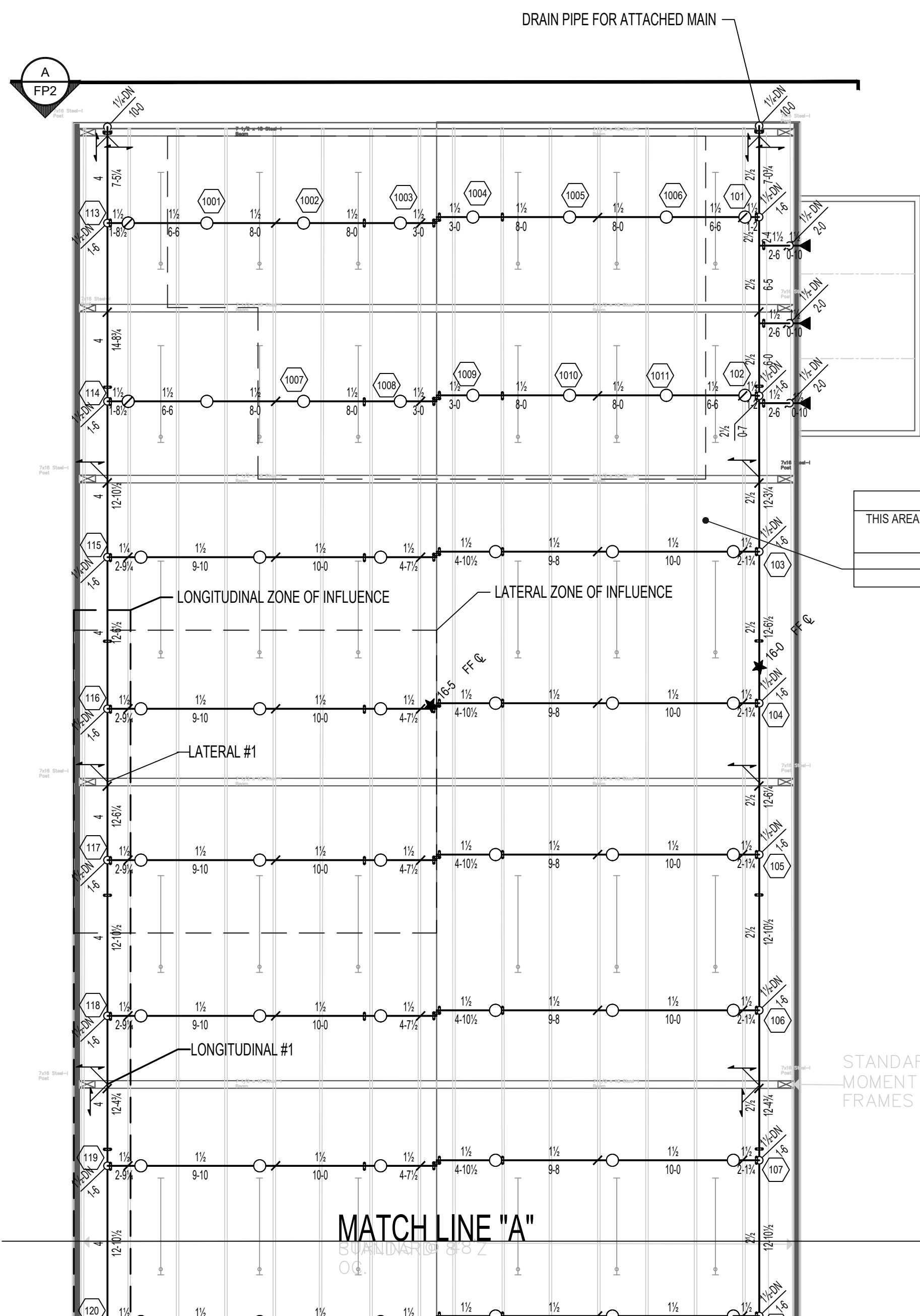
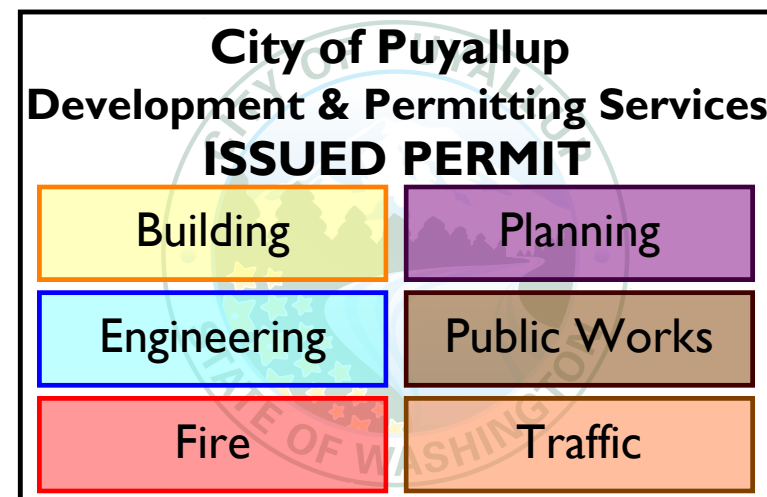
REFLECTED CEILING / PIPING PLAN
SCALE: 1/8" = 1'-0"
0' 1' 2' 4' 8'

STANDARD STEEL
MOMENT
FRAMES @ 25 FEET OC.

PER NFPA13(2019) 17.4.4.3:
FOR CROSS MAINS IN STEEL PIPE SYSTEMS IN
BAYS HAVING TWO BRANCH LINES, THE
INTERMEDIATE HANGER SHALL BE PERMITTED
TO BE OMITTED, PROVIDED THAT A HANGER
ATTACHED TO A PURLIN IS INSTALLED ON EACH
BRANCH LINE LOCATED AS NEAR TO THE
CROSS MAIN AS THE LOCATION OF THE PURLIN
PERMITS.

PER NFPA13(2019) 18.5.5.10.1:
LATERAL SWAY BRACING SHALL BE PERMITTED TO BE
OMITTED WHEN THE FOLLOWING CRITERIA HAS BEEN
MET:
1) THE BRANCH LINES SHALL BE INDIVIDUALLY
SUPPORTED WITHIN 6IN. OF THE STRUCTURE,
MEASURED BETWEEN THE TOP OF THE PIPE
AND THE OF ATTACHMENT TO THE BUILDING
STRUCTURE
2) AT LEAST 75 PERCENT OF THE ALL THE
HANGERS ON THE BRANCH LINE SHALL MEET
THE REQUIREMENTS OF 18.5.5.10.1(1)
3) CONSECUTIVE HANGERS ON THE BRANCH LINE
SHALL NOT BE PERMITTED TO EXCEED THE
LIMITATION IN 18.5.5.10.1(1)

REMOTE AREA #2
THIS AREA HAS BEEN HYDRAULICALLY CALCULATED
TO DELIVER A DENSITY OF:
.1 GPM/SF OVER 923.4 SQ FT
SYSTEM DEMAND @ BOR:
228.1 GPM @ 34.0 PSI



REFLECTED CEILING / PIPING PLAN
SCALE: 1/8" = 1'-0"
0' 1' 2' 4' 8'

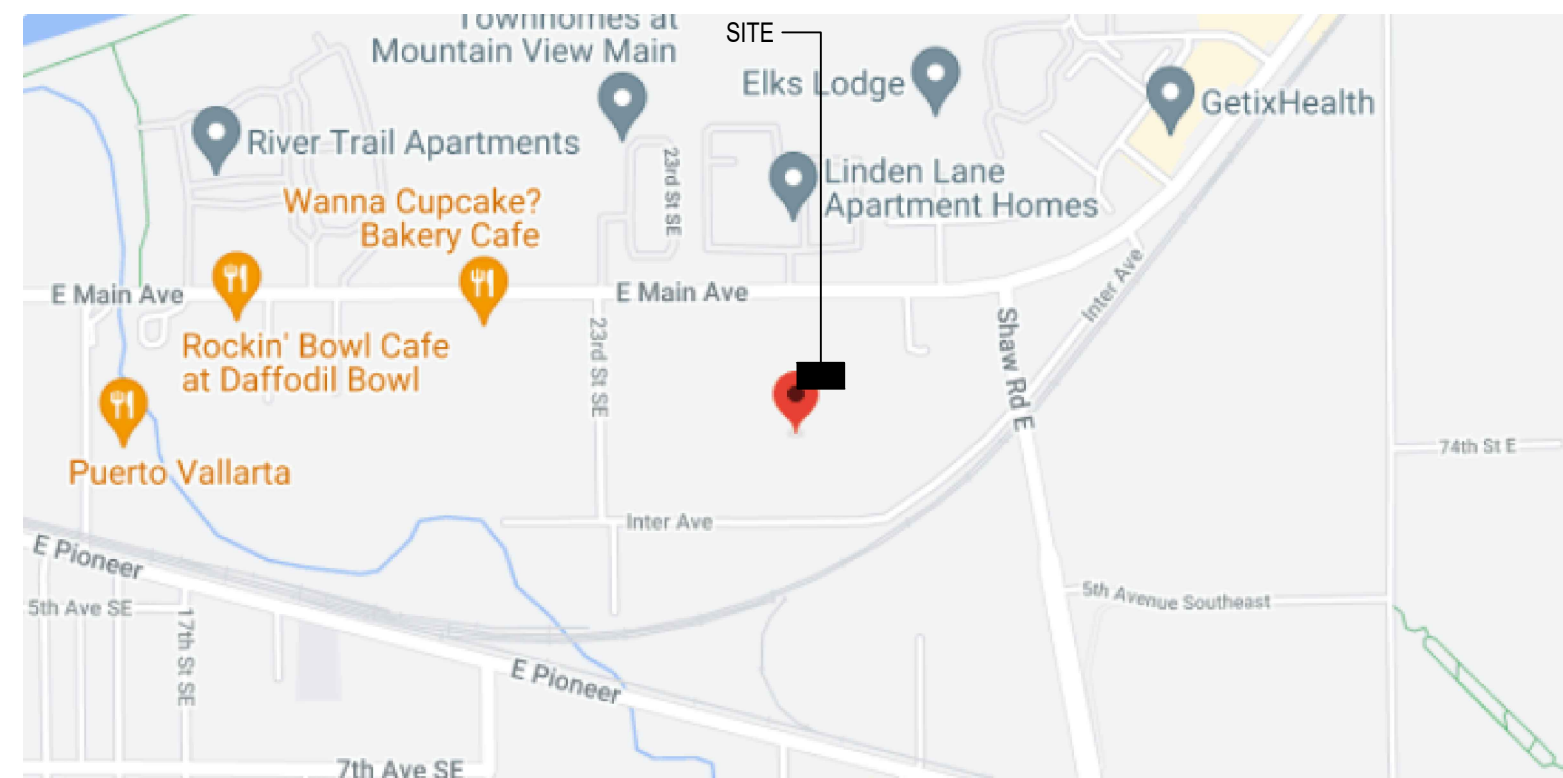
City of Puyallup
Fire
REVIEWED
FOR
COMPLIANCE
DDrake
03/02/2022
11:35:28 AM



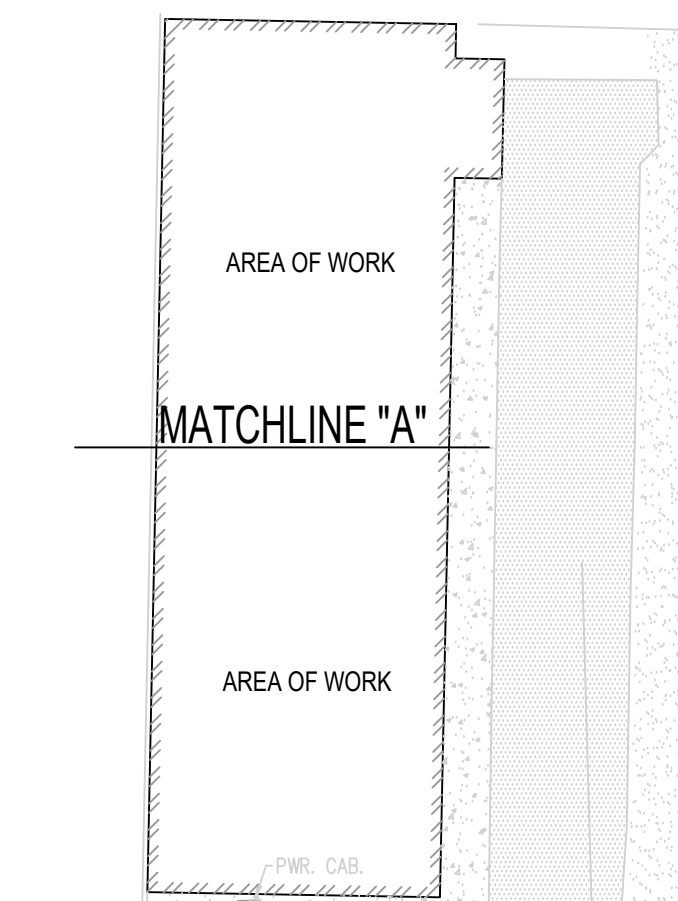
AREA OF WORK



SITE PLAN
SCALE: NTS



VICINITY MAP
SCALE: NTS



KEY PLAN
SCALE: NTS

FSI
Fire Sprinklers Inc.
WA CL# FIRESI#0988RJ
1524 45th St E - Suite 102
Sumner, WA 98390
(253) 826-0099
www.firesprinklersinc.com

DRAWN BY: HFB
REVIEWED BY: CCS
DATE: 02/10/2022
SCALE: AS NOTED
AHJ: CITY OF PUYALLUP

REVISIONS: DESCRIPTION

REV # DATE BY

STAMP: WASHINGTON STATE
CERTIFICATE OF COMPETENCY
FIRE PROTECTION SPRINKLER SYSTEMS
Christopher Cameron Smith
0087-0818-C Level 3
Fire Sprinklers Incorporated
FIRESI#988RJ
Signature
Expires 12/31/22

SYMBOL	MFG	S.N.	RESPONSE	TYPE	K-FAC	TEMP	ORIFICE	FINISH	CANOPY	QTY
○	VIKING	VK305	QUICK	UPRIGHT	80	135°	3/4"	BRASS	CHROME	64
○	VIKING	VK305	QUICK	UPRIGHT	56	175°	1/2"	WHITE	WHITE	1
○	VIKING	VK305	QUICK	UPRIGHT	56	175°	1/2"	WHITE	WHITE	1
○	VIKING	VK305	QUICK	UPRIGHT	56	175°	1/2"	WHITE	WHITE	40
○	VIKING	VK305	QUICK	UPRIGHT	56	175°	1/2"	WHITE	WHITE	3
○	VIKING	VK305	QUICK	UPRIGHT	56	175°	1/2"	WHITE	WHITE	24

4632 - PRO-VAC
2511 INTER AVE
PUYALLUP, WA 98372

CONTRACT WITH PRO-VAC, LLC 2412 INTER AVE PUYALLUP, WA 98372 IVAN LISANETS 253.314.1826	
DRAWING SYMBOLS	
HANGER LEGEND	
P	HILTI KWIK HUS-EZ
SX	SAMMY X-PRESS
D	TOP BEAM CLAMP W/ RETAINER STRAP
S	SAMMY SUPER SCREW (GST20)
SW	SAMMY SIDEWINDER (SWG20)
JOB NUMBER:	4632
SHEET NUMBER:	FP1 OF 2

