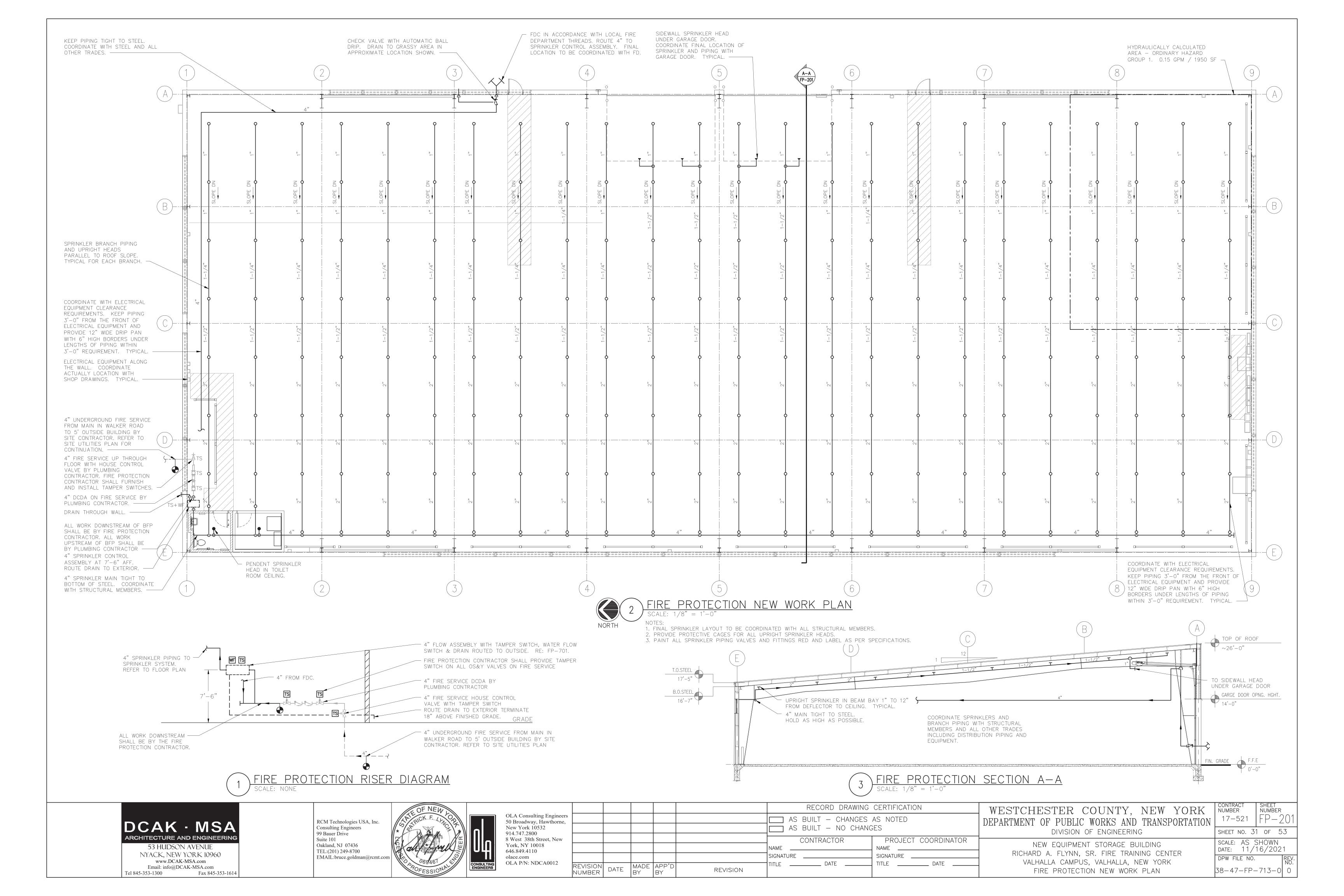
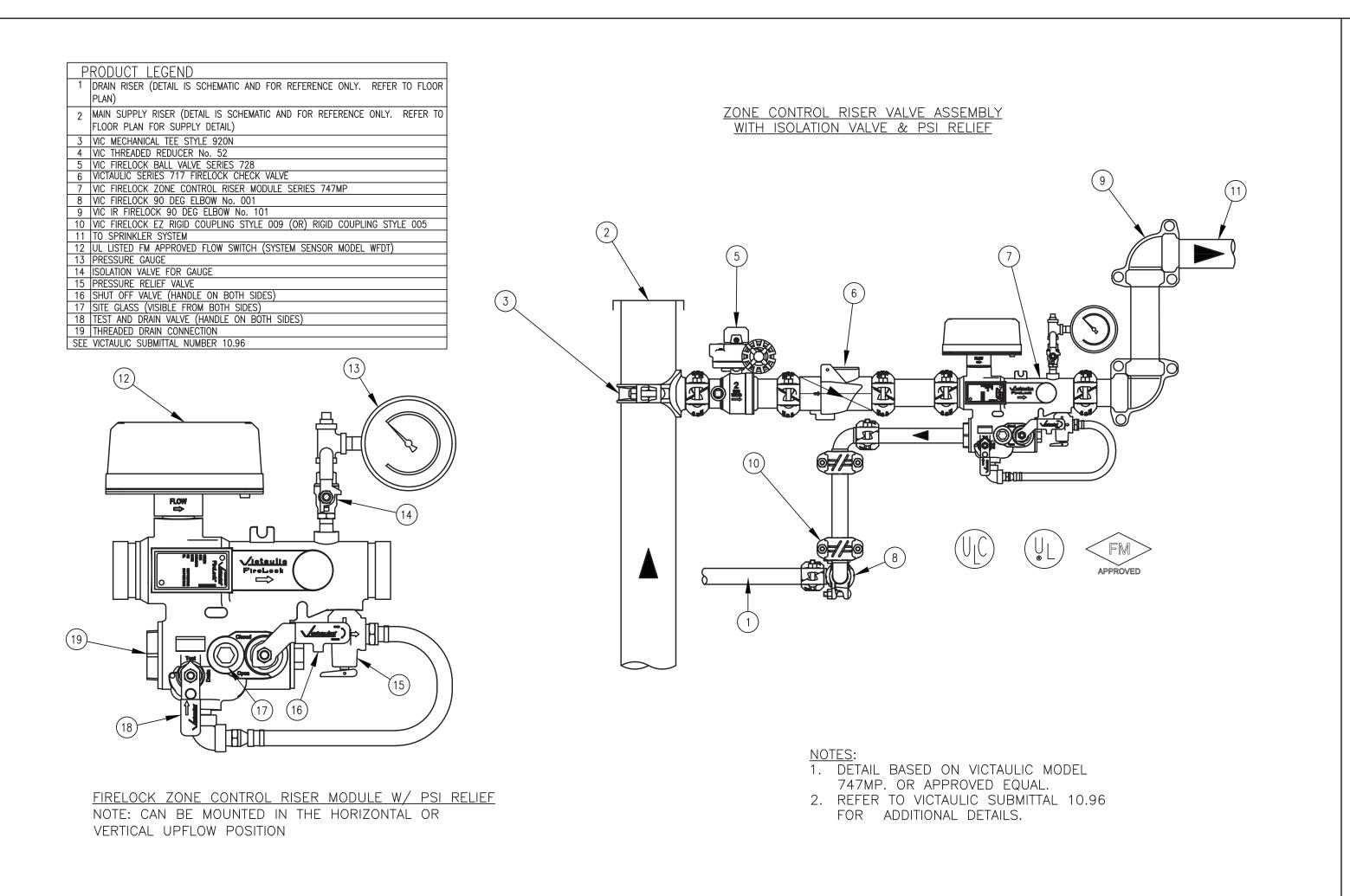
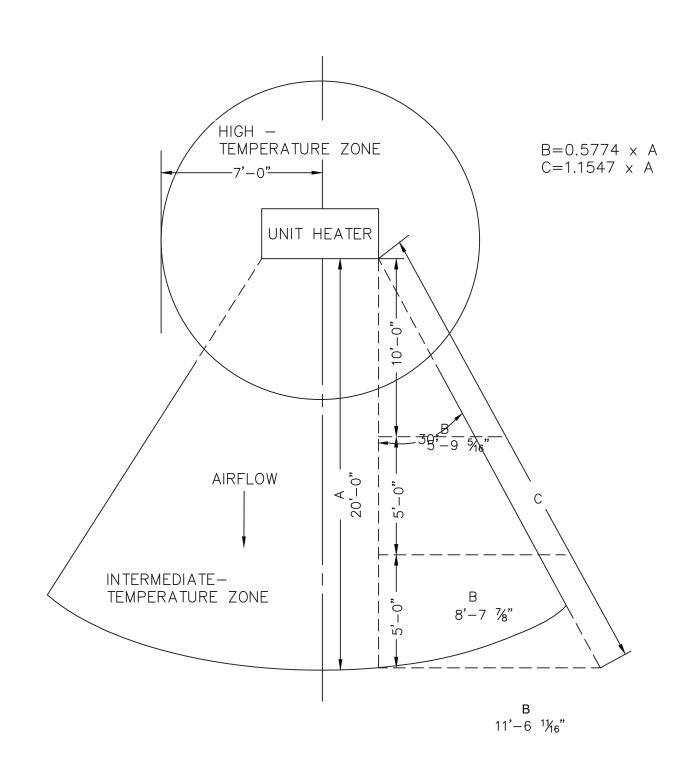
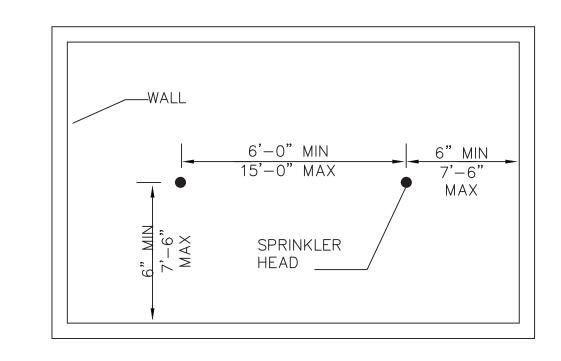
HYDRANT FLOW TEST	SYMBOLS AND ABBREVIATIONS		SYMBOLS A	SYMBOLS AND ABBREVIATIONS		
A. PRIOR TO FILING FIRE PROTECTION DRAWINGS, THE CONTRACTOR SHALL ARRANGE FOR A	SYMBOL ABBREVIATI	ION DESCRIPTION	SYMBOL	ABBREVIATION DESCRIPTION		
NEW/CURRENT FLOW TEST IN THE VICINITY OF THE BUILDING.	EX.	EXISTING TO REMAIN		TS TAMPER SWITCH		
WATER SUPPLY DATA	NEW	NEW WORK		TYP TYPICAL		
DATE: 7-30-2021	DEM.	EXISTING TO BE REMOVED	NOTE: FOR REFERENCE (U.O.N. UNLESS OTHERWISE NOTED ONLY. NOT ALL SYMBOLS OR ABBREVIATIONS ARE USED IN THIS PROJECT.		
PERFORMED BY: WESTCHESTER COUNTY STATIC PRESSURE AT RESIDUAL FIRE 118 PSI	<u> </u>	ELBOW UP ELBOW DOWN				
DESIDUAL DESSURE AT DESIDUAL		TEE DOWN	GENERAL N	IOTES		
FIRE HYDRANT: MEASURED FLOW AT FLOW FIRE 780 GPM		TEE UP	1. THE REVISED	SPRINKLER SYSTEM SHALL BE DESIGNED AND INSTALLED BY AN		
HYDRANT: NOTES:		PIPE CAP OR FLUSHING CONNECTION	THE REQUIREME	IRE PROTECTION CONTRACTOR IN STRICT ACCORDANCE WITH NFPA—13, NTS OF THE LANDLORD, LANDLORD'S FIRE INSURANCE UNDERWRITER, AND		
	— — — — — — — — — — — — — — — — — — —	GATE VALVE	PREMESIS.	NTAL AGENCIES AND AUTHORITIES HAVING JURISDICTION OVER THE		
	<u> </u>	OS&Y GATE VALVE	2. COORDINATE AL	L WORK WITH OTHER TRADES TO MINIMIZE INTERFERENCES WITH NEW FACILITATE TIMELY COMPLETION AND AVOID NECESSITY FOR CUTTING AND		
	ф —	BUTTERFLY VALVE	PATCHING. FUR	RNISH TO OTHER AFFECTED TRADES ALL NECESSARY INFORMATION, INGS OR MATERIALS REQUIRED FOR INSTALLATION AND COMPLETION OF		
	<u> </u>	CHECK VALVE	ALL WORK. ALL	CONFLICTS, OBSTRUCTIONS AND /OR MODIFICATIONS TO THE SPRINKLER DUE TO FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF		
	тр —	UNION	THE ENGINEER F	PRIOR TO FABRICATION AND INSTALLATION.		
		TEMPERATURE GAGE		HALL CONDUCT FLOW TEST TO ESTABLISH EXACT FLOW AND PRESSURE THE SITE FOR PREPARATION OF HYDRAULIC CALCULATIONS.		
DESIGN CRITERIA	P –	PRESSURE GAGE	4. ALTER PIPING	AS REQUIRED TO SUIT STRUCTURAL MEMBERS, CEILING HEIGHTS,		
HAZARD CLASSIFICATION ⁽¹⁾ DENSITY ⁽²⁾ PROTECTION AREA PER SPRINKLER ⁽³⁾	WF —	WATER FLOW SWITCH	FITTINGS REQU	D LIGHTS. PROVIDE AT NO EXTRA COST ALL ADDITIONAL PIPING AND IRED TO OFFSET SYSTEM TO AVOID STRUCTURAL, ARCHITECTURAL, ND ELECTRICAL INTERFERENCES, WHETHER INDICATED OR NOT, BEFORE		
LIGHT HAZARD 0.1 GPM / 1500 SQ. FT. 225 SQ. FT. MAX	TS —	TAMPER SWITCH	INSTALLING WOR			
ORDINARY HAZARD GROUP 1 0.15 GPM / 1500 SQ. FT. 130 SQ. FT. MAX	►	INSPECTORS TEST CONNECTION		IG SPRINKLER HEADS, THE CONTRACTOR SHALL PROVIDE THE SHORTEST E LENGTH BETWEEN THE FINAL SPRINKLER HEAD LOCATION AND THE		
NOTES: 1.) HAZARD CLASSIFICATION, DENSITY AND MAX. PROTECTION AREA SHALL BE IN ACCORDANCE WITH NEDA 13 2016 RECOMMENDATIONS LINESS OTHERWISE	_	FLOW ARROW	BRANCH LINE C	CONNECTION. MINIMUM 1" FOR TWO HEADS, 1—1/4" FOR THREE HEADS, /E HEADS, AND 2" FOR TEN HEADS.		
IN ACCORDANCE WITH NFPA 13 — 2016 RECOMMENDATIONS UNLESS OTHERWISE NOTED. 2.) WHERE REQUIRED BY THE BUILDING DEPARTMENT OR AUTHORITY HAVING	× –	SPRINKLER GUARD	, i	-1/2 GALLON PRESSURIZED WATER AND ONE 10 LB ABC DRY CHEMICAL		
JURISDICTION FOR PERMIT, THE ENTIRE SYSTEM SHALL BE HYDRAULICALLY CALCULATED.	o _e or • _e −	EXISTING SPRINKLER TO REMAIN	EXTINGUISHERS	FOR EMERGENCY USE DURING CONSTRUCTION.		
3.) THE MINIMUM PRESSURE AT EACH SPRINKLER HEAD SHALL BE 7 PSI. 4.) EQUIVALENT FITTING LENGTHS USED IN HYDRAULIC CALCULATIONS SHALL BE	Ø OR ₩ —	EXISTING SPRINKLER TO BE REMOVED NEW PENDENT SPRINKLER, CONCEALED		VALVES AT MAIN SHUT-OFF VALVES AND LOW POINTS.		
IN ACCORDANCE WITH NFPA 13 — 2016. 5.) DISCHARGE FROM EACH SPRINKLER SHALL NOT BE LESS THAN REQUIRED	0 –	OR EXPOSED AS NOTED. NEW UPRIGHT SPRINKLER	PENETRATING FI	PIPE OPENINGS THROUGH PARTITIONS WITH PIPE SLEEVES. FOR PIPES RE RATED PARTITIONS, THE SPACE BETWEEN THE PIPE AND THE SLEEVE		
AREA COVERAGE BY THIS HEAD. AREA COVERAGE PER HEAD SHALL BE DETERMINED IN ACCORDANCE WITH NFPA 13 SECTION 8.6.2.2.1 (2016).	0 –			ED WITH A LISTED FIRE STOPPING ASSEMBLY OR MATERIAL. NECTION AND FIRE DEPARTMENT CONNECTION THREADS SHALL BE TESTED		
6.) HYDRAULIC CALCULATIONS SHALL BE BROUGHT BACK TO THE CONNECTION TO THE STREET MAIN.	→ -	SIDEWALL SPRINKLER POINT OF CONNECTION	TO VERIFY CC	MPATIBILITY WITH THREADS USED BY LOCAL FIRE DEPARTMENT, IN ITH NFPA—14 (2016) SECTION 11.3.		
FLOW VELOCITY IN SPRINKLER PIPING SHALL NOT EXCEED 20 FEET PER SECOND (FPS).		POINT OF DISCONNECTION		OR SHALL MAKE A PROVISION FOR (10) EXTRA SPRINKLERS INCLUDING		
7.) DESIGN CRITERIA: GARAGE — ORDINARY HAZARD GROUP 1; TOILET ROOM — LIGHT HAZARD.	N1 —	HYDRAULIC REFERENCE NODE	IMMEDIATE BRA	NNCH PIPING, FITTINGS AND ARM-OVERS. THE CONTRACTOR SHALL THE FINAL CONFIGURATION OF OPEN AND HUNG CEILINGS, ALL HVAC		
	<u> </u>	HYDRAULIC REFERENCE SPRINKLER	DUCTWORK AND	PIPING AND STRUCTURAL ELEMENTS THROUGHOUT THE AREA OF WORK.		
		FIRE DEPARTMENT CONNECTION	DRAWING, FULL	ORS SHALL SUBMIT FOR REVIEW AND APPROVAL A COMPOSITE SHOP Y COORDINATED WITH ALL OTHER TRADES INDICATING ALL DUCTWORK,		
	AFF	ABOVE FINISHED FLOOR		QUIPMENT, PIPING, ELECTRICAL EQUIPMENT, PLUMBING PIPING AND HTS, CONDUITS, DIFFUSERS, GRILLES AND FIRE ALARM DEVICES.		
	AHC	ABOVE HUNG CEILING	EQUIPMENT	NOTES		
	ATC	AT CEILING				
	BFP	BACKFLOW PREVENTOR		<u>DL VALVE ASSEMBLY:</u> SHALL BE BASED ON VICTAULIC FIRELOCK DNE RISER MODULE SERIES 747M WITH DRAIN CONNECTION AND SIGHT		
	DCDA DOUBLE CHECK DETECTOR ASSEMBLY		GLASS. PROVIDE 4" VICTAULIC FIRELOCK BUTTERFLY VALVE AND CHECK VALVE EQUAL BEFORE RISER MODULE.			
	DCV	DOUBLE CHECK VALVE BFP		NT CONNECTION: SHALL BE BASED ON POTTER ROEMER 5753 OR EQUAL		
	DN.	DOWN	ABOVE THE SI	CADE. SIAMESE SHALL BE PLACED BETWEEN 18 INCHES AND 36 INCHES DEWALK. FIRE DEPARTMENT CONNECTION SHALL HAVE TWO (2) 3" READED SWIVEL FITTINGS WITH THREADS CONFORMING TO AHJ STANDARDS		
	FCA	FLOOR CONTROL ASSEMBLY		PROVIDE AUTOMATIC BALL DRIP AT FDC FACE PLATE.		
,	FD	FLOOR DRAIN	3. SPRINKLERS: RE	FER TO DRAWINGS FOR SPRINKLER HEAD SCHEDULE.		
	FLFD	FUNNEL FLOOR DRAIN				
	0011	L CALLONS DER MINITE	_			
	GPM .IP	GALLONS PER MINUTE JOCKEY PUMP		I		
	JP	JOCKEY PUMP				
	JP NFPA	JOCKEY PUMP NATIONAL FIRE PROTECTION ASSOCIATION				
	JP	JOCKEY PUMP				
	JP NFPA (N0)	JOCKEY PUMP NATIONAL FIRE PROTECTION ASSOCIATION NORMALLY OPEN				
	JP NFPA (NO) (NC)	JOCKEY PUMP NATIONAL FIRE PROTECTION ASSOCIATION NORMALLY OPEN NORMALLY CLOSED				
	JP NFPA (NO) (NC) NTS	JOCKEY PUMP NATIONAL FIRE PROTECTION ASSOCIATION NORMALLY OPEN NORMALLY CLOSED NOT TO SCALE				
	JP NFPA (N0) (NC) NTS PRV	JOCKEY PUMP NATIONAL FIRE PROTECTION ASSOCIATION NORMALLY OPEN NORMALLY CLOSED NOT TO SCALE PRESSURE REDUCING VALVE				
	JP NFPA (N0) (NC) NTS PRV PSI	JOCKEY PUMP NATIONAL FIRE PROTECTION ASSOCIATION NORMALLY OPEN NORMALLY CLOSED NOT TO SCALE PRESSURE REDUCING VALVE POUNDS PER SQUARE INCH				
	JP NFPA (N0) (NC) NTS PRV PSI RPZ	JOCKEY PUMP NATIONAL FIRE PROTECTION ASSOCIATION NORMALLY OPEN NORMALLY CLOSED NOT TO SCALE PRESSURE REDUCING VALVE POUNDS PER SQUARE INCH REDUCED PRESSURE ZONE BFP				
	JP NFPA (N0) (NC) NTS PRV PSI RPZ	JOCKEY PUMP NATIONAL FIRE PROTECTION ASSOCIATION NORMALLY OPEN NORMALLY CLOSED NOT TO SCALE PRESSURE REDUCING VALVE POUNDS PER SQUARE INCH REDUCED PRESSURE ZONE BFP SQUARE FOOT		LOOKITRAGT LOUPET		
OLA Consulting Engineers	JP NFPA (N0) (NC) NTS PRV PSI RPZ SF	JOCKEY PUMP NATIONAL FIRE PROTECTION ASSOCIATION NORMALLY OPEN NORMALLY CLOSED NOT TO SCALE PRESSURE REDUCING VALVE POUNDS PER SQUARE INCH REDUCED PRESSURE ZONE BFP SQUARE FOOT RECORD DRAWING CERTIFICATION		TER COUNTY, NEW YORK CONTRACT SHEET NUMBER SHUDLIG WORKS AND TRANSPORTATION 17-521 FP-001		
nologies USA, Inc. Engineers rive 50 Broadway, Hawthorne, New York 10532 914.747.2800	JP NFPA (N0) (NC) NTS PRV PSI RPZ SF	JOCKEY PUMP NATIONAL FIRE PROTECTION ASSOCIATION NORMALLY OPEN NOT TO SCALE PRESSURE REDUCING VALVE POUNDS PER SQUARE INCH REDUCED PRESSURE ZONE BFP SQUARE FOOT RECORD DRAWING CERTIFICATION AS BUILT — CHANGES AS NOTED AS BUILT — NO CHANGES	DEPARTMENT OF	TER COUNTY, NEW YORK PUBLIC WORKS AND TRANSPORTATION DIVISION OF ENGINEERING CONTRACT SHEET NUMBER NUMBER 17-521 FP-001 SHEET NO. 30 OF 53		
nologies USA, Inc. Engineers 50 Broadway, Hawthorne, New York 10532	JP NFPA (N0) (NC) NTS PRV PSI RPZ SF	JOCKEY PUMP NATIONAL FIRE PROTECTION ASSOCIATION NORMALLY OPEN NORMALLY CLOSED NOT TO SCALE PRESSURE REDUCING VALVE POUNDS PER SQUARE INCH REDUCED PRESSURE ZONE BFP SQUARE FOOT RECORD DRAWING CERTIFICATION AS BUILT — CHANGES AS NOTED	DEPARTMENT OF	PUBLIC WORKS AND TRANSPORTATION 17-521 FP-001		









LIGHT HAZARD ORDINARY HAZARD MAX AREA PER HEAD DENSITY PER 1500 SQ. FT 225 SQ. FT. 130 SQ. FT. 0.10 GPM/SQ. FT. 0.16 GPM/SQ. FT.

SPRINKLER HEAD SPACING CRITERIA

TERMINATE SLEEVE FLUSH WITH FINISHED WALL SURFACES STANDARD WEIGHT STEEL PIPE SLEEVE OF SIZE TO SEAL OR CAULK SLEEVE -PASS PIPE AND THROUGH FIRE WALLS IN INSULATION. A SMOKE TIGHT MANNER. -FINISHED ESCUTCHEON PLATE FLUSH AGAINST PIPE AND INSULATION WALL AND OF SIZE TO TO BE CENTERED IN COMPLETELY COVER SLEEVE. DO NOT OPENING. SUPPORT PIPE FROM SLEEVE. FINISHED WALL SURFACE. ---PIPING EXPOSED TO VIEW. CONCEALED PIPING.

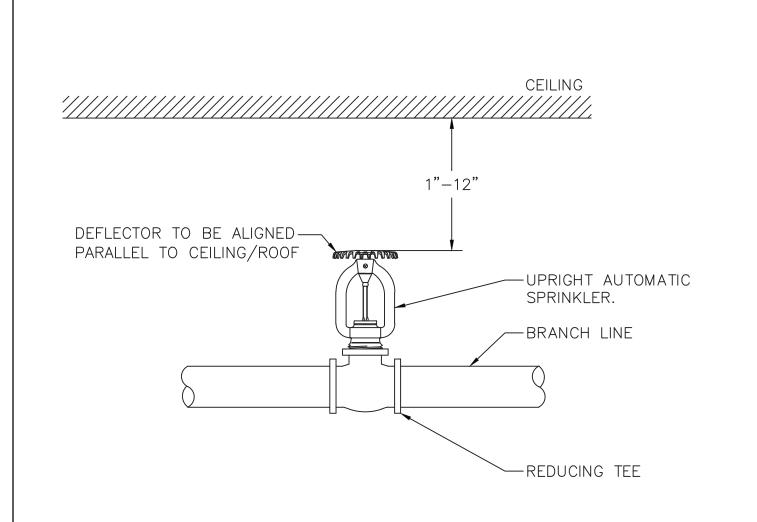
PIPE WALL SLEEVE DETAIL

SPRINKLER ZONE CONTROL RISER MODULE WITH CHECK VALVE & PSI RELIEF

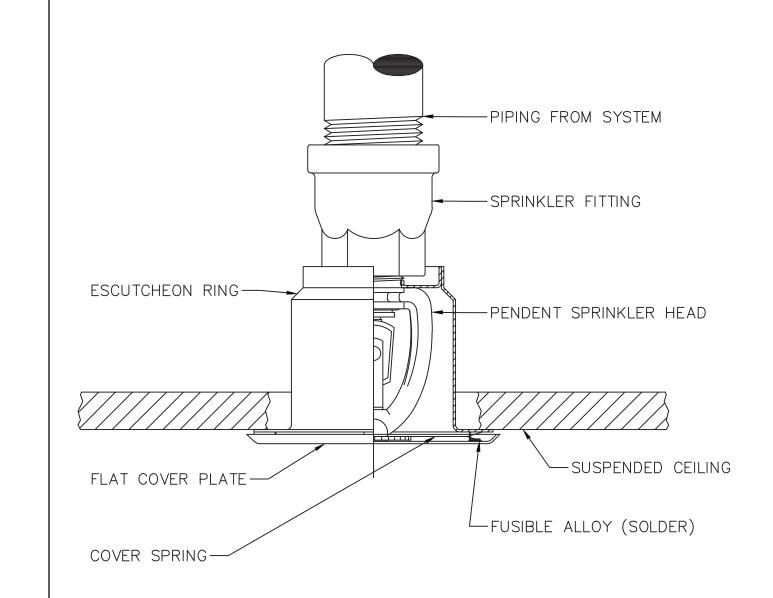
	SPRINKLER HEAD SCHEDULE								
SYM	. TYPE	LOCATION	FINISH	MANUF.	MODEL	HEAD TEMP.	MAX CLG. TEMP	ORIFICE	K-FACTOR
8	CONCEALED PENDENT	FINISHED AREAS PER PLANS	COVER PER ARCHITECT	RELIABLE	G5-56	165 ° F	100°F	1/2"	5.6
0	UPRIGHT	EXPOSED AREAS PER PLANS	CHROME PLATED	RELIABLE	F1FR	165°F	100°F	1/2"	5.6
\triangleright	SIDEWALL	GARAGE DOORS	CHROME PLATED	RELIABLE	G6-56	165°F	100°F	1/2"	5.6

NOTES:

- SPRINKLER HEADS SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS
 PROVIDE UPRIGHT SPRINKLER HEADS WITH PROTECTIVE CAGES FOR ALL SPRINKLER HEADS.
 ALL SPRINKLER HEADS THROUGHOUT THE PROJECT AREA SHALL BE OF THE ORDINARY TEMPERATURE RATING EXCEPT AS
- A. SPRINKLER HEADS LOCATED CLOSE TO HEATERS, SHALL BE OF THE TEMPERATURE RATING AS REQUIRED BY NFPA-13.
 B. ALL HEAT GENERATING EQUIPMENT WHICH CAN AFFECT THE TEMPERATURE RATING OF THE SPRINKLER HEADS SHALL BE CLEARLY IDENTIFIED ON THE SHOP DRAWINGS PRIOR TO SUBMISSION FOR APPROVAL.



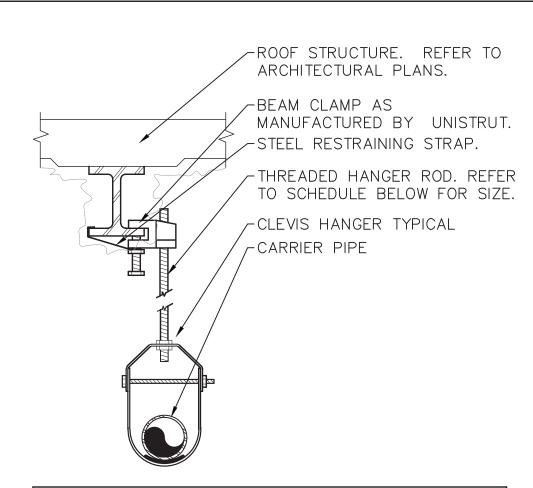
TYPICAL UPRIGHT SPRINKLER



SPRINKLER TEMPERATURE ZONES

AT UNIT HEATERS

CONCEALED PENDENT SPRINKLER HEAD IN SUSPENDED CEILING



PIPE HANGER SCHEDULE PIPE DIA. 3/4"-2" 2 1/2"-3" 4"-5" 6" 8"-12" HANGER DIA. | 3/8" | 1/2" | 5/8" | 3/4" | 7/8"

- 1.) CLEVIS HANGERS WITH WELDED INSULATION SHIELDS SIMILAR TO RAUCH FIG. 100SH ON ALL PIPES LARGER THAN 1".
- 2.) FOR PIPES 1" OR SMALLER, A BAND HANGER WITH INSULATION SHIELD MAY BE USED SIMILAR TO RAUCH FIG. NO. 1ASH.
- 3.) FOR NON-INSULATED PIPE, INSULATION SHIELDS MAY BE OMITTED.
- 4.) ALL PIPE HANGERS SHALL BE GALVANIZED STEEL OR FACTORY PAINTED BLACK WITH
- 5.) FOR NON FERROUS PIPING WITHOUT INSULATION, ALL HANGERS SHALL BE COPPER PLATED OR FURNISHED WITH A DI-ELECTRIC BETWEEN PIPE AND HANGERS.
- 6.) WHERE EXISTING BUILDING STRUCTURAL COMPONENTS HAVE FIREPROOF MATERIAL, ANY AREA THAT IS DISTURBED OR DAMAGED AS A RESULT OF HANGER INSTALLATION SHALL BE PATCHED WITH UL AND FM APPROVED FIREPROOFING TO MATCH EXISTING.





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OLA Consulting Engin 50 Broadway, Hawtho New York 10532 914.747.2800 8 West 38th Street, No York, NY 10018 646.849.4110 olace.com OLA P/N: NDCA0012

						RECORD DRAWING	CERTIFICATION	
gineers horne,						AS BUILT — CHANGES AS NOTED AS BUILT — NO CHANGES		
New						CONTRACTOR NAME	PROJECT COORDINATOR NAME	
)12	REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION	SIGNATURE DATE	SIGNATURE DATE	

WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION DIVISION OF ENGINEERING

NEW EQUIPMENT STORAGE BUILDING RICHARD A. FLYNN, SR. FIRE TRAINING CENTER VALHALLA CAMPUS, VALHALLA, NEW YORK FIRE PROTECTION DETAILS

J	CONTRACT NUMBER 17-521	SHEET NUMBER FP-7	70
	SHEET NO. 3	2 of 5	3
	SCALE: AS S	SHOWN 16/202	1
	DPW FILE NO.		RE\ NO
	38-47-FP-	-714-0	0

SPRINKLER HEAD SCHEDULE

Tel 845-353-1300