

FIRE PROTECTION SPECIFICATION

I. GENERAL

- A. PERFORM ALL WORK IN ACCORDANCE WITH THE 2020 NYS BUILDING CODE, OSHA, PERTINENT NFPA CODES AND THE RULES AND REGULATIONS OF ALL LOCAL, STATE AND FEDERAL AUTHORITIES HAVING JURISDICTION. SPRINKLER SYSTEM MUST BE INSTALLED IN ACCORDANCE WITH FACTORY MUTUAL STANDARDS. PROVIDE OWNER WITH CERTIFICATES OF INSPECTION. COMPLY WITH BASE BUILDING RULES AND REGULATIONS.
- B. DO ALL NECESSARY CUTTING AND ROUGH PATCHING. THE FOLLOWING WORK WILL BE DONE BY OTHERS: FINISH PAINTING AND PATCHING.
- C. THESE DRAWINGS INDICATE THE SIZE AND GENERAL LOCATION OF WORK. SCALED DIMENSIONS SHALL NOT BE USED. ANY DIMENSIONS NOT SHOWN SHALL BE OBTAINED FROM THE EXISTING ARCHITECTURAL DRAWINGS. FOR EXACT LOCATIONS, HEIGHT, DOOR SWINGS, MOUNTING HEIGHTS, ETC., REFER TO ARCHITECTURAL DRAWINGS AND DETAILS.
- D. COORDINATE WORK WITH OTHER TRADES. CONFER WITH OTHER CONTRACTORS WHOSE WORK MIGHT AFFECT THIS INSTALLATION, AND ARRANGE ALL PARTS OF THIS WORK AND EQUIPMENT IN PROPER SEQUENCE AND RELATION TO THE WORK AND EQUIPMENT OF OTHERS, WITH THE BUILDING CONSTRUCTION AND WITH ARCHITECTURAL FINISH SO THAT IT WILL HARMONIZE IN SERVICE AND APPEARANCE.
- E. FURNISH ADEQUATE LIABILITY INSURANCE AND BONDING AS REQUIRED BY THE OWNER'S REPRESENTATIVE.
- F. SUBMIT SIGNED AND SEALED DRAWINGS TO THE OWNER'S REPRESENTATIVE FOR REVIEW AND COMMENT BEFORE FABRICATION OF PIPING AND EQUIPMENT IS STARTED.
- G. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEM AND WORK PIPE ROUTING IS SHOWN DIAGRAMMATICALLY AND DOES NOT SHOW ALL OFFSETS, DROPS AND RISER OF RUNS. THE CONTRACTOR SHALL ALLOW IN HIS PRICE ROUTING OF PIPE TO AVOID OBSTRUCTIONS. COORDINATION WITH THE EXISTING SERVICES, INCLUDING THOSE OF OTHER TRADES IS REQUIRED. MAINTAIN HEADROOM AND SPACE CONDITIONS.
- H. INVESTIGATE EACH SPACE THROUGH WHICH EQUIPMENT MUST BE MOVED. WHERE NECESSARY, EQUIPMENT SHALL BE SHIPPED FROM MANUFACTURER IN SECTIONS OF SIZE SUITABLE FOR MOVING THROUGH AVAILABLE RESTRICTIVE SPACES. ASCERTAIN FROM BUILDING OWNER AND TENANT AT WHAT TIMES OF DAY EQUIPMENT MAY BE MOVE THROUGH ALL AREAS.
- I. INSTALL WORK SO AS TO BE READILY ACCESSIBLE FOR OPERATION, MAINTENANCE AND REPAIR. MINOR DEVIATIONS FROM DRAWINGS MAY BE MADE TO ACCOMPLISH THIS, BUT CHANGES WHICH INVOLVE EXTRA COST SHALL NOT BE MADE WITHOUT APPROVAL.
- J. REMOVAL AND RELOCATION OF CERTAIN EXISTING WORK WILL BE NECESSARY FOR THE PERFORMANCE OF THE GENERAL WORK. ALL EXISTING CONDITIONS CANNOT BE COMPLETELY DETAILED ON THE DRAWINGS. THE CONTRACTOR SHALL SURVEY THE SITE AND INCLUDE ALL CHANGES IN MAKING UP THE WORK PROPOSAL.
- K. DISCONNECT, REMOVE AND/OR RELOCATE EXISTING MATERIAL, EQUIPMENT AND OTHER WORK AS NOTED OR REQUIRED FOR PROPER INSTALLATION OF NEW WORK.
- L. THE CONTRACTOR SHALL KEEP ALL EQUIPMENT AND MATERIALS, AND ALL PARTS OF THE BUILDING, EXTERIOR SPACES AND ADJACENT STREETS, SIDEWALKS AND PAVEMENTS, FREE FROM MATERIAL AND DEBRIS RESULTING FROM EXECUTION OF THIS WORK. EXCESS MATERIALS WILL NOT BE PERMITTED TO ACCUMULATE EITHER ON THE INTERIOR OR THE EXTERIOR.
- M. THE LOCATIONS OF THE EXISTING SERVICES ARE BELIEVED TO BE AS INDICATED ON THE DRAWINGS. THE CONTRACTOR SHALL VERIFY THE ACTUAL LOCATION OF THESE SERVICES AND NOTIFY THE OF ANY DISCREPANCIES PRIOR TO COMMENCING ANY WORK.
- N. ALL MATERIAL AND EQUIPMENT TO BE NEW UNLESS OTHERWISE NOTED & SHALL BE IN ACCORDANCE WITH BUILDING STANDARDS.
- O. ALL TIE-INS TO BUILDING RISERS AND SYSTEMS SHALL BE PERFORMED BY LANDLORD AND REIMBURSED BY TENANT.
- P. WHEN INSTALLATION OF NEW WORK REQUIRES THE SHUT-DOWN OR TIE-IN TO OF EXISTING SYSTEM, THE CONNECTION OF THE NEW WORK SHALL BE PERFORMED ONLY AFTER GIVING AT LEAST 48 HOURS (2 WORKING DAYS) NOTICE AND OBTAINING THE WRITTEN AUTHORIZATION OF THE OWNER.

2. SCOPE OF WORK

- THE WORK UNDER THIS SECTION SHALL CONSIST OF FURNISHING ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY AND REQUIRED TO COMPLETE ALL FIRE PROTECTION WORK AS INDICATED ON THE DRAWINGS AND SPECIFICATIONS, INCLUDING, BUT NOT NECESSARILY LIMITED TO:
- A. WET, AUTOMATIC SPRINKLER SYSTEMS AS INDICATED ON THE DRAWINGS.
- B. THE INSTALLATION OF ALL SPRINKLERS, PIPING, & EQUIPMENT.
- C. PIPE HANGERS AND SUPPORTS.
- D. PERFORMANCE OF ALL TESTS AS REQUIRED BY AUTHORITIES HAVING JURISDICTION.
- E. PREPARATION OF HYDRAULIC CALCULATIONS.
- F. CONTRACTOR SHALL GIVE NECESSARY NOTICE, FILE ALL DRAWINGS & SPECIFICATIONS WITH THE DEPARTMENT HAVING JURISDICTION, OBTAIN ALL PERMITS OR LICENSES NECESSARY TO CARRY OUT THIS WORK & PAY ALL FEES THERE FOR. THE CONTRACTOR SHALL ARRANGE FOR INSPECTION & TEST OF ANY BUILDING DEPARTMENT & PAY ALL OF THE COST FOR & FURNISH TO THE OWNER BEFORE FINALLY BILLING ALL WORK INSTALLED WITH ALL REGULATIONS WHERE THEY APPLY TO THIS WORK.
- G. CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY SPECIAL INSPECTIONS INCLUDING SPRINKLER (BC 1104.21) CONTRACTOR MUST PROVIDE NAME OF COMPANY AND CONTACT INFORMATION PRIOR TO PERMITTING.

3. SHOP DRAWINGS

- A. PRIOR TO THE INSTALLATION OF ANY WORK AND PROCUREMENT OF EQUIPMENT PROVIDE COMPLETE SET OF COORDINATED SHOP DRAWINGS OF ALL NEW AND EXISTING EQUIPMENT, INDICATING CAPACITY DIMENSIONS AND AND SEQUENCE OF OPERATION FOR WRITTEN APPROVAL BY THE ARCHITECT AND ENGINEER.
- B. INDICATE ON EACH SHOP DRAWING SUBMITTED
1. PROJECT NAME
2. NAME OF ARCHITECT AND ENGINEER
3. ITEM IDENTIFICATION
4. APPROVAL STAMP OF PRIME CONTRACTOR
- C. SUBMISSIONS:
1. CATALOG CUTS: CONTRACTOR SHALL SUBMIT VIA ARCHITECT 4 SETS OF CATALOG CUTS, FOR REVIEW & APPROVAL.
2. DRAWINGS: CONTRACTOR SHALL SUBMIT VIA THE ARCHITECT (1) REPRODUCIBLE & (3) PRINTS FOR REVIEW & APPROVAL.
3. FAILURE TO SUBMIT THE REQUIRED NUMBER OF CUTS AND DRAWINGS FOR REVIEW AND APPROVAL WILL RESULT IN AN AUTOMATIC REJECTION.
4. SUBMISSIONS VIA FAX ARE NOT ACCEPTABLE.
- D. SUBMIT SHOP DRAWINGS FOR THE FOLLOWING:
1. PIPE AND FITTINGS.
2. SPRINKLERS AND ACCESSORIES.
3. PIPING LAYOUTS.
4. HYDRAULIC CALCULATIONS.
5. SUPPORTS, HANGERS AND GUIDES.

4. AS-BUILTS DRAWINGS AND OPERATING AND SERVICE MANUALS

- A. AT THE COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL DEVELOP AS BUILT DRAWINGS ACCURATELY REFLECTING THE INSTALLATION OF THE COMPLETE SYSTEM, RECORDING ALL CHANGES FROM THE ORIGINAL DESIGN THAT OCCURRED DURING THE CONSTRUCTION PROCESS.
- B. AFTER COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL FULLY INSTRUCT THE APPROPRIATE OWNERS PERSONAL ON THE OPERATIONS OF ALL SYSTEMS INSTALLED.
- C. AS PART OF FINAL ACCEPTANCE OF INSTALLATION, THE CONTRACTOR SHALL SUPPLY THE OWNERS WITH TWO COPIES (2) OF CONTRACT CLOSE OUT DOCUMENTS INCLUDING SHOP DRAWINGS, AS BUILT DRAWINGS, OPERATION AND MAINTENANCE MANUALS, AND FINAL HYDRAULIC CALCULATIONS REPORT. THIS SHALL BE PROVIDED IN A DIGITAL IN ADDITION TO A BINDER WITH LAMINATED SHEETS. IN ADDITION, PROVIDE A DIGITAL COPY TO THE ENGINEER, ARCHITECT, AND OWNER FOR THEIR RECORDS.
5. FINAL ACCEPTANCE, GUARANTEES, AND WARRANTIES
- A. AS PART OF THE CONTRACT, THE CONTRACTOR SHALL GUARANTEE AND SERVICE THE FINAL INSTALLATION FOR ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE INSTALLATION (DEFINED BELOW).
- B. UP UNTIL FINAL ACCEPTANCE AND THE ONE YEAR GUARANTEE FOLLOWING, THE CONTRACTOR SHALL REPAIR OR REPAIR ANY EQUIPMENT OR MATERIAL FOUND TO BE DEFECTIVE AT THE CONTRACTORS EXPENSE. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR ANY DAMAGE CAUSED TO THE SURROUNDING AREAS RELATED TO THE ISSUE. IF A PRODUCT UNDER WARRANTY REQUIRES A REPAIR DURING THIS PERIOD, THE CONTRACTOR IS FULLY RESPONSIBLE FOR COORDINATING THE MANUFACTURER'S REMEDIATION WORK TO THE EQUIPMENT.
- C. FINAL ACCEPTANCE OF INSTALLATION SHALL BE CONFIRMED AFTER THE CONTRACTOR HAS INSTALLED ALL SYSTEMS TO THE OWNERS/ENGINEERS APPROVAL, SUBMITTED AS BUILTS, AND HAS OBTAINED ALL REQUIRED CERTIFICATES OF INSPECTIONS AND APPROVALS.
6. CONNECTIONS TO EXISTING WORK, REMOVAL AND RELOCATION
- A. PLAN INSTALLATION OF ALL NEW WORK INCLUDING CONNECTIONS TO EXISTING WORK TO ENSURE MINIMUM INTERFERENCE WITH REGULAR OPERATION OF EXISTING BUILDING FACILITIES. ALL REQUIRED SYSTEM SHUTDOWNS AFFECTING OTHER AREAS SHALL BE COORDINATED WITH THE BUILDING. THERE SHALL BE NO ADDITIONAL CHARGE FOR DOING SHUTDOWNS TO THE SYSTEM DURING NORMAL BUSINESS HOURS OR AFTER HOURS.
- B. CONNECT NEW WORK TO EXISTING WORK IN A NEAT AND APPROVED MANNER. RESTORE EXISTING WORK WHICH WAS DISTURBED WHILE INSTALLING NEW WORK TO A CONDITION ACCEPTABLE TO THE OWNER.
- C. REMOVAL AND RELOCATION OF SOME EXISTING MATERIAL, EQUIPMENT, OR PIPING WILL BE NECESSARY FOR THE PROPER INSTALLATION OF NEW WORK. ALL EXISTING CONDITIONS HAVE NOT BEEN COMPLETELY DETAILED ON THE DRAWINGS.

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7. CUTTING AND PATCHING

- A. ALL NECESSARY CUTTING AND CORE DRILLING AND PATCHING FOR THE INSTALLATION OF THE WORK SHALL BE PERFORMED BY THIS CONTRACTOR.
- B. FIRE STOPPING SHALL BE THE SOLE RESPONSIBILITY OF THIS CONTRACTOR. ALL EXISTING AND NEW PENETRATIONS MUST BE PROPERLY FIRE-STOPPED WITH APPROVED FIRE-STOPPING SEALANT.

8. HANGERS

- A. SUPPORT ALL PIPING WITH ACCEPTABLE HANGERS, ANCHORS, FRICTION HANGERS, AND SUPPORTS AS INDICATED OR SPECIFIED. HANGERS SHALL BE OF HEAVY IRON OR STEEL CONSTRUCTION. NO CAST STEEL OR CAST IRON SHALL BE USED. HANGERS SHALL HAVE NUT ABOVE AND USED. HANGERS SHALL HAVE NUT ABOVE AND BELOW HANGER UPPER NUT SHALL BE LOCKED AGAINST HANGER TO PREVENT LOOSENING BY VIBRATION.
- B. SUPPORT HORIZONTAL PIPING AS FOLLOWS:
- (1) PIPING 1" SIZE AND SMALLER: ADJUSTABLE RING HANGER NOT MORE THAN 8'-0" APART.
- (2) PIPING 1-1/4" AND LARGER: CLEVIS HANGER NOT MORE THAN 10'-0" APART.
- (3) PIPING SUPPORTED FROM WALL SHALL BE PROVIDED WITH WELDED ANGLE IRON BRACKETS.
- C. PROVIDE HANGERS ON EVERY BRANCH OVER 3'-0" LONG.
- D. NO CHAIN, METAL STRAP OR WIRE WILL BE PERMITTED FOR THE SUPPORT OF ANY PIPING.

9. MATERIALS AND INSTALLATION

- A. SYSTEM AND COMPONENT PARTS SHALL BE THE PRODUCTS OF A MANUFACTURER EQUIPPED AND EXPERIENCED IN THE MANUFACTURING OF STANDPIPE/SPRINKLER SYSTEMS. DEVICES SHALL BE UNDERWRITERS LABORATORIES AND/OR FACTORY MUTUAL APPROVED AND SHALL HAVE A CURRENT LISTING IN THEIR RESPECTIVE "APPROVED EQUIPMENT" LISTS. COMPONENTS AND PARTS SHALL BE SUBJECT TO THE ACCEPTANCE OF THE ARCHITECT.
- B. ALL SPRINKLER AND FIRE STANDPIPE PIPING ABOVE GRADE, STANDARD WEIGHT BLACK STEEL PIPE, SCHEDULE 40, WELDED OR SEAMLESS, WITH MANUFACTURER'S NAME ROLLED INTO LENGTH.
- C. THREADS SHALL BE FULL AND CLEAN CUT & BURRS FORMED IN CUTTING SHALL BE REMED. IN ASSEMBLING PIPING, CARE SHALL BE TAKEN THAT THE PIPE DOES NOT EXTEND INTO THE FITTING OBSTRUCTING THE WATERWAY. JOINT COMPOUND SHALL BE APPLIED TO THE THREADS OF THE PIPE AND NOT TO THE FITTINGS OR SPRINKLERS. PIPES SHALL BE STRAIGHTENED BEFORE INSTALLATION TO PREVENT POCKETS. PIPES SHALL FITCH NOT LESS THAN 1/4" IN 10 FEET.
- D. FITTINGS, UNLESS OTHERWISE SPECIFIED, SHALL BE BLACK MALLEABLE IRON STANDARD SPRINKLER FITTINGS.
- E. SCREWED FITTINGS SHALL BE 115# CAST IRON, ANSI B16.4.
- F. FLANGED FITTINGS SHALL BE 115# CAST IRON ANSI B16.1.
- G. COUPLINGS SHALL NOT BE USED EXCEPT WHERE PIPE IS MORE THAN 20 FEET IN LENGTH BETWEEN FITTINGS.
- H. A ONE-PIECE REDUCING FITTING SHALL BE USED WHEREVER A CHANGE IS MADE IN THE SIZE. THE USE OF BUSHINGS OR REDUCING FLANGES WILL NOT BE PERMITTED.
- I. UNIONS SHALL BE OF THE HEAVY GROUND TYPE AND SHALL BE USED ONLY ON PIPES 2" AND SMALLER.
- J. VICTAULIC GROOVED TYPE COUPLINGS WITH GROOVED FITTINGS MAY BE USED THROUGHOUT OR IN PART.
- K. INSTALL SPRINKLER HEADS IN ALL AREAS ON TRUE AXIS LINE IN BOTH DIRECTIONS WITH A MAXIMUM DEVIATION OF 1/2" FROM THE AXIS LINE ESTABLISHED BY THE ARCHITECT FOR THE USE OF ALL TRADES. AT THE COMPLETION OF THE INSTALLATION, REMOVE AND REINSTALL ANY SPRINKLER HEADS FOUND TO EXCEED THE ABOVE-MENTIONED TOLERANCE.

10. SPRINKLERS

- A. SPRINKLERS SHALL BE NEW, CURRENT ISSUE, SPRAY TYPE, WITH 1/2" NOMINAL DISCHARGE ORIFICE AS INDICATED ON DRAWINGS. SPRINKLERS SHALL BE AS FOLLOWS:
1. CONCEALED SPRINKLES: VIKING MIRAGE OR AUTOMATIC SPRINKLER HEAD MODEL VK462. 1/2" STANDARD ORIFICE WITH 1/2" NPT THREAD. K-FACTOR = 5.6. ORDINARY TEMPERATURE RATING 155°F. COVER PLATE SHALL BE WHITE UNLESS NOTED.
2. UPRIGHT SPRINKLER: VIKING MICROFAST OR AUTOMATIC SPRINKLER HEAD MODEL VK300. 1/2" STANDARD ORIFICE WITH 1/2" NPT THREAD. K-FACTOR = 5.6. ORDINARY TEMPERATURE RATING 155°F. BRASS CASTING FOR MATERIALS.
3. PENDANT SPRINKLER: VIKING MICROFAST OR AUTOMATIC SPRINKLER HEAD MODEL VK302. 1/2" STANDARD ORIFICE WITH 1/2" NPT THREAD. K-FACTOR = 5.6. ORDINARY TEMPERATURE RATING 155°F. BRASS CASTING FOR MATERIALS.
- B. CONTRACTOR SHALL COORDINATE SPRINKLER LOCATIONS WITH THE CEILING GRID, LIGHT FIXTURES, DIFFUSERS, AUDIO EQUIPMENT, SMOKE DETECTORS, AND ALL OTHER COMPENSATES OF THE REFLECTED SPRINKLER PLAN.
- C. CONTRACTOR SHALL PROVIDE METAL SPRINKLER GUARDS FOR UPRIGHT HEADS INSTALLED IN STORAGE ROOMS, MECHANICAL ROOMS, OR WHERE HEAD ROOM IS LOW.

11. DRAINS

- A. ARRANGE THE PERMANENT INSTALLATION OF PIPING SUCH THAT ALL OR ANY PART OF THE WORK MAY BE COMPLETELY DRAINED. PIPING SHALL PITCHED SO AS TO DRAIN TO THE MAIN DRAIN OR TO AUXILIARY DRAINS.
- B. DRAIN CONNECTIONS FOR SYSTEM SUPPLY RISERS & MAINS SHALL BE IN ACCORDANCE WITH REQUIREMENTS OF NFPA.
- C. DRAINS SHALL DISCHARGE OUTSIDE OR TO A DRAIN CONNECTION CAPABLE OF ACCEPTING FULL FLOW OR TO ANOTHER LOCATION WHERE WATER DAMAGE WILL NOT OCCUR.

12. EMERGENCY CABINET

- A. THE CABINET SHALL BE LOCATED WHERE THE TEMPERATURE TO WHICH THEY ARE SUBJECT WILL AT NO TIME EXCEED 100°.
- B. A SPECIAL SPRINKLER WRENCH SHALL ALSO BE PROVIDED AND KEPT IN THE CABINET.
- C. THE STOCK OF SPARE SPRINKLER SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA 13.

13. TESTS

- A. THE SPRINKLER SYSTEM SHALL BE HYDROSTATICALLY TESTED AT A PRESSURE OF 200 PSI FOR TWO HOURS AND ANY DEFECTS OR LEAKS SHALL BE REMEDIED. CAULKING OF THREADS SHALL NOT BE PERMITTED. THIS TEST MUST BE DONE IN THE PRESENCE OF A BUILDING ENGINEER.
- B. DEFECTS DISCLOSED BY THE TESTS SHALL BE REPAIRED OR REPLACED. TEST SHALL BE REPEATED AS DIRECTED UNTIL ALL WORK IS PROVEN SATISFACTORY.
- C. APPROVAL OF AUTHORITIES HAVING JURISDICTION SHALL BE OBTAINED IN WRITING BEFORE FINAL ACCEPTANCE OF THIS WORK.
- D. AT THE COMPLETION OF THE INSTALLATION, THE CONTRACTOR SHALL TURN OVER TO THE OWNER FOR RECORD PURPOSES ONE SET OF REPRODUCIBLE APPROVED, AS-BUILT SHOP DRAWINGS.
- E. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT DAMAGE TO THE BUILDING & ITS CONTENTS AS A RESULT OF ALL TEST. CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR AT NO COST TO THE OWNER, ARCHITECT, OR ENGINEER, ANY DAMAGE CAUSED BY SUCH TEST.
- F. ARRANGE & COORDINATE TEST WITH OWNER 48 HOURS IN ADVANCE. NOTIFY AUTHORITY HAVING JURISDICTION & ENGINEER OF TEST DATE & TIME.
- G. CONTRACTOR SHALL COMPLETE & SIGN ALL APPROPRIATE CONTRACTOR MATERIAL & TEST CERTIFICATES.

14. ACCESS DOORS

- CONTRACTOR TO PROVIDE AND INSTALL ACCESS DOORS FOR MAINTENANCE ON ALL EQUIPMENT ABOVE HARD CEILING OR BEHIND HARD WALLS. THIS INCLUDES BUT IS NOT LIMITED TO CONTROL VALVES, DRAIN TEST VALVES. COORDINATE SIZE AND LOCATION OF ALL ACCESS DOORS WITH BUILDING PERSONNEL.

15. INSTALLATION

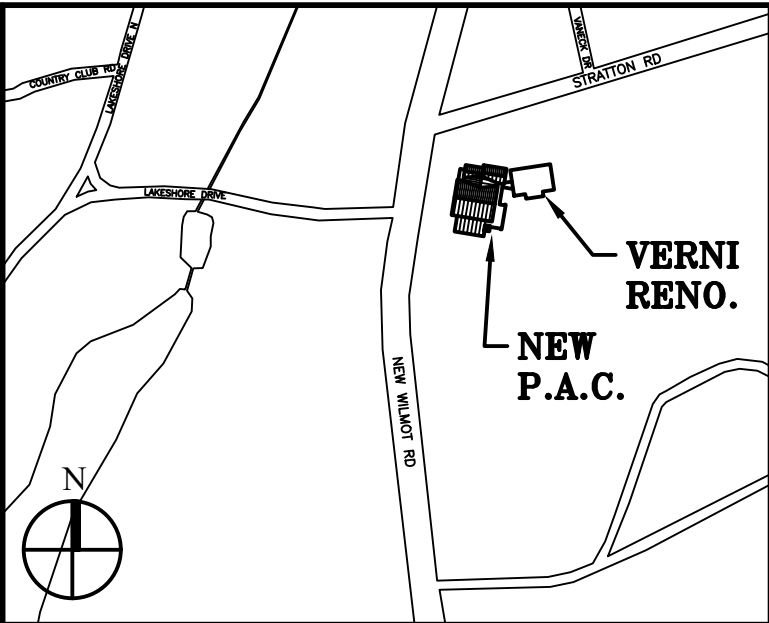
- A. DURING CONSTRUCTION, PROPERLY CAP ALL LINES AND EQUIPMENT NOZZLES SO AS TO PREVENT THE ENTRANCE OF DIRT, DEBRIS, ETC.
- B. EACH SYSTEM OF PIPING SHALL BE FLUSHED (FOR ALL PURPOSE OF MOVING DIRT DEBRIS, ETC. FROM PIPING) FOR AS LONG A TIME AS IS REQUIRED TO THOROUGHLY CLEAN THE SYSTEM. CLEANING OF SYSTEM SHALL HAPPEN PRIOR TO CONNECTION TO BASE BUILDING SYSTEM. CLEANING OF THE SYSTEM IS TO BE PERFORMED BY BASE BUILDING APPROVED VENDOR IN THE PRESENCE OF BUILDING PERSONNEL PRIOR TO SYSTEM ACTIVATION.
- C. BUILDING DEPARTMENT INSPECTION AND SIGN-OFF SHALL BE THE RESPONSIBILITY OF THE SPRINKLER CONTRACTOR. THE WORK SHALL NOT BE CONSIDERED COMPLETE UNTIL THE ORIGINAL OF THE BUILDING DEPARTMENT 505 CARD IS PRODUCED.

16. FIRE DEPARTMENT SIAMSEGE CONNECTION

- A. BRASS FLUSH WALL TYPE PAD MOUNTED EXTERIOR FIRE DEPARTMENT CONNECTION WITH BRASS ESCUTCHEON PLATE, WITH A SILL COCK, AND A MINIMUM OF TWO 2 1/2 IN. CONNECTIONS THREADED TO MATCH THOSE ON THE LOCAL FIRE PROTECTION SERVICE, WITH POLISHED BRASS CAPS AND CHAINS. PROVIDE ESCUTCHEON WITH INTEGRAL RAISED LETTERS "STANDPIPE AND AUTOMATIC SPRINKLER". PROVIDE CONNECTION WITH A SILING CHECK VALVE. INSTALAT AN AUTOMATIC BALL DRIP BETWEEN FIRE DEPARTMENT CONNECTION AND CHECK VALVE TO DISCHARGE OVER AN INDIRECT DRAIN CONNECTION OR TO THE OUTSIDE. WHEN ADDITIONAL ALARM VALVE IS INSTALLED, ADDITIONAL CHECK VALVE IS NOT REQUIRED. CHECK VALVES MUST BE INSTALLED IN ACCORDANCE WITH THEIR VERTICAL OR HORIZONTAL LISTING.

17. VALVES

- A. LISTED INDICATING VALVES:
1. GATE: 084Y, 350 PSI WATER WORKING PRESSURE (WWP).
2. BUTTERFLY: GEAR OPERATED, INDICATING TYPE, 350 PSI WATER WORKING PRESSURE. BUTTERFLY VALVES ARE TO BE INSTALLED IN A MANNER THAT DOES NOT INTERFERE WITH THE OPERATION OF ANY SYSTEM COMPONENT.
3. BALL (INSPECTORS TEST AND DRAIN ONLY): IRON BODY, STAINLESS STEEL TRIM, FOR 300 PSI SERVICE, INDICATING TYPE.
4. BALL AND BUTTERFLY VALVES SHALL NOT BE USED ON INCOMING WATER SERVICE, AND ON THE SUCTION SIDE OF EITHER THE FIRE PUMP OR JOCKEY PUMP.
- B. CHECK VALVES: SILING TYPE, RUBBER FACED OR WAFER TYPE SPRING LOADED BUTTERFLY CHECK VALVE, 350 LB. WATER WORKING PRESSURE (WWP).
- C. ALARM CHECK: IRON BODY, BRONZE MOUNTED, VARIABLE PRESSURE TYPE WITH RETARDING CHAMBER, PROVIDE BASIC TRIMMINGS FOR ALARM TEST BY PASS, GAGES, DRAIN CONNECTIONS, MOUNTING SUPPORTS FOR RETARDING CHAMBER, AND DRIP FUNNEL. PROVIDE PRESSURE SENSITIVE ALARM SWITCH TO ACTUATE THE FIRE ALARM SYSTEM.
- D. DRAIN VALVES: THREADED BRONZE ANGLE, GLOBE, BALL OR BUTTERFLY, 600 PSI, WATER OR GAS (WOG) EQUIPPED WITH REDUCER AND HOSE CONNECTION WITH CAP OR CONNECTED TO A DRAIN LINE.
- E. SELF-CONTAINED TEST AND DRAIN VALVE:
1. DUCTILE IRON BODY WITH BRONZE "DRAIN" AND "TEST" BONNETS. ACRYLIC SIGHT GLASS FOR VIEWING TEST FLOW. VARIOUS SIZED ORIFICE INSERTS TO SIMULATE FLOW THROUGH DIAMETER SPRINKLERS, ONE-QUARTER TURN LOCKING LUG OUTLETS FOR PLAIN END PIPE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION.
2. BRONZE BODY, WITH CHROME PLATED BRONZE BALL, BRASS STEM, STEEL HANDLE, TEFLON SEAT AND SIGHT GLASSES. PROVIDE VALVE WITH THREE POSITION INDICATOR PLATE (OFF, TEST, AND DRAIN), TAPPING FOR PRESSURE GAGE AND VARIOUS OTHER ORIFICE INSERTS TO SIMULATE FLOW THROUGH (1/2 IN.) DIAMETER SPRINKLERS.
- F. DRY PIPE VALVE: FLANGED, IRON BODY. PROVIDE BASIC TRIMMINGS FOR ALARM TEST BYPASS, WATER FLOW ALARM, HIGH AND LOW PRESSURE SWITCHES, GAGES, DRAIN CONNECTIONS, DRIP FUNNEL, ACCELERATOR AND NECESSARY PIPE, FITTINGS AND ACCESSORIES REQUIRED TO PROVIDE A COMPLETE INSTALLATION.
- G. STANDPIPE HOSE VALVE: 2 1/2 IN. SCREWED, BRASS HOSE ANGLE VALVE, 350 PSI WATER WORKING PRESSURE, WWP, MALE HOSE THREADS SAME AS LOCAL FIRE DEPARTMENT SERVICE, 2 1/2 IN. X 1 1/2 IN. REDUCER, AND WITH PERMANENTLY ATTACHED POLISHED BRASS CAP AND CHAIN. PROVIDE FOR VALVES INSTALLED IN A CABINET A 2 1/2 IN. ATTACHED CAP AND CHAIN AND A 2 1/2 IN. X 1 1/2 IN. REDUCER PLACED IN CABINET.
- H. STANDPIPE HOSE VALVE CABINETS: CABINETS SHALL BE WHITE GLOSSY POLYESTER COATED 20 GAGE STEEL WITH CONTINUOUS STEEL HINGE WITH BRASS FIN, RECESSED TYPE 24 X 24 X 10 IN. DOUBLE CHECK BACKFLOW PREVENTION ASSEMBLY. PROVIDE TWO INDEPENDENT CHECK VALVES WITH 084Y SHUT OFF VALVES, BALL TYPE TEST COCKS. MAXIMUM FRICTION LOSS THROUGH ASSEMBLY SHALL NOT EXCEED 5 PSI AT DESIGN FLOW. UNIT SHALL BE FUNCTIONAL IN VERTICAL OR HORIZONTAL POSITION, RATED FOR 175 PSI WORKING PRESSURE. CHECK VALVE ASSEMBLY SHALL BE IN ACCORDANCE WITH ALIWA CLASS D. DOUBLE CHECK BACKFLOW PREVENTION ASSEMBLY SHALL BE R1 APPROVED, ASSE APPROVED AND UL LISTED.



Key Plan (not to scale)

7.	6/01/2021	ISSUED FOR BID
6.	5/07/2021	RE-ISSUED FOR BUILDING PERMIT REVIEW
5.	2/01/2021	ISSUED FOR BUILDING PERMIT REVIEW
4.	10/14/2020	ISSUED FOR PLANNING BOARD REVIEW
3.	9/28/2020	RESUBMITTED FOR ZONING REVIEW
2.	8/28/2020	ISSUED FOR PRELIMINARY DOB REVIEW
1.	1/10/2020	ISSUED FOR DD ESTIMATE
No.	Date	Revision/Submission
STRUCTURAL & SITE CIVIL ENGINEER		
DOMINICK R PILLA ASSOCIATES, P.C. 145 MAIN STREET NYACK, NY 10960 945-727-7793		
MEP ENGINEER		
JMY CONSULTING ENGINEERING, P.C. 37 W. 58 STREET, STE 705 NEW YORK, NY 10015 212-662-9855		
ROOFING CONSULTANT		
WATSKY ASSOCIATES 20 MADISON AVENUE VALHALLA, NY 10966 914-945-3450		
Stamp		

Project Title

IONA PREPARATORY SCHOOL
ADDITION AND ALTERATION TO THE
PAUL VERNI FINE ARTS CENTER

Project Address

IONA PREPARATORY SCHOOL
255 Wilmot Road
New Rochelle, NY 10804


















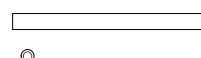


Drawing Title

SPRINKLER
SPECIFICATIONS I

Scale	Job No.	Date	Drawing No.
NTS	1818	04/03/2019	SP-101
Drawn			

Peter Gisolfi Associates
Architects - Landscape Architects, LLP
588 Warburton Avenue
Hastings on Hudson, NY 10706
914 478 3677

PETER GISOLFI ASSOCIATES

SYMBOL LIST			
	NEW SPRINKLER PIPING		SEE DRAWING NOTE 3
	NEW CONCEALED SPRINKLER HEAD (NEW TO SYSTEM)		CHECK VALVE
	NEW UPRIGHT SPRINKLER HEAD (NEW TO SYSTEM)		OS&Y VALVE
	NEW PENDANT SPRINKLER HEAD (NEW TO SYSTEM)		
	BOTTOM OF PIPE BOTTOM OF FITTING		CAPPED SPRINKLER PIPE
	NEW TAMPER SWITCH		CONNECT TO EXISTING PIPE
	NEW FLOW SWITCH		HYDRAULIC NODE POINT #1
TYP.	TYPICAL	N	NEW
	BUTTERFLY VALVE		HVAC EQUIPMENT TO BE AVOIDED
	PIPE CONTINUATION		LIGHTING FIXTURES
	HOSE VALVE CONNECTION		TEST TEE

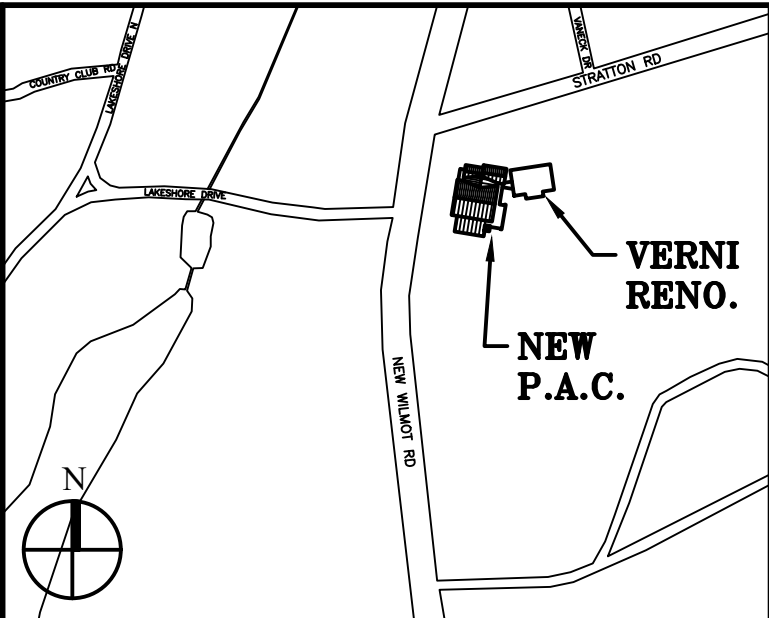
DESIGN CRITERIA INFORMATION	
DESCRIPTION OF HAZARD=	LIGHT HAZARD
OCCUPANCY=	A-1
DESIGN AREA OF WATER APPLICATION=	1080 SQ-FT
SPRINKLER COVERAGE=	225 SQ-FT
PIPE MATERIAL=	SCHED 40 WET STEEL
SPRINKLER TYPE UTILITY AREA=	UPRIGHT
SPRINKLER TYPE CEILING AREA=	CONCEALED
SPRINKLER TYPE BELOW OBSTRUCTIONS=	PENDANT
K-FACTOR=	5.6
ORIFICE=	1/2"
HMD MINIMUM RESIDUAL PRESSURE:	1 FSI
MINIMUM DESIRED DENSITY:	0.1 GPM/FT2
HYDRAULICALLY MOST DEMANDING SPRINKLER NODE (14):	1.91 FSI, 15.15 GPM
DESIGN CRITERIA REQUIREMENTS BASED ON:	
• NYS 2020 BUILDING CODE	
• NFPA-13 & NFPA-14	
SPRINKLER SYSTEM IS HYDRAULICALLY DESIGNED	
STANDPIPE PORTION OF SYSTEM IS DESIGNED AS A CLASS III WET STANDPIPE AS PER SECTION 905.3.4 OF CHAPTER 9 OF NYS 2020 BUILDING CODE	

SPRINKLER HEAD SCHEDULE								
SYMBOL	DESCRIPTION	MANUFACTURER	MODEL	MAX COVERAGE (WIDTH x THROW)	MIN. OPERATING PRESSURE (PSI)	MAX. OPERATING PRESSURE (PSI)	TEMPERATURE RATING	REMARKS
	QUICK RESPONSE UPRIGHT SPRINKLER HEAD	VIKING	VK300	STANDARD COVERAGE 15'x15'	7	175	ORDINARY 155 F	-
	QUICK RESPONSE PENDENT CONCEALED SPRINKLER HEAD	VIKING	VK462	STANDARD COVERAGE 15'x15'	7	175	ORDINARY 155 F	-
	QUICK RESPONSE PENDANT SPRINKLER HEAD	VIKING	VK302	STANDARD COVERAGE 15'x15'	7	175	ORDINARY 155 F	-

HANGER SPACING	
PIPING SIZE INCHES	MAX. SPACING FEET
1" AND UNDER (THREADED)	8 FEET
1-1/4" AND 1-1/2" (THREADED)	9 FEET
2" THREADED	10 FEET

SPRINKLER HEAD SPACING NOTES:
- MINIMUM DISTANCE BETWEEN HEADS - 6'-0"
- MAXIMUM DISTANCE BETWEEN HEADS - 15'-0"
- MAXIMUM DISTANCE FROM WALLS - 7'-6" (UNLESS SMALL ROOM RULE APPLIES)
- MINIMUM DISTANCE FROM WALLS - 0'-4"

HANGER SCHEDULE	
PIPING SIZE	ROD SIZE
2-1/2" AND 3"	1/2"
4" AND 5"	5/8"
6"	3/4"
8"	1"



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1.	1/10/2020	ISSUED FOR DD ESTIMATE
No.	Date	Revision/Submission
STRUCTURAL & SITE CIVIL ENGINEER		
DOMINICK R. PILLA		
ASSOCIATES, P.C.		
145 MAIN STREET		
NYACK, NY 10960		
845-727-7793		
MEP ENGINEER		ROOFING CONSULTANT
JMY CONSULTING		WATSKY ASSOCIATES
ENGINEERING, P.C.		20 MADISON AVENUE
37 W. 58 STREET, STE 703		VALHALLA, NY 10995
NEW YORK, NY 10019		914-945-3450
212-862-9855		

Stamp

Project Title
IONA PREPARATORY SCHOOL
ADDITION AND ALTERATION TO THE
PAUL VERNI FINE ARTS CENTER

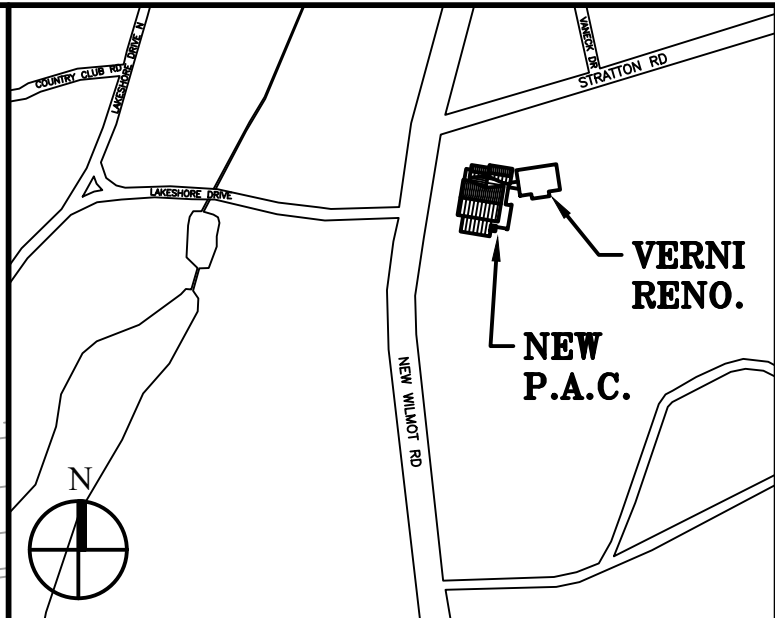
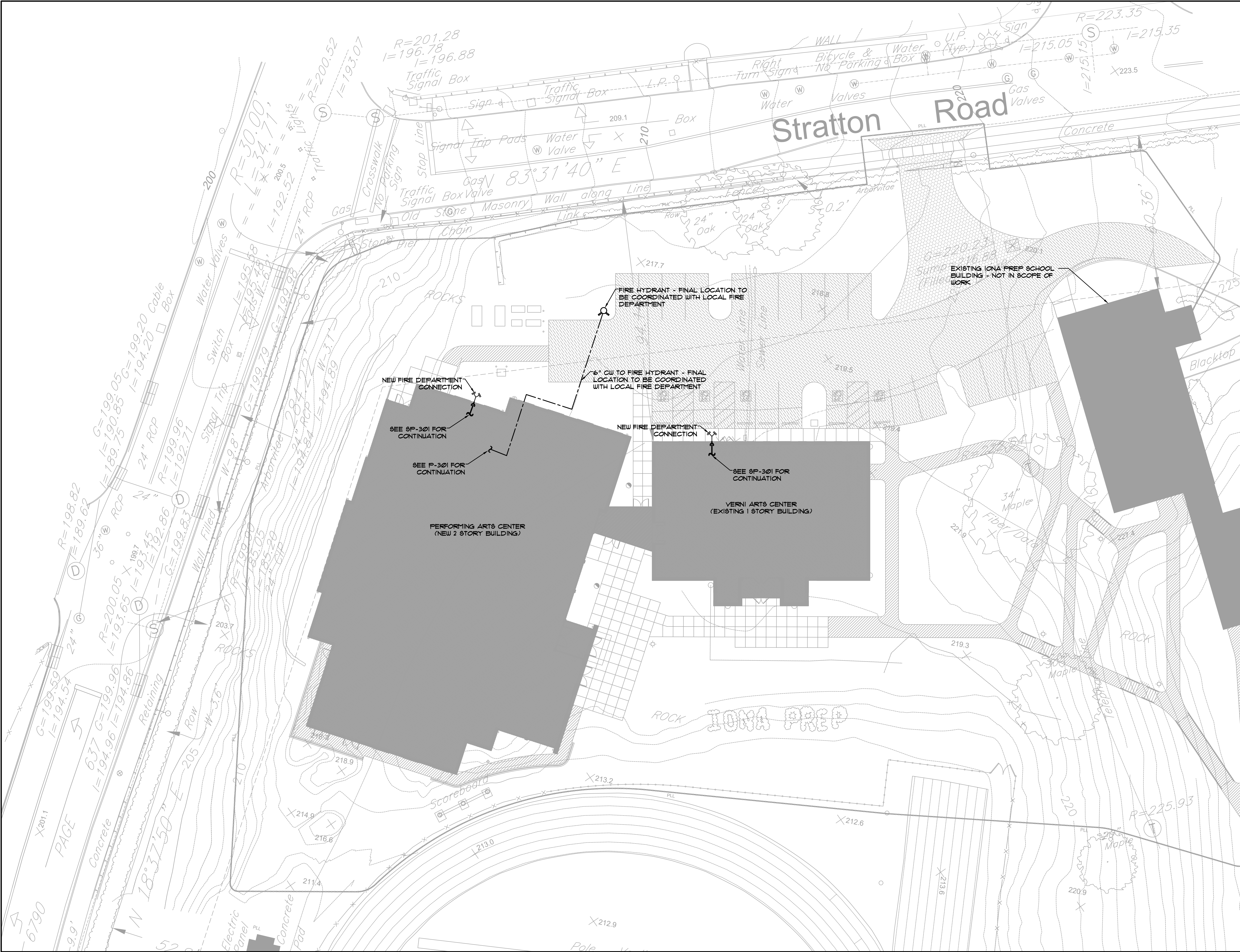
Project Address
IONA PREPARATORY SCHOOL
255 Wilmot Road
New Rochelle, NY 10804

Drawing Title
SPRINKLER
SPECIFICATIONS II

Scale	Job No.	Date	Drawing No.
NTS	1818	04/03/2019	SP-102

Drawn

Peter Gisolfi Associates
Architects Landscape Architects, LLP
588 Warburton Avenue
Hastings on Hudson, NY 10706
914 478 3677
PETER GISOLFI ASSOCIATES



Key Plan (not to scale)

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STRUCTURAL & SITE CIVIL ENGINEER		
DOMINICK R. PILLA		
ASSOCIATES, P.C.		
145 MAIN STREET		
NYACK, NY 10960		
845-727-7793		
MEP ENGINEER		
JMY CONSULTING		
ENGINEERING, P.C.		
37 W. 58 STREET, STE 703		
NEW YORK, NY 10019		
212-862-9855		
ROOFING CONSULTANT		
WATSKY ASSOCIATES		
20 MADISON AVENUE		
VALHALLA, NY 10986		
914-948-3450		

Stamp

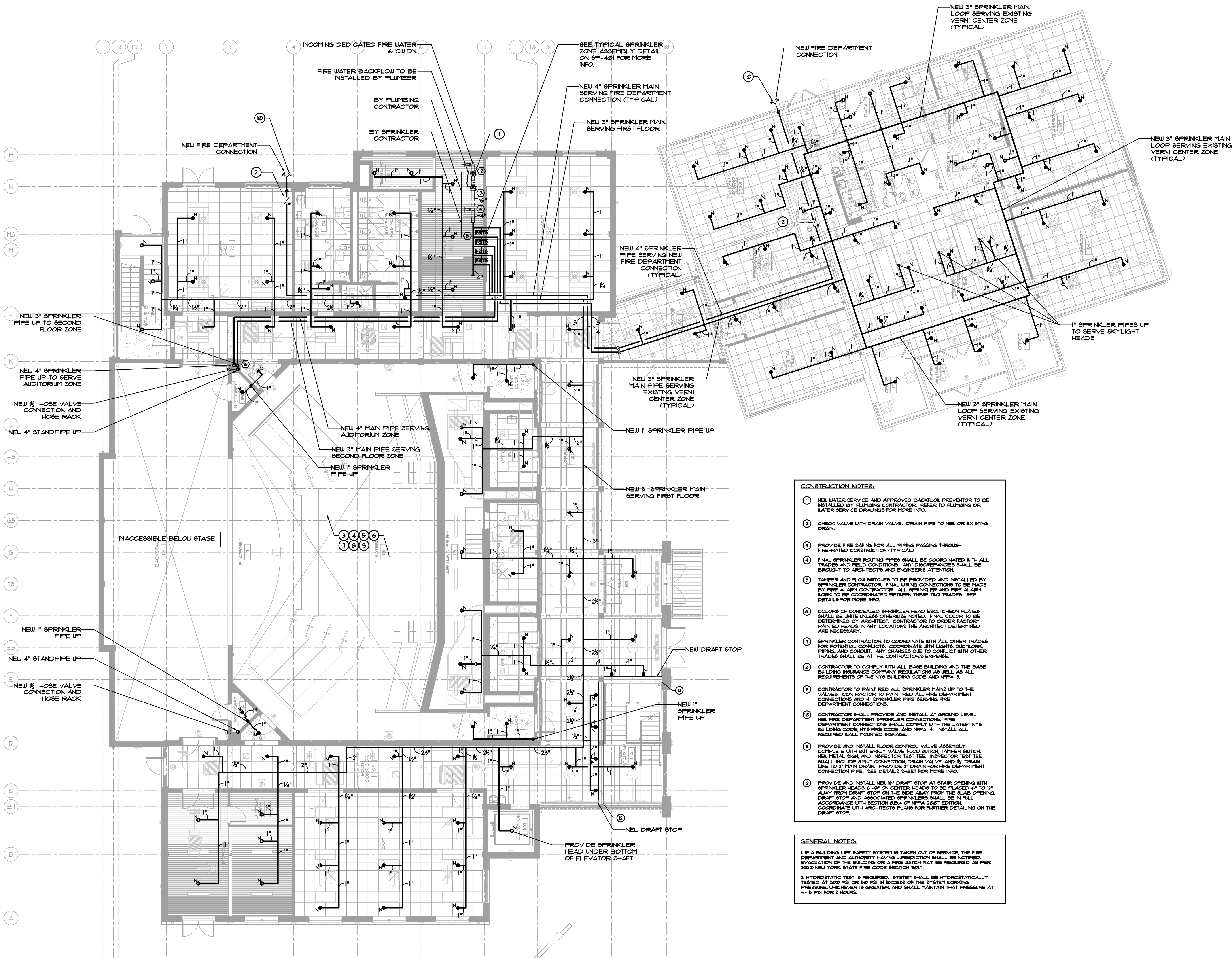
Project Title
IONA PREPARATORY SCHOOL
ADDITION AND ALTERATION TO THE
PAUL VERNI FINE ARTS CENTER

Project Address
IONA PREPARATORY SCHOOL
255 Wilmot Road
New Rochelle, NY 10804

Drawing Title
SPRINKLER SITE PLAN

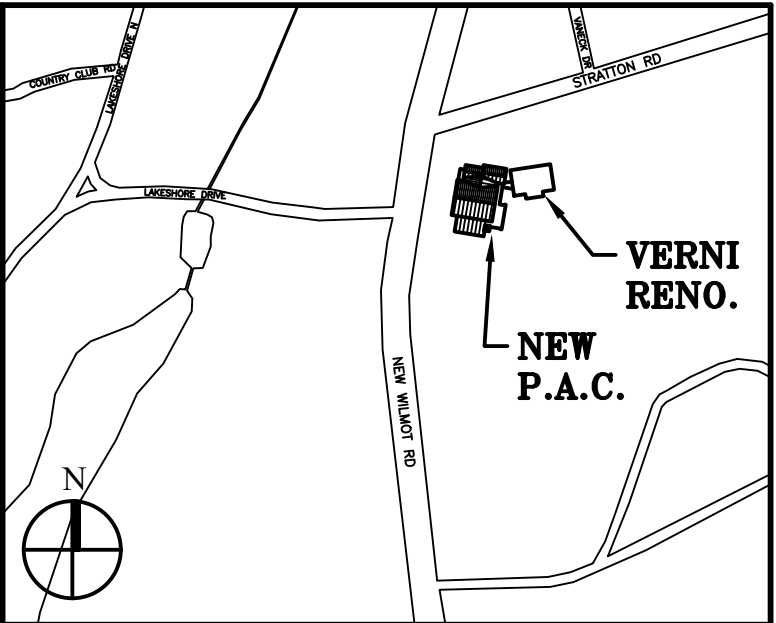
Scale	Job No.	Date	Drawing No.
3/4"=1'-0"	1618	04/03/2019	SP-103

Drawn
Peter Gisolfi Associates
Architects Landscape Architects, LLP
566 Warburton Avenue
Hastings on Hudson, NY 10706
914 478 3677
PETER GISOLFI ASSOCIATES



- CONSTRUCTION NOTES:**
- NEW WATER SERVICE AND APPROVED BACKFLOW PREVENTOR TO BE INSTALLED BY PLUMBING CONTRACTOR. REFER TO PLUMBING OR WATER SERVICE DRAWINGS FOR MORE INFO.
 - CHECK VALVE WITH DRAIN VALVE. DRAIN PIPE TO NEW OR EXISTING DRAIN.
 - PROVIDE FIRE SAFING FOR ALL PIPING PASSING THROUGH FIRE-RATED CONSTRUCTION (TYPICAL).
 - FINAL SPRINKLER ROUTING PIPES SHALL BE COORDINATED WITH ALL TRADES AND FIELD CONDITIONS. ANY DISCREPANCIES SHALL BE BROUGHT TO ARCHITECTS AND ENGINEER'S ATTENTION.
 - TAMPER AND FLOW SWITCHES TO BE PROVIDED AND INSTALLED BY SPRINKLER CONTRACTOR. FINAL WIRING CONNECTIONS TO BE MADE BY FIRE ALARM CONTRACTOR. ALL SPRINKLER AND FIRE ALARM WORK TO BE COORDINATED BETWEEN THESE TWO TRADES. SEE DETAILS FOR MORE INFO.
 - COLORS OF CONCEALED SPRINKLER HEAD ESCUTCHEON PLATES SHALL BE WHITE UNLESS OTHERWISE NOTED. FINAL COLOR TO BE DETERMINED BY ARCHITECT. CONTRACTOR TO ORDER FACTORY PAINTED HEADS IN ANY LOCATIONS THE ARCHITECT DETERMINED ARE NECESSARY.
 - SPRINKLER CONTRACTOR TO COORDINATE WITH ALL OTHER TRADES FOR POTENTIAL CONFLICTS. COORDINATE WITH LIGHTS, DUCTWORK, PIPING, AND CONDUIT. ANY CHANGES DUE TO CONFLICT WITH OTHER TRADES SHALL BE AT THE CONTRACTOR'S EXPENSE.
 - CONTRACTOR TO COMPLY WITH ALL BASE BUILDING AND THE BASE BUILDING INSURANCE COMPANY REGULATIONS AS WELL AS ALL REQUIREMENTS OF THE NYS BUILDING CODE AND NFPA 13.
 - CONTRACTOR TO PAINT RED ALL SPRINKLER MAINS UP TO THE VALVES. CONTRACTOR TO PAINT RED ALL FIRE DEPARTMENT CONNECTIONS AND 4" SPRINKLER PIPE SERVING FIRE DEPARTMENT CONNECTIONS.
 - CONTRACTOR SHALL PROVIDE AND INSTALL AT GROUND LEVEL NEW FIRE DEPARTMENT SPRINKLER CONNECTIONS. FIRE DEPARTMENT CONNECTIONS SHALL COMPLY WITH THE LATEST NYS BUILDING CODE, NYS FIRE CODE, AND NFPA 14. INSTALL ALL REQUIRED WALL MOUNTED SIGNAGE.
 - PROVIDE AND INSTALL FLOOR CONTROL VALVE ASSEMBLY COMPLETE WITH BUTTERFLY VALVE, FLOW SWITCH, TAMPER SWITCH, NEW METAL SIGN AND INSPECTOR TEST TEE. INSPECTOR TEST TEE SHALL INCLUDE SIGHT CONNECTION, DRAIN VALVE, AND 1/2" DRAIN LINE TO 2" MAIN DRAIN. PROVIDE 2" DRAIN FOR FIRE DEPARTMENT CONNECTION PIPES. SEE DETAILS SHEET FOR MORE INFO.
 - PROVIDE AND INSTALL NEW 1/2" DRAFT STOP AT STAIR OPENING WITH SPRINKLER HEADS 6"-12" ON CENTERS. HEADS TO BE PLACED 6" TO 12" AWAY FROM DRAFT STOP ON THE SIDE AWAY FROM THE SLAB OPENING. DRAFT STOP AND ASSOCIATED SPRINKLERS SHALL BE IN FULL ACCORDANCE WITH SECTION 8.3.4 OF NFPA 2001 EDITION. COORDINATE WITH ARCHITECT'S PLANS FOR FURTHER DETAILING ON THE DRAFT STOP.

- GENERAL NOTES:**
- IF A BUILDING LIFE SAFETY SYSTEM IS TAKEN OUT OF SERVICE, THE FIRE DEPARTMENT AND AUTHORITY HAVING JURISDICTION SHALL BE NOTIFIED. EVACUATION OF THE BUILDING OR A FIRE WATCH MAY BE REQUIRED AS PER 2020 NEW YORK STATE FIRE CODE SECTION 901.7.
 - HYDROSTATIC TEST IS REQUIRED. SYSTEM SHALL BE HYDROSTATICALLY TESTED AT 200 PSI OR 300 PSI IN EXCESS OF THE SYSTEM WORKING PRESSURE, WHICHEVER IS GREATER, AND SHALL MAINTAIN THAT PRESSURE AT 1/2" D PSI FOR 2 HOURS.



Key Plan (not to scale)

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1.	1/10/2020	ISSUED FOR DD ESTIMATE
No.	Date	Revision/Submission
STRUCTURAL & SITE CIVIL ENGINEER		
DOMINICK R. PILLA		
ASSOCIATES, P.C.		
145 MAIN STREET		
NYACK, NY 10960		
945-727-7793		
MEP ENGINEER		
JMY CONSULTING		
ENGINEERING, P.C.		
37 W. 58 STREET, STE 703		
NEW YORK, NY 10019		
212-662-9855		
ROOFING CONSULTANT		
WATSKY ASSOCIATES		
20 MADISON AVENUE		
VALHALLA, NY 10986		
914-948-3450		
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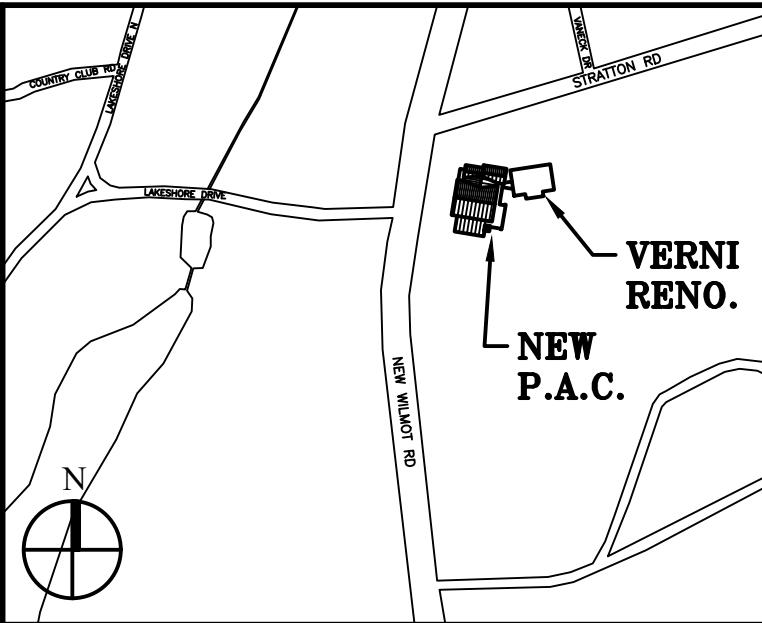
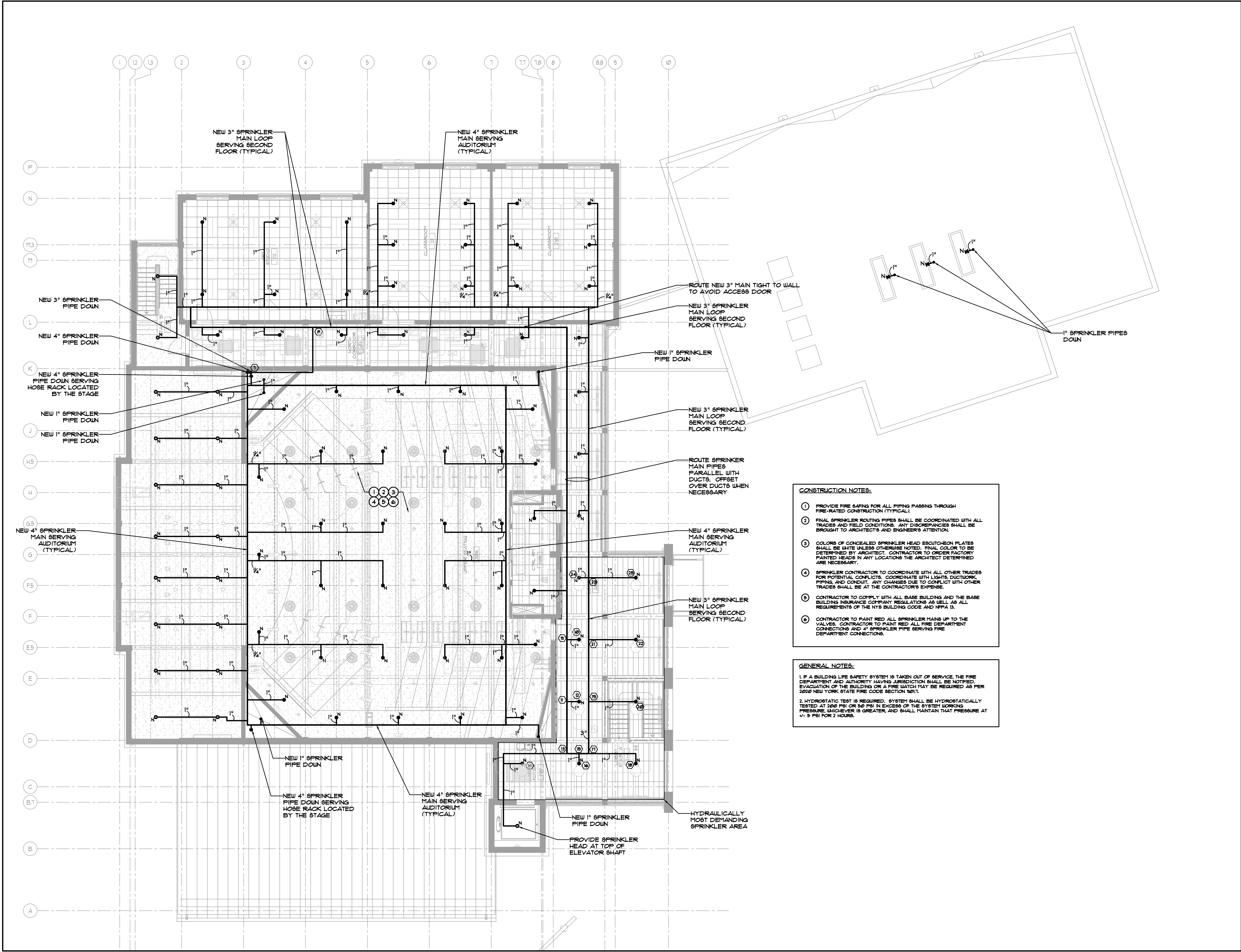
Project Title
**IONA PREPARATORY SCHOOL
ADDITION AND ALTERATION TO THE
PAUL VERNI FINE ARTS CENTER**

Project Address
**IONA PREPARATORY SCHOOL
255 Wilmet Road
New Rochelle, NY 10804**

Drawing Title
**FIRST FLOOR SPRINKLER
CONSTRUCTION PLAN**

Scale	Job No.	Date	Drawing No.
1/8"=1'-0"	1618	04/03/2019	SP-301

Drawn
Peter Gisolfi Associates
Architects Landscape Architects, LLP
588 Warburton Avenue
Hastings on Hudson, NY 10706
914 478 3677
PETER GISOLFI ASSOCIATES



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No. Date Revision/Submission		
STRUCTURAL & SITE CIVIL ENGINEER		
DOMINICK R. PILLA		
ASSOCIATES, P.C.		
145 MAIN STREET		
NYACK, NY 10960		
945-727-7793		
MEP ENGINEER		ROOFING CONSULTANT
JMY CONSULTING		WATSKY ASSOCIATES
ENGINEERING, P.C.		20 MADISON AVENUE
37 W. 58 STREET, STE 703		VALHALLA, NY 10996
NEW YORK, NY 10019		914-945-3450
212-862-9855		

Stamp

Project Title
IONA PREPARATORY SCHOOL
ADDITION AND ALTERATION TO THE
PAUL VERNI FINE ARTS CENTER

Project Address
IONA PREPARATORY SCHOOL
255 Wilmet Road
New Rochelle, NY 10804

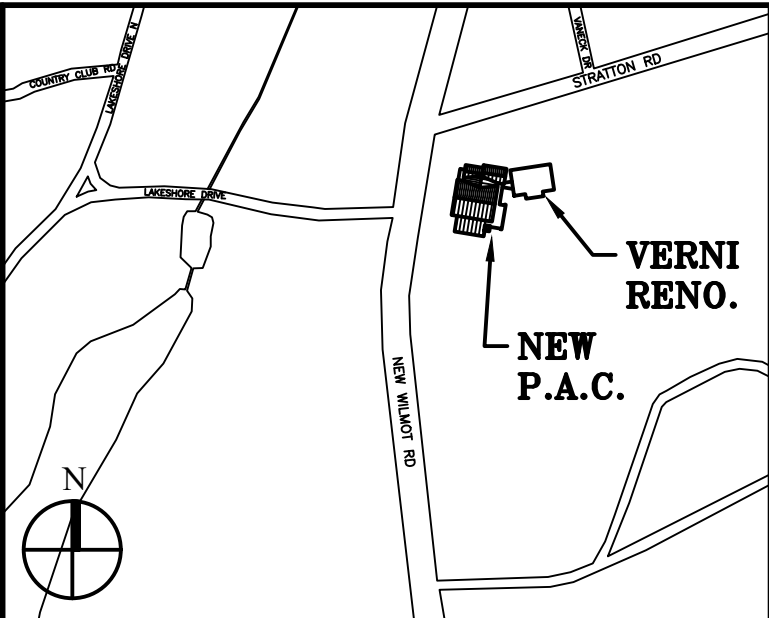
Drawing Title
SECOND FLOOR SPRINKLER
CONSTRUCTION PLAN

Scale	Job No.	Date	Drawing No.
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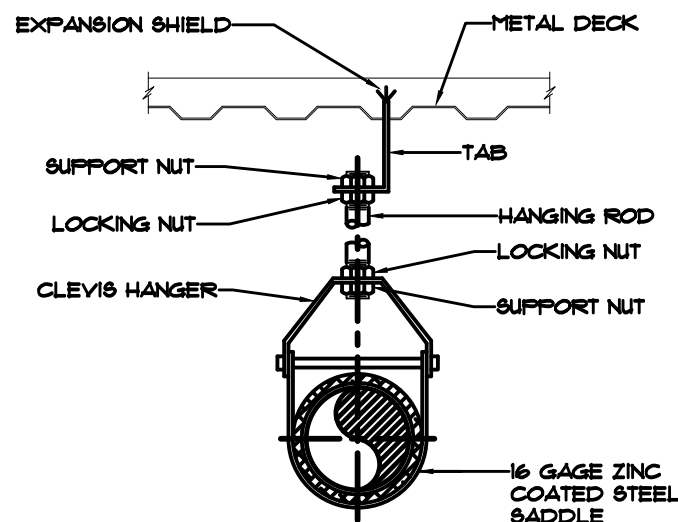
Drawn
Peter Gisolfi Associates
Architects Landscape Architects, LLP
566 Warburton Avenue
Hastings on Hudson, NY 10706
914 478 3677
PETER GISOLFI ASSOCIATES

- CONSTRUCTION NOTES:
1. PROVIDE FIRE SAFING FOR ALL PIPING PASSING THROUGH FIRE-RATED CONSTRUCTION (TYPICAL).
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 6. CONTRACTOR TO PAINT RED ALL SPRINKLER MAINS UP TO THE VALVES. CONTRACTOR TO PAINT RED ALL FIRE DEPARTMENT CONNECTIONS AND 4" SPRINKLER PIPE SERVING FIRE DEPARTMENT CONNECTIONS.

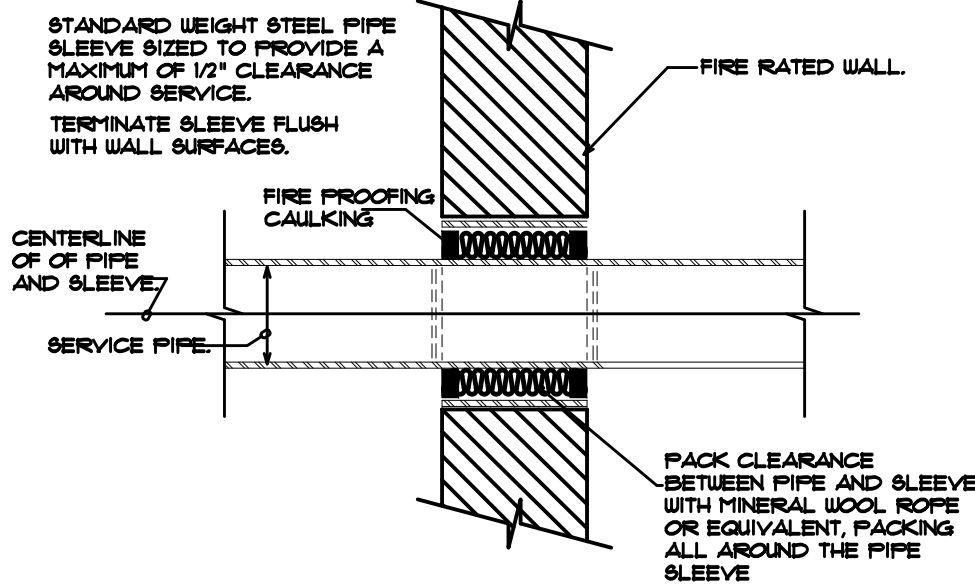
- GENERAL NOTES:
1. IF A BUILDING LIFE SAFETY SYSTEM IS TAKEN OUT OF SERVICE, THE FIRE DEPARTMENT AND AUTHORITY HAVING JURISDICTION SHALL BE NOTIFIED. EVACUATION OF THE BUILDING OR A FIRE WATCH MAY BE REQUIRED AS PER 2022 NEW YORK STATE FIRE CODE SECTION 901.1.
 2. HYDROSTATIC TEST IS REQUIRED. SYSTEM SHALL BE HYDROSTATICALLY TESTED AT 200 PSI OR 50 PSI IN EXCESS OF THE SYSTEM WORKING PRESSURE, WHICHEVER IS GREATER, AND SHALL MAINTAIN THAT PRESSURE AT 1/2-5 PSI FOR 2 HOURS.



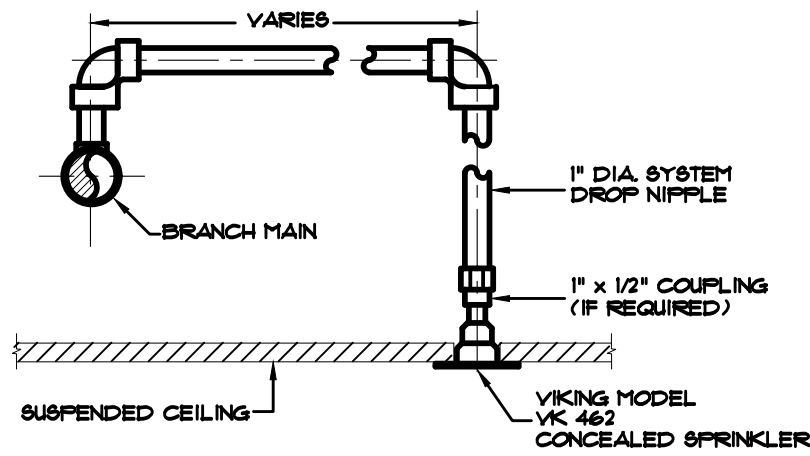
Key Plan (not to scale)



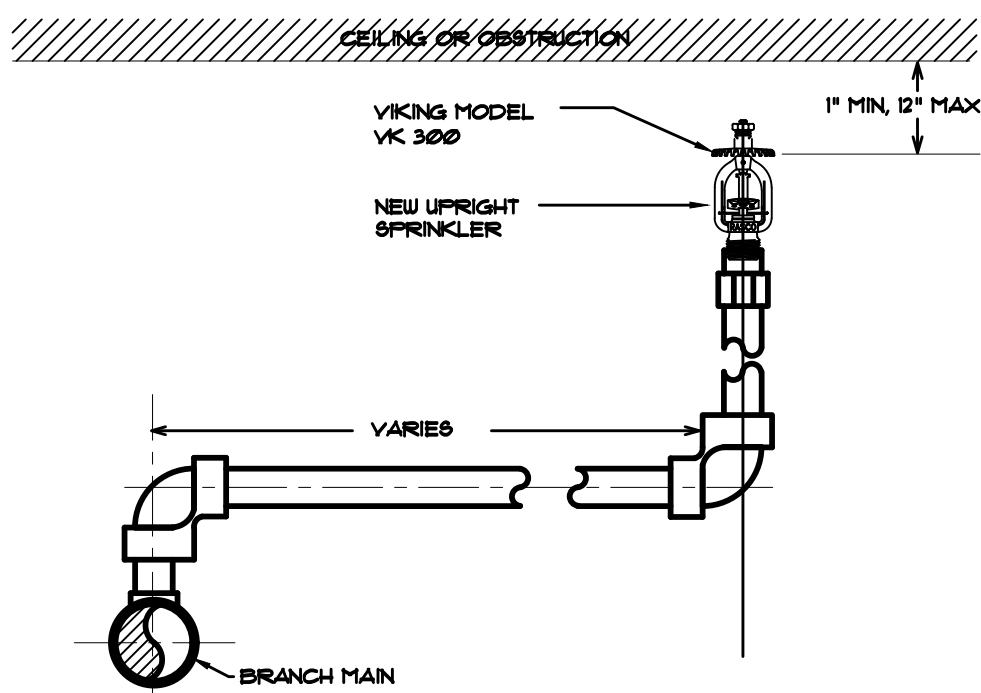
TYPICAL PIPE HANGING DETAIL
NOT TO SCALE



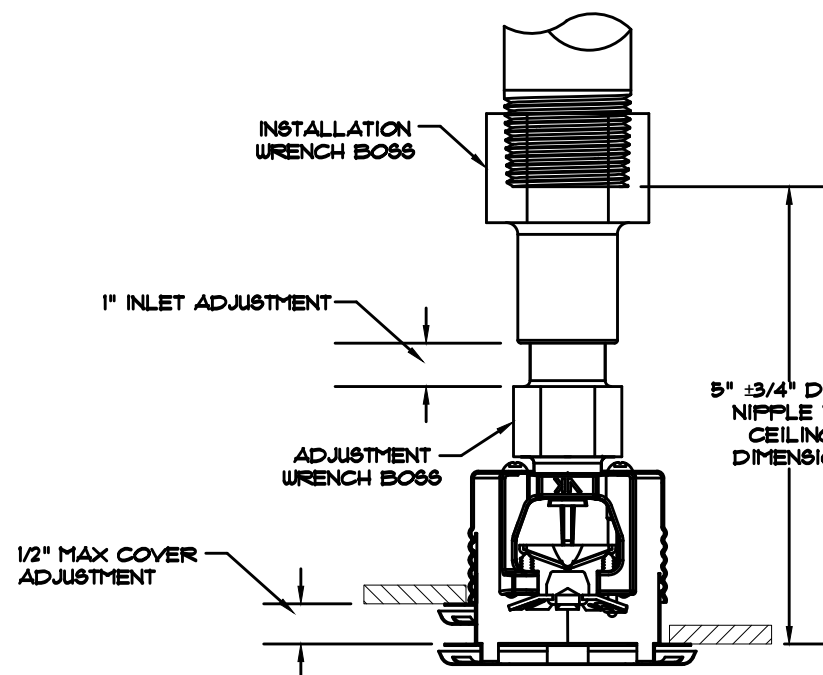
DETAIL OF PIPE THROUGH RATED WALL
NOT TO SCALE



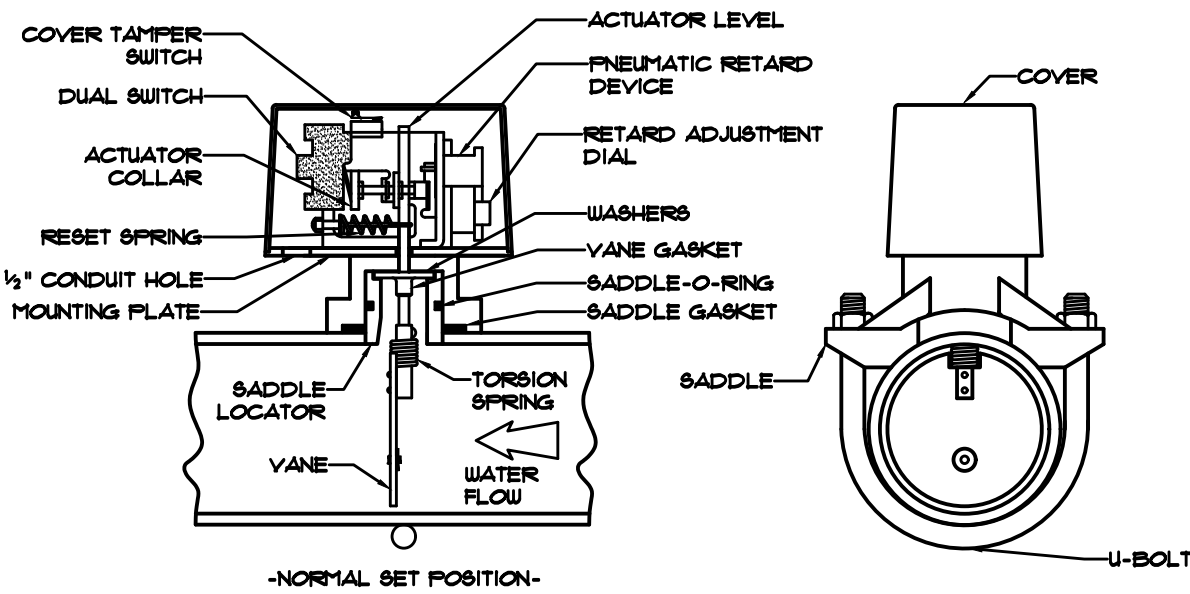
ARM OVER DETAIL
NOT TO SCALE



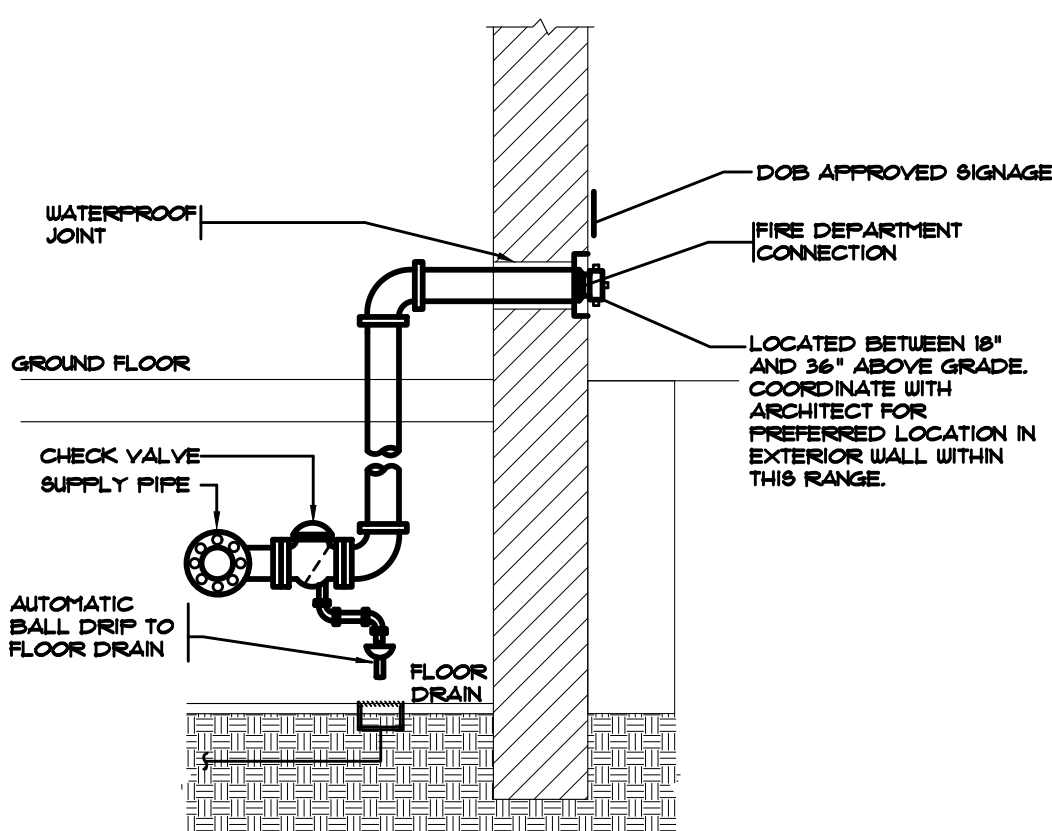
ARM OVER NEW BRANCH PIPE
NOT TO SCALE



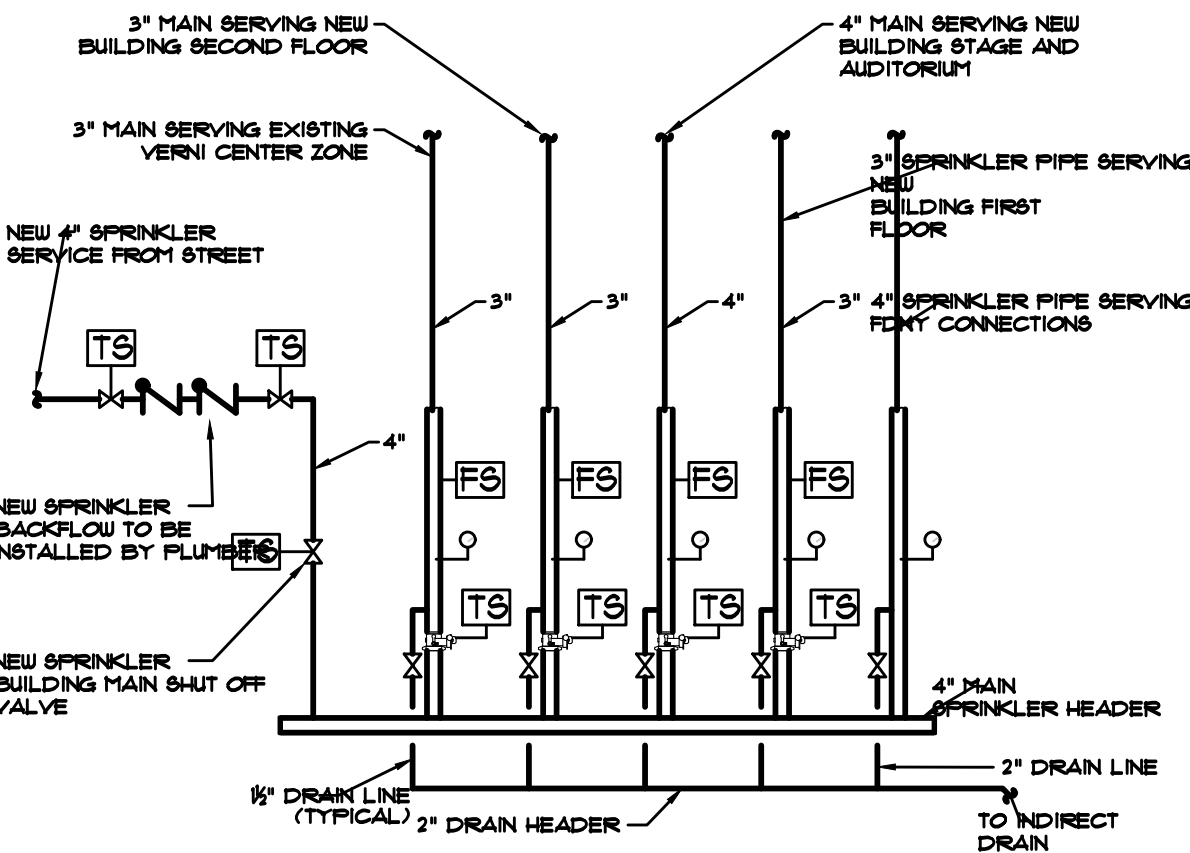
CONCEALED SPRINKLER HEAD
VIKING - MODEL VK-462
NOT TO SCALE



WATERFLOW SWITCH MOUNTING ASSEMBLY DETAIL
NOT TO SCALE



FIRE DEPARTMENT CONNECTION DETAIL
NOT TO SCALE



TYPICAL SPRINKLER ZONE ASSEMBLY
NOT TO SCALE

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STRUCTURAL & SITE CIVIL ENGINEER		
DOMINICK R. PILLA		
ASSOCIATES, P.C.		
145 MAIN STREET		
STATEN ISLAND, NY 10314		
945-727-7793		
MEP ENGINEER		
JMY CONSULTING		
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37 W. 58 STREET, STE 703		
NEW YORK, NY 10019		
212-862-9855		
ROOFING CONSULTANT		
WATSKY ASSOCIATES		
20 MADISON AVENUE		
VALHALLA, NY 10995		
914-945-3450		

Stamp

Project Title
IONA PREPARATORY SCHOOL
ADDITION AND ALTERATION TO THE
PAUL VERNI FINE ARTS CENTER

Project Address
IONA PREPARATORY SCHOOL
255 Wilmot Road
New Rochelle, NY 10804

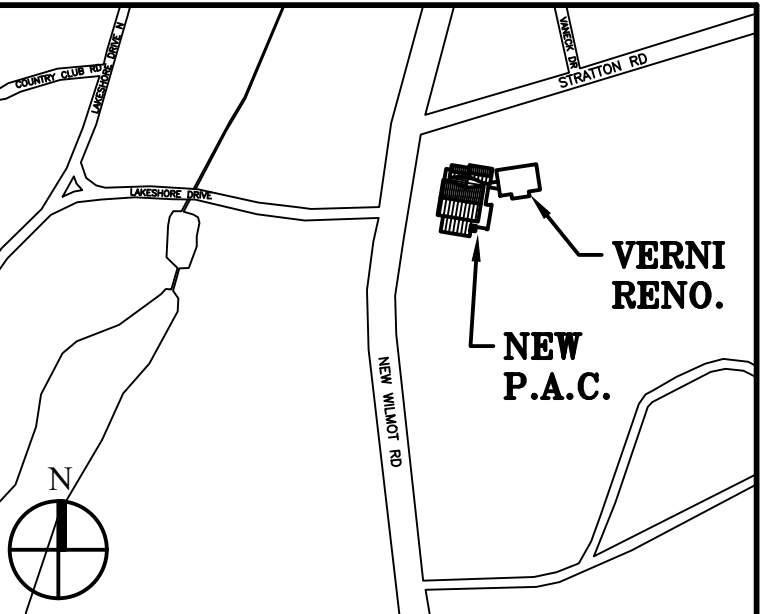
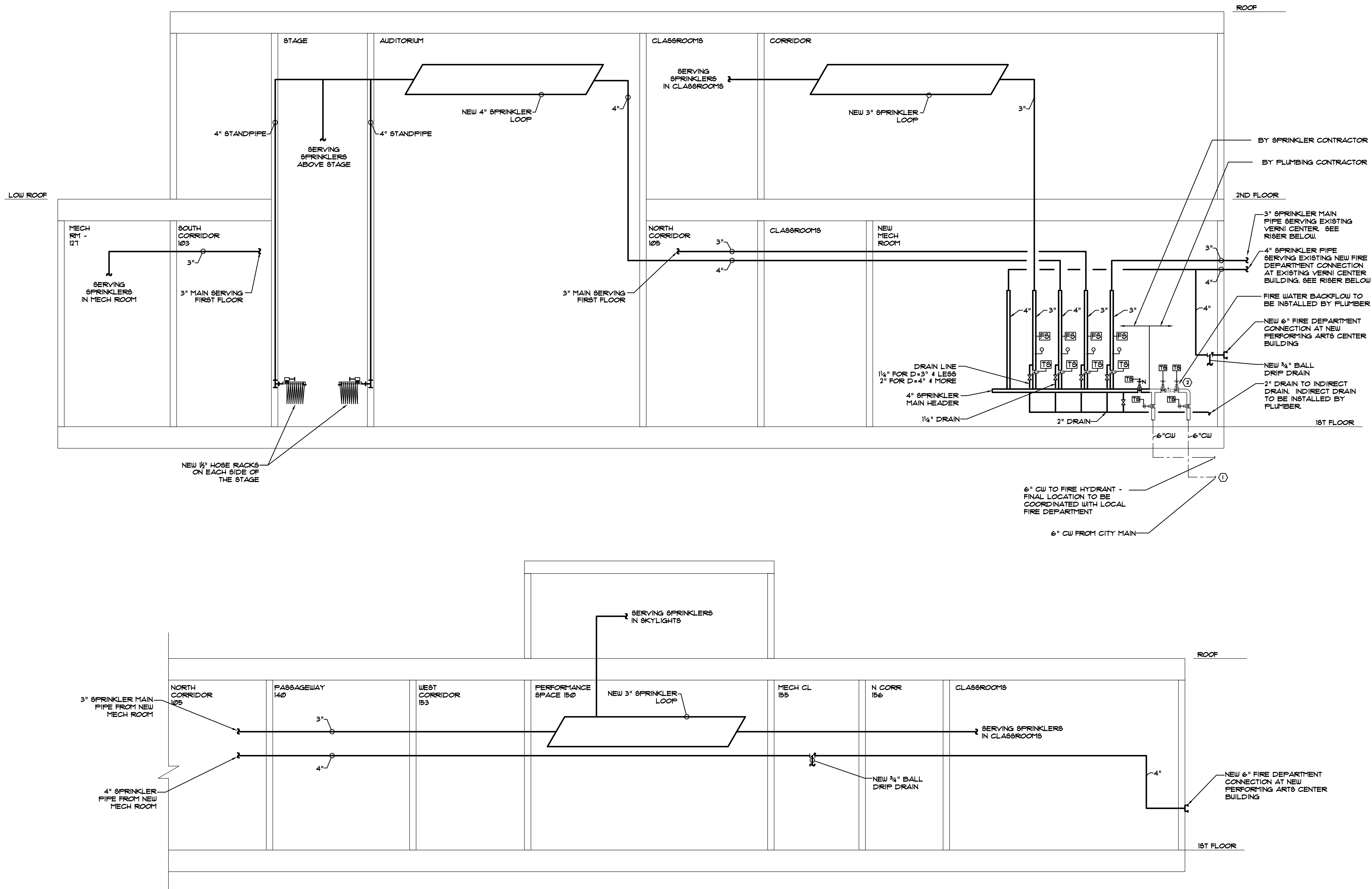
Drawing Title
SPRINKLER DETAILS

Scale	Job No.	Date	Drawing No.
NTS	1818	04/03/2019	SP-401

Drawn

Peter Gisolfi Associates
Architects Landscape Architects, LLP
588 Warburton Avenue
Hastings on Hudson, NY 10706
914 478 3877

PETER GISOLFI ASSOCIATES



Key Plan (not to scale)

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DOMINICK R. PILLA		
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145 MAIN STREET		
NYACK, NY 10960		
845-727-7793		
MEP ENGINEER		ROOFING CONSULTANT
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ENGINEERING, P.C.		20 MADISON AVENUE
37 W. 58 STREET, STE 703		VALHALLA, NY 10995
NEW YORK, NY 10019		914-945-3450
212-862-9855		

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IONA PREPARATORY SCHOOL
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Project Address
IONA PREPARATORY SCHOOL
255 Wilmot Road
New Rochelle, NY 10804

Drawing Title
SPRINKLER RISER
DIAGRAM

Scale	Job No.	Date	Drawing No.
NTS	1818	04/03/2019	SP-501

Drawn

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Architects Landscape Architects, LLP
666 Warburton Avenue
Hastings on Hudson, NY 10706
914 478 3677
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