

PLUMBING FIXTURE SCHEDULE								
TAG	SYMBOLS		FIXTURES	PLUMBING CONNECTIONS				DESCRIPTION
	PLAN	ELEVATION		WASTE	VENT	COLD WATER	HOT WATER	
RD-1			ROOF DRAIN	4"	-	-	-	JOSAM 21500 4" SERIES COATED CAST IRON ROOF DRAIN, LARGE POLYPROPYLENE LOCKING DOME, WELJOC® NON-PUNCTURING CLAMP RING WITH INTEGRAL GRAVEL STOP, LARGE SUMP WITH WIDE ROOF FLANGE AND BOTTOM OUTLET.

NOTES:  
1.) REFER TO ARCHITECTURAL DRAWINGS FOR FIXTURE SPECIFICATIONS, QUANTITY, LOCATIONS, & MOUNTING HEIGHTS.

**SYMBOLS AND ABBREVIATIONS**

SYMBOL	ABBREVIATION	DESCRIPTION
-	AFF	ABOVE FINISHED FLOOR
-	AHC	ABOVE HUNG CEILING
-	BFP	BACK FLOW PREVENTOR
●	-	BALL VALVE
D	-	BASKET STRAINER
	-	BUTTERFLY VALVE
	-	CHECK VALVE
	-	CIRCUIT SETTER
	CODP	CLEAN OUT DECK PLATE
-	CW	COLD WATER
	-	CONCENTRIC REDUCER
	DCV	DOUBLE CHECK VALVE - BFP
	-	ECCENTRIC REDUCER
C	-	ELBOW DOWN
O	-	ELBOW UP
-	DEM.	EXISTING TO BE REMOVED
-	EX.	EXISTING TO REMAIN
	-	FLEXIBLE CONNECTION
-	FCO	FLOOR CLEAN OUT
-	FS	FLOOR SINK
▲	-	FLOW ARROW
-	FAI	FRESH AIR INTAKE
	-	GATE VALVE
	-	GLOBE VALVE
-	HW	HOT WATER
-	HW HTR	HOT WATER HEATER
-	HWC	HOT WATER RECIRCULATION
-	LDR	LEADER
.	-	MANUAL AIR VENT
-	NEW	NEW WORK
	-	OS&Y GATE VALVE
	-	PLUG VALVE
.	-	PIPE CAP
	-	PRESSURE GAGE
	-	PRESSURE REDUCING VALVE
	-	PUMP
-	PD	PUMP DISCHARGE
-	RPZ	REDUCED PRESSURE ZONE - BFP
-	REL.	REMOVE AND RELOCATE
-	S	SANITARY
	-	SOLENOID VALVE
	-	STRAINER
-	SD	STORM DRAINAGE
O	-	TEE DOWN
O	-	TEE UP
	-	THERMOMETER
-	TYP.	TYPICAL
	-	T&P RELIEF VALVE
	-	UNION
-	V	VENT
-	VTR	VENT THROUGH ROOF
-	WCO	WALL CLEAN OUT
-	W	WASTE LINE
	-	2-WAY VALVE
	-	3-WAY VALVE

NOTE: FOR REFERENCE ONLY. NOT ALL SYMBOLS OR ABBREVIATIONS ARE USED IN THIS PROJECT.

**GENERAL NOTES**

- THE CONTRACT DRAWINGS INDICATE THE EXTENT AND GENERAL ARRANGEMENTS OF THE PLUMBING SYSTEMS. IF ANY DEPARTURES FROM THE DRAWINGS ARE DEEMED NECESSARY BY THE PLUMBING CONTRACTOR, DETAILS OF SUCH DEPARTURES AND THE REASONS THEREFORE SHALL BE SUBMITTED TO THE OWNER AND ENGINEER FOR APPROVAL. NO SUCH DEPARTURES SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL OF THE OWNER AND ENGINEER. EQUIPMENT AND PIPING ARRANGEMENTS SHALL PROVIDE ADEQUATE AND ACCEPTABLE CLEARANCES FOR ENTRY, SERVICING, AND MAINTENANCE. ANY CHANGES TO PIPING AND EQUIPMENT LOCATIONS NECESSARY TO AVOID INTERFERENCE WITH OTHER TRADES SHALL BE MADE AT NO EXTRA COST.
- THE PLUMBING WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE LATEST EDITION OF THE PREVAILING NEW YORK STATE PLUMBING AND BUILDING CODES. IN CASE OF CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND A GOVERNING CODE OR ORDINANCE, THE MORE STRINGENT STANDARD SHALL APPLY.
- THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR PAYING RELATED FEES.
- CONNECTIONS TO EXISTING UTILITIES AND SERVICES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS, INVERT ELEVATIONS, AND SIZES OF EXISTING PLUMBING SERVICES IN FIELD, AND SHALL CONNECT NEW PLUMBING SERVICES AS INDICATED ON DRAWINGS.
- PRIOR TO FABRICATION, THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB SITE, AND COORDINATE THIS WORK WITH THE WORK OF ALL OTHER TRADES.
- ALL ACCESS PANELS SHALL BE BY GENERAL CONTRACTOR. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR LOCATION.
- PROVIDE ALL PLUMBING FIXTURES, PIPING, VALVES AND ACCESSORY ITEMS AS SPECIFIED AND AS REQUIRED FOR A COMPLETE INSTALLATION. ROUGHING DIMENSIONS OF FIXTURES MUST BE COORDINATED WITH THE GENERAL CONTRACTOR.
- PITCH ALL WASTE, SANITARY, AND STORM DRAIN PIPING AT MAXIMUM SLOPE POSSIBLE, BUT NOT LESS THAN 1/8" PER FOOT FOR PIPING ≥ 3" AND 1/4" PER FOOT FOR PIPING ≤ 2 1/2".
- NO PIPING SHALL RUN EXPOSED IN FINISHED AREAS.
- PROVIDE DIELECTRIC FITTINGS OR COUPLINGS WHEREVER DISSIMILAR METALS ARE JOINED.
- ALL WORK SHALL BE PROPERLY TESTED, BALANCED, AND CLEANED AND DISINFECTED. PROVIDE A ONE YEAR WARRANTY FROM DATE OF FINAL INSPECTION ON ALL PARTS AND LABOR.
- PROVIDE ALL PIPE OPENINGS THROUGH PARTITIONS WITH PIPE SLEEVES. FOR PIPES PENETRATING FIRE RATED PARTITIONS, THE SPACE BETWEEN THE PIPE AND THE SLEEVE SHALL BE SEALED WITH FIRE STOPPING MATERIAL. PENETRATIONS FOR PIPING SHALL BE MADE BY CORE DRILLING WHENEVER POSSIBLE.
- THE PLUMBING CONTRACTOR SHALL PROVIDE ALL CUTTING, PATCHING, CORE DRILLING, PAINTING, ACCESS PANELS, AND FINAL RESTORATION REQUIRED TO FACILITATE THE INSTALLATION OF PLUMBING PIPING, INCLUDING ABOVE CEILINGS AND IN SHAFTS THAT WILL NOT BE REPLACED OR OPENED UNDER ANY OTHER SCOPE OF WORK RELATED TO THIS PROJECT. CONTRACTOR TO REMOVE AND REPLACE CEILINGS, AND OPEN AND PATCH SHAFTS AND WALLS, AS REQUIRED TO EXECUTE THE PLUMBING WORK.
- NEW PIPING LAYOUT IS PREDICATED ON RECORD DRAWING DATA OF EXISTING RISERS AND DRAWINGS. MODIFICATIONS TO THE LAYOUT MAY BE REQUIRED DUE TO DIFFERENT ACTUAL CONDITIONS, OBSTRUCTIONS, INTERFERENCES, ETC.
- SEE THE ARCHITECTURAL DRAWINGS FOR EXACT PHASING AND TIME SCHEDULE FOR CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY VENTILATION AND EXHAUST AIR WHEN WELDING OR SOLDERING OPERATIONS ARE PERFORMED, AS REQUIRED BY OSHA.

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Architect

ARCHIMUSE

139 Fulton Street, Suite 603  
New York, NY 10038  
(212) 566-7301

Structural Engineer

MADSEN Consulting Engineering

26 Broadway, 3rd Floor  
New York, NY 10004  
(212) 634-7886

Civil and Geotech. Engineer

TECTONIC

P.O. Box 37, 70 Pleasant Hill Rd  
Mountainville, NY 10953  
(845) 534-5959

MEP Engineer

OLA Consulting Engineers, PC

50 Broadway  
Hawthorne NY 10532  
(914) 747-2800

Estimating Services

Gardiner & Theobald Inc.

535 Fifth Avenue, 3rd Floor  
New York, NY 10017  
(212) 661-6624

Client

City of Yonkers

City Hall, 40 South Broadway  
Yonkers, NY 10701  
(914) 377-6106

The Hudson River Museum

511 Warburton Avenue  
Yonkers, NY 10701  
(914) 963-4550

Project

Hudson River Museum  
West Wing

Hudson River Museum  
511 Warburton Avenue  
Yonkers, NY 10701

Drawing Title

PLUMBING SYMBOLS,  
ABBREVIATIONS, & NOTES

Drawing Number

**P-001**



# SPECIFICATIONS

## P-1 GENERAL

A.) THE CONTRACTOR SHALL OBTAIN AND FAMILIARIZE HIMSELF WITH THE BUILDING DESIGN CRITERIA AND CONSTRUCTION REQUIREMENTS PRIOR TO SUBMITTING BID. THE PLUMBING WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH ALL LOCAL PLUMBING AND BUILDING CODES, AS WELL AS THOSE OF THE STATE OF NEW YORK. IN CASE OF CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND A GOVERNING CODE OR ORDINANCE THE MORE STRINGENT STANDARD SHALL APPLY.

B.) PRIOR TO FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB SITE AND COORDINATE THIS WORK WITH THE WORK OF ALL OTHER TRADES.

C.) PROVIDE ALL PLANT FACILITIES, LABOR, MATERIALS, TOOLS, EQUIPMENT, APPLIANCES, TRANSPORTATION, SUPERVISION, AND RELATED WORK NECESSARY OR INCIDENTAL TO COMPLETE THE WORK SPECIFIED IN THIS SECTION AND AS SHOWN ON THE DRAWINGS.

D.) THE DRAWINGS INDICATE THE EXTENT AND GENERAL ARRANGEMENTS OF THE PLUMBING SYSTEMS. IF ANY DEPARTURES FROM THE DRAWINGS ARE DEEMED NECESSARY BY THE PLUMBING CONTRACTOR, DETAILS OF SUCH DEPARTURES AND THE REASONS THEREFORE SHALL BE SUBMITTED TO THE OWNER AND ENGINEER FOR APPROVAL. NO SUCH DEPARTURES SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL OF THE OWNER AND ENGINEER. EQUIPMENT AND PIPING ARRANGEMENTS SHALL PROVIDE ADEQUATE AND ACCEPTABLE CLEARANCES FOR ENTRY, SERVICING, AND MAINTENANCE.

E.) CONSTRUCT ALL APPARATUS OF MATERIALS AND PRESSURE SUITABLE FOR THE CONDITIONS ENCOUNTERED DURING CONTINUOUS OPERATION.

F.) WHERE CORROSION CAN OCCUR, APPROPRIATE CORROSION-RESISTANT MATERIALS AND ASSEMBLY METHODS MUST BE USED, INCLUDING ISOLATION OF DISSIMILAR METALS AGAINST GALVANIC INTERACTION. RESISTANCE TO CORROSION SHALL BE ACHIEVED BY THE USE OF THE APPROPRIATE BASE MATERIALS COATINGS AND SHALL BE RESORTED TO ONLY WHEN SPECIFICALLY PERMITTED BY THE SPECIFICATIONS.

G.) CONSTRUCT ALL EQUIPMENT IN ACCORDANCE WITH REQUIREMENTS OF ALL APPLICABLE CODES. ALL PRESSURE VESSELS AND SAFETY DEVICES THAT FALL WITHIN THE SCOPE OF THE ASME CODE SHALL CONFORM TO THE CODE AND BEAR THE ASME LABEL OR STAMP.

H.) ALL INSTALLATIONS SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND GUIDELINES.

I.) UPON COMPLETION OF WORK THE ENTIRE PLUMBING SYSTEM SHALL BE OPERATED IN THE PRESENCE OF THE OWNER AND ENGINEER TO DEMONSTRATE THAT ALL COMPONENTS ARE INSTALLED AND OPERATING PROPERLY.

## P-2 WORK NOT INCLUDED

A.) THE FOLLOWING ITEMS OF WORK ARE TO BE DONE BY OTHERS AND SHALL NOT BE INCLUDED IN THE WORK OF THIS SECTION. HOWEVER, IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO SUPPLY THE OTHER CONTRACTORS WITH THE NECESSARY INFORMATION, DRAWINGS, AND SUPERVISION SO THAT THEY CAN PROPERLY COMPLETE THEIR PHASE OF THE INSTALLATION.

- 1.) ELECTRICAL WIRING AND MOUNTING OF STARTING AND CONTROL EQUIPMENT FOR ELECTRICALLY OPERATED PLUMBING EQUIPMENT.
- 2.) ALL ELECTRIC POWER WIRING EXCEPT WHERE FURNISHED AS AN INTEGRAL PART OF FACTORY ASSEMBLED EQUIPMENT OR AS OTHERWISE REQUIRED FOR AUTOMATIC CONTROLS.

B.) WORK FOR THIS CONTRACTOR SHALL BE LIMITED TO WITHIN FIVE FEET OF THE BUILDING EXTERIOR. ALL WORK TO BE PERFORMED OUTSIDE FIVE FEET OF THE BUILDING EXTERIOR SHALL BE DONE BY OTHERS UNLESS OTHERWISE NOTED.

C.) ALL EXTERIOR STORM-DRAINAGE AND GUTTERS, LEADERS, AND DOWNSPOUTS ARE BY OTHERS.

## P-3 VISITING THE PREMISES

A.) THE PLUMBING CONTRACTOR, BEFORE SUBMITTING A BID ON THE WORK, MUST VISIT THE SITE AND FAMILIARIZE HIMSELF WITH ALL VISIBLE EXISTING CONDITIONS.

B.) THE SUBMISSION OF A BID WILL BE CONSIDERED AN ACKNOWLEDGMENT ON THE PART OF THE BIDDER OF HIS VISITATION TO THE SITE. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF THE WORK AS SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN.

C.) INSPECT AND VERIFY ALL CONDITIONS WHICH MAY AFFECT COST OF INSTALLATION. VERIFY EXACT LOCATION OF ALL EXISTING PIPES, DUCTS, BEAMS, ETC., WHETHER SHOWN ON THE DRAWINGS OR NOT, SO FAR AS THESE LOCATIONS RELATE TO THE NEW WORK. PROVIDE ANY OFFSETS IN NEW PIPING OR AS MAY BE REQUIRED FOR PROPER CLEARANCES TO AVOID EXISTING DUCTS, CABLES OR OTHER OBSTRUCTION.

## P-4 QUALITY ASSURANCE

A.) THE WORK SHALL BE EXECUTED IN STRICT ACCORDANCE WITH THE N.Y. STATE PLUMBING CODES. IN CASE OF CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND A GOVERNING CODE OR ORDINANCE, THE MORE STRINGENT REQUIREMENTS SHALL APPLY.

B.) UNLESS OTHERWISE SPECIFIED OR INDICATED, MATERIALS AND WORKMANSHIP SHALL CONFORM WITH THE LATEST EDITION OF THE FOLLOWING CODES AND STANDARDS: AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI), UNDERWRITERS' LABORATORIES, INC. (UL), AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM), NATIONAL FIRE PROTECTION ASSOCIATION (NFPA), AND NATIONAL ELECTRIC CODE.

C.) IF ANY WORK IS PERFORMED AND SUBSEQUENT CHANGES ARE NECESSARY TO CONFORM TO THE ORDINANCES, THE CHANGES SHALL BE MADE AT THE PLUMBING CONTRACTOR'S EXPENSE.

## P-5 WORKMANSHIP AND MATERIALS

A.) WORKMANSHIP SHALL BE OF THE BEST QUALITY AND NONE BUT COMPETENT MECHANICS SKILLED IN THEIR TRADES SHALL BE EMPLOYED. THE PLUMBING CONTRACTOR SHALL FURNISH THE SERVICES OF AN EXPERIENCED SUPERINTENDENT, WHO WILL BE CONSTANTLY IN CHARGE OF THE ERECTION OF THE WORK, UNTIL COMPLETED AND ACCEPTED.

B.) UNLESS OTHERWISE HEREINAFTER SPECIFIED, ALL MATERIALS AND EQUIPMENT UNDER THIS SECTION OF THE SPECIFICATIONS SHALL BE NEW, OF BEST GRADE, AND AS LISTED IN PRINTED CATALOGS OF THE MANUFACTURER. EACH ARTICLE OF ITS KIND SHALL BE THE STANDARD PRODUCT OF A SINGLE MANUFACTURER.

C.) THE ENGINEER SHALL HAVE THE RIGHT TO ACCEPT OR REJECT MATERIAL, EQUIPMENT, AND/OR WORKMANSHIP AND DETERMINE WHEN THE PLUMBING CONTRACTOR HAS COMPLIED WITH THE REQUIREMENTS HEREIN SPECIFIED.

D.) ALL MANUFACTURED MATERIALS SHALL BE DELIVERED AND STORED IN THEIR

## ORIGINAL CONTAINERS.

## P-6 MANUFACTURERS' RECOMMENDATIONS

A.) EQUIPMENT INSTALLED UNDER THIS SECTION OF THE SPECIFICATIONS SHALL BE INSTALLED ACCORDING TO MANUFACTURERS' RECOMMENDATIONS, UNLESS OTHERWISE SHOWN ON THE DRAWINGS OR HEREIN SPECIFIED.

## P-7 EQUIPMENT SUBMITTALS

A.) THE PLUMBING CONTRACTOR SHALL PREPARE A COMPLETE SUBMITTAL OF PLUMBING FIXTURES, PIPING, AND EQUIPMENT INCLUDED UNDER THIS SECTION.

B.) SHOP DRAWINGS: SHOP DRAWINGS SHALL INCLUDE DRAWINGS WITH DIMENSIONS OF ALL EQUIPMENT, SCHEDULES, PERFORMANCE CHARTS, INSTRUCTIONS, BROCHURES, DIAGRAMS, AND OTHER INFORMATION TO ILLUSTRATE THE REQUIREMENTS AND OPERATION OF THE SYSTEM.

## P-8 INTERRUPTION OF SERVICES

A.) WHILE WORK IS IN PROGRESS, EXCEPT FOR DESIGNATED SHORT INTERVALS DURING WHICH CONNECTIONS ARE TO BE MADE, CONTINUITY OF SERVICE SHALL BE MAINTAINED TO ALL EXISTING SYSTEMS. INTERRUPTIONS SHALL BE COORDINATED WITH THE OWNERS AS TO TIME AND DURATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY INTERRUPTIONS TO SERVICE AND SHALL REPAIR ANY DAMAGES TO EXISTING SYSTEMS CAUSED BY HIS OPERATIONS. ANY SHUT DOWNS MUST BE APPROVED IN WRITING BY THE BUILDING MANAGEMENT PRIOR TO SHUTDOWN.

## P-9 INFORMATION

A.) THE PLUMBING CONTRACTOR SHALL KEEP HIMSELF FULLY INFORMED AS TO THE SHAPE, SIZE, AND POSITION OF ALL OPENINGS AND FOUNDATIONS REQUIRED FOR HIS APPARATUS AND SHALL GIVE FULL INFORMATION TO THE GENERAL CONTRACTOR SUFFICIENTLY IN ADVANCE OF THE WORK, SO THAT ALL SUCH OPENINGS AND FOUNDATION MAY BE BUILT IN ADVANCE. HE SHALL ALSO FURNISH ALL SLEEVES AND SUPPORTS HEREIN SPECIFIED OR REQUIRED, SO THE GENERAL CONTRACTOR MAY BUILD SAME IN PLACE.

B.) THE PLUMBING CONTRACTOR SHALL OBTAIN DETAILED INFORMATION FROM THE MANUFACTURERS OF APPARATUS, WHICH HE IS TO PROVIDE, FOR THE PROPER METHODS OF INSTALLATION. HE SHALL ALSO OBTAIN ANY INFORMATION FROM OTHER SUBCONTRACTORS TO ENSURE FULL COMPREHENSION OF THE WORK TO BE DONE AND TO ENSURE COORDINATION BETWEEN WORK UNDER THIS SECTION AND ALL OTHER WORK UNDER THIS CONTRACT.

## P-10 OPERATING AND MAINTENANCE MANUALS

A.) OPERATING INSTRUCTIONS: PROVIDE OPERATING INSTRUCTIONS TO THE OWNER WITH RESPECT TO OPERATION FUNCTIONS AND MAINTENANCE PROCEDURES FOR ALL EQUIPMENT AND SYSTEMS INSTALLED.

B.) MAINTENANCE MANUALS: AT THE COMPLETION OF THE PROJECT, FOUR COMPLETE MANUALS CONTAINING THE FOLLOWING SHALL BE TURNED OVER TO THE OWNER:

- 1.) COMPLETE SHOP DRAWINGS OF ALL EQUIPMENT.
- 2.) OPERATION DESCRIPTION OF ALL SYSTEMS.
- 3.) NAMES, ADDRESSES, AND TELEPHONE NUMBERS OF ALL SUPPLIERS OF THE SYSTEMS AND SERVICE AGENTS.
- 4.) PREVENTIVE MAINTENANCE INSTRUCTIONS AND SCHEDULE FOR ALL SYSTEMS.
- 5.) SPARE PARTS LIST OF ALL SYSTEM COMPONENTS.

## P-11 REMOVALS

A.) REMOVE AND DISPOSE OF ALL PIPING, AND ACCESSORIES WITHIN THE PROJECT AREA AS SHOWN ON THE DRAWINGS OR AS REQUIRED FOR THE INSTALLATION OF THE WORK OF THIS PROJECT.

B.) THIS WORK SHALL BE EXECUTED IN AN ORDERLY AND CAREFUL MANNER, WITH DUE CONSIDERATION FOR THE PROTECTION OF ADJACENT ACTIVITIES. DUST PRODUCING DEMOLITION SHALL BE ISOLATED WITH PROPER PRECAUTIONS.

C.) THE CONTRACTOR SHALL ASK THE OWNER FOR INSTRUCTIONS IF HE ENCOUNTERS ANY WORK, THE DEMOLITION OF WHICH MIGHT RESULT IN A HAZARDOUS CONDITION.

## P-12 DUST PROTECTION

A.) IT IS IMPERATIVE THAT DURING DEMOLITION AND ALSO DURING NORMAL CONSTRUCTION WHERE THERE IS ANY POSSIBILITY OF DUST DUE TO CONSTRUCTION WORK CONTAMINATING THE OWNER'S EQUIPMENT OR CAUSING A NUISANCE TO PERSONNEL, THIS CONTRACTOR SHALL FURNISH AND INSTALL SUITABLE PROTECTION AS REQUIRED.

B.) WHEREVER POLYETHYLENE IS USED AS PROTECTIVE TARPULINS OR DROP-CLOTH, IT SHALL BE FIRE-RETARDANT POLYETHYLENE SHEETING, .004" THICK.

## P-13 TIME AND MANNER

A.) ALL WORK SHALL BE PERFORMED DURING NORMAL WORKING HOURS UNLESS OTHERWISE DIRECTED BY THE OWNERS REPRESENTATIVE OR NOTED ON THE PLANS

B.) PRIOR TO THE BEGINNING OF WORK THE CONTRACTOR SHALL SUBMIT A SCHEDULE OF WORK TO THE OWNER BASED ON THE DATES GIVEN IN THE PRE-BID MEETING. ANY SHUTDOWNS OF EXISTING SYSTEMS MUST BE VERIFIED IN WRITING WITH THE OWNER'S REPRESENTATIVE.

C.) ANY SHUT-DOWN OF EXISTING SYSTEMS WHERE SUCH SHUT-DOWN IS REQUIRED FOR THE PERFORMANCE OF THE WORK UNDER THE CONTRACT SHALL BE AT SUCH TIMES AS DESIGNATED BY OWNER'S REPRESENTATIVE. RESTORE SYSTEMS TO ORIGINAL CONDITION AFTER PERFORMANCE WORK. THE INTENT IS TO INSURE MINIMUM INTERFERENCE WITH OPERATION OF EXISTING FACILITIES. REPAIR ANY DAMAGE DONE TO BUILDING RESULTING FROM INSTALLATION OF NEW WORK.

## P-14 PIPE LABELS

A.) CONTRACTOR TO PROVIDE OPTI-CODE LABELS FOR ALL NEW PIPING. LETTERS AND ARROWS INDICATING FLOW SHALL BE 2 1/2" HIGH, PLACED EVERY 10' AND SHALL BE WHITE ON A GREEN BACKGROUND AND SHALL CONFORM TO ANSI AND OSHA STANDARDS. LABEL ALL COLD WATER, HOT WATER, HOT WATER RE-CIRCULATING, STORM, SANITARY, VENT, GAS PIPING AS FOLLOWS: "COLD WATER", "HOT WATER", "HOT WATER RECIRC", "STORM", ETC. APPLY OVER INSULATION WHERE INSTALLED.

## P-15 PIPE

A.) REFER TO "PLUMBING PIPE MATERIAL SCHEDULE"

## P-16 PIPING INSTALLATION - GENERAL REQUIREMENTS

A.) REFER TO DRAWINGS FOR REQUIRED PIPING LAYOUTS. CONNECTION DETAILS INDICATE REQUIRED PIPING AT VARIOUS PIECES OF EQUIPMENT. FLOOR PLANS INDICATE GENERAL ROUTING OF PIPING. SPECIFICATIONS DEFINE MATERIALS, INSTALLATION REQUIREMENTS AND SUPPLEMENTARY REQUIREMENTS TO THOSE SHOWN ON DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR PROVIDING A COMPLETE SYSTEM BASED ON ALL DOCUMENTATION PROVIDED, TO EQUIPMENT SCHEDULES FOR NOMINAL FLOW RATES. FINAL SIZING SHALL BE BASED ON FLOW RATE OF CONTRACTOR PURCHASED EQUIPMENT.

B.) PROPER PROVISION SHALL BE MADE FOR EXPANSION AND CONTRACTION IN ALL PORTIONS OF PIPE-WORK, TO PREVENT UNDUE STRAINS ON PIPING OR EQUIPMENT. ALL PIPE SHALL BE SUITABLY REINFORCED AT ALL ANCHOR POINTS.

C.) RUIN-OUTS, AND CONNECTIONS TO EQUIPMENT, SHALL BE PROVIDED WITH A FLEXIBLE CONNECTION TO WITHSTAND EXPANSION AND CONTRACTION.

D.) ALL CHANGES IN SIZE AND DIRECTION OF PIPING SHALL BE MADE WITH FITTINGS. DO NOT USE MITER FITTINGS, CLOSE NIPPLES OR STREET ELBOWS.

E.) ALL BRANCH CONNECTIONS SHALL BE MADE WITH TEES, EXCEPT THAT ON STEEL PIPING FORGED STEEL "WELDOLETS" AND "LATROLETS" AS MANUFACTURED BY BONNEY FORGE MAY BE USED WHERE THE BRANCH PIPE IS AT LEAST TWO NOMINAL PIPE SIZES LESS THAN THE MAIN PIPE.

F.) ECCENTRIC REDUCING FITTINGS OR ECCENTRIC REDUCING COUPLINGS SHALL BE USED WHERE REQUIRED BY THE CONTRACT DOCUMENTS OR WHERE REQUIRED TO PREVENT POCKETING OF LIQUID OR NON-CONDENSIBLES.

G.) FITTINGS SHALL BE FACTORY MANUFACTURED. SHOP OR FIELD FABRICATED FITTINGS ARE NOT ACCEPTABLE. FITTINGS SHALL HAVE THE SAME PRESSURE RATINGS AS THE SYSTEM IN WHICH THEY ARE INSTALLED.

H.) ALL FIXTURES SHALL BE INDIVIDUALLY TRAPPED AND VENTED.

I.) GROUP PIPING WHENEVER PRACTICAL AT COMMON ELEVATIONS.

J.) MINIMUM FALL ON ALL SANITARY DRAINS SHALL BE 1/8" PER FOOT FOR PIPING 4" AND LARGER. 3" AND SMALLER SHALL BE INSTALLED AT 1/4" PER FOOT.

K.) A CLEAN-OUT SHALL BE LOCATED AT THE BASE OF EACH STACK AND LEADER.

L.) INSTALL VENT PIPING PENETRATING ROOFED AREAS TO MAINTAIN INTEGRITY OF ROOF ASSEMBLY. VENT PIPING PASSING THROUGH ROOFS SHALL BE 4 INCH MINIMUM. PIPES SMALLER THAN 4 INCH SHALL BE INCREASED IN SIZE BY MEANS OF A 12 INCH LONG INCREASER. PIPES SHALL TERMINATE AT LEAST 12 INCHES ABOVE THE ROOF OR HIGHER IF REQUIRED BY CODE.

M.) ALL GAS PIPING SHALL BE INSTALLED IN ACCORDANCE WITH CON ED STANDARDS & SPECIFICATIONS.

## P-17 SLEEVES AND ESCUTCHEONS

A.) PROVIDE ALL PIPE OPENINGS THROUGH PARTITIONS WITH PIPE SLEEVES. FOR PIPES PENETRATING FIRE RATED PARTITIONS, THE SPACE BETWEEN THE PIPE AND THE SLEEVE SHALL BE SEALED WITH APPROVED FIRE & SMOKE STOPPING MATERIAL.

B.) SLEEVES FOR PIPING PASSING THROUGH MASONRY WALLS SHALL BE SCHEDULE 40, STANDARD GALVANIZED STEEL PIPE; IN FRAMED PARTITIONS SHALL BE 20 GAUGE SHEET METAL. THE SPACE BETWEEN THE PIPE AND ITS SLEEVE SHALL NOT EXCEED ONE-HALF INCH. THE SLEEVE SHALL HAVE A SUFFICIENT LENGTH TO BE FLUSH WITH THE FINISHED WALL SURFACES.

C.) EXPOSED PIPING PASSING THROUGH WALLS, FLOORS OR CEILING SHALL BE FITTED WITH CHROMIUM PLATED CAST BRASS ESCUTCHEONS WITH FASTENING SET SCREWS SIMILAR TO FEE AND MASON MANUFACTURING CO., F. & S. MANUFACTURING CO., OR RITTER PATTERN AND CASTING CO.

## P-18 JOINTS AND CONNECTIONS

A.) SOLDERED OR SWEAT: SOLDERED OR SWEAT JOINTS FOR TUBING SHALL BE MADE WITH APPROVED FITTINGS. SURFACES TO BE SOLDERED OR SWEATED SHALL BE PROPERLY CLEANED AND REAMED. THE JOINTS SHALL BE PROPERLY FLUXED AND MADE WITH APPROVED SOLDER. JOINTS IN COPPER WATER TUBING SHALL BE MADE BY APPROPRIATE USE OF APPROVED BRASS OR WROUGHT COPPER WATER FITTINGS IN ACCORDANCE WITH ANSI B16.22, PROPERLY SWEATED OR SOLDERED TOGETHER.

B.) UNIONS: UNIONS IN THE WATER SUPPLY SYSTEM SHALL BE METAL-TO-METAL WITH GROUND SEATS. UNIONS ON DRAINAGE SYSTEMS MAY BE USED ONLY IN THE TRAP SEAL OR ON THE INLET SIDE OF THE TRAP. UNIONS SHALL HAVE METAL-TO-METAL GROUND SEATS.

C.) DIELECTRIC UNIONS/COUPLINGS: INSULATED UNION/COUPLINGS SHALL BE PROVIDED FOR CONNECTING DISSIMILAR MATERIALS. UNION SHALL HAVE A WATER IMPERVIOUS INSULATION BARRIER CAPABLE OF LIMITING GALVANIC CURRENT TO ONE PERCENT OF THE SHORT CIRCUIT CURRENT IN A CORRESPONDING BIMETALLIC JOINT. WHEN DRY, INSULATION BARRIER SHALL BE ABLE TO WITHSTAND A 600-VOLT BREAK DOWN TEST.

## P-19 INSULATION - GENERAL REQUIREMENTS

A.) ALL LABOR, MATERIALS, EQUIPMENT AND SERVICES, SHALL BE PROVIDED. ALL OPERATIONS REQUIRED FOR COMPLETE INSTALLATION OF INSULATION AND RELATED WORK AS INDICATED ON THE DRAWING, OR SPECIFIED HEREIN, SHALL BE PERFORMED. THE EXECUTION OF THE WORK SHALL BE IN STRICT ACCORDANCE WITH THE INSULATION MANUFACTURER'S RECOMMENDATIONS AND THE BEST PRACTICE OF THE TRADE.

B.) NO INSULATION SHALL BE APPLIED UNTIL ALL TESTS HAVE BEEN COMPLETED. ONLY INSULATION AND FINISH MATERIALS INCLUDING ADHESIVES, CEMENTS AND MASTICS WHICH CONFORM TO THE REQUIREMENTS OF ALL GOVERNING CODES AND ORDINANCES SHALL BE USED.

C.) ANY EXISTING INSULATION AND SURFACE FINISH DISTURBED OR DAMAGED BY THE INSTALLATION OF NEW EQUIPMENT OR OTHER ALTERATIONS TO THE SYSTEM SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER.

## P-20 INSULATION

A.) ALL PIPE COVERING SPECIFIED HEREIN FOR PIPING SYSTEMS SHALL BE FURNISHED AND INSTALLED BY A COMPETENT PIPE COVERING CONTRACTOR RESPONSIBLE TO THE PLUMBING CONTRACTOR. BEFORE COVERING IS APPLIED, ALL PRESSURE TESTS SHALL HAVE BEEN PERFORMED AND APPROVED, WITH ALL SURFACES TO BE COVERED SHALL HAVE BEEN CLEANED.

B.) THE JACKET SHALL HAVE A PRESSURE SEALING LAB ADHESIVE TO ELIMINATE THE USE OF STAPLES, ADHESIVES, OR BANDS, AND INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS.

C.) ALL INSULATION SHALL HAVE A MAXIMUM FLAME SPREAD INDEX OF 25 AND A SMOKE-DEVELOPED INDEX NOT EXCEEDING 450. PIPE INSULATION INSTALLED WITHIN AIR PLENUMS SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E84 OR UL 723.

D.) PIPE COVERING SHALL BE CONTINUOUS AND SHALL BE CAREFULLY FITTED WITH SIDE AND END JOINTS BUTTED TIGHTLY AND STAGGERED. VALVES, FITTINGS, FLANGES, AND ACCESSORIES SHALL HAVE THE SAME THICKNESS OF PIPE COVERING AS THE ADJACENT PIPE. PIPE COVERING FOR THESE ITEMS SHALL BE FACTORY MOLDED TYPE OR FIELD

## FABRICATED.

E.) INSULATE ALL HOT, COLD WATER, HOT WATER RE-CIRCULATION, DRAIN, AND STORM PIPING WITH FIBERGLASS PIPE INSULATION WITH FIRE RETARDANT VAPOR BARRIER JACKET. THICKNESS OF INSULATION SHALL AS PER TABLE C403.2.10.

F.) PIPING VALVES AND FITTINGS ON ALL INSULATED PIPES SHALL BE PROVIDED WITH FABRICATED SECTIONS OF INSULATION OR PRE-MOLDED FITTING COVERS EQUAL IN THICKNESS AND MATERIAL TO ADJOINING PIPE INSULATION.

## P-21 HANGERS AND SUPPORTS

A.) ALL PIPING SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE BY MEANS OF APPROVED HANGERS AND SUPPORTS. PIPING SHALL BE SUPPORTED TO MAINTAIN REQUIRED GRADING AND PITCHING OF LINES, TO PREVENT VIBRATION AND TO SECURE PIPING IN PLACE, AND SHALL BE SO ARRANGED AS TO PROVIDE FOR EXPANSION AND CONTRACTION. CHAIN, PERFORATED STRAP, BAR, OR WIRE HANGERS ARE NOT PERMITTED.

B.) BRANCHES SHALL HAVE SEPARATE SUPPORTS AND NO BRANCH 5'-0" OR LONGER SHALL BE WITHOUT SUPPORT.

C.) WHERE CODES HAVING JURISDICTION REQUIRE CLOSER SPACING, THE HANGER SPACING SHALL BE AS REQUIRED BY CODE IN LIEU OF THE DISTANCES SPECIFIED HEREIN.

D.) PROVIDE HANGERS AT A MAXIMUM DISTANCE OF 2 FEET FROM ALL CHANGES IN DIRECTION (HORIZONTAL AND VERTICAL) ON BOTH SIDES OF CONCENTRATED LOADS INDEPENDENT OF THE PIPING.

E.) HANGERS IN GENERAL FOR ALL HORIZONTAL PIPING SHALL BE CLEVIS TYPE HANGERS. THESE HANGERS SHALL BE SIZED TO PROVIDE FOR INSULATION PROTECTORS AS HEREIN AFTER SPECIFIED.

F.) PIPING SHALL BE SECURELY FASTENED TO THE STRUCTURE WITHOUT VERSTRESSING ANY PORTION OF THE SUPPORTS OF THE STRUCTURE ITSELF. SUFFICIENT INTERMEDIATE STEEL SHALL BE PROVIDED TO TRANSFER LOADS TO AREAS WHERE THEY CAN SAFELY BE ACCOMMODATED. PIPE SUPPORTS, ANCHORS AND GUIDES SHALL BE SECURED TO STEEL BY WELDED BRACKETS, BEAM CLAMPS, OR BY FASTENING RODS OVER THE BEAM TOP FLANGE, AND TO CONCRETE BY MEANS OF INSERTS, OR IF GREATER LOAD CARRYING CAPACITY IS REQUIRED, BY MEANS OF STEEL FISHLIFES EMBEDDED IN THE CONCRETE ABOVE THE REINFORCEMENT RODS. ALL HANGERS SHALL BE LOCATED TO PERMIT FREE EXPANSION AND CONTRACTION.

G.) PIPING AND TUBING SHALL BE SUPPORTED AT ALL CHANGES IN DIRECTION. MAXIMUM DEFLECTION SHALL BE 1/8". MAXIMUM SPACING BETWEEN SUPPORTS SHALL BE 10FT FOR STEEL PIPING AND 8FT FOR COPPER PIPING 2" AND LARGER, FOR COPPER PIPING LESS THAN 2" SPACING SHALL BE 6FT O.C. MAXIMUM.

H.) PIPE HANGERS AND SUPPORTS COMPLETE WITH RODS, BOLTS, LOCKNUTS, SWIVELS, COUPLINGS, BRACKETS AND ALL OTHER COMPONENTS AND ACCESSORIES SHALL BE PROVIDED.

I.) SUPPORT VERTICAL PIPING AT EVERY FLOOR. SUPPORT RISER PIPING INDEPENDENTLY OF CONNECTED HORIZONTAL PIPING.

J.) PROVIDE COPPER PLATED HANGERS AND SUPPORTS FOR COPPER PIPING.

K.) PRIME COAT EXPOSED STEEL HANGERS AND SUPPORTS. HANGERS AND SUPPORTS LOCATED IN CRAWL SPACES, PIPE SHAFTS, AND SUSPENDED CEILING SPACES ARE NOT CONSIDERED EXPOSED.

L.) PROVIDE HANGERS ADJACENT TO MOTOR DRIVEN EQUIPMENT WITH VIBRATION ISOLATION.

M.) UNLESS OTHERWISE SPECIFICALLY APPROVED, HANGER SIZE AND SPACING SHALL BE WITHIN FOLLOWING LIMITS:

PIPING SIZE	MAX. HANGER SPACING	MIN. ROD SIZE
1"	8FT. O.C.	3/8"
1-1/4" TO 2"	10 FT. O.C.	3/8"
2-1/2" TO 3-1/2"	12 FT. O.C.	1/2"
4" AND 5"	12 FT. O.C.	5/8"

## P-22 PIPE HANGER TYPES

A.) IN GENERAL, HANGERS SHALL BE OF CLEVIS TYPE OR ROLL TYPE WITH VERTICAL ADJUSTMENT. WHERE SEVERAL LINES OF PIPING RUN AS A COMMON GROUP, THEY SHALL BE SUPPORTED ON A COMMON HANGER BAR OF GALVANIZED CHANNEL OR BACK TO BACK ANGLE SECTIONS OR "UNISTRUT" TYPE.

B.) HANGERS SHALL BE AS FOLLOWS:

APPLICATION CENTRAL IRON FIG.  
NO. CLEVIS HANGER 10  
RISER CLAMP - THRU 3" 261

C.) ALTERNATE MANUFACTURERS: GRINNELL, GRABLER, CRANE

## P-30 MISCELLANEOUS

A.) THE CONTRACTOR SHALL PROVIDE THE OWNERS WITH CATALOG DATA, OPERATING INSTRUCTIONS, MAINTENANCE INSTRUCTIONS AND RECORD (AS-BUILT) DRAWINGS OF ALL COMPLETED WORK. AS BUILT DRAWINGS SHALL INCLUDE PUMPS AND PIPING LAY OUT.

B.) ALL WORK SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE BY THE OWNER.

C.) THE PLUMBING CONTRACTOR SHALL KEEP AN ACCURATE RECORD OF ALL WORK AS ACTUALLY INSTALLED FROM WORK AS SHOWN ON DESIGN DRAWINGS. SUBMIT AS DRAWING (3) SETS ON 24x36 BLUEPRINTS AND A AUTOCAD ELECTRONIC FORMAT DISK IN VERSION 2004 OR LATER.

D.) ALL MATERIALS, EQUIPMENT, FIXTURES, PIPING, AND DEVICES SHALL BE GUARANTEED TO BE FREE FROM MECHANICAL DEFECTS OR FAULTY WORKMANSHIP FOR A PERIOD OF 1 YEAR FROM THE DATE OF WRITTEN ACCEPTANCE BY THE ENGINEER FOR THE OWNER.

E.) LABOR AND MATERIAL REQUIRED TO FULFILL THE REQUIREMENTS OF THIS GUARANTEE SHALL BE FURNISHED TO THE OWNER BY THIS CONTRACTOR AT NO ADDITIONAL COST.

END OF SPECIFICATIONS

Date/Revision

12.10.2021 Bid Issue

Architect

ARCHIMUSE

139 Fulton Street, Suite 603  
New York, NY 10038  
(212) 566-7301

Structural Engineer

MADSEN Consulting Engineering

26 Broadway, 3rd Floor  
New York, NY 10004  
(212) 634-7886

Civil and Geotech. Engineer

TECTONIC

P.O. Box 37, 70 Pleasant Hill Rd  
Mountainville, NY 10953  
(845) 534-5959

MEP Engineer

OLA Consulting Engineers, PC

50 Broadway  
Hawthorne NY 10532  
(914) 747-2800

Estimating Services

Gardiner & Theobald Inc.

535 Fifth Avenue, 3rd Floor  
New York, NY 10017  
(212) 661-6624

Client

City of Yonkers

City Hall, 40 South Broadway  
Yonkers, NY 10701  
(914) 377-6106

The Hudson River Museum

511 Warburton Avenue  
Yonkers, NY 10701  
(914) 963-4550

Project

Hudson River Museum  
West Wing

Hudson River Museum  
511 Warburton Avenue  
Yonkers, NY 10701

Drawing Title

PLUMBING SPECIFICATIONS

Drawing Number

P-002



DEMOLITION KEY NOTES	
1	DEMOLISH ROOF DRAIN & ASSOCIATED STORM DRAIN PIPING COMPLETE TO FIRST ELBOW SUFFICIENTLY FOR NEW WORK. TYPICAL
2	EXISTING 4" PLUMBING VENTS. TYPICAL

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Architect  
ARCHIMUSE  
139 Fulton Street, Suite 603  
New York, NY 10038  
(212) 566-7301

Structural Engineer  
MADSEN Consulting Engineering  
26 Broadway, 3rd Floor  
New York, NY 10004  
(212) 634-7886

Civil and Geotech. Engineer  
TECTONIC  
P.O. Box 37, 70 Pleasant Hill Rd  
Mountainville, NY 10953  
(845) 534-5959

MEP Engineer  
OLA Consulting Engineers, PC  
50 Broadway  
Hawthorne NY 10532  
(914) 747-2800

Estimating Services  
Gardiner & Theobald Inc.  
535 Fifth Avenue, 3rd Floor  
New York, NY 10017  
(212) 661-6624

Client  
**City of Yonkers**  
City Hall, 40 South Broadway  
Yonkers, NY 10701  
(914) 377-6106

**The Hudson River Museum**  
511 Warburton Avenue  
Yonkers, NY 10701  
(914) 963-4550

Project  
**Hudson River Museum West Wing**  
Hudson River Museum  
511 Warburton Avenue  
Yonkers, NY 10701

Drawing Title  
**PLUMBING DEMOLITION PLAN**

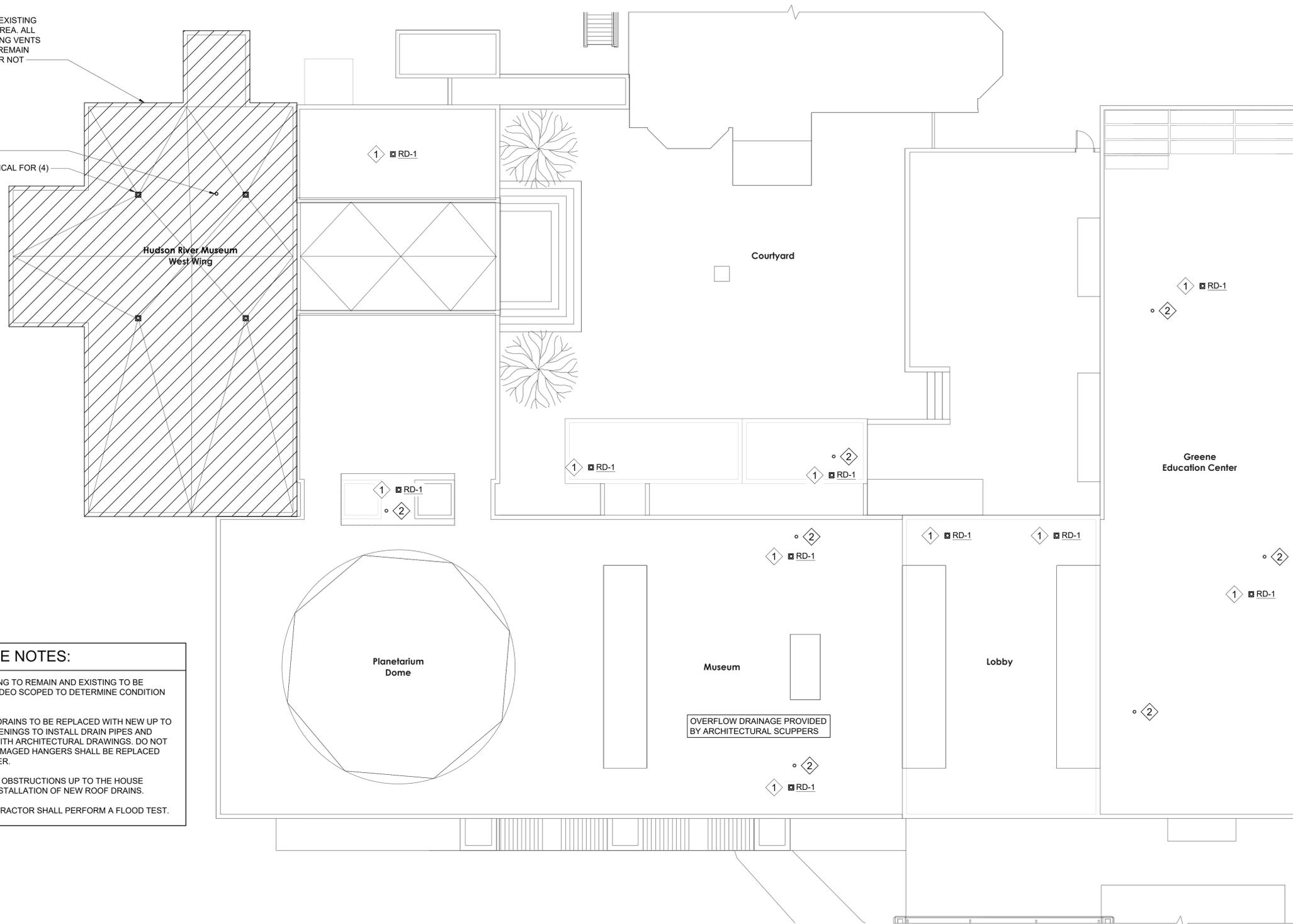
Drawing Number

**P-101**



EXISTING  
ROOF IS TO REMAIN AS EXISTING WITHIN THE HATCHED AREA. ALL ROOF DRAINS & PLUMBING VENTS SHALL BE EXISTING TO REMAIN WHETHER INDICATED OR NOT

EX. 4" VTR  
EX. 3" ROOF DRAIN. TYPICAL FOR (4)



- PLUMBING WORK SCOPE NOTES:**
1. PRIOR TO REMOVAL, ALL DRAINS, EXISTING TO REMAIN AND EXISTING TO BE REPLACED, SHALL BE INSPECTED AND VIDEO SCOPED TO DETERMINE CONDITION AND DRAIN FUNCTIONALITY.
  2. THE DRAIN PIPES FROM ALL NEW ROOF DRAINS TO BE REPLACED WITH NEW UP TO THE FIRST ELBOW. PROVIDE ACCESS OPENINGS TO INSTALL DRAIN PIPES AND ELBOW. FOR LOCATIONS COORDINATE WITH ARCHITECTURAL DRAWINGS. DO NOT REMOVE ANY CEILING HANGERS. ANY DAMAGED HANGERS SHALL BE REPLACED IN-KIND BEFORE APPLICATION OF PLASTER.
  3. CLEAN AND CLEAR ALL LEADERS OF ANY OBSTRUCTIONS UP TO THE HOUSE TRAPS AND TEST BEFORE AND AFTER INSTALLATION OF NEW ROOF DRAINS.
  4. UPON COMPLETION OF WORK, THE CONTRACTOR SHALL PERFORM A FLOOD TEST.

**NEW WORK KEY NOTES**

1 NEW ROOF DRAIN & ASSOCIATED STORM DRAIN PIPING. ROUTE NEW 4" STORM DRAIN & CONNECT TO EXISTING STORM DRAIN PIPING BELOW ROOF DECK. EXTEND/MODIFY EXISTING PIPING AS REQUIRED. TYPICAL

2 EXISTING 4" PLUMBING VENTS. VENT STACK EXTENSIONS SHALL BE WIRE BRUSHED AND PAINTED. TYPICAL

Date/Revision  
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Architect  
ARCHIMUSE  
139 Fulton Street, Suite 603  
New York, NY 10038  
(212) 566-7301

Structural Engineer  
MADSEN Consulting Engineering  
26 Broadway, 3rd Floor  
New York, NY 10004  
(212) 634-7886

Civil and Geotech. Engineer  
TECTONIC  
P.O. Box 37, 70 Pleasant Hill Rd  
Mountainville, NY 10953  
(845) 534-5959

MEP Engineer  
OLA Consulting Engineers, PC  
50 Broadway  
Hawthorne NY 10532  
(914) 747-2800

Estimating Services  
Gardiner & Theobald Inc.  
535 Fifth Avenue, 3rd Floor  
New York, NY 10017  
(212) 661-6624

Client  
**City of Yonkers**  
City Hall, 40 South Broadway  
Yonkers, NY 10701  
(914) 377-6106

**The Hudson River Museum**  
511 Warburton Avenue  
Yonkers, NY 10701  
(914) 963-4550

Project  
**Hudson River Museum West Wing**

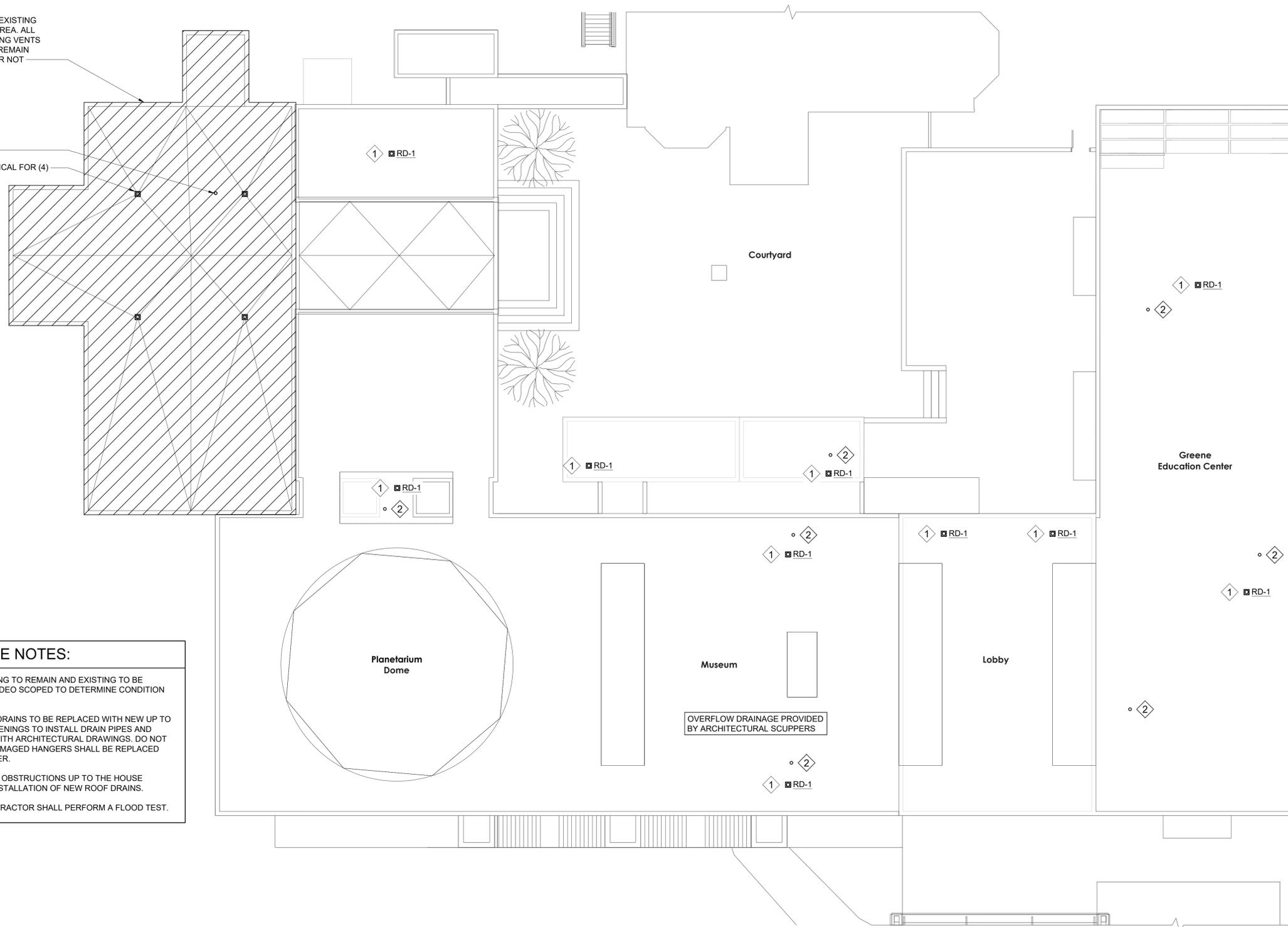
Drawing Number

**P-201**



ROOF IS TO REMAIN AS EXISTING WITHIN THE HATCHED AREA. ALL ROOF DRAINS & PLUMBING VENTS SHALL BE EXISTING TO REMAIN WHETHER INDICATED OR NOT

EX. 4" VTR  
EX. 3" ROOF DRAIN. TYPICAL FOR (4)

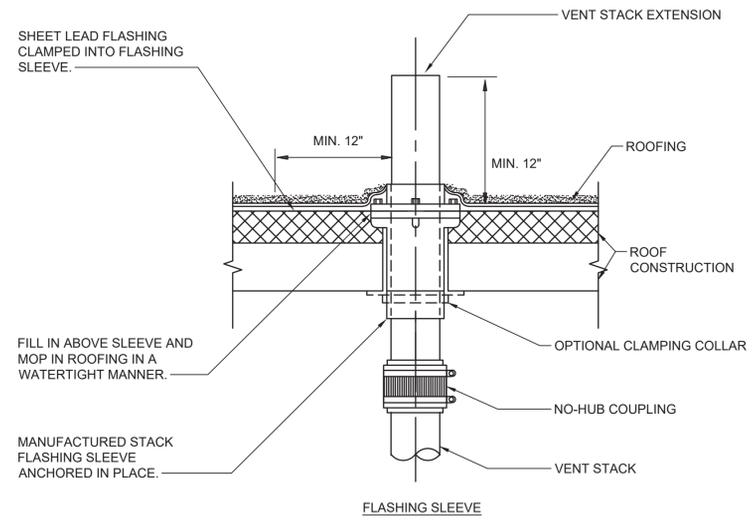


OVERFLOW DRAINAGE PROVIDED BY ARCHITECTURAL SCUPPERS

**PLUMBING WORK SCOPE NOTES:**

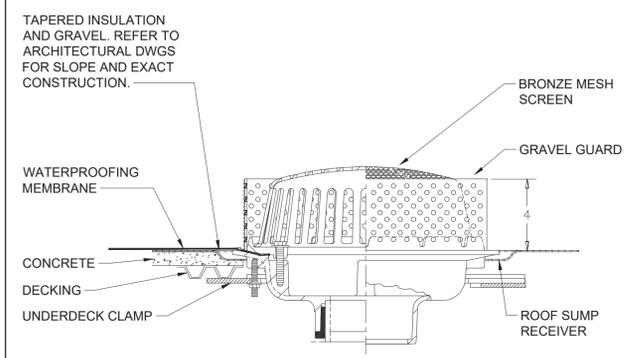
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4. UPON COMPLETION OF WORK, THE CONTRACTOR SHALL PERFORM A FLOOD TEST.



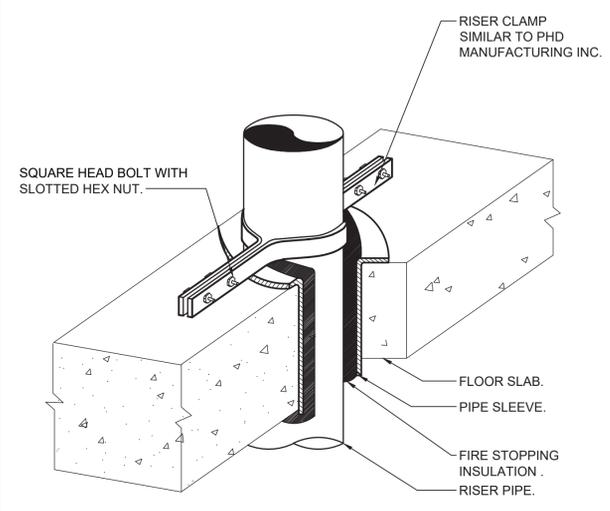


NOTE:  
 1. VENT STACK OUTLET TO BE 10 FT.(MIN) FROM ANY WALL OR STRUCTURE OR 3 FT.ABOVE STRUCTURE

**3 VENT THRU ROOF**  
 SCALE: NONE



**2 ROOF DRAIN DETAIL**  
 SCALE: NONE



**1 VERTICAL PIPE SUPPORT DETAIL**  
 SCALE: NONE

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Architect  
 ARCHIMUSE  
 139 Fulton Street, Suite 603  
 New York, NY 10038  
 (212) 566-7301

Structural Engineer  
 MADSEN Consulting Engineering  
 26 Broadway, 3rd Floor  
 New York, NY 10004  
 (646) 645-7346

Civil and Geotech. Engineer  
 TECTONIC  
 P.O. Box 37, 70 Pleasant Hill Rd  
 Mountainville, NY 10953  
 (845) 534-5959

MEP Engineer  
 OLA Consulting Engineers, PC  
 50 Broadway  
 Hawthorne NY 10532  
 (914) 747-2800  
 Project Number: NARH0001.00  
 Estimating Services  
 Gardiner & Theobald Inc.  
 535 Fifth Avenue, 3rd Floor  
 New York, NY 10017  
 (212) 661-6624

Client  
**City of Yonkers**  
 City Hall, 40 South Broadway  
 Yonkers, NY 10701  
 (914) 377-6106  
**The Hudson River Museum**  
 511 Warburton Avenue  
 Yonkers, NY 10701  
 (914) 963-4550

Project  
**Hudson River Museum  
 Roof Replacement**  
 Hudson River Museum  
 511 Warburton Avenue  
 Yonkers, NY 10701

Drawing Title  
**P-701 - P-701**

As Noted

Drawing Number

