
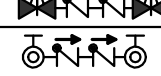
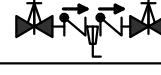
























































PLUMBING ABBREVIATION LEGEND			
AAC	Above Accessible Ceiling	G	Gas
AFF	Above Finished Floor	G.C.	General Contractor
AFG	Above Finished Grade	G.I.	Grease Interceptor
AB	Above	GSAN	Grease Sanitary
AD	Area Drain	GV	Gas Valve
Arch	Architecturals	GW	Grease Waste
ASAN	Acid Sanitary	H / HW	Hot Water
AV	Acid Vent	H.C.	Heating Contractor
AW	Acid Waste	HB	Hose Bibb
AWC	Automatic Washer Connection	HR	Hose Reel
BF	Below Floor	HWH	Hot Water Heater
BFG	Below Finished Grade	HWR / R	Hot Water Return
BFP	Backflow Preventer	I.E. / Inv.	Invert Elevation
BV	Balancing Valve	IG	Interruption Gas
C / CW	Cold Water	IWH	Instantaneous Water Heater
C.I.	Cast Iron	JAN	Janitor
C.O.	Clean Out	KD	Kitchen Drain
CA	Compressed Air	KS	Kitchen Sanitary
CD	Condensate Drain	KW	Kitchen Waste
CFH	Cubic Feet per Hour	LAV	Lavatory
C.L.G.	Ceiling	LPG	Liquid Petroleum Gas/Propane
Conn.	Connection	LT	Laundry Tub
Coord.	Coordinate	MAX	Maximum
CTE	Connect To Existing	MIN	Minimum
CTG	Clean Out To Grade	MR	Mop Receptor
CV	Circuit Vent	MTD	Mounted
CWV	Cleanout Waste & Vent	MU	Make-up Water
D	Drain	NFWH	Non-Freeze Wall Hydrant
DBF	Down Below Floor	NG	Natural Gas
DF	Drinking Fountain	NT	Neutralizing Tank
DFU	Drainage Fixture Units	OS	Oil Sanitary
DN	Down	P.C.	Plumbing Contractor
DWG	Drawing	PIV	Post Indicating Valve
DWH	Domestic Water Heater	PRV	Pressure Reducing Valve
E.C.	Electrical Contractor	PSI	Pounds per Square Inch
E.T.R.	Existing To Remain	PT	Plaster Trap
Ea.	Each	R	Return Piping (Hot Water)
EEW	Emerg. Eyewash	RCP	Re-circulating Pump
ER / ERC	Emerg. Rainwater Conductor	RD	Roof Drain
ERD	Emerg. Roof Drain	RW	Rain Water
ESEW	Emerg. Shower / Eyewash	RWC	Rainwater Conductor
ES	Emerg. Station	RWS	Rain Water Stack
ETV	Emerg. Tempering Valve	S.F./Sq. Ft.	Square Foot
EW	Electric Water Cooler	SA	Shock Absorber
Ext.	Exterior	SAN	Sanitary
F.F.	Finished Floor	SAN I.E.	Sanitary Invert Elevation
F.P.C.	Fire Protection Contractor	ST	Storm
FAI	Fresh Air Inlet	T	Tempered Water
FCO	Floor Cleanout	T&P	Temperature and Pressure
FD	Floor Drain	T.B.R.	To Be Removed
FH	Fire Hydrant	TV	Tempering Valve
FHC	Fire Hose Cabinet	TYP.	Typical
Fin. Flr.	Finished Floor	UR	Urinal
Flr.	Floor	V	Vent
FM	Forced Main	V.I.F.	Verify In Field
FP	Fire Protection	V.T.R.	Vent Through Roof
FPZ	Fire Protection Zone	VS	Vent Stack
FS	Floor Sink	W	Waste
FSC	Food Service Contractor	WF	Wash Fountains
FVC	Fire Valve Cabinet	WB	Wash Box (Toilet Rooms)










PLUMBING/FIRE PROTECTION PIPING SPECIALTIES LEGEND	
	ANCHOR - PIPE
	BACKFLOW PREVENTER - DOUBLE CHECK ASSEMBLY
	BACKFLOW PREVENTER - REDUCED PRESSURE ZONE
	COMPRESSED AIR OUTLET
	EXPANSION FITTINGS
	GAS REGULATOR
	PRESSURE GAUGE W/VALVE
	GUIDE, PIPE
	HOSE BIBB
	MANUAL BALANCING VALVE
	NON FREEZE WALL HYDRANT
	PRESSURE REGULATOR
	RECIRCULATING PUMP
	SHOCK ABSORBER
	STRAINER
	TEMPERING VALVE
	THERMOMETER
	UNION, PIPE
	VALVE - BALL VALVE - NORMALLY OPEN
	VALVE - BALL VALVE - NORMALLY CLOSED
	VALVE - BUTTERFLY VALVE
	VALVE - CHECK VALVE
	VALVE - CIRCUIT SETTER VALVE
	VALVE - GAS COCK
	VALVE - GATE VALVE
	VALVE - GLOBE VALVE
	VALVE - OS&Y VALVE
	VALVE - SOLENOID VALVE
	VALVE IN VERTICAL PIPING

PLUMBING TAG LEGEND	
	ADA SYMBOL
	CONNECT TO EXISTING
	DEMOLITION SYMBOL
	CALLOUT TAG
	INVERT ELEVATION TAG
	PLUMBING DRAWING NOTE TAG
	DEMOLITION NOTE TAG
	CONSTRUCTION REVISION ITEM TAG
	CONSTRUCTION REVISION ITEM TAG
	ADDENDA REVISION ITEM TAG
	PLUMBING FIXTURE TAG

DESIGN CODE REFERENCES	
PA - UCC	PENNSYLVANIA UNIFORM CONSTRUCTION CODE; 2018
IBC2018	ICC - INTERNATIONAL BUILDING CODE; 2018
IFGC2018	ICC - INTERNATIONAL FUEL GAS CODE; 2018 (LPG REQUIREMENTS SUPERSEDED BY THE REQUIREMENTS OF PENNSYLVANIA'S PROPANE AND LIQUEFIED PETROLEUM GAS ACT)
IMC2018	ICC - INTERNATIONAL MECHANICAL CODE; 2018
IPC2018	ICC - INTERNATIONAL PLUMBING CODE; 2018
IFC2018	ICC - INTERNATIONAL FIRE CODE; 2018 (AS REFERENCED IN INTERNATIONAL BUILDING CODE)
IECC2018	ICC - INTERNATIONAL ENERGY CONSERVATION CODE; 2018

REFERENCED DESIGN STANDARDS	
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NFPA 13	NATIONAL FIRE PROTECTION ASSOCIATION - STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS, 2016 EDITION, MOST RECENT EDITION ADOPTED BY AUTHORITY HAVING JURISDICTION, INCLUDING ALL APPLICABLE AMENDMENTS AND SUPPLEMENTS.
NFPA 101	NATIONAL FIRE PROTECTION ASSOCIATION - 2018 EDITION OR CODE FOR SAFETY TO LIFE FROM FIRE IN BUILDINGS AND STRUCTURES OR MOST RECENT EDITION ADOPTED BY AUTHORITY HAVING JURISDICTION, INCLUDING ALL APPLICABLE AMENDMENTS AND SUPPLEMENTS.

PLUMBING DRAIN & VENT LEGEND	
	AIR GAP FITTING
	CLEANOUT - FLOOR CLEANOUT
	CLEANOUT - AB, CEILING CLEANOUT
	CLEANOUT - WALL CLEANOUT
	EMERGENCY RAIN WATER OUTLET
	FLOOR DRAIN - FUNNEL
	FLOOR DRAIN - INDIRECT
	FLOOR DRAIN - ROUND
	FLOOR DRAIN - SQUARE
	FLOOR SINK - FULL GRATE
	FLOOR SINK - HALF GRATE
	FLOOR SINK - NO GRATE
	FLOOR SINK - 1/2 GRATE
	ROOF DRAIN - TYPICAL
	ROOF DRAIN - EMERGENCY
	VENT THRU ROOF - TYPICAL
	VENT THRU ROOF - ACID

PLUMBING MISC. PIPING LEGEND	
	FLOW ARROWS
	CONTINUATION
	PIPE CAP
	PIPE CROSS
	PIPE DROP
	PIPE RISE
	PIPE STACK
	PIPE TEE RISE
	PIPE TEE DROP

<b>WATER PIPING LEGEND</b>
COMPRESSED AIR (CA)
COLD WATER (C)
NATURAL GAS (G)
NATURAL GAS (G 2psi)
HOT WATER (H)
HOT WATER RETURN (R)
TEMPERED WATER (T)

<b>DRAINAGE PIPING LEGEND</b>
CONDENSATE DRAIN (CD)
DRAIN (D)
GREASE SANITARY (GSAN)
GREASE WASTE (GW)
OIL SANITARY (OSAN)
RAINWATER (RW)
SANITARY (SAN)
STORM WATER (ST)
VENT (V)
WASTE (W)

## PLUMBING DEMOLITION - GENERAL NOTES

Existing piping which is removed from service, shall be removed in its entirety, as indicated by plans or required by scope of work. Verify exact location of each piping in field. Removal shall be limited to only the piping on the demolition plans. Verify all conditions and notify Architect / Engineer of any piping not shown on removals prior to any demolition. No demolition shown on this plan shall be performed until all existing new piping, equipment, and etc. are necessary temporary connections, are installed and operational.

Equipment and piping locations, quantity and conditions are approximate. Field verify all conditions, locations and quantities prior to bid. The demolition drawings are intended to convey the basics of the existing system components. Not all conditions and components have been identified on these drawing.

In general where existing fixtures, equipment, pipe risers and drops etc. occur at / in existing walls to be removed, the existing fixture and related piping shall be removed and related piping capped or plugged at mains. Piping within walls that are to remain, shall be capped or plugged within the existing construction and abandoned. Sanitary piping shall be capped below the floor slab and abandoned unless noted otherwise. Patch any affected construction to match existing adjacent finished surface.

All existing systems shall remain functional for as long as required, until replacement with new or reworked as required (see new work plans and phasing plans). Provide temporary connections to keep systems functional properly as required. Such temporary work may be required to be performed after hours, weekends, or during vacation breaks. All demolition work shall in no way inconvenience or interrupt the normal day to day operations of this facility (Coordinate with AECOM/Owner). Any construction work done which affects the operation of the facility shall be replaced with new, repaired or related components or replaced by temporary means for however long as required at no cost to the Owner.

Coordinate all demolition and new work. Demolition work shall be coordinated so that no existing systems are demolished out-of-phase or ahead of the new piping system replacement schedule. Provide necessary temporary system connections to maintain the existing system in service. Coordinate with the new systems areas installed (during its proper phase) or until new mains can be extended and reconnected to existing. Verify in field. All temporary connections required to maintain existing systems or to replace existing system terminated out-of-phase shall be installed immediately and at no additional cost to the owner.

Remove/Rework existing work, materials, etc. in the way of any new work, even if not indicated to be removed on the demolition plans.

Protect existing materials, equipment and finishes that are to remain. Any damage caused by this contractor shall be repaired/replaced as necessary by this contractor.

Remove all items that are to remain but conflict with the installation of any new work. Re-install the same items (or new if damaged during this task) once all new work is completed.

P.C. is responsible for all plumbing demo work in all areas where patching is required, the plumbing contractor shall patch the sub-surface to match the existing conditions by the General Contractor. This sub-surface must be provided so that it does not inhibit the installation of or affect the appearance of the new finish. If a new finish will not be provided by the General Contractor, The Plumbing Contractor shall be responsible to patch the surrounding area to match the existing finish. Patch materials and openings from demolitions piping in fire rated floors and walls as required to maintain fire rating. Refer to the specifications for additional information and coordinate all work in field.

Existing materials scheduled to remain may be required to be temporarily removed, to allow installation of new materials, finishes, etc. These materials must be re-installed in their previous locations in equal or better condition.

At all locations where existing below slab drainage piping is expected to be demolished, the piping shall be removed, capped and abandoned below floor slab. Any existing abandoned mains below floor slabs are encountered and conflict with new underground utilities shall be cut off with all pipe caps on both sides of new main and both ends of existing sealed permanently as noted above. All pipe caps/plugs of removed pipe penetrations shall be replaced with new materials and restoration of existing floor with new finish materials (Coordinate with General Contractor in field)

Remove existing ceiling tiles and grids as required to obtain access to ceiling space for the installation of piping above ceiling. Verify existing ceiling tiles and grids in a safe location and re-install the same once his work is completed and inspected. Provide additional temporary hangers/cables required to support remaining ceiling structure, light fixtures, ceiling devices, etc. during this contractor's work. remove all temporary facilities once work is completed.

Upon reconnection of existing systems following temporary shutdowns, P.C. shall verify proper functioning of all connected fixtures and equipment. All systems, piping and equipment shall be returned to normal operational positions.

# CONTRACTOR RESPONSIBILITY

**FLOOR:** PLUMBING CONTRACTOR TO CUT FLOOR AS REQUIRED BY THE DOCUMENTS AND TO REPAIR FLOOR TO SUBFLOOR LEVEL AND PREPARE A SMOOTH SUBSTRATE FOR FINAL FLOORING FINISH WHEN WORK IS COMPLETE. GENERAL CONTRACTOR TO PROVIDE FINISH FLOOR MATERIAL AND TO FLASH PATCH AS REQUIRED TO PREPARE FLOOR SURFACE FOR FINISHING. THERE EXISTING AREAS WHERE EXISTING FLOORING IS TO BE REMOVED, THE MATERIALS CONTRACTOR SHALL REMOVE/CANCRUSULATE ASBESTOS CONTAINING MASTIC AND PROVIDE A LEVEL SUBSTRATE FOR INSTALLATION OF NEW FLOOR BY GENERAL CONTRACTOR. GENERAL CONTRACTOR TO PREPARE FLOOR AS REQUIRED TO OBTAIN SMOOTH FINISHED SURFACE.

**WALLS:** ALL WALL OPENINGS IN VISIBLE AREAS OF THE FINAL DESIGN WILL BE PATCHED BY GENERAL CONTRACTOR. FOR ALL OPENINGS IN AREAS NOT VISIBLE IN FINAL DESIGN (I.E. ABOVE CEILINGS) THE MECHANICAL CONTRACTOR, PLUMBING CONTRACTOR, ELECTRICAL CONTRACTOR, AND SPRINKLER CONTRACTOR WILL CUT HOLES AND PATCH FOR THEIR RESPECTIVE SCOPE OF WORK.

**CEILING:** GENERAL CONTRACTOR TO REMOVE ALL CEILING TILES AND GRID AND REINSTALL TO SUPPLY AND INST. REPAIRS TO ALL SCOPE OF WORK AREAS AFTER PLUMBING CONTRACTOR, MECHANICAL CONTRACTOR, ELECTRICAL CONTRACTOR, AND SPRINKLER CONTRACTOR WORK IS COMPLETE. EACH INDIVIDUAL CONTRACTOR WILL BE REQUIRED TO CUT THEIR OWN CEILING TILES FOR THEIR RESPECTIVE DEVICES.

**ROOF:** PLUMBING CONTRACTOR TO CUT ROOF FOR VENT LINES. GENERAL CONTRACTOR TO SUPPLY AND INST. REPAIRS TO ALL SCOPE OF WORK AREAS INCLUDING ROOF DRAINAGE STEEL. GENERAL CONTRACTOR SHALL COORDINATE REQUIRED STEEL AT OPENINGS WITH MECHANICAL PLANS. ROOFING CONTRACTOR TO PATCH AND FLASH NEW ROOF AT ALL PENETRATIONS AND DRAINAGES. ROOFING CONTRACTOR TO PROVIDE TEMPORARY WEATHER PROTECTION AS REQUIRED AT ALL PENETRATIONS AND OPENINGS.

**CONCRETE PADS:** THE PLUMBING CONTRACTOR, MECHANICAL CONTRACTOR, ELECTRICAL CONTRACTOR AND SPRINKLER CONTRACTOR SHALL PROVIDE ALL CONCRETE EQUIPMENT AND MAINTENANCE PADS FOR THEIR RESPECTIVE SCOPE OF WORK. GENERAL CONTRACTOR TO PROVIDE CONCRETE PADS AT EXTERIOR OF ALL EXTERIOR DOORS.

**PIPE WORK FOR UTILITIES:** SITE CONTRACTOR TO PROVIDE SANITARY SEWER AND STORMWATER UTILITIES FROM CONNECTION POINTS TO EXISTING TO WITHIN 3' (9" U.O.I) OF EXISTING UTILITIES. EXISTING UTILITIES TO BE EXPOSED TO THE NUTTING AND GRADING SERVICE TO MEET INCLUDING TRENCHING AND BACKFILLING IS BY PECCO. RESTORATION OF PAVING IS BY SITE CONTRACTOR. EXISTING GAS METER TO REMAIN. PLUMBING CONTRACTOR SHALL PROVIDE GAS METER PROTECTION AT THE NUTTING AND GRADING EXISTING GAS METER. DOMESTIC WATER AND FIRE SERVICES ARE EXISTING TO REMAIN.

**GENERAL:** PRIME CONTRACTORS SHALL CUT ALL REQUIRED OPENINGS. GENERAL CONTRACTOR TO PATCH VISIBLE OPENINGS.

**REFER TO SPECIFICATIONS SECTION 011200 - MULTIPLE CONTRACT SUMMARY FOR SCOPE OF WORK**

PLUMBING GENERAL NOTES	
	Provide all labor, material, and equipment required for the completion and operation of all systems specified within the Division 22 specification sections and Division 21 work of record in accordance with all applicable codes including but not limited to PA Uniform Construction Code (PA-UCC), International Plumbing Code (IPC), ICC/ANSI A117.1 - Accessible and Usable Buildings and Facilities, International Building Code (IBC), International Fuel Gas Code (IFGC). Verify the latest adopted code editions and any additional adopted amendments with the Local Authority Having Jurisdiction(AHJ) Prior to beginning work.
1.	Coordinate connection of all Water, Sewer, and Gas utility services with the associated Utility provider. Coordination includes but is not limited to: pre-installation verification of all required connection/valving details, arrangements and performing of all required tests and inspections, supports/base pads for meter installation, and final service activation.
2.	Provide a complete domestic water, gas and wastewater systems for all fixtures and/or equipment required such, verify all rough-in locations and provide all necessary equipment and materials under the following specifications to avoid conflicts.
3.	Provide all plumbing fixtures and appliances complete with all required supplies, stops, valves, faucets, drains, traps, tail pieces, elbow hangers, etc. All fixture traps shall be semi-seal type, removable and/or provided with access for cleanout. All stops and shutoff valves shall be quarter turn style and installed in a readily accessible locations.
4.	All plumbing fixtures, equipment, and materials shall be new and shall fit the space available. Verify dimensions at site are adequate prior to order of any materials.
5.	All piping, apparatus, equipment, etc. shall be properly supported, braced vertically and horizontally in accordance with applicable codes and standards.
6.	Do not scale the plans. See architectural plans for exact location of doors, windows, fixtures, wall dimensions, equipment, devices, etc. Coordinate exact locations of fixtures, equipment, specialties, and piping in field prior to rough-in.
7.	All valves, cleanouts, plumbing specialties, etc., shall be so located and installed to permit access for service without damage to building or finished materials.
8.	In addition to cleanouts indicated on the plumbing drawings, provide cleanouts at base of all waste and rainwater stacks, at all changes in direction of piping in excess of 45 degrees and every 50 feet. Floor cleanouts shall be installed flush with finished floor. All cleanouts shall be installed and installed to permit access for service without damage to building or finished materials, wall cleanouts shall be minimum 18" A.F.F. Wall cleanouts covers shall be stainless steel or brass where directed by architect provide primer painted steel coverplates to receive final painted finish, same as wall finish. (final paint by GC)
9.	All exposed supply and waste piping in rest room areas shall be chrome plated brass, with matching stops and escutcheons.
10.	Sanitize domestic water piping in accordance with IFC requirements, Local Health Department, and American Water Works Association (AWWA) Sanitary Pipe and Fittings Report and test results to Owner. Contractor shall sanitize and flush domestic water system at the end of each phase.
11.	All domestic water piping shall be hung level without pitch unless noted otherwise on plans.
12.	Protect copper piping against contact with dissimilar metals. All hangers, supports, anchors, and clips shall be copper or copper plated. Where copper piping is carried on iron trapeze hangers with other piping, satisfactory and permanent electrolytic isolation material shall prevent contact with other metals.
13.	Protect copper piping against contact with all masonry. Where copper is sleeved through masonry, copper or red brass sleeves shall be used. Where copper must be concealed in or against masonry partitions, contact shall be prevented by coating the copper head and the masonry and 1/2" asphalt saturated felt between the pipe and the masonry partition.
14.	Install piping in areas not subject to freezing temperatures. Water piping in exterior walls shall be installed on conditioned side of the wall insulation.
15.	Provide shock absorbers, supports and stops at each fixture as required. Exposed stops shall be chrome plated.
16.	Provide drain valves at all low points of domestic water piping systems for complete drainage and indicate location of same on record drawings.
17.	Provide vacuum breakers as required by code.
18.	Vent all plumbing fixture drains in accordance with all applicable codes.
19.	Verify all fixture mounting heights with architectural interior elevations, schedules, etc. prior to fixture installation. Verify locations of Accessible fixtures and install in strict accordance with ICC/ANSI A117.1 requirements.
20.	"Provide sleeves at all wall/floor penetrations. Coordinate sleeves with GC for installation in wall/floor construction. In exposed areas provide chrome plated escutcheons at pipe penetrations.
21.	Seal all fire rated floor and wall penetrations with fire stopping materials as specified in the Div. 7 specifications. Where firestopping materials are not specified in Div. 7, provide firestopping materials U.L. listed for use and as manufactured by 3m or equal."
22.	Install ball style shutoff valves for the entire domestic water system. Ball valves shall be furnished with blowout proof stem, insulated expansion handles, and chrome plated ball.
23.	Insulate all domestic water piping. Refer to specifications for additional information.
24.	Seal all fixtures to fixtures, floor, counters, etc., using a sanitary-type one-part, mildew resistant, silicone sealant, match sealant color to fixture color.
25.	Install all underground sanitary/Storm piping at 2% slope unless noted otherwise).
26.	Install all above ground waste, rainwater, emergency rainwater piping at 2% slope (unless noted otherwise).
27.	Install all above ground vent piping at 1% slope (unless noted otherwise).
28.	Install all above ceiling cleanouts in locations above accessible ceiling construction. Coordinate exact locations in field. No cleanouts shall be installed within plenum ceilings.
29.	Coordinate all floor drain locations with all trades and associated equipment and architectural plans prior to rough-in.
30.	Provide all floor drains with deep seal traps (unless noted otherwise) and trap seal protection.
31.	Install cleanouts required at each at all locations where storm and sanitary laterals exit building. Contractor shall coordinate required inlet elevations with site contractor prior to installation, and make final connection to site Sanitary/Storm piping with all required fittings.
32.	Verify all "Accessible" toilet locations on Architectural plans. Installation of flushing level urinals shall comply with ANSI A117.1 and shall be mounted on the accessible (wide) side of toilet no more than 44 inches above the finished floor. Coordinate rough-ins of all supplies, flush valves, sensors, etc., to avoid conflict with grab bars or other toilet accessories.
33.	All piping located in return air plenums shall conform to the flame spread and smoke developed limits of ASTM E84 as furnished with U.L. approved plenum rated material.
34.	In finished spaces with exposed structure, provide and install 1" thick "fiberglass insulation with all-service jacket" in lieu of insulation specified. Prep and paint pipe insulation in color selected by Architect.
35.	All fixture trim, including faucets, strainers, escutcheons, stops, waste traps, visible waste piping or visible hangers shall be made of brass and shall be polished chrome plated. Plastic, zinc, or white metal will not be acceptable.
36.	Install all exposed horizontal and vertical piping in a neat arrangement in locations which are the most inconspicuous. Vertical drops shall be coordinated and run within chases, walls, soffits with other mechanical / electrical feeds. All such work is to be reviewed by the Owner representative and subject prior to installation.
37.	Provide domestic water heater /ventilation / pressure relief valves with discharge pipe full size to the nearest approved floor drain or waste receptor.
38.	Provide flexible expansion joints in piping systems at all locations where piping crosses horizontal / vertical building expansion joints. Refer to specifications for expansion joint information/s and refer to architectural drafts, for horizontal / vertical expansion joint locations.
39.	All at all locations where indirect/special waste connections are indicated or called for by the plumbing drawings, the installation of such connections shall be in strict compliance with IPC 2015 Chapter 8.
40.	At all locations associated with fixtures, equipment, etc., which could discharge waste water in excess of 140F (Boiler Rooms, Commercial Kitchens, etc.), provide cast iron waste / sanitary piping (hub and spigot if below grade and no-hub if located above grade). Cast iron piping shall be installed minimum 25 ft. beyond the most downstream fixture connection.
41.	Provide cast iron piping for all below floor kitchen waste / kitchen sanitary piping (hub and spigot if below grade and no-hub if located above grade) at all locations associated with kitchen and warewashing areas and similar spaces. Exposed kitchen waste piping above floor shall be galvanized steel as specified.
42.	All rainwater and waste piping drops to below grade within the building shall start at minimum (-) 10" below finished floor elevation with the first elbow connection below bottom of floor slab (unless noted otherwise). Where floor cleanouts are provided minimum starting pipe elevation shall be (-) 18" (unless noted otherwise).
43.	Provide thermal expansion control equipment/specialties on all segments of hot water and hot water return piping exceeding 50ft. and at intervals not to exceed 100'. Thermal expansion control equipment shall include pipe anchors, pipe guides, thermal expansion loops. Expansion loops shall be sized as specified and verified by manufacturer's calculation to be adequate to accommodate thermal expansion of the applicable piping system.
44.	All piping penetrations through exterior wall shall be sealed weathertight. Piping penetrations through foundation walls shall be sleeved and provided with Link Seal Primer/annual sealer seals.
45.	Provide corrosion inhibiting epoxy seal thundure on all exterior gas piping. Clean and prep piping surface and verify color to be used with architect prior to application.
46.	Provide emergency energized(EW-1) emergency tempering valves, and cold water hose bibb connection with all associated supply piping at all non-receptor locations. For additional information refer to "Mojo Receptor and Accessories Detail" on plumbing details drawings. Coordinate exact location of accessories in field with owner representative prior to rough in of accessories/fixtures.
47.	All piping drops to fixtures, shall be concealed within wall or chase construction, unless noted otherwise.
48.	Include in this bid the cost for the removal of 5" floor pipe insulation, fitting insulation, etc., on both sides of the point where a new domestic water (hot, cold, return), rainwater, emergency rainwater, etc. is made to the existing mains/branches through the building. Notify owner of this process as the work is started. Keep detailed drawings of work completed, indicating areas of difficulty or concern. Provide owners representative with complete and detailed drawings/documentation of this entire process once work is completed.
49.	Where Connection is made to existing below slab sanitary and storm sewer mains/laterals, provide high pressure hydro-flushing (similar to service provided by Mr. Rooter Hydro Scrubber 4000 machine) from point of connection to building exterior. Notify owner of this process as the work is started. Keep detailed drawings of work completed, indicating areas of difficulty or concern. Provide owners representative with complete and detailed drawings/documentation of this entire process once work is completed.

BLACKNEY  
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Project:  
Mary C. Howse  
Elementary

Project Address:  
641 Boot Road  
West Chester, PA 19380

Sheet Title:  
COVER SHEET -  
PLUMBING

Seal

**DUTY TO INSPECT CONTRACT DOCUMENTS PRIOR TO STARTING WORK:**  
Any party who relies in part or whole on the content of these Construction Documents shall, before beginning work, be responsible for fully inspecting the complete set of Contract Documents, including all Drawings, Specifications, and Addenda, for completeness, conflicts, scope of work, and suitability for constructing the project. Each party shall be deemed to have represented that they have expertise in the area of their responsibility and are knowledgeable regarding industry standards, product requirements and code requirements and are qualified to identify and fully interpret the contract documents. All parties relying on these documents must, prior to beginning work, submit all requests for clarifications and additional information to the Architect in writing. All parties who begin work without verifying that the documents are suitable for their intended purposes unless noted in specific written exception beforehand.

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[illegible]

BHA Job Number: 22-114

Scale: NO SCALE

Drawn By: BLM

Checked By: KJF

Approved By: JRM

Sheet No. \_\_\_\_\_

\_\_\_\_\_

Room

# FOOO

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See

**DUTY TO INSPECT CONTRACT DOCUMENTS PRIOR TO STARTING WORK:**  
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[illegible]

BHA Job Number: 22-114

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Sheet Title:

## PHASING PLAN - PHASE 2

Seal

## DUTY TO INSPECT CONTRACT DOCUMENTS PRIOR

**TO STARTING WORK:**  
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[illegible]

BHA Job Number: 22-114

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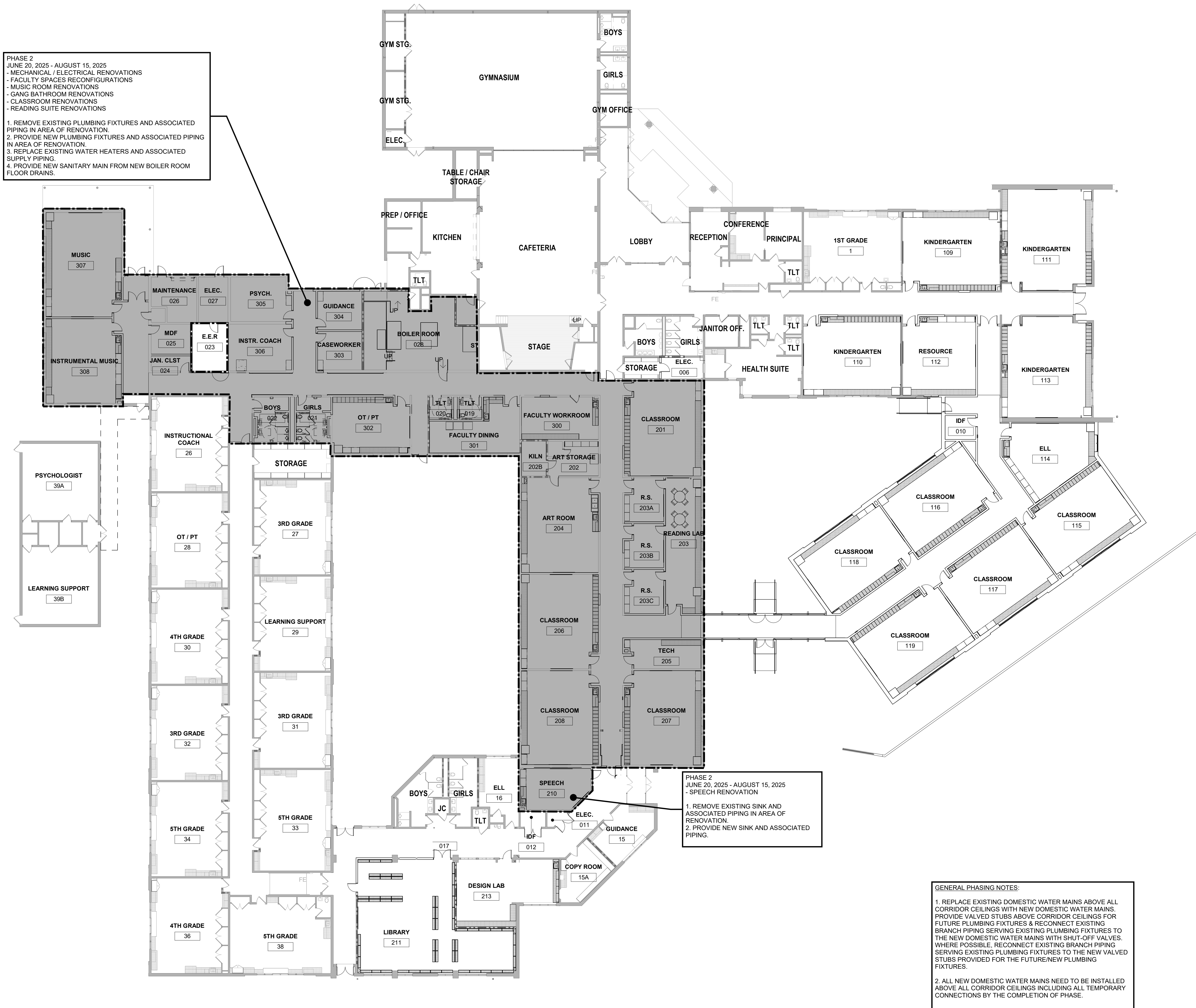
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1/16" = 1'-0"

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Project Address:  
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## PHASING PLAN - PHASE 3

Seal

**DUTY TO INSPECT CONTRACT DOCUMENTS PRIOR TO STARTING WORK:**

Any party who relies in part or whole on the content of these Construction Documents shall, before beginning any work, be responsible for fully inspecting the complete set of Contract Documents, including all Drawings, Specifications, and Addenda, for completeness, conflicts, omissions, and errors, and for determining the proper scope of work, and suitability for constructing the building. All parties relying on these documents represent and warrant that they have expertise in the area of their responsibility and are knowledgeable regarding industry standards, product requirements and code requirements and therefore are qualified to fully evaluate and interpret the contract documents. All parties relying on these documents shall be responsible for submitting all requests for clarifications and additional information to the Architect in writing. **All parties who begin work hereby certify that the documents are suitable for their intended purposes unless noted in specific written exception beforehand.**

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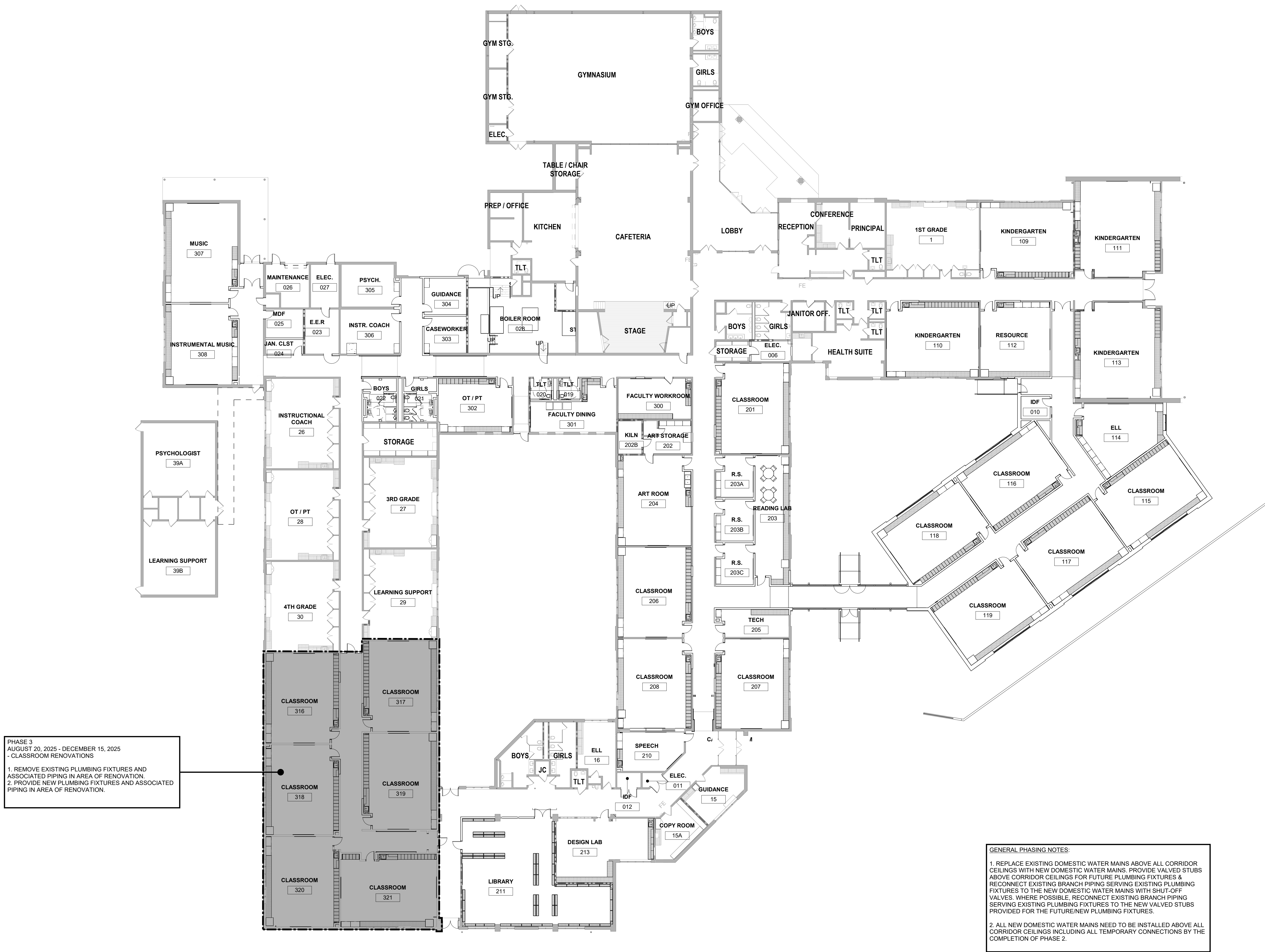
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① PHASING PLAN - PHASE 3 - PLUMBING  
1/16" = 1'-0"

$$1/16'' = 1'-0''$$



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Mary C. Howse  
Elementary

Project Address:  
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West Chester, PA 19380

Sheet Title:

## PHASING PLAN - PHASE 4

Seal

## DUTY TO INSPECT CONTRACT DOCUMENTS PRIOR

**TO STARTING WORK:**  
Any party who relies in part or whole on the content of these Construction Documents shall, before beginning any work, be responsible for fully inspecting the complete set of documents, including all Drawings, Specifications, and Addenda, for completeness, conflict, and consistency. It is the responsibility of the party who relies on these documents for building. All parties relying on these documents represent that they have expertise in the area of their responsibility and are responsible for regarding industry standards, product requirements and code relating to their work, and therefore are qualified to fully evaluate and interpret the contract documents. All parties relying on these documents must, prior to beginning work, submit all requests for clarifications and additional information to the Architect. The Architect does not warrant or otherwise hereby certify that the documents are suitable for their intended purposes unless noted in specific written exception beforehand.

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### GENERAL PHASING NOTES

1. REPLACE EXISTING DOMESTIC WATER MAINS ABOVE ALL CORRIDOR CEILINGS WITH NEW DOMESTIC WATER MAINS. PROVIDE VALVED STUBS ABOVE CORRIDOR CEILINGS FOR FUTURE PLUMBING FIXTURES & RECONNECT EXISTING BRANCH PIPING SERVING EXISTING PLUMBING FIXTURES TO THE NEW DOMESTIC WATER MAINS WITH SHUT-OFF VALVES. WHERE POSSIBLE, RECONNECT EXISTING BRANCH PIPING SERVING EXISTING PLUMBING FIXTURES TO THE NEW VALVED STUBS PROVIDED FOR THE FUTURE/NEW PLUMBING FIXTURES.

2. ALL NEW DOMESTIC WATER MAINS NEED TO BE INSTALLED ABOVE ALL CORRIDOR CEILINGS INCLUDING ALL TEMPORARY CONNECTIONS BY THE COMPLETION OF PHASE 2.

① PHASING PLAN - PHASE 4 - PLUMBING  
1/16" = 1'-0"

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## PHASING PLAN - PHASE 5

Seal

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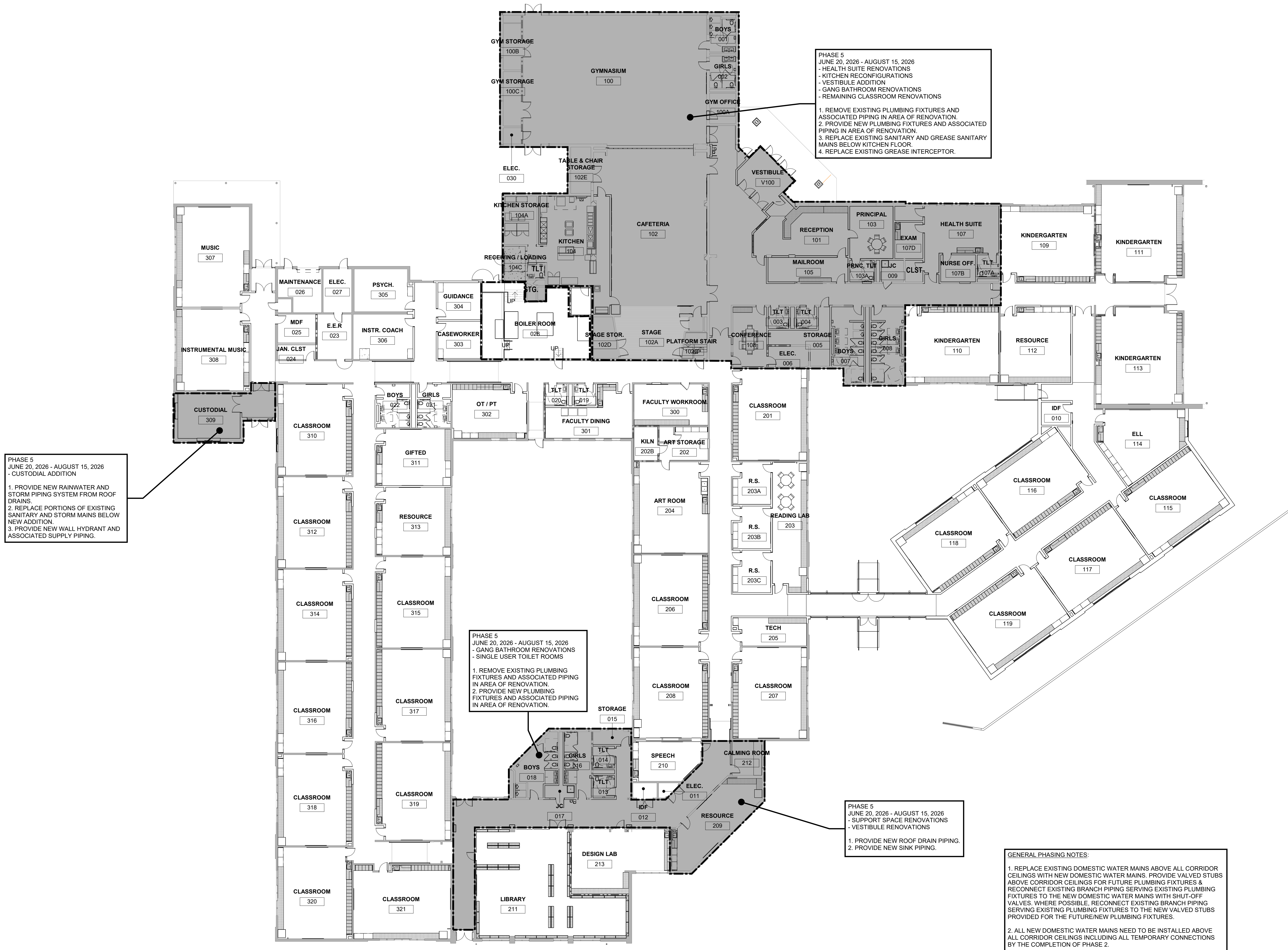
Approved B

Sheet No.

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① PHASING PLAN - PHASE 5 - PLUMBING  
1/16" = 1'-0"

PO



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PLUMBING FIXTURE LIST					
REFER TO PROJECT SPECIFICATION MANUAL FOR COMPLETE SPECIFICATION INFORMATION					
FIXTURE TAG	FIXTURE DESCRIPTION	VALVE/FAUCET ACCESSORIES	ROUGH-IN CONNECTION SIZES		
			DRAIN	HOT	COLD
SINK-1 	Sink (General/Classroom Sinks) Self Rimming, 20 in. (W) x 22 in. (L) x 5-1/2 in. deep, Single Bowl, 18 Gauge Stainless Steel, w/ear Faucet Ledge ALL CLASSROOM SINKS SHALL HAVE BUBBLER	Faucet: Chrome Plated Cast Brass Body, 8" Rigid/Swing Gooseneck Stop, Wrist Blade Handles, 1.5 gpm Aerator Bubbler: Sink Mounted Bubbler Provide with 17 Gauge Cast Brass C.P. Grid Strainer & Tailpiece & P-Trap, Chrome Plated Copper Supplies w/Loose Key Quarter-Turn Chrome Plated Brass Supply Stops	1-1/2"	1/2"	1/2"
SINK-2 	Sink (Exam) Self Rimming, 18 in. (W) x 15 in. (L) x 5-1/2 in. deep, Single Bowl, 18 Gauge Stainless Steel, w/ear Faucet Ledge	Faucet: Chrome Plated Cast Brass Body, 8" Rigid/Swing Gooseneck, Spout, 4" Wristblade Handles, 1.5 gpm Aerator Provide with 17 Gauge Cast Brass C.P. Grid Strainer & Tailpiece & P-Trap, Chrome Plated Copper Supplies w/Loose Key Quarter-Turn Chrome Plated Brass Supply Stops	1-1/2"	1/2"	1/2"
SINK-3 	Sink (Health Suite) Self Rimming, 19 in. (W) x 21 in. (L) x 5-1/2 in. deep, Single Bowl, 18 Gauge Stainless Steel w/ear Faucet Ledge. Provide Deck Mounted Emergency Eyewash	Faucet: Chrome Plated Cast Brass Body, 8" Rigid/Swing Gooseneck, Spout, 4" Wristblade Handles, 1.5 gpm Aerator Provide Deck mounted Emergency Drench Hose and Emergency Tempering Valve. Provide with 17 Gauge Cast Brass C.P. Grid Strainer & Tailpiece & P-Trap, Chrome Plated Copper Supplies w/Loose Key Quarter-Turn Chrome Plated Brass Supply Stops	1-1/2"	1/2"	1/2"
SINK-4 	Sink (Faculty Work Room) Self Rimming, 19 in. (W) x 21 in. (L) x 5-1/2 in. deep, Single Bowl, 18 Gauge Stainless Steel w/ear Faucet Ledge.	Faucet: Chrome Plated Cast Brass Body, 8" Rigid/Swing Gooseneck, Spout, 4" Wristblade Handles, 1.5 gpm Aerator Provide with 17 Gauge Cast Brass C.P. Grid Strainer & Tailpiece & P-Trap, Chrome Plated Copper Supplies w/Loose Key Quarter-Turn Chrome Plated Brass Supply Stops	1-1/2"	1/2"	1/2"
SINK-5 	Sink (Faculty Dining) Self Rimming, 19 in. (W) x 21 in. (L) x 5-1/2 in. deep, Single Bowl, 18 Gauge Stainless Steel, w/ear faucet ledge	Faucet: Chrome Plated Cast Brass Body, 8" Swivel Spout, Single Lever Handle with 1.5 gpm Aerator, and Hose & Spray Provide with 17 Gauge Cast Brass C.P. Grid Strainer & Tailpiece & P-Trap, Chrome Plated Copper Supplies w/Loose Key Quarter-Turn Chrome Plated Brass Supply Stops.	1-1/2"	1/2"	1/2"
SINK-6 	Sink (Art Room) SINK (ADA): Self Rimming, 21 in. (W) x 25 in. (L) x 5-1/2 in. deep, Single Bowl, 18 Gauge Stainless Steel, w/ear faucet ledge	Faucet: Chrome Plated Cast Brass Body, 8" Rigid/Swing Gooseneck, Spout, 4" Wristblade Handles, 1.5 gpm Aerator Provide with S.S. Basket Strainer w/Chrome Plated 17 Gauge Tailpiece, Chrome Plated Copper Supplies w/Loose Key Quarter-Turn Chrome Plated Brass Supply Stops. Provide Solids Interceptor/Plaster Trap. Refer to Drawings & Specifications	1-1/2"	1/2"	1/2"
SINK-7 	Sink (Art Room) SINK: 74 in x 23 1/16 in x 12 in. deep, Double bowl, 16 Gauge Stainless Steel	Faucet: Chrome Plated Cast Brass Body, 8" Body, 12" L Type Swing Spout, 2-3/8" Vandal Proof Lever Handles, 2.2 gpm Aerator, Provide with S.S. Basket Strainer w/Chrome Plated 17 Gauge Tailpiece, Chrome Plated Copper Supplies w/Loose Key Quarter-Turn Chrome Plated Brass Supply Stops. Provide Solids Interceptor/Plaster Trap. Refer to Drawings & Specifications	1-1/2"	1/2"	1/2"
SINK-8 	Hand Sink (Kitchen) Wall Hung, 16-3/4 in x 15-1/2 in x 5.5 in. deep, Single bowl, 20 Gauge, 304 Stainless Steel, 7" backsplash, Z-clip Mounting Bracket	Faucet: Faucet, Drain Fitting & P-Trap furnished with Sink. Provide Below Deck Thermostatic Mixing Valve (ASSE 1070), Chrome Plated Copper Supplies w/Loose Key Quarter-Turn Chrome Plated Brass Supply Stops	1-1/2"	1/2"	1/2"
SINK-9 	Sink (Food Prep Sink) 72 in x 30 in x 36 in. high, 18 Gauge 304 Stainless Steel Table with 16 in x 20 in x 10 in deep Single Bowl Sink, Includes Basket Strainer & Tailpiece	Chrome Plated 14" Long Swing Spout w/Vandal Proof Lever Handles, 1.5 gpm Aerator. Provide with Chrome Plated Copper Supplies w/Loose Key Quarter-Turn Chrome Plated Brass Supply Stops.	1-1/2"	1/2"	1/2"
SINK-10 	Sink (Triple Sink) 114 in. x 31 in. x 37-1/2 in. high with three 24 in x 24 in. x 14 in. deep Compartments, 14 Gauge 300 Series Stainless Steel w/Drainboards, Include Optional Lever Faucet. Provide 3-1/2" Basket Strainers and Tailpieces	1.0 gpm Spray Valve w/Vandal Proof Lever Handles with Integrated Check Valves, Chrome Plated 44" Flexible S.S. Hose with Insulated Handle, 14" L Type Swing Spout, Full Flow Outlet.	1-1/2"	1/2"	1/2"
WB-1	Washdown Connection Box (Gang Toilet Areas) SS Recessed Box with Locking Cover, 3/4" Hose Connection w/Backflow Preventer.	Cold shutoff valve w/ integral stop	----	----	3/4"
UR-1 	Urinal - Wall Mounted (Gang Toilet Rooms) Top Spud, Vitreous China (White), ADA Compliant. Provide with compatible concealed urnal support and all required mounting hardware	Hard Wired Sensor Flush Valve (0.5 gpf) - Chrome Plated, Exposed, Diaphragm Type, Top Spud, Vacuum Breaker, Chrome Plated Angle Stop with Chrome Plated Cover Tube and Cast Wall Flange	2"	----	3/4"
UR-2 	Urinal - Wall Mounted (Gym Toilet Room) Top Spud, Vitreous China (White), ADA Compliant. Existing carrier to remain.	Manual Operated Flush Valve (0.5 gpf) - Chrome Plated, Exposed, Diaphragm Type, Top Spud, Vacuum Breaker, Chrome Plated Angle Stop with Chrome Plated Cover Tube and Cast Wall Flange.	2"	----	3/4"
WC-1 	Water Closet (Student Gang & Single Toilet Rooms & Nurse) Wall Mounted Top spud, Vitreous China (White) Provide with Compatible Adjustable Height Water Closet Carrier and all required Mounting Hardware.	Hard Wired Sensor Flush Valve (1.6 gpf) - Chrome Plated, Exposed, Diaphragm Type, Top Spud, Vacuum Breaker, Chrome Plated Angle Stop, White Seat with S.S. Self Sustaining Check Hinges	4"	----	1-1/4"
WC-2 	Water Closet (Faculty Toilet Rooms & Gym Toilets) Wall Mounted, Top spud, Vitreous China (White) Provide with Compatible Adjustable Height Water Closet Carrier and all required Mounting Hardware. Connect to existing carrier for Gym Toilet Rooms.	Manual Flush Valve (1.6 gpf) - Chrome Plated, Exposed, Diaphragm Type, Top Spud, Vacuum Breaker, Chrome Plated Angle Stop, White Seat with S.S. Self Sustaining Check Hinges	4"	----	1-1/4"
WC-3 	Water Closet (Kitchen Toilet Room) Floor Mounted, Top spud, Vitreous China (White) Provide wax gasket.	Manual Flush Valve (1.6 gpf) - Chrome Plated, Exposed, Diaphragm Type, Top Spud, Vacuum Breaker, Chrome Plated Angle Stop, White Seat with S.S. Self Sustaining Check Hinges	4"	----	1-1/4"

**NOTES:**

- P.C. shall field verify all "Accessible"/ADA plumbing fixture locations. "Accessible"/ADA plumbing fixture installation shall be in accordance with ICC/ANSI A117.1. Verify fixture installation heights, locations, etc. with Architectural drawings prior to rough-in.
- P.C. shall field verify all "Accessible"/ADA water closet locations. Installation of flushing lever actuator shall comply with ICC/ANSI A117.1. Flush control for flush valves shall be installed on the "accessible" wide side of a water closet compartment, no more than 44 inches above finish floor.
- All lavatories and public handwash sinks shall be provided with ASSE-1070 compliant thermostatic mixing valves set at a maximum 110°F outlet temperature.

Project:

Mary C. Howse  
Elementary

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Sheet Title:

## FIXTURE LIST - PLUMBING

Seal

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### Discussion

01 01

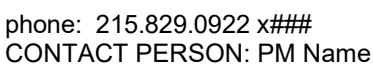
# 10

## Discussion

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# PD1.01A





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Sheet Title:  
DEMOLITION PLAN  
AREA 'C' - DRAIN &  
VENT PIPING

See

DUTY TO INSPECT CONTRACT DOCUMENTS PRIOR TO BIDDING

**TO STARTING WORK:**  
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Checked By: KJF

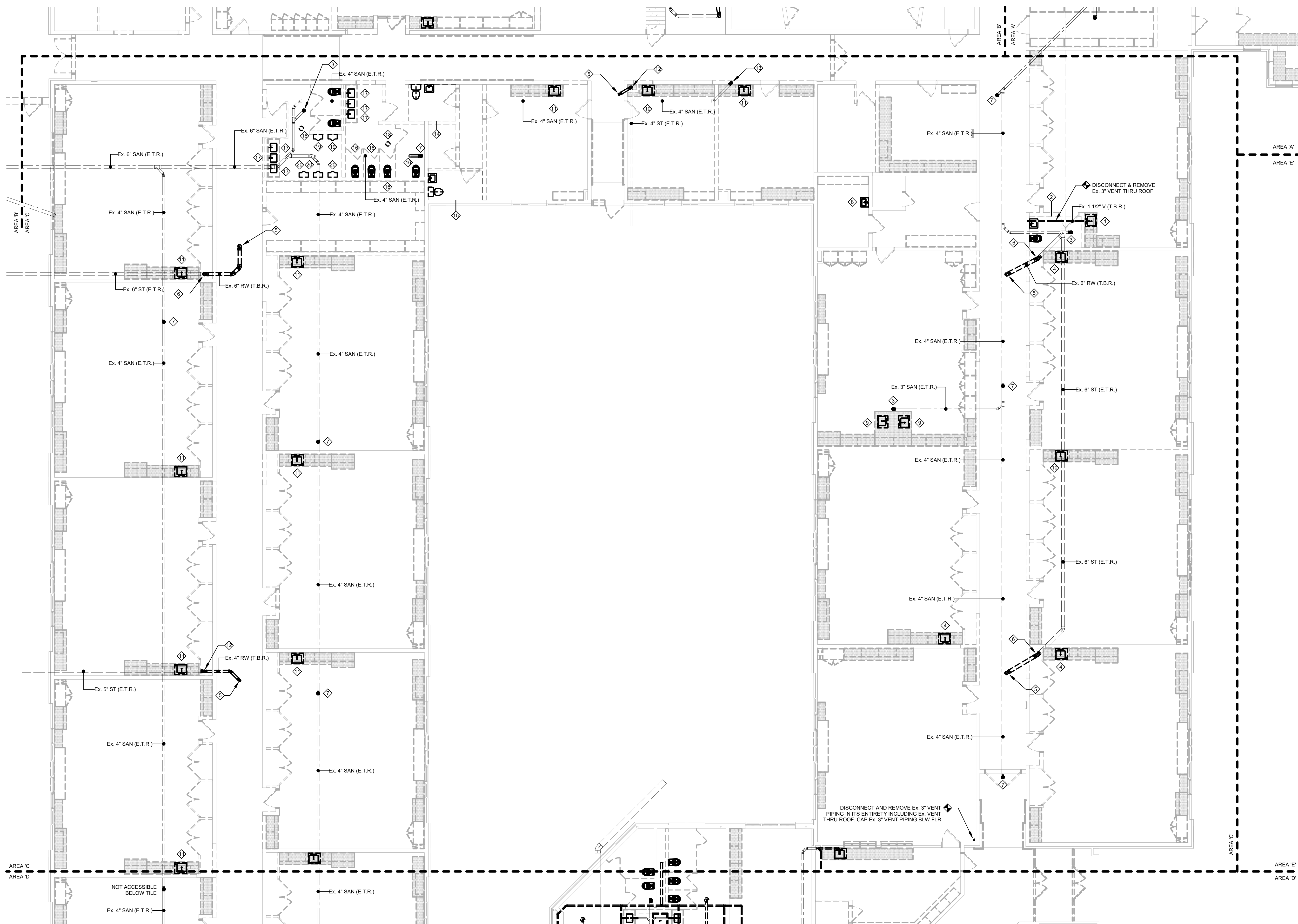
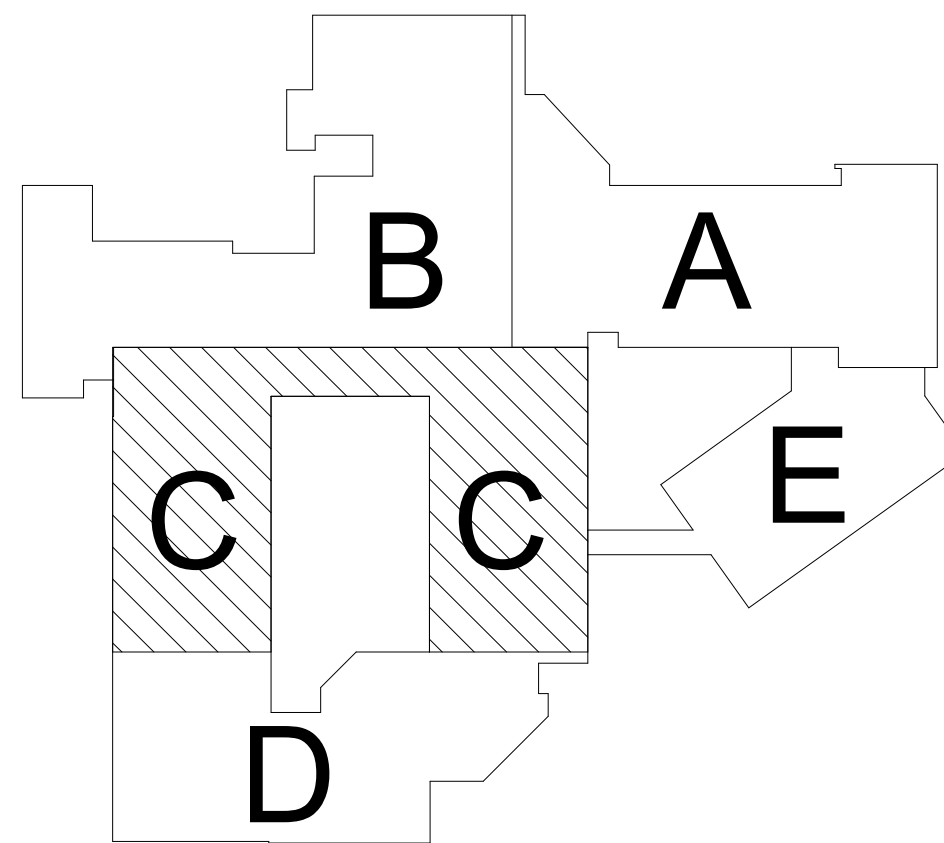
Approved By: JRM

Sheet No.

# PD1.01C

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NOT FOR CONSTRUCTION



1 DEMOLITION PLAN - AREA 'C' - DRAIN & VENT PIPING  
1/8" = 1'-0"







**OWNER**  
West Chester Area School District  
phone: 484.266.1281  
**CONTACT PERSON:** Damon Gonzaga

**STRUCTURAL ENGINEER**  
Baker, Ingram & Associates  
phone: 856.310.1491  
CONTACT PERSON: Brian D. McGlade, PE

**MEP & FP**  
Snyder Hoffman Associates, Inc.  
phone: 610.694.8020  
CONTACT PERSON: Jeff Mach

DISCONNECT & REMOVE EXISTING SINK AND TRIM IN THEIR ENTIRETY INCLUDING EXISTING SUPPLY PIPING IN DEMOLISHED CASEWORK. VERIFY EXACT CONDITIONS IN FIELD & REFER TO DEMOLITION NOTE 2.

DISCONNECT & REMOVE EXISTING SUPPLY PIPING IN CHASE AND ABOVE CEILING IN ITS ENTIRETY. VERIFY EXACT CONDITIONS IN FIELD.

DISCONNECT & REMOVE EXISTING FLOOR MOUNTED WATER CLOSET AND FLUSH VALVE & EXISTING HUNG LAVATORY AND TRIM IN THEIR ENTIRETY INCLUDING ALL EXISTING EXPOSED SUPPLY PIPING AND SUPPLY PIPING ABOVE CEILING. VERIFY EXACT CONDITIONS IN FIELD.

DISCONNECT & REMOVE EXISTING HUNG LAVATORY AND TRIM IN THEIR ENTIRETY INCLUDING EXISTING EXPOSED SUPPLY PIPING AND SUPPLY PIPING ABOVE CEILING. VERIFY EXACT CONDITIONS IN FIELD.

DISCONNECT & REMOVE EXISTING ELECTRIC WATER COOLER AND TRIM IN THEIR ENTIRETY INCLUDING EXISTING EXPOSED SUPPLY PIPING AND SUPPLY PIPING ABOVE CEILING TO REMAIN AND REMOVE EXISTING SUPPLY PIPING ABOVE CEILING IN ITS ENTIRETY. VERIFY EXACT CONDITIONS IN FIELD.

DISCONNECT & REMOVE EXISTING WALL HYDRANT AND EXISTING SUPPLY PIPING IN DEMOLISHED CHASE IN FIELD & REFER TO DEMOLITION NOTE 2. THEIR ENTIRETY. VERIFY EXACT CONDITIONS IN FIELD.

DISCONNECT AND REMOVE EXISTING FLOOR MOUNTED, TANK TYPE WATER CLOSET IN ITS ENTIRETY INCLUDING EXISTING EXPOSED SUPPLY PIPING AND SUPPLY PIPING ABOVE CEILING. VERIFY EXACT CONDITIONS IN FIELD.

DISCONNECT & REMOVE EXISTING SINK AND TRIM IN THEIR ENTIRETY INCLUDING EXISTING EXPOSED SUPPLY PIPING AND SUPPLY PIPING ABOVE CEILING. VERIFY EXACT CONDITIONS IN FIELD.

DISCONNECT & REMOVE EXISTING FLOOR MOUNTED WATER CLOSET AND FLUSH VALVE AND EXISTING HUNG LAVATORY AND TRIM IN THEIR ENTIRETY INCLUDING ALL EXISTING EXPOSED SUPPLY PIPING AND SUPPLY PIPING ABOVE CEILING. VERIFY EXACT CONDITIONS IN FIELD AND REFER TO DEMOLITION NOTE 2.

DISCONNECT & REMOVE EXISTING FLOOR MOUNTED WATER CLOSET AND FLUSH VALVE AND EXISTING HUNG LAVATORY AND TRIM IN THEIR ENTIRETY INCLUDING ALL EXISTING EXPOSED SUPPLY PIPING AND SUPPLY PIPING ABOVE CEILING. VERIFY EXACT CONDITIONS IN FIELD.

DISCONNECT & REMOVE EXISTING SERVICE SINK AND TRIM IN THEIR ENTIRETY CAP EXISTING SUPPLY PIPING IN EXISTING WALL. TO REMAIN AND REMOVE EXISTING SUPPLY PIPING ABOVE CEILING IN ITS ENTIRETY. VERIFY EXACT CONDITIONS IN FIELD.

DISCONNECT & REMOVE EXISTING HUNG WATER CLOSET AND FLUSH VALVE AND EXISTING HUNG LAVATORY AND TRIM IN THEIR ENTIRETY INCLUDING EXISTING SUPPLY PIPING IN DEMOLISHED CHASE AND ABOVE CEILING. VERIFY EXACT CONDITIONS IN FIELD.

DISCONNECT & REMOVE EXISTING FLOOR MOUNTED, TANK TYPE WATER CLOSET AND EXISTING HUNG LAVATORY AND TRIM IN THEIR ENTIRETY INCLUDING ALL EXISTING EXPOSED SUPPLY PIPING AND SUPPLY PIPING ABOVE CEILING. VERIFY EXACT CONDITIONS IN FIELD.

DISCONNECT & REMOVE EXISTING COUNTERTOP LAVATOIRES AND TRIM IN THEIR ENTIRETY INCLUDING EXISTING EXPOSED SUPPLY PIPING BELOW COUNTERTOP AND ABOVE CEILING. VERIFY EXACT CONDITIONS IN FIELD.

DISCONNECT & REMOVE EXISTING FLOOR MOUNTED WATER CLOSET AND FLUSH VALVE IN THEIR ENTIRETY INCLUDING EXISTING SUPPLY PIPING IN DEMOLISHED CHASE AND ABOVE CEILING. VERIFY EXACT CONDITIONS IN FIELD.

DISCONNECT & REMOVE EXISTING WALL HUNG URINAL, SUPPORT AND FLUSH VALVE IN THEIR ENTIRETY INCLUDING EXISTING SUPPLY PIPING IN DEMOLISHED CHASE AND ABOVE CEILING. VERIFY EXACT CONDITIONS IN FIELD.

DISCONNECT & REMOVE EXISTING ELECTRIC WATER COOLER AND TRIM AND CAP EXISTING SUPPLY PIPING IN EXISTING WALL TO REMAIN. REMOVE EXISTING SUPPLY PIPING ABOVE CEILING IN ITS ENTIRETY. VERIFY EXACT CONDITIONS IN FIELD.

DEMOLITION PLAN  
AREA 'A' - SUPPLY  
PIPING

Seal

**STARTING WORK:** Any party who relies in part or whole on the content of these Construction Documents shall, before beginning construction, inspect the documents for the complete set of Contract Documents, including all Drawings, Specifications, and Addenda, for completeness, conflict, and suitability for constructing the building. All parties relying on these documents represent that they have expertise in the area of their responsibility. All parties relying on these documents for design, product requirements and code requirements and drawings are required to fully evaluate and interpret the contract documents. All parties relying on these documents must, prior to beginning work, submit all requests for clarifications and additional information to the Architect. All parties relying on these documents hereby certify that the documents are suitable for their intended purposes unless noted in specific written exception beforehand.

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[illegible]

Scale: As indicated

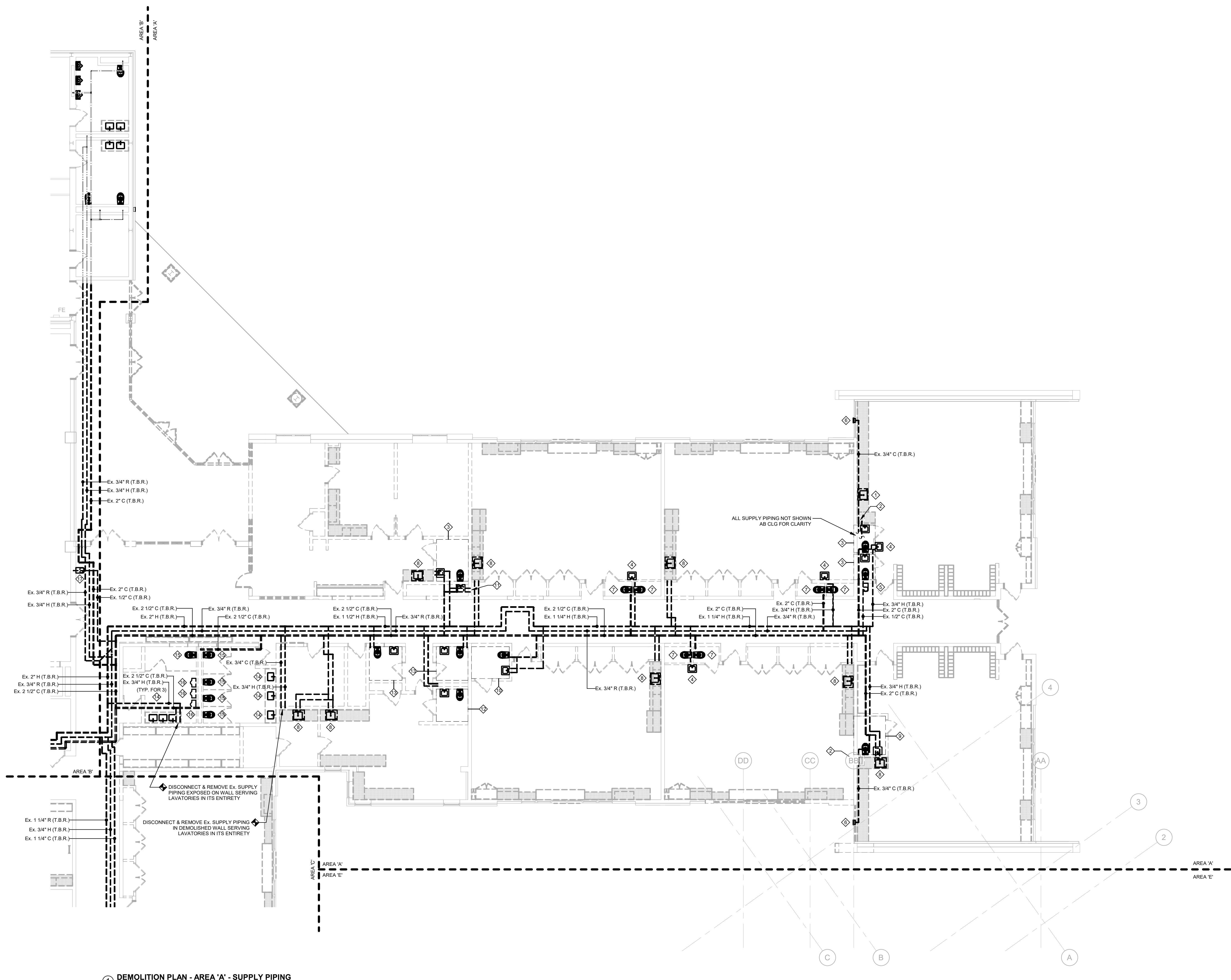
Checked By: KIE

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# PD2.01A

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**NOT FOR CONSTRUCTION**



1 DEMOLITION PLAN - AREA 'A' - SUPPLY PIPING  
1/8" = 1'-0"



**OWNER**  
West Chester Area School District  
phone: 484.266.1281  
**CONTACT PERSON:** Damon Gonzaga

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CONTACT PERSON: Charles J. Olivo, PE

**STRUCTURAL ENGINEER**  
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CONTACT PERSON: Brian D. McGlade, PE

**MEP & FP**  
Snyder Hoffman Associates, Inc  
phone: 610.694.8020  
CONTACT PERSON: Jeff Machik, PE

## Project:

Mary C. Howse  
Elementary

Project Address:  
641 Boot Road  
West Chester, PA 19380

Sheet Title:

DEMOLITION PLAN  
AREA 'B' - SUPPLY  
PIPING

Seal

## DUTY TO INSPECT CONTRACT DOCUMENTS PRIOR

**TO STARTING WORK:**  
Any party who relies in part or whole on the content of these Construction Documents shall, before beginning work, be responsible for fully inspecting the complete set of documents, including all Drawings, Specifications, and Addenda, for completeness, conflicts, omissions, and errors, and for determining the scope of work, and suitability for constructing the building. All parties relying on these documents represent and warrant that they have expertise in the area of their responsibility, and that they are qualified to interpret industry standards, product requirements and code requirements and that they are qualified to fully evaluate and interpret the contract documents. All parties relying on these documents must, prior to beginning work, submit all questions, requests for clarification, and requests for clarification to the Architect in writing. All parties who begin work hereby certify that the documents are suitable for their intended purposes unless noted in specific written exception beforehand.

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[illegible]

BHA Job Number: 22-114

Scale: As indicated

Drawn By: BLM

Checked By: K.IF

Approved By: IRM

Sheet No.

# PD2.01B

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① **DEMOLITION PLAN - AREA 'B' - SUPPLY PIPING**  
1/8" = 1'-0"

**NOT FOR CONSTRUCTION**

**OWNER**  
West Chester Area School District  
phone: 484.266.1281  
**CONTACT PERSON:** Damon Gonzaga

**CIVIL ENGINEER**  
Stantec Consulting Services  
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CONTACT PERSON: Charles J. Olivo, PE

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CONTACT PERSON: Brian D. McGlade, PE

**MEP & FP**  
Snyder Hoffman Associates, Inc  
phone: 610.694.8020  
CONTACT PERSON: Jeff Machik, PE



- |  |  |
|--|--|
|  | DISCONNECT & REMOVE EXISTING SINK AND TRIM IN THEIR ENTIRETY INCLUDING ALL EXISTING SUPPLY PIPING IN DEMOLISHED CASEWORK, DRESSING ROOM WALLS AND ABOVE CEILING. VERIFY EXISTING CONDITIONS IN FIELD.  |
|  | DISCONNECT & REMOVE EXISTING FLOOR MOUNTED WATER CLOSET AND FLUSH VALVE IN THEIR ENTIRETY INCLUDING EXISTING SINKS IN THEIR ENTIRETY. CAP EXISTING SUPPLY PIPING IN EXISTING WALL TO REMAIN. REMOVE EXISTING SUPPLY PIPING ABOVE CEILING IN ITS ENTIRETY. VERIFY EXISTING CONDITIONS IN FIELD. |
|  | DISCONNECT & REMOVE EXISTING SERVICE SINK AND TRIM IN THEIR ENTIRETY INCLUDING ALL EXISTING EXPOSED SUPPLY PIPING AND SUPPORTS ABOVE CEILING IN ITS ENTIRETY. VERIFY EXISTING CONDITIONS IN FIELD.   |
|  | DISCONNECT & REMOVE EXISTING SINK AND TRIM IN THEIR ENTIRETY INCLUDING ALL EXISTING SUPPLY PIPING IN DEMOLISHED CASEWORK, DRESSING ROOM CHAIRS AND ABOVE CEILING. VERIFY EXISTING CONDITIONS IN FIELD AND REFER TO DEMOLITION NOTE #6.   |
|  | DISCONNECT & REMOVE EXISTING SUPPLY PIPING IN DEMOLISHED CASEWORK IN THEIR ENTIRETY. VERIFY EXISTING CONDITIONS IN FIELD.  |
|  | DISCONNECT & REMOVE EXISTING SINK AND TRIM IN THEIR ENTIRETY INCLUDING EXISTING SUPPLY PIPING IN DEMOLISHED CASEWORK, CAP AND ABANDON EXISTING SUPPLY PIPING IN EXISTING WALL TO REMAIN. REMOVE EXISTING SUPPLY PIPING ABOVE CEILING IN ITS ENTIRETY. VERIFY EXISTING CONDITIONS IN FIELD.     |
|  | DISCONNECT & REMOVE EXISTING COUNTERTOP LAVATORIES AND SINKS IN THEIR ENTIRETY INCLUDING EXISTING SUPPLY PIPING IN DEMOLISHED CHASE AND ABOVE CEILING. VERIFY EXISTING CONDITIONS IN FIELD.  |
|  | DISCONNECT & REMOVE EXISTING FLOOR MOUNTED WATER CLOSET AND FLUSH VALVE IN THEIR ENTIRETY INCLUDING EXISTING SUPPLY PIPING IN DEMOLISHED CHASE AND ABOVE CEILING. VERIFY EXISTING CONDITIONS IN FIELD.   |
|  | DISCONNECT & REMOVE EXISTING WALL HUNG URINAL, SUPPORT AND FLUSH VALVE IN THEIR ENTIRETY INCLUDING EXISTING SUPPLY PIPING IN DEMOLISHED CHASE AND ABOVE CEILING. VERIFY EXISTING CONDITIONS IN FIELD.  |
|  | DISCONNECT & REMOVE EXISTING WALL HUNG URINAL, SUPPORT AND FLUSH VALVE IN THEIR ENTIRETY. CAP AND ABANDON EXISTING SUPPLY PIPING IN EXISTING WALL TO REMAIN. REMOVE EXISTING SUPPLY PIPING ABOVE CEILING IN ITS ENTIRETY. VERIFY EXISTING CONDITIONS IN FIELD.                                 |
|  | DISCONNECT & REMOVE EXISTING SUPPLY PIPING ABOVE CEILING SERVING DEMOLISHED LAVATORIES AND WATER CLOSETS. VERIFY EXISTING CONDITIONS IN FIELD.   |
|  | DISCONNECT & REMOVE EXISTING FLOOR MOUNTED WATER CLOSET AND FLUSH VALVE IN THEIR ENTIRETY. CAP AND ABANDON EXISTING SUPPLY PIPING IN EXISTING WALL TO REMAIN. REMOVE EXISTING SUPPLY PIPING ABOVE CEILING IN ITS ENTIRETY. VERIFY EXISTING CONDITIONS IN FIELD.                                |
|  | DISCONNECT & REMOVE EXISTING SUPPLY PIPING ABOVE CEILING SERVING DEMOLISHED LAVATORIES AND WATER CLOSETS. VERIFY EXISTING CONDITIONS IN FIELD.   |
|  | DISCONNECT & REMOVE EXISTING FLOOR MOUNTED SINK AND TRIM IN THEIR ENTIRETY. CAP AND ABANDON EXISTING SUPPLY PIPING IN EXISTING WALL TO REMAIN. REMOVE EXISTING SUPPLY PIPING ABOVE CEILING IN ITS ENTIRETY. VERIFY EXISTING CONDITIONS IN FIELD.   |
|  | DISCONNECT & REMOVE EXISTING FLOOR MOUNTED SINK AND TRIM IN THEIR ENTIRETY. CAP AND ABANDON EXISTING SUPPLY PIPING IN EXISTING WALL TO REMAIN. REMOVE EXISTING SUPPLY PIPING ABOVE CEILING IN ITS ENTIRETY. VERIFY EXISTING CONDITIONS IN FIELD.   |
|  | DISCONNECT & REMOVE EXISTING SUPPLY PIPING ABOVE CEILING SERVING DEMOLISHED LAVATORIES AND WATER CLOSETS. VERIFY EXISTING CONDITIONS IN FIELD.   |
|  | DISCONNECT & REMOVE EXISTING FLOOR MOUNTED SINK AND TRIM IN THEIR ENTIRETY. CAP AND ABANDON EXISTING SUPPLY PIPING IN EXISTING WALL TO REMAIN. REMOVE EXISTING SUPPLY PIPING ABOVE CEILING IN ITS ENTIRETY. VERIFY EXISTING CONDITIONS IN FIELD.   |
|  | DISCONNECT & REMOVE EXISTING SUPPLY PIPING ABOVE CEILING SERVING DEMOLISHED LAVATORIES AND WATER CLOSETS. VERIFY EXISTING CONDITIONS IN FIELD.   |

Seal

## DUTY TO INSPECT CONTRACT DOCUMENTS PRIOR

**TO STARTING WORK:**

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BHA Job Number: 22-114

Scale: As indicated

Drawn By: BLM

Checked By: KJF

Approved By: JRM

Sheet No.

# PD2.01C

DEMOLITION PLAN - AREA 'C' - SUPPLY PIPING

$$1/8'' = 1'-0''$$

**NOT FOR CONSTRUCTION**

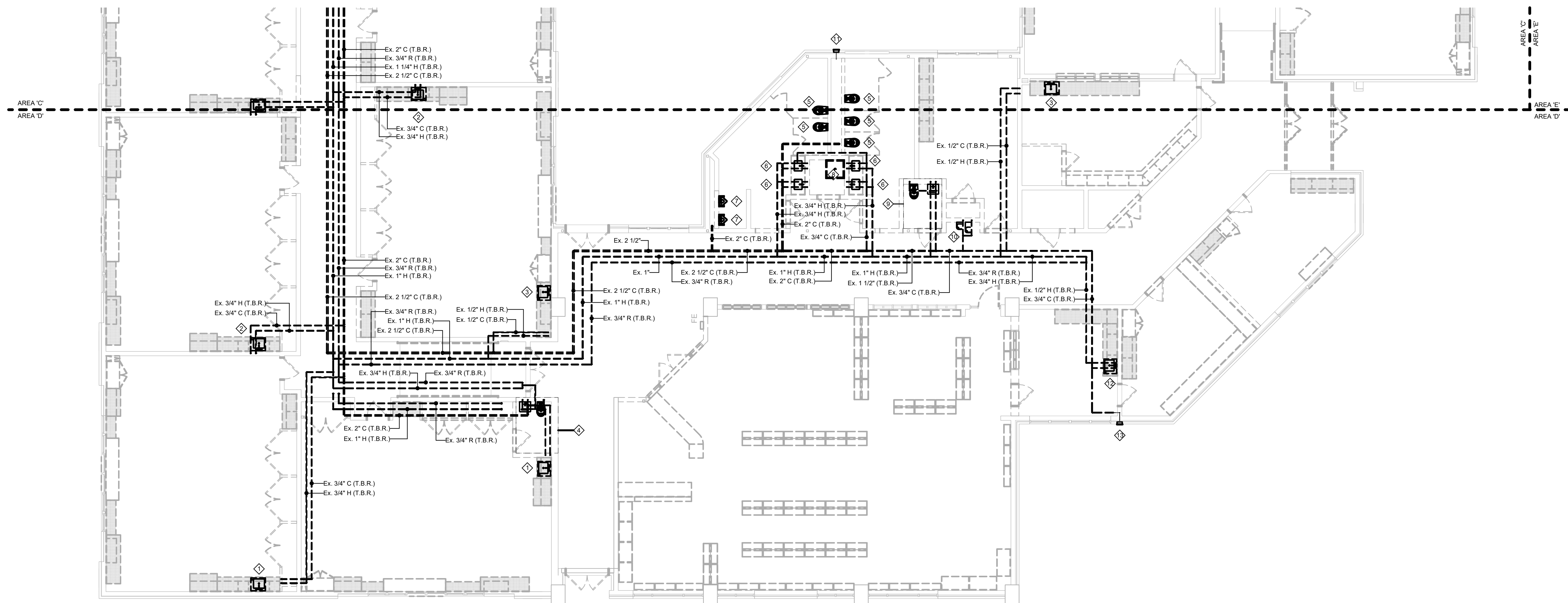




**OWNER**  
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**CONTACT PERSON:** Damon Gonzaga

**STRUCTURAL ENGINEER**  
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phone: 856.310.1491  
CONTACT PERSON: Brian D. McGlade, PE

**MEP & FP**  
Snyder Hoffman Associates, Inc.  
phone: 610.694.8020  
**CONTACT PERSON:** Jeff Mach



① **DEMOLITION PLAN - AREA 'D' - SUPPLY PIPING**  
1/8" = 1'-0"

DISCONNECT & REMOVE EXISTING SINK AND TRIM IN THEIR ENTIRETY INCLUDING ALL EXISTING SUPPLY PIPING IN DEMOLISHED CASEWORK/ FURNISHED WALL AND ABOVE CEILING. VERIFY EXACT CONDITIONS IN FIELD.

DISCONNECT & REMOVE EXISTING SINK AND TRIM IN THEIR ENTIRETY INCLUDING ALL EXISTING SUPPLY PIPING IN DEMOLISHED CASEWORK/ FURNISHED WALL AND ABOVE CEILING. VERIFY EXACT CONDITIONS IN FIELD.

DISCONNECT & REMOVE EXISTING SINK AND TRIM IN THEIR ENTIRETY INCLUDING ALL EXISTING SUPPLY PIPING IN EXISTING WALL TO REMAIN AND REMOVE EXISTING SUPPLY PIPING ABOVE CEILING IN ITS ENTIRETY. VERIFY EXACT CONDITIONS IN FIELD.

DISCONNECT & REMOVE EXISTING SINK AND TRIM IN THEIR ENTIRETY INCLUDING ALL EXISTING SUPPLY PIPING IN DEMOLISHED CASEWORK/ DEMOLISHED CHASE AND ABOVE CEILING. VERIFY EXACT CONDITIONS IN FIELD.

DISCONNECT & REMOVE EXISTING FLOOR MOUNTED WATER CLOSET AND FLUSH VALVE AND EXISTING WALL HUNG LAVATORY AND TRIM IN THEIR ENTIRETY INCLUDING EXISTING SUPPLY PIPING IN DEMOLISHED CASEWORK/ DEMOLISHED CHASE AND ABOVE CEILING. VERIFY EXACT CONDITIONS IN FIELD.

DISCONNECT & REMOVE EXISTING WALL HUNG WATER CLOSET, SUPPORT AND FLUSH VALVE IN THEIR ENTIRETY INCLUDING EXISTING SUPPLY PIPING IN DEMOLISHED CASEWORK/ DEMOLISHED CHASE AND ABOVE CEILING. VERIFY EXACT CONDITIONS IN FIELD.

DISCONNECT & REMOVE EXISTING COUNTERTOP LAVATORIES AND TRIM AND EXISTING HOSE BIBB IN THEIR ENTIRETY INCLUDING ALL EXISTING SUPPLY PIPING IN DEMOLISHED CASEWORK/ DEMOLISHED CHASE AND ABOVE CEILING. VERIFY EXACT CONDITIONS IN FIELD.

DISCONNECT & REMOVE EXISTING WALL HUNG URINAL, SUPPORT AND FLUSH VALVE IN THEIR ENTIRETY INCLUDING EXISTING SUPPLY PIPING IN DEMOLISHED CASEWORK/ DEMOLISHED CHASE AND ABOVE CEILING. VERIFY EXACT CONDITIONS IN FIELD.

DISCONNECT & REMOVE EXISTING MOP RECEPTOR AND TRIM IN THEIR ENTIRETY INCLUDING ALL EXISTING SUPPLY PIPING IN DEMOLISHED CASEWORK/ DEMOLISHED CHASE AND ABOVE CEILING. VERIFY EXACT CONDITIONS IN FIELD.

DISCONNECT & REMOVE EXISTING FLOOR MOUNTED, TANK TYPE WATER CLOSET AND EXISTING WALL HUNG LAVATORY AND TRIM IN THEIR ENTIRETY INCLUDING ALL EXISTING SUPPLY PIPING IN DEMOLISHED CASEWORK/ DEMOLISHED CHASE AND ABOVE CEILING. VERIFY EXACT CONDITIONS IN FIELD.

DISCONNECT & REMOVE EXISTING ELECTRIC WATER COOLER AND TRIM IN THEIR ENTIRETY INCLUDING EXISTING SUPPLY PIPING IN DEMOLISHED WALL AND ABOVE CEILING. VERIFY EXACT CONDITIONS IN FIELD.

EXISTING WALL HYDRANT TO REMAIN. DISCONNECT & REMOVE EXISTING SUPPLY PIPING IN DEMOLISHED CASEWORK/ DEMOLISHED CHASE AND PREPARE FOR NEW CONNECTION AT EXISTING HYDRANT. VERIFY EXACT CONDITIONS IN FIELD AND REFER TO NEW WORK PLAN.

DISCONNECT & REMOVE EXISTING WALL HYDRANT AND PREPARE EXISTING SUPPLY PIPING IN EXISTING WALL FOR NEW WALL HYDRANT. REMOVE EXISTING SUPPLY PIPING ABOVE CEILING IN ITS ENTIRETY. REFER TO NEW WORK PLAN.

Project:  
Mary C. Howse  
Elementary

Project Address:  
641 Boot Road  
West Chester, PA 19380

DEMOLITION PLAN  
AREA 'D' - SUPPLY  
PIPING

Seal

**TO STARTING WORK:**  
Any party who relies in part or whole on the content of

these Construction Documents shall, before beginning any work, be responsible for fully inspecting the complete set of Contract Documents, including all Drawings, Specifications, and Addenda, for completeness, conflicts, scope of work, and suitability for constructing the building. All parties relying on these documents represent that they have expertise in the area of their responsibility and are knowledgeable regarding industry standards, product requirements and code requirements and shall be responsible to read, evaluate and interpret the contract documents. All parties relying on these documents must, prior to beginning work, submit all requests for clarifications and additional information to the Architect in writing. **All parties who begin work hereby certify that the documents are suitable for their intended purposes unless noted in specific written exception beforehand.**

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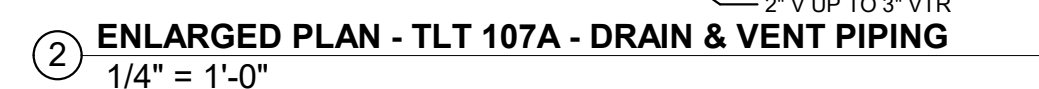
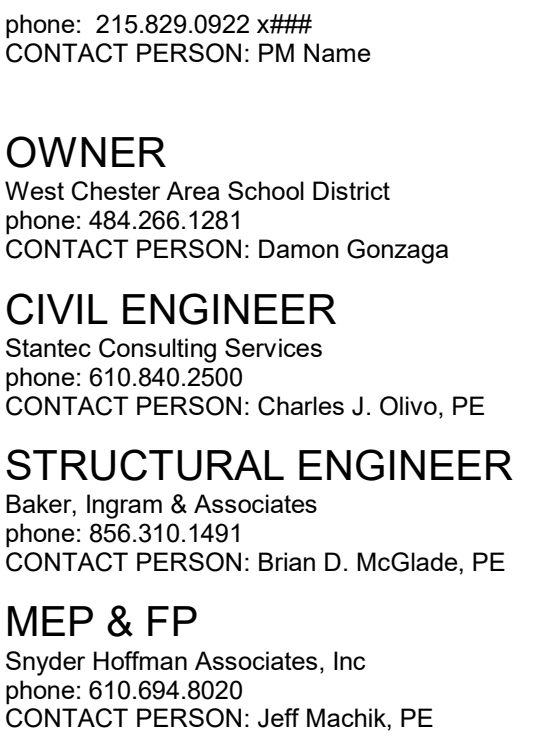
[illegible]

2

# PD2.01D

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- 1 NEW FLOOR CLEANOUT REPLACES EXISTING. INSTALL NEW FLOOR CLEANOUT FLUSH WITH FINISHED FLOOR AND PROVIDE NEW PIPING FROM CLEANOUT INCLUDING FITTING AT CONNECTION TO EXISTING SANITARY MAIN BELOW FLOOR. VERIFY EXACT SIZE OF NEW CONNECTION POINT IN FIELD.
- 2 CONNECT NEW 6" STORM TO EXISTING 6" STORM PIPING BELOW FLOOR. VERIFY EXACT LOCATION OF NEW CONNECTION POINT IN FIELD.
- 3 CONNECT NEW 2" SANITARY TO EXISTING 4" SANITARY PIPING BELOW FLOOR. VERIFY EXACT SIZE AND LOCATION OF NEW CONNECTION POINT IN FIELD.
- 4 CONNECT NEW 2" SANITARY TO EXISTING 5" SANITARY PIPING BELOW FLOOR. VERIFY EXACT SIZE AND LOCATION OF NEW CONNECTION POINT IN FIELD.
- 5 CONNECT NEW 4" SANITARY TO EXISTING 5" SANITARY PIPING BELOW FLOOR. VERIFY EXACT SIZE AND LOCATION OF NEW CONNECTION POINT IN FIELD.
- 6 CONNECT NEW 3" SANITARY TO EXISTING 6" SANITARY PIPING BELOW FLOOR. VERIFY EXACT SIZE AND LOCATION OF NEW CONNECTION POINT IN FIELD.
- 7 CONNECT NEW 4" SANITARY TO EXISTING 6" SANITARY PIPING BELOW FLOOR. VERIFY EXACT SIZE AND LOCATION OF NEW CONNECTION POINT IN FIELD.
- 8 CONNECT NEW 3" SANITARY TO EXISTING 5" SANITARY PIPING BELOW FLOOR. VERIFY EXACT SIZE AND LOCATION OF NEW CONNECTION POINT IN FIELD.
- 9 NEW EXTERIOR CLEANOUT TO GRADE REPLACES EXISTING. INSTALL NEW EXTERIOR CLEANOUT FLUSH WITH NEW FINISHED GRADE AND PROVIDE NEW PIPING FROM CLEANOUT INCLUDING FITTING AT CONNECTION TO EXISTING SANITARY MAIN BELOW FLOOR. VERIFY EXACT SIZE OF NEW CONNECTION POINT IN FIELD.
- 10 CONNECT NEW 3" RWC TO EXISTING 3" RWC AT EXISTING GRADE AND PROVIDE NEW 6" EXISTING 4" STORM PIPING TO REMAIN BELOW FLOOR. VERIFY EXACT LOCATION OF NEW CONNECTION POINT IN FIELD.

**TO STARTING WORK** Any part or whole on the content of these Construction Documents shall, before beginning any work, be responsible for fully inspecting the complete set of Contract Documents, including all Drawings, Specifications, and Addenda, for completeness, conflicts, scope of work, and suitability for constructing the building. All parties relying on these documents represent and warrant that they have carefully examined them and are knowledgeable regarding industry standards, product requirements and code requirements and therefore are qualified to fully evaluate and interpret the contract documents. All parties relying on these documents must, prior to beginning work, submit all requests for clarification or change of information to the Architect in writing. All parties who begin work hereby certify that the documents are suitable for their intended purposes unless noted in specific written exception beforehand.

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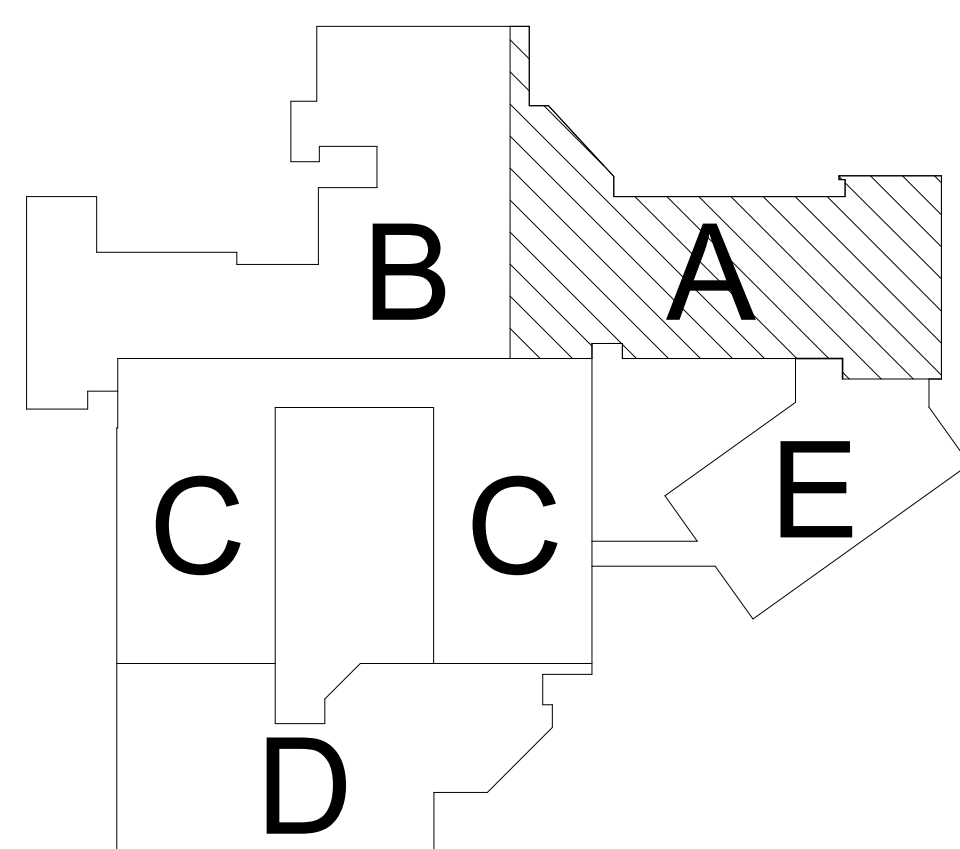
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[illegible]

BHA Job Number:	22-114
Scale:	As indicated
Drawn By:	BLM
Checked By:	KJF
Approved By:	JRM
Sheet No.	

# P2.01A

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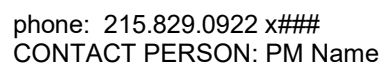


**NOT FOR CONSTRUCTION**



1 FLOOR PLAN - AREA 'A' - DRAIN & VENT PIPING  
1/8" = 1'-0"





**OWNER**  
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Snyder Hoffman Associates, Inc  
phone: 610.694.8020  
CONTACT PERSON: Jeff Machik, PE

Project:  
Mary C. Howse  
Elementary

Project Address:  
641 Boot Road  
West Chester, PA 19380

Sheet Title:

FLOOR PLAN - AREA  
'B' - DRAIN & VENT  
PIPING

Se3

DUTY TO INSPECT CONTRACT DOCUMENTS PRIOR

**TO STARTING WORK:**  
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[illegible]

BHA Job Number: 22-114

Scale: As indicated

Drawn By: BLM

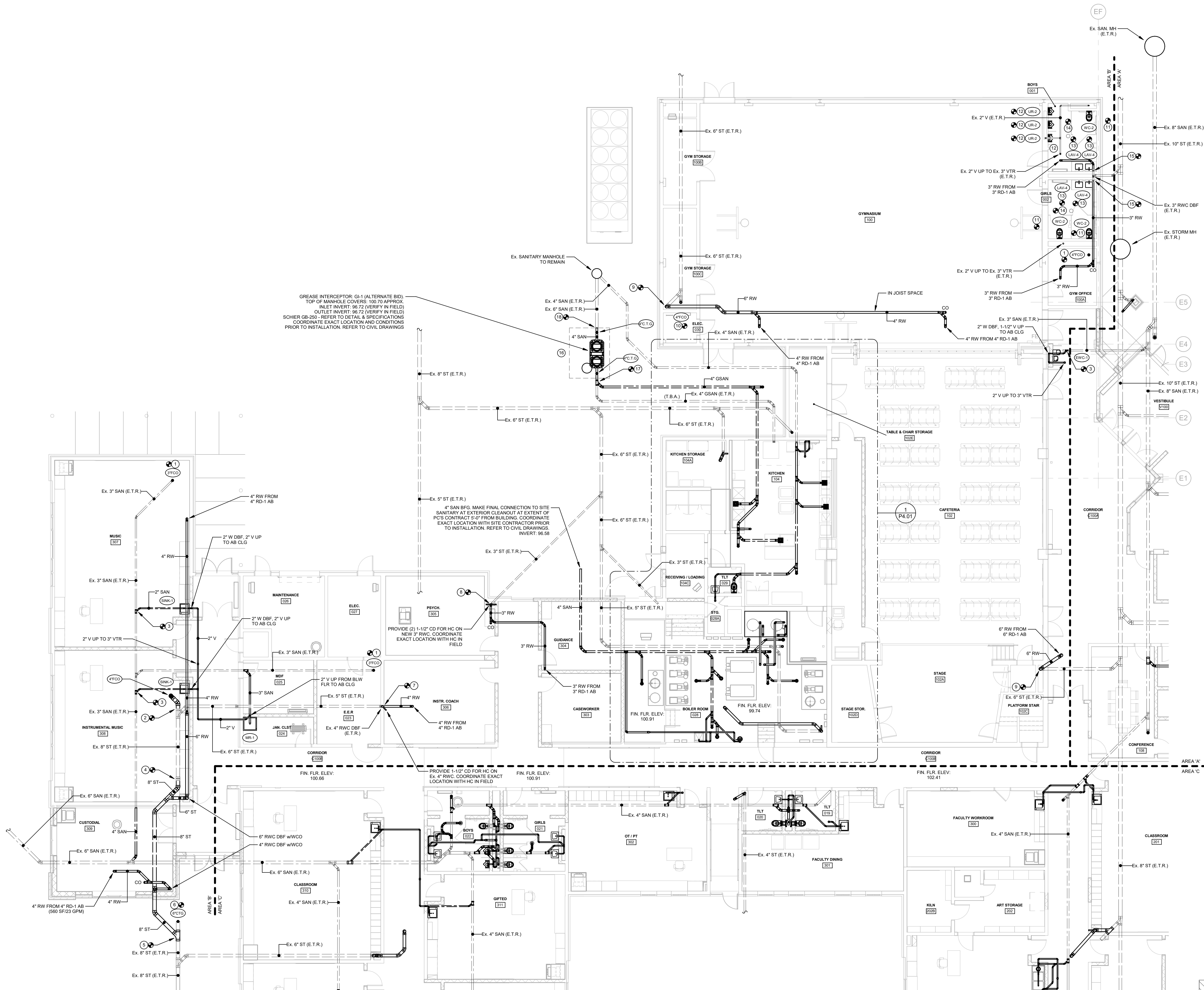
Checked By: KJF

Approved By: JRM

Sheet No.

# P2.01B

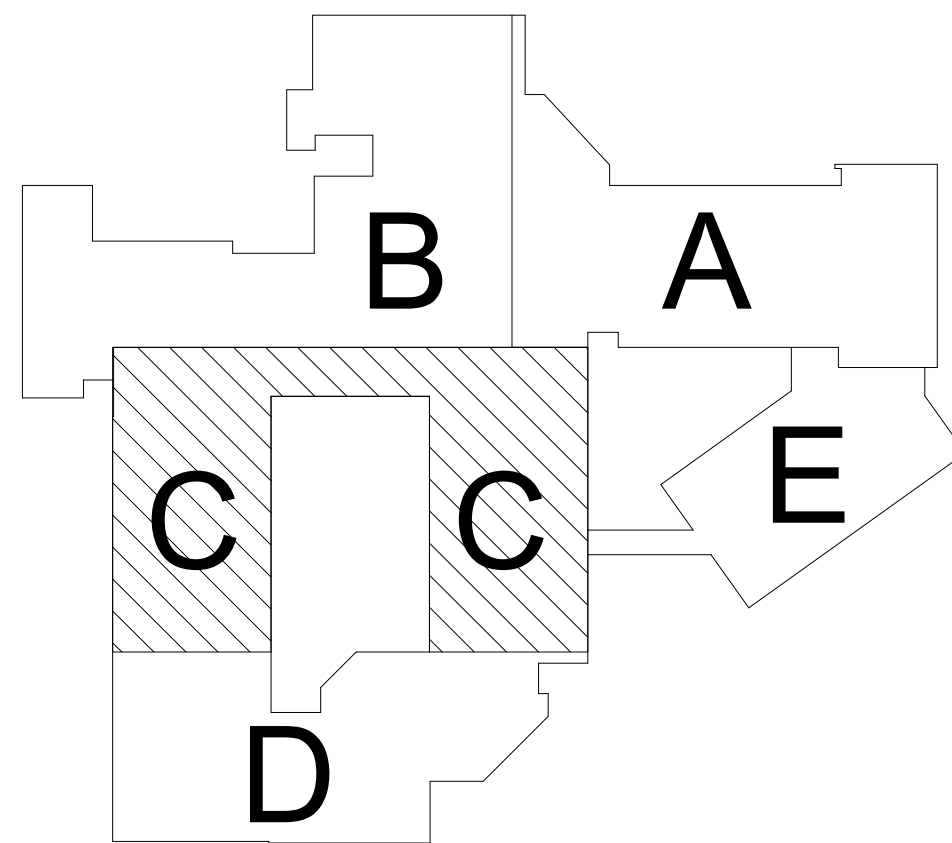
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1 FLOOR PLAN - AREA 'B' - DRAIN & VENT PIPING  
1/8" = 1'-0"

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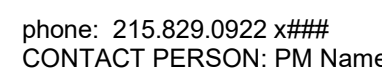
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# P2.01C





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Project:  
Mary C. Howse  
Elementary

Project Address:  
641 Boot Road  
West Chester, PA 19380

Sheet Title:  
FLOOR PLAN - AREA  
'D' - DRAIN & VENT  
PIPING

See

**DUE TO IN-SIST CONTRACT DOCUMENTS PRIOR TO STARTING WORK:**  
Any party who relies in part or whole on the content of these Construction Documents shall, before beginning any work, be responsible for fully inspecting the complete set of Construction Documents, including the Specifications, and Addenda, for completeness, conflicts of scope of work, and suitability for constructing the building. All parties relying on these documents represent and warrant that they have read and understood them and are knowledgeable regarding industry standards, product requirements and code requirements and therefore are qualified to fully evaluate and interpret the Construction Documents. All parties relying on these documents must, prior to beginning work, submit all requests for clarifications and additional information to the Architect in writing. All parties who begin work hereby certify that they have read and understood the documents and that they understand the consequences of failing to read and understand the documents, as noted in specific exceptions below.

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[illegible]

BHA Job Number: 22-114

Scale: As indicated

Drawn By: BLM

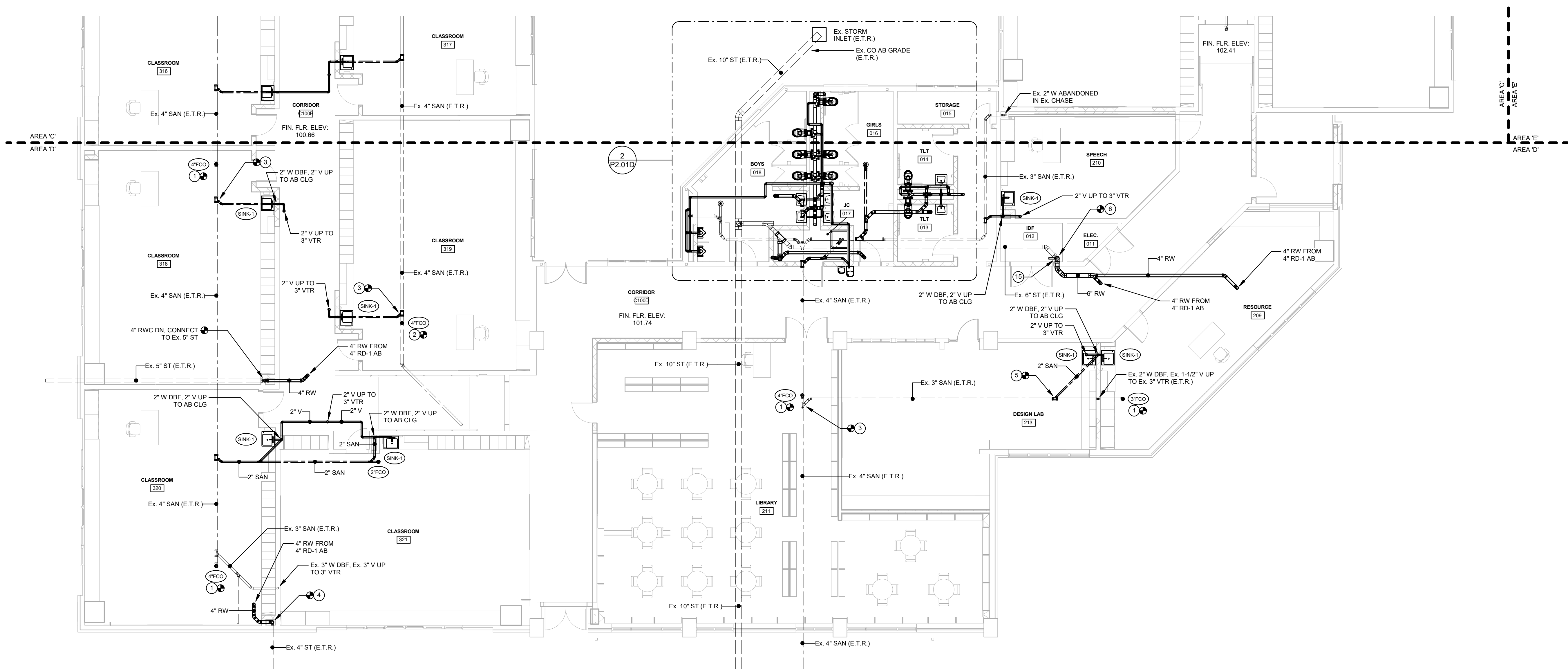
Checked By: KJF

Approved By: JRM

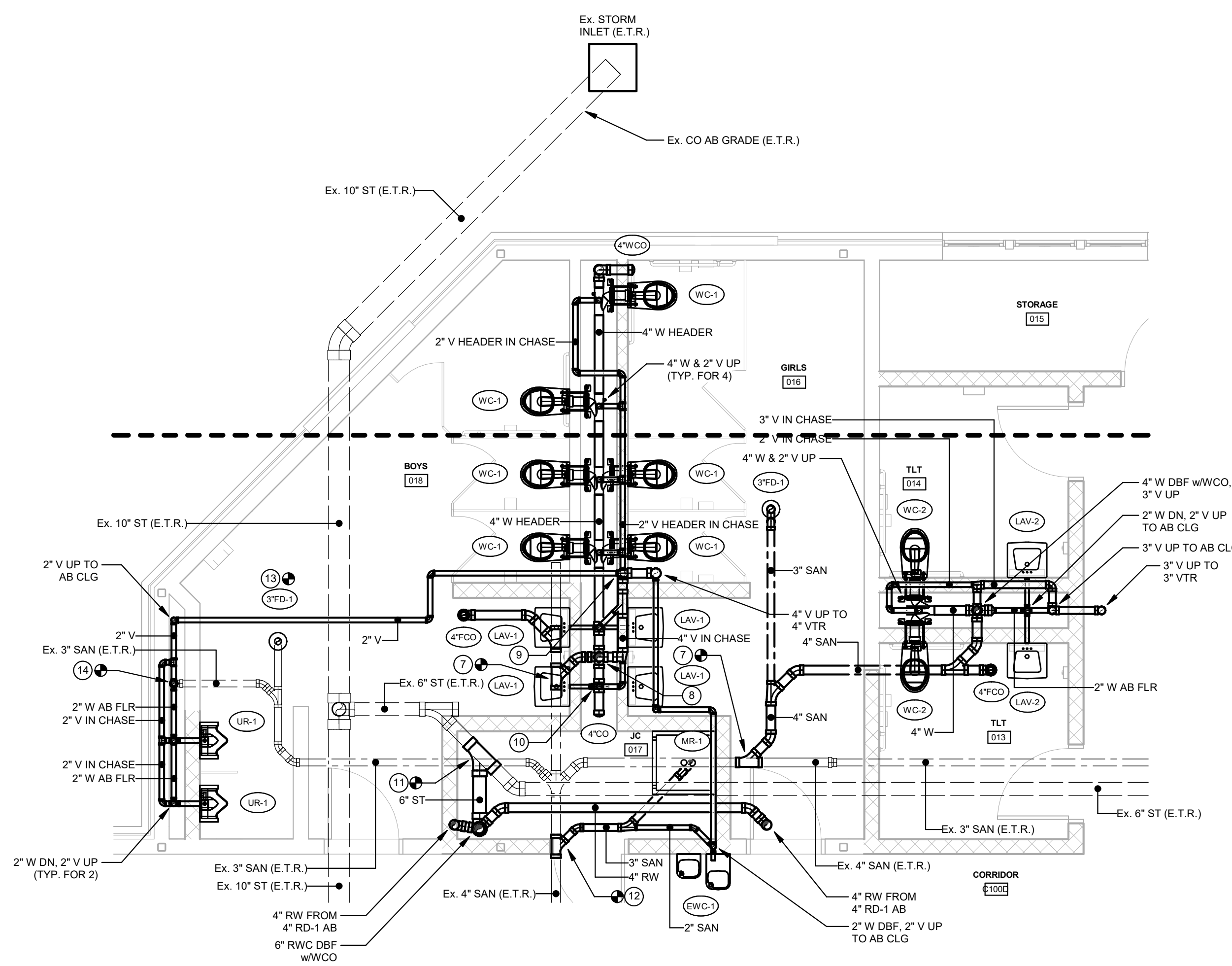
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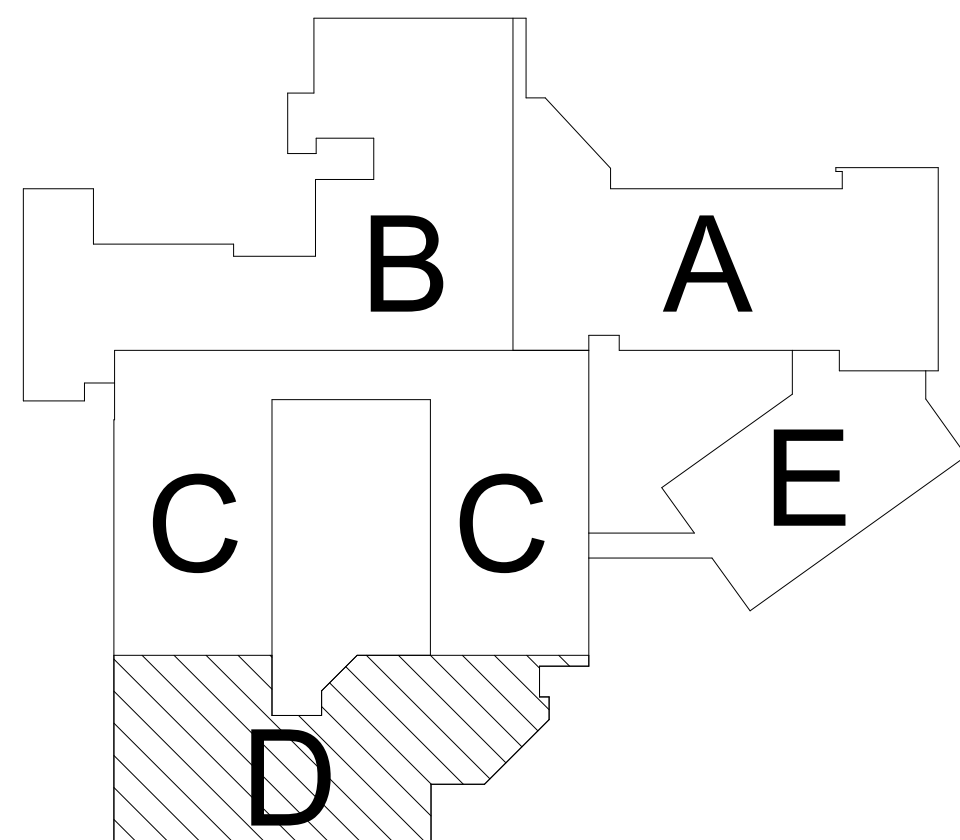
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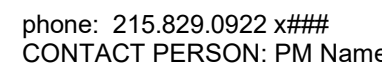
1 FLOOR PLAN - AREA 'D' - DRAINAGE & VENT PIPING  
1/8" = 1'-0"



② **ENLARGED PLAN - GIRLS 016 & BOYS 018 & TLTS-013, 014 - DRAINAGE & VENT PIPING**  
1/4" = 1'-0"



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Project:  
Mary C. Howse  
Elementary

Project Address:  
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West Chester, PA 19380

Sheet Title:  
FLOOR PLAN - AREA  
'E' - DRAIN & VENT  
PIPING

See

**TO STARTING WORK:**  
Any party who relies in part or whole on the content of these Construction Documents shall, before beginning any work, be responsible for fully inspecting the complete set of documents, including but not limited to Drawings, Specifications, and Addenda, for completeness, conflicts, scope of work, and suitability for constructing the building. All parties relying on these documents represent that they have expertise in the area of their responsibility and are responsible regarding industry standards, product requirements and code requirements, and that they and their subcontractors are qualified to fully evaluate and interpret the contract documents. All parties relying on these documents must, prior to beginning work, submit all requests for clarifications and additional information to the Architect. By signing and submitting this Addendum, the parties hereby certify that the documents are suitable for their intended purposes unless noted in specific written exception beforehand.

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[illegible]

BHA Job Number: 22-114

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Drawn By: BLM

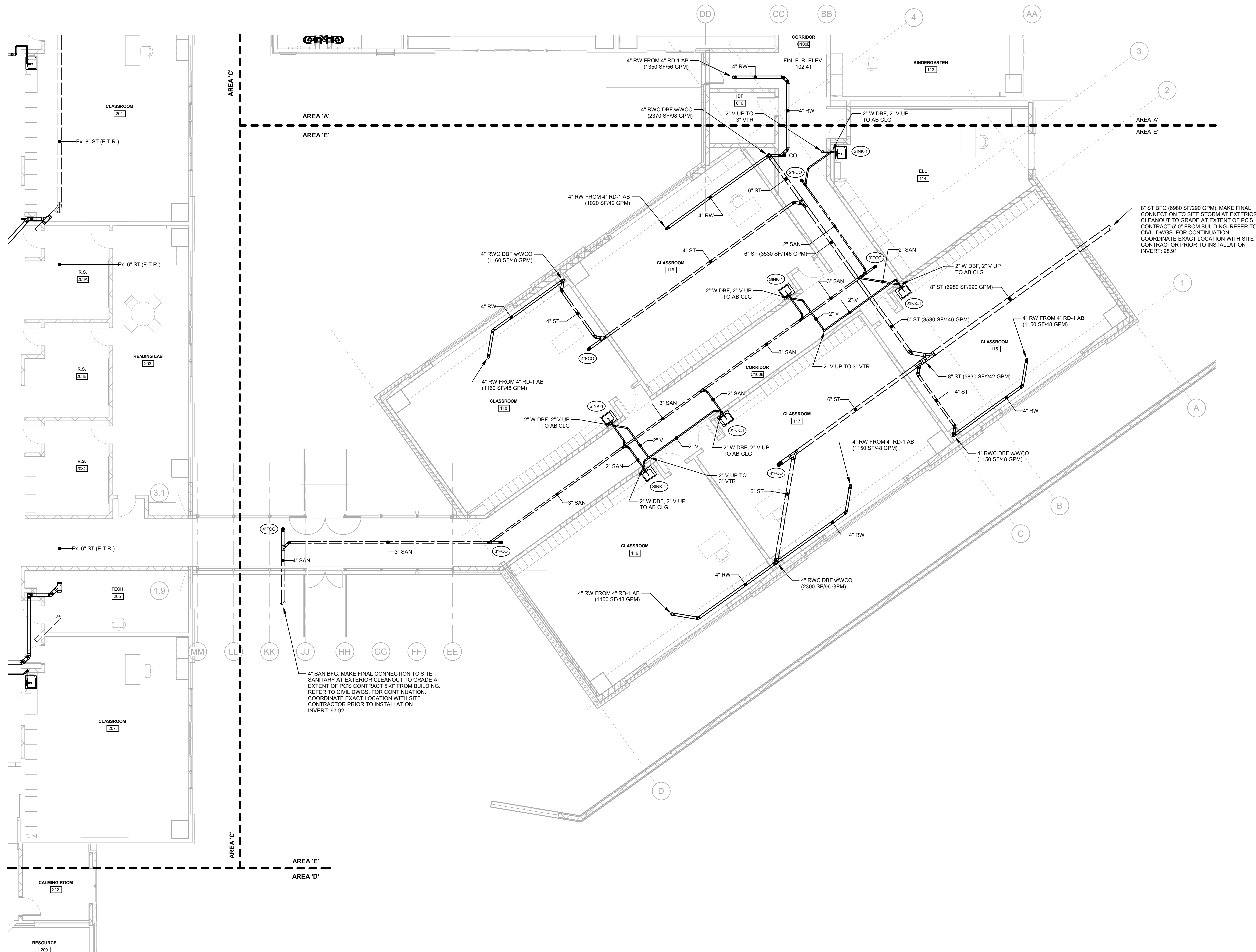
Checked By: KJF

Approved By: JRM

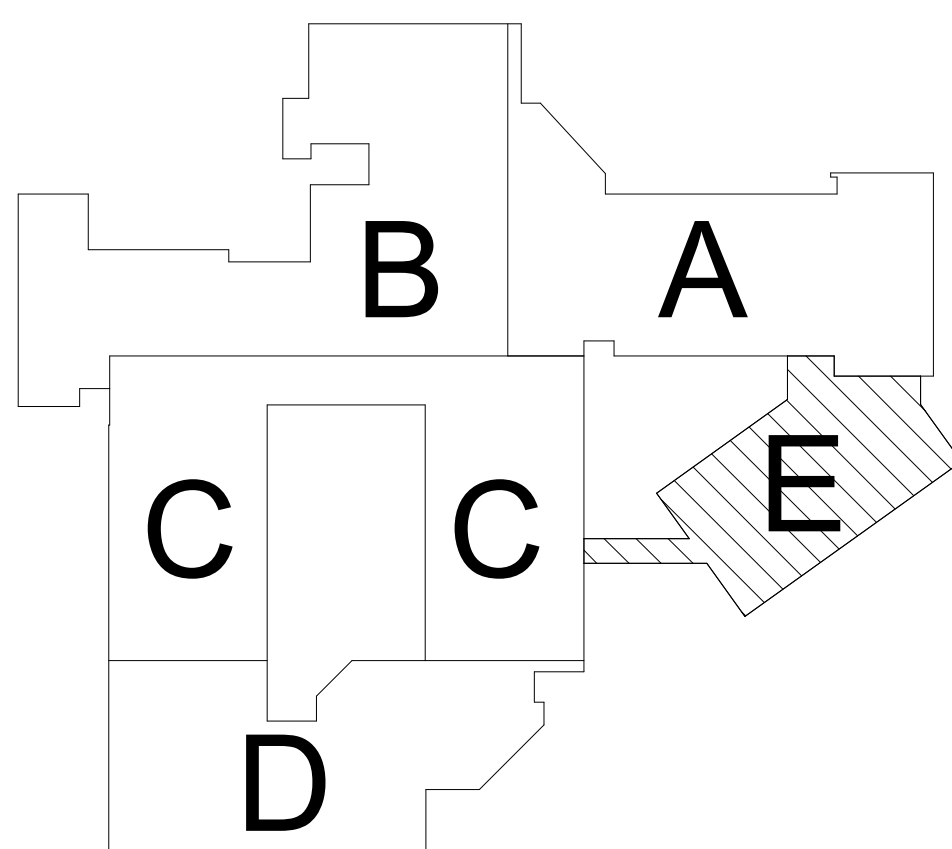
Sheet No

# P2.01E

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1 FLOOR PLAN - AREA 'E' - DRAINAGE & VENT PIPING  
1/8" = 1'-0"



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Mary C. Howse  
Elementary

West Chester, PA 19380

## OVERALL ROOF PLAN - PLUMBING

**TO STARTING WORK:**  
Any party who relies in part or whole on the content of

These Construction Documents shall, before beginning any work, be responsible for fully inspecting the complete set of Contract Documents, including all Drawings, Specifications, and Addenda, for completeness, conflicts in scope of work, and suitability for constructing the building. All parties relying on these documents represent that they have expertise in the area of their responsibility and are knowledgeable regarding industry standards, codes, and regulations. All parties who sign these documents are qualified to fully evaluate and interpret the contract documents. All parties relying on these documents must, prior to beginning work, submit all requests for clarifications and additional information to the Architect in writing. **All parties who begin work hereby certify that the documents are suitable for their intended purposes unless noted in specific written exception beforehand.**

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[illegible]

Scale:  $1/16" = 1'-0"$

Scale:  $1/16" = 1'-0"$

Drawn By: BLM

Checked By: KJF

Approved By: JRM

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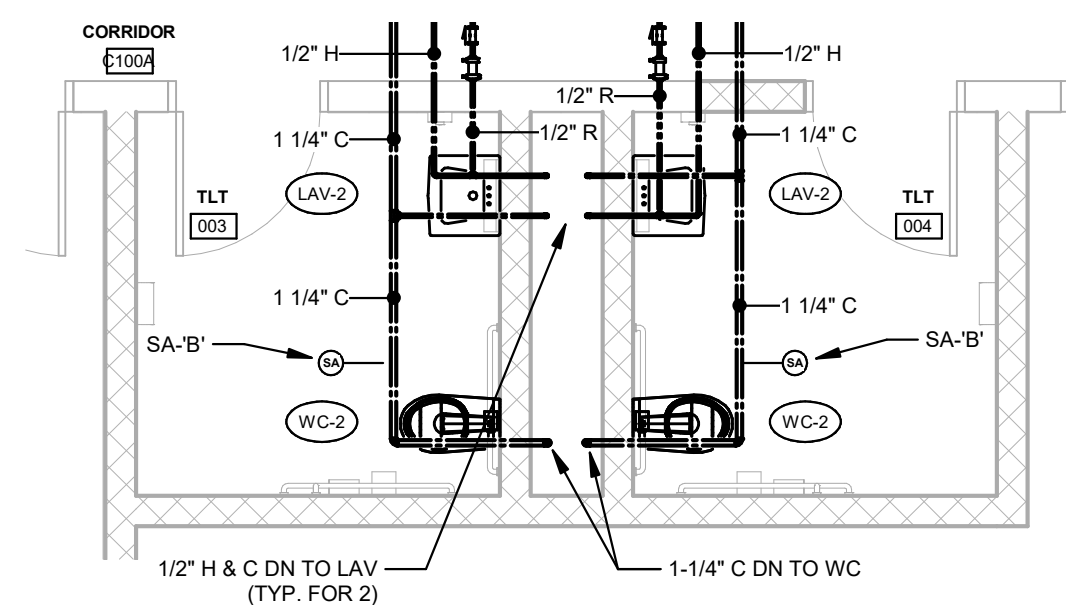
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**CONTACT PERSON:** Damon Gonzaga

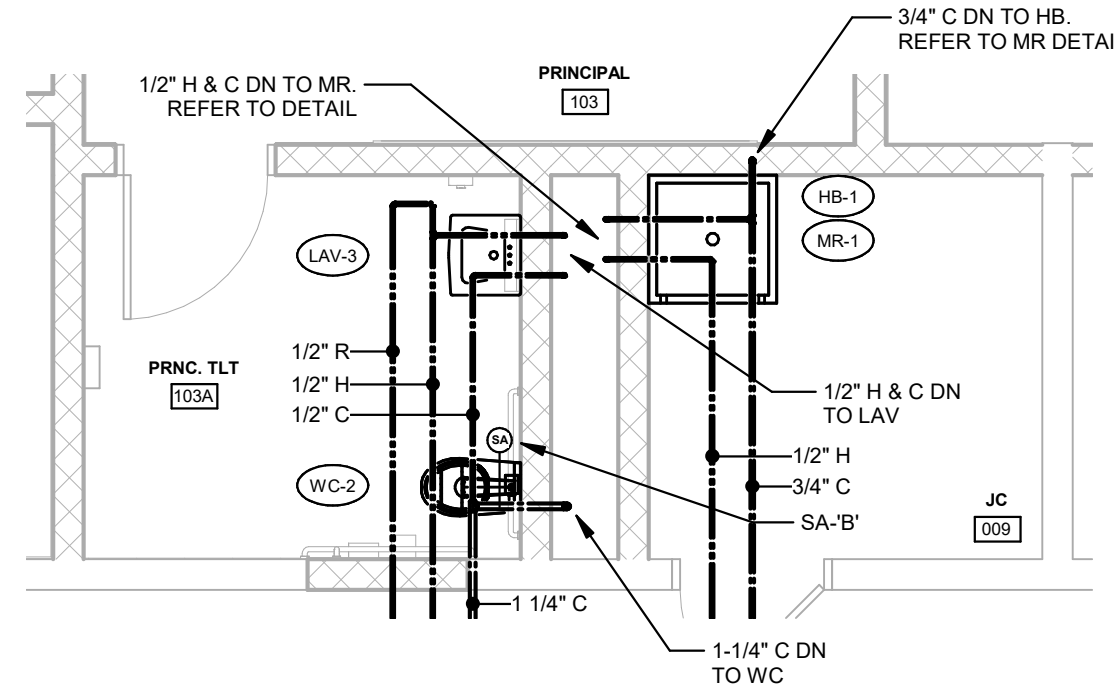
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③ **ENLARGED PLAN - TLT 003 & TLT 004 - SUPPLY PIPING**  
1/4" = 1'-0"



2 ENLARGED PLAN - PRNC.TLT 103A & JC 009 - SUPPLY PIPING  
1/4" = 1'-0"

## PLUMBING DRAWING NOTES

- ① MANUAL BALANCING VALVE, CHECK VALVE AND SHUT-OFF VALVE ABOVE CEILING.
- ② NEW ELECTRIC WATER COOLER. CONNECT TO EXISTING WASTE AND SUPPLY PIPING IN EXISTING WALL TO REMAIN AND PROVIDE NEW SUPPLY PIPING ABOVE CEILING.
- ③ NEW WALL HYDRANT REPLACES EXISTING IN SAME LOCATION. CONNECT TO EXISTING SUPPLY PIPING FROM DEMOLISHED WALL HYDRANT. CONNECT NEW 3/4" C TO EXISTING 3/4" C PIPING ABOVE CEILING AT EXISTING WALL.

### DUTY TO INSPECT CONTRACT DOCUMENTS PRIOR

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[illegible]

BHA Job Number: 22-114

Scale: As indicated

Drawn By: BLM

Checked By: KJF

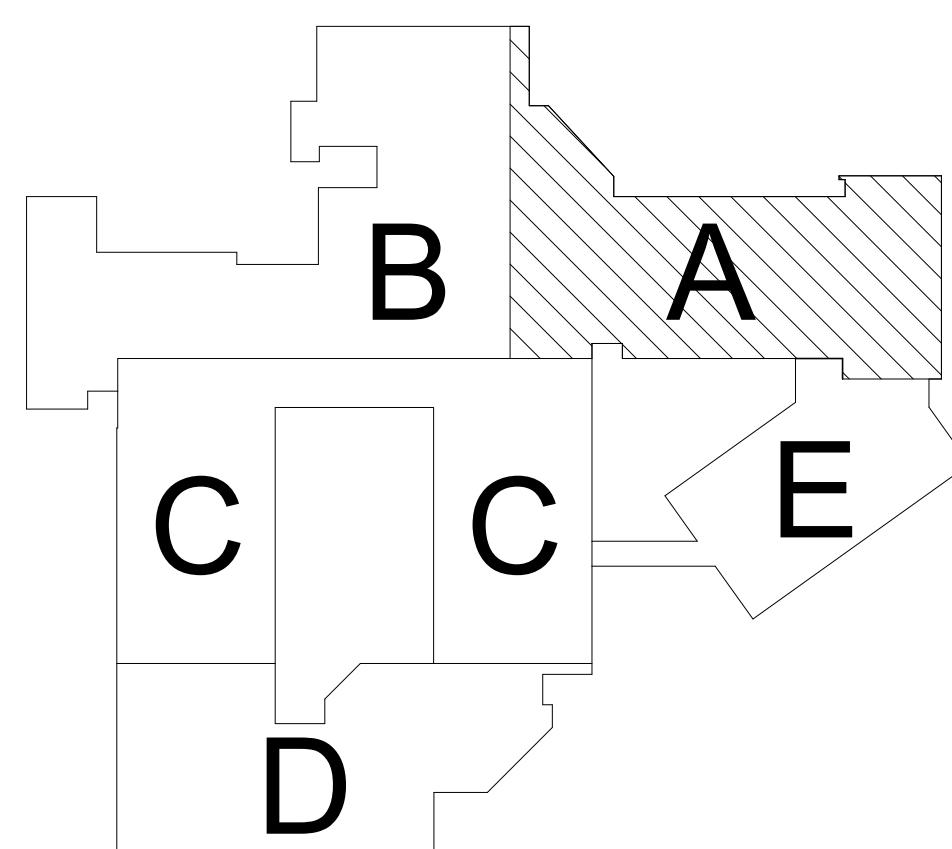
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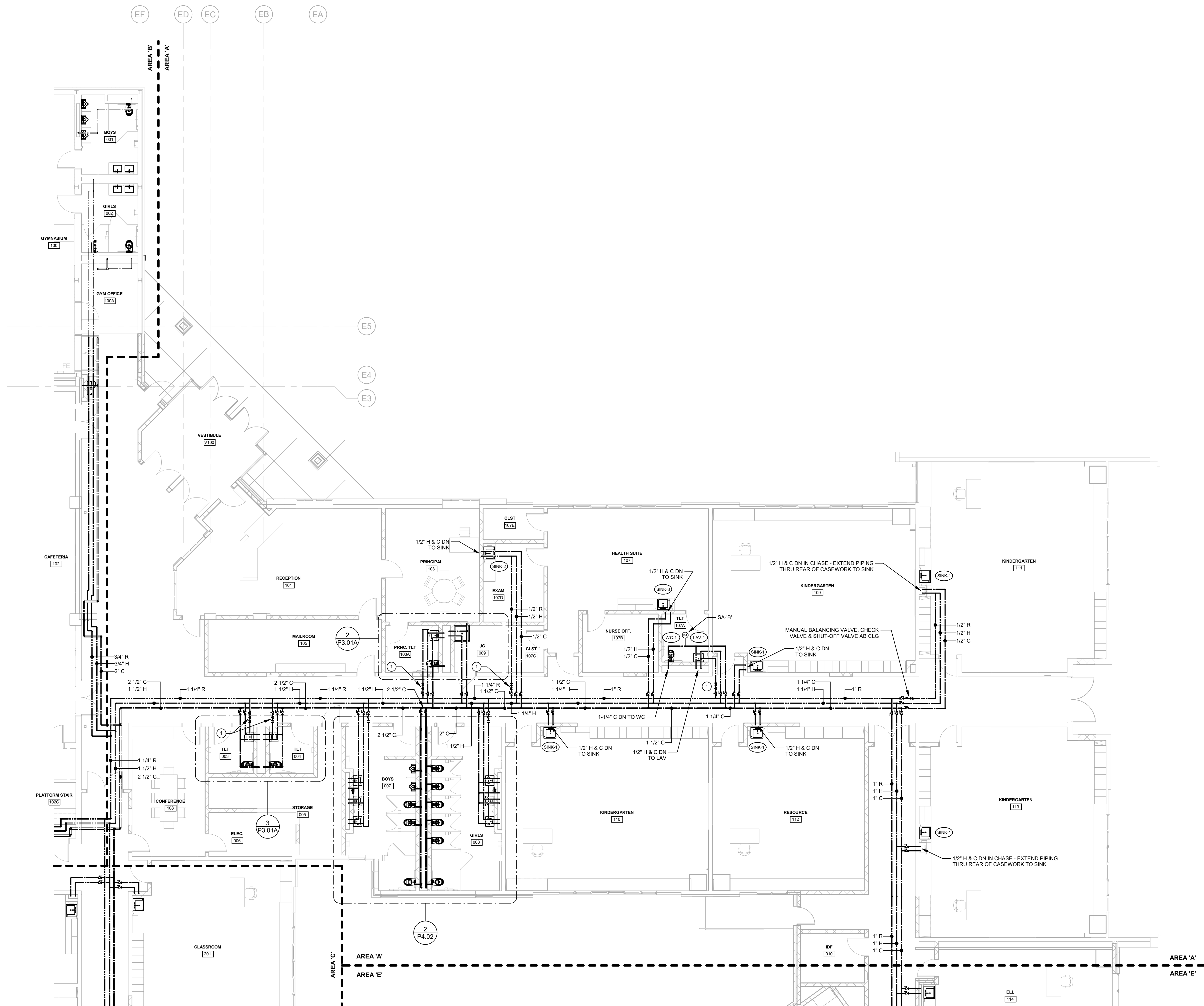
P3 01A

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1 FLOOR PLAN - AREA 'A' - SUPPLY PIPING  
1/8" = 1'-0"





# P3.01B





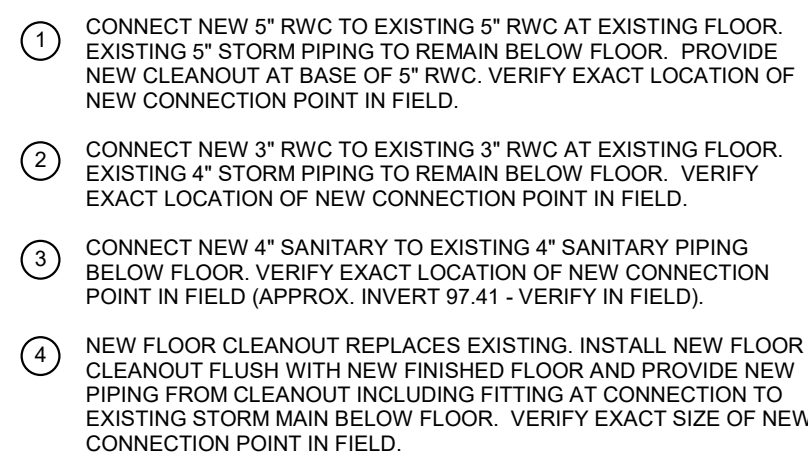
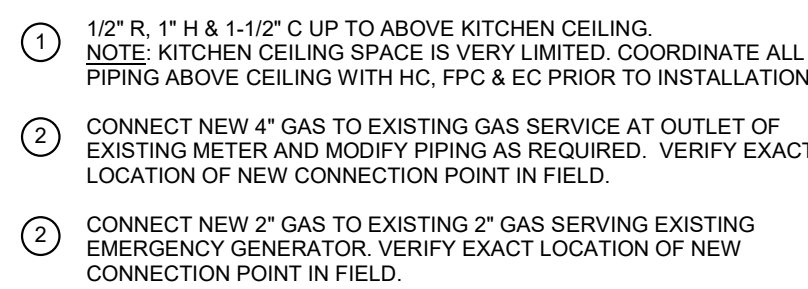






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Approved By:	JRM
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## ENLARGED PLANS - PLUMBING

Seal

DUTY TO INSPECT CONTRACT DOCUMENTS PRIOR

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[illegible]

BHA Job Number: 22-114

Scale: As indicated

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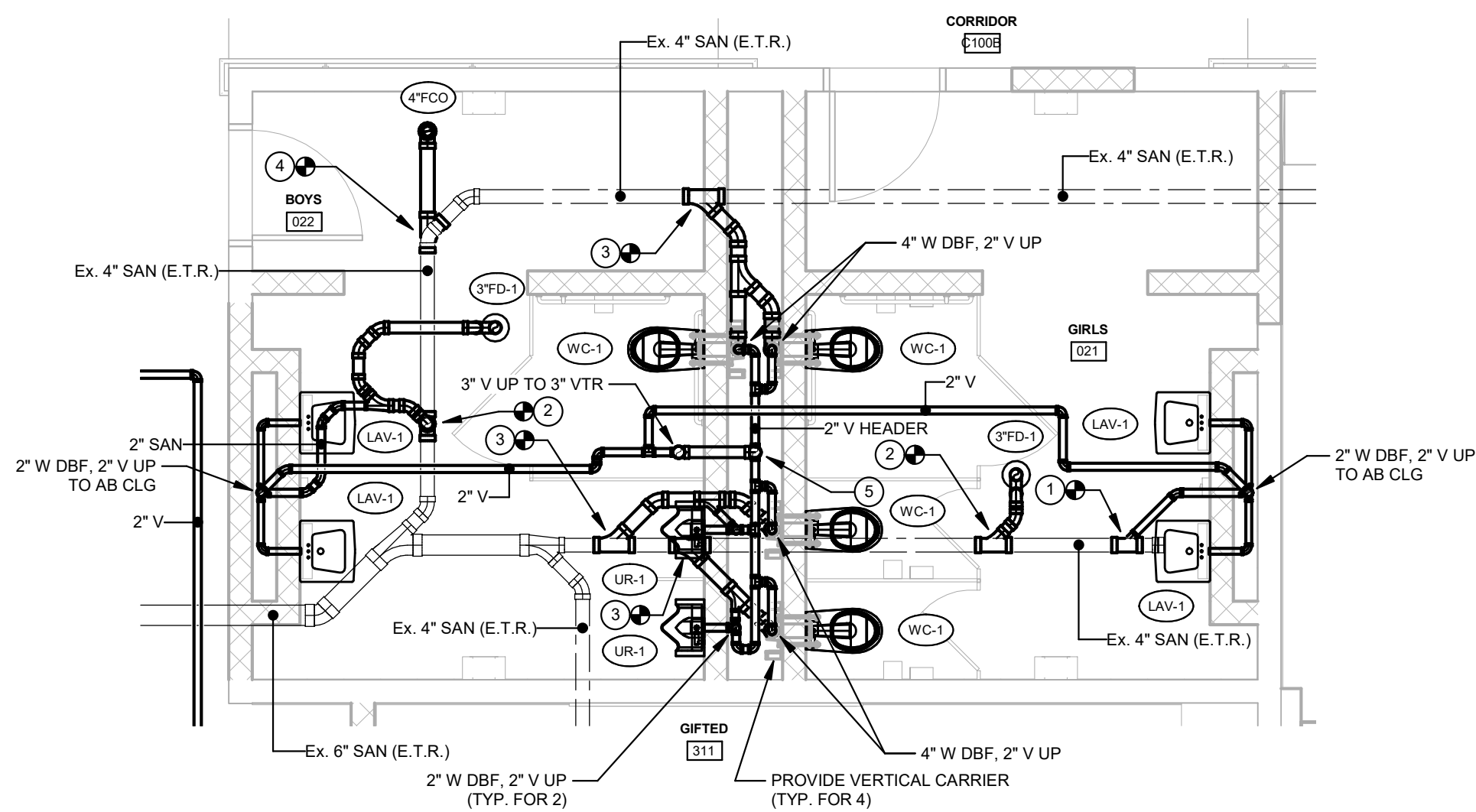
Checked By: K.J.F

Approved By: JRM

Sheet No. \_\_\_\_\_

**P4.02**

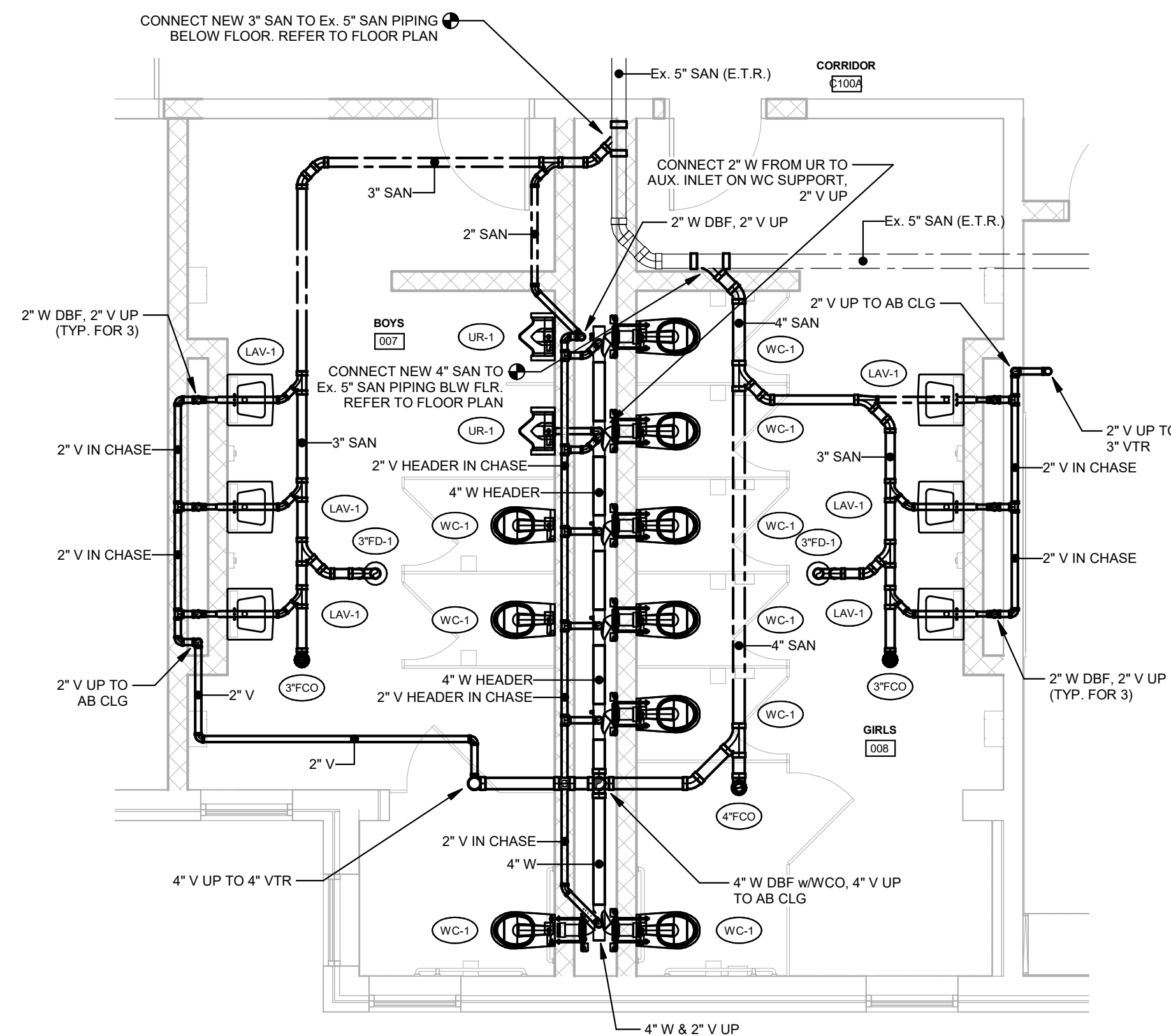
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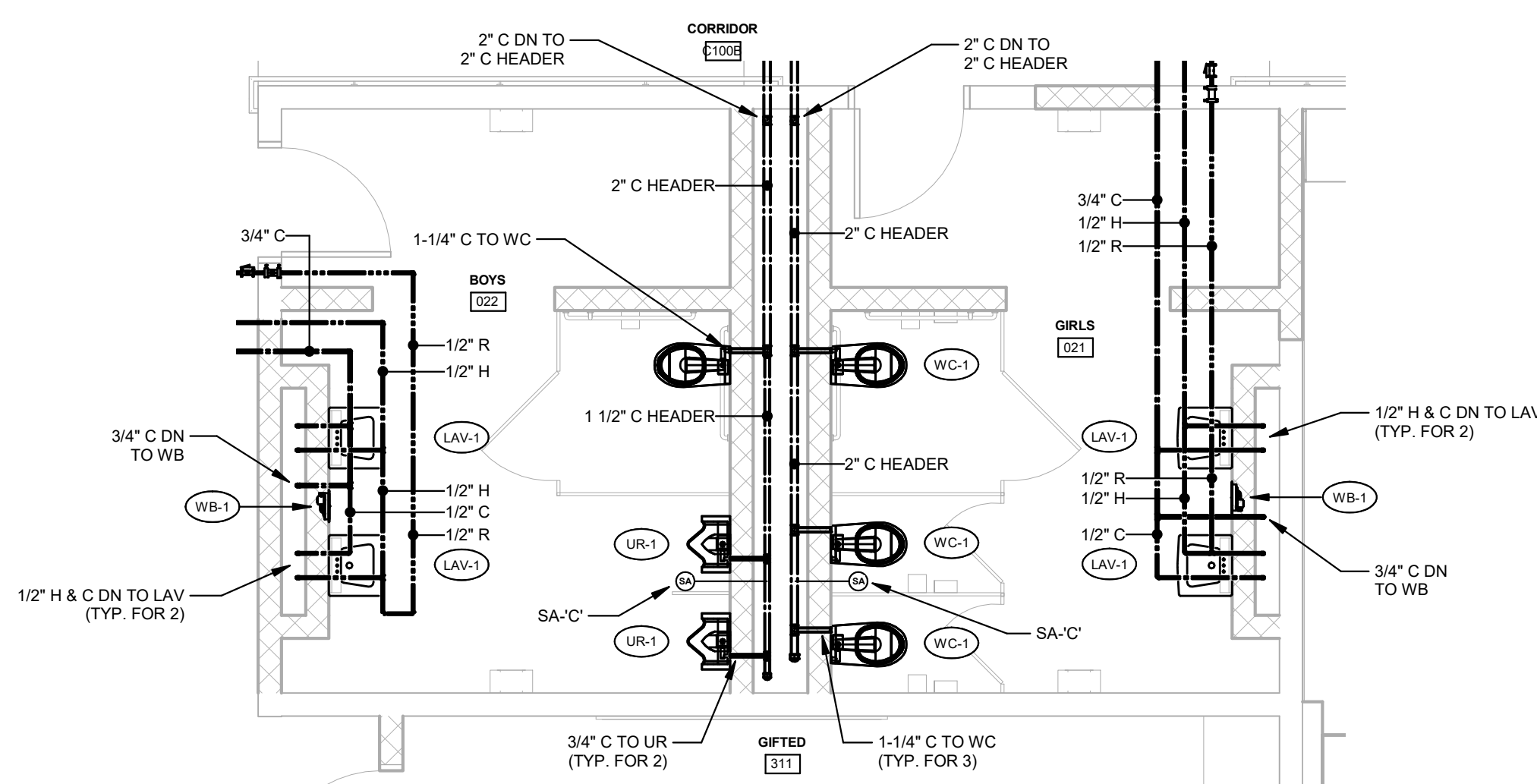
3 ENLARGED PLAN - GIRLS 021 & BOYS 022 - DRAINAGE & VENT PIPING  
1/4" = 1'-0"

PLUMBING DRAWING NOTES:

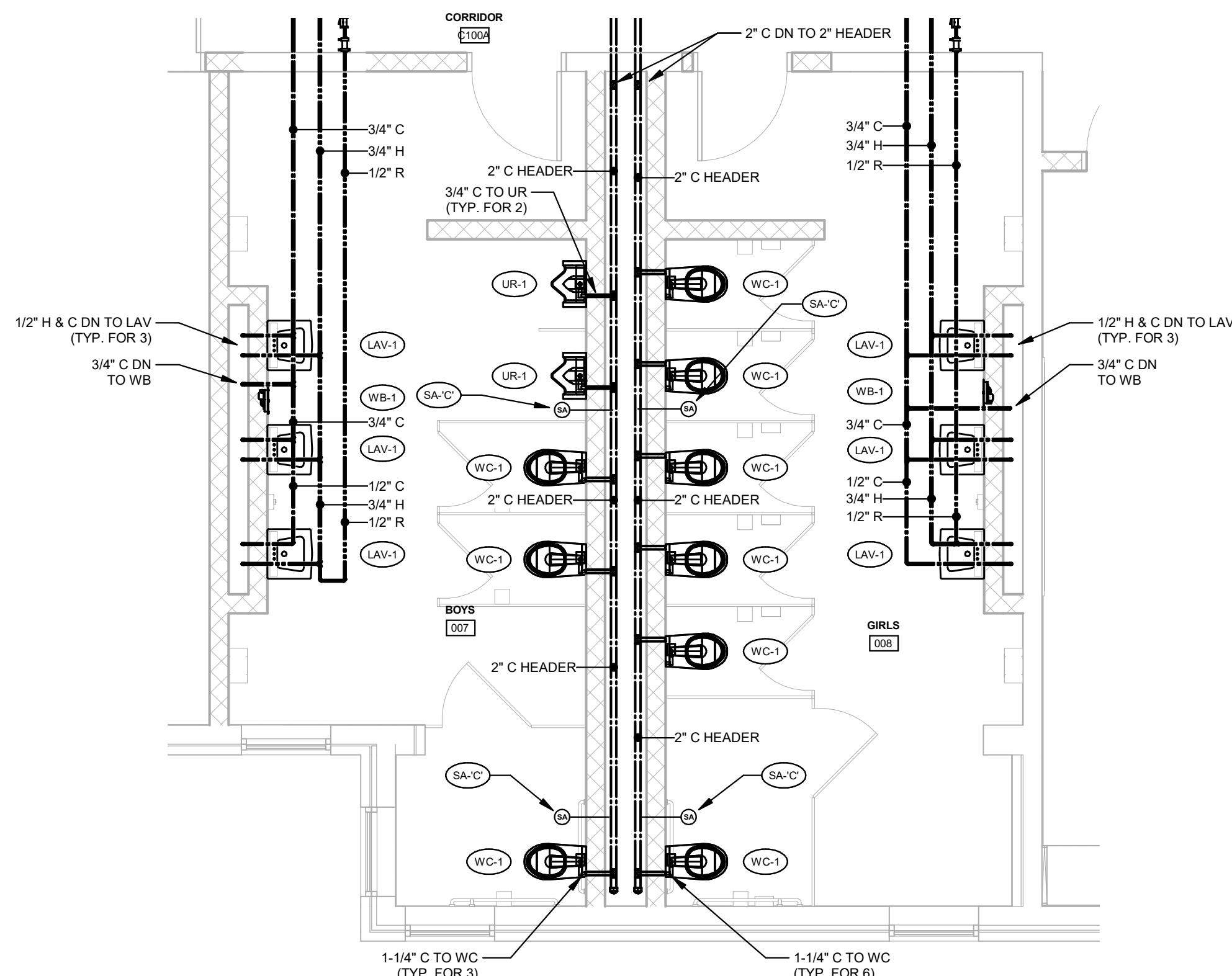
1. CONNECT NEW 2" SANITARY TO EXISTING 4" SANITARY PIPING BELOW FLOOR. VERIFY EXIST SIZE AND LOCATION OF NEW CONNECTION POINT IN FIELD.
2. CONNECT NEW 3" SANITARY TO EXISTING 4" SANITARY PIPING BELOW FLOOR. VERIFY EXIST SIZE AND LOCATION OF NEW CONNECTION POINT IN FIELD.
3. CONNECT NEW 4" SANITARY TO EXISTING 4" SANITARY PIPING BELOW FLOOR. VERIFY EXIST SIZE AND LOCATION OF NEW CONNECTION POINT IN FIELD.
4. CONNECT NEW 4" SANITARY TO EXISTING 4" SANITARY PIPING BELOW FLOOR AND EXTEND BACK TO NEW 4" FLOOR CLEANOUT. VERIFY EXIST SIZE AND LOCATION OF NEW CONNECTION POINT IN FIELD.
5. 3" VENT UP TO ABOVE CEILING.



1 ENLARGED PLAN - BOYS 007 & GIRLS 008 - DRAINAGE & VENT PIPING  
1/4" = 1'-0"



4 ENLARGED PLAN - GIRLS 021 & BOYS 022 - SUPPLY PIPING  
1/4" = 1'-0"



② **ENLARGED PLAN - BOYS 007 & GIRLS 008 - SUPPLY PIPING**  
1/4" = 1'-0"

NOT FOR CONSTRUCTION



Typical Floor Cleanout Detail  
Scale: None

Typical Cleanout To Grade Detail  
Scale: None

Typical Wall Cleanout Detail  
Scale: None

Sanitary/ Storm Building Exit Detail  
Scale: None

### Typical No-Hub Cast Iron Above Slab to PVC Below Slab Transition

Vent Thru Roof Detail  
Scale: None

Typical Cleanout Connection/Installation Details  
Scale: None

Typical Condensate Drain Receptor Detail  
Scale: None

Typical Floor Drain Detail  
Scale: None

Pipe Sleeve Through Wall Detail  
Scale: None

Typical Clevis Hanger Detail  
Scale: None

1. Minimum 12", exact depth to be determined by Architect / Engineer in field based on existing unsuitable sub-sol condition
2. It is the intent that the materials excavated from the trenches is not to be used for trench backfill. Refer to details above for approved backfill materials. Raw excavated materials must be disposed of properly off site by this contractor at no additional cost to the Owner.

"Within road right-of-ways, surface restoration, backfill materials, and methods shall meet the appropriate municipal or Penn-Dot requirements.

Typical Thrust Block Details  
Scale: None

### Mop Receptor and Accessories Detail





