

GENERAL PLUMBING NOTES

GENERAL			
LEAD-FREE STATEMENT SEVERAL PLUMBING FIXTURES DESCRIBED IN THIS SECTION FALL UNDER JURISDICTION OF THE FEDERAL REDUCTION OF LEAD IN DRINKING WATER ACT (42 USC 300g) WHICH MANDATES THAT EFFECTIVE JANUARY 1, 2014 THE WETTED SURFACES OF ANY VALVE, FITTING OR FIXTURE THAT COMES IN CONTACT WITH POTABLE WATER MUST HAVE A WEIGHTED-AVERAGE LEAD CONTENT OF NO MORE THAN 0.25 PERCENT AND 0.2 PERCENT FOR SOLDER AND FLUX. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING PRODUCTS THAT ARE LEAD-FREE PRODUCTS AND MEET THE REQUIREMENTS OF SAFE DRINKING WATER ACT SECTION 1417 (5) (SECTION 9 OF NSF/ANSI STANDARD 61) AND AUTHORITIES HAVING JURISDICTION.			
WHEN A CONFLICT BETWEEN THE DRAWINGS, NOTES AND/OR SPECIFICATIONS OCCUR, THE MORE STRINGENT, AND/OR LARGER QUANTITY AND/OR MORE EXPENSIVE SHALL APPLY. THE REQUIREMENTS LISTED WITHIN NOTES OR SPECIFICATIONS SHALL BE REQUIRED, PROVIDED AND INSTALLED WHETHER SPECIFICALLY INDICATED ON THE DRAWINGS OR NOT.			
IT IS THE INTENTION OF THE SPECIFICATIONS AND DRAWINGS TO PROVIDE FOR FINISHED WORK TESTED AND READY FOR OPERATION.			
ITEMS AND SERVICES NOT SHOWN ON DRAWINGS OR SPECIFICATIONS BUT REQUIRED TO RENDER THE WORK COMPLETE AND READY FOR OPERATION, SHALL BE PROVIDED WITHOUT ADDITIONAL COST.			
WORK OF THIS SECTION SHALL BE COVERED BY THE CONTRACT DOCUMENTS. PROVIDE MATERIALS, LABOR, EQUIPMENT AND SERVICES NECESSARY TO FURNISH, DELIVER AND INSTALL ALL WORK AS SPECIFIED AND AS REQUIRED BY JOB CONDITIONS. WHERE A CONFLICT EXISTS BETWEEN THESE NOTES, THE DRAWINGS AND THE SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL APPLY.			
DRAWINGS ARE DIAGRAMMATIC AND INDICATE A GENERAL ARRANGEMENT OF WORK AND ARE NOT TO BE CONSIDERED SUB-CONTRACTOR DOCUMENTS. IT IS THE INTENT OF THESE DOCUMENTS TO INCLUDE THE PROVISION AND INSTALLATION OF ALL NECESSARY WORK AND MATERIALS FOR COMPLETE, OPERATIONAL AND CODE COMPLAINT SYSTEMS BY THE CONTRACTOR. GENERAL DESIGN CONCEPTS INDICATED MUST BE FOLLOWED OR BETTERED. THE BID SHALL INCLUDE OFFSETS, ADDITIONAL PIPING, VALVES AND EQUIPMENT AND COMPONENTS AS REQUIRED TO MEET CONSTRUCTION CONDITIONS FOR PROPER OPERATION. DO NOT SCALE DRAWINGS. CONSULT ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR SPACE CONDITIONS AND ADDITIONAL REQUIREMENTS.			
PERFORM THE WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT GENERAL CONDITIONS AND WITH THE PROVISIONS OF ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES AND LAWS.			
WORK SHALL INCLUDE ALL INCIDENTALS, LABOR, MATERIAL, EQUIPMENT, APPLIANCES, SERVICES, HOISTING, SCAFFOLDING, SUPPORTS, TOOLS, CONSUMABLE ITEMS, FEES, LICENSES, AND ADMINISTRATIVE TASKS REQUIRED TO COMPLETE AND MAKE OPERABLE WORK SHOWN ON THE DRAWINGS, SPECIFIED HEREIN AND AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.			
STORE MATERIALS INSIDE AND PROTECTED FROM DEBRIS, WEATHER AND MOISTURE.			
THIS CONTRACTOR SHALL PROVIDE AND INSTALL ALL POWER AND CONTROL WIRING REQUIRED FOR EQUIPMENT OPERATION REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. THIS CONTRACTOR SHALL PROVIDE MOTOR STARTERS FOR INSTALLATION. COORDINATE REQUIREMENTS.			
PROVIDE AND INSTALL ALL MAKE-UP WATER DISTRIBUTION TO HVAC EQUIPMENT INCLUDING BACKFLOW PREVENTER.			
PROVIDE AND INSTALL INDIRECT CONDENSATE WASTE PIPING AND TRAP TO FLOOR DRAIN OR DRAIN RECEPTOR FROM ALL HVAC EQUIPMENT. PROVIDE ADDITIONAL FLOOR DRAINS WITH TRAP PRIMERS OR DRAIN RECEPTORS AS REQUIRED.			
PLUMBING DEVICES, FAUCETS, VALVES AND FITTINGS REQUIRED FOR SPECIALTY SERVICE EQUIPMENT (IE, KITCHEN, ETC.) SHALL BE PROVIDED BY THIS CONTRACTOR UNLESS OTHERWISE SPECIFIED. THIS CONTRACTOR SHALL PROVIDE AND INSTALL PIPING, CONNECTIONS, DEVICES, VALVES AND EQUIPMENT REQUIRED FOR PROPER OPERATION. COORDINATE REQUIREMENTS.			
KITCHENS AND SIMILAR SPECIALTY AREAS' ALL EXPOSED PIPING, STOPS, COCKS, AND WASTES WHICH ARE VISIBLE SHALL BE CHROME PLATED.			
COORDINATION DRAWINGS			
DEVELOP AND SUBMIT COORDINATION DRAWINGS AS OUTLINED.			
SHEET METAL, PLUMBING AND FIRE PROTECTION SHOP DRAWINGS THAT HAVE BEEN COORDINATED WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS SHALL BE SUBMITTED TO ENGINEER FOR REVIEW. DRAWINGS MUST BE RETURNED FROM ENGINEER EITHER "REVIEWED" OR "FURNISH AS CORRECTED" PRIOR TO BEING USED AS BASIS FOR COORDINATION DRAWINGS.			
AFTER SHEET METAL AND PIPING DRAWINGS HAVE BEEN REVISED PER ENGINEERS COMMENTS, REPRODUCIBLE COPIES SHALL BE SENT TO THE TRADES IN THE FOLLOWING SEQUENCE FOR THE INCLUSION OF THEIR WORK:			
-MECHANICAL SHEET METAL -PLUMBING PIPING -MECHANICAL PIPING -SPRINKLER PIPING -ELECTRICAL WORK -LIFE SUPPORT			
AFTER ALL TRADES HAVE INCLUDED THEIR WORK ON THE COORDINATION DRAWING AND NOTED CONFLICTS, ALL TRADES SHALL MEET TO RESOLVE CONFLICTS AND AGREE TO ACCEPTABLE SOLUTIONS. EACH TRADE SHALL SIGN COORDINATION DRAWINGS. ITEMS NOT SHOWN ON COORDINATION DRAWING IS RESPONSIBILITY OF OMITTING CONTRACTOR AND CONTRACTOR IS SUBJECT TO ADDITIONAL COSTS INCURRED BY OTHER TRADES.			
THE ARCHITECT AND ENGINEER ARE NOT PART OF THE COORDINATION DRAWING PROCESS. THE ENGINEER WILL PROVIDE ASSISTANCE FOR NOTED CONFLICTS ONLY. COORDINATION DRAWINGS ARE NOT TO BE CONSIDERED PIPING OR DUCT SHOP DRAWINGS. THE CONTRACTOR IS REQUIRED TO SUBMIT INDIVIDUAL PIPING AND DUCTWORK SHOP DRAWINGS FOR REVIEW BY THE ENGINEER. PIPING AND DUCTWORK SHOP DRAWINGS SHALL FOLLOW THE DESIGN INTENT OF THE CONTRACT DOCUMENTS.			
SUBMIT FINAL SIGNED COORDINATION DRAWING TO ENGINEER FOR REVIEW. ENGINEER WILL REVIEW COORDINATION DRAWINGS FOR GENERAL ARRANGEMENT AND FOR NOTED CONFLICTS ONLY. SPECIFIC INSTALLATION REQUIREMENTS WILL BE REVIEWED ONLY IN INDIVIDUAL TRADE SHOP DRAWINGS.			
ANY WORK FABRICATED OR INSTALLED PRIOR TO SIGN OFF BY ALL TRADES WHICH IS DEEMED TO BE IN CONFLICT WITH COORDINATION DRAWINGS SHALL BE REMOVED AND RE-INSTALLED IN CONFORMANCE WITH COORDINATION DRAWINGS.			
EACH CONTRACTOR (MENTIONED ABOVE) IS RESPONSIBLE FOR THE COORDINATION OF HIS SUB-CONTRACTORS.			
THE OVERALL COORDINATION OF THE COORDINATION PROCESS IS THE RESPONSIBILITY OF THE CONTRACTOR. THE ENGINEER IS NOT RESPONSIBLE FOR THE COORDINATION PROCESS. THE ENGINEER WILL RESPOND TO QUESTIONS THAT ARISE FROM THE COORDINATION PROCESS. DRAWINGS SUBMITTED WILL BE REVIEWED FOR CLEARLY IDENTIFIED CONFLICTS ONLY. SOLUTIONS TO CONFLICTS WILL NOT BEAR ADDITIONAL COST.			
SHOP DRAWINGS CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO BE APPROVED, REVISED, OR RESUBMITTED AS PER THE ENGINEERS COMMENTS, PRIOR TO CONSTRUCTION. INCLUDING BUT NOT LIMITED TO THE FOLLOWING:			
-PLUMBING FIXTURES -PIPE -BRAZING -INSULATION -VALVES			
-CLEAN OUTS -PIPE SEALS -HANGERS/SUPPORTS -THERMOSTATIC MIXING VALVES -PUMPS			
-DRAINS -FITTINGS -WATER HEATERS -EXPANSION TANKS			
UPON COMPLETION OF INSTALLATION OF PLUMBING FIXTURES AND AFTER UNITS ARE WATER PRESSURIZED, TEST FIXTURES TO DEMONSTRATE CAPABILITY AND COMPLIANCE WITH REQUIREMENTS. CORRECT MALFUNCTIONING UNITS AT SITE, THEN RETEST TO DEMONSTRATE COMPLIANCE; OTHERWISE, REMOVE AND REPLACE WITH NEW UNITS AND PROCEED WITH RETESTING.			
CLEAN PLUMBING FIXTURES, TRIM, AND STRAINERS OF DIRT AND DEBRIS UPON COMPLETION OF INSTALLATION.			
ADJUST WATER PRESSURE AT DRINKING FOUNTAINS, FAUCETS, SHOWER VALVES, AND FLUSH VALVES TO PROVIDE PROPER FLOW STREAM AND SPECIFIED GPM.			
SET FIXTURES LEVEL AND UNIFORMLY, WITH CONNECTIONS AT RIGHT ANGLES TO WALL AND PROPERLY CENTERED. LAY OUT ROUGHINGS ACCURATELY AND IN COORDINATION WITH SPACE AND FINISH REQUIREMENTS.			
LOCATE WASTE OUTLETS AND WATER SUPPLIES AT CONSTANT HORIZONTAL LEVELS, WITH WASTE OUTLET CENTERED ON FIXTURE DRAIN CONNECTION AND WATER SUPPLIES SPACED EQUALLY TO RIGHT AND LEFT.			
DRAINS AND CLEANOUTS			
PROVIDE ALL POURED IN PLACE DRAINS AND CLEANOUTS WITH 24" X 24" FLASHING.			
PROVIDE A MANUFACTURED BRONZE OUTLET FITTING FOR ALL SECONDARY ROOF DRAIN OUTLETS.			
INSTALL EXTERIOR CLEANOUTS WITH A 18" SQUARE X 6" THICK CONCRETE APRON.			
COORDINATE FLOOR DRAIN LOCATIONS WITH RESPECT TO EQUIPMENT HOUSEKEEPING PADS. PLACE DRAINS SUCH THAT EDGE OF THE FLOOR GRATE EXTENDS NO FURTHER THAN 2 INCHES FROM THE SIDE OF THE PAD. CLEANOUT PLUGS SHALL BE BRASS OR PLASTIC. OR OTHER APPROVED MATERIALS. BRASS CLEANOUT PLUGS SHALL BE UTILIZED WITH METALLIC DRAIN, WASTE AND VENT PIPING ONLY, AND SHALL CONFORM TO ASTM A 74, ASME A112.3.1 OR ASME A112.36.2M. CLEANOUTS WITH PLATE-STYLE ACCESS COVERS SHALL BE FITTED WITH CORROSION-RESISTING FASTENERS. PLUGS SHALL HAVE RAISED SQUARE OR COUNTERSUNK SQUARE HEADS. COUNTERSUNK HEADS SHALL BE INSTALLED WHERE RAISED HEADS ARE A TRIP HAZARD. CLEANOUT PLUGS WITH BOROSILICATE GLASS SYSTEMS SHALL BE OF BOROSILICATE GLASS.			
CLEANOUTS SHALL BE LOCATED AT MINIMUM INTERVALS OF 50 FEET FOR PIPING NPS 4 AND SMALLER AND 100 FEET FOR LARGER PIPING.			
BUILDING SEWERS SHALL BE PROVIDED WITH CLEANOUTS LOCATED NOT MORE THAN 100 FEET APART MEASURED FROM THE UPSTREAM ENTRANCE OF THE CLEANOUT. FOR BUILDING SEWERS 8 INCHES AND LARGER, MANHOLES SHALL BE PROVIDED AND LOCATED NOT MORE THAN 200 FEET FROM THE JUNCTION OF THE BUILDING DRAIN AND BUILDING SEWER, AT EACH CHANGE IN DIRECTION AND AT INTERVALS OF NOT MORE THAN 400 FEET APART. MANHOLES AND MANHOLE COVERS SHALL BE OF AN APPROVED TYPE.			
CLEANOUTS SHALL BE INSTALLED AT EACH CHANGE OF DIRECTION OF THE BUILDING DRAIN OR HORIZONTAL WASTE OR SOIL LINES GREATER THAN 45 DEGREES (INCLUDING P-TRAPS), WHERE MORE THAN ONE CHANGE OF DIRECTION OCCURS IN A RUN OF PIPING. ONLY ONE CLEANOUT SHALL BE REQUIRED FOR EACH 40 FEET OF DEVELOPED LENGTH OF THE DRAINAGE PIPING.			
A CLEANOUT SHALL BE PROVIDED AT THE BASE OF EACH WASTE OR SOIL STACK.			
THERE SHALL BE A CLEANOUT NEAR THE JUNCTION OF THE BUILDING DRAIN AND THE BUILDING SEWER. THE CLEANOUT SHALL BE EITHER INSIDE OR OUTSIDE THE BUILDING WALL AND SHALL BE BROUGHT UP TO THE FINISHED GROUND LEVEL OR TO THE BASEMENT FLOOR LEVEL. AN APPROVED TWO-WAY CLEANOUT IS ALLOWED TO BE USED AT THIS LOCATION TO SERVE AS A REQUIRED CLEANOUT FOR BOTH THE BUILDING DRAIN AND BUILDING SEWER. THE CLEANOUT AT THE JUNCTION OF THE BUILDING DRAIN AND BUILDING SEWER SHALL NOT BE REQUIRED IF THE CLEANOUT ON A 3-INCH OR LARGER DIAMETER SOIL STACK IS LOCATED WITHIN A DEVELOPED LENGTH OF 10 FEET OF THE BUILDING DRAIN AND BUILDING SEWER CONNECTION.			
CONCEALED PIPING, CLEANOUTS ON CONCEALED PIPING OR PIPING UNDER A FLOOR SLAB OR IN A CRAWL SPACE OF LESS THAN 24 INCHES IN HEIGHT OR A PLENUM SHALL BE EXTENDED THROUGH AND TERMINATE FLUSH WITH THE FINISHED WALL, FLOOR OR GROUND SURFACE OR SHALL BE EXTENDED TO THE OUTSIDE OF THE BUILDING. CLEANOUT PLUGS SHALL NOT BE COVERED WITH CEMENT, PLASTER OR ANY OTHER PERMANENT FINISH MATERIAL, WHERE IT IS NECESSARY TO CONCEAL A CLEANOUT OR TO TERMINATE A CLEANOUT IN AN AREA SUBJECT TO VEHICULAR TRAFFIC, THE COVERING PLATE, ACCESS DOOR OR CLEANOUT SHALL BE OF AN APPROVED TYPE DESIGNED AND INSTALLED FOR THIS PURPOSE.			
MINIMUM SIZE. CLEANOUTS SHALL BE THE SAME NOMINAL SIZE AS THE PIPE THEY SERVE UP TO 4 INCHES. FOR PIPES LARGER THAN 4 INCHES NOMINAL SIZE, THE MINIMUM SIZE OF THE CLEANOUT SHALL BE 4 INCHES.			
CAST-IRON CLEANOUT SIZING SHALL BE IN ACCORDANCE WITH ASTM A 74 FOR HUB AND SPIGOT FITTINGS OR ASTM A 888 OR CISPI 301 FOR HUBLESS FITTINGS.			
ACCESS SHALL BE PROVIDED TO ALL CLEANOUTS.			
MISCELLANEOUS SPECIALTIES			
PROVIDE AND INSTALL ACCESS DOORS FOR EACH VALVE, CLEANOUT OR PLUMBING DEVICE REQUIRING ACCESS. ACCESS DOORS SHALL BE RIGID CONSTRUCTION WITH TWO HINGES AND A LATCH. IN PLENUM CEILINGS, PROVIDE FELT BETWEEN THE DOOR AND FRAME TO MAKE AN AIR TIGHT SEAL. ACCESS DOORS SHALL BE RATED TO THE SAME OR GREATER RATING OF THE PARTITION IN WHICH THEY ARE INSTALLED. ACCESS DOORS SHALL BE FLUSH MOUNTED, PRIME COATED WITH RUST INHIBITIVE PAINT, CONCEALED FRAME, FLUSH SCREW DRIVER OPERATED LOCKS WITH METAL CAMS AND ANCHORS AS REQUIRED.			
ACCESS DOOR SIZES SHALL BE: 12" X 12" AT EASILY ACCESSIBLE ITEMS 16" X 16" WHERE PARTIAL BODY ACCESS IS REQUIRED 24" X 24" WHERE FULL BODY ACCESS IS REQUIRED			
PROVIDE AND INSTALL DRIP PANS WITH WATER DETECTOR AND DRAIN FOR PIPING REQUIRED BY ACTUAL FIELD CONDITIONS WHERE PIPING PASSES OVER INCLUDING AREA WITHIN 3'-0" OF ELECTRICAL EQUIPMENT.			
DO NOT INSTALL AIR GAP BACKFLOW PREVENTERS IN CONCEALED SPACES OR IN AREAS WHERE SPRASHING WATER WILL DAMAGE FINISHES. PROVIDE AND INSTALL AN OVERSIZED COPPER FUNNEL WITH AIR GAP DIRECTLY BELOW PND PRESSURE RELIEF PORT. PIPE FUNNEL TO SPILL AS AN INDIRECT WASTE TO AN APPROVED DRAIN LOCATION.			
INSTALL AUTOMATIC TRAP PRIMERS SERVING ALL DRAINS. INSTALL ALL TRAP PRIMER VALVES IN AN ACCESSIBLE LOCATION. PROVIDE AND INSTALL ACCESS PANELS AND DOORS WHERE REQUIRED TO GAIN ACCESS IN CONCEALED CONSTRUCTION.			
PIPING GENERAL			
NO PIPING SHALL BE COVERED UNTIL TESTED APPROVED BY THE AUTHORITIES HAVING JURISDICTION.			
ALL PIPING SHALL BE RUN PERPENDICULAR AND/OR PARALLEL TO FLOORS, INTERIOR WALLS, ETC. PIPING AND VALVES SHALL BE GROUPED NEATLY AND SHALL BE RUN AS TO MAXIMIZE HEADROOM OR PASSAGE CLEARANCE. ALL VALVES, CONTROLS AND ACCESSORIES CONCEALED IN FURRED SPACES AND REQUIRING ACCESS FOR OPERATION AND MAINTENANCE SHALL BE ARRANGED TO ASSURE THE USE OF A MINIMUM NUMBER OF ACCESS DOORS.			

ALL PIPE LINES MADE WITH SCREWED FITTINGS MUST BE PROVIDED WITH A SUFFICIENT NUMBER OF FLANGES AND/OR UNIONS TO ALLOW FOR EASY AND CONVENIENT DISMANTLING OF THE SYSTEM WITHOUT BREAKING FITTINGS.

ALL PIPING SHALL RUN CONCEALED IN FURRED SPACES OF OCCUPIED AREAS OR CHASES. CONTRACTOR SHALL OBTAIN PERMISSION TO RUN ANY EXPOSED PIPES.

CAP ALL PIPE AND EQUIPMENT OUTLETS DURING CONSTRUCTION AND KEEP LINES AND INSIDE OF EQUIPMENT FREE OF FOREIGN MATERIALS.

PROVIDE FOR EXPANSION WITHOUT WARPING OR DISLOCATING LINES OR STRAINING CONNECTED EQUIPMENT. INSTALL PIPING TO CLEAR BUILDING CONSTRUCTION AND TO AVOID INTERFERENCE WITH OTHER WORK. THE CONTRACTOR SHALL PROVIDE AND INSTALL COMPLETE PIPING EXPANSION SYSTEM (INCLUDING SEISMIC JOINT EXPANSION) AND DEVICES AS REQUIRED FOR PROPER EXPANSION COMPENSATION STAMPED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF THE PROJECT.

THE DRAWINGS INDICATE SCHEMATICALLY THE SIZE AND LOCATION OF PIPING. PIPING SHALL BE SET UP AND DOWN AND OFFSET AS REQUIRED TO MEET CONSTRUCTION CONDITIONS.

THIS CONTRACTOR SHALL INFORM HIMSELF FROM THE GENERAL CONSTRUCTION SPECIFICATIONS AND PLANS, OF THE EXACT DIMENSION OF FINISHED WORK AND OF THE HEIGHT OF FINISHED CEILINGS IN ALL ROOMS WHERE EQUIPMENT OR PIPES ARE TO BE PLACED AND ARRANGE HIS WORK IN ACCORDANCE WITH THE SCHEDULE OF INTERIOR FINISHES, AS INDICATED ON THE ARCHITECTURAL DRAWINGS.

WATER PIPING SHALL BE RUN FREE OF TRAPS AND UNNECESSARY BENDS. ANY TRAPS FORMED SHALL BE PROVIDED WITH HOSE END DRAIN VALVES WITH THREADED CAP AND CHAIN TO COMPLETELY DRAIN THE SYSTEM.

PROVIDE SECTION CUT-OFF VALVES ON ALL MAINS AND BRANCHES. PITCH AND VALVE ALL WATER PIPING FOR CONVENIENT DRAINAGE.

WHEREVER DISSIMILAR METALS ARE JOINED TOGETHER AN APPROVED DIELECTRIC FITTING SHALL BE USED. THE DIELECTRIC FITTING SHALL BE A LISTED ASSEMBLY.

RUN ALL SOIL, WASTE AND VENT PIPING SHOWN OR REQUIRED BY LOCAL CODES. PIPING SHOWN IS MINIMUM AND IN ACCORDANCE WITH STATE AND FEDERAL CODES. IF LOCAL CODES REQUIRE ADDITIONAL VENTING OR LARGER SIZES, PROVIDE AS REQUIRED.

MAKE ALL CONNECTIONS THROUGH TRAPS. EACH TRAP TO BE VENTED, EITHER BY CIRCUIT, LOOP, OR INDIVIDUAL VENT, AS REQUIRED, BUT NOT LESS THAN SHOWN, OR AS REQUIRED BY LOCAL CODE.

ALL UNDERGROUND PIPING SHALL BE LAID ON 6" SAND AND BACKFILLED WITH CLEAN FINE EARTH COMPACTED TO 1/2" ABOVE PIPE. COMPLETE BACKFILL WITH AVAILABLE EARTH FREE OF LARGE BOULDERS AND SHARP ROCKS. TAMP BACKFILL IN 6" ELEVATIONS AND OVERFILL TO ALLOW FOR SETTLEMENT.

SET AND PROPERLY CONNECT ALL FIXTURES WITH HOT AND COLD WATER, VENT AND DRAINAGE PIPING, AS REQUIRED AND PROTECT FIXTURES UNTIL ACCEPTANCE AND TEST. CLEAN ALL FLUSH VALVES AFTER TWO WEEKS OF OPERATION.

INSTALL THRUST BLOCKS FOR UNDERGROUND WATER PIPING AT ALL CHANGES IN DIRECTION BOTH HORIZONTALLY AND VERTICALLY. THRUST BLOCKS SHALL BEAR AGAINST UNDISTURBED EARTH OR EARTH. THRUST BLOCKS SHALL BE INSTALLED IN ACCORDANCE WITH THE DUCTILE IRON PIPE RESEARCH ASSOCIATION (DIPRA) MANUAL "THRUST RESTRAINT DESIGN FOR DUCTILE IRON PIPE" AND LOCAL UTILITY COMPANY REQUIREMENTS.

NEW YORK STATE
BUILDING DEPARTMENT PLUMBING NOTES

THE PLUMBING SYSTEMS (SANITARY, STORM, VENT, WATER DISTRIBUTION AND GAS) AND ALL ASSOCIATED EQUIPMENT WILL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE FULL REQUIREMENTS OF THE 2020 BUILDING CODE OF THE STATE OF NEW YORK AS CITED IN THE 2020 NEW YORK STATE PLUMBING CODE (NYSPC).

- THE SANITARY SYSTEM SHALL BE IN FULL ACCORDANCE WITH THE GENERAL PROVISIONS OF SECTION NYSPC 301.
- THE MATERIALS USED IN THE PLUMBING SYSTEM SHALL BE PROVIDED IN FULL ACCORDANCE WITH SECTIONS NYSPC 303 AND NYSPC 402.
- EQUIPMENT HOOK-UP AND THE JOINING OF PIPING SHALL BE IN FULL COMPLIANCE WITH SECTIONS NYSPC 605 AND NYSPC 705.
- THE INSTALLATION OF FIXTURES SHALL BE IN FULL ACCORDANCE WITH SECTION NYSPC 405.
- TRAPS FOR FIXTURES AND DRAIN LINES SHALL BE PROVIDED AND CLEANOUTS INSTALLED IN FULL ACCORDANCE WITH SECTIONS NYSPC 708 AND NYSPC CHAPTER 10.
- VERTICAL AND HORIZONTAL PIPING SHALL BE HUNG AND SUPPORTED AS DIRECTED IN SPECIFICATIONS AND IN THE FULL COMPLIANCE WITH SECTION NYSPC 308.
- THE WATER SUPPLY SYSTEM OF THE SUBJECT BUILDING SHALL BE INSTALLED AND MAINTAINED IN FULL COMPLIANCE WITH CHAPTER 6.
- THE SANITARY DRAINAGE SYSTEM OF THE SUBJECT BUILDING SHALL BE INSTALLED IN FULL COMPLIANCE WITH THE NYSPC CHAPTER 7.
- THE VENT PIPING FOR THE SANITARY DRAINAGE SYSTEM OF THE SUBJECT BUILDING SHALL BE INSTALLED IN FULL COMPLIANCE WITH SECTION NYSPC 702 AND NYSPC CHAPTER 9.
- TEMPORARY TOILET FACILITIES SHALL BE PROVIDED FOR WORKERS AS PER SECTION NYSPC 311.
- RODENT PROOFING SHALL BE DONE IN ACCORDANCE WITH SECTION PC NYSPC 304.
- CHANGES IN DIRECTION IN DRAINAGE PIPING SHALL BE MADE WITH APPROPRIATE USE OF 45 DEGREE WYES, LONG SWEEPS, SHORT SWEEPS, SIXTH, EIGHT OR SIXTEENTH BENDS OR BY A COMBINATION OF THESE OR EQUIVALENT FITTINGS. FOR LIMITATIONS ON FITTINGS SEE SECTION NYSPC 706.3 AND TABLE 706.3.
- SANITARY TEES MAY BE USED IN DRAINAGE LINES ONLY WHERE THE DIRECTION OF FLOW IS FROM THE HORIZONTAL TO THE VERTICAL. FOR LIMITATIONS ON DOUBLE SANITARY TEES SEE SECTION NYSPC 706.3.
- SHORT SWEEPS AND QUARTER BENDS WILL BE PERMITTED IN DRAINAGE PIPING 3 INCH DIAMETER OR LARGER AND FIXTURE DRAINS 2 INCH DIAMETER AND SMALLER FOR ANY OFFSETS EITHER HORIZONTAL OR VERTICAL. HORIZONTAL TO HORIZONTAL CONNECTIONS WILL BE PERMITTED FOR 2 INCH DIAMETER OR SMALLER FIXTURE DRAINS SEE SECTION TABLE 706.3.
- POTABLE WATER SHALL BE IN COMPLIANCE WITH SECTIONS NYSPC 608 AND NYSPC 610.

PLUMBING LEGEND

SYMBOL OR ABBREVIATION	DESCRIPTION		
-----	EXISTING PIPE/EQUIPMENT TO REMAIN		
--X--X--X--X--X--X--X--X--	EXISTING PIPE/EQUIPMENT TO BE REMOVED		
-----S-----	SANITARY PIPING ABOVE FINISHED FLOOR/SLAB (S, SAN.)		
-----W-----	WASTE PIPING ABOVE FINISHED FLOOR/SLAB (W)		
-----S-----	SANITARY PIPING UNDER FINISHED FLOOR/SLAB (S, SAN.)		
-----W-----	WASTE PIPING UNDER FINISHED FLOOR/SLAB (W)		
-----V-----	VENT PIPING (V)		
-----CW-----	DOMESTIC COLD WATER PIPING (CW)		
-----HW-----	DOMESTIC HOT WATER PIPING (HW)		
-----HWC-----	DOMESTIC HOT WATER RECIRC. PIPING (HWC)		
-----FCW-----	FILTERED COLD WATER PIPING (FCW)		
-----D-----	PIPE DROP/DOWN (DN)		
-----R-----	PIPE RISE/UP		
-----BV-----	BALL VALVE		
-----BALV-----	BALANCING VALVE		
-----CV-----	CHECK VALVE		
-----MV-----	MIXING VALVE		
-----C-----	CLEANOUT (CO), WALLPLATE CLEANOUT (WPCO)		
-----DPCO-----	DECKPLATE CLEANOUT (DPCO)		
-----FPHB-----	NON-FREEZE WALL HYDRANT (FPHB)		
-----HB-----	HOSE BIBB (HB)		
-----C-----	CONNECT TO EXISTING		
-----P-----	POINT OF DISCONNECT		
BLDG.	BUILDING	L#	LAVATORY - TYPE
C.I.	CAST IRON	M1	MOP SINK
CONN.	CONNECT	S#	SINK - TYPE
CD	CLEANOUT	STK.	STACK
D#	FLOOR DRAIN - TYPE	T.P.	TRAP PRIMER
EXIST.	EXISTING	TYP.	TYPICAL
FPHB	FREEZEPROOF HOSE BIBB	V.I.F.	VERIFY IN FIELD
GALV.	GALVANIZED	V.T.R.	VENT THROUGH ROOF
HB	HOSE BIBB	WF#	WATER CLOSET - TYPE
<div>NO. SHEET</div>		DETAIL DESIGNATION SYMBOL	

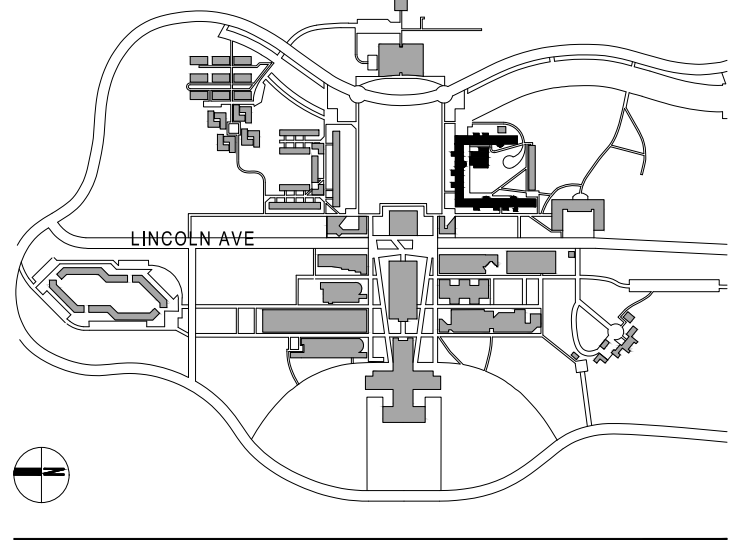

PLUMBING DRAWING LIST

DRAWING NUMBER	DRAWING DESCRIPTION	SHEET #
P-001.00	GENERAL NOTES, SYMBOL LIST AND DRAWING LIST - PLUMBING	1 OF 6
P-100.00	GROUND LEVEL DEMOLITION PLAN - PLUMBING	2 OF 6
P-200.00	GROUND LEVEL CONSTRUCTION PLAN - PLUMBING	3 OF 6
P-300.00	DETAILS & PARTIAL RISER DIAGRAMS - PLUMBING	4 OF 6
P-400.00	SCHEDULES - PLUMBING	5 OF 6
P-500.00	SPECIFICATIONS - PLUMBING	6 OF 6

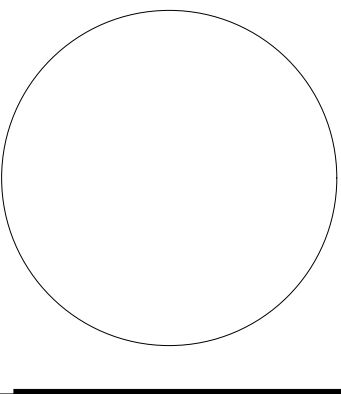
GENERAL DEMOLITION NOTES

- ALL EQUIPMENT, FIXTURES, PIPING ETC. TO BE REMOVED SHALL BE DISPOSED OF, TURNED OVER TO THE OWNER, OR SALVAGED AS DIRECTED BY THE OWNER. EQUIPMENT, FIXTURES, PIPING, DEVICES, ETC. SHALL NOT BE REMOVED FROM THE PREMISES WITH OUT THE OWNERS APPROVAL.
- ALL ABANDONED PIPING TO REMAIN SHALL BE PROPERLY PLUGGED, VALVED, CAPPED AND/OR BY PASSED SUCH THAT UPON COMPLETION OF WORK ALL ABANDONED SYSTEMS ARE PROPERLY CONCEALED, AND THAT EXISTING SYSTEMS TO REMAIN, REMAIN OPERATIONAL.
- NO DEAD ENDS SHALL BE LEFT ON ANY PIPING SYSTEMS UPON COMPLETION OF WORK.
- EXISTING EXPOSED PIPING SYSTEMS NOT TO BE REUSED, AND NOT SPECIFICALLY NOTED FOR REMOVAL SHALL BE COMPLETELY REMOVED. CONTRACTOR SHALL VERIFY PRIOR TO REMOVAL.
- ALL SYSTEMS SHALL BE LEFT IN PERFECT WORKING ORDER UPON COMPLETION OF ALL NEW WORK.
- ALL EXISTING EXPOSED, UNNECESSARY PIPING RELATED TO NEW WORK SHALL BE COMPLETELY REMOVED.
- REROUTE OR REMOVE ALL EXISTING PIPING, AND SYSTEMS WHERE NECESSARY TO AVOID NEW EQUIPMENT, STRUCTURAL, OR MASONRY WORK AS REQUIRED BY THE PROPOSED ALTERATIONS.
- COORDINATE PLUMBING SERVICES SHUT DOWNS (H&CW, WASTE, VENT SYSTEMS) WITH THE BUILDING MANAGER AND UTILITY COMPANY.
- REMOVE ALL EXISTING INDIRECT WASTE UNDER EXISTING MILLWORK

PURCHASE
COLLEGE
STATE UNIVERSITY OF NEW YORK
RESIDENTIAL COMPLEX A
DINING HALL RENOVATION

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	T	929-333-2339	
KEY PLAN			
			
	CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS & DIMENSIONS AND BE RESPONSIBLE FOR FIELD FIT AND QUANTITY OF WORK. NO ALLOWANCES SHALL BE MADE ON BEHALF OF THE CONTRACTOR FOR ANY ERROR OR NEGLECT ON HIS PART.		
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02	05.14.2024	ISSUED FOR BID
01	04.26.2024	ISSUED FOR CLIENT REVIEW
NO	DATE	DESCRIPTION

ISSUES	
SEAL:	
	
ISSUE:	
ISSUED FOR BID	
SCALE: AS NOTED	PROJECT NO: 2403
DATE: 03.25.2024	
DRAWING TITLE:	
GENERAL NOTES, SYMBOL LIST AND DRAWING LIST - PLUMBING	
DRAWING NUMBER	DRAWING

P-001.00

GENERAL DEMOLITION NOTES

1. ALL EQUIPMENT, FIXTURES, PIPING ETC. TO BE REMOVED SHALL BE DISPOSED OF, TURNED OVER TO THE OWNER, OR SALVAGED AS DIRECTED BY THE OWNER. EQUIPMENT, FIXTURES, PIPING, DEVICES, ETC. SHALL NOT BE REMOVED FROM THE PREMISES WITH OUT THE OWNER'S APPROVAL.
2. ALL ABANDONED PIPING TO REMAIN SHALL BE PROPERLY PLUGGED, VALVED, CAPPED AND/OR BY PASSED SUCH THAT UPON COMPLETION OF WORK ALL ABANDONED SYSTEMS ARE PROPERLY CONCEALED, AND THAT EXISTING SYSTEMS TO REMAIN, REMAIN OPERATIONAL.
3. NO DEAD ENDS SHALL BE LEFT ON ANY PIPING SYSTEMS UPON COMPLETION OF WORK.
4. EXISTING EXPOSED PIPING SYSTEMS NOT TO BE REUSED, AND NOT SPECIFICALLY NOTED FOR REMOVAL SHALL BE COMPLETELY REMOVED. CONTRACTOR SHALL VERIFY PRIOR TO REMOVAL.
5. ALL SYSTEMS SHALL BE LEFT IN PERFECT WORKING ORDER UPON COMPLETION OF ALL NEW WORK.
6. ALL EXISTING EXPOSED, UNNECESSARY PIPING RELATED TO NEW WORK SHALL BE COMPLETELY REMOVED.
7. REROUTE OR REMOVE ALL EXISTING PIPING, AND SYSTEMS WHERE NECESSARY TO AVOID NEW EQUIPMENT, STRUCTURAL, OR MASONRY WORK AS REQUIRED BY THE PROPOSED ALTERATIONS.
8. COORDINATE PLUMBING SERVICES SHUT DOWNS (H&CW, WASTE, VENT SYSTEMS) WITH THE BUILDING MANAGER AND UTILITY COMPANY.
9. REMOVE ALL EXISTING INDIRECT WASTE AND WATER SUPPLY PIPING UNDER EXISTING MILLWORK

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SAVE DATE: 5/17/2024 11:23 AM

PLOT DATE: 5/17/2024 11:26 AM



PLUMBING LEGEND

SYMBOL OR ABBREVIATION	DESCRIPTION
EX-X"	EXISTING PIPE/EQUIPMENT TO REMAIN
X-X-X-X-X-X-X-X-X-X	EXISTING PIPE/EQUIPMENT TO BE REMOVED
S	SANITARY PIPING ABOVE FINISHED FLOOR/SLAB (S, SAN.)
W	WASTE PIPING ABOVE FINISHED FLOOR/SLAB (W)
UNG-S	SANITARY PIPING UNDER FINISHED FLOOR/SLAB (S, SAN.)
UNG-W	WASTE PIPING UNDER FINISHED FLOOR/SLAB (W)
V	VENT PIPING (V)
CW	DOMESTIC COLD WATER PIPING (CW)
HW	DOMESTIC HOT WATER PIPING (HW)

PLUMBING SYMBOLS

POINT OF CONNECTION	FLOOR DRAIN
POINT OF DISCONNECT	ROOF DRAIN
DROP DOWN	CHECK VALVE
RISE UP	PLUG VALVE
TRAP	GATE VALVE
DROP	BALL VALVE
TOP TAP	BALANCING VALVE
BOTTOM TAP	HOSE BIBB
DECKPLATE CLEANOUT	FLOW ARROW
CLEANOUT	BREAK SYMBOL

P-TEXT	NOTE TEXT	DETAIL DESIGNATION SYMBOL
PIPE-TEXT	PIPE TAG/SIZING TEXT	NUMBER SHEET
XXX	PLUMBING FIXTURE TAG	
XXX (XXX SQ.FT.)	ROOF DRAIN TAG WITH SQ.FT.	

KEY NOTES

- ALL EXISTING EQUIPMENT TO BE RESET THROUGH OUT THE SPACE SHALL MAINTAIN EXISTING PLUMBING CONNECTIONS AND LOCATION.
- ALL COLD WELLS AND HOT/COLD WELLS ARE MEANT TO FUNCTION WITHOUT WATER, WATER SUPPLY AND DRAIN LINES ARE NOT REQUIRED.

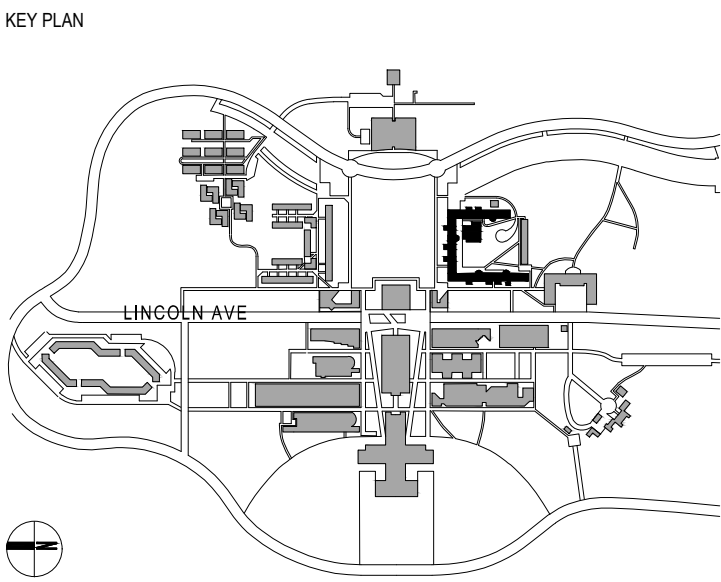
PURCHASE COLLEGE

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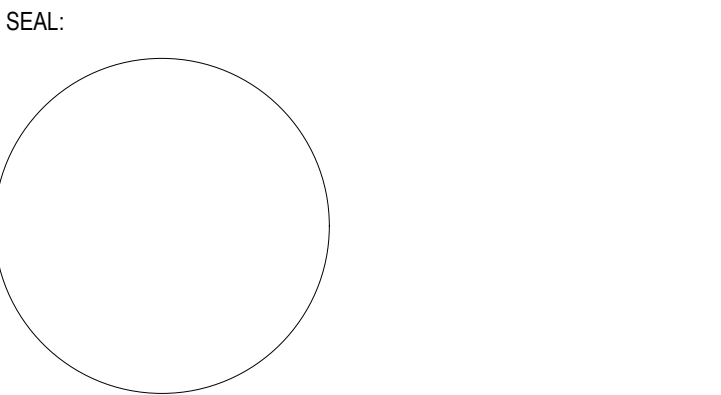


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ISSUES



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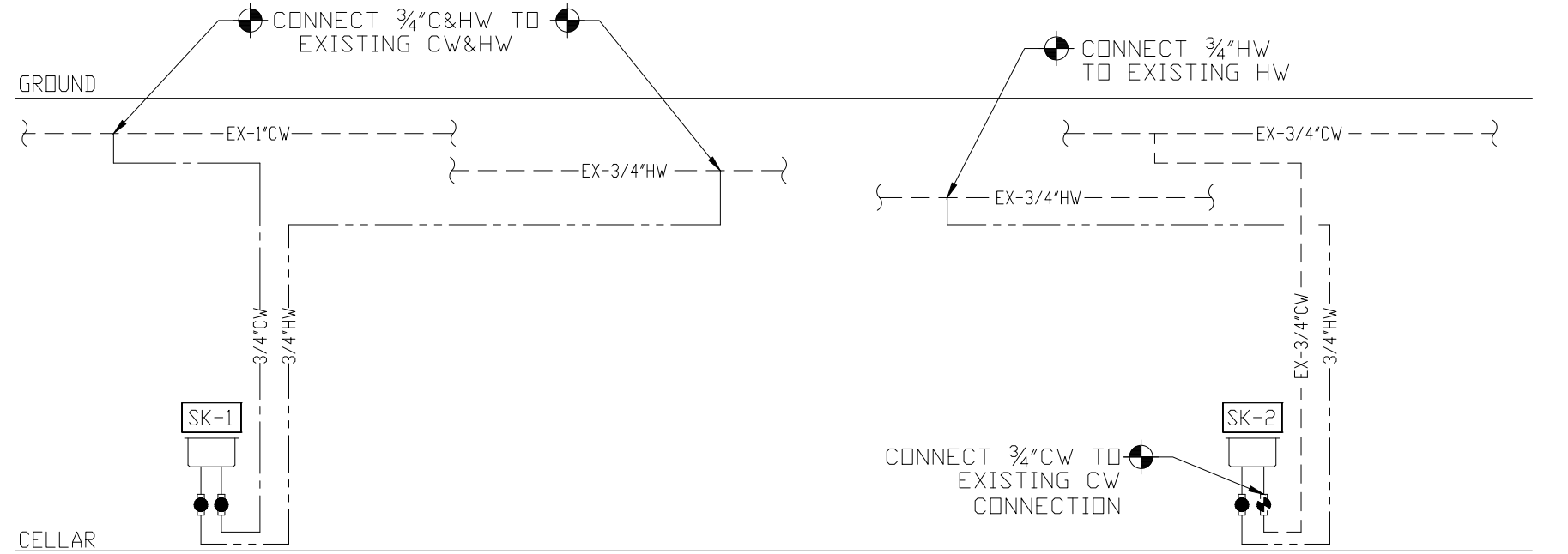
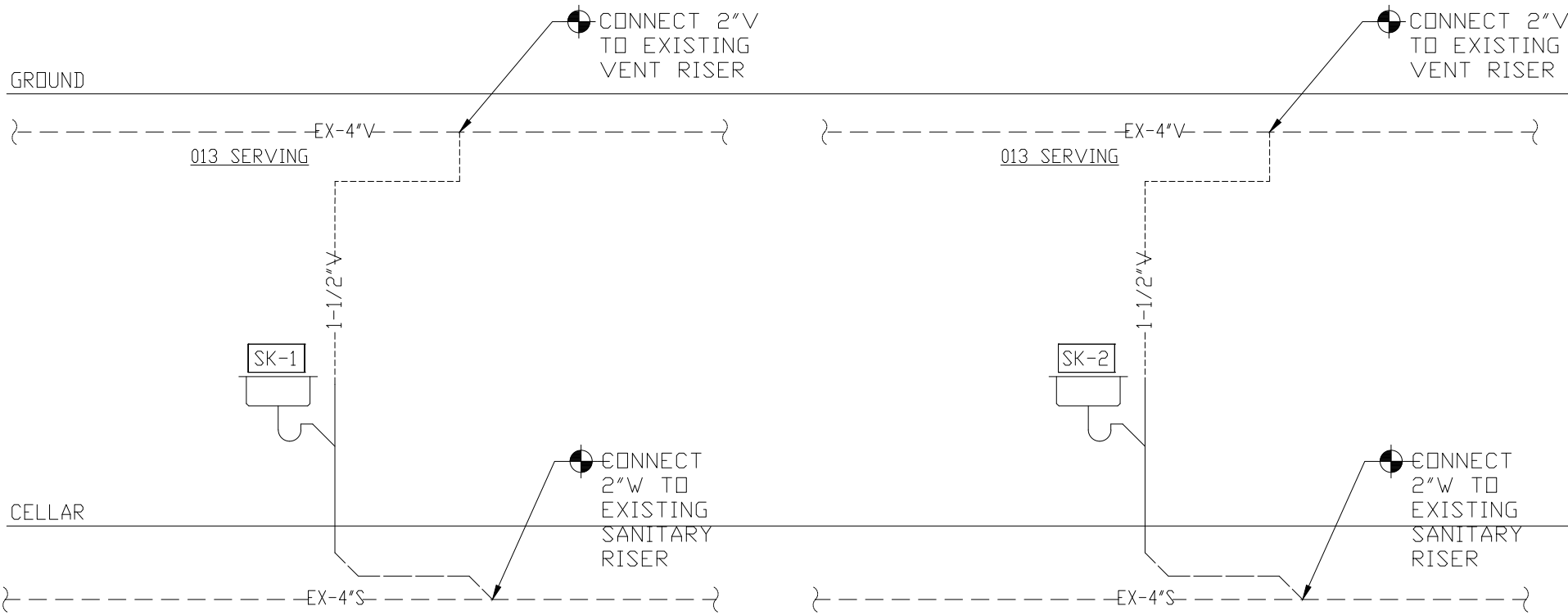
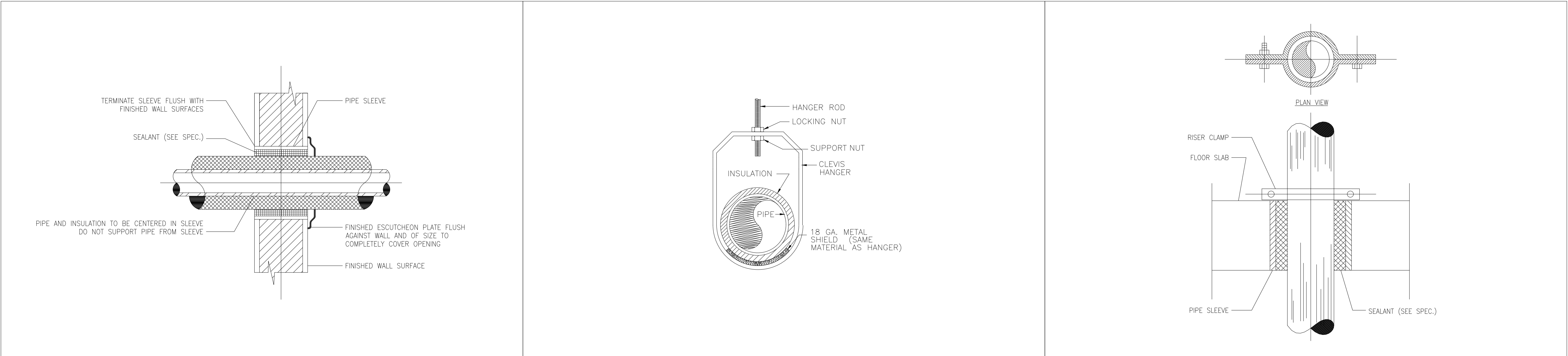
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DRAWING NUMBER DRAWING

P-200.00

SAVE DATE: 5/14/2024 3:11 PM

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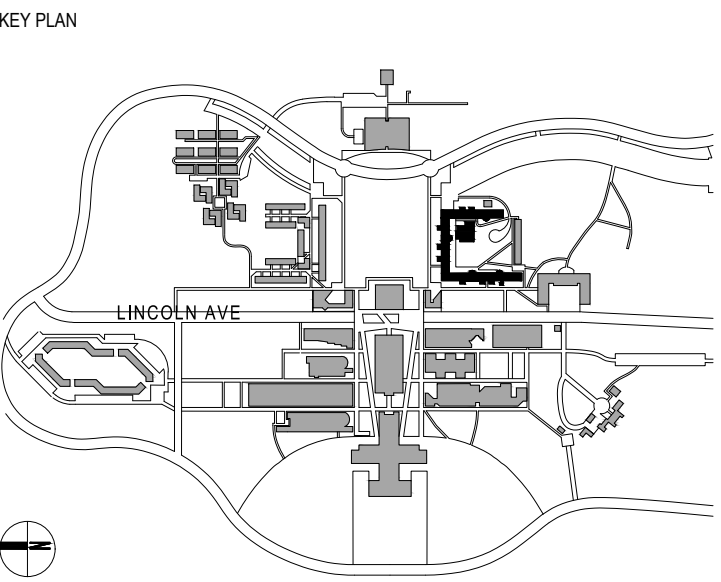
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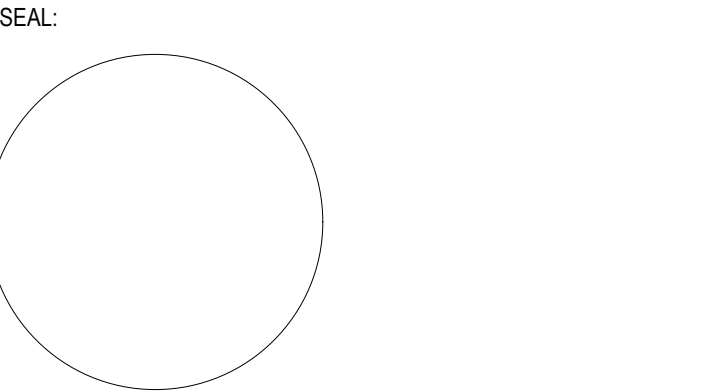


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DRAWING TITLE: **DETAILS AND PARTIAL RISER DIAGRAMS - PLUMBING**

DRAWING NUMBER: **P-300.00**

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PLUMBING FIXTURE SCHEDULE											
FIXTURE TAG	FIXTURE TYPE	FIXTURE MANUFACTURER MODEL, MODEL NO.	MATERIAL	DESCRIPTION	SUPPLY SIZE	TRAP SIZE	MINIMUM BRANCH SIZES				REMARKS
							WASTE/ SANITARY	VENT	COLD WATER	HOT WATER	
SK-1	SINGLE COMP. UNDER-MOUNT SINK	EAGLE GROUP MODEL SR10-14-S-1	STAINLESS STEEL	DECK MOUNTED SINK	1/2"	1-1/2"	1-1/2"	1-1/2"	1/2"	1/2"	-
SK-2	SINGLE COMP. UNDER-MOUNT SINK	EAGLE GROUP MODEL HSA-10-F	STAINLESS STEEL	DECK MOUNTED SINK	1/2"	1-1/2"	1-1/2"	1-1/2"	1/2"	1/2"	-
REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS AND FINISHES											

VALVE SCHEDULE											
DESCRIPTION	SIZE	TYPE							REMARKS	ABBREVIATIONS	
		GATE	GLOBE	CHECK	BALL	PLUG	BALAN.	CLASS		ABB.	DESCRIPTION
DOMESTIC COLD WATER	2" AND SMALLER	GVT	GLVT	CVT	BVT	--	--	125 PSI	--	BVA	BALL VALVE COMPRESSED AIR - 3-PIECE, 600 PSI, FULL PORT, BRONZE
DOMESTIC HOT WATER	2" AND SMALLER	GVT	GLVT	CVT	BVT	--	CBV	125 PSI	--	BVF BVM	BALL VALVE FLANGED - FULL PORT, BRONZE BALL VALVE MEDICAL - CLEANED FOR OXYGEN SERVICE, 3-PIECE, 600 PSI, FULL PORT, BRONZE
										BYT	BALL VALVE THREADED - 2-PIECE, FULL PORT, 400PSI, BRONZE
										CBV	CALIBRATED BALANCING VALVE, BRONZE
										CVF	CHECK VALVE FLANGED - 1BBM
										CVT	CHECK VALVE THREADED - BRONZE
										GVF	GATE VALVE FLANGED - 1BBM
										GVT	GATE VALVE THREADED - BRONZE
										GLVT	GLOBE VALVE THREADED - BRONZE
										PGVF	PLUG VALVE FLANGED - AGA APPROVED
										PGVT	PLUG VALVE THREADED - AGA APPROVED
SOLENOID VALVE: UL LISTED, FM APPROVED FOR GAS SERVICE, EXPLOSION PROOF, TWO-WAY NORMALLY CLOSED. SOLENOID VALVE: ASCO 8044 SERIES W/ MANUAL RESET. (EMERGENCY GAS SHUT-OFF VALVE ASSEMBLY)											

PIPE AND FITTING SCHEDULE									
DESCRIPTION	SIZE	PIPE		FITTING		REMARKS	ABBREV.	DESCRIPTION	
		TYPE	SCHEDULE	TYPE	RATING				
SOIL, WASTE AND VENT ABOVE GROUND	ALL	CI - NH	SV	CI	SV	-	AWWA CI	AMERICAN WATER WORKS ASSOCIATION CAST IRON	
DOMESTIC COLD WATER WITHIN BUILDING	ALL	COPPER	TYPE L	CUS	STD	HARD TEMPERED	CLDI CPVC	CEMENT-LINED DUCTILE IRON CHLORINATED POLYVINYL CHLORIDE	
DOMESTIC HOT WATER PIPING	ALL	COPPER	TYPE L	CUS	STD	HARD TEMPERED	CUS DI	WROUGHT COPPER SOLDER (95/5) DUCTILE IRON	
DOMESTIC HOT WATER RECIRCULATION PIPING	ALL	COPPER	TYPE L	CUS	STD	HARD TEMPERED	DIMJ GES	DUCTILE IRON MECHANICAL JOINT GROOVED END STEEL	
INDIRECT WASTE AND CONDENSATE PIPING	ALL	COPPER	TYPE L	CUS	STD	HARD TEMPERED	GJ GS	GROOVED JOINT SYSTEM FITTINGS/COUPLINGS GALVANIZED STEEL	
							H&S MJ	HUB AND SPIGOT MECHANICAL JOINT	
							MIT NH	MALLEABLE IRON THREADED ND HUB W/HEAVY DUTY 4-BAND HUSKY CLAMP	
							PEX PF	PEX PIPING PRESSURE FITTINGS	
							STD STL-BLK	STANDARD BLACK STEEL SEAMLESS	
							SV TJ	SERVICE WEIGHT THREADED JOINTS	
							WE	BUTT WELD	
NOTE: NO-HUB OR TRANSITION COUPLINGS ARE NOT PERMITTED BELOW GRADE, BELOW SLABS OR BURIED IN CONTACT WITH EARTH.									

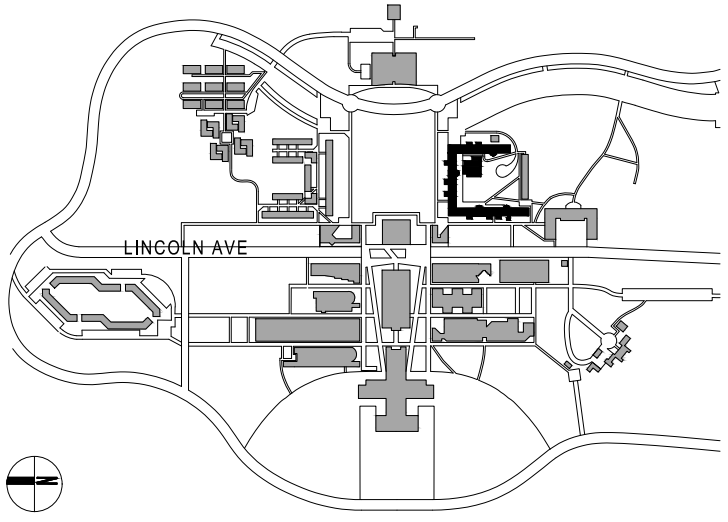
INSULATION SCHEDULE					
SYSTEM	PIPE SIZE	PIPE INSULATION TYPE	PIPE INSULATION THICKNESS	FITTINGS, VALVES, FLANGES - INSULATION TYPE	REMARKS
DOMESTIC COLD WATER	ALL	MINERAL FIBER, ASJ, SSL	1"	MOLDED, PRE-FORMED MINERAL FIBER PVC JACKET	TYPE I
DOMESTIC HOT WATER	ALL	MINERAL FIBER, ASJ, SSL	1"	MOLDED, PRE-FORMED MINERAL FIBER PVC JACKET	TYPE I
KITCHEN WASTE ABOVE GROUND	ALL	MINERAL FIBER, ASJ, SSL	1"	MOLDED, PRE-FORMED MINERAL FIBER PVC JACKET	TYPE I
NOTE 1: FIBERGLASS INSULATION: THERMAL CONDUCTIVITY .22 TO .28 BTU x IN/H x FT x °F W/ 100°F MEAN TEMP. THICKNESS BASED ON ASHRAE 90.1, 2007, TABLE 6.8.3 NOTE 2: PROVIDE INSULATION ON FLOOR DRAIN TRAPS COLLECTING COLD CONDENSATE NOTE 3: REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS					

ALL WETTED SURFACES OF ANY VALVE, FITTING OR FIXTURE THAT COMES IN CONTACT WITH POTABLE WATER MUST HAVE A WEIGHTED-AVERAGE LEAD CONTENT OF NO MORE THAN 0.25 PERCENT.

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KEY PLAN



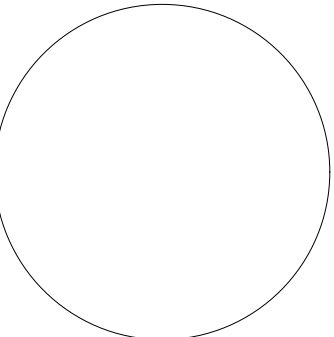
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SCALE:	AS NOTED	PROJECT NO:	2403	DATE:	03.25.2024
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DRAWING TITLE:

SCHEDULES - PLUMBING

DRAWING NUMBER	DRAWING
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P-400.00

DIVISION 15 – MECHANICAL AND PLUMBING

SECTION 15400 PLUMBING GENERAL PROVISIONS

1.00 GENERAL REQUIREMENTS

- A. WORK OF THIS SECTION, AS SHOWN OR SPECIFIED, SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

1.01 COORDINATION OF WORK

- A. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THE WORK OF OTHER TRADES.
- B. COORDINATED COMPOSITE DRAWINGS
1. THE CONTRACTOR SHALL PREPARE FULL COORDINATED COMPOSITE DRAWINGS FOR THE MECHANICAL AND ELECTRICAL TRADES. THE CONTRACTOR SHALL OVERLAY EACH TRADE'S WORK (IN SEPARATE COLORS) ON A BOND SET OF SHEETMETAL DRAWINGS. ALL CONFLICTS AND POTENTIAL CONFLICTS SHALL BE CLEARLY IDENTIFIED ON THE BOND SHEETMETAL DRAWINGS. THIS SHALL INCLUDE BUT NOT BE LIMITED TO CONFLICTS WITH LIGHTS, EQUIPMENT, PIPING, DUCTWORK AND SUPPORTS OF OTHER TRADES, AS WELL AS CONFLICTS WITH ARCHITECTURAL AND STRUCTURAL WALLS, COLUMNS, CEILINGS AND STRUCTURAL BEAMS. CONTRACTOR SHALL HAVE REPRESENTATIVES OF EACH TRADE, AS WELL AS CONFLICTS WITH ARCHITECTURAL AND STRUCTURAL WALLS, COLUMNS, CEILINGS AND STRUCTURAL BEAMS. CONTRACTOR SHALL HAVE REPRESENTATIVES OF EACH TRADE ATTEND A WEEKLY JOB SITE COORDINATION MEETING IN THE CONTRACTOR'S FIELD OFFICE. ALL TRADES SHALL RESOLVE CONFLICTS AT THESE MEETINGS AND SIGN OFF EACH BOND SHEETMETAL DRAWING INDICATING ACCEPTANCE. AND SATISFACTORY RESOLUTION TO ALL CONFLICTS. ALL CONFLICTS THAT CANNOT BE RESOLVED SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.

1.02 CONTRACTOR'S RESPONSIBILITY FOR EVALUATION

- A. THE ENGINEER AND OWNER MAKE NO REPRESENTATIONS, REGARDING THE CHARACTER OR EXTENT OF THE SUBSOILS, WATER LEVELS, EXISTING STRUCTURAL, MECHANICAL AND ELECTRICAL INSTALLATIONS, ABOVE OR BELOW GROUND OR OTHER SUBSURFACE CONDITIONS WHICH MAY BE ENCOUNTERED DURING THE WORK. THE CONTRACTOR MUST MAKE HIS OWN EVALUATION OF EXISTING CONDITIONS, WHICH MAY AFFECT METHODS OR COST OF PERFORMING THE WORK, BASED ON HIS OWN EXAMINATION OF THE FACILITY OR OTHER INFORMATION. FAILURE TO EXAMINE THE DRAWINGS OR OTHER INFORMATION SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY FOR SATISFACTORY ACCOMPLISHMENT OF THE WORK.
- B. THE LOCATIONS OF EXISTING SERVICES ARE BELIEVED TO BE AS INDICATED ON THE PLANS. THE CONTRACTOR SHALL VERIFY THE LOCATION OF THESE SERVICES PRIOR TO COMMENCING ANY WORK AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.

1.03 EQUIPMENT AND MATERIALS

- A. IF PRODUCTS AND MATERIALS ARE SPECIFIED OR INDICATED ON THE DRAWINGS FOR A SPECIFIC ITEM OR SYSTEM, THE CONTRACTOR SHALL USE THOSE PRODUCTS OR MATERIALS. IF PRODUCTS AND MATERIALS ARE NOT LISTED IN EITHER OF THE ABOVE, USE FIRST CLASS PRODUCTS AND MATERIALS, IN ACCORDANCE WITH SHOP DRAWINGS.
- B. ALL PRODUCTS AND MATERIALS SHALL BE NEW, CLEAN, FREE OF DEFECTS AND FREE OF DAMAGE AND CORROSION.
- C. NO PERMANENT EQUIPMENT SHALL BE USED TO PROVIDE TEMPORARY SERVICES DURING CONSTRUCTION.
- D. APPLICABLE EQUIPMENT AND MATERIALS TO BE LISTED BY UNDERWRITERS' LABORATORIES AND MANUFACTURED IN ACCORDANCE WITH ASME, AWWA, OR ANSI STANDARDS, AND AS APPROVED BY LOCAL AUTHORITIES HAVING JURISDICTION.
- E. FULLY LUBRICATE ALL EQUIPMENT WHEN INSTALLED AND PRIOR TO FINAL ACCEPTANCE.
- F. DO NOT OPERATE WATER SYSTEMS UNTIL PIPING HAS BEEN TESTED AND CLEANED.
- G. PLUMBING CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS TO ALL PLUMBING EQUIPMENT.
- H. SECURE EQUIPMENT WITH BOLTS, WASHERS AND LOCKNUTS OF AMPLE SIZE TO SUPPORT EQUIPMENT. EMBEDDED ANCHOR BOLTS TO HAVE BOTTOM PLATE AND PIPE SLEEVES. GROUT ALL MACHINERY SET IN CONCRETE UNDER THE ENTIRE BEARING SURFACE. AFTER GROUT HAS SET, REMOVE ALL WEDGES, SHIMS AND JACK BOLTS AND FILL SPACE WITH GROUT.
- I. LOCATE VALVES, TRAPS, ACCESS DOORS, ETC., TO BE EASILY ACCESSIBLE, EITHER IN MECHANICAL SPACES OR THROUGH ACCESS PANELS SPECIFIED HEREIN.
- J. FOLLOW MANUFACTURERS' INSTRUCTIONS FOR INSTALLING, CONNECTING AND ADJUSTING ALL EQUIPMENT. PROVIDE ONE COPY OF SUCH INSTRUCTIONS TO

THE ENGINEER BEFORE INSTALLING ANY EQUIPMENT. PROVIDE A COPY OF SUCH INSTRUCTIONS AT THE EQUIPMENT DURING ANY WORK ON THE EQUIPMENT. PROVIDE ALL SPECIAL VALVES, PIPING, WIRING AND ACCESSORIES.

1.04 QUALITY ASSURANCE

A. CODES, STANDARDS AND FEES.

1. CODES AND STANDARDS:
- a. COMPLY WITH ALL CURRENT GOVERNING CODES, ORDINANCES AND REGULATIONS, UL AND ALL OTHER APPLICABLE CODES.
- b. COMPLY WITH THE REQUIREMENTS OF THE STATE ADOPTED BUILDING CODE, AND OTHER AGENCIES OR AUTHORITIES HAVING JURISDICTION OVER ANY PART OF THE WORK AND SECURE ALL NECESSARY PERMITS.
- c. WHERE CODES OR STANDARDS ARE LISTED HEREIN, THE APPLICABLE PORTIONS APPLY.
- d. PLANS, SPECIFICATIONS, CODES AND STANDARDS ARE ALL MINIMUM REQUIREMENTS. WHERE REQUIREMENTS DIFFER, APPLY THE MORE STRINGENT.
- e. SHOULD ANY CHANGE IN PLANS OR SPECIFICATIONS BE REQUIRED TO COMPLY WITH GOVERNING REGULATIONS, THE CONTRACTOR IS TO NOTIFY THE ENGINEER AT THE PRE-BID MEETING.
- f. THE CODES AND STANDARDS LISTED IN THE SPECIFICATIONS CAN BE OBTAINED FROM THE ORGANIZATIONS LISTED AS FOLLOWS:
- 1) OSHA OCCUPATIONAL SAFETY AND HEALTH ACT
2) ANSI AMERICAN NATIONAL STANDARD INSTITUTE, INC.
3) ASME AMERICAN SOCIETY OF MECHANICAL ENGINEERS
4) ASTM AMERICAN SOCIETY FOR TESTING AND MATERIALS
5) AWWA AMERICAN WATER WORKS ASSOCIATION
6) UL UNDERWRITERS LABORATORIES, INC.
7) ASHRAE AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR CONDITIONING ENGINEERS
8) NEMA NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
9) AIA AMERICAN INSURANCE ASSOCIATION
10) AWS AMERICAN WELDING SOCIETY
11) ASA AMERICAN STANDARDS ASSOCIATION
12) IEEE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
13) NEC NATIONAL ELECTRICAL CODE
- g. THE PARTICULAR SPECIFICATION WILL BE IDENTIFIED BY APPROPRIATE PREFIX AND NUMBER ONLY WITH THE LATEST REVISION BEING APPLICABLE UNLESS OTHERWISE NOTED.

2. FEES
- a. PAY ALL REQUIRED FEES.
- b. PAY ROYALTIES OR FEES REQUIRED IN CONNECTION WITH THE USE OF PATENTED DEVICES AND SYSTEMS.
- B. FURNISH ALL MATERIALS AND EQUIPMENT NEW, FREE FROM DEFECTS AND WITH LISTINGS OR LABELS OF UNDERWRITER'S LABORATORIES, INC. OR OTHER NATIONALLY APPROVED TESTING LABORATORY.
- C. ALL ITEMS OF A GIVEN TYPE SHALL BE THE PRODUCT OF THE SAME MANUFACTURER.
- D. ALL MATERIALS AND EQUIPMENT SHALL BE THE PRODUCT OF MANUFACTURERS REGULARLY ENGAGED IN THEIR MANUFACTURE.

1.05 SHOP DRAWINGS

- A. PREPARE AND SUBMIT DETAILED SHOP DRAWINGS FOR PIPING WORK AND OTHER DISTRIBUTION SERVICES, INCLUDING LOCATIONS AND SIZES OF ALL OPENINGS IN FLOOR WALLS AND ROOFS.
- B. THE WORK DESCRIBED IN ANY SHOP DRAWING SUBMISSION TO BE CAREFULLY CHECKED FOR ALL CLEARANCES (INCLUDING THOSE REQUIRED FOR MAINTENANCE AND SERVICING), FIELD CONDITIONS, MAINTENANCE OF ARCHITECTURAL CONDITIONS AND PROPER COORDINATION WITH ALL TRADES ON THE JOB. EACH SUBMITTED SHOP DRAWING TO INCLUDE A CERTIFICATION THAT ALL RELATED JOB CONDITIONS HAVE BEEN CHECKED AND THAT NO CONFLICT EXISTS.
- C. ALL DRAWINGS TO BE SUBMITTED SUFFICIENTLY IN ADVANCE OF FIELD REQUIREMENTS TO ALLOW AMPLE TIME FOR CHECKING. ALL SUBMITTALS TO BE COMPLETE AND CONTAIN ALL REQUIRED AND DETAILED INFORMATION, SHOP DRAWINGS WITH MULTIPLE PARTS TO BE SUBMITTED AS A PACKAGE.
- D. REVIEW OF ANY SUBMITTED DATA OR SHOP DRAWINGS FOR MATERIAL, EQUIPMENT APPARATUS, DEVICES, ARRANGEMENT AND LAYOUT SHALL NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY OF FURNISHING SAME OF PROPER DIMENSIONS AND WEIGHT, CAPACITIES, SIZES, QUANTITY, QUALITY AND INSTALLATION DETAILS TO EFFICIENTLY PERFORM THE REQUIREMENTS AND INTENT OF THE WORK. SUCH REVIEW SHALL NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY FOR ERRORS, OMISSIONS OR INADEQUACIES OF ANY SORT ON SUBMITTED DATA OR SHOP DRAWINGS.

- 1.06 START UP
- A. PROPERLY LUBRICATE ALL PIECES OF EQUIPMENT.
- B. CHECK AND CLEAN ALL PIPES OF DIRT AND DEBRIS, INCLUDING STRAINERS.
- C. PREPARE EACH PIECE OF EQUIPMENT IN ACCORDANCE WITH MANUFACTURE'S INSTALLATION INSTRUCTIONS AND HAVE A COPY AT THE EQUIPMENT.
- D. FILL AND VENT ALL WATER SYSTEMS.
- E. CHECK ROTATION ON EACH MOTOR.
- F. HAVE REPRESENTATIVES OF EACH MANUFACTURER PRESENT WHEN HEREINAFTER SPECIFIED, SO THAT EQUIPMENT WILL BE STARTED UP BY MANUFACTURER.

1.07 ACCESS DOORS IN FINISHED CONSTRUCTION

- A. FURNISH ACCESS DOORS AS REQUIRED FOR OPERATION AND MAINTENANCE OF CONCEALED EQUIPMENT, CLEAN OUTS, VALVES, SHOCK ABSORBERS, CONTROLS, ETC., AND COORDINATE THEIR DELIVERY WITH THE INSTALLING TRADE.

1.08 SYSTEM IDENTIFICATION

- A. PIPING:
1. ALL PIPING, EXPOSED OR CONCEALED SHALL BE IDENTIFIED AS TO ITS SERVICE IN ACCORDANCE WITH OSHA AND ANSI STANDARDS BY ONE OF THE FOLLOWING METHODS:
- a. INSTALLATION OF MANUFACTURED ADHESIVE BAND TYPE IDENTIFICATION MARKERS, SIMILAR TO "QUICK-LABEL" BY W.H. BRADY COMPANY.
2. PIPING IDENTIFICATION MARKINGS SHALL BE INSTALLED AS FOLLOWS:
- a. IN EACH ROOM.
- b. ALL VALVE LOCATIONS.
- c. AT SHAFT WALLS.
- d. EVERY 40 FEET ON CONTINUOUS RUNS.
3. VALVES:
- a. VALVES SHALL BE IDENTIFIED BY A TAG SYSTEM UTILIZING BRASS TAGS AT 2 INCH MINIMUM DIAMETER AND ATTACHED TO THE VALVES USING BRASS CHAIN.
- 1) THE NEW VALVE TAG IDENTIFICATION NUMBERS SHALL BE PERMANENTLY ADDED TO ALL EXISTING VALVE TAG CHARTS WITHIN THE BUILDING.
4. EQUIPMENT:
- a. IDENTIFY ALL CONTROLS SUCH AS MOTOR STARTERS NOT IN MOTOR CONTROL CENTERS, FLOAT SWITCHES, AND ALARMS.

1.09 OPERATING & MAINTENANCE INSTRUCTION

- A. PREPARE OPERATING AND MAINTENANCE INSTRUCTIONS MANUAL INCLUDING OPERATING INSTRUCTIONS, MAINTENANCE INSTRUCTIONS, MANUFACTURER'S DATA, SPECIFIC EQUIPMENT DATA.
- B. PROVIDE AN ALPHABETICAL LIST OF ALL SYSTEM COMPONENTS, WITH THE NAME, ADDRESS, AND 24 HOUR PHONE NUMBER OF THE COMPANY RESPONSIBLE FOR SERVICING EACH ITEM DURING THE FIRST YEAR OF OPERATION.
- C. PROVIDE OPERATING INSTRUCTIONS FOR COMPLETE SYSTEM, INCLUDING:
1. NORMAL STARTING, OPERATING, AND SHUT DOWN
2. EMERGENCY PROCEDURES FOR FIRE OR FAILURE OF MAJOR EQUIPMENT
3. SUMMER AND WINTER SPECIAL PROCEDURES
4. DAY AND NIGHT SPECIAL PROCEDURES
- D. PROVIDE MAINTENANCE INSTRUCTIONS, INCLUDING:
1. VALVE TAG LIST AND EQUIPMENT TAG LIST
2. PROPER LUBRICANTS AND LUBRICATING INSTRUCTIONS FOR EACH PIECE OF EQUIPMENT, AND DATE WHEN LUBRICATED
3. REQUIRED CLEANING, REPLACEMENT AND/OR ADJUSTMENT SCHEDULE
- E. PROVIDE MANUFACTURER'S DATA ON EACH PIECE OF EQUIPMENT, INCLUDING:
1. INSTALLATION INSTRUCTIONS.
2. DRAWINGS AND SPECIFICATIONS.
3. PARTS LIST, INCLUDING RECOMMENDED ITEMS TO BE STOCKED.
4. COMPLETE WIRING AND TEMPERATURE CONTROL DIAGRAMS.
5. MARKED OR REVISED PRINTS LOCATING ALL CONCEALED PARTS AND ALL VARIATIONS FROM THE ORIGINAL SYSTEM DESIGN.
6. TEST AND INSPECTION CERTIFICATES.

F. PROVIDE INSTRUCTION OF OPERATING PERSONNEL.

1. INSTRUCT OWNER'S OPERATING PERSONNEL IN PROPER STARTING SEQUENCES, OPERATION, SHUTDOWN, AND MAINTENANCE PROCEDURES, INCLUDING NORMAL AND EMERGENCY PROCEDURES.

G. SUBMITTALS

1. SHOP DRAWINGS: SUBMIT THREE COPIES FOR REVIEW PRIOR TO FINAL ISSUANCE.
2. PROVIDE SIX (6) COPIES OF EACH OPERATION AND MAINTENANCE MANUAL.

1.10 RECORD DRAWINGS

- A. THE CONTRACTOR SHALL MAINTAIN A COMPLETE SET OF "RECORD DRAWINGS" REFLECTING AN ACCURATE DIMENSIONAL RECORD OF ALL WORK. THESE DRAWINGS SHALL BE MARKED UP TO SHOW THE PRECISE LOCATION OF CONCEALED WORK AND EQUIPMENT, INCLUDING CONCEALED PIPING AND VALVES AND ALL CHANGES AND DEVIATIONS IN THE PLUMBING WORK FROM THAT SHOWN ON THE CONTRACT DRAWINGS. THIS REQUIREMENT SHALL NOT BE CONSTRUED AS AUTHORIZATION FOR THE CONTRACTOR TO MAKE CHANGES IN THE LAYOUT OR WORK WITHOUT WRITTEN DEFINITE INSTRUCTION FROM THE ARCHITECT OR ENGINEER.
- B. RECORD DIMENSIONS SHALL CLEARLY AND ACCURATELY DELINEATE THE WORK AS INSTALLED; LOCATION SHALL BE SUITABLY IDENTIFIED BY AT LEAST TWO DIMENSIONS TO PERMANENT STRUCTURES.
- C. THE CONTRACTOR SHALL STAMP ALL "RECORD DRAWINGS" AND CERTIFY FOR CORRECTNESS BY SIGNING AND DATING THEM.
- D. RECORD DRAWINGS SUBMITTED TO OWNER SHALL CONSIST OF 1 SET OF BOND AND 1 SET OF COMPACT DISC (CD'S) WITH ALL WORK PROVIDED ON AUTOCAD 2010 FORMAT.
- E. PRIOR TO FINAL ACCEPTANCE, CONTRACTOR SHALL SUBMIT CERTIFIED "RECORD DRAWINGS" TO THE ARCHITECT/ENGINEER FOR REVIEW AND MAKE CHANGES, CORRECTIONS OR ADDITIONS AS NOTED BY ARCHITECT/ENGINEER. AFTER THIS REVIEW, THE DRAWING SHALL BE DELIVERED TO THE OWNER.

PURCHASE COLLEGE

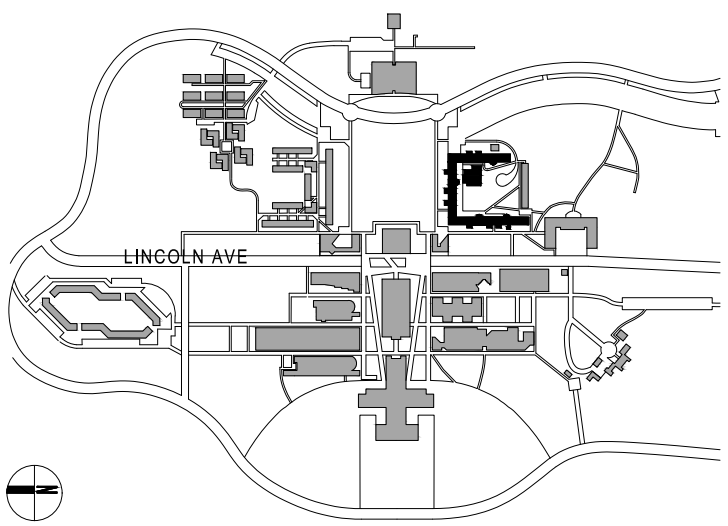
STATE UNIVERSITY OF NEW YORK
RESIDENTIAL COMPLEX A
DINING HALL RENOVATION

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KEY PLAN



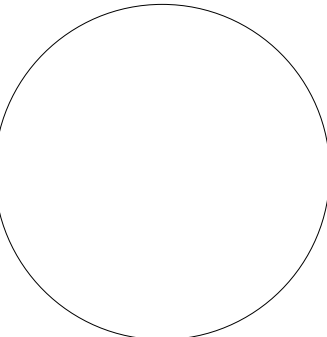
CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS & DIMENSIONS AND BE RESPONSIBLE FOR FIELD FIT AND QUANTITY OF WORK. NO ALLOWANCES SHALL BE MADE ON BEHALF OF THE CONTRACTOR FOR ANY ERROR OR NEGLECT ON HIS PART.

BUILDING DEPARTMENT NOTE:
THIS PLAN IS APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON, OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

02	05.14.2024	ISSUED FOR BID
01	04.26.2024	ISSUED FOR CLIENT REVIEW
NO	DATE	DESCRIPTION

ISSUES

SEAL:



ISSUE:

ISSUED FOR BID

SCALE: AS NOTED PROJECT NO: 2403 DATE: 03.25.2024

DRAWING TITLE:

SPECIFICATIONS - PLUMBING

DRAWING NUMBER

DRAWING

P-500.00