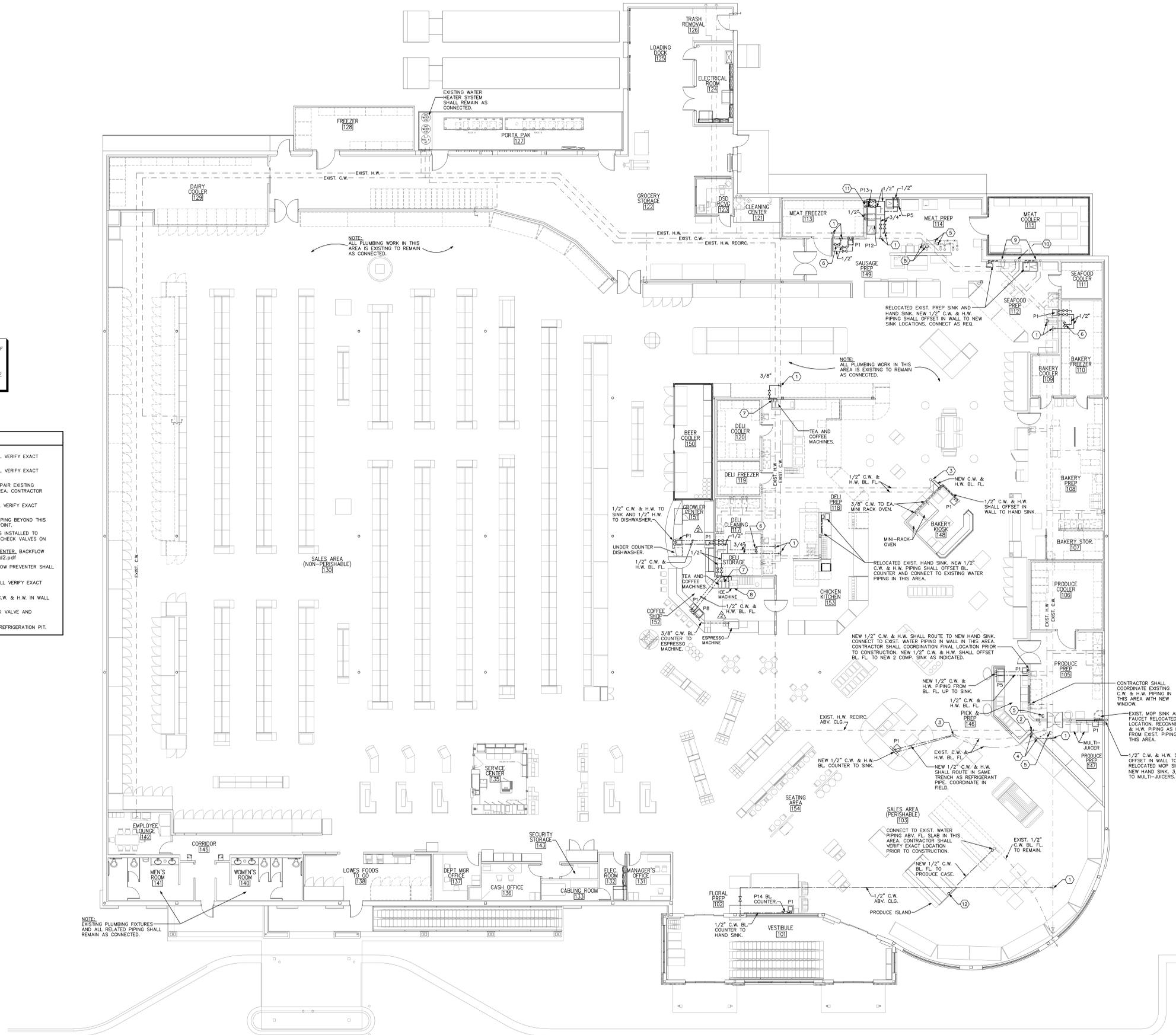




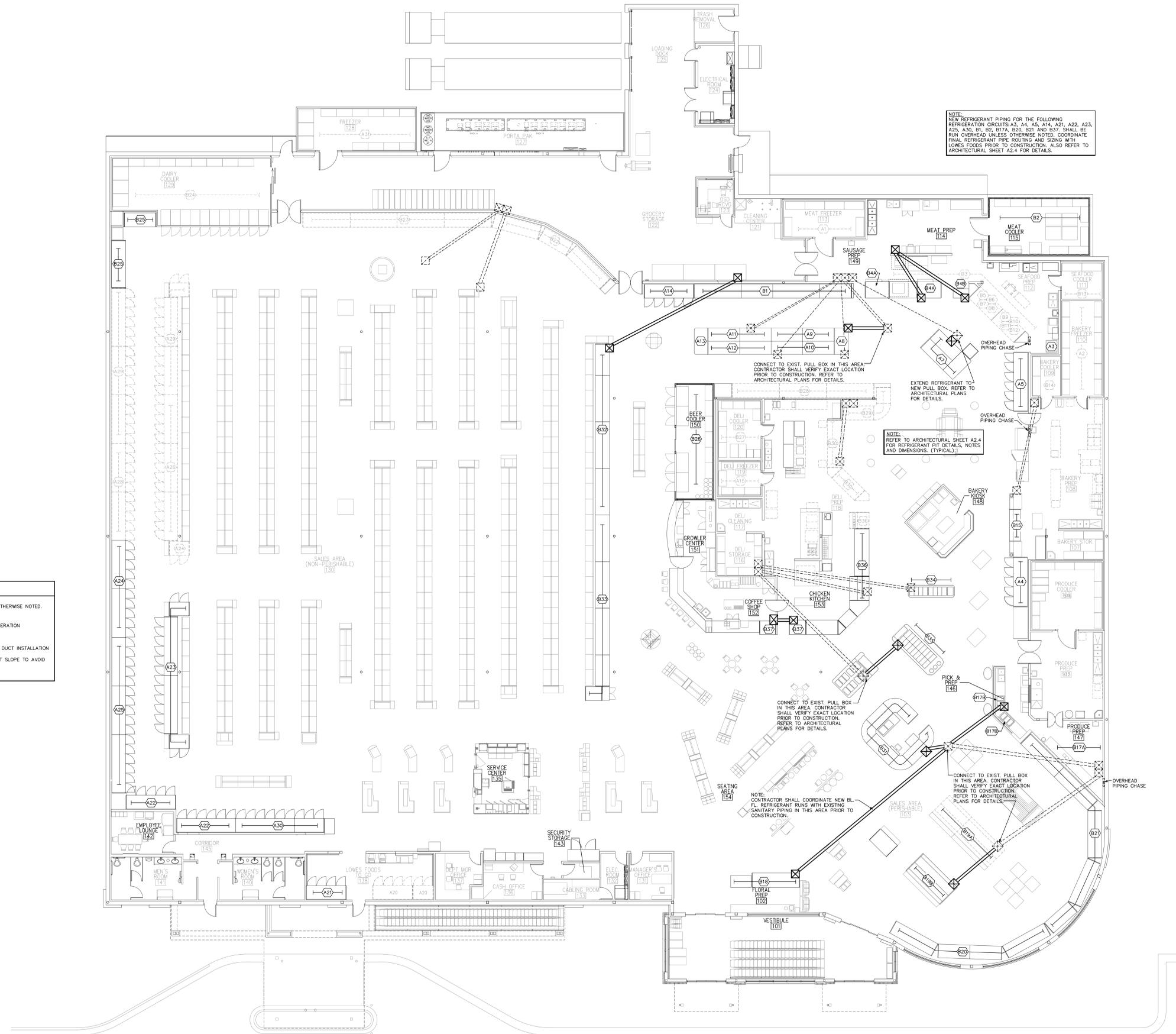
NOTE: THIS IS AN EXISTING FACILITY WHICH HAS EXISTING SANITARY AND WATER DISTRIBUTION SYSTEMS. ALTERATIONS TO EXISTING WORK BEING OF SUCH NATURE THAT ALL FACETS OF THE WORK ARE IMPOSSIBLE TO DETAIL AND SPECIFY. IT IS THEREFORE THE RESPONSIBILITY OF THE CONTRACTOR TO CAREFULLY EXAMINE THE EXISTING BUILDING AND FAMILIARIZE HIMSELF WITH THE CONDITIONS AND RELATE THESE CONDITIONS TO THE SCOPE OF THE PROPOSED NEW WORK. ALL BIDS ARE EXPECTED TO ENCOMPASS THE TOTAL WORK SCOPE NEEDED TO PLACE THE COMPLETED SYSTEM IN WORKING CONDITION.

**SPECIFIC PLUMBING NOTES**

- 1 CONNECT TO EXISTING C.W. PIPING ABOVE CEILING IN THIS AREA. CONTRACTOR SHALL VERIFY EXACT LOCATION PRIOR TO CONSTRUCTION.
- 2 CONNECT TO EXISTING H.W. PIPING ABOVE CEILING IN THIS AREA. CONTRACTOR SHALL VERIFY EXACT LOCATION PRIOR TO CONSTRUCTION.
- 3 EXIST. C.W. & H.W. PIPING SHALL BE CAPPED BELOW FLOOR. CONTRACTOR SHALL REPAIR EXISTING FLOOR SLAB AS REQUIRED. CONNECT NEW 1/2" C.W. & H.W. TO EXISTING IN THIS AREA. CONTRACTOR SHALL VERIFY EXACT LOCATION PRIOR TO CONSTRUCTION.
- 4 CONNECT TO EXISTING C.W. & H.W. BELOW FLOOR IN THIS AREA. CONTRACTOR SHALL VERIFY EXACT LOCATION PRIOR TO CONSTRUCTION.
- 5 EXISTING WATER PIPING SHALL BE CAPPED ABOVE CEILING AT THIS LOCATION. ALL PIPING BEYOND THIS POINT SHALL BE REMOVED. NO CAP IF NEW WATER PIPING IS CONNECTING AT THIS POINT.
- 6 HAND SINKS AND BAR SINK (UNLESS OTHERWISE NOTED) SHALL HAVE MIXING VALVES INSTALLED TO TEMPER HOT WATER. MIXING VALVE SHALL BE A "SPARCO" MODEL AM100C. INSTALL CHECK VALVES ON SUPPLY LINES TO MIXING VALVES. REFER TO MIXING VALVE DETAIL ON SHEET P-21.
- 7 WATER CONNECTION TO TEA AND COFFEE MACHINES SHALL HAVE A BACKFLOW PREVENTER. BACKFLOW PREVENTER SHALL BE A "WATTS" SD2 3/8". <http://media.wattwater.com/es-sd2.pdf>
- 8 WATER CONNECTION TO ICE MACHINE SHALL HAVE A BACKFLOW PREVENTER. BACKFLOW PREVENTER SHALL BE A "WATTS" SD2 3/8". <http://media.wattwater.com/es-sd2.pdf>
- 9 CONNECT TO EXISTING C.W. & H.W. PIPING IN WALL IN THIS AREA. CONTRACTOR SHALL VERIFY EXACT LOCATION PRIOR TO CONSTRUCTION.
- 10 HOSE BIBBS IN THIS AREA SHALL BE REMOVED. CONTRACTOR SHALL CAP EXISTING C.W. & H.W. IN WALL IN THIS AREA. REPAIR WALL AS REQUIRED.
- 11 C.W. & H.W. HOSE BIBBS BELOW SINK (2" A.F.F.) PROVIDE VACUUM BREAKER, CHECK VALVE AND BRANCH SHUT-OFF.
- 12 PROVIDE 1/2" C.W. LINE W/SHUT OFF VALVE UNDER PRODUCE ISLAND. STUB UP IN REFRIGERATION PIT.



(WATER PIPING)  
**1 FLOOR PLAN - PLUMBING**  
 SCALE: 3/32"=1'-0"

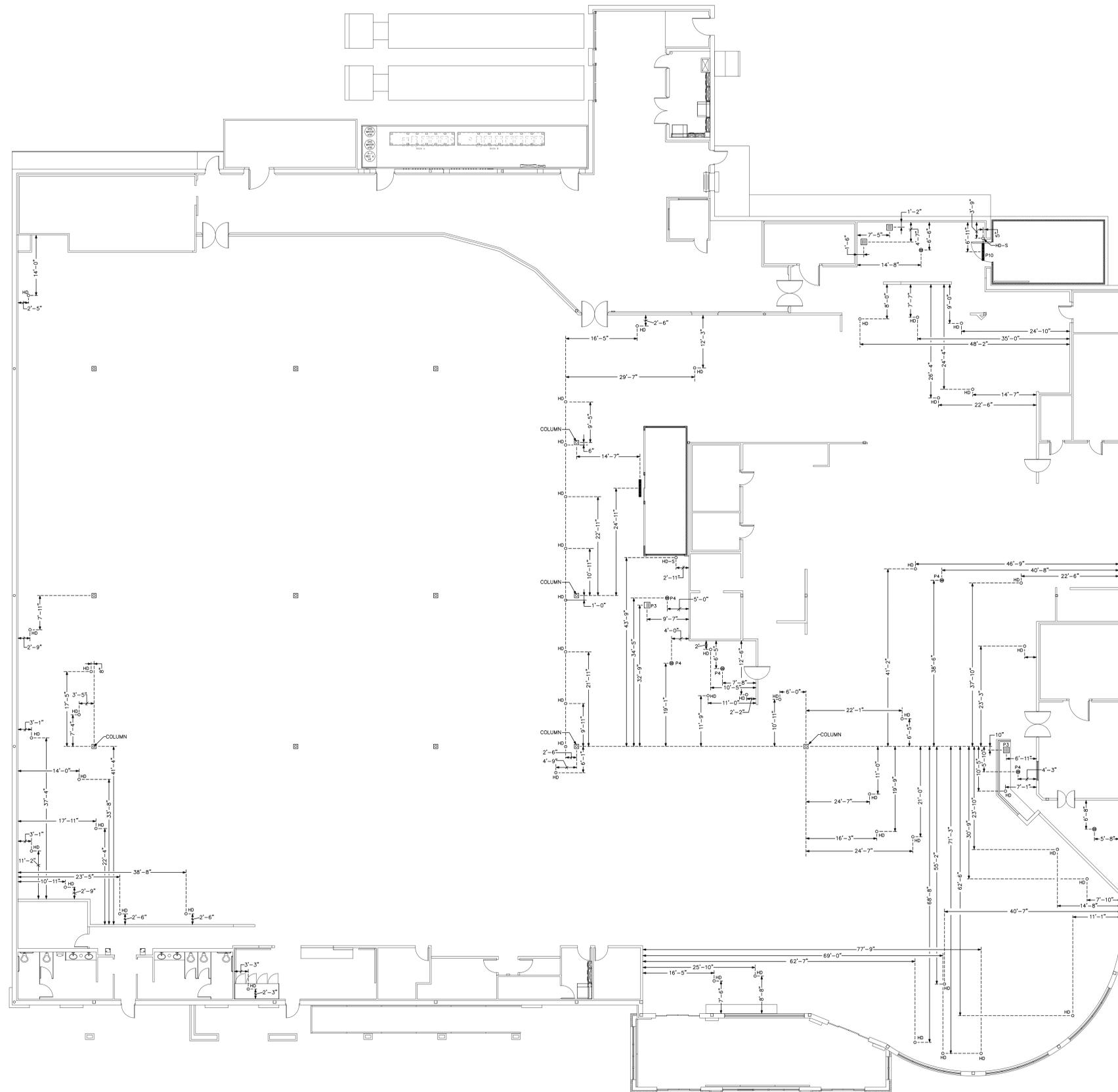


NOTE:  
NEW REFRIGERANT PIPING FOR THE FOLLOWING REFRIGERATION CIRCUITS: A3, A4, A5, A14, A21, A22, A23, A25, A26, B1, B2, B17A, B20, B21 AND B37. SHALL BE RUN OVERHEAD UNLESS OTHERWISE NOTED. COORDINATE FINAL REFRIGERANT PIPE ROUTING AND SIZING WITH LOWES FOODS PRIOR TO CONSTRUCTION. ALSO REFER TO ARCHITECTURAL SHEET A2.4 FOR DETAILS.

LEGEND	
	= 2'-0" X 2'-0" X 1'-8" DEEP REFRIGERATION PIT
	= EXISTING REFRIGERANT PIT TO REMAIN AND BE REUSED.
	= NEW 6" SCHED. 40 UNDER FLOOR CONDUIT FOR REFRIGERANT LINES. COORDINATE FINAL QUANTITY, SIZE AND LOCATION WITH LOWES FOODS PRIOR TO CONSTRUCTION.
	= EXISTING REFRIGERANT PIPING AND CONDUIT TO REMAIN.
	= NEW REFRIGERATION CIRCUIT.
	= EXIST. REFRIGERATION CIRCUIT TO REMAIN.

- REFRIGERATION NOTES**
1. ALL UNDER FLOOR DUCT FOR REFRIGERATION LINES SHALL BE SCHEDULE 40 PVC, 6" IN DIAMETER UNLESS OTHERWISE NOTED.
  2. REFRIGERATION LINES BY LOWES FOODS.
  3. SEE ARCHITECTURAL PLANS FOR DIMENSIONS TO REFRIGERANT PITS.
  4. CONTRACTOR SHALL TAKE EXTREME CARE TO ENSURE DUCTS SLOPE FROM 2' X 2' PIT DOWN TO THE REFRIGERATION PIPING ACCESS AREA. SLOPE SHALL BE A MINIMUM OF 1/8" PER FOOT.
  5. SWEEP-UP 6" PVC AT 45 DEGREE ANGLE. REFER TO DETAIL ON THIS SHEET.
  6. INSTALLATION OF UNDER FLOOR DUCT IS BY PLUMBING CONTRACTOR. COORDINATE DUCT INSTALLATION WITH GENERAL CONTRACTOR.
  7. INSTALLATION OF REFRIGERATION PITS BY ANOTHER CONTRACTOR, NOT PLUMBING CONTRACTOR. COORDINATE DUCT INSTALLATION WITH GENERAL CONTRACTOR.
  8. AVOID INTERFERENCE WITH FOOTINGS AND COLUMNS WITH UNDERGROUND DUCT. MODIFY UNDER FLOOR DUCT SLOPE TO AVOID ROUTING IN FOOTER AS NECESSARY.
  9. SEAL OPEN END OF 6" PVC TO PREVENT SAND FROM ENTERING CONDUIT IN ALL ACCESS PITS.

**1 REFRIGERATION PIT PIPING PLAN - PLUMBING**  
SCALE: 3/32"=1'-0"



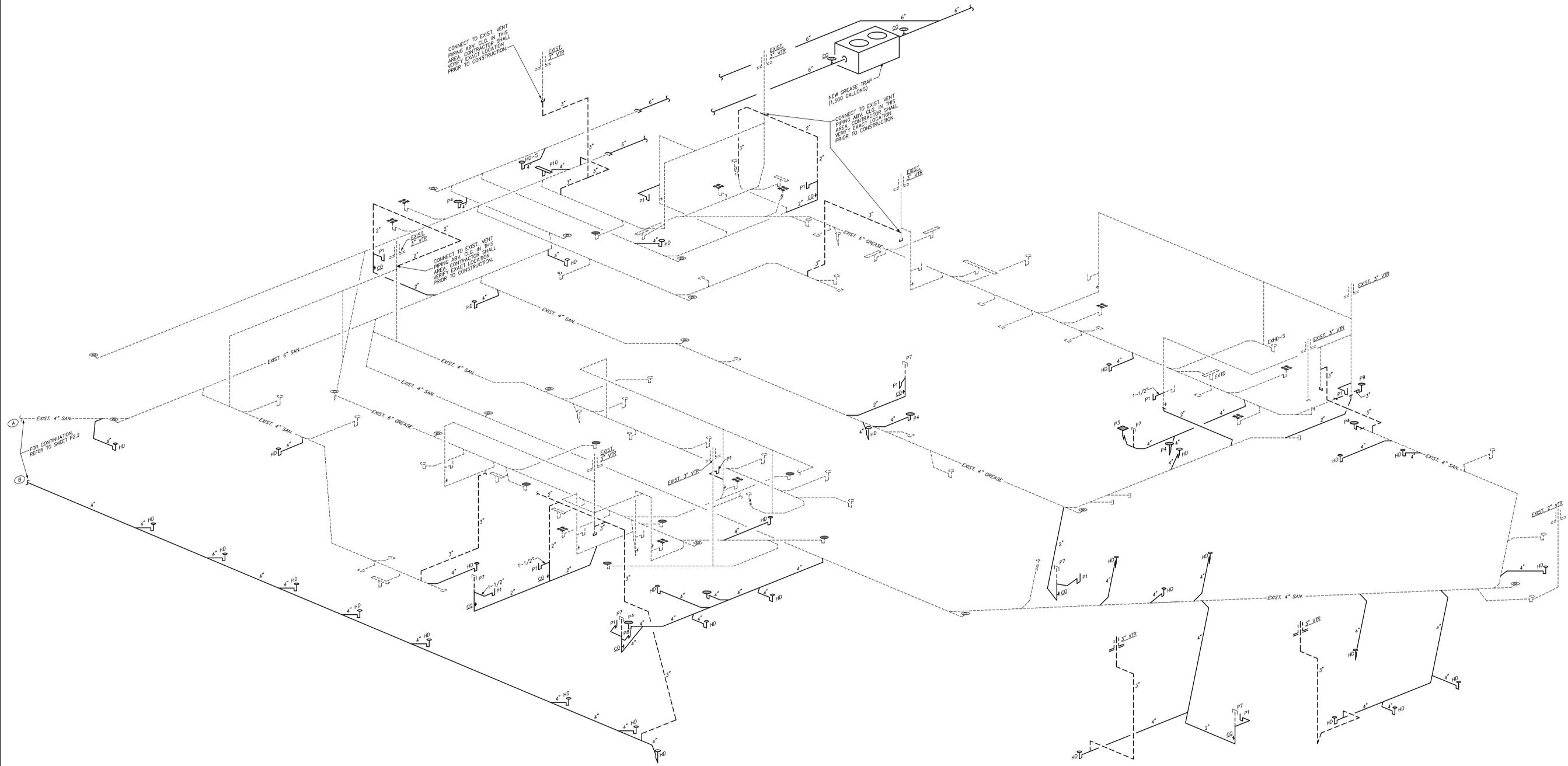
PLUMBING SYMBOLS LEGEND	
○ HD	HUB DRAIN (NEW)
○ HD-S	HUB DRAIN (NEW)
● P4	FLOOR DRAIN (NEW)
■ P3	FLOOR SINK (NEW)
▬ P10	TRENCH DRAIN (PREP AREA)
▬ P11	TRENCH DRAIN (NON-PREP AREA)

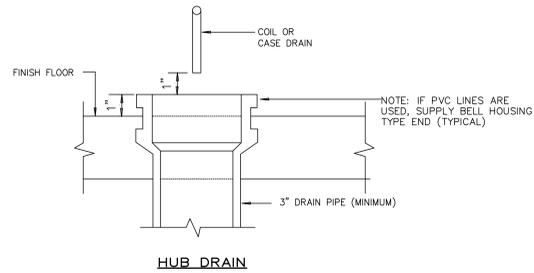
**1** DIMENSION PLAN - PLUMBING  
SCALE: 3/32"=1'-0"

PLUMBING FIXTURE SCHEDULE

SYM.	FIXTURE	CW	HW	DRAIN	STOPS & VALVES	MANUF.	MODEL	REMARKS	ACCEPTABLE ALTERNATIVE MANUFACTURERS, SEE NOTE 6
P-1	HAND SINK STAINLESS STEEL	1/2"	1/2"	1-1/4"	1/2"x3/8" ANGLE	-	-	SINK AND FAUCET SUPPLIED BY LOWES FOODS. PLUMBER SHALL INCLUDE ALL EQUIPMENT REQUIRED FOR A COMPLETE INSTALLATION THAT DOES NOT COME WITH SINK. PROVIDE MIXING VALVE. REFER TO MIXING VALVE DETAIL ON THIS SHEET.	-
P-2	FINISHED FLOOR CLEANOUT (FOOT TRAFFIC AREAS)	-	-	4"	-	SIoux CHEF	834-4PNR	COMPLETE ASSEMBLY WITH PVC BASE AND NICKEL BRONZE TOP.	NO ALTERATIONS
P-3	FLOOR SINK	-	-	3"	-	MIFAB	F51720-150-5	HALF TOP GRATE. 12" X 12" TOP AND SEDIMENT BUCKET.	-
P-4	FLOOR DRAIN (USED IN AREAS THAT ARE WASHED DOWN)	-	-	3"	-	MIFAB	F1000-R8	NICKEL BRONZE, DEEP SEAL TRAP.	-
P-5	2 COMP. PREP SINK STAINLESS STEEL	1/2"	1/2"	1-1/4"	1/2"x3/8" ANGLE	-	-	SINK AND FAUCET SUPPLIED BY LOWES FOODS. PLUMBER SHALL INCLUDE ALL EQUIPMENT REQUIRED FOR A COMPLETE INSTALLATION THAT DOES NOT COME WITH SINK.	NO ALTERATIONS
P-6	STUDOR VENT	-	-	2"	-	IPS CORP.	MINI-VENT	* <a href="http://www.ipscorp.com/plumbing/studor/minivent">http://www.ipscorp.com/plumbing/studor/minivent</a>	-
P-7	STUDOR VENT	-	-	3"	-	IPS CORP.	MAXI-VENT	* <a href="http://www.ipscorp.com/plumbing/studor/maxivent">http://www.ipscorp.com/plumbing/studor/maxivent</a>	-
P-8	1 COMP. PREP SINK STAINLESS STEEL	1/2"	1/2"	1-1/4"	1/2"x3/8" ANGLE	-	-	SINK AND FAUCET SUPPLIED BY LOWES FOODS. PLUMBER SHALL INCLUDE ALL EQUIPMENT REQUIRED FOR A COMPLETE INSTALLATION THAT DOES NOT COME WITH SINK.	NO ALTERATIONS
P-9	MOP SINK	3/4"	3/4"	3"	-	RAT	MBB2424	FAUCET: 830AA W/VACUUM BREAKER. HOSE: 832-AA. MOP HANGER: 889-CC. STRAINER: E72-00. SEE NOTE 5.	CRANE KOHLER EL-ER
P-10	TRENCH DRAIN (PREP AREAS)	-	-	4"	-	ADC	K100-425/426	DEEP SEAL TRAP SLOTTED LOAD CLASS "C" GALVANIZED STEEL GRATE.	NO ALTERATIONS
P-11	TRENCH DRAIN (NON-PREP AREAS)	-	-	4"	-	ADC	K1005-461	-	NO ALTERATIONS
P-12	3 COMP. SINK STAINLESS STEEL	1/2"	1/2"	1-1/4"	1/2"x3/8" ANGLE	-	-	SINK AND FAUCET SUPPLIED BY LOWES FOODS. PLUMBER SHALL INCLUDE ALL EQUIPMENT REQUIRED FOR A COMPLETE INSTALLATION THAT DOES NOT COME WITH SINK.	AMERICAN STANDARD KOHLER
P-13	INTERIOR HOSE BIBB	1/2"	-	-	-	BALL	MHY-90	CAST IRON OPERATING HANDLE. INCLUDE VACUUM BREAKER.	-
P-14	TANKLESS ELECTRIC WATER HEATER	1/2"	-	-	-	CHRONOMITE	SR-15L/277	4.1 KW TANKLESS WATER HEATER @ 277V/1A, 15 AMPS.	-

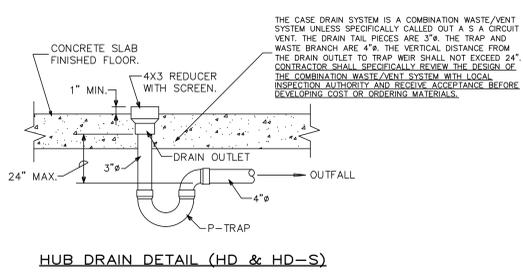
- NOTES:
- MATERIAL AND INSTALLATION SHALL BE PER STATE HANDICAP CODE REQUIREMENTS AND ADA REQUIREMENTS.
  - TOILETS SHALL FLUSH ON A MAXIMUM OF 1.28 GALLONS PER FLUSH.
  - LAVATORIES SHALL HAVE .5 GPM FLOW AERATORS.
  - INDICATED FLOOR DRAINS SHALL BE PRIMED WITH 1/2" COPPER LINE FROM NEARBY CLEAR WATER FIXTURE (LAVATORY). TAP CLEAR WATER FIXTURE. TAIL PIECE WITH WATER SAVED TRAP PRIMER AND ROUTE COPPER SUPPLY LINE UNDER SLAB TO DRAIN PRIMER CONNECTION. WATER SERVER TRAP PRIMER SHALL BE ACCESSIBLE AND CODE APPROVED. IF A CLEAR WATER FIXTURE SUCH AS A LAVATORY IS NOT AVAILABLE, TAP NEARBY COLD WATER LINE AND ROUTE 1/2" PRIMER LINE THROUGH PRIMER VALVE CODE APPROVED FOR WASTE/WATER CROSS CONNECTION. VALVE SHALL BE ACCESSIBLE AND INSTALLED ON WALL ABOVE FLOOR SINK OF CLOSEST PREP SINK.
  - INSTALL CHECK VALVE ON COLD AND HOT WATER SUPPLY LINES SERVING MOP SINK AND CLEANING CENTER.
  - FIXTURES BY ALTERNATE MANUFACTURERS MUST BE APPROVED BY LOWES FOODS ENGINEERING PRIOR TO PURCHASE.





HUB DRAIN

**2 HUB DRAIN DETAILS**  
NO SCALE

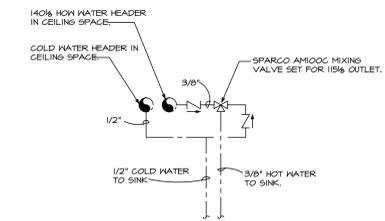


HUB DRAIN DETAIL (HD & HD-S)

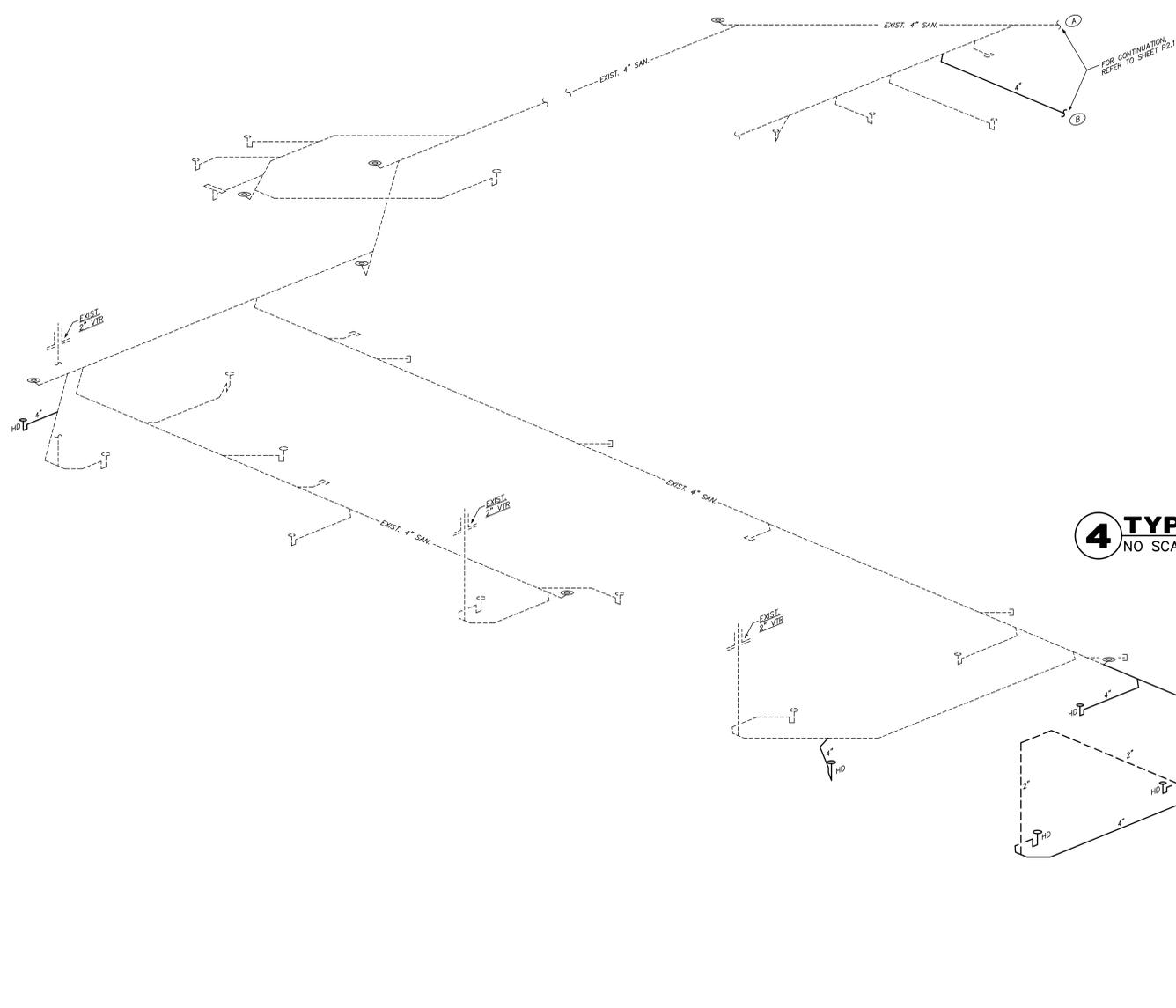
THE CASE DRAIN SYSTEM IS A COMBINATION WASTE/VENT SYSTEM UNLESS SPECIFICALLY CALLED OUT AS A CIRCUIT VENT. THE DRAIN TAIL PIECES ARE 3/4" THE TRAP AND WASTE BRANCH ARE 4". THE VERTICAL DISTANCE FROM THE DRAIN OUTLET TO TRAP NEAR SHALL NOT EXCEED 24". CONTRACTOR SHALL SPECIFICALLY REVIEW THE DESIGN OF THE COMBINATION WASTE/VENT SYSTEM WITH LOCAL INSPECTION AUTHORITY AND RECEIVE ACCEPTANCE BEFORE DEVELOPING COST OR ORDERING MATERIALS.

NOTE: IF PVC LINES ARE USED, SUPPLY BELL HOUSING TYPE END (TYPICAL)

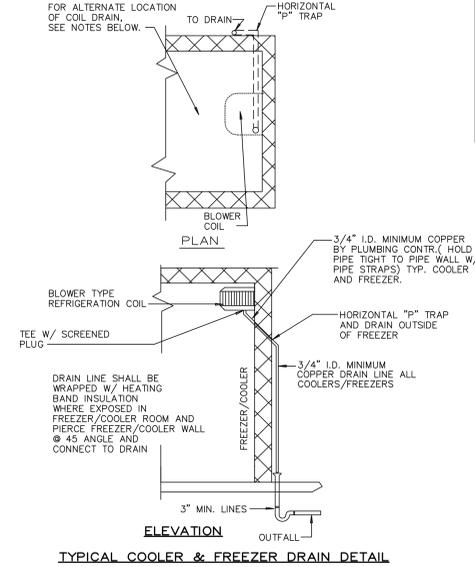
**3 MIXING VALVE FOR HAND SINKS AND LAV'S DETAIL**  
NO SCALE



- GENERAL PLUMBING NOTES**
- 1) DRAWINGS ARE DIAGNOSTIC AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATION OF ALL PLUMBING FIXTURES, EQUIPMENT, ETC. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL ALL ITEMS REQUIRED FOR A COMPLETE AND ACCEPTABLE WORKING INSTALLATION. CONTRACTOR IS RESPONSIBLE TO INSTALL ALL FIXTURES AND EQUIPMENT IN STRICT COMPLIANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. THIS REQUIREMENT IS TO SUPERSEDE ANY DETAILS OR INFORMATION CONTAINED ON THESE DRAWINGS.
  - 2) ALL WORK AND MATERIALS SHALL COMPLY WITH THE LATEST EDITION OF THE NATIONAL, STATE, AND ALL LOCAL CODES AND ORDINANCES HAVING JURISDICTION.
  - 3) THE PLUMBING CONTRACTOR SHALL VISIT THE SITE AND THOROUGHLY FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS. ALL EXECUTION AND BACKFILL AS REQUIRED FOR THIS PHASE OF CONSTRUCTION SHALL BE A PART OF THIS CONTRACT.
  - 4) ALL MATERIAL SHALL BE NEW.
  - 5) ALL WORK SHALL BE PERFORMED BY A LICENSED PLUMBING CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE AND ACCEPTED BY ENGINEER/ARCHITECT.
  - 6) ALL REQUIRED INSURANCE SHALL BE PROVIDED FOR PROTECTION AGAINST PUBLIC LIABILITY OR PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
  - 7) THE PLUMBING CONTRACTOR SHALL SECURE AND PAY ALL PERMIT FEES, INSPECTIONS, AND TESTS.
  - 8) ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.
  - 9) THE PLUMBING CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN (1) ONE YEAR FROM DATE OF ACCEPTANCE. CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THEREBY.
  - 10) VERIFY LOCATION, SIZE AND INVERTS OF ALL EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION. ADVISE ARCHITECT/ENGINEER OF ANY DISCREPANCIES.
  - 11) ALL FIXTURES SHALL BE PROVIDED WITH READILY ACCESSIBLE STOPS.
  - 12) WATER PIPING SHALL BE TYPE "L" COPPER FOR UP TO AND INCLUDING 2" AND SHALL BE TYPE "K" FOR 2 1/2" AND LARGER.
  - 13) SOIL WASTES AND VENT PIPING SHALL BE PVC #40 DMV. WASTE AND VENT PIPING ABOVE SLAB SHALL BE PVC, IF APPROVED BY LOCAL AUTHORITIES HAVING JURISDICTION. OTHERWISE CAST IRON. PVC SHALL NOT BE INSTALLED IN A/C RETURN AIR PLENUM OR PENETRATE FIRE RATED WALLS OR FLOORS.
  - 14) AIR CONDITIONING CONDENSATE DRAIN PIPING SHALL BE PVC #40 OR COPPER DRAIN WASTE AND BENT PIPE AND FITTINGS. INSULATE ALL CONDENSATE PIPING EXCEPT EXTERIOR PIPING. INSTALL ALL CONDENSATE PIPING FOR AIR CONDITIONING UNITS AS REQUIRED PER LOCAL CODES.
  - 15) FURNISH AND INSTALL APPROVED WATER HAMMER ARRESTORS AT EACH GROUP OF FIXTURES. INSTALLATION OF WATER HAMMER ARRESTORS SHALL CONFORM TO THE MANUFACTURER'S RECOMMENDATIONS. PROVIDE AND INSTALL AN APPROVED WATER HAMMER ARRESTOR AT EACH FIXTURE OR DEVICE THAT HAS A SOLENOID WATER CONTROL VALVE.
  - 16) PROVIDE CHROME PLATED COMBINATION COVERED PLATE AND CLEANOUT PLUG FOR ALL WALL CLEANOUTS. JOSAM 58890.
  - 17) INSULATE LINES AS FOLLOWS:
    - A) 1" THICK ARMAFLEX PREFORMED INSULATION SHALL BE PROVIDED ON BOTH C.W. & H.W. WHEN PIPING IS LOCATED OUTSIDE OF THE INSULATED BUILDING ENVELOPE.
    - B) 1/2" THICK ARMAFLEX PREFORMED INSULATION SHALL BE PROVIDED ON H.W. PIPING & H.W. RECIRC. PIPING, ONLY WHEN THERE IS A H.W. RECIRCULATING PIPING SYSTEM.



**1 PARTIAL SANITARY ISOMETRIC**  
NO SCALE



- NOTES:**
1. SLOPE FLOOR FROM INSIDE COOLER WALLS TO FLOOR DRAINS OUTSIDE COOLERS.
  2. SEE PLUMBING PLAN FOR NUMBER AND LOCATION OF BLOWER TYPE REFRIGERATION COILS. REFRIGERATION COILS ARE FURNISHED AND INSTALLED BY REFRIGERATION CONTRACTOR. REFRIGERATION CONTRACTOR SHALL MAKE ALL PLUMBING CONNECTIONS.
  3. CONDENSATE DRAINS FOR FREEZERS SHALL BE LOCATED OUTSIDE FREEZER.

**4 TYP. COOLER & FREEZER DRAIN DETAIL**  
NO SCALE