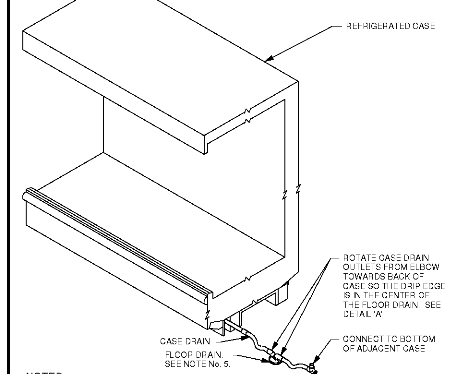
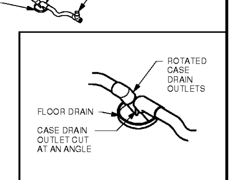


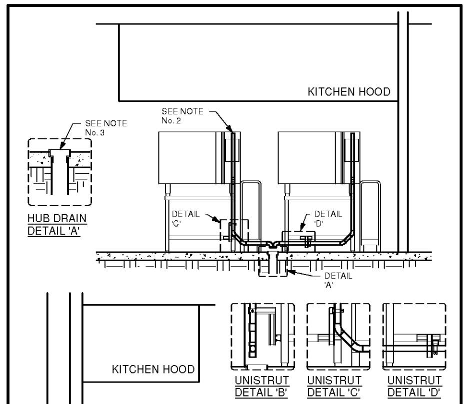
NOTES:

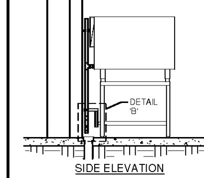
1. DO NOT USE CASE DRAIN SMALLER THAN THE NOMINAL DIAMETER OF PIPE OR WATER SEAL SUPPLIED WITH THE MERCHANDISER.
2. SLOPE THE CASE DRAIN IN THE DIRECTION OF FLOW 1/4" PER FT.
3. CASE DRAIN MUST BE SUPPORTED NO MORE THAN 24" FROM DRAIN HUB TEE.
4. PROVIDE A SUITABLE AIR BREAK BETWEEN FLOOD RIM OF FLOOR DRAIN AND OUTLET OF CASE DRAIN. AN ALTERNATIVE IS TO CUT THE LAST SECTION OF CASE DRAIN AT AN ANGLE.
5. 3" HUB DRAIN FOR PROJECTS UNDER UNIFORM PLUMBING CODE AND 4" HUB DRAIN FOR PROJECTS UNDER INTERNATIONAL PLUMBING CODE.



CASE DRAIN DETAIL	DATE: 10/11/12
	DRAWN: ZAW
MASTER INSTALLATION DETAIL	PISD-1

ORIGINAL ISSUE DATE 10/11/12



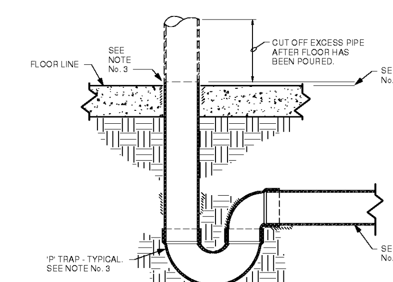


GENERAL NOTES:

1. CONNECT THE 1-1/2" COPPER DRAIN LINE TO THE OVEN WITH A "NO HUB" COUPLING. SUPPLIED WITH OVEN.
2. DRAIN VENT PIPE MUST BE ABOVE THE OVEN EXHAUST VENT OPENING.
3. CAST IRON HUB DRAIN OR FLOOR SINK WHERE REQUIRED BY CODE, WITH 1" AIR GAP.
4. SUPPORT DRAIN LINE WITH PIPE CLAMPED TO UNISTRUT SECURED TO OVEN STAND. SIMILAR TO ABOVE DETAILS.
5. REFER TO OVEN INSTALLATION MANUAL WHEN DOUBLE STACKING OVENS AND PROJECT SPECIFICATION SECTION 11 41 33 FIXTURE AND EQUIPMENT PLUMBING CONNECTIONS.
6. REFER TO COOPER B-LINE STRUT SYSTEMS CATALOG.

DRAIN LINES FOR ALTO SHAAM COMBI OVEN	DATE: 1/29/16
	DRAWN: TMW/ZAW
MASTER INSTALLATION DETAIL	PISD-2

ORIGINAL ISSUE DATE 11/18/15



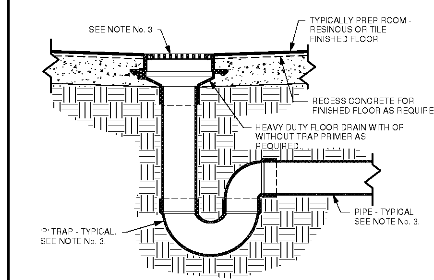
GENERAL NOTES:

1. SLOPE FLOOR TO FLOOR DRAIN AS INDICATED ON CONCRETE PLACEMENT PLAN.
2. REFER TO BUILDING SPECIFICATION SECTION 22 13 00 FOR APPROVED PIPING MATERIAL.
3. REFER TO PLUMBING PLAN FOR LOCATIONS AND SIZES OF DRAINS AND PIPING.
4. TYPICALLY 1" BUT PREFERABLY 1/2" IF PERMITTED BY LOCAL PLUMBING INSPECTOR TO FACILITATE CONDENSATE DRAIN INSTALLATION.

CONDENSATE DRAIN DETAIL	DATE: 11/15/17
	DRAWN: ZAW
MASTER SPECIFICATION DETAIL	PSD-1

ORIGINAL ISSUE DATE: 2/20/06

Notice:
FLOOR SLOPE AT 1/8" PER FOOT



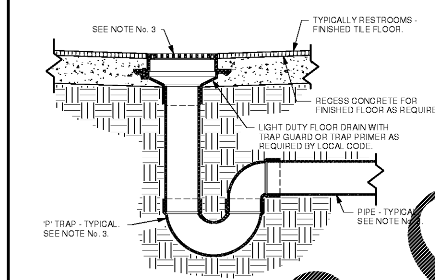
GENERAL NOTES:

1. SLOPE FLOOR TO FLOOR DRAIN AS INDICATED ON CONCRETE PLACEMENT PLAN.
2. FD2, STAINLESS STEEL GRATE. REFER TO BUILDING SPECIFICATION SECTION 22 13 00 FOR APPROVED PIPING MATERIAL.
3. REFER TO PLUMBING PLAN FOR LOCATIONS AND SIZES OF DRAIN AND PIPING.

HEAVY DUTY FLOOR DRAIN DETAIL FOR FINISHED FLOORS	DATE: 3/13/12
	DRAWN: ZAW
MASTER SPECIFICATION DETAIL	PSD-2

ORIGINAL ISSUE DATE 8/9/10

Notice:
FLOOR SLOPE AT 1/8" PER FOOT



GENERAL NOTES:

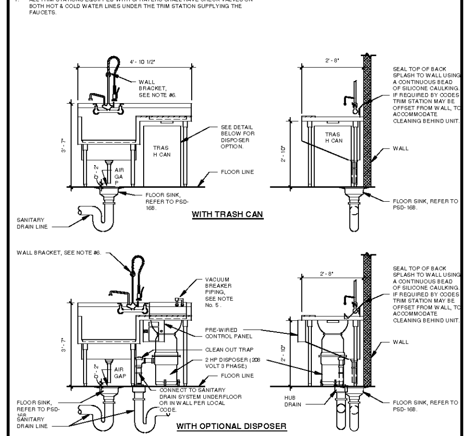
1. SLOPE FLOOR TO FLOOR DRAIN AS INDICATED ON CONCRETE PLACEMENT PLAN.
2. FD1 OR FD1M NICKEL BRONZE GRATE. REFER TO BUILDING SPECIFICATION SECTION 22 13 00 FOR APPROVED PIPING MATERIAL.
3. REFER TO PLUMBING PLAN FOR LOCATIONS AND SIZES OF DRAIN AND PIPING.

LIGHT DUTY FLOOR DRAIN DETAIL FOR FINISHED FLOORS	DATE: 11/15/17
	DRAWN: ZAW
MASTER SPECIFICATION DETAIL	PSD-3

ORIGINAL ISSUE DATE 2/20/06

NOTES:

1. PRODUCE TRIM STATION SHALL BE PRE-PLUMED AND WIRED WHEN EQUIPPED WITH DISPOSER UNIT. UNIT TO BE FURNISHED BY KROGER AND INSTALLED BY
2. FOR DRAIN LINES REFER TO BUILDING SPECIFICATION SECTION 22 13 00 FOR APPROVED PIPING MATERIAL.
3. FINAL PLUMBING & ELECTRICAL CONNECTIONS SHALL BE MADE BY THE PLUMBING CONTRACTOR & THE ELECTRICAL CONTRACTOR.
4. SEE PLUMBING PLAN FOR LOCATIONS AND SIZES OF DRAINS.
5. PROVIDE A COLD WATER SUPPLY LINE -- 3/4" MINIMUM.
6. WHEN SINK IS INSTALLED ON PREFABRICATED INSULATED WALL PANELS SPRAYER BRACKET MUST BE ATTACHED TO 30" HIGH WOOD BLOCKING PROVIDED INSIDE PANEL, CENTERED APPROXIMATELY 54" AFF, TAP ON PANEL TO VERIFY LOCATION. WHEN SINK IS INSTALLED ON STUD PARTITION, ROUTE PIPING & PROVIDE BLOCKING INSIDE PARTITION FOR SECURE ATTACHMENT OF
7. ALL TRIM STATIONS EQUIPPED WITH SPRAYERS SHALL HAVE CHECK VALVES ON BOTH HOT & COLD WATER LINES UNDER THE TRIM STATION SUPPLYING THE FAUCETS.

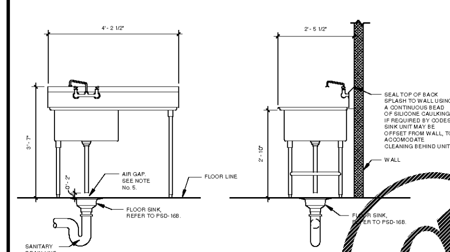


PRODUCE TRIM STATION	DATE: 6/15/16
	DRAWN: ZAW
MASTER SPECIFICATION DETAIL	PSD-5

ORIGINAL ISSUE DATE 2/20/06

NOTES:

1. UNIT TO BE FURNISHED BY KROGER AND INSTALLED BY CONTRACTOR. SEE SPECS.
2. FOR DRAIN LINES REFER TO BUILDING SPECIFICATION SECTION 22 13 00 FOR APPROVED PIPING MATERIAL.
3. FINAL PLUMBING CONNECTIONS SHALL BE MADE BY THE PLUMBING CONTRACTOR.
4. SEE PLUMBING PLAN FOR LOCATIONS AND SIZES OF DRAINS.
5. 2" MINIMUM AIR GAP OR GREATER WHEN REQUIRED BY LOCAL PLUMBING CODE OR LOCAL HEALTH REGULATIONS.

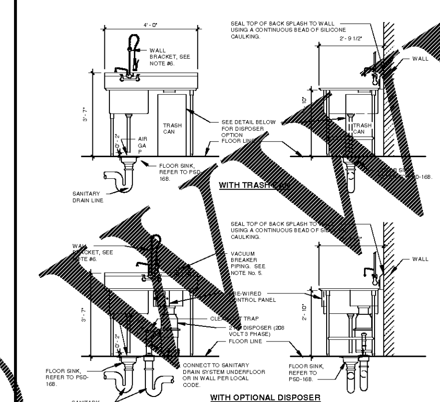


1-COMPARTMENT SINK	DATE: 11/15/17
	DRAWN: ZAW
MASTER SPECIFICATION DETAIL	PSD-5A

ORIGINAL ISSUE DATE 2/20/06

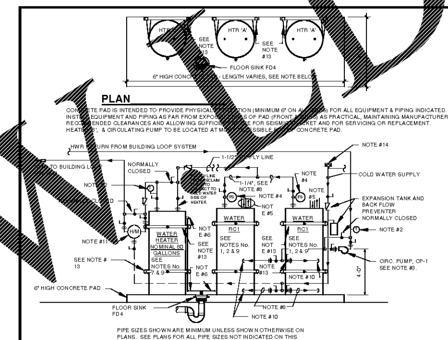
NOTES:

1. SEAFOOD PREP SINK SHALL BE PRE-PLUMBED AND WIRED WHEN EQUIPPED WITH DISPOSER UNIT. UNIT TO BE FURNISHED BY KROGER AND INSTALLED BY CONTRACTOR.
2. FOR DRAIN LINES REFER TO BUILDING SPECIFICATION SECTION 22 13 00 FOR APPROVED PIPING MATERIAL.
3. FINAL PLUMBING & ELECTRICAL CONNECTIONS SHALL BE MADE BY THE PLUMBING CONTRACTOR & THE ELECTRICAL CONTRACTOR.
4. SEE PLUMBING PLAN FOR LOCATIONS AND SIZES OF DRAINS.
5. PROVIDE A COLD WATER SUPPLY LINE -- 3/4" MINIMUM.
6. WHEN SINK IS INSTALLED ON PREFABRICATED INSULATED WALL PANELS SPRAYER BRACKET MUST BE ATTACHED TO 30" HIGH WOOD BLOCKING PROVIDED INSIDE PANEL, CENTERED APPROXIMATELY 54" AFF, TAP ON PANEL TO VERIFY LOCATION. WHEN SINK IS INSTALLED ON STUD PARTITION, ROUTE PIPING & PROVIDE BLOCKING INSIDE PARTITION FOR SECURE ATTACHMENT OF SPRAYER WALL BRACKET.
7. ALL SINKS EQUIPPED WITH SPRAYERS SHALL HAVE CHECK VALVES ON BOTH HOT & COLD WATER LINES UNDER THE SINKS SUPPLYING THE FAUCETS.



SEAFOOD PREP SINK	DATE: 10/11/12
	DRAWN: ZAW
MASTER SPECIFICATION DETAIL	PSD-5S

ORIGINAL ISSUE DATE 2/20/06



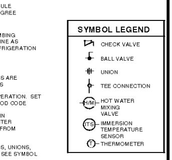
CONCRETE PAD IS INTENDED TO PROVIDE PHYSICAL PROTECTION (MINIMUM 6" ON ALL SIDES) FOR ALL EQUIPMENT & PIPING INDICATED. INSTALL EQUIPMENT AND PIPING AS FAR FROM EXPOSED EDGES OF PAD (FRONT, SIDES) AS PRACTICAL, MAINTAINING MANUFACTURER'S RECOMMENDED CLEARANCES AND ALLOWING SUFFICIENT SPACE FOR SEISMIC BRACKET AND FOR SERVICING OR REPLACEMENT. HEATER 'B', & CIRCULATING PUMP TO BE LOCATED AT MOST ACCESSIBLE SIDE OF CONCRETE PAD.

PIPE SIZES SHOWN ARE MINIMUM UNLESS SHOWN OTHERWISE ON PLANS. SEE PLANS FOR ALL PIPE SIZES NOT INDICATED ON THIS DETAIL.

NOTES:

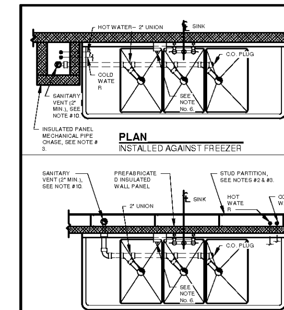
1. RC1 RECLAIMED HEAT TANK TYPE UNIT(S), SEE WATER HEATER SCHEDULE ON PLANS. NOMINAL 119 GALLON GLASS LINED STORAGE CAPACITY. UNIT SHALL BE AS FOLLOWS:
   CONVENTIONAL SYSTEM --- (TWO CIRCUITS)
   PARALLEL RACK --- (ONE CIRCUIT)
   PROTOCOL --- (ONE CIRCUIT) OR (TWO CIRCUIT HI-FLOW) PER REFRIGERATION SCHEDULE
2. THERMOMETER TO BE LIQUID FILLED WITH 2 DEGREE SCALE DIVISIONS, 40 DEGREE - 240 DEGREE F RANGE, INSTALLED IN THREADED WELL IN WATER LINE
3. CIRCULATING PUMP CP-1, SEE SPECS.
4. IMMERSION TEMPERATURE SENSOR. DIRECT BUY - KROGER SUPPLIED, INSTALLED BY PLUMBING CONTRACTOR, IN THREADED TEE IN RECLAIMED HEATER WATER HOT WATER DISCHARGE LINE AS INDICATED. CONTROLS CONTRACTOR TO WIRE IMMERSION TEMPERATURE SENSOR TO REFRIGERATION CONTROLLER.
5. REFRIGERATION PIPING SHALL BE BY REFRIGERATION PIPING CONTRACTOR.
6. ROUTE DRAIN LINES FROM PRESSURE/TEMPERATURE RELIEF VALVES TO DRAIN, TYPICAL.
7. WATER HEATER INDICATED 'B' --- SEE WATER HEATER SCHEDULE ON PLANS.
8. LENGTH OF PIPE FROM SUPPLY "TEE" AND OUTLET "TEE" TO CONNECTIONS ON THE HEATERS ARE TO BE EQUAL FOR BOTH RECLAIM TANKS. INSTALL RECLAIM TANKS AS CLOSE TOGETHER AS PRACTICAL.
9. SET WATER HEATER AND RC1'S TO SUPPLY **110 DEGREE** F WATER, DURING PEAK STORE OPERATION. SET BACK TO 100 DEGREE F UPON COMPLETION OF PREP AREA WASHDOWN. CURRENT FDA FOOD CODE STATES THAT WATER MUST BE A MINIMUM 100 DEGREES F AT POINT OF DELIVERY.
10. COLD WATER MUST ENTER HEAT RECLAIM WATER HEATER(S) FIRST, AT BOTTOM, TO OBTAIN MAXIMUM EFFICIENCY FROM RECLAIM WATER HEATER(S). LOOP SYSTEM RETURN MUST ENTER HEAT RECLAIM WATER HEATER MID-TANK CONNECTIONS TO OBTAIN MAXIMUM EFFICIENCY FROM RECLAIM WATER HEATER(S).
11. PROVIDE MIXING VALVE, SET AT 115 DEGREE F, FOR SAFETY IN CASE THERMOSTAT FAILS.
12. PLUMBING CONTRACTOR TO PROVIDE AND INSTALL ALL INDICATED VALVES, THERMOMETERS, UNIONS, FITTINGS, RECIRCULATING PUMP, EXPANSION TANK AND MIXING VALVE (WHEN REQUIRED). SEE SYMBOL LEGEND.
13. CONTRACTOR TO PROVIDE AND INSTALL SEISMIC BRACKETS FOR WATER HEATERS IN SEISMIC AREAS D, E & F. SEISMIC BRACKETS SHOWN GRAPHICALLY, INSTALL PER MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR TO PROVIDE BLOCKING IN STUD WALLS FOR SECURE ATTACHMENT.
14. PROVIDE AND INSTALL VACUUM RELIEF VALVE, SIZE DETERMINED BY WATER LINE SIZE.

SYMBOL LEGEND



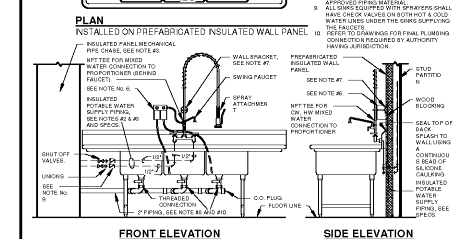
RECIRCULATING HOT WATER PIPING SCHEMATIC FOR RECLAIM HEAT TANK(S) APPLICATIONS	DATE: 9/10/15
	DRAWN: ZAW
MASTER SPECIFICATION DETAIL	PSD-6R

ORIGINAL ISSUE DATE 2/20/06



NOTES:

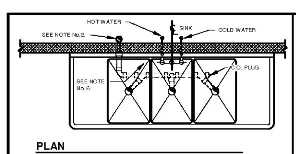
1. KROGER WILL FURNISH THE SINK, MIXING FAUCETS, 2" LEVER DRAINS, AND SPRAY ATTACHMENT & WALL BRACKET, AND (WHEN REQUIRED) THE HEATER AND DISPOSER. CONTRACTOR TO INSTALL SINK COMPLETE.
2. CONTRACTOR SHALL MAKE EVERY EFFORT TO INSTALL WATER SUPPLY PIPING AND SANITARY VENT PIPING ON OTHER SIDE (WARM SIDE) OF PREFABRICATED INSULATED WALL PANELS FORMING REFRIGERATED MEAT AND PRODUCE PREP AREAS, VIA STUD PARTITION CAVITY AS INDICATED. LENGTH OF PIPING ROUTED WITHIN THESE AREAS SHALL BE KEPT TO A MINIMUM.
3. IF WATER SUPPLY PIPING AND SANITARY VENT PIPING MUST BE ROUTED EXPOSED WITHIN THESE AREAS, PIPES SHALL BE ROUTED UNDER SINK AND SECURED TO WALL WITH PIPE CLAMPS PROVIDING SPACE BETWEEN PIPES AND WALL TO MEET HEALTH DEPARTMENT REQUIREMENTS. PHYSICAL PROTECTION MUST BE PROVIDED, VIA PIPE CHASE AS INDICTED.
4. PIPING WILL NOT BE PERMITTED IN COOLER OR FREEZER WALLS.
5. SEE MANUFACTURER'S DRAWINGS FOR DIMENSIONS AND BOWL CAPACITIES.
6. PROPORTIONER DISPENSER FOR SOAP & SANITIZER SYSTEM, VENDOR SUPPLIED & INSTALLED.
7. WHEN SINK IS INSTALLED ON PREFABRICATED INSULATED WALL PANELS SPRAYER BRACKET MUST BE ATTACHED TO WOOD BLOCKING PROVIDED INSIDE PANEL, CENTERED APPROXIMATELY 54" A.F.F. TAP ON PANEL TO VERIFY LOCATION. WHEN SINK IS INSTALLED ON STUD PARTITION, ROUTE PIPING AND PROVIDE BLOCKING INSIDE PARTITION FOR SECURE ATTACHMENT OF SPRAYER WALL BRACKET.
8. FOR DRAIN LINES REFER TO BUILDING SPECIFICATION SECTION 22 13 00 FOR APPROVED PIPING MATERIAL.
9. ALL SINKS EQUIPPED WITH SPRAYERS SHALL HAVE CHECK VALVES ON BOTH HOT & COLD WATER LINES UNDER THE SINKS SUPPLYING THE FAUCETS.
10. REFER TO DRAWINGS FOR FINAL PLUMBING CONNECTION REQUIRED BY AUTHORITY HAVING JURISDICTION.



SIZES/CAPACITIES:
PL3M-7 = 48" x 20", 6.7 GALLONS/BOWL.
PL3-18 = 72" x 24 1/2", 11.8 GALLONS/BOWL.
PL3-20 = 100" x 33 1/2", 29.1 GALLONS/BOWL.

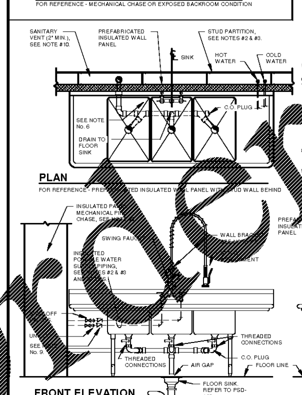
3-COMP UTENSIL WASHING SINK	DATE: 8/9/16
	DRAWN: ZAW
MASTER SPECIFICATION DETAIL	PSD-7

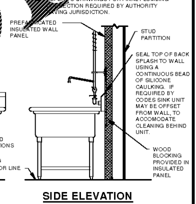
ORIGINAL ISSUE DATE: 2/20/06



NOTES:

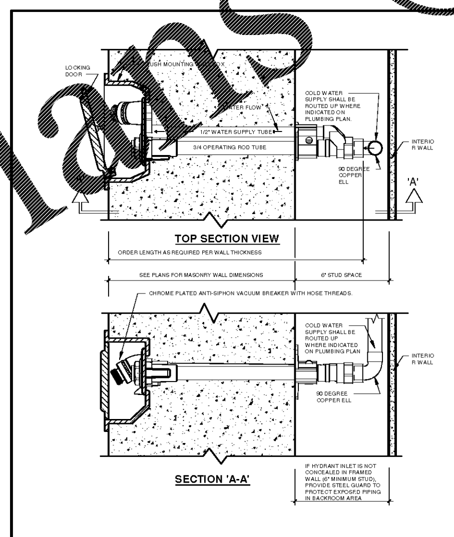
1. KROGER WILL FURNISH THE SINK, MIXING FAUCETS, 2" LEVER DRAINS, AND SPRAY ATTACHMENT & WALL BRACKET. CONTRACTOR TO INSTALL SINK COMPLETE.
2. CONTRACTOR SHALL MAKE EVERY EFFORT TO INSTALL WATER SUPPLY, SANITARY, AND VENT PIPING ON OTHER SIDE OF PREFABRICATED INSULATED WALL PANELS FORMING REFRIGERATED PREP AREA, VIA STUD PARTITION CAVITY OR INSULATED PANEL MECHANICAL PIPE CHASE OR EXPOSED IN BACKROOM WITH CURB TO PROTECT MECHANICALS. LENGTH OF PIPING ROUTED WITHIN THESE AREAS SHALL BE KEPT TO A MINIMUM.
3. FOR REMODELS WHEN W[illegible] AND SANITARY VENT [illegible] EXPOSED, PIPES [illegible] BE ROUTED [illegible] SINK AND SE[illegible] TO WALL WITH PIP[illegible] CLAMPS P[illegible] SPACE BETWEEN PI[illegible] AND W[illegible] HEALTH DEPARTMEN[illegible] REQUIREMENT[illegible] ECT PIPING, VIA PI[illegible] CHASE A MINIMU[illegible] CE FROM SINK A[illegible] INDICATED.
4. PIPING WILL NOT BE [illegible] TED IN COOLER OR FREEZER PANELS.
5. SEE MANUFACTURER'S [illegible] DIMENSIONS AND BOWL [illegible].
6. NOT USED.
7. WHEN SINK IS INSTALLED ON PREFABRICATED INSULATED WALL PANELS SPRAYER BRACKET MUST BE ATTACHED TO WOOD BLOCKING PROVIDED INSIDE PANEL, CENTERED APPROXIMATELY 54" A.F.F., VERIFY LOCATION. FOR REMODELS WHEN SINK MUST BE INSTALLED ON STUD PARTITION, ROUTE PIPING AND PROVIDE BLOCKING INSIDE PARTITION FOR SECURE ATTACHMENT OF SPRAYER WALL BRACKET.
8. FOR DRAIN LINES AND FLOOR SINK REFER TO BUILDING SPECIFICATION SECTION 22 13 00 FOR APPROVED MATERIAL.
9. ALL SINKS EQUIPPED WITH SPRAYERS SHALL HAVE CHECK VALVES ON BOTH HOT & COLD WATER LINES UNDER THE SINKS SUPPLYING THE FAUCETS.
10. REFER TO DRAWINGS FOR FINAL PLUMBING CONNECTION REQUIRED BY AUTHORITY HAVING JURISDICTION.





3-COMP CONDITIONING SINK FOR FOOD PREP	DATE: 6/15/16
	DRAWN: TW/ZW
MASTER SPECIFICATION DETAIL	PSD-7A

ORIGINAL ISSUE DATE 11/12/13



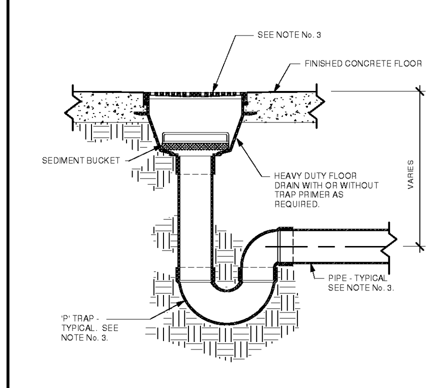
Notes:

Automatic Draining Freezeless Wall Hydrant -- Based on Woodford Model B65 with 'C' Inlet Option, per Specifications.

Hydrant Inlet on interior side on wall to be located in a perpendicular interior wall where possible to conceal; if not able to conceal in perpendicular interior wall, build a 6" stud furred partition to conceal.

EXTERIOR WALL HYDRANT	DATE: 1/11/11
	DRAWN: DCS
MASTER SPECIFICATION DETAIL	PSD-15D

ORIGINAL ISSUE DATE 2/20/06

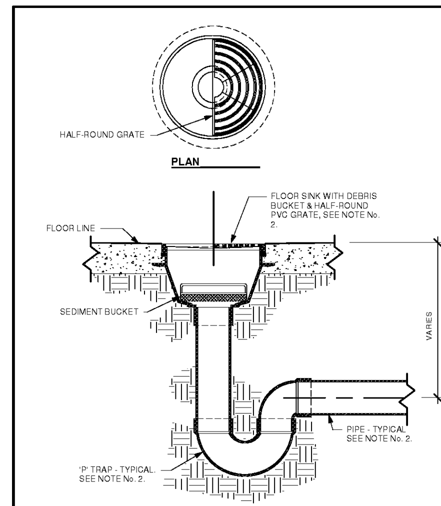


GENERAL NOTES:

1. SLOPE FLOOR TO FLOOR DRAIN AS INDICATED ON CONCRETE PLACEMENT PLAN.
2. FD6, CAST IRON GRATE. REFER TO BUILDING SPECIFICATION SECTION 22 13 00 FOR APPROVED PIPING MATERIAL.
3. REFER TO PLUMBING PLAN FOR LOCATIONS AND SIZES OF DRAIN AND PIPING.

TYPICAL HEAVY DUTY FLOOR DRAIN WITH DEBRIS BUCKET	DATE: 3/13/12
	DRAWN: ZAW
MASTER SPECIFICATION DETAIL	PSD-16

ORIGINAL ISSUE DATE 2/20/06



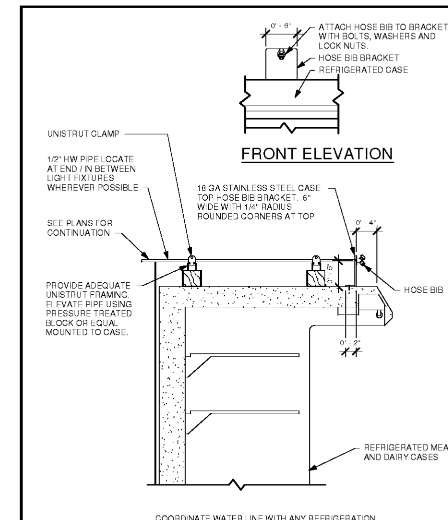
INTENDED USE:
MULTI-PURPOSE UNDER CABINET (i.e. STARBUCKS COFFEE, ONE HOUR PHOTO, DELI LINEUP, ETC.).
REFRIGERATED CASE FRONT DRAIN (WHERE REQUIRED BY CODE).

GENERAL NOTES:

1. REFER TO BUILDING SPECIFICATION SECTION 22 13 00 FOR APPROVED PIPING MATERIAL.
2. REFER TO PLUMBING PLAN FOR LOCATIONS AND SIZES OF DRAINS.

FLOOR SINK WITH DEBRIS BUCKET	DATE: 3/13/12
	DRAWN: ZAW
MASTER SPECIFICATION DETAIL	PSD-16B

ORIGINAL ISSUE DATE 2/20/06



COORDINATE WATER LINE WITH ANY REFRIGERATION LINES LOCATED ON TOP OF CASE.

HOSE BIB LOCATION AT REFRIGERATED CASE	DATE: 3/31/17
	DRAWN: ZAW
MASTER SPECIFICATION DETAIL	PSD-21

ORIGINAL ISSUE DATE 11/12/11

2" REFERENCE LINE

CINCINNATI 600 Vine Street suite 2210 Cincinnati, OH 45202 P 513.721.8080
DENVER 1675 Broadway suite 2400 Denver, CO 80202 P 800.469.4949
DALLAS 750 North St Paul Street suite 450 Dallas, TX 75201 P 800.469.4949
SEATTLE 506 2nd Avenue suite 2800 Seattle, WA 98104 P 800.469.4949

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1538 ALEXANDRIA PIKE, SUITE 11
FT. THOMAS, KENTUCKY 41075
800-354-9783 859-442-8050
859-442-8058 FAX

OWNER

Kroger

DATE	ISSUE
10/23/2018	90% OWNER REVIEW
11/01/2018	100% BID/PERMIT

# DATE	REVISION

PROJECT TITLE

KROGER STORE R543

MERCURY BLVD.
HAMPTON, VA

COMMISSION NO.	517315
ISSUE DATE	10/23/2018

SHEET TITLE

PLUMBING STANDARD DETAILS (PSD)

SHEET NO.

P5.1

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