

SkillsUSA

2015 Contest Projects

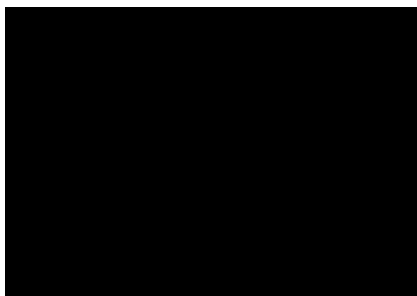
Plumbing

Click the “Print this Section” button above to automatically print the specifications for this contest. Make sure your printer is turned on before pressing the button.

SkillsUSA Championships – Plumbing Competition 2015 Contestant Booklet

TABLE OF CONTENTS

<u>Page</u>	<u>Contents</u>
1	Table of Contents
2	Welcome Letter – Roger Peugeot
3	Sponsor List
4	Committee Roster
5	Instruction Sheet – DWV
6	Graphic – Waste & Vent – Isometric
7	Instruction Sheet – Water Supply Plumbing System
8	Graphic – Domestic Water – Isometric
9	Graphic – Floor Plan/Fixture Plan
11	Graphic – Closet Rough-in
12	Graphic – Lavatory Rough-in
13	Graphic – Utility Tray Rough-in
14	Contest Material Requirements



June 24, 2015

Dear Residential Plumbing Contestant:

The Plumbing-Heating-Cooling Contractors – National Association Educational Foundation welcomes the opportunity to participate in the *SkillsUSA Championships Plumbing Competition*. It is our pleasure to represent the plumbing industry in this exciting event.

The PHCC Educational Foundation is dedicated to improving the industry by helping students in the plumbing, heating and cooling fields reach their full potential. The *SkillsUSA Championships* are an outstanding example of the professionalism that results when industry is joined with education.

You have selected an honorable and rewarding profession as a career. The PHCC Educational Foundation extends to you its congratulations and sincere best wishes for a successful competition.

Sincerely,

A handwritten signature in blue ink that reads "Roger Peugeot".

Roger Peugeot
Chairman
PHCC Educational Foundation



**The PHCC Educational Foundation Educational Foundation and SkillsUSA
gratefully acknowledge the following companies for their generous donations
of funds, materials, awards and/or prizes in support of the
*2015 SkillsUSA Championships – Plumbing Competition***

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2015 SkillsUSA Championships

Residential Plumbing Technical Committee

Robert Hahn, Co-Chair

Eastwick College, HoHoKus School of Trade

Bill Jones

Raven Mechanical, LP

Merry Beth Hall, Co-Chair

PHCC Educational Foundation

Mike Kirby

MILWAUKEE TOOL

Robyn Bucknam

Stanley, Black & Decker, Inc.

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Philip Campbell

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Laurie C. Crigler

L & D Associates, Inc.

Tony Senninger

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Victor Hatcher

Tyler Pipe & Coupling

Jim Steinle

Atomic Plumbing & Drain Cleaning

Tim House

Kentucky Association of Master Contractors

James Walls

Cast Iron Soil Pipe Institute

Instruction Sheet

DWV Plumbing System

Following are the instructions for the installation of the DWV plumbing system in the SkillsUSA Championships – Plumbing Competition. Refer also to the floor plan, rough-in sheets, and isometric drawings.

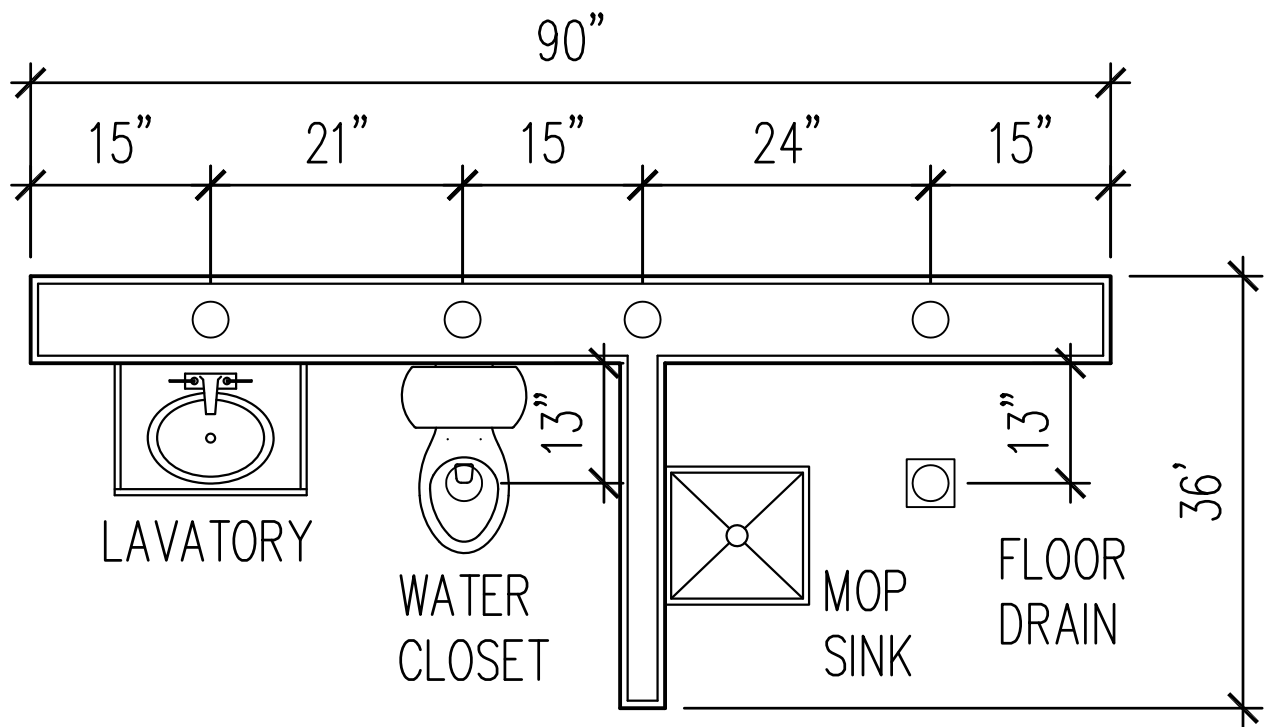
1. Drain and vent lines must be installed at no less than 1/8" or more than 1/4" per foot fall.
2. All rough-in measurements shall be within 1/8" plus or minus.
3. All vertical vent lines shall be installed plumb and all horizontal vent lines shall be installed graded and be of PVC.
4. Cast iron piping (soil, waste and vent) shall be supported and anchored from the bottom of the platform using clevis hangers and all-thread rod. Use riser clamps on the cast iron risers above the platform.
5. The 3" vent stack shall terminate above the top of the wall to a point 8-1/4" to the center of the vent fitting where revents connect.
6. The top of the plywood platform shall be considered the finished floor for all fixture rough-ins.
7. The transition from cast iron to PVC will be made with transition couplings at 7" above the finished floor.
8. The water closet, lavatory, utility tray and floor drain shall conform to the floor plan and rough-in sheets to within 1/8".
9. Fixture location shall conform to the floor plan.
10. The water closet flange shall be secured to the floor with the appropriate screws.
11. The lavatory wall bracket shall be attached with wood screws so that the lavatory will be at the location and height specified on the rough-in sheet.
12. The trap arm for the utility tray will terminate at a height of 14 1/2" above the finished floor and will be centered on the short wall.
13. The floor drain shall be located 15" from the end of the table with the rim to sit on the finished floor.
14. The judges may require the system to be tested and their decision is final.
- 15. THINK SAFETY AT ALL TIMES THROUGHOUT THE CONTEST!**

Instruction Sheet

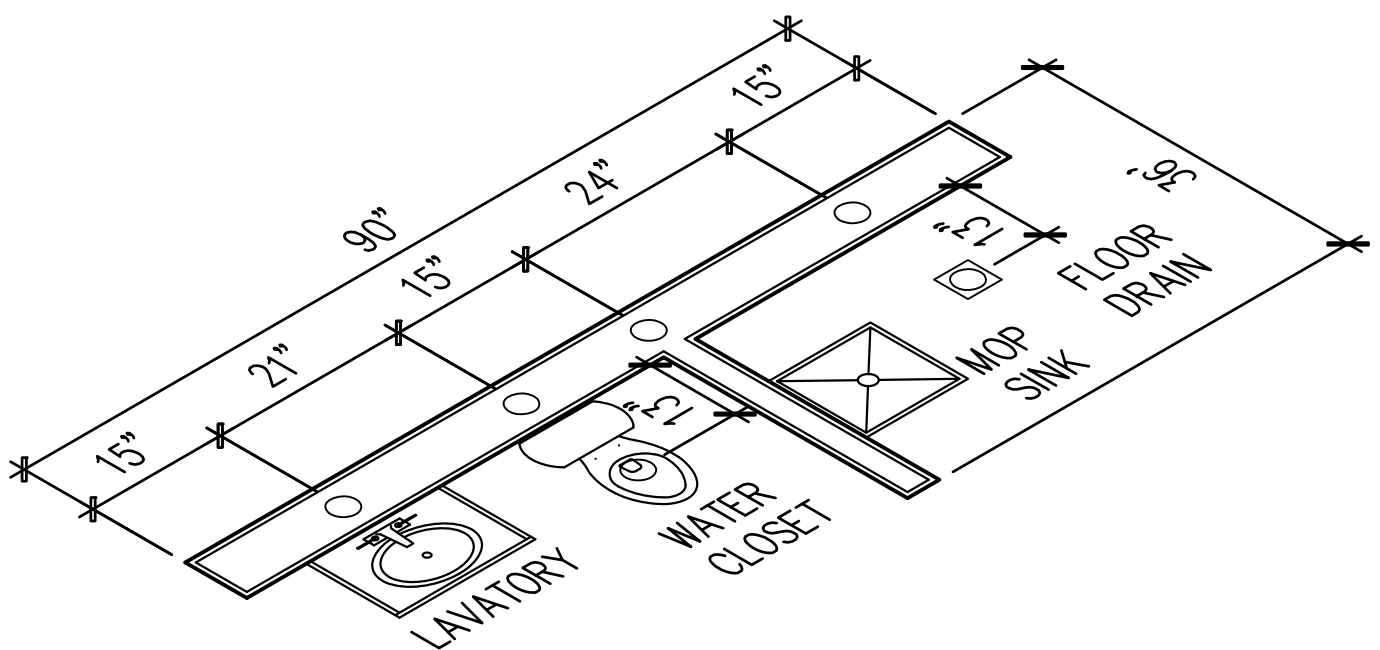
Water Supply Plumbing System

Following are the instructions for the installation of the domestic hot and cold water supply piping system for the SkillsUSA Championships – Plumbing Competition. Refer also to the floor plan, rough-in sheets, and isometric drawings.

1. The hot and cold water supply system shall be installed in accordance with the isometric drawing. The cold water line shall be on the bottom and extend 6" from the center of the 90° elbow to the end of the platform.
2. Run the water lines through the holes in the wall of the platform.
3. Both the hot and cold lines will be tied together with one tee and one 90° elbow each as shown on isometric.
4. A ¾" c x mip adapter will be installed on the hot water line that extends beyond the platform wall. This will be used for testing the system.
5. All rough-in dimensions shall be within 1/8" plus or minus.
6. The utility tray shall be located centered on the short front wall as per drawing.
7. The lavatory, water closet and utility tray supply lines shall be installed according to the floor plan and rough-in sheets.
8. All water piping must be true to the workstation with piping level and plumb.
9. Branch supplies shall extend beyond the wall of the platform with sufficient length to receive the fixture trim. The supply lines are to be connected to the lavatory faucet.
10. Piping must be neat and securely fastened using accepted industry standards for workmanship.
11. Completed projects will be tested. Provisions for testing are to be made at the ¾" c x mip tee, which is to be considered the water main.

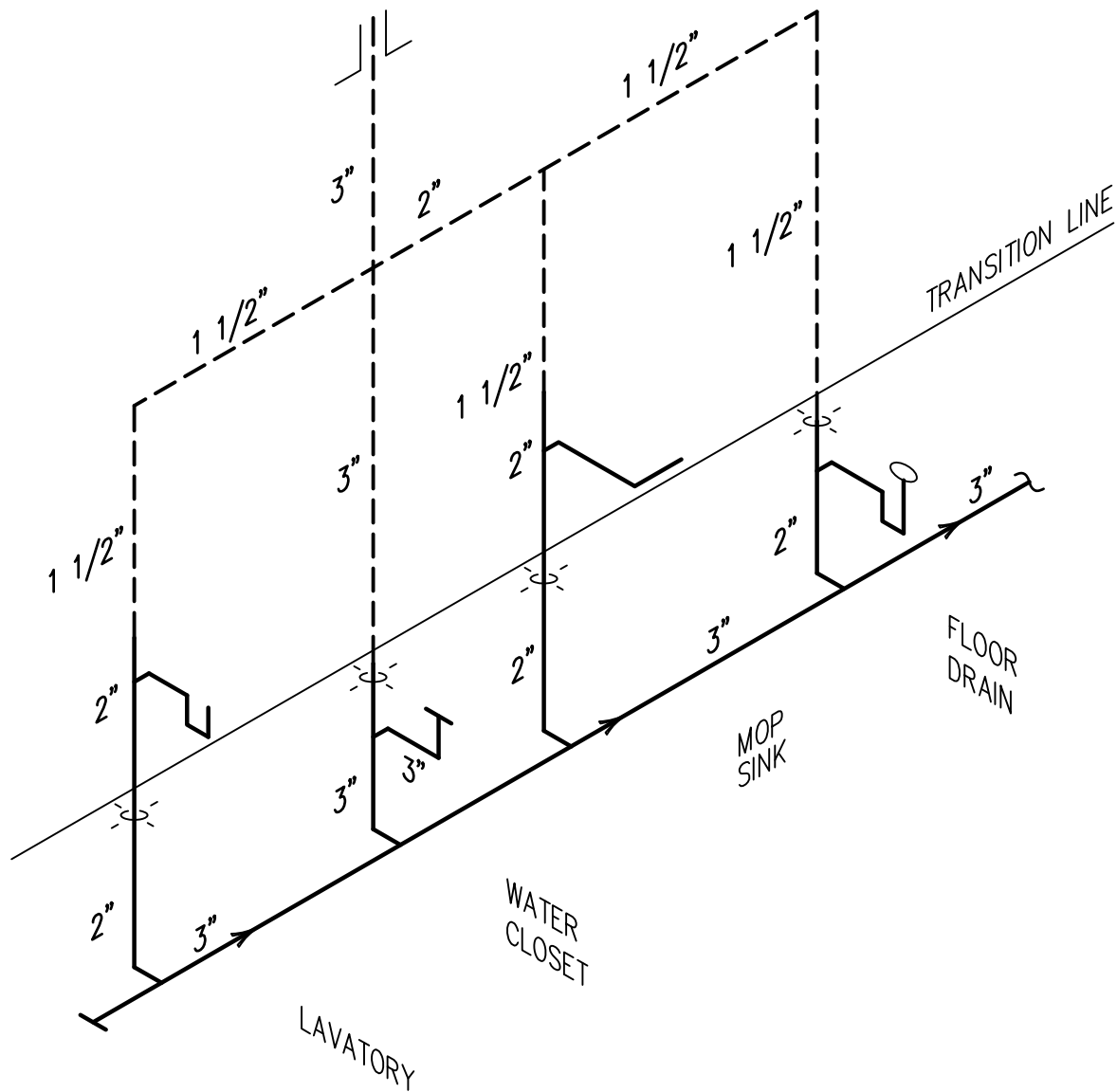


NOTE:
FLOOR PLAN AND
FIXTURE PLAN DRAWING
IS NOT TO SCALE.

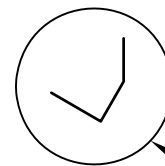
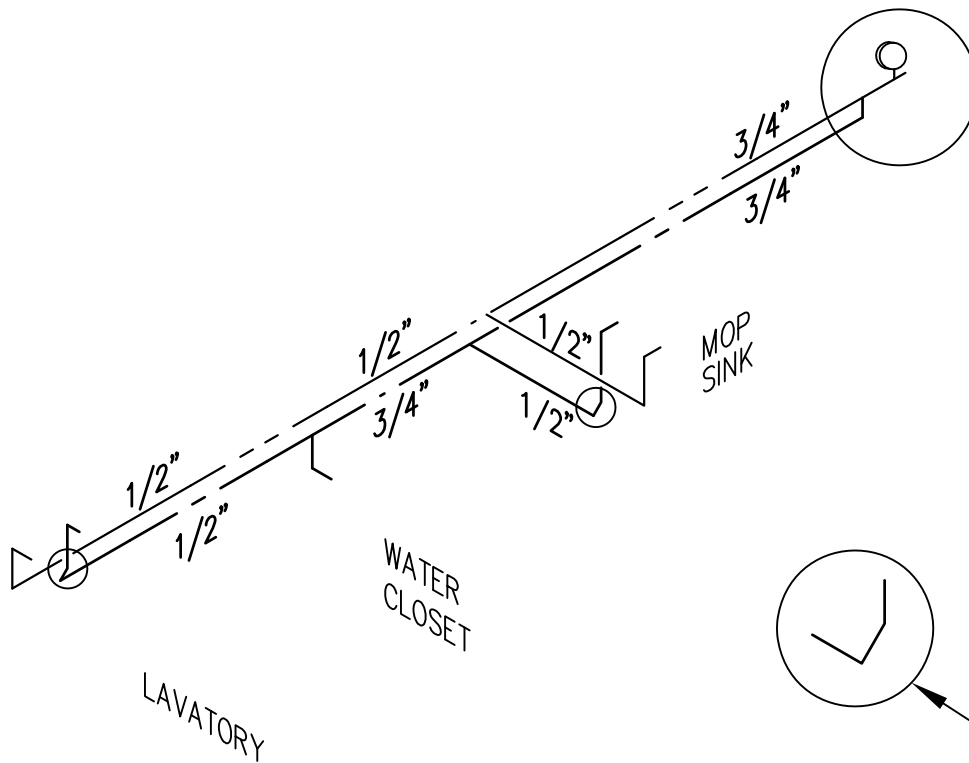
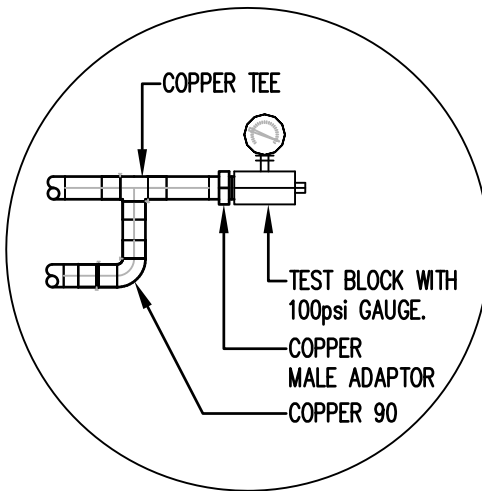


NOTE:
FLOOR PLAN AND
FIXTURE PLAN DRAWING
IS NOT TO SCALE.

NOTE:
ON ALL RISER DIAGRAMS DENOTE
FLOOR PENETRATIONS (TYPICAL).



NOTE:
WASTE AND VENT RISER
DRAWING NOT TO SCALE.



CLOSE UP VIEW FOR TWO CONNECTIONS.
TYP. 2

NOTE:

DOMESTIC COLD AND HOT
WATER LINES DRAWING IS
NOT TO SCALE.

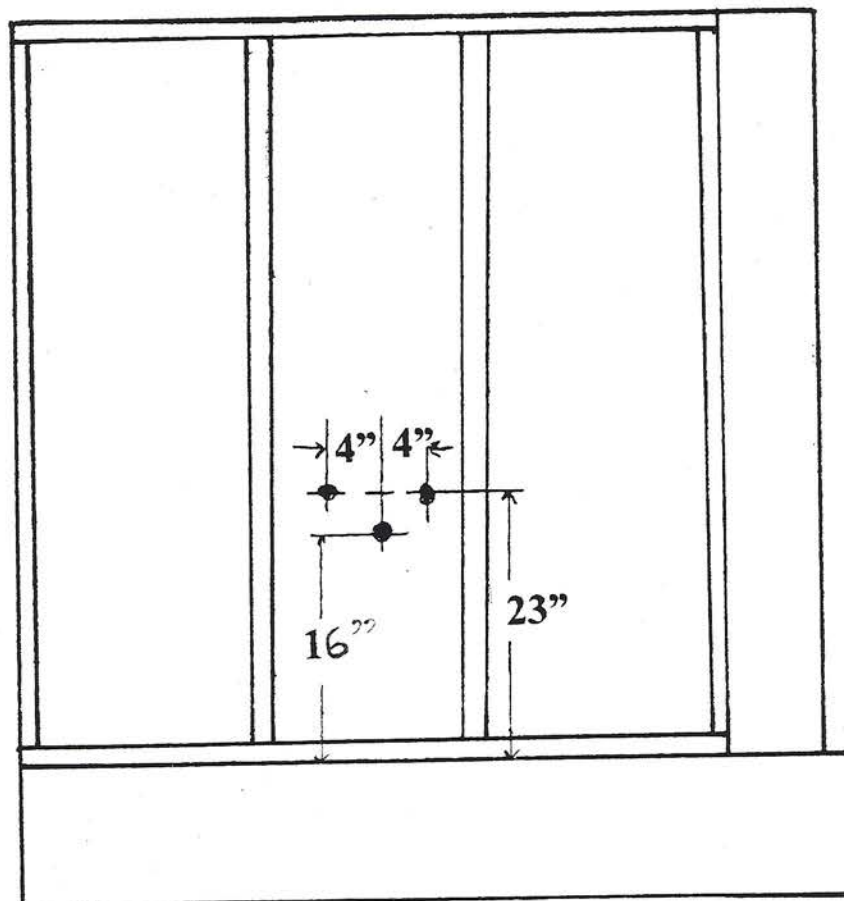
Lavatory Rough-In Sheet



Bowl configuration:	Single
Installation:	Wall-mount
Bowl area (Only)	Length: 18" (457 mm) Width: 12" (305 mm) Water depth: 4" (102 mm)
Number of deck holes:	3
Faucet hole(s):	1-1/4" (32 mm)
Drain hole:	1-3/4" (44 mm)

THE BOLD LOOK
OF **KOHLER**®

UTILITY TRAY ROUGH-IN





CLOSET ROUGH-IN