

**Murray Contractors BID MANUAL
Section 22 PLUMBING****Bid Package # 22 PLUMBING**

Your signature on this page is confirmation of your bid and an acknowledgement and acceptance of the requirements of the Murray Bid Manual, project schedule and all Addendums and CM Clarifications.

Company AR State Contractor's License #

Name Title

Address

City State Zip Code

Phone Number w/ Area Code Email Address

Specification:

Bidders will include work from referenced specifications and other work normally associated with this trade whether referenced or not.

1. 22 0000 SUPPLEMENTARY PLUMBING GENERAL CONDITIONS
2. 22 0517 SLEEVES AND SLEEVE SEALS FOR PLUMBING PIPING
3. 22 0519 METERS AND GAUGES FOR PLUMBING PIPING
4. 22 0523 GENERAL-DUTY VALVES FOR PLUMBING PIPING
5. 22 0529 HANGERS AND SUPPORTS FOR PLUMBING PIPING AND EQUIPMENT
6. 22 0548 VIBRATION AND SEISMIC CONTROLS FOR PLUMBING PIPING AND EQUIPMENT
7. 22 0553 IDENTIFICATION FOR PLUMBING PIPING AND EQUIPMENT
8. 22 0719 PLUMBING PIPING INSULATION
9. 22 1005 PLUMBING PIPING
10. 22 1006 PLUMBING PIPING SPECIALTIES
11. 22 1429 SUMP PUMPS
12. 22 3000 PLUMBING EQUIPMENT
13. 22 4000 PLUMBING FIXTURES
14. 07 8400 FIRESTOPPING

Scope of Work:

The bid package shall also include the following items but shall not limit more stringent requirements found elsewhere in the contract documents unless specifically listed as exclusion below.

1. Provide all labor, supervision, equipment, hoisting, materials, licenses, and trade permits required to perform all work, turnkey, outlined in this subcontract. Work not specifically shown but considered a standard requirement in the completion of this work is included.

2. All applicable sales tax (unless noted otherwise)
3. Submittals and shop drawings submitted to Murray Contractors within (14) days of award of contract.
4. Closeout documents submitted per Murray Contractors closeout procedures with (14) days prior to the original substantial completion date of the project.
5. Specified warranties shall be from the date of substantial completion.
6. Freight to the jobsite as it pertains to this scope of work, including any quick-shipment premiums.
7. Maintain accurate as-built drawings.
8. Verification of elevations and field measurements shown on documents prior to commencing work.
9. Installation of materials over substrate indicates acceptance of substrate.
10. Required layout for this scope, benchmark provided by others.
11. Required coordination with other trades.
12. Multiple mobilizations as required to perform this scope of work.
13. Contractor to supply water to the jobsite trailer.(no sanitary sewer required GC will use a tank system provided by temp toilet company.)
14. Should this subcontractor delay the critical path schedule, subcontractor shall provide all necessary overtime and manpower required to return this scope of work to be on schedule no cost to Murray Contractors.
15. Qualified, properly trained, and experienced supervision at all times.
16. Unloading of materials and deliveries to be placed on proper dunnage to prevent product damage.
17. Provide weather protection for stored materials.
18. Repair and replace any damage done to existing SWPPP measures by this trade.
19. Cleanup of any track out by this trade.
20. Subcontractor is responsible for damage done by its own forces to other trade's work.
21. Provide daily clean-up of all debris generated by subcontractor to Murray Contractors provided dumpster.
22. Compliance with all rules, regulations, and requirements of local, state, and federal authorities.
23. All work shall strictly comply with adopted building codes. Any discrepancies should be clarified and approved by authority having jurisdiction.
24. Full compliance with Murray Contractors safety policies and all governing OSHA guidelines.
25. All cost associated with perimeter safety, fall protection, and personal protective equipment.

Trade Specific Scope of Work

1. Perform field verification of existing conditions, existing utilities, and coordination with architectural, structural, mechanical, electrical, kitchen, and civil drawings prior to starting work.
2. Provide selective demolition of existing plumbing fixtures, piping, water heater, floor drains, and associated systems as indicated on demolition plans (P101–P103, P801); cap, clean, and rod remaining drains as noted; protect existing work to remain.
3. Obtain all required permits, fees, inspections, and approvals from the Authority Having Jurisdiction; furnish certificates of final inspection and approval.
4. Submit product data, shop drawings, qualifications, and all Division 01 submittals for piping, valves, equipment, fixtures, and specialties.
5. Furnish and install new domestic water services complete with reduced-pressure backflow preventer, strainer, valves, pressure reducing valve, and water meter provisions; coordinate with Civil.
6. Furnish and install complete domestic cold and hot water distribution piping throughout all floors and buildings, including risers, branches, and connections to all fixtures and equipment.
7. Furnish and install hot water recirculation system, including circulating pump, balancing valves, check valves, and associated piping and controls.
8. Furnish and install commercial gas-fired water heater complete with gas connection, flue/vent, drain pan, and all accessories.
9. Furnish and install electric water heater with hardwired electrical connection, relief valve, and accessories.
10. Furnish and install expansion tank on the domestic hot water system.

11. Furnish and install thermostatic mixing valves for tempered water applications, including all associated piping, gauges, and controls.
12. Furnish and install complete sanitary waste and vent piping systems for all floors, including risers, branches, traps, and connections to all fixtures; maintain proper slopes and invert elevations.
13. Furnish and install grease interceptor complete with manholes, anchor kit, sampling port, and all associated piping and cleanouts; coordinate location and traffic loading with Civil/Site.
14. Furnish and install sump pump in designated pits, including float switch, check valve, discharge piping to grade, and electrical connections.
15. Furnish and install natural gas piping from the gas meter/regulator entrance to all gas-fired equipment (water heater, kitchen equipment, etc.), including dirt legs, shutoff valves, and flexible connectors where required; coordinate with gas utility.
16. Furnish and install all storm, overflow, and roof drainage piping as indicated, including roof drains (RD/ORD), overflow roof drains, and connections to site storm system.
17. Furnish and install all plumbing fixtures per the Plumbing Fixture Schedule (P501), including water closets, lavatories, sinks, urinals, ADA showers, bottle filler, ice maker supply box, service sink, and dispensers; include carriers, flush valves, faucets, traps, supplies, and stops.
18. Provide under-lavatory pipe insulation covers on all accessible lavatories and sinks to meet ADA requirements.
19. Furnish and install all floor drains, floor sinks, cleanouts, roof drains, and specialties per schedules and details; include trap guards where indicated.
20. Furnish and install water hammer arrestors at all quick-closing valves and fixtures per schedule and manufacturer recommendations.
21. Provide freezeproof wall hydrants, refrigerator valves/boxes, and other specialties as indicated.
22. Furnish and install all pipe hangers, supports, seismic bracing (where required), sleeves through walls/floors, escutcheons, and firestopping at penetrations to maintain required ratings.
23. Insulate all domestic hot water, recirculation, and exposed cold water piping (where specified) per Section 22 0719, including vapor barrier and protective shields at supports.
24. Provide identification (labels, tags, and color coding) for all piping, valves, and equipment per Section 22 0553.
25. Coordinate all rough-in, final connections, and clearances with kitchen equipment consultant, millwork, HVAC, electrical, and other trades; provide unions/flanges at equipment for serviceability.
26. Flush, test, and disinfect the entire domestic water system per specifications; obtain AHJ approval prior to covering work.
27. Test all sanitary, waste, and vent systems (water or air test as required); rod and clean lines as necessary.
28. Provide vibration isolation and supports for equipment and piping where specified to achieve vibration-free installation.
29. Protect finished areas, conceal piping in chases or above ceilings, and provide access panels where valves, cleanouts, or controls are concealed.
30. Furnish operation and maintenance manuals, record drawings (as-built locations of valves, cleanouts, and major equipment), spare parts lists, and owner training.
31. Provide warranties and all closeout documentation.
32. Perform all work in a neat and workmanlike manner, comply with all codes and include all incidental materials and labor for a complete, operational system per plans and specifications.

Base Bid Amount

	\$
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Bid Breakouts

	\$	
	\$	
	\$	

Alternates

Alternate #	Description	Amount
		\$
		\$
		\$

Addenda

Addenda #	Date

VOLUNTARY VALUE ANALYSIS

Value Analysis propositions will be strongly considered in the subcontractor selection process. Bidders are encouraged to explore and identify Value Analysis savings for this scope of work. Please describe below (and on separate page if necessary) any cost saving opportunities as well as potential savings:

Unit Prices:

The contract between Murray Contractors and the successful low bidder will be a fixed lump sum Subcontract Agreement. For revisions to the scope of the project and/or revisions to the contract documents, the lump sum contract amount would be adjusted by change order at the following unit prices. All unit prices shall include labor, materials and equipment. Where applicable to Scope of Work, provide the following unit prices. (Insert N/A if it does not apply)

Unit Price	Amount	Unit
	\$	
	\$	
	\$	