

**Murray Contractors BID MANUAL
Section 21 FIRE SPRINKLERS****Bid Package # 21 FIRE SPRINKLERS**

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. 21 0000 SUPPLEMENTARY FIRE SUPPRESSION GENERAL CONDITIONS
2. 21 0500 COMMON WORK RESULTS FOR FIRE SUPPRESSION
3. 21 0523 GENERAL-DUTY VALVES FOR WATER-BASED FIRE-SUPPRESSION PIPING
4. 21 0548 VIBRATION AND SEISMIC CONTROLS FOR FIRE SUPPRESSION PIPING AND EQUIPMENT
5. 21 0553 IDENTIFICATION FOR FIRE SUPPRESSION PIPING AND EQUIPMENT
6. 21 1100 FACILITY FIRE-SUPPRESSION WATER-SERVICE PIPING
7. 21 1300 FIRE-SUPPRESSION SPRINKLER SYSTEMS
8. 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. 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.
14. Qualified, properly trained, and experienced supervision at all times.
15. Unloading of materials and deliveries to be placed on proper dunnage to prevent product damage.
16. Provide weather protection for stored materials.
17. Repair and replace any damage done to existing SWPPP measures by this trade.
18. Cleanup of any track out by this trade.
19. Subcontractor is responsible for damage done by its own forces to other trade's work.
20. Provide daily clean-up of all debris generated by subcontractor to Murray Contractors provided dumpster.
21. Compliance with all rules, regulations, and requirements of local, state, and federal authorities.
22. All work shall strictly comply with adopted building codes. Any discrepancies should be clarified and approved by authority having jurisdiction.
23. Full compliance with Murray Contractors safety policies and all governing OSHA guidelines.
24. All cost associated with perimeter safety, fall protection, and personal protective equipment.

Trade Specific Scope of Work

1. Perform site investigation, review all architectural, structural, MEP, and civil drawings, and confirm existing conditions, ceiling types/heights, and coordination points prior to design.
2. Provide complete system design, hydraulic calculations, and stamped shop drawings by Arkansas PE for all wet- and dry-pipe systems; submit for AHJ and Architect/Engineer approval with proof of approval.
3. Submit product data, designer/manufacturer/installer qualifications, coordination drawings, and all required submittals per Division 01 and Section 21 0000.
4. Obtain all required permits, fees, and inspections from the Authority Having Jurisdiction; furnish certificates of final inspection.
5. Furnish and install reduced-pressure principle backflow preventer / detector check or double-check detector assembly (with OS&Y gate valves) as required at the building service entrance.
6. Furnish and install remote free-standing fire department connection (FDC) of corrosion-resistant metal (polished brass or equal), two-way 2½-inch inlets with caps/chains, signage, and connection piping to the system as indicated (coordinate location with Civil and AHJ).
7. Furnish and install complete wet-pipe sprinkler system throughout indicated basement, ground floor, and second floor areas, including riser(s), check-type alarm valve with trim, pressure retard chamber, and all piping.
8. Furnish and install complete dry-pipe sprinkler system in indicated locations, including dry-pipe alarm valve with accelerator, air compressor (120V, single-phase with maintenance device), and associated piping/equipment (air compressor location as noted on FP201).
9. Provide system riser with all required valves, gauges, drains, and trim; route fire line up through chase to floors above as indicated on plans.
10. Furnish and install all above-ground black steel piping & fittings, grooved couplings, and joints per Section 21 0500; route piping tight to structure, above finished ceilings, and minimize obstructions; final routing and head layout subject to design team confirmation.
11. Furnish and install quick-response sprinklers (standard coverage) of the types required: recessed pendant with custom-painted push-on escutcheons for suspended ceilings, pendant for exposed

- areas, recessed sidewall with custom escutcheons, and concealed dry-type as applicable; temperature ratings matched to hazard; center in ceiling tiles with offsets as needed.
12. Provide flexible stainless-steel drop systems with supports/bracing where required for proper head location.
 13. Furnish and install all pipe hangers, supports, seismic bracing/couplings (where required), escutcheons (custom painted), sleeves, and firestopping at penetrations to maintain required fire ratings.
 14. Furnish and install water motor gong alarm, vane-type waterflow switches, inspector's test connections (routed to acceptable open drain), and all control valves; interface all required devices with the fire detection and alarm system.
 15. Coordinate sprinkler head locations, piping routing, and ceiling penetrations with architectural reflected ceiling plans, lighting, HVAC, and other trades; protect heads/escutcheons from painting.
 16. Provide steel spare sprinkler cabinet with the required quantity of matching spare heads and wrenches per NFPA 13.
 17. Identify all piping, valves, and equipment with permanent labels/tags per Section 21 0553.
 18. Flush entire piping system, perform hydrostatic testing of the complete system, and conduct all required functional tests; require Fire Marshal/AHJ witnessing as specified.
 19. Provide vibration isolation and seismic controls for piping and equipment where required by Section 21 0548.
 20. Coordinate electrical power connections for air compressor and any powered devices with Division 26.
 21. Clean all piping, valves, and equipment; remove temporary protective coatings and foreign materials.
 22. Furnish operation and maintenance manuals, record drawings (actual locations of heads, piping, drains, and valves), and spare parts information.
 23. Provide owner training and demonstration of the system.
 24. Provide manufacturer and installer warranties and closeout documentation.
 25. Protect existing finishes and adjacent work; restore any disturbed areas; comply with all temporary facilities, quality, and execution requirements of Division 01.
 26. Perform all work in accordance with referenced standards (NFPA 13, FM, UL, AWWA, ASTM, etc.) and submit manufacturer's certification that the system meets or exceeds code and specification requirements.

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
	\$	
	\$	
	\$	