



REQUEST FOR PROPOSAL

Project Title: Cooley Laboratory Renovation
Location: Montana State University

PPA No.: 10-0023
RFP No.: 79R
Date: October 25, 2012
November 16, 2012

To: Dick Anderson Construction
4498 Jackrabbit Lane
Bozeman, MT 59718

Attention: Platisha

From: Cecilia Vaniman, Project Manager
Cooley Lab Renovation
Montana State University

Attention:

In order to expedite the Work and avoid or minimize delays in the Work the following information is requested. Please return a response by: 10/31/2012 Date Sent: 10/25/2012 Date Received:

Proposal Requested:

PROVIDE BYPASS VALVING, AND FLOW BALANCE DEVICE FOR CHILLED WATER SYSTEM

Scope of work includes; Division 15

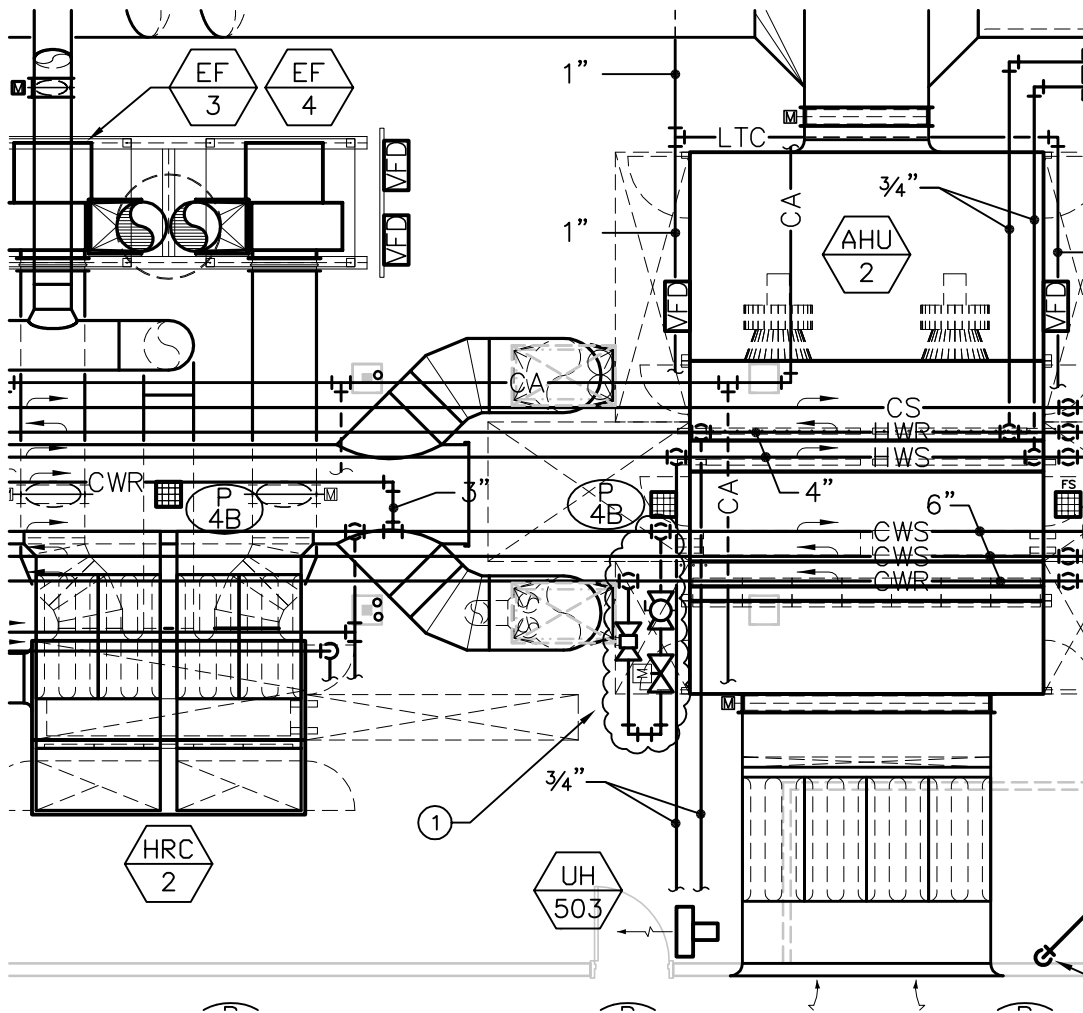
- Install all components as described on CM-17 dated 10/24/2012

"If copper piping is utilized for the 2" bypass loop, dielectric separation between the short copper bypass loop piping and the black steel main piping is not required

SEE ATTACHED CM-17

This RFP is for pricing purposes only. The contractor shall not proceed with the scope of work described within until pricing is approved by the owner in writing.

Distribution: [ ] Owner [ ] Agency [x] Architect [x] Contractor [ ] Engineer [ ] Other



**① PARTIAL PENTHOUSE MECHANICAL PIPING PLAN**  
 1/8"=1'-0"

**NOTE:**

- ① INSTALL A 2" BYPASS LINE BETWEEN THE COMMON CHILLED WATER SUPPLY UPSTREAM OF THE AIR HANDLING UNIT CHILLED WATER SUPPLY CONNECTIONS TO THE COMMON AIR HANDLER CHILLED WATER RETURN LINE. INSTALL A FULL PORT ISOLATION BALL VALVE, TWO POSITION MOTORIZED CONTROL VALVE AND A MANUAL FLOW BALANCE DEVICE IN THE BYPASS LINE. THE LOCATION FOR THE ARRANGEMENT SHOWN ON PLANS IS DIAGRAMATIC. FIELD LOCATE THE BYPASS WHERE IT IS MOST ACCESSIBLE ALONG THE MAINS.

THE FLOW BALANCE DEVICE SHALL BE A FLOW DESIGN MODEL UA-C-8, 2" SIZE, INTEGRAL BALL VALVE, UNION CONNECTION. ADJUST TO PRODUCE APPROXIMATELY 75 GPM WITH ALL FAN COIL CONTROL VALVES CLOSED.

THE CONTROL VALVE MAY BE A GLOBE, BALL OR BUTTERFLY DESIGN AND SHALL HAVE A MINIMUM Cv RATING OF 40. ADD A CONTROL SEQUENCE TO FULLY OPEN THE VALVE WHENEVER THE HEAT PUMP CHILLED WATER MODE IS ACTIVE AND TO FULLY CLOSE THE VALVE WHENEVER THE HEAT PUMP MODE IS DEACTIVATED.

PIPING MAY BE STEEL OR COPPER. STEEL MAY BE WELDED OR THREADED. ATTACHMENT TO MAINS MAY BE ANY METHOD ALLOWED BY SPECIFICATIONS FOR CHILLED WATER SYSTEMS.

INSULATE THE BYPASS ARRANGEMENT WHEN COMPLETE.

REFERENCE SHEET M2.5



524 FIRST AVENUE S  
 GREAT FALLS, MT 59401  
 PH 406.452.9558  
 FX 406.727.9720

2291 W BROADWAY  
 SUITE 4  
 MISSOULA, MT 59808  
 PH 406.721.5936  
 FX 406.721.8716

ADD CHILLED WATER BYPASS  
 FOR CHILLED WATER SYSTEM  
 HEAT PUMP MODE

MSU-COOLEY LAB RENOVATION  
 BOZEMAN,  
 MONTANA

ISSUE:

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DATE  
 10/24/2012  
 PROJECT NUMBER  
 100104

DRAWING NUMBER  
 CM-17  
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