



# DEPARTMENT OF VETERANS AFFAIRS

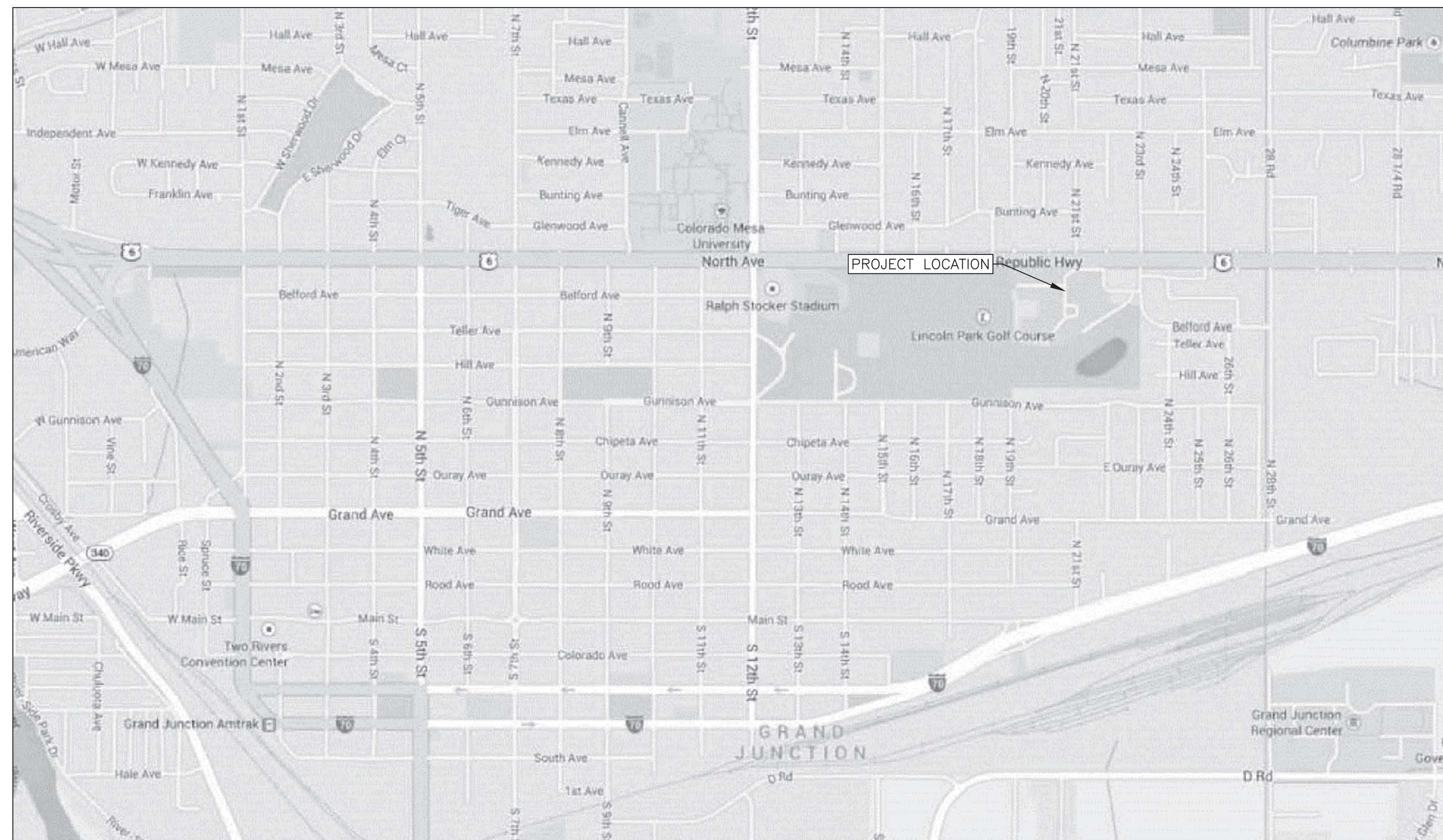
## GRAND JUNCTION MEDICAL CENTER

### ELIMINATE DOMESTIC WATER DEAD END LINES

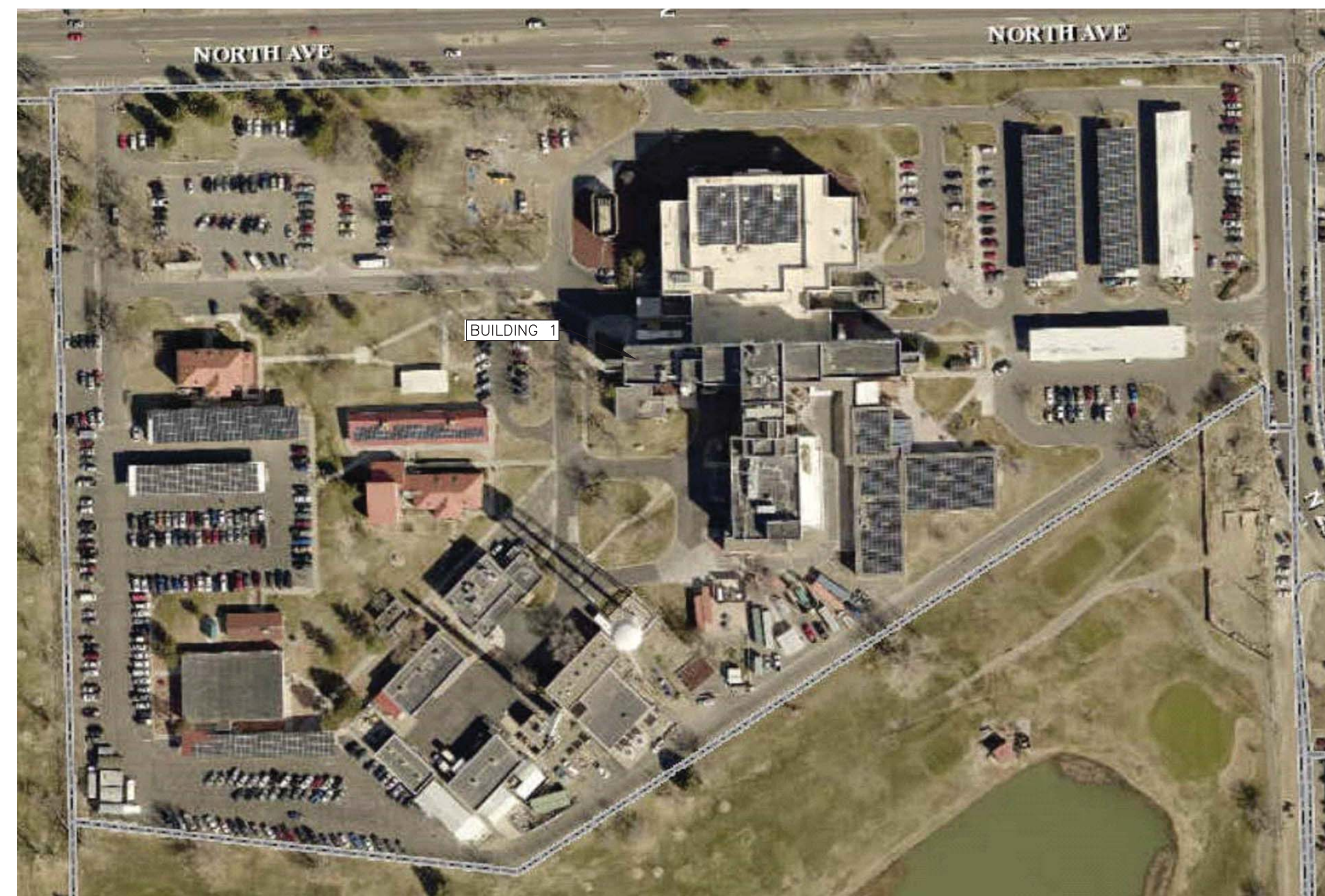
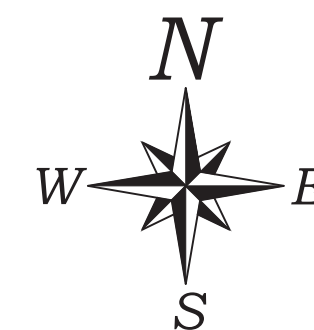
#### 575-14-828

#### 2121 NORTH AVENUE

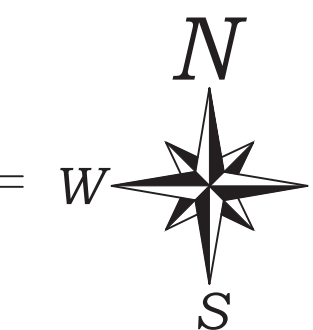
#### GRAND JUNCTION, COLORADO 81501



VICINITY MAP

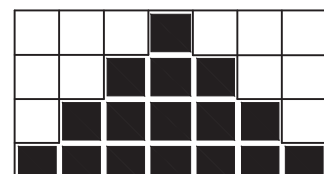





SITE MAP



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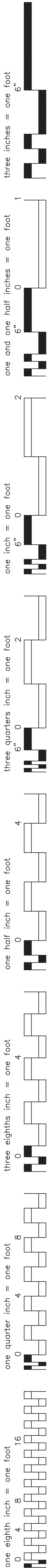
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<div>Revisions</div> <div>Date</div>		<div>CONSULTANTS:</div> <div><b>PCD</b> ENGINEERING SERVICES 323 3RD AVENUE, #100 TEL: 303.678.1108 LONGMONT, CO 80501 FAX: 303.678.1142 JOB NO. 14031 PCDENGINEERING.COM</div>	<div></div>	<div>ARCHITECT/ENGINEERS:</div> <div><b>CES</b> CONSTRUCTION ENGINEERING SOLUTIONS, LLC. 715 Roundup Drive Grand Junction, Colorado 81507 970.549.4504</div>	<div>Drawing Title</div> <div>Cover Sheet</div> <div>Approved Project Director</div> <div>John Bartman</div> <div>Phone: 970.242.0731</div>	<div>Project Title</div> <div>Eliminate Domestic Water Dead End Lines</div> <div>Location</div> <div>2121 North Avenue Grand Junction, CO 81501</div> <div>Date</div> <div>Jan, 2015</div> <div>Checked</div> <div>SMN</div> <div>Drawn</div> <div>SMN</div>	<div>Project Number</div> <div>#575-14-828</div> <div>Building Number</div> <div>-</div> <div>Drawing Number</div> <div>G10</div> <div>Dwg. 1 of 10</div>	<div>Office of Construction and Facilities Management</div> <div> Department of Veterans Affairs</div>
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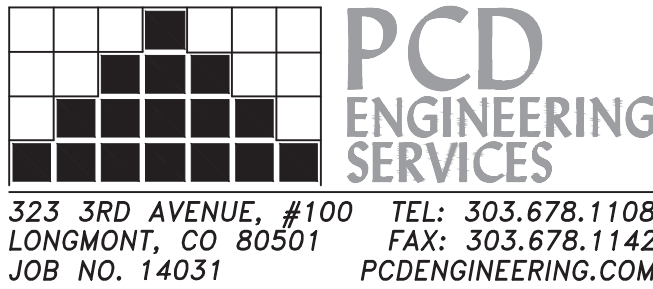

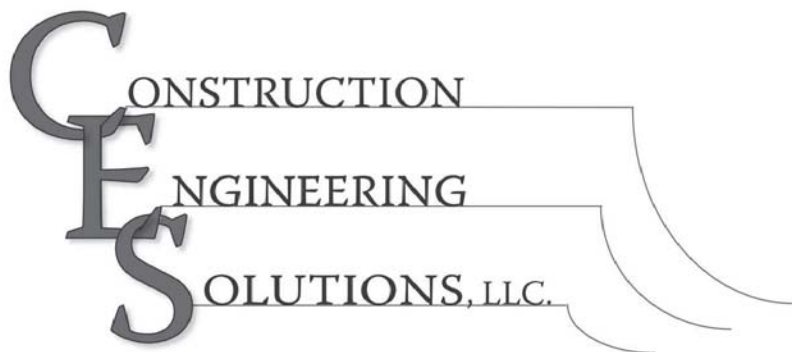



Phase	Work Element	Work Location	System Section Shutdown
1	Remove Capped Lines, Install New Isolation Valves	South Wing Crawlspace	South Wing Water System
2	Remove Capped Lines, Install New Isolation Valves	West Wing Crawlspace	West Wing Water System
3	Remove Capped Lines, Install New Isolation Valves	East Wing Crawlspace	East Wing Water System
4	Install New Recirculation Pumps	Basement Mechanical Room	Work shall be performed during weekend, work will require shutdown of entire HWC system
5	Remove unused CW and HW lines	Room 1010	Column 23 CW/HW/HWC Risers
	Install new HW line	Room 1010	
6	Install new HWC lines, and remove existing HW/HWC connection at the riser	Room 1008 and 1014	Column 27 HW/HWC Risers
7	Replace Galvanized CW Riser	East Wing Crawlspace, Room 1008	South Wall (East Wing) CW/HW/HWC Risers
	Remove unused portion of CW Riser	Room 2008	
	Install new HWC line	Room 1008	
	Remove unused CW/HW lines	Room 1008	
8	Install new HWC Line	Rooms 2238, 2240 and 2222	Column 45 CW/HW/HWC Risers
	Remove Unused CW line	Rooms 2236, 2234 and 2240	
	Install new HWC line connection and isolation valve, work will be completed in Phase 9	Room 2236	
9	Install new HWC line	Rooms 2213 and 2217 (A)	Lab Area HW and HWC system
	Install new HWC line	Rooms 2217, 2218, 2240 and 2228	
	Install 2 new HWC lines	Room 2217	
	Install new HWC line from connection made in Phase 8	Rooms 2235 and 2236	
	Install new HWC line	Rooms 2230, 2240 and 2232	
10	Install new HWC line	Rooms 2217 and 2220	Local Branch Line with Isolation Valve
11	Install new HWC line, and remove existing HW/HWC connection at the riser	Rooms 1412 and 1418	Column 5 HW/HWC Risers
12	Remove unused CW and HW lines	Room 1410	Column 10 CW/HW/HWC Risers
	Install new HWC line	Rooms 2406, 2408 and 2433	
		Rooms 2433, 2002 and 2409	
	Remove unused HW line		
13	Install new HWC line	Room 1008	Column 19 HW/HWC Risers
	Install new HWC line	Rooms 2010(A) and 2402	
	Install new HWC line	Rooms 4010, 4012 and 4014	
	Remove HW/HWC connection	Room 5010B	
	Remove 2 unused HW lines	Room 5010B and 5010A	
	Install new HWC line, and remove existing HW/HWC connection at the riser	Rooms 5011 and 5031	
14	Remove HWC line	Rooms 5003 and 5031	Columns 19 and 10/12 HW/HWC Risers

Phase	Work Element	Work Location	System Section Shutdown
15	Install new HWC line	Rooms 2207 and 2202	East Wall (South Wing) HW/HWC Risers
16	Replace Galvanized CW Riser	Rooms 2421, 3407 and 3406	Column 4 CW Riser
17	Replace Galvanized CW Riser	Rooms 2420, 3404, 4408 and 5413	CW Riser between Columns 4 and 6
18	Replace Galvanized CW Riser	Rooms 1011 and 2016	Column 26 CW Riser
19	Replace Galvanized CW lines	Rooms 3024A and 4018	Column 24 CW Riser
	Install new HWC line, and remove existing HW/HWC connection at the riser	Room 4018	
20	Install balancing valve and ball-type isolation valve	Room 3400	HWC Riser between Columns 10 and 12
21	Install new HWC line, balancing valve, and ball-type isolation valve	Rooms 3404 and 3405	HW/HWC Risers between Columns 4 and 6
	Install new HWC line, balancing valve, and ball-type isolation valve. Remove existing connection between HW/HWC at the riser.	Rooms 4408 and 4409	
22	Install balancing valve and ball-type isolation valve, and remove unused CW and HW lines	Room 3023	Column 26 HW/HWC Risers
	Install new HWC line	Room 5014 and Hallway	
23	Replace Galvanized CW Riser	Rooms 3210, 3209 and 4211	Column 36 CW/HW/HWC Risers
	Remove unused CW and HW lines	Rooms 4204 and 4209	
	Install new HWC line	Room 4210 and 4211	
24	Remove unused CW line	5th Floor West Wing Hallway	5th Floor West Wing CW System
25	Install new HWC line, and remove existing HW/HWC connection at the riser	Rooms 3411 and 3432	Column 1 CW/HW/HWC Risers
	Remove unused CW and HW lines	3rd Floor West Wing Hallway	
26	Removed unused CW line	Rooms 2407 and 2409	Column 9 HW/HWC Risers
	Install new HWC line, balancing valve, and ball-type isolation valve	Rooms 2407, 2407(A), 2706 and 2413	
	Install new HWC line	Room 3413	
	Install new HWC line	Rooms 5419 and 5412	
	Install 2 new HWC lines	Rooms 5431 and 5409	
	Remove existing HW/HWC connection in room 5431	Room 5431	
27	Removed existing HW/HWC connection at the riser	Column 9 Riser	Column 31 CW/HW/HWC Risers
	Remove unused CW and HW lines	Rooms 4203 and 4204	
	Install new HWC line	Rooms 4203 and 4206	
	Remove unused HW lines	Room 5209	
28	Install new HWC line	Rooms 5205 and 5208	
28	Remove unused CW lines	Room 5209	5th Floor South Wing CW System
29	Install 2 new HWC lines	Rooms 5203 and 5202	HW/HWC Riser from 4th Floor, Isolation Valves in Room 4211
30	Install new HWC line, and remove existing HW/HWC connection	Room 5421	HWC Riser between Columns 2 and 4

GENERAL PHASING NOTES

- Phasing numbers are for reference only. Contractor shall phase the project in the most efficient manner possible.
- The Contractor shall develop a schedule for all necessary water shutdowns and submit it to the COR prior to commencing work.
- All shutdowns shall be coordinated with COR and affected users no later than 72 hours prior to the shutdown.
- The Contractor shall be responsible for posting signs on any out of service publicly used restrooms, fixtures, etc. that states the restroom/fixture is out of order and include directions to the nearest in service restroom/fixture. The Contractor shall coordinate these signs with the COR prior to posting.
- This project involves work within existing walls, ceilings and mechanical spaces. The Contractor shall make every effort to minimize disturbances to walls and ceilings, and shall repair any affected areas to match existing conditions. The Contractor shall phase their work such that removed sections of walls and ceilings are left open for as short of time period as possible. Penetrations through smoke and fire barriers shall be properly repair according to VA standards. Any stained, broken, missing, or otherwise damaged ceiling tile shall be replaced by the Contractor to match the existing tile as closely as possible. Any damages caused by the Contractor to existing building elements beyond the scope of this project shall be repaired by the Contractor at no cost to the Owner.

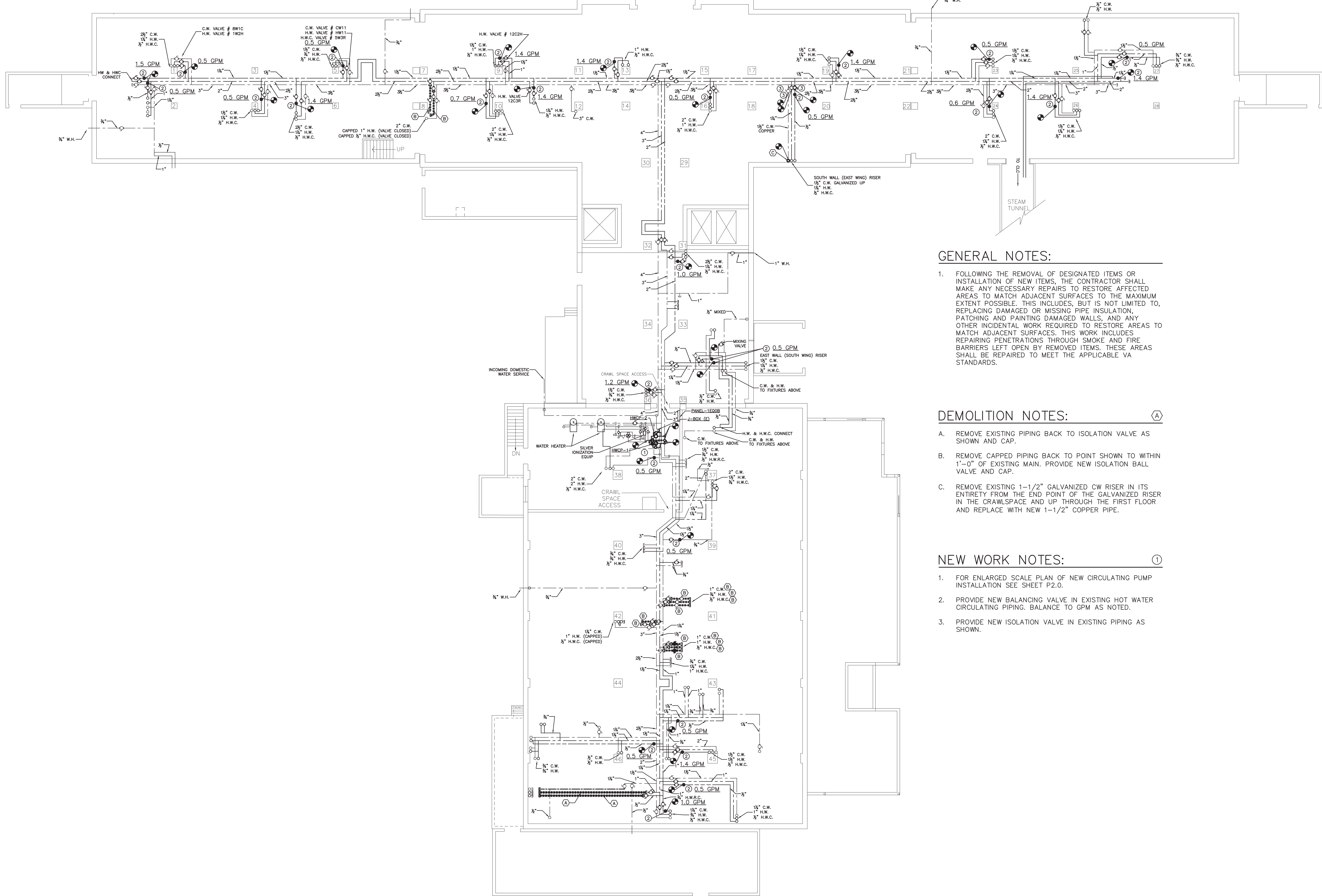
Revisions:	Date	CONSULTANTS:	<div><p>323 3RD AVENUE, #100 TEL: 303.678.1108 LONGMONT, CO 80501 FAX: 303.678.1142 JOB NO. 14031 PCDENGINEERING.COM</p></div>	<div><p>COLORADO LICENSE 48406 1/29/15 PROFESSIONAL ENGINEER</p></div>	ARCHITECT/ENGINEERS:	<div><p>715 Roundup Drive Grand Junction, Colorado 81507 970.549.4504</p></div>	Drawing Title Phasing Plan	Project Title Eliminate Domestic Dead End Water Lines	Project Number #575-14-828	Office of Construction and Facilities Management  Department of Veterans Affairs
						Approved Project Director John Bartman Phone: 970.242.0731	Location 2121 North Avenue Grand Junction, CO 81501	Building Number 1	Drawing Number G1.2	
							Date Jan, 2015	Checked JLE	Drawn SMN	



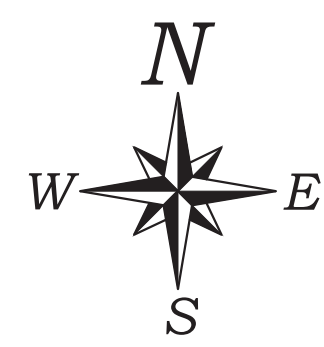
three inches = one foot  
one and one half inches = one foot  
one inch = one foot  
three quarters inch = one foot  
one half inch = one foot  
three eighths inch = one foot  
one quarter inch = one foot  
one eighth inch = one foot

Bill  
02/20/15  
1-26-15  
PCD Drawings  
Plumbing  
VAGJ-B1-P1.0-BASMENT.dwg

Revisions  
Date



BASEMENT PLUMBING PLAN  
3/32" = 1'-0"



### GENERAL NOTES:

- FOLLOWING THE REMOVAL OF DESIGNATED ITEMS OR INSTALLATION OF NEW ITEMS, THE CONTRACTOR SHALL MAKE ANY NECESSARY REPAIRS TO RESTORE AFFECTED AREAS TO MATCH ADJACENT SURFACES TO THE MAXIMUM EXTENT POSSIBLE. THIS INCLUDES, BUT IS NOT LIMITED TO, REPLACING DAMAGED OR MISSING PIPE INSULATION, PATCHING AND PAINTING DAMAGED WALLS, AND ANY OTHER INCIDENTAL WORK REQUIRED TO RESTORE AREAS TO MATCH ADJACENT SURFACES. THIS WORK INCLUDES REPAIRING PENETRATIONS THROUGH SMOKE AND FIRE BARRIERS LEFT OPEN BY REMOVED ITEMS. THESE AREAS SHALL BE REPAIRED TO MEET THE APPLICABLE VA STANDARDS.

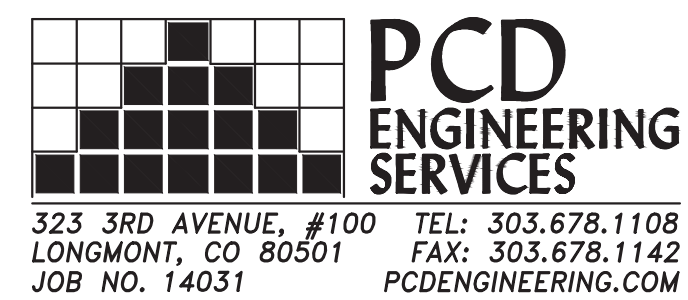
### DEMOLITION NOTES:

- REMOVE EXISTING PIPING BACK TO ISOLATION VALVE AS SHOWN AND CAP.
- REMOVE CAPPED PIPING BACK TO POINT SHOWN TO WITHIN 1'-0" OF EXISTING MAIN. PROVIDE NEW ISOLATION BALL VALVE AND CAP.
- REMOVE EXISTING 1-1/2" GALVANIZED CW RISER IN ITS ENTIRETY FROM THE END POINT OF THE GALVANIZED RISER IN THE CRAWLSPACE AND UP THROUGH THE FIRST FLOOR AND REPLACE WITH NEW 1-1/2" COPPER PIPE.

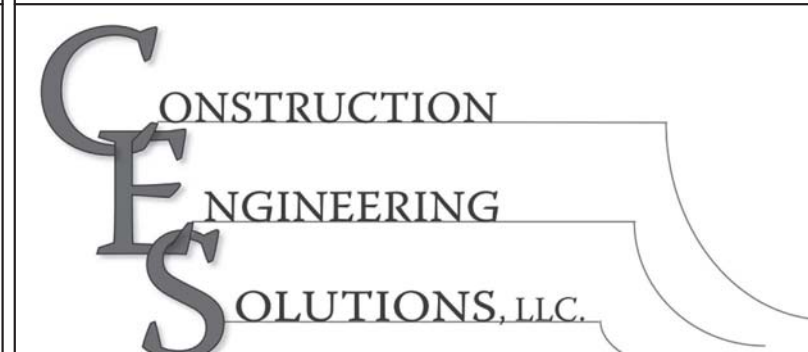
### NEW WORK NOTES:

- FOR ENLARGED SCALE PLAN OF NEW CIRCULATING PUMP INSTALLATION SEE SHEET P2.0.
- PROVIDE NEW BALANCING VALVE IN EXISTING HOT WATER CIRCULATING PIPING. BALANCE TO GPM AS NOTED.
- PROVIDE NEW ISOLATION VALVE IN EXISTING PIPING AS SHOWN.

### CONSULTANTS:



### ARCHITECT/ENGINEERS:



715 Roundup Drive  
Grand Junction, Colorado 81507  
970.549.4504

### Drawing Title

BASEMENT PLUMBING PLAN

Approved Project Director  
JOHN BARTMAN  
PHONE: 970-242-0731

### Project Title

Eliminate Domestic Dead End Water Lines

Location  
VAMC Grand Junction

Date  
Jan, 2015

Checked  
JLE

Drawn  
SMN

Project Number  
575-14-828

Building Number  
1

Drawing Number  
P1.0

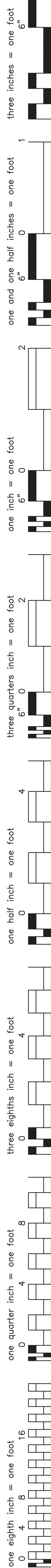
Dwg. 4 of 10

Office of  
Construction  
and Facilities  
Management



Scale: 3/32" = 1'-0"




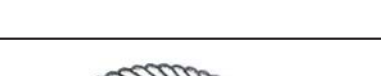


1. FOLLOWING THE REMOVAL OF DESIGNATED ITEMS OR INSTALLATION OF NEW ITEMS, THE CONTRACTOR SHALL MAKE ANY NECESSARY REPAIRS TO RESTORE AFFECTED AREAS TO MATCH ADJACENT SURFACES. REPAIRS SHALL BE TO THE MAXIMUM EXTENT POSSIBLE. THIS INCLUDES, BUT IS NOT LIMITED TO, INSTALLING NEW CEILING TILES TO MATCH EXISTING TILES, RECONFIGURING AND/OR REPLACING SUSPENDED CEILING SUPPORTS AND FRAMES, REPLACING DAMAGED OR MISSING PARTS OF THE INSULATION, REPAIRING OR REPLACING WALLS, AND ANY OTHER INCIDENTAL WORK REQUIRED TO RESTORE AREAS TO MATCH ADJACENT SURFACES. THIS WORK INCLUDES REPAIRING PENETRATIONS THROUGH SMOKE AND FIRE CHIMNEYS LEFT OPEN BY REMOVED ITEMS. THESE AREAS SHALL BE REPAIRED TO MEET THE APPLICABLE VA STANDARDS.

- A. REMOVE EXISTING HW AND CW PIPING AS SHOWN. FIELD VERIFY THAT PIPING IS ABANDONED PRIOR TO REMOVAL. CAP PIPING AT POINT SHOWN.
- B. REMOVE EXISTING CW & HW PIPING BACK TO EXISTING ISOLATION VALVES AS SHOWN AND CAP.
- C. REMOVE EXISTING 1-1/2" GALVANIZED CW RISER BETWEEN THE BASEMENT AND FIRST FLOOR AND REPLACE WITH NEW 1-1/2" COPPER PIPE.
- D. REMOVE EXISTING 1-1/2" GALVANIZED CW PIPING IN ITS ENTIRETY BETWEEN THE FIRST FLOOR CEILING AND THE SECOND FLOOR AND REPLACE WITH NEW 1-1/2" COPPER PIPE. CONNECT TO EXISTING COPPER PIPING AT EACH END.
- E. REMOVE EXISTING CONNECTION BETWEEN HW AND HWC PIPING. CAP REMAINING TAPS AT HW AND HWC PIPING.

1. NEW 1/2" HWC PIPING CONNECTED TO EXISTING BRANCH PIPING AS SHOWN. ROUTE TO EXISTING HWC PIPING AND CONNECT.



-	-	CONSULTANTS:	<div><div><b>PCD</b> ENGINEERING SERVICES</div><div>323 3RD AVENUE, #100 TEL: 303.678.1108 LONGMONT, CO 80501 FAX: 303.678.1142 JOB NO. 14031 PCDENGINEERING.COM</div></div>	<div><div><b>CES</b> CONSTRUCTION ENGINEERING SOLUTIONS, LLC.</div><div>715 Roundup Drive Grand Junction, Colorado 81507 970.549.4504</div></div>	Drawing Title FIRST FLOOR PLUMBING PLAN	Project Title Eliminate Domestic Dead End Water Lines	Project Number 575-14-828	Office of Construction and Facilities Management
-	-				Buidling Number 1			
-	-				Drawing Number P1.1	Department of Veterans Affairs		
-	-				Dwg 5 of 10			
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Revisions:	Date							









1. FOLLOWING THE REMOVAL OF DESIGNATED ITEMS OR INSTALLATION OF NEW ITEMS, THE CONTRACTOR SHALL MAKE ANY NECESSARY REPAIRS TO RESTORE AFFECTED AREAS TO MATCH ADJACENT AREAS TO THE MAXIMUM EXTENT POSSIBLE. THIS INCLUDES, BUT IS NOT LIMITED TO, INSTALLING NEW CEILING TILES TO MATCH EXISTING TILES, RECONFIGURING AND/OR REPLACING SUSPENDED CEILING SUPPORTS AND FRAMES, REPLACING DAMAGED OR MISSING WALL PANELS, REPAIRING OR REPLACING DAMAGED WALLS, AND ANY OTHER INCIDENTAL WORK REQUIRED TO RESTORE AREAS TO MATCH ADJACENT SURFACES. THIS WORK INCLUDES REPAIRING PENETRATIONS THROUGH SMOKE AND FIRE ALARMS LEFT OPEN BY REMOVED ITEMS. THESE AREAS SHALL BE REPAIRED TO MEET THE APPLICABLE VA STANDARDS.

- A. REMOVE EXISTING CAPPED CW AND HW PIPING AS SHOWN AND CAP.
- B. REMOVE EXISTING CW AND HW PIPING ABANDONED AFTER RESTROOM REMODEL. CAP AT MAINS AS SHOWN.
- C. REMOVE EXISTING 1-1/2" GALVANIZED CW RISER PIPING IN ITS ENTIRETY BETWEEN THE SECOND AND THIRD FLOOR AND REPLACE WITH NEW 1-1/2" COPPER PIPE. CONNECT TO EXISTING 1-1/2" COPPER PIPING ON BOTH FLOORS.
- D. REMOVE EXISTING 2" GALVANIZED CW RISER PIPING IN ITS ENTIRETY BETWEEN THE SECOND AND FIFTH FLOORS AND REPLACE WITH NEW COPPER PIPE. CONNECT TO EXISTING CW COPPER PIPING ON ALL FLOORS.
- E. REMOVE EXISTING GALVANIZED CW PIPING FEEDING TOILET, URINAL, AND DRINKING FOUNTAIN ON THE FOURTH FLOOR IN ITS ENTIRETY. REPLACE WITH NEW COPPER PIPE AND CONNECT TO EXISTING.
- F. REMOVE EXISTING 1-1/2" GALVANIZED CW PIPING IN ITS ENTIRETY BETWEEN THE THIRD AND FOURTH FLOOR AND REPLACE WITH NEW 1-1/2" COPPER PIPE. CONNECT TO EXISTING 1-1/2" COPPER PIPING ON BOTH FLOORS.
- G. REMOVE EXISTING CONNECTION BETWEEN HW AND HWC PIPING. CAP REMAINING TAPS AT HW AND HWC PIPING.

1. NEW 1/2" HWC PIPING CONNECTED TO EXISTING BRANCH PIPING AS SHOWN. ROUTE TO EXISTING HWC PIPING AND CONNECT.
2. NEW BALANCING VALVE AND BALL-TYPE ISOLATION VALVE IN EXISTING HWC PIPING. BALANCE TO FLOW SHOWN.
3. NEW BALANCING VALVE IN EXISTING HWC PIPING. BALANCE TO FLOW SHOWN.

VA FORM 08-6231									
1	2	3	4	5	6	7	8	9	





1. FOLLOWING THE REMOVAL OF DESIGNATED ITEMS OR INSTALLATION OF NEW ITEMS, THE CONTRACTOR SHALL MAKE ANY NECESSARY REPAIRS TO RESTORE AFFECTED AREAS TO MATCH ADJACENT SURFACES. TO THE MAXIMUM EXTENT POSSIBLE, THIS INCLUDES, BUT IS NOT LIMITED TO, INSTALLING NEW CEILING TILES TO MATCH EXISTING TILES, RECONFIGURING AND/OR REPLACING SUSPENDED CEILING SUPPORTS AND FRAMES, REPLACING DAMAGED OR MISSING PARTS OF THE INSULATION SYSTEM, REPAIRING CRACKS IN WALLS, AND ANY OTHER INCIDENTAL WORK REQUIRED TO RESTORE AREAS TO MATCH ADJACENT SURFACES. THIS WORK INCLUDES REPAIRING PENETRATIONS THROUGH SMOKE AND FIRE BARRIERS LEFT OPEN BY REMOVED ITEMS. THESE AREAS SHALL BE REPAIRED TO MEET THE APPLICABLE VA STANDARDS.

- A. REMOVE EXISTING CAPPED CW PIPING BACK TO MAIN AS SHOWN AND CAP.
- B. REMOVE EXISTING CAPPED HW PIPING BACK TO MAIN AS SHOWN AND CAP.
- C. REMOVE EXISTING 1-1/2" GALVANIZED CW PIPING BETWEEN THE THIRD AND FOURTH FLOOR AND REPLACE WITH NEW 1-1/2" COPPER PIPE. CONNECT TO EXISTING 1-1/2" COPPER PIPING ON BOTH FLOORS.
- D. REMOVE EXISTING CONNECTION BETWEEN HW AND HWC PIPING. CAP REMAINING TAPS AT HW AND HWC PIPING.

1. NEW 1/2" HWC PIPING CONNECTED TO EXISTING BRANCH PIPING AS SHOWN. ROUTE TO EXISTING HWC PIPING AND CONNECT.
2. NEW BALANCING VALVE AND BALL-TYPE ISOLATION VALVE IN NEW 1/2" HWC PIPING. BALANCE TO FLOW SHOWN.

Scale: AS SHOWN







FOLLOWING THE REMOVAL OF DESIGNATED ITEMS OR INSTALLATION OF NEW ITEMS, THE CONTRACTOR SHALL MAKE ANY NECESSARY REPAIRS TO RESTORE AFFECTED AREAS TO MATCH EXISTING SURFACES. THE CONTRACTOR SHALL, TO THE EXTENT POSSIBLE, THIS INCLUDES, BUT IS NOT LIMITED TO, INSTALLING NEW CEILING TILES TO MATCH EXISTING TILES, RECONFIGURING AND/OR REPLACING SUSPENDED CEILING SUPPORTS AND FRAMES, REPLACING DAMAGED OR MISSING WALLS, PARTITIONS, AND/OR CEILING PANELS, REPAIRING WALLS, AND ANY OTHER INCIDENTAL WORK REQUIRED TO RESTORE AREAS TO MATCH ADJACENT SURFACES. THIS WORK INCLUDES REPAIRING PENETRATIONS THROUGH SMOKE AND FIRE BARRIERS LEFT OPEN BY REMOVED ITEMS. AREAS SHALL BE REPAIRED TO MEET THE APPLICABLE V.A. STANDARDS.

- A. REMOVE EXISTING CONNECTION BETWEEN HW AND HWC PIPING. CAP OPENING ON HW PIPE. TEMPORARILY CAP HWC PIPING FOR FUTURE RECONNECTION.
- B. REMOVE EXISTING HW PIPING BACK TO MAIN AS SHOWN AND CAP.
- C. REMOVE EXISTING ABANDONED CW PIPING BACK TO MAIN AS SHOWN AND CAP.
- D. REMOVE DUPLICATE HWC PIPING CONNECTIONS TO HW PIPING AS SHOWN. CAP UN-USED PIPE AS SHOWN. TEMPORARILY CAP PIPING THAT WILL BE RE-USED AS SHOWN AND NOTED UNDER NEW WORK.
- E. REMOVE EXISTING CONNECTION BETWEEN HW AND HWC PIPING. CAP REMAINING TAPS AT HW AND HWC PIPING.

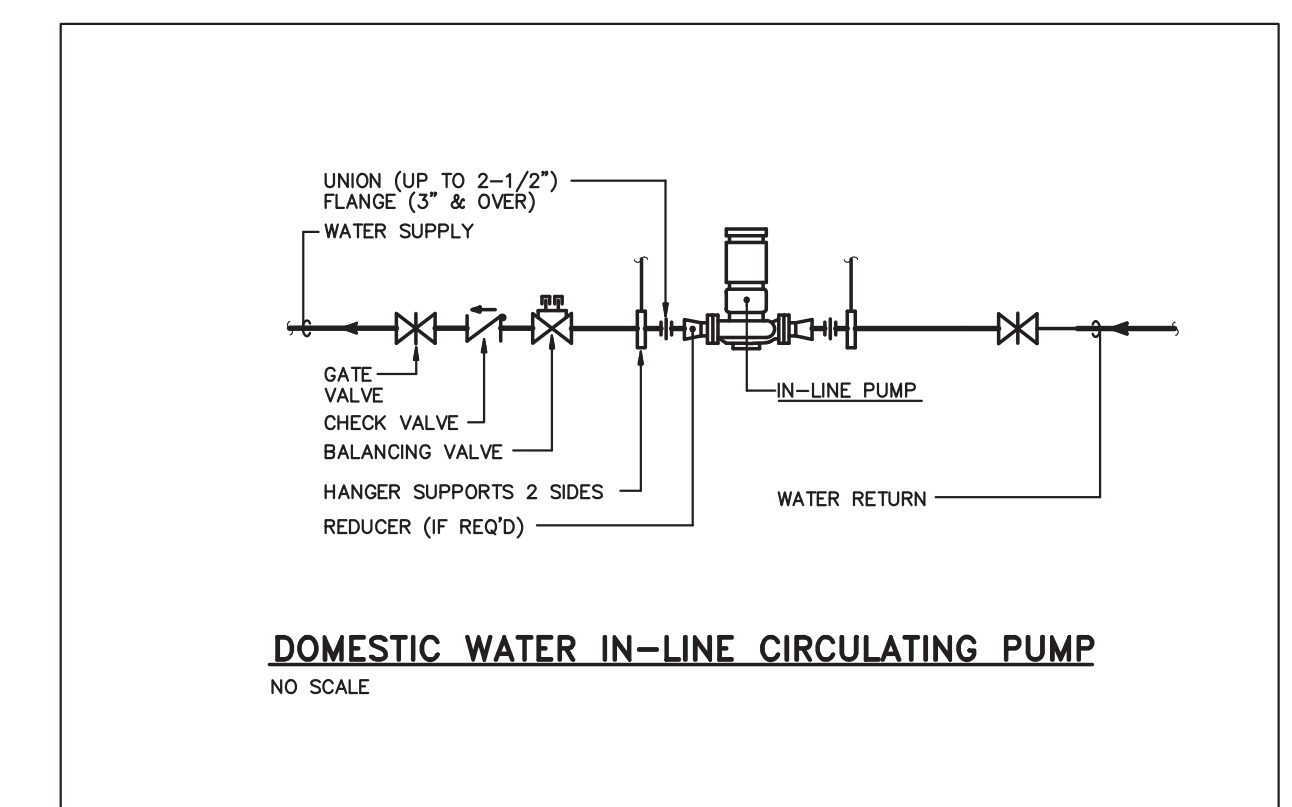

NEW 1/2" HWC PIPING CONNECTED TO EXISTING BRANCH  
PIPING AS SHOWN. ROUTE TO EXISTING HWC PIPING AND  
CONNECT.

	-	<b>CONSULTANTS:</b>	<div><div><b>PCD ENGINEERING SERVICES</b></div><div>323 3RD AVENUE, #100 TEL: 303.678.1108 LONGMONT, CO 80501 FAX: 303.678.1142 JOB NO. PCDENGINEERING.COM</div></div>	<div></div>	<b>ARCHITECT/ENGINEERS:</b>	<div><div><div>CES</div><div>CONSTRUCTION ENGINEERING SOLUTIONS, L.L.C.</div></div><div>715 Roundup Drive Grand Junction, Colorado 81507 970.569.4504</div></div>	Drawing Title	Project Title	Project Number	Office of Construction and Facilities Management	
	FIFTH FLOOR PLUMBING PLAN						Eliminate Domestic Dead End Water Lines	575-14-828			
								Building Number			
								1			
							Location	Drawing Number			
							YAMC Grand Junction CO	P1.5			
							Date	Checked	Drawn		Dwg. 9 of 10
							Jan, 2015	JLE	SMM		
Revisions:	Date										






1. INSTALL NEW DOMESTIC WATER CIRCULATING PUMP IN THIS LOCATION. SEE DETAIL THIS SHEET FOR INSTALLATION REQUIREMENTS. CONNECT TO EXISTING PIPING AS SHOWN
2. PROVIDE BYPASS AROUND NEW PUMP FOR MAINTENANCE REQUIREMENTS. BYPASS PIPING FULL LINE SIZE.
3. PROVIDE VALVE IN EXISTING PIPING TO ISOLATE PIPING SYSTEMS AND PROVIDE EMERGENCY BYPASS IN THE EVENT OF PUMP FAILURE.
4. NEW PUMPS TO BE INSTALLED PER DIVISION 22 SPECIFICATIONS. CONNECT TO EXISTING CIRCUIT (PANEL 1E00B CIRCUIT #13) AT EXISTING JUNCTION BOX AND UPDATE PANEL SCHEDULE TO REFLECT NEW LOADS.

[illegible][illegible]

**PCD  
ENGINEERING  
SERVICES**

323 3RD AVENUE, #100  
LONGMONT, CO 80501  
JOB NO. 14031

TEL: 303.678.1108  
FAX: 303.678.1142  
PCDENGINEERING.COM



CES  
CONSTRUCTION  
ENGINEERING  
SOLUTIONS, LLC



Department of  
Veterans Affairs