

WATER SYSTEM RELOCATION PHASING NOTES

GENERAL NOTE:

THIS PLAN AND THE FOLLOWING NOTES REPRESENT A SIMPLIFIED CONCEPT OF HOW THE CAMPUS WATER SYSTEM MAY BE PHASED INTO CONSTRUCTION WITH LIMITED SERVICE INTERRUPTIONS. IT IS NOT INTENDED TO DICTATE THE CONTRACTOR'S MEANS AND METHODS, NOR SHOULD IT BE ASSUMED TO BE A COMPLETE AND ACCURATE DEPICTION OF THE CAMPUS WATER SYSTEM. THE PLAN IS COMPOSED OF A COMBINATION OF SURVEY INFORMATION AND CAMPUS SYSTEM SCHEMATICS PROVIDED BY THE VA. TO THE EXTENT NECESSARY TO PERFORM THE RELOCATIONS PROVIDED IN THE DRAWINGS, THE CONTRACTOR SHALL INVESTIGATE THE SITE AND THE WATER SYSTEM PLAN AS NECESSARY TO COMPLETE THE WORK IN THIS CONTRACT.

UTILIZING THE CONTRACTOR'S OWN RESEARCH AND THE CONCEPT REPRESENTED IN THIS PLAN, THE CONTRACTOR SHALL PREPARE UTILITY AND WATER SYSTEM PHASING PLAN TO COMPLETE THE WATER, SEWER AND STORM DRAINAGE RELOCATIONS REQUIRED IN THE CONTRACT DOCUMENTS. AS A MINIMUM, THE PLAN SHALL ALLOW FOR THE FOLLOWING:

A. UNINTERRUPTED SERVICE TO BUILDING 106.

B.UNINTERRUPTED SERVICE TO BUILDINGS 6, 4, 22, 101 AND 1

C. LIMITED SERVICE INTERRUPTIONS TO BUILDINGS 20, 225, 234, 105 AND 107. SERVICE INTERRUPTIONS TO THESE BUILDINGS WILL BE LIMITED TO THE MINIMUM TIME NECESSARY TO RELOCATE UTILITIES AND RETURN TO SERVICE. INTERRUPTIONS SHALL OCCUR ON NIGHTS AND WEEKENDS AND NOT DURING NORMAL WORKING HOURS.

D. FOR ANY NECESSARY SCHEDULED INTERRUPTIONS CONTRACTOR SHALL PROVIDE TWO WEEKS MINIMUM NOTICE, COMPLETE AND SUBMIT ADVANCED NOTIFICATION AS DESCRIBED IN ITEM #2 BELOW.

1. OPEN THIS VALVE AND VALVE AT 20 IN ORDER TO ENERGIZE PERIMETER LOOP FROM THE PUBLIC WATER SUPPLY.

2. CLOSE THIS VALVE TO SHUT DOWN THE WATER SYSTEM IN THE AREA OF THE NEW BOILER. THIS WILL ALSO SHUT DOWN WATER SERVICE TO BUILDING 20. PRIOR TO ANY INTERRUPTION OF SERVICE, CONTRACTOR SHALL COMPLETE AND SUBMIT ADVANCED NOTIFICATION SHUT OFF FORM #0100000. THIS FORM IS FOUND DIVISION ONE OF THE PROJECT SPECIFICATIONS AND MUST BE SUBMITTED AND APPROVED IN WRITING PRIOR TO ANY UTILITY SHUT DOWN.

3. A 12" VALVE IN THIS LOCATION SHALL BE INSTALLED EARLY IN THE UTILITY RELOCATION PROCESS. ONCE THAT VALVE IS INSTALLED IT CAN BE CLOSED AND VALVE #2 OPENED TO RETURN SERVICE TO BUILDING #20.

4. THESE TWO TEES, REDUCERS AND GATE VALVES SHALL BE PREASSEMBLED WITH THE 12" VALVE DESCRIBED IN NOTE #3 SO THAT IT MAY BE INSTALLED IN THAT SECTION OF LINE AS A PREMADE ASSEMBLY FOR EXPEDIENCY, ALLOWING THAT PART OF LOOP TO BE REACTIVATED AS EARLY AS POSSIBLE.

5. IMMEDIATELY FOLLOWING THE INSTALLATION OF 4 ABOVE, BEGIN THE RELOCATION OF THE WATER LINE AROUND THE PROPOSED BOILER. BEGIN WITH THIS SECTION OF LINE TO AND INCLUDING TEE IN THESE TWO VALVES. ONCE THESE VALVES IN THIS SECTION OF WATER LINE ARE INSTALLED, CLOSE THE 12" VALVE, OPEN THE 4" VALVE TO RETURN SERVICE TO BUILDING 105. DURING THE INITIAL INSTALLATION OF THIS SECTION OF THE LOOP, BUILDING 1 WILL BE TAKEN OUT OF SERVICE. ADVANCED NOTIFICATION AND APPROVAL IS REQUIRED AS DESCRIBED IN NOTE 2 ABOVE.

6. ONCE 5 ABOVE IS COMPLETE, VERIFY SERVICE RETURNED TO BUILDING #105.

7. CONFIRM THAT THIS VALVE IS OPEN TO ENERGIZE THE CENTER PART OF THE LOOP, PRIOR TO CLOSING THE VALVES FROM THE ELEVATED STORAGE TANK, TAKING THE TANK OUT OF SERVICE.

8. THE CONTRACTOR SHALL EXCAVATE THIS CROSSING AND VERIFY WHETHER THE LINES CONNECT OR CROSS INDEPENDENTLY. FOR THE PURPOSES OF THE BID, THE CONTRACTOR SHALL ASSUME THESE LINES CROSS INDEPENDENTLY AND SHALL PROVIDE A 6" V LAP AND TWO VALVES AS INDICATED TO CROSS CONNECT THESE LINES. THIS SHALL OCCUR PRIOR TO CLOSING ANY LOOP VALVE ORDER TO MAINTAIN SERVICE TO BUILDINGS 6, 4, 22, 101 AND IF LINES ARE FOUND TO CONNECT IN THEIR EXISTING CONDITION, THE CONTRACTOR WILL CREDIT THE CONTRACT FOR THE WET TAP AND INTERCONNECTION.

9. IN ORDER TO RELOCATE THIS SECTION OF LINE, VALVE #10 SHALL BE CLOSED AND THE VALVE NEST AT #12 INSTALLED. THE SUPPLY FROM THE TANK SHALL ALSO BE CLOSED OFF AT THE ALTITUDE VALVE AT 11. VERIFY THAT ALL PARTS OF THE CAMPUS ARE ACTIVE AND SERVED BEFORE TAKING THE TANK OFF LINE.

10. CLOSE THIS VALVE TO RELOCATE LINE IDENTIFIED IN 9 ABOVE. CONTRACTOR TO CONFIRM THAT SERVICE TO BUILDING 7 IS ACTIVE WITH THIS VALVE CLOSED. IF SERVICE REMAINS ACTIVE TO BUILDING 7 CONTINUE WITH RELOCATION OF WATER LINE 9. IF IT IS DETERMINED THAT CLOSING THIS VALVE INTERRUPTS SERVICE, CONTRACTOR SHALL OPEN THE VALVE, REACTIVATE SERVICE AND SUBMIT ADVANCED NOTIFICATION OF SHUT DOWN AS DESCRIBED IN NOTE 2 ABOVE.

11. THIS INDICATES THE ALTITUDE VALVE, ISOLATE THE LINES ENTERING AND LEAVING THIS VAULT AS NECESSARY TO RELOCATE WATER LINES AND VALVES. VERIFY THAT ALL CAMPUS FACILITIES ARE SERVED PRIOR TO TAKING THE ELEVATED TANK OFF LINE.

12. INSTALL THIS TEE AND VALVE NEST WHEN ABLE AFTER LINE HAVE BEEN ISOLATED AND BUILDINGS HAVE BEEN VERIFIED TO RE SERVICE. THE SOUTHWEST VALVE IN THIS NEST WILL BE CLOSED AND REMAIN CLOSED DURING SUBSEQUENT RELOCATION. NORTH AND SOUTHEAST VALVES WILL BE OPENED IN ORDER TO MAINTAIN CIRCULATION WITHIN THE LOOP.

13. CLOSE THESE TWO VALVES TEMPORARILY TO ISOLATE THE C. AT 14. OPEN AS SOON AS EXTENSION THROUGH FIRST VALVE A 14 IS COMPLETE. VERIFY THAT CLOSING THESE TWO VALVES DOES NOT INTERRUPT SERVICE TO ANY BUILDINGS.

14. WITH VALVES 13A AND 13B CLOSED, REMOVE CAP, EXTEND WATER LINE UNDER SIDE WALK WITH APPROPRIATE REDUCERS FOR 6" DIP WATERLINE. ADD 6" WATER VALVE AND IMMEDIATELY CLOSE THAT VALVE IN ORDER TO REOPEN VALVES 13A AND 13B AND RE-ENERGIZE THE LOOP.

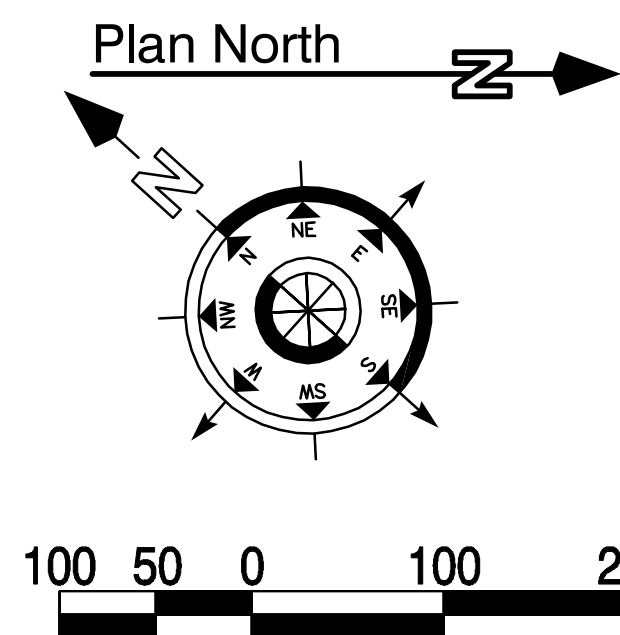
15. CONTINUE WATER LINE EXTENSION FROM 14 WITH 6" DIP PROVIDING SERVICE TO THE BUILDING SIDE OF THE TWO SERVICE VALVES AT BUILDING 106. WET TAP THE TWO SERVICE LINES WHEN INDICATED. OPEN ALL VALVES IN THIS BYPASS AND VERIFY SERVICE TO BUILDING 106 LATERALS.

16. ONCE SERVICE TO BUILDING 106 IS CONFIRMED, CLOSE THE TWO VALVES.

17. CLOSE VALVE 17, 13A AND 18 IN ORDER TO INSTALL VALVE NEST AT 12. THIS ACTIVITY WILL HAVE TO BE SCHEDULED ON WEEKENDS OR NIGHTS DURING NON-WORKING HOURS. SERVICE MAY BE INTERRUPTED TEMPORARILY TO BUILDING 7. INSTALL VALVE NEST AT 12 AS EXPEDITIOUSLY AS POSSIBLE IN ORDER TO RETURN SERVICE TO THE LOOP. DURING THE CLOSURE OF VALVES 17, 13A AND 18, CONTRACTOR TO PROVIDE FIRE WATCH AS HYDRANT 1 WILL BE OUT OF SERVICE.

19. CLOSE DOWN APPROPRIATE PORTIONS OF THE LOOP IN ORDER TO RELOCATE THIS CHECK VALVE. THIS SHOULD BE DONE WHILE THE TANK IS OFF LINE OR ISOLATED AND SERVICE MAINTAINED FROM THE PUBLIC SUPPLY.

20. OPEN OR VERIFY THAT THIS VALVE IS OPEN IN ORDER TO ENERGIZE THE NORTHWEST PORTION OF THE LOOP FROM THE PU WATER SUPPLY.

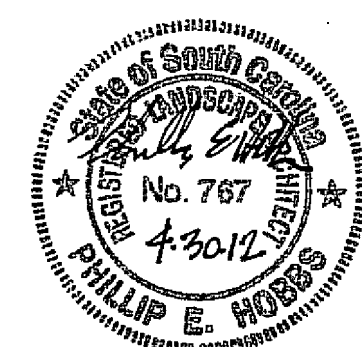


SITE ENLARGEMENT - Scale: 1"=50'

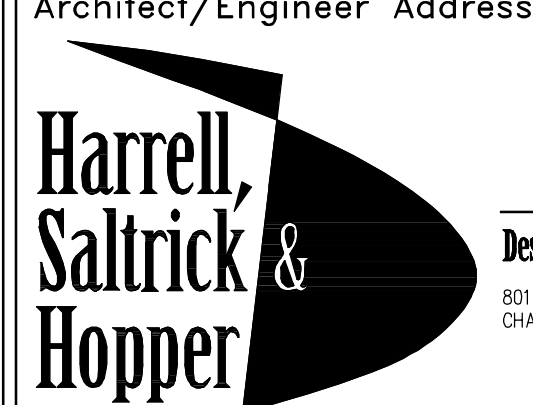
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Recommended Approvals:	
1. MEDICAL DIRECTOR	6. OPERATIONS SERVICE LINE MANAGER
2. ASSOCIATE DIRECTOR	7. INFECTION CONTROL MANAGER
3. CHIEF OF STAFF	8. SAFETY MANAGER
4. ASSOC. DIRECTOR	9. GENERAL ENGINEER
5. SERVICE LINE MGRS.	10. COTR

Drawing Title	UTILITY PHASING PLAN
	★ BUILDING IS FULLY SPRINKLERED ★

Project Title REPLACE BOILER PLANT/ COGEN/CHP		
Drawn	Building Number 21	AutoCAD File Name
Checked	Reviewed	Const. Contract N

Date	April 30, 2012
Project Number	544-11-101
DRAWING No.	GS006

100% CONSTRUCTION DOCUMENTS