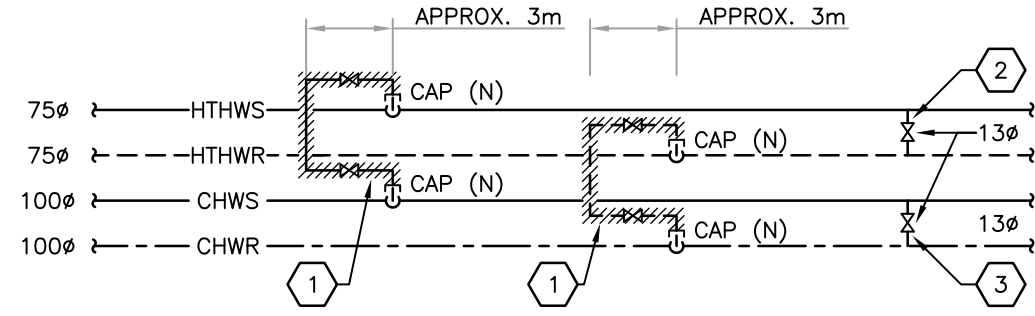


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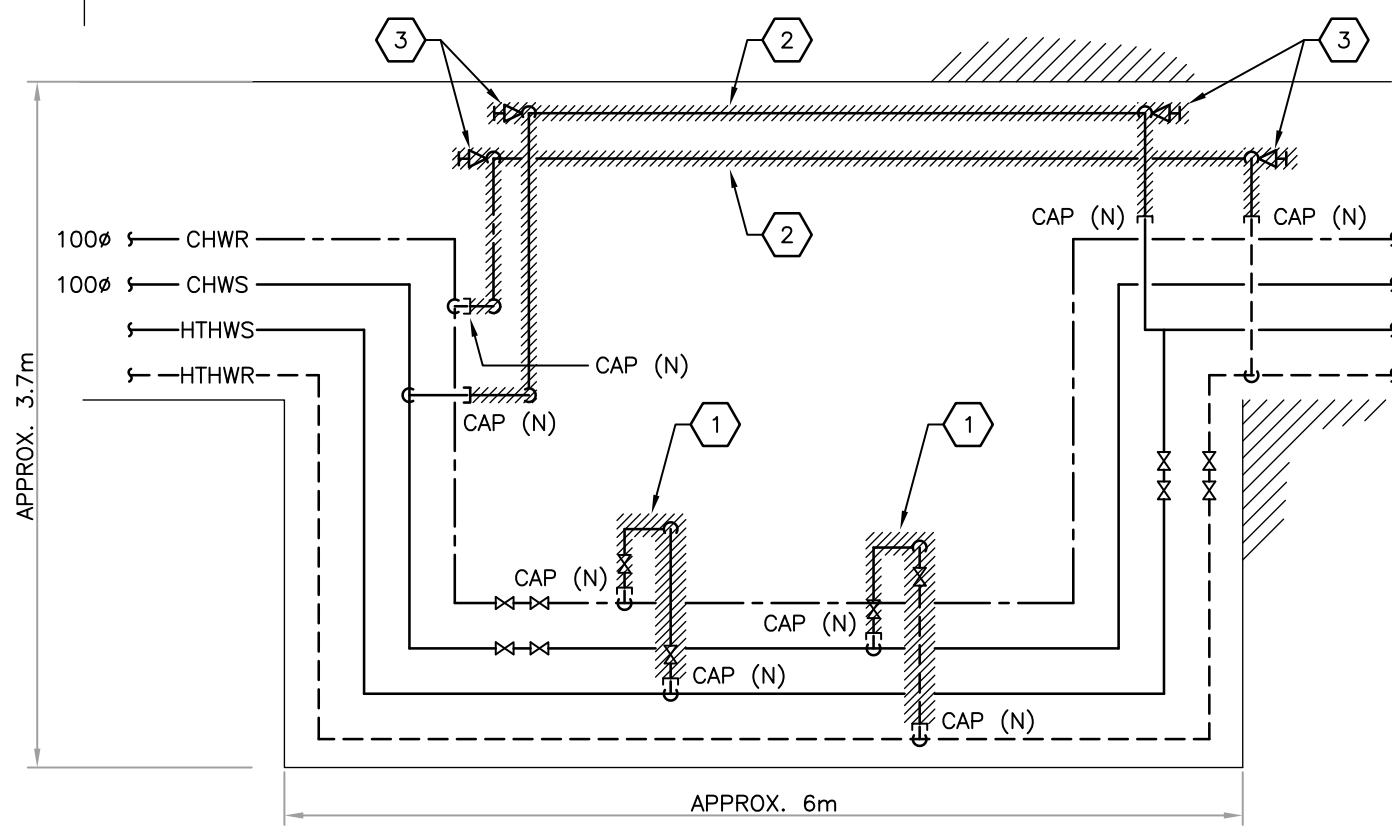


DETAIL NOTES

- 1 REMOVE EXISTING 65# CROSSOVER CONNECTION, C/W ALL HANGERS AND ACCESSORIES. PROVIDE NEW CAPS AT MAIN AND THERMALLY INSULATE.
- 2 THERMALLY INSULATE EXISTING 13# HTHWS/R RECIRCULATION CONNECTION.
- 3 REMOVE EXISTING 13# CHWS/R RECIRCULATION CONNECTIONS. PROVIDE NEW 25# CHWS/R RECIRCULATION CONNECTION, C/W NEW GATE VALVE FOR ISOLATION VALVE, NEW GLOBE VALVE FOR THROTTLING, AND NEW THERMAL INSULATION.

1
M-03
BRANCH TUNNEL #1 – CROSSOVER REMOVALS
N.T.S.

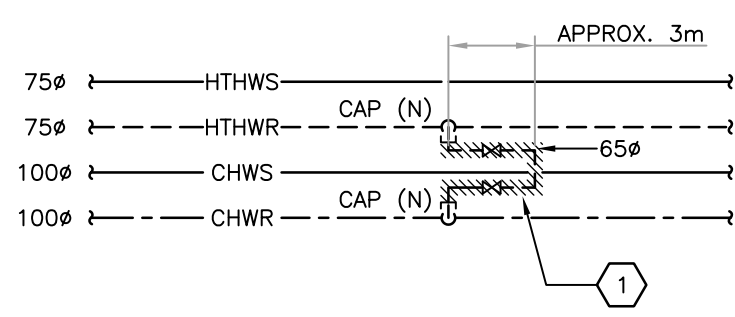
2
M-03
NOT USED
N.T.S.



DETAIL NOTES

- 1 REMOVE EXISTING 65# CROSSOVER CONNECTION, C/W ALL HANGERS AND ACCESSORIES. PROVIDE NEW CAPS AT MAIN AND THERMALLY INSULATE.
- 2 REMOVE EXISTING 100# CROSSOVER CONNECTION, C/W ALL HANGERS AND ACCESSORIES. PROVIDE NEW CAPS AT MAIN AND THERMALLY INSULATE.
- 3 EXISTING 100# CROSSOVER VALVES (TOTAL OF FOUR (4)) SHALL BE REMOVED IN GOOD CONDITION AND TURNED OVER TO OWNER FOR FUTURE USE.

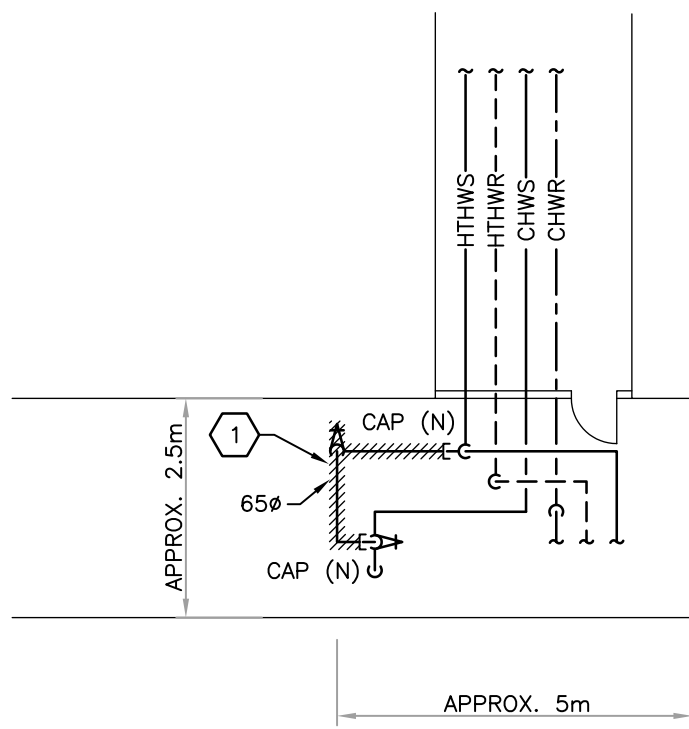
3
M-03
BRANCH TUNNEL #2 – CROSSOVER CONNECTIONS
N.T.S.



DETAIL NOTES

- 1 REMOVE EXISTING 65# CROSSOVER CONNECTION, C/W ALL HANGERS AND ACCESSORIES. PROVIDE NEW CAPS AT MAIN AND THERMALLY INSULATE.

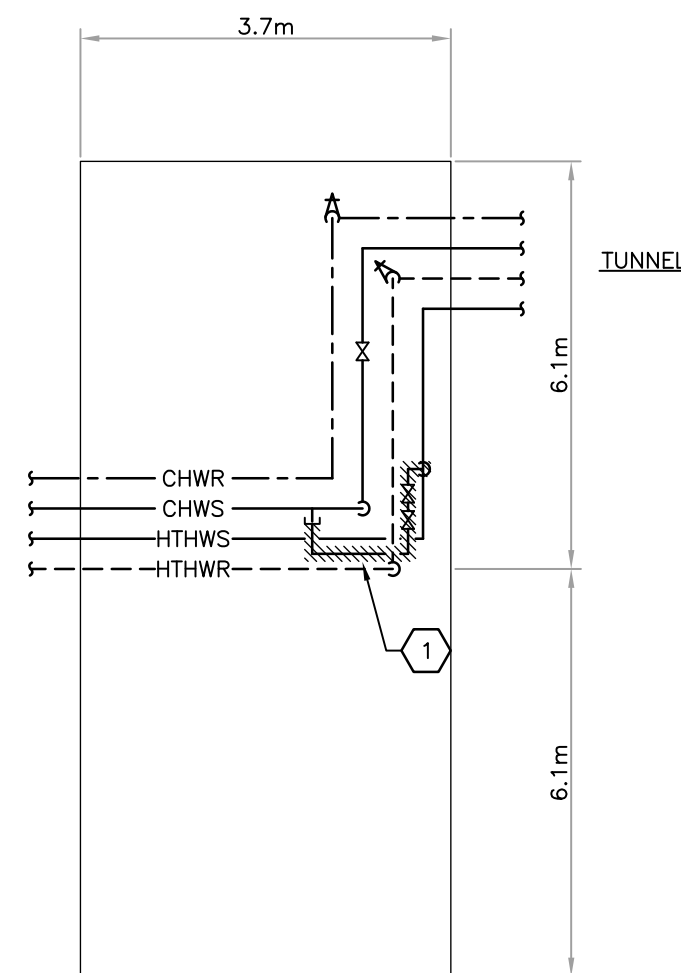
4
M-03
BRANCH TUNNEL #3 – CROSSOVER CONNECTIONS
N.T.S.



DETAIL NOTES

- 1 REMOVE EXISTING 65# CROSSOVER CONNECTION, C/W ALL HANGERS AND ACCESSORIES. PROVIDE NEW CAPS AT MAIN AND THERMALLY INSULATE.

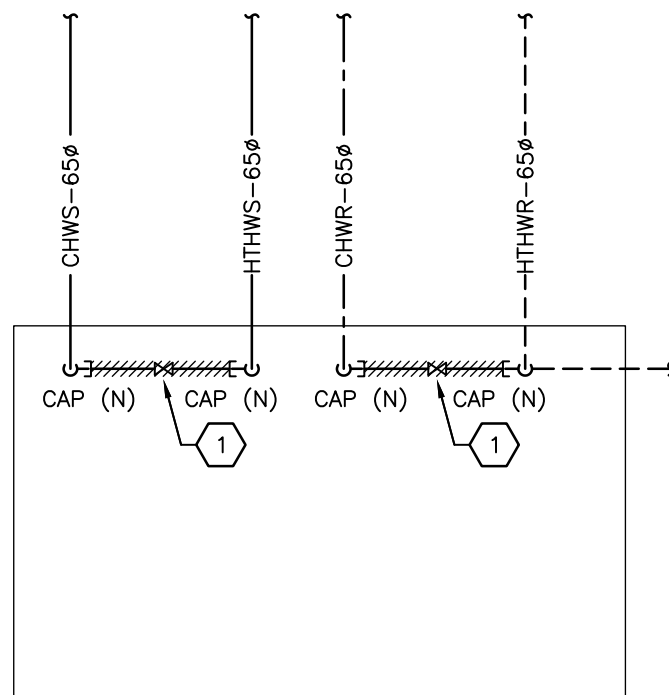
5
M-03
BRANCH TUNNEL #3 – CROSSOVER CONNECTIONS
N.T.S.



DETAIL NOTES

- 1 REMOVE EXISTING 65# CROSSOVER CONNECTION, C/W ALL HANGERS AND ACCESSORIES. PROVIDE NEW CAPS AT MAIN AND THERMALLY INSULATE.

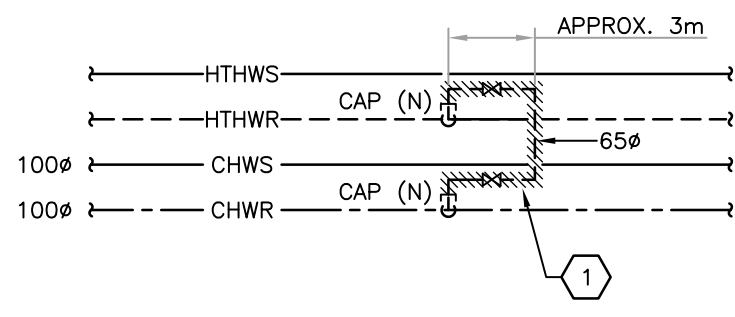
6
M-03
BRANCH TUNNEL #4 – CROSSOVER CONNECTIONS
N.T.S.



DETAIL NOTES

- 1 REMOVE EXISTING 65# CROSSOVER CONNECTION, C/W ALL HANGERS AND ACCESSORIES. PROVIDE NEW CAPS AT MAIN AND THERMALLY INSULATE. PROVIDE NEW PIPE SUPPORTS.

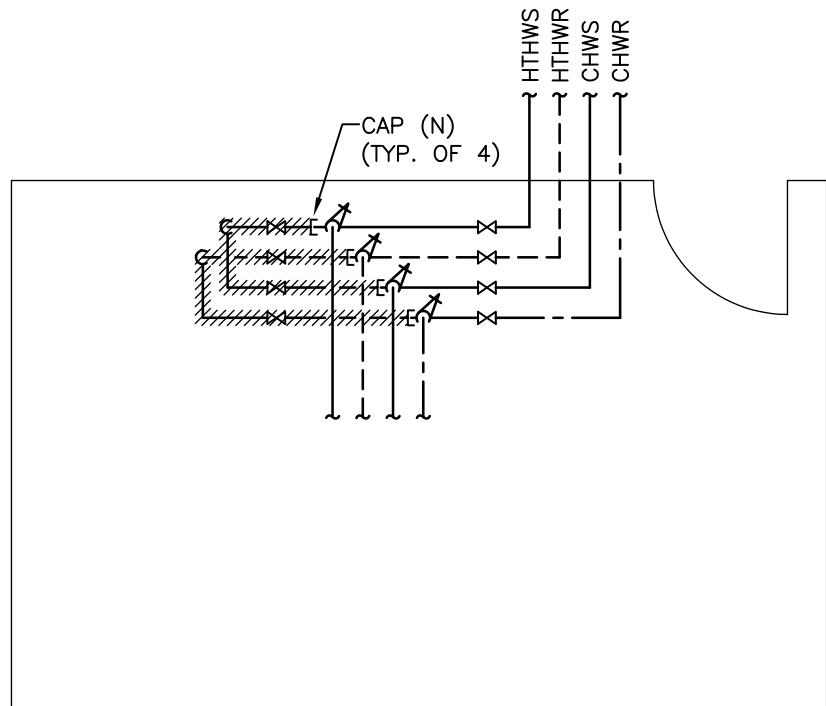
7
M-03
BRANCH TUNNEL #4 – CROSSOVER CONNECTIONS
N.T.S.



DETAIL NOTES

- 1 REMOVE EXISTING 65# CROSSOVER CONNECTION, C/W ALL HANGERS AND ACCESSORIES. PROVIDE NEW CAPS AT MAIN AND THERMALLY INSULATE.

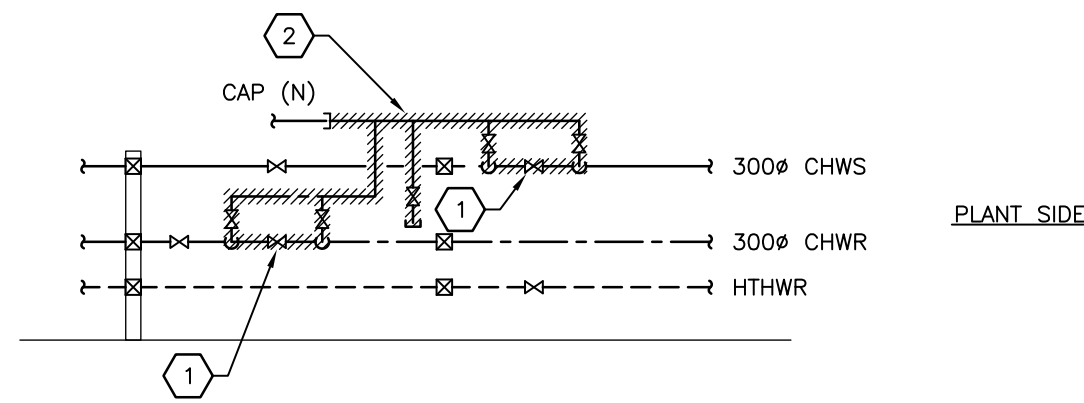
8
M-03
BRANCH TUNNEL #5 – CROSSOVER CONNECTIONS
N.T.S.



DETAIL NOTES

- 1 REMOVE EXISTING 100# CROSSOVER CONNECTIONS AS INDICATED, C/W ALL HANGERS AND ACCESSORIES. PROVIDE NEW CAPS AT VALVES & THERMAL INSULATION.

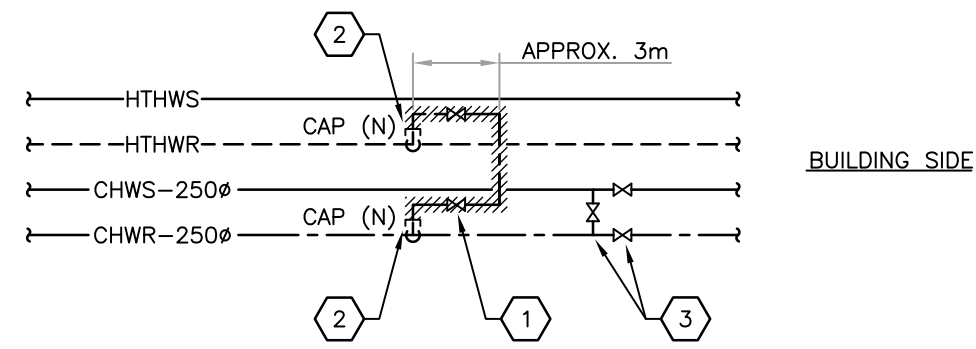
9
M-03
BRANCH TUNNEL #5 – CROSSOVER CONNECTIONS
N.T.S.



DETAIL NOTES

- 1 REMOVE EXISTING GATE VALVES AT VALVE STATION #2, C/W ASSOCIATED PIPING UP TO LINES. PROVIDE NEW SPOOL PIECE AND CONNECT TO EXISTING WATER PIPING. PROVIDE NEW THERMAL INSULATION ON EXPOSED PIPING.
- 2 REMOVE EXISTING 20# WATER PIPING BACK TO MAIN AND CAP AS INDICATED.

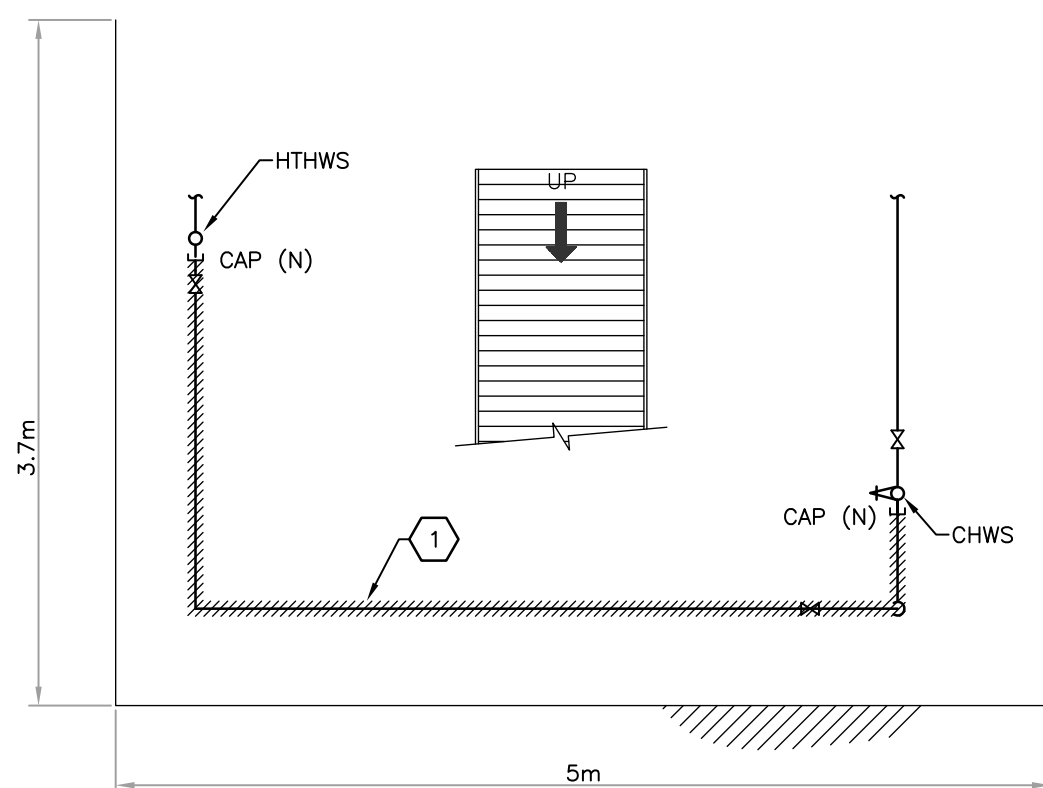
10
M-03
VALVE STATION #2 – CHILLED WATER VALVE REMOVAL
N.T.S.



DETAIL NOTES

- 1 REMOVE EXISTING 65# CROSSOVER CONNECTION AS INDICATED.
- 2 PROVIDE NEW CAP AND NEW THERMAL INSULATION.
- 3 PROVIDE NEW BUTTERFLY VALVES ON 250# CHWS AND CHWR PIPING. PROVIDE NEW 50# RECIRCULATION LINE, C/W GATE VALVE AND GLOBE VALVE. PROVIDE NEW THERMAL INSULATION ON ALL PIPING.

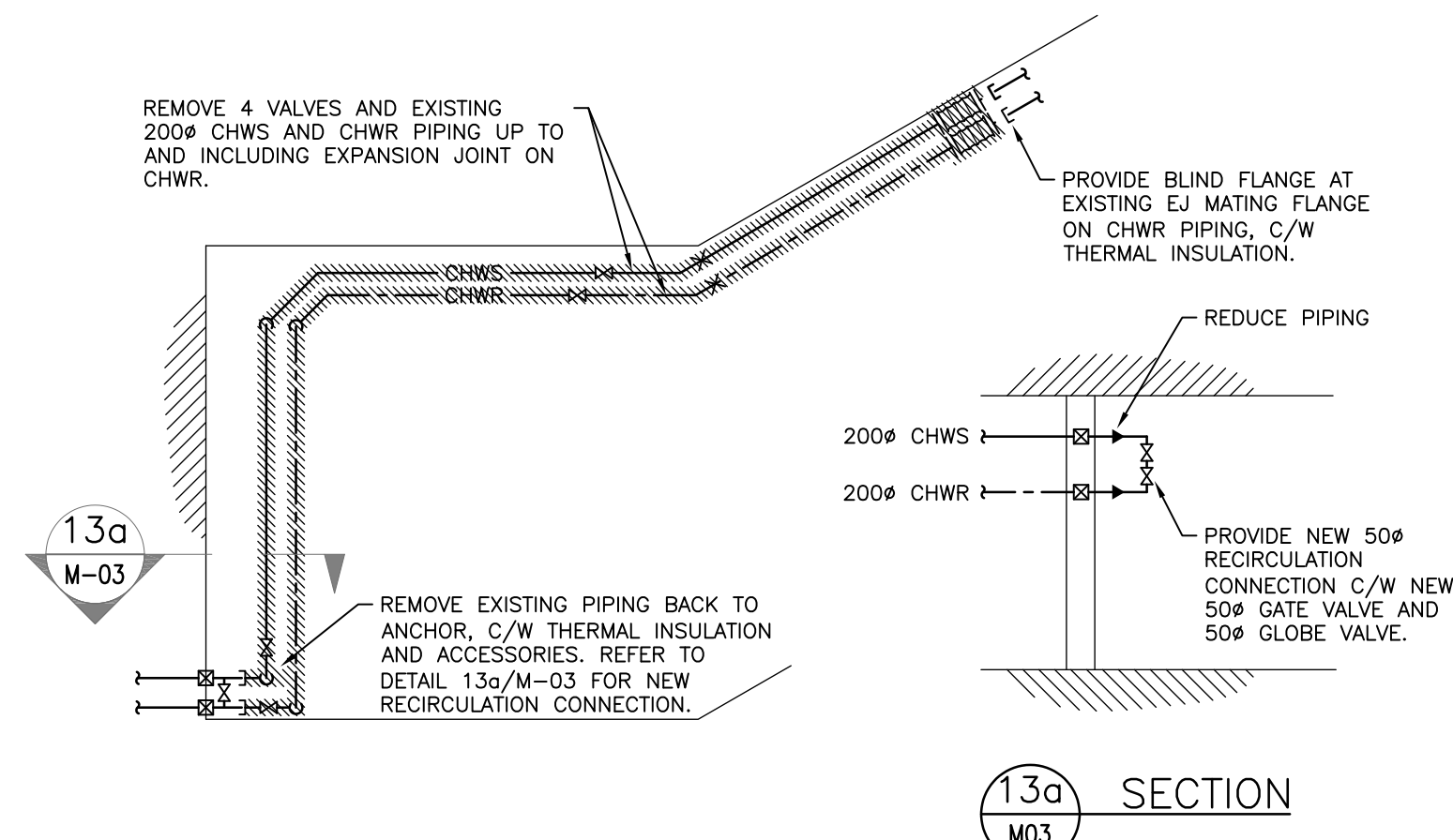
11
M-03
BRANCH TUNNEL #6 – CROSSOVER CONNECTIONS
N.T.S.



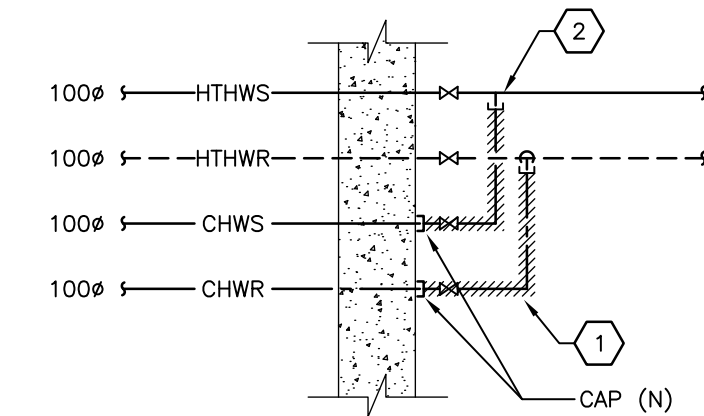
DETAIL NOTES

- 1 REMOVE EXISTING 150# CROSSOVER CONNECTION, C/W ALL HANGERS AND ACCESSORIES. PROVIDE NEW CAPS AT MAIN AND THERMALLY INSULATE.

12
M-03
BRANCH TUNNEL #9 – CROSSOVER CONNECTIONS
N.T.S.



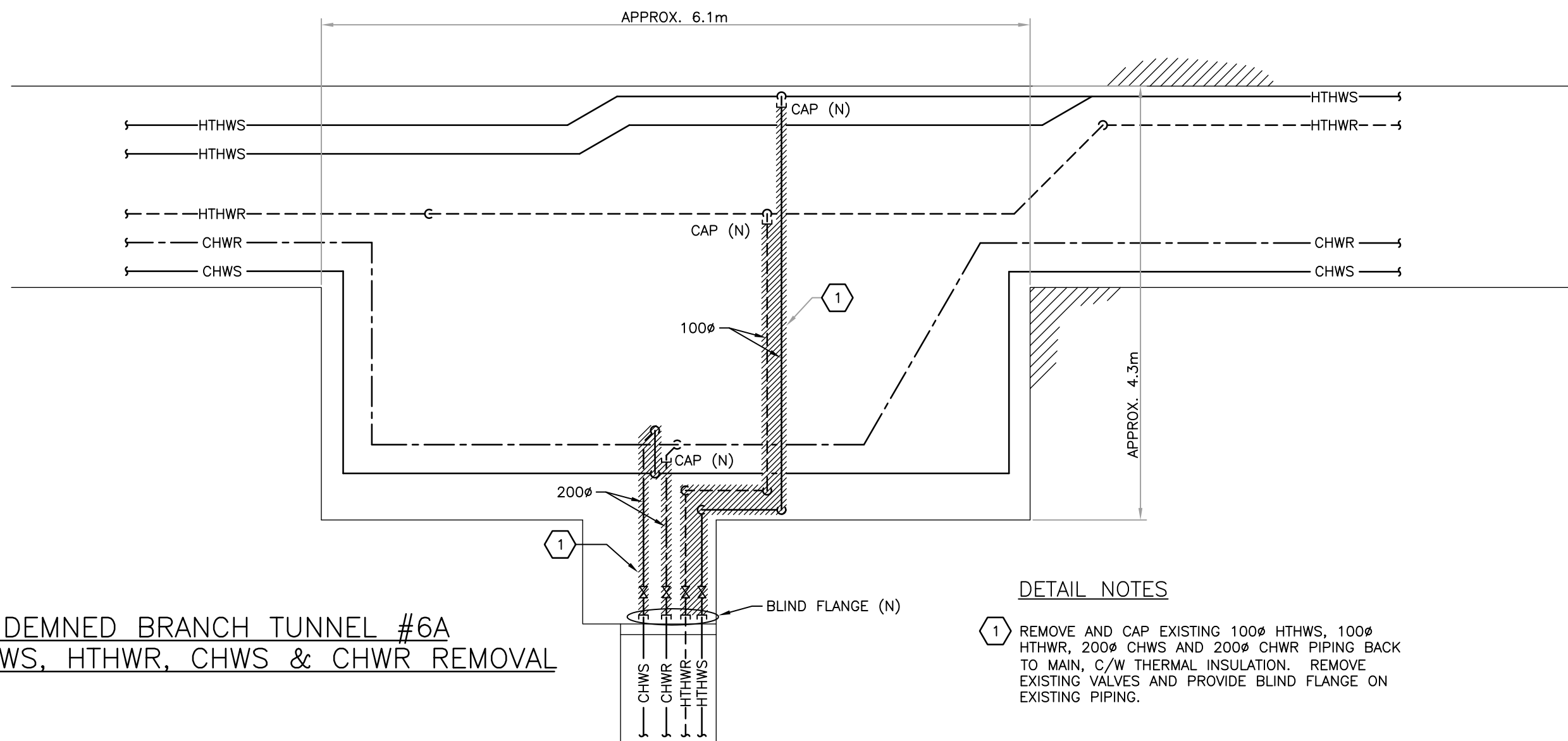
13
M-03
END OF TUNNEL – REDUNDANT PIPING REMOVAL
N.T.S.



DETAIL NOTES

- 1 REMOVE AND CAP EXISTING 100# HTHWS, 100# HTHWR, 100# CHWS AND 100# CHWR PIPING BACK TO MAIN. REMOVE EXISTING VALVES AND PROVIDE BLIND FLANGE ON EXISTING PIPING. PROVIDE NEW THERMAL INSULATION ON EXISTING PIPING.
- 2 REMOVE 5 FOOT LENGTH OF 100# HTHWS PIPING. PROVIDE NEW ELBOWS AND SPOOL PIECE TO MAKE PIPING STRAIGHT. CURRENTLY PIPING HAS POOR FITTINGS TO ACCOMMODATE CROSSOVER PIPING.

14
M-03
END OF TUNNEL CROSSOVER CONNECTIONS
N.T.S.



DETAIL NOTES

- 1 REMOVE AND CAP EXISTING 100# HTHWS, 100# HTHWR, 200# CHWS AND 200# CHWR PIPING BACK TO MAIN, C/W THERMAL INSULATION. REMOVE EXISTING VALVES AND PROVIDE BLIND FLANGE ON EXISTING PIPING.

15
M-03
CONDEMNED BRANCH TUNNEL #6A
HTHWS, HTHWR, CHWS & CHWR REMOVAL
N.T.S.



Contractor to verify all dimensions
& conditions on site and immediately
notify the engineer of all discrepancies.

revisions	description	date
4	RE-ISSUED FOR TENDER	2014/11/07
3	ISSUED FOR TENDER	2014/03/28
2	ISSUED FOR 100% REVIEW	2014/02/14
1	ISSUED FOR 99% REVIEW	2013/11/06

A	A detail no. no. du detail	A
C	B location drawing no. sur dessin no.	B
	C drawing no. dessin no.	C

project

CONFEDERATION HEIGHTS
CENTRAL HEATING PLANT
TUNNEL DIST. SYSTEM

BUILDING_ADDRESS

drawing

MECHANICAL
DETAILS

Designed By	JAYSON BOWIE	Conçu par	
Date	02/14/2014	(yyyy/mm/dd)	
Drawn By	MARIE FRANCE ETHER	Dessiné par	
Date	02/14/2014	(yyyy/mm/dd)	
Reviewed By	JAYSON BOWIE	Examiné par	
Date	02/14/2014	(yyyy/mm/dd)	
Approved By	FEDERICO ALVAREZ	Approuvé par	
Date	02/14/2014	(yyyy/mm/dd)	
Tender	TENDER	Soumission	
Project Manager	PROJECT_MANAGER	Administrateur de projets	
Project no.		No. du projet	

R.059696.004

Drawing no.

M-03