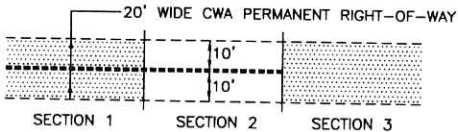


NOTES:

1. NEW 8" WATER MAIN MUST HAVE A MINIMUM OF 42" COVER FROM FINISHED GRADE UNLESS OTHERWISE NOTED.
2. CONTRACTOR MUST VERIFY IN FIELD ALL UNDERGROUND UTILITY INFORMATION IN ACCORDANCE WITH PA. ACT 38 ONE CALL PROCEDURE BY CALLING 1-800-242-1776 AT LEAST THREE (3) WORK DAYS PRIOR TO PERFORMING ANY EXCAVATIONS.
3. SEE CWA DWG. 1438-S FOR DETAILS OF STANDARD INSTALLATION PROCEDURES.
4. ALL FITTINGS FOR WATER MAIN TO BE CAST IRON OR DUCTILE IRON MECHANICAL JOINT IN ACCORDANCE WITH AWWA C-110 OR C-153 USA MFR.
5. TEMPORARY BITUMINOUS MATERIAL TO BE PLACED WHEN TRENCH IS BACKFILLED AND REMOVED WHEN PERMANENT RESTORATION IS MADE.
6. USE OFFSETS AND/OR BENDS OVER/UNDER EXISTING UTILITY LINES AS NECESSARY AS DETERMINED BY CWA REPRESENTATIVE UPON EXCAVATION BY CONTRACTOR.
7. ALL MAILBOXES, STREETS SIGNS, ETC. THAT WERE DUG UP DURING EXCAVATION MUST BE PUT BACK IN PLACE AT END OF EACH DAY. ALL BUSHES, HEDGES, ETC. DISTURBED DURING EXCAVATION MUST BE RESTORED TO ORIGINAL CONDITION.
8. ALL WATER MAIN SHOWN AS A DASHED LINE IN A PRIVATE RIGHT OF WAY TO BE IN A 20' WIDE CWA PERMANENT RIGHT OF WAY, THE CENTER OF WHICH WILL BE DIRECTLY OVER THE WATER MAIN AS SHOWN BELOW:  
SECTION 1  
ALL WATER MAIN SHOWN AS A DASHED LINE IN A PROPOSED PUBLIC RIGHT OF WAY TO BE IN A 20' WIDE CWA PERMANENT RIGHT OF WAY, THE CENTER OF WHICH WILL BE DIRECTLY OVER THE WATER MAIN AS SHOWN BELOW: SECTION 2  
ALL PROPOSED CWA PERMANENT RIGHT OF WAY FOR FUTURE USE TO BE 20' WIDE AS SHOWN IN DETAIL BELOW: SECTION 3



9. MAINS WITHIN DEVELOPMENT ARE COVERED BY DEVELOPERS EROSION & SEDIMENTATION CONTROL PLAN.
10. EXACT LOCATION OF AIR RELEASE VALVES TO BE DETERMINED IN FIELD.
11. ANY PAVEMENT MARKINGS REMOVED DURING MAIN INSTALLATION ARE TO BE RESTORED IN ACCORDANCE WITH PENNDOT SPECIFICATIONS.
12. STRAW BALE BARRIERS MUST BE INSTALLED ALONG THE TRENCH DURING MAIN INSTALLATION TO CONTROL EROSION AS PER P.A.D.E.P. EROSION AND SEDIMENT POLLUTION CONTROL PROGRAM MANUAL.
13. LOTS TO BE SERVED UNDER THIS PHASE ARE LOTS 145 THRU 200, PUMP STATION AND N/L PASSICK PROPERTY. ALL LOTS, PUMP STATION & N/L PASSICK PROPERTY TO BE SERVED BY 3/4" SINGLE SERVICE. EACH LOT TO BE SERVED WITH INSIDE AMR SETTING FOR 5/8" X 3/4" METER. PUMP STATION & N/L PASSICK PROPERTY TO BE SERVED WITH OUTSIDE AMR SETTING FOR 5/8" X 3/4" METER.

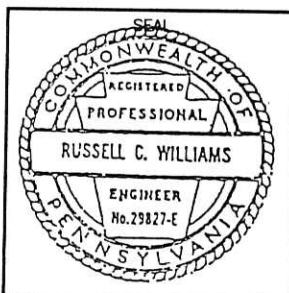
TOTAL # OF SERVICES: 58 - 3/4" SINGLE SERVICES

14. DEVELOPER TO INSTALL PRESSURE REGULATING VALVES PAST THE METER ON LOTS: 145-185, 192-194, THE PUMP STATION & N/L PASSICK PROPERTY, OR WITH A USGS ELEVATION OF 300' OR LOWER DUE TO THE EXPECTED PRESSURE.
15. THE ANTICIPATED STATIC WATER PRESSURE IS 85-95 PSI AT 300'± PER U.S.G.S ELEVATION.
16. CWA WILL REQUIRE THE INSTALLATION OF PHASE 2A PIPING IMMEDIATELY AFTER PHASE 2 IS COMPLETE, IF THE NEW WATER MAIN IS NOT INSTALLED ALONG GARNET MINE ROAD FROM BETHEL ROAD AND FOULK ROAD SO THAT LOOPED SERVICE IS PROVIDED FOR THE DEVELOPMENT.  
IF THE NEW PIPING IS COMPLETELY INSTALLED ALONG GARNET MINE ROAD FROM BETHEL ROAD AT THE TIME PHASE 2 IS COMPLETE, PHASE 2A CAN BE ELIMINATED AND PHASE 3 PIPING CAN BE INSTALLED NEXT. PLEASE BE AWARE CWA WILL NOT EXECUTE A PHASE 3 AGREEMENT UNTIL A LOOPED CONNECTION IS EITHER IMMEDIATELY AVAILABLE AND TO BE MADE BY THE DEVELOPER FROM GARNET MINE ROAD OR COMPLETED FROM THE INSTALLATION OF THE PHASE 2A PIPING.

DEVELOPER:

BRANDOLINI COMPANIES  
ATTN: MR. JACK DONALD  
1301 LANCASTER AVENUE  
BERWYN, PA. 19312  
(610)-644-7999 EXT. 103  
(610)-640-9058 FAX

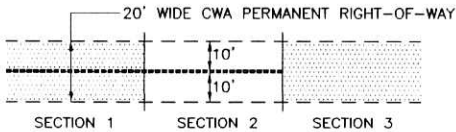
M09



0-NORTH BROOK - PHASE I

PA.		<b>CWA</b> CHESTER WATER AUTHORITY PROJECT: 8"Ø MAIN EXTENSION FOR NORTH BROOK - PHASE I
1 OF 3 SHEETS		
BY: J J B		
DWG. NO.: 2867-1		

1. NEW 8" WATER MAIN MUST HAVE A MINIMUM OF 42" COVER FROM FINISHED GRADE UNLESS OTHERWISE NOTED.
2. CONTRACTOR MUST VERIFY IN FIELD ALL UNDERGROUND UTILITY INFORMATION IN ACCORDANCE WITH PA. ACT 38 ONE CALL PROCEDURE BY CALLING 1-800-242-1776 AT LEAST THREE (3) WORK DAYS PRIOR TO PERFORMING ANY EXCAVATIONS.
3. SEE CWA DWG. 1438-S FOR DETAILS OF STANDARD INSTALLATION PROCEDURES.
4. ALL FITTINGS FOR WATER MAIN TO BE CAST IRON OR DUCTILE IRON MECHANICAL JOINT IN ACCORDANCE WITH AWWA C-110 OR C-153 USA MFR.
5. TEMPORARY BITUMINOUS MATERIAL TO BE PLACED WHEN TRENCH IS BACKFILLED AND REMOVED WHEN PERMANENT RESTORATION IS MADE.
6. USE OFFSETS AND/OR BENDS OVER/UNDER EXISTING UTILITY LINES AS NECESSARY AS DETERMINED BY CWA REPRESENTATIVE UPON EXCAVATION BY CONTRACTOR.
7. ALL MAILBOXES, STREETS SIGNS, ETC. THAT WERE DUG UP DURING EXCAVATION MUST BE PUT BACK IN PLACE AT END OF EACH DAY. ALL BUSHES, HEDGES, ETC. DISTURBED DURING EXCAVATION MUST BE RESTORED TO ORIGINAL CONDITION.
8. ALL WATER MAIN SHOWN AS A DASHED LINE IN A PRIVATE RIGHT OF WAY TO BE IN A 20' WIDE CWA PERMANENT RIGHT OF WAY, THE CENTER OF WHICH WILL BE DIRECTLY OVER THE WATER MAIN AS SHOWN BELOW: SECTION 1  
ALL WATER MAIN SHOWN AS A DASHED LINE IN A PROPOSED PUBLIC RIGHT OF WAY TO BE IN A 20' WIDE CWA PERMANENT RIGHT OF WAY, THE CENTER OF WHICH WILL BE DIRECTLY OVER THE WATER MAIN AS SHOWN BELOW: SECTION 2  
ALL PROPOSED CWA PERMANENT RIGHT OF WAYS FOR FUTURE USE TO BE 20' WIDE AS SHOWN IN DETAIL BELOW: SECTION 3



9. MAINS WITHIN DEVELOPMENT ARE COVERED BY DEVELOPERS EROSION & SEDIMENTATION CONTROL PLAN.
10. EXACT LOCATION OF AIR RELEASE VALVES TO BE DETERMINED IN FIELD.
11. ANY PAVEMENT MARKINGS REMOVED DURING MAIN INSTALLATION ARE TO BE RESTORED IN ACCORDANCE WITH PENNDOT SPECIFICATIONS.
12. STRAW BALE BARRIERS MUST BE INSTALLED ALONG THE TRENCH DURING MAIN INSTALLATION TO CONTROL EROSION AS PER P.A.D.E.P. EROSION AND SEDIMENT POLLUTION CONTROL PROGRAM MANUAL.
13. LOTS TO BE SERVED UNDER THIS PHASE ARE LOTS 20 THRU 35 AND LOTS 89 THRU 113. LOTS 20 THRU 35, 89 THRU 96, 98 THRU 113 TO BE SERVED BY 3/4" SINGLE SERVICE WITH INSIDE AMR METER SETTING FOR 5/8" X 3/4" METER. LOT 97 TO BE SERVED WITH OUTSIDE METER AMR SETTING FOR 5/8" X 3/4" METER.

TOTAL # OF SERVICES: 41 - 3/4" SINGLE SERVICES

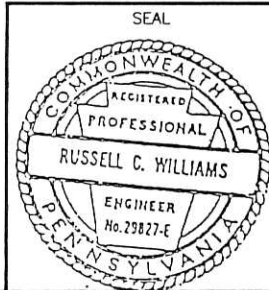
14. DEVELOPER TO INSTALL PRESSURE REGULATING VALVES PAST THE METER ON LOTS: 26-35, & 89-107 OR WITH A USGS ELEVATION OF 300'± OR LOWER DUE TO THE EXPECTED PRESSURE.
15. THE ANTICIPATED STATIC WATER PRESSURE IS 85-95 PSI AT 300'± PER U.S.G.S ELEVATION.
16. CWA WILL NOT ALLOW THE DEVELOPER TO INSTALL ANY SERVICES FROM MAIN TO THE CURB/EDGE OF PAVING FOR ANY LOTS WITH AN EXISTING HOUSE UNTIL THE SERVICE LINE IS INSTALLED FROM THE HOUSE TO THE CURB/EDGE OF PAVING. THE SERVICE MUST THEN BECOME AN ACTIVE ACCOUNT OR IT IS TO BE RETIRED BY THE DEVELOPER AT THEIR EXPENSE.
17. WATER MAIN, FITTINGS AND VALVES MUST BE ENCASED IN POLYWRAP DURING INSTALLATION IN AREA AS SHOWN ON SHEET 2 OF 4.

DEVELOPER:

BLENHEIM AT NORTHBROOK, LLC  
4550 NEW LINDEN HILL RD.  
SUITE 152, LINDEN PARK  
WILMINGTON, DE. 19808  
(302)633-0543  
(302)633-0685 FAX  
MR. ASHOK N. SONECHA - V.P.

M09

SEAL

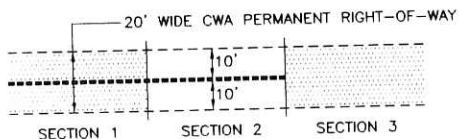


0-NORTH BROOK - PHASE 2

P PA.	<b>CWA</b> CHESTER WATER AUTHORITY
T 1 OF 4 SHEETS	PROJECT: 8"Ø MAIN EXTENSION FOR NORTH BROOK - PHASE 2
BY: <i>[Signature]</i>	
DWG. NO.: 2867-2	

**NOTES:**

1. NEW 8" WATER MAIN MUST HAVE A MINIMUM OF 42" COVER FROM FINISHED GRADE UNLESS OTHERWISE NOTED.
2. CONTRACTOR MUST VERIFY IN FIELD ALL UNDERGROUND UTILITY INFORMATION IN ACCORDANCE WITH PA. ACT 38 ONE CALL PROCEDURE BY CALLING 1-800-242-1776 AT LEAST THREE (3) WORK DAYS PRIOR TO PERFORMING ANY EXCAVATIONS.
3. SEE CWA DWG. 1438-S FOR DETAILS OF STANDARD INSTALLATION PROCEDURES.
4. ALL FITTINGS FOR WATER MAIN TO BE CAST IRON OR DUCTILE IRON MECHANICAL JOINT IN ACCORDANCE WITH AWWA C-110 OR C-153 USA MFR.
5. TEMPORARY BITUMINOUS MATERIAL TO BE PLACED WHEN TRENCH IS BACKFILLED AND REMOVED WHEN PERMANENT RESTORATION IS MADE.
6. USE OFFSETS AND/OR BENDS OVER/UNDER EXISTING UTILITY LINES AS NECESSARY AS DETERMINED BY CWA REPRESENTATIVE UPON EXCAVATION BY CONTRACTOR.
7. ALL MAILBOXES, STREETS SIGNS, ETC. THAT WERE DUG UP DURING EXCAVATION MUST BE PUT BACK IN PLACE AT END OF EACH DAY. ALL BUSHES, HEDGES, ETC. DISTURBED DURING EXCAVATION MUST BE RESTORED TO ORIGINAL CONDITION.
8. ALL WATER MAIN SHOWN AS A DASHED LINE IN A PRIVATE RIGHT OF WAY TO BE IN A 20' WIDE CWA PERMANENT RIGHT OF WAY, THE CENTER OF WHICH WILL BE DIRECTLY OVER THE WATER MAIN AS SHOWN BELOW:  
SECTION 1  
ALL WATER MAIN SHOWN AS A DASHED LINE IN A PROPOSED PUBLIC RIGHT OF WAY TO BE IN A 20' WIDE CWA PERMANENT RIGHT OF WAY, THE CENTER OF WHICH WILL BE DIRECTLY OVER THE WATER MAIN AS SHOWN BELOW: SECTION 2  
ALL PROPOSED CWA PERMANENT RIGHT OF WAYS FOR FUTURE USE TO BE 20' WIDE AS SHOWN IN DETAIL BELOW: SECTION 3



9. MAINS WITHIN DEVELOPMENT ARE COVERED BY DEVELOPERS EROSION & SEDIMENTATION CONTROL PLAN.
10. EXACT LOCATION OF AIR RELEASE VALVES TO BE DETERMINED IN FIELD.
11. ANY PAVEMENT MARKINGS REMOVED DURING MAIN INSTALLATION ARE TO BE RESTORED IN ACCORDANCE WITH PENNDOT SPECIFICATIONS.
12. STRAW BALE BARRIERS MUST BE INSTALLED ALONG THE TRENCH DURING MAIN INSTALLATION TO CONTROL EROSION AS PER P.A.D.E.P. EROSION AND SEDIMENT POLLUTION CONTROL PROGRAM MANUAL.
13. LOTS TO BE SERVED UNDER THIS PHASE ARE LOTS 1 THRU 19 AND LOTS 114 THRU 144. ALL LOTS TO BE SERVED BY 3/4" SINGLE SERVICES WITH INSIDE AMR SETTING FOR 5/8"x 3/4" METER.

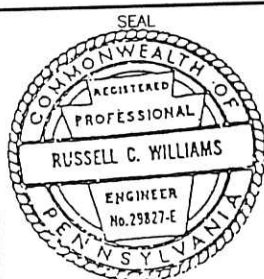
TOTAL # OF SERVICES: 50 - 3/4" SINGLE SERVICES

14. THE ANTICIPATED STATIC WATER PRESSURE IS 85-95 PSI AT 300'± PER U.S.G.S ELEVATION.
15. PRESSURE REDUCING VALVE MUST BE INSTALLED BY THE DEVELOPER AFTER THE METER ON ALL LOTS DUE TO THE ANTICIPATED PRESSURE.
16. CHLORINATED WATER CANNOT BE DISCHARGED INTO ANY WATERWAY OF THE COMMONWEALTH OF PENNSYLVANIA. WATER MUST BE DECHLORINATED, USING ASCORBIC ACID IN A MANNER SO AS TO NOT HARM AQUATIC LIFE, PRIOR TO DISCHARGE. ALL WATER FLUSHED FROM C.W.A. MAIN MUST BE DECHLORINATED USING A DECHLORINATING DIFFUSER WITH VITA D-CHLOR ASCORBIC ACID TABLETS, ASCORBIC ACID DRIP, OR ANOTHER APPROVED EQUAL METHOD OF USING ASCORBIC ACID. NO OTHER DECHLORINATING AGENTS WILL BE ALLOWED.

M09

**DEVELOPER:**

BLenheim AT NORTH BROOK, LLC  
ATTN: MR. KAMAL DATTANI  
220 CONTINENTAL DR. SUITE 410  
NEWARK, DE. 19713  
(302)-633-0543  
(302)-420-7121 CELL



LE: 5610-NORTH BROOK - PHASE 3

NSHIP  
NTY, PA.

**CWA CHESTER WATER AUTHORITY**

PROJECT:

8"Ø MAIN EXTENSION  
FOR

NORTH BROOK - PHASE 3

SHEET 1 OF 3 SHEETS

DRAWN BY: J J J

DWG. NO.: 2867-3

06-081

ABOVE

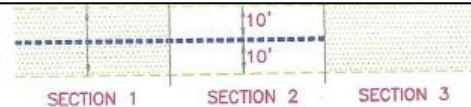
#### REFERENCE:

FINAL SUBDIVISION PLAN FOR NORTH BROOK DWG. #1661 REV. 01/24/00 BY  
BRANDYWINE VALLEY ENGINEERS, 188 PENNELL RD, ASTON, PA. 19014-3012

#### NOTES:

1. NEW 4" WATER MAIN MUST HAVE A MINIMUM OF 42" COVER FROM FINISHED GRADE UNLESS OTHERWISE NOTED.
2. CONTRACTOR MUST VERIFY IN FIELD ALL UNDERGROUND UTILITY INFORMATION IN ACCORDANCE WITH PA. ACT 38 ONE CALL PROCEDURE BY CALLING 1-800-242-1776 AT LEAST THREE (3) WORK DAYS PRIOR TO PERFORMING ANY EXCAVATIONS.
3. SEE CWA DWG. 1438-S FOR DETAILS OF STANDARD INSTALLATION PROCEDURES.
4. ALL FITTINGS FOR WATER MAIN TO BE CAST IRON OR DUCTILE IRON MECHANICAL JOINT IN ACCORDANCE WITH AWWA C-110 OR C-153 USA MFR.
5. TEMPORARY BITUMINOUS MATERIAL TO BE PLACED WHEN TRENCH IS BACKFILLED AND REMOVED WHEN PERMANENT RESTORATION IS MADE.
6. USE OFFSETS AND/OR BENDS OVER/UNDER EXISTING UTILITY LINES AS NECESSARY AS DETERMINED BY CWA REPRESENTATIVE UPON EXCAVATION BY CONTRACTOR.
7. ALL MAILBOXES, STREETS SIGNS, ETC. THAT WERE DUG UP DURING EXCAVATION MUST BE PUT BACK IN PLACE AT END OF EACH DAY. ALL BUSHES, HEDGES, ETC. DISTURBED DURING EXCAVATION MUST BE RESTORED TO ORIGINAL CONDITION.
8. ALL WATER MAIN SHOWN AS A DASHED LINE IN A PRIVATE RIGHT OF WAY TO BE IN A 20' WIDE CWA PERMANENT RIGHT OF WAY, THE CENTER OF WHICH WILL BE DIRECTLY OVER THE WATER MAIN AS SHOWN BELOW:  
SECTION 1  
ALL WATER MAIN SHOWN AS A DASHED LINE IN A PROPOSED PUBLIC RIGHT OF WAY TO BE IN A 20' WIDE CWA PERMANENT RIGHT OF WAY, THE CENTER OF WHICH WILL BE DIRECTLY OVER THE WATER MAIN AS SHOWN BELOW: SECTION 2  
ALL PROPOSED CWA PERMANENT RIGHT OF WAY FOR FUTURE USE TO BE 20' WIDE AS SHOWN IN DETAIL BELOW: SECTION 3

——— 20' WIDE CWA PERMANENT RIGHT-OF-WAY



9. MAINS WITHIN DEVELOPMENT ARE COVERED BY DEVELOPERS EROSION & SEDIMENTATION CONTROL PLAN.
10. EXACT LOCATION OF AIR RELEASE VALVES TO BE DETERMINED IN FIELD.
11. ANY PAVEMENT MARKINGS REMOVED DURING MAIN INSTALLATION ARE TO BE RESTORED IN ACCORDANCE WITH PENNDOT SPECIFICATIONS.
12. STRAW BALE BARRIERS MUST BE INSTALLED ALONG THE TRENCH DURING MAIN INSTALLATION TO CONTROL EROSION AS PER P.A.D.E.P. EROSION AND SEDIMENT POLLUTION CONTROL PROGRAM MANUAL.
13. LOTS TO BE SERVED UNDER THIS PHASE ARE LOTS 36 THRU 88. EACH LOT TO BE SERVED BY 3/4" SINGLE SERVICES WITH INSIDE AMR SETTING FOR 5/8"x 3/4" METER.

TOTAL # OF SERVICES: 53 - 3/4" SINGLE SERVICES

14. THE ANTICIPATED STATIC WATER PRESSURE IS 85-95 PSI AT 300'± PER U.S.G.S ELEVATION.
15. PRESSURE REDUCING VALVE MUST BE INSTALLED BY THE DEVELOPER AFTER THE METER ON ALL LOTS DUE TO THE ANTICIPATED PRESSURE.
16. CHLORINATED WATER CANNOT BE DISCHARGED INTO ANY WATERWAY OF THE COMMONWEALTH OF PENNSYLVANIA. WATER MUST BE DECHLORINATED, USING ASCORBIC ACID IN A MANNER SO AS TO NOT HARM AQUATIC LIFE, PRIOR TO DISCHARGE. ALL WATER FLUSHED FROM C.W.A. MAIN MUST BE DECHLORINATED USING A DECHLORINATING DIFFUSER WITH VITA D-CHLOR ASCORBIC ACID TABLETS, ASCORBIC ACID DRIP, OR ANOTHER APPROVED EQUAL METHOD OF USING ASCORBIC ACID. NO OTHER DECHLORINATING AGENTS WILL BE ALLOWED.

#### DEVELOPER:

BLENHED AT NORTH BROOK, LLC  
ATTN: MR. KAMAL DATTANI  
220 CONTINENTAL DR. SUITE 410  
NEWARK, DE. 19713  
(302)-833-0543  
(302)-420-7121 CELL

W09

SEAL

**CWA** CHESTER WATER AUTHORITY

PROJECT:

4"Ø MAIN EXTENSION

FOR

NORTH BROOK - PHASE 4

A.

OF 3 SHEETS

DATE: 1/24/00

DWG. NO.: 2867-4





Water Supply - before pressure  
reducing valve installation



Water Supply - after pressure  
reducing valve installed