A BILL
ENTITLED

AN ACT concerning

The Plumbing and Gasfitting Code of Baltimore County


BY Repealing
   The Plumbing and Gasfitting Code of Baltimore County, Maryland as adopted by Bill No. 17-13.

BY Adopting

EXPLANATION: CAPITALS INDICATE MATTER ADDED TO EXISTING LAW.
[Brackets] indicate matter stricken from existing law.
Strike out indicates matter stricken from bill.
Underlining indicates amendments to bill.
SECTION 1. BE IT ENACTED BY THE COUNTY COUNCIL OF BALTIMORE COUNTY, MARYLAND, that the Plumbing and Gasfitting Code of Baltimore County adopted by Bill No. 17-13 be and the same is hereby repealed.


SECTION 3. AND BE IT FURTHER ENACTED that the Bill No. 41-15 may be referred to as "The Plumbing and Gasfitting Code of Baltimore County".

SECTION 4. AND BE IT FURTHER ENACTED that the deletions, replacements, amendments, and additions set forth in the following PARTS 100, 200, 300, and 400 are hereby adopted as "The Plumbing and Gasfitting Code of Baltimore County".

PART 100 COMMON PROVISIONS

PART 101 INTRODUCTION
THE PARTS SET FORTH IN THIS PART 100 APPLY TO ALL OF THE CODES ADOPTED IN THIS CODE, THE PLUMBING AND GASFITTING CODE OF BALTIMORE COUNTY.

PART 102 ADOPTED CODES
THE FOLLOWING CODES ARE HEREBY ADOPTED INTO THIS CODE, ALONG WITH ANY DELETIONS, REPLACEMENTS, AMENDMENTS, AND ADDITIONS TO THOSE CODES AS SET FORTH IN THEIR ADOPTION:
1. THE NATIONAL STANDARD PLUMBING CODE ILLUSTRATED, 2015 EDITION, PUBLISHED BY THE PLUMBING-HEATING-COOLING CONTRACTORS - NATIONAL ASSOCIATION.
2. THE NATIONAL FUEL GAS CODE, NFPA 54/ANSI Z223.1, 2015 EDITION, PUBLISHED BY THE NATIONAL FIRE PROTECTION ASSOCIATION.
PART 103 CODE OFFICIALS

PART 103.1 ADOPTING AGENCY
THE ADOPTING AGENCY OF THIS CODE IS THE COUNTY COUNCIL OF BALTIMORE COUNTY, MARYLAND.

PART 103.2 AUTHORITY HAVING JURISDICTION
THE AUTHORITY HAVING JURISDICTION FOR THIS CODE IS THE DIRECTOR OF THE BALTIMORE COUNTY DEPARTMENT OF PERMITS, APPROVALS AND INSPECTIONS OR HIS DESIGNEE.

PART 104 ADMINISTRATION

PART 104.1 TITLE
THE REGULATIONS CONTAINED IN THE CODES ADOPTED HEREIN SHALL BE KNOWN AS THE "BALTIMORE COUNTY PLUMBING AND GASFITTING CODE" AND MAY BE CITED AS SUCH, AND HEREINAFTER REFERRED TO AS "THIS CODE".

PART 104.2 SCOPE
THE PROVISIONS OF THIS CODE SHALL APPLY TO EVERY INSTALLATION, INCLUDING THE DESIGN, ERECTION, INSTALLATION, ALTERATION, RELOCATION, REPAIR, REPLACEMENT, ADDITION TO, USE OR MAINTENANCE OF THE PLUMBING AND FUEL GAS SYSTEMS AS DEFINED WITHIN THIS CODE.

PART 104.3 PURPOSE
THIS CODE ESTABLISHES THE MINIMUM REQUIREMENTS AND STANDARDS PERTAINING TO THE DESIGN, INSTALLATION, USE AND MAINTENANCE OF THE PLUMBING AND FUEL GAS SYSTEMS AS DEFINED WITHIN THIS CODE.

PART 104.4 APPLICABILITY

PART 104.4.1 ADDITION OR REPAIR
ADDITIONS, ALTERATIONS, OR REPAIRS IN COMPLIANCE WITH THIS CODE MAY BE MADE TO ANY EXISTING SYSTEM WITHOUT REQUIRING THE EXISTING INSTALLATION TO COMPLY WITH ALL OF THE REQUIREMENTS OF
PART 104.4.2 EXISTING INSTALLATIONS

Systems that were lawfully installed prior to the adoption of this code may continue their use, maintenance, and repair, provided that the operation, maintenance, and repair is in accordance with the original design and installation, and no hazard has been created to life, health, or property by the system.

PART 104.4.3 EXISTING USE

The lawful use of any existing system, including its piping, appliances, fixtures, fittings, and appurtenances may have its use continued, provided that no hazards to life, health, or property have been created by its continued use.

PART 104.4.4 MAINTENANCE AND REPAIRS

Existing systems, including materials, fixtures, fittings, appurtenances, controls, and safety devices, shall be maintained in a safe and operable condition. Repairs shall be made in the same manner and arrangement as the original installation. The owner, or his designated agent, shall be responsible for the maintenance and repairs.

PART 104.4.5 CHANGE OF BUILDING USE

Systems in any building or structure that is proposed for a change in use or occupancy shall comply with all requirements of this code for the new use or occupancy.

PART 104.4.6 MOVED BUILDINGS OR STRUCTURES

Systems in any building or structure to be moved into or relocated within this jurisdiction shall comply with the provisions of this code for new construction.

PART 104.4.7 SPECIAL HISTORIC BUILDINGS
THE PROVISIONS OF THIS CODE RELATED TO ANY ADDITIONS, ALTERATIONS, REPAIR, REPLACEMENT, OR RESTORATION OF THOSE STRUCTURES DESIGNATED AS HISTORIC BUILDINGS SHALL NOT BE MANDATORY IF THE AUTHORITY HAVING JURISDICTION DETERMINES THAT THE LACK OF CONFORMANCE IS NOT A HAZARD TO LIFE, HEALTH, OR PROPERTY AND NOT REQUIRING CONFORMANCE IS IN THE PUBLIC INTEREST.

PART 104.8 APPENDICES AND ANNEXES

THE PROVISIONS IN THE APPENDICES AND ANNEXES IN THE CODES THAT ARE ADOPTED IN PART 102 OF THIS CODE ARE FOR INFORMATIONAL PURPOSES ONLY. THESE APPENDICES AND ANNEXES ARE NOT REQUIREMENTS OF THIS CODE UNLESS THEY ARE SPECIFICALLY REFERENCED IN PARTS 200, 300, OR 400 HEREIN.

PART 104.5 APPROVALS

PART 104.5.1 ALTERNATIVE MATERIAL OR METHOD

THE PROVISIONS CITED IN THIS CODE ARE NOT INTENDED TO PREVENT THE USE OF ANY ALTERNATIVE MATERIAL OR METHOD OF INSTALLATION WHEN IT IS DETERMINED TO MEET THE INTENT OF THIS CODE AND IS APPROVED BY THE AUTHORITY HAVING JURISDICTION.

PART 104.5.2 APPROVAL OF ALTERNATIVE MATERIAL OR METHOD

THE AUTHORITY HAVING JURISDICTION MAY APPROVE ANY SUCH ALTERNATIVE MATERIAL OR METHOD OF INSTALLATION NOT EXPRESSLY CONFORMING TO THE REQUIREMENTS OF THIS CODE, PROVIDED THAT IT FINDS THE PROPOSED MATERIAL OR METHOD OF INSTALLATION IS AT LEAST THE EQUIVALENT OF THAT REQUIRED BY THIS CODE.

PART 104.5.3 TESTS REQUIRED

THE AUTHORITY HAVING JURISDICTION SHALL REQUIRE SUFFICIENT EVIDENCE TO SUBSTANTIATE ANY CLAIMS MADE REGARDING THE EQUIVALENCY OF ANY PROPOSED ALTERNATIVE MATERIAL OR METHOD OF INSTALLATION. WHEN THE AUTHORITY HAVING JURISDICTION DETERMINES THAT THERE IS INSUFFICIENT EVIDENCE TO SUBSTANTIATE THE CLAIMS, IT
MAY REQUIRE THAT TESTS BE MADE BY A TESTING AGENCY IT APPROVES TO SUBSTANTIATE THE CLAIMS AT THE EXPENSE OF THE APPLICANT.

PART 104.5.4 TEST PROCEDURE

THE AUTHORITY HAVING JURISDICTION SHALL REQUIRE THAT ALL TESTS BE MADE IN ACCORDANCE WITH APPROVED STANDARDS; BUT, IN THE ABSENCE OF SUCH STANDARDS, THE AUTHORITY HAVING JURISDICTION SHALL SPECIFY THE TEST PROCEDURE.

PART 104.5.5 RETESTING

THE AUTHORITY HAVING JURISDICTION MAY REQUIRE ANY ALTERNATIVE MATERIAL OR METHOD OF INSTALLATION TO BE RETESTED IF, AT ANY TIME, THERE IS REASON TO BELIEVE THAT THE MATERIAL OR METHOD OF INSTALLATION NO LONGER CONFORMS TO THE REQUIREMENTS ON WHICH THE ORIGINAL APPROVAL WAS BASED.

PART 104.6 ORGANIZATION AND ENFORCEMENT

PART 104.6.1 AUTHORITY HAVING JURISDICTION

THE AUTHORITY HAVING JURISDICTION TO ADMINISTER AND ENFORCE THE PROVISIONS OF THIS CODE IS THE DIRECTOR OF THE DEPARTMENT OF PERMITS, APPROVALS AND INSPECTIONS, OR HIS DESIGNEE.

PART 104.6.2 DESIGNEES

THE AUTHORITY HAVING JURISDICTION MAY APPOINT SUCH ASSISTANTS, DEPUTIES, INSPECTORS, OR OTHER DESIGNATED EMPLOYEES TO CARRY OUT THE ADMINISTRATION AND ENFORCEMENT OF THIS CODE.

PART 104.6.3 RIGHT OF ENTRY

WHEN INSPECTIONS ARE REQUIRED TO ENFORCE THE PROVISIONS OF THIS CODE, OR THERE IS REASONABLE CAUSE TO BELIEVE THERE EXISTS IN ANY BUILDING, STRUCTURE, OR PREMISES ANY CONDITION OR VIOLATION OF THIS CODE CAUSING THE BUILDING, STRUCTURE, OR PREMISES TO BE UNSAFE, DANGEROUS, OR HAZARDOUS, THE AUTHORITY HAVING JURISDICTION OR HIS DESIGNEE MAY ENTER SUCH BUILDING, STRUCTURE, OR PREMISES AT REASONABLE TIMES TO PERFORM THEIR ADMINISTRATION OF THIS CODE. WHEN THE BUILDING, STRUCTURE, OR PREMISES IS
OCCUPIED, PROPER CREDENTIALS SHALL BE PRESENTED TO THE OCCUPANT WHEN ENTRY IS REQUIRED. IN THE EVENT THE BUILDING, STRUCTURE, OR PREMISES IS UNOCCUPIED AND ENTRY IS REQUIRED, A REASONABLE EFFORT SHALL BE MADE TO LOCATE THE OWNER OR HIS AGENT IN CHARGE OF SUCH BUILDING, STRUCTURE, OR PREMISES. IN THE EVENT THE OCCUPANT OR OWNER OF SUCH BUILDING, STRUCTURE, OR PREMISES REFUSES ENTRY, THE AUTHORITY HAVING JURISDICTION SHALL HAVE RECURS TO THE REMEDIES PROVIDED BY LAW TO GAIN ENTRY.

PART 104.6.4 STOP WORK ORDER

UPON NOTICE FROM THE AUTHORITY HAVING JURISDICTION, WORK BEING DONE ON ANY BUILDING, STRUCTURE, OR PREMISES CONTRARY TO THE PROVISIONS OF THIS CODE, OR IN AN UNSAFE AND DANGEROUS MANNER, SHALL CEASE IMMEDIATELY. THE STOP WORK ORDER SHALL BE IN WRITING, SERVED ON THE OWNER OF THE PROPERTY, OR HIS AGENT, OR TO THE PERSON DOING SUCH WORK. IT SHALL STATE THE CONDITIONS UNDER WHICH THE AUTHORITY HAVING JURISDICTION MAY GRANT AUTHORIZATION TO PROCEED WITH THE WORK.

PART 104.6.5 AUTHORITY TO CONDEMN

WHEN THE AUTHORITY HAVING JURISDICTION DETERMINES THAT ANY PLUMBING SYSTEM OR PORTION THEREOF THAT IS REGULATED BY THIS CODE HAS BECOME UNSANITARY OR HAZARDOUS TO LIFE, HEALTH, OR PROPERTY, IT SHALL ORDER IN WRITING THAT SUCH PLUMBING SYSTEM OR PORTION THEREOF BE REPAIRED, REPLACED, OR REMOVED SO AS TO BE IN CODE COMPLIANCE. THE WRITTEN ORDER SHALL CONTAIN A REASONABLE TIME LIMIT FOR THE WORK TO BE BROUGHT INTO CODE COMPLIANCE, AND NO PERSON SHALL USE THE CONDEMNED PLUMBING SYSTEM UNTIL SUCH WORK IS COMPLETE AND APPROVED BY THE AUTHORITY HAVING JURISDICTION.

PART 104.6.6 AUTHORITY TO ABATE

ANY PLUMBING SYSTEM OR PORTION THEREOF THAT IS FOUND TO BE UNSANITARY OR CONSTITUTE A HAZARD TO LIFE, HEALTH, OR PROPERTY IS
HEREBY DECLARED TO BE A NUISANCE. WHERE A NUISANCE EXISTS, THE
AUTHORITY HAVING JURISDICTION SHALL REQUIRE THE NUISANCE TO BE
ABATED AND SHALL SEEK SUCH ABATEMENT IN THE MANNER PRESCRIBED
BY LAW.

PART 104.6.7 LIABILITY
THE AUTHORITY HAVING JURISDICTION OR ANY INDIVIDUAL DULY
APPOINTED OR AUTHORIZED BY THE AUTHORITY HAVING JURISDICTION TO
ENFORCE THIS CODE, ACTING IN GOOD FAITH AND WITHOUT MALICE, SHALL
NOT THEREBY BE RENDERED PERSONALLY LIABLE FOR ANY DAMAGE THAT
MAY OCCUR TO PERSONS OR PROPERTY AS A RESULT OF ANY ACT OR BY
REASON OF ANY ACT OR OMission IN THE LAWFUL DISCHARGE OF HIS
DUTIES. SHOULD A SUIT BE BROUGHT AGAINST THE AUTHORITY HAVING
JURISDICTION OR A DULY APPOINTED REPRESENTATIVE BECAUSE OF SUCH
ACT OR OMission, THEY SHALL BE DEFENDED BY LEGAL COUNSEL
PROVIDED BY THIS JURISDICTION UNTIL FINAL DISPOSITION OF THE
PROCEEDINGS.

PART 104.7 VIOLATIONS AND PENALTIES

PART 104.7.1 VIOLATIONS
IT SHALL BE UNLAWFUL FOR ANY INDIVIDUAL, PARTNERSHIP, FIRM, OR
CORPORATION TO, OR CAUSE TO, INSTALL, CONSTRUCT, ERECT, ALTER,
REPAIR, IMPROVE, CONVERT, MOVE, USE, OR MAINTAIN ANY SYSTEM IN
VIOLATION OF THIS CODE.

PART 104.7.2 PENALTIES
ANY INDIVIDUAL, PARTNERSHIP, FIRM OR CORPORATION WHO VIOLATES OR
FAILS TO COMPLY WITH ANY OF THE REQUIREMENTS OF THIS OR ANY OTHER
BALTIMORE COUNTY CODE SHALL BE DEEMED A VIOLATOR AND SUBJECT
TO THE ENFORCEMENT PROCEDURES SET FORTH IN ARTICLE 3, TITLE 6,
BALTIMORE COUNTY CODE, 2003, AS AMENDED, AND THE PENALTIES SET
FORTH IN SECTIONS 1-2-217 AND 35-2-204, BALTIMORE COUNTY CODE, 2003,
AS AMENDED, AS WELL AS PART 119 OF THE MOST RECENT EDITION OF THE
BALTIMORE COUNTY BUILDING CODE.
PART 104.8 PERMITS

PART 104.8.1 PERMITS REQUIRED

IT SHALL BE UNLAWFUL FOR ANY INDIVIDUAL, PARTNERSHIP, FIRM, OR CORPORATION TO COMMENCE, OR CAUSE TO COMMENCE, ANY INSTALLATION, ALTERATION, REPAIR, REPLACEMENT, CONVERSION, OR ADDITION TO ANY SYSTEM, OR PART THEREOF, REGULATED BY THIS CODE, EXCEPT AS PERMITTED IN PART 104.8.2 OF THIS CODE, WITHOUT FIRST OBTAINING A PERMIT FOR EACH SEPARATE BUILDING OR STRUCTURE ON FORMS PREPARED AND PROVIDED BY THE AUTHORITY HAVING JURISDICTION.

PART 104.8.2 PERMITS NOT REQUIRED FOR THE FOLLOWING

A. PERMITS SHALL NOT BE REQUIRED FOR THE FOLLOWING WORK:

1. THE STOPPAGE OF LEAKS IN WATER, DRAIN, VENT, OR FUEL GAS PIPING. HOWEVER, SHOULD THE DEFECT NECESSITATE REMOVAL AND REPLACEMENT WITH NEW MATERIAL, IT SHALL CONSTITUTE NEW WORK AND A PERMIT SHALL BE OBTAINED AND INSPECTIONS MADE AS REQUIRED IN THIS CODE.

2. THE CLEARING OF STOPPAGES OR OBSTRUCTIONS TO FLOW.

3. THE REPAIRING OF LEAKS IN VALVES OR FIXTURES.

4. THE REMOVAL AND REINSTALLATION OF A WATER CLOSET FOR A CLEANOUT OPENING, PROVIDED THE REINSTALLATION DOES NOT REQUIRE REPLACEMENT OR REARRANGEMENT OF VALVES, PIPES, OR FIXTURES.

5. THE REPAIR OF FAUCETS AND REPLACEMENT OF WATER CLOSET PARTS.

B. EXEMPTIONS FROM OBTAINING A PERMIT REQUIRED BY THIS CODE SHALL NOT BE CONSTRUED AS AUTHORIZATION TO PERMIT ANY WORK THAT IS IN VIOLATION OF THIS CODE.

PART 104.9 PROCESS FOR OBTAINING PERMITS

PART 104.9.1 APPLICATION
APPLICATIONS FOR A PERMIT SHALL BE MADE IN WRITING BY THE PERSON, OR HIS AGENT, PROPOSING TO DO SUCH WORK COVERED BY THE PERMIT. THE APPLICANT SHALL FILE THE APPLICATION FOR PLUMBING PERMIT USING THE FORM PROVIDED BY THE AUTHORITY HAVING JURISDICTION.

PART 104.9.2 PLANS
TWO OR MORE SETS OF PLANS SHALL BE SUBMITTED WITH EACH PERMIT APPLICATION. IF REQUIRED BY THE AUTHORITY HAVING JURISDICTION, THE PLANS SHALL CONTAIN ALL OF THE ENGINEERING CALCULATIONS, DRAWINGS, DIAGRAMS, AND OTHER DATA AS REQUIRED FOR APPROVAL. THE AUTHORITY HAVING JURISDICTION MAY ALSO REQUIRE THAT THE PLANS, DRAWINGS, DIAGRAMS, AND CALCULATIONS BE DESIGNED BY AN ENGINEER WHO IS LICENSED BY THE STATE OF MARYLAND. THE AUTHORITY HAVING JURISDICTION MAY WAIVE THE SUBMISSION OF PLANS AND OTHER DOCUMENTATION, PROVIDED THAT IT IS DETERMINED THAT THE NATURE OF THE WORK COVERED BY THE PERMIT DOES NOT REQUIRE PLAN REVIEW TO OBTAIN CODE COMPLIANCE.

PART 104.9.3 SPECIFICATIONS
ALL SPECIFICATIONS THAT ARE REQUIRED TO BE SUBMITTED FOR A PERMIT SHALL BE COORDINATED WITH THE PROPOSED WORK AND SHALL CONFIRM THAT THE WORK WILL COMPLY WITH THE REQUIREMENTS OF THIS CODE.

PART 104.9.4 PERMIT ISSUANCE
IF, AFTER REVIEWING THE PLANS AND SPECIFICATIONS, THE AUTHORITY HAVING JURISDICTION FINDS THAT THEY ARE COMPLETE AND CONFORM TO THE REQUIREMENTS OF THIS CODE, IT SHALL AUTHORIZE THE ISSUANCE OF A PERMIT UPON PAYMENT OF ALL OF THE FEES ASSOCIATED WITH THE PERMIT.

PART 104.9.5 APPROVED PLANS
WHEN THE AUTHORITY HAVING JURISDICTION ISSUES A PERMIT AND PLANS WERE REQUIRED, IT SHALL ENDORSE THE PLANS EITHER IN WRITING OR BY STAMPING THE PLANS "APPROVED BY BALTIMORE COUNTY". ALL WORK
SHALL BE DONE IN ACCORDANCE WITH THE APPROVED PLANS WITHOUT DEVIATION.

**PART 104.9.6 PLANS RETENTION**

ONE SET OF THE APPROVED PLANS SHALL BE RETURNED TO THE APPLICANT AND THAT SET OF THE APPROVED PLANS, OR A COPY OF THAT APPROVED SET, SHALL BE KEPT ON THE JOB SITE AT ALL TIMES UNTIL FINAL APPROVAL OF THE INSTALLED WORK CONTAINED THEREIN. THE AUTHORITY HAVING JURISDICTION SHALL RETAIN ONE SET OF THE APPROVED PLANS UNTIL FINAL APPROVAL OF THE INSTALLED WORK CONTAINED THEREIN.

**PART 104.9.7 PERMIT VALIDITY**

THE ISSUANCE OF A PERMIT BY THE AUTHORITY HAVING JURISDICTION IS NOT AND SHALL NOT BE CONSTRUED TO BE AUTHORIZATION OR APPROVAL OF ANY VIOLATION OF THE REQUIREMENTS OF THIS CODE. ANY PRESUMPTION THAT A PERMIT IS AUTHORIZATION TO VIOLATE OR CANCEL ANY PROVISIONS OF THIS CODE SHALL BE INVALID. THE ISSUANCE OF A PERMIT BASED ON SUBMITTED PLANS SHALL NOT PREVENT THE AUTHORITY HAVING JURISDICTION FROM REQUIRING THE CORRECTION OF ANY ERRORS IN THE PLANS OR PREVENTING THE PROGRESS OF THE CONSTRUCTION WHEN IT IS IN VIOLATION OF ANY PROVISION OF THIS CODE.

**PART 104.9.8 TIME LIMIT ON PERMITS**

ALL PERMITS SHALL BE ISSUED TO EXPIRE ONE YEAR AFTER THE DATE SUCH PERMIT IS ISSUED, UNLESS THE TIME OF COMPLETION STATED IN THE APPLICATION CALLS FOR A LONGER OR SHORTER PERIOD THAN ONE YEAR, IN WHICH CASE THE TIME OF EXPIRATION ON THE PERMIT SHALL ALLOW A REASONABLE TIME TO COMPLETE THE WORK.

**PART 104.9.9 SUSPENSION OR REVOCATION**

AT ANY TIME, THE AUTHORITY HAVING JURISDICTION MAY SUSPEND OR REVOKE A PERMIT ISSUED IN ERROR, ISSUED ON THE BASIS OF INCORRECT INFORMATION SUBMITTED, OR ISSUED IN VIOLATION OF ANY PROVISION OF THIS CODE.

**PART 104.9.10 PERMITS FOR PUBLIC UTILITY SUBSTATIONS**
ALL PERMITS FOR A SUBSTATION ISSUED TO A PUBLIC SERVICE COMPANY, AS DEFINED IN TITLE 1 OF THE PUBLIC UTILITY COMPANIES ARTICLE OF THE ANNOTATED CODE OF MARYLAND, SHALL BE ISSUED TO EXPIRE FIVE YEARS AFTER THE DATE SUCH PERMIT IS ISSUED, PROVIDED THAT WITHIN ONE YEAR AFTER THE ISSUANCE OF THE PERMIT THE SITE IS FENCED AND LANDSCAPED AND A SIGN POSTED STATING THE PROPOSED USE OF THE COMPLETED PROJECT. HOWEVER, AS TO ANY PERMIT, THE AUTHORITY HAVING JURISDICTION IS HEREBY AUTHORIZED TO GRANT ANY EXTENSION OF TIME NOT IN EXCESS OF ONE YEAR IN WHICH TO COMPLETE THE WORK. IF THE WORK UNDER A PERMIT IS NOT COMPLETE BEFORE THE PERMIT EXPIRATION DATE OR ANY EXTENSION THEREOF GRANTED BY THE AUTHORITY HAVING JURISDICTION, THAT PERMIT BECOMES A NULLITY.

PART 104.10 FEES
PART 104.10.1 PERMIT FEE SCHEDULE
THE PERMIT FEES FOR ALL PLUMBING AND GASFITTING WORK SHALL BE IN ACCORDANCE WITH THE CURRENTLY EFFECTIVE FEE SCHEDULE ESTABLISHED BY THE COUNTY ADMINISTRATIVE OFFICER.

PART 104.10.2 PLAN REVIEW FEE
IF PLANS ARE REQUIRED TO BE SUBMITTED TO BE REVIEWED PRIOR TO ISSUING A PERMIT, THE AUTHORITY HAVING JURISDICTION MAY CHARGE A PLAN REVIEW FEE NOT TO EXCEED THE SUM OF $500.00. PLAN REVIEW FEES SHALL BE PAID IN FULL PRIOR TO REVIEW OF THE PLANS.

PART 104.10.3 PERMIT APPLICATION AND PLAN REVIEW EXPIRATION
PERMIT APPLICATIONS AND PLAN REVIEWS FOR WHICH NO PERMIT IS ISSUED SHALL EXPIRE 6 MONTHS FOLLOWING THE DATE OF THE APPLICATION. ANY REVIEWED PLANS MAY BE DESTROYED BY THE AUTHORITY HAVING JURISDICTION IF NOT RECLAIMED BY THEIR APPLICANT.

PART 104.10.4 WORK WITHOUT A PERMIT
WHEN ANY WORK IS PERFORMED ON-SITE WITHOUT FIRST OBTAINING A PERMIT FROM THE AUTHORITY HAVING JURISDICTION, AN INVESTIGATION
OF SUCH WORK SHALL BE MADE BY THE AUTHORITY HAVING JURISDICTION AND THE INVESTIGATION FEE PAID BEFORE A PERMIT MAY BE ISSUED.

PART 104.11 INSPECTIONS

PART 104.11.1 REQUIRED INSPECTIONS

ALL WORK SHALL BE CHECKED AND TESTED BY THE PERMITTEE AS REQUIRED BY THIS CODE. ALL WORK IS SUBJECT TO INSPECTION BY THE AUTHORITY HAVING JURISDICTION AS NECESSARY TO CONFIRM COMPLIANCE WITH THIS CODE.

PART 104.11.2 REQUESTS FOR INSPECTIONS

THE PERMITTEE SHALL NOTIFY THE AUTHORITY HAVING JURISDICTION WHEN THE WORK, OR ANY PORTION THEREOF, HAS BEEN COMPLETED AND TESTED AND IS READY FOR INSPECTION BY THE AUTHORITY HAVING JURISDICTION. THE PERMITTEE SHALL COORDINATE THE SCHEDULING OF THE REQUIRED INSPECTIONS WITH THE AUTHORITY HAVING JURISDICTION AND PROVIDE THE NECESSARY ACCESS AND MEANS OF TESTING AND OPERATION TO DEMONSTRATE THAT THE WORK IS COMPLIANT WITH THE REQUIREMENTS OF THIS CODE. WHERE WORK HAS BEEN CONCEALED PRIOR TO INSPECTION, IT SHALL BE MADE ACCESSIBLE AS REQUIRED UNTIL THE NECESSARY INSPECTIONS ARE COMPLETE.

PART 104.11.3 REINSPECTIONS

WHERE WORK DOES NOT PASS ITS INITIAL INSPECTION BY THE AUTHORITY HAVING JURISDICTION, THE WORK SHALL BE CORRECTED AND REINSPECTED.

PART 104.11.4 INSPECTION FEES

A. AN INSPECTION FEE MAY BE APPLIED BY THE AUTHORITY HAVING JURISDICTION FOR ANY OF THE FOLLOWING CONDITIONS:

1. FAILURE TO PROVIDE ACCESS FOR INSPECTION ON THE DATE AND TIME SCHEDULED.

2. FAILURE TO HAVE APPROVED PLANS ON SITE AVAILABLE TO THE INSPECTOR WHERE REQUIRED.
3. THE WORK IS NOT COMPLETED FOR THE SCHEDULED INSPECTION.

4. CORRECTIVE WORK IS NOT COMPLETED FOR RE-INSPECTION AS SCHEDULED.

5. CORRECTIVE WORK DOES NOT PASS ITS RE-INSPECTION.

6. THE WORK DEVIATES FROM APPROVED PLANS AND REQUIRES RESUBMITTAL, APPROVAL, AND RE-INSPECTION.

B. WHERE AN INSPECTION FEE IS ASSESSED, THE PERMITTEE SHALL PAY THE FEE BEFORE ANY FURTHER WORK ON THE PROJECT IS INSPECTED BY THE AUTHORITY HAVING JURISDICTION.

PART 104.12 FINAL CONNECTIONS

PART 104.12.1 PLUMBING PIPING

NO PLUMBING PIPING SHALL BE CONNECTED TO ANY FIXTURE, APPLIANCE, OR EQUIPMENT BEING INSTALLED PRIOR TO THE APPROVAL OF THE AUTHORITY HAVING JURISDICTION.

PART 104.12.2 ENERGY OR FUEL

NO SOURCES OF ENERGY OR FUEL SHALL BE CONNECTED TO ANY EQUIPMENT BEING INSTALLED PRIOR TO THE APPROVAL OF THE AUTHORITY HAVING JURISDICTION.

PART 104.12.3 TEMPORARY CONNECTIONS

SOURCES OF ENERGY OR FUEL USED ONLY FOR TESTING PURPOSES DURING INSTALLATION MAY BE TEMPORARILY CONNECTED TO EQUIPMENT WHEN AUTHORIZED IN WRITING BY THE AUTHORITY HAVING JURISDICTION.

PART 104.13 UNCONSTITUTIONALITY/SEVERABILITY

IF ANY PART, CHAPTER, SECTION, SUBSECTION, SENTENCE, CLAUSE, PHRASE, OR TABLE OF THIS CODE IS HELD FOR ANY REASON AS UNCONSTITUTIONAL, SUCH DECISION SHALL NOT AFFECT THE VALIDITY OF THE REMAINING PARTS, CHAPTERS, SECTIONS, SUBSECTIONS, SENTENCES, CLAUSES, PHRASES, OR TABLES OF THIS CODE.

PART 105 LICENSING

PART 105.1 PLUMBERS AND GASFITTERS
INDIVIDUALS PERFORMING PLUMBING AND GASFITTING WORK WITHIN THE SCOPE OF THIS CODE SHALL BE PROPERLY LICENSED IN ACCORDANCE WITH ARTICLE 21, TITLE 15, SUBTITLE 2 OF THE BALTIMORE COUNTY CODE.

PART 105.2 PROPANE GAS SERVICE INSTALLERS

INDIVIDUALS PERFORMING PROPANE GAS SERVICE INSTALLATION WORK WITHIN THE SCOPE OF THIS CODE SHALL BE QUALIFIED FOR THE INSTALLATION OF THE CONTAINERS, PIPING, AND ASSOCIATED EQUIPMENT FOR DELIVERING PROPANE GAS TO A BUILDING FOR USE AS ITS FUEL GAS BY BEING CERTIFIED FOR CATEGORIES 1.0, 4.1, AND 4.2 OF THE CERTIFIED EMPLOYEE TRAINING PROGRAM (CETP) OF THE NATIONAL PROpane GAS ASSOCIATION.

PART 200 NATIONAL STANDARD PLUMBING CODE

THE PARTS SET FORTH IN THIS PART 200 INCLUDE DELETIONS, ADDITIONS, REPLACEMENTS, AND AMENDMENTS TO THE NATIONAL STANDARD PLUMBING CODE ILLUSTRATED, PHCC, 2015 EDITION, IN ACCORDANCE WITH BILL 41-15, THE PLUMBING AND GASFITTING CODE OF BALTIMORE COUNTY.

PART 201 ILLUSTRATIONS, EXPLANATORY NOTES, AND COMMENTS


PART 202 APPENDICES

THE APPENDICES IN THE NATIONAL STANDARD PLUMBING CODE ILLUSTRATED INCLUDE SUPPLEMENTAL INFORMATION THAT CAN BE USED
IN THE DESIGN AND INSTALLATION OF PLUMBING SYSTEMS, BUT THEY DO NOT INCLUDE ENFORCEABLE CODE REQUIREMENTS UNLESS THE REQUIREMENTS ARE IDENTIFIED AS SUCH IN THE NATIONAL STANDARD PLUMBING CODE ILLUSTRATED.

**PART 203 DELETIONS**


**PART 204 ADDITIONS**

THE FOLLOWING ITEMS ARE ADDED TO THE NATIONAL STANDARD PLUMBING CODE ILLUSTRATED AND ADOPTED HEREIN: 1.2 END-USE DEVICE, 1.2 LEAD-FREE, 1.2 PIPE OR TUBE FITTING, 1.2 PLUMBING SUPPLY FITTING, 1.2 WEIGHTED AVERAGE LEAD CONTENT, 2.31, 10.5.9.1, 10.14.3.C, 10.15.9.3.A, 10.16.6.1, 10.20.8, 12.21, 12.21.1, 15.3.2, 17.2, AND 17.9.

**PART 205 REPLACEMENTS**

THE FOLLOWING ITEMS REPLACE THE EXISTING ITEMS IN THE NATIONAL STANDARD PLUMBING CODE ILLUSTRATED: 2.16.A.1, 2.16.A.2, TABLE 3.4.2, 3.4.6, 4.2.4.E, 4.3.9.C, 4.3.9.D, 5.4.7, 6.2.12, 7.2, 10.15.2, 10.15.7, 10.20.1, 13.1.13, 16.1.1, 16.6.1, 16.9.5, 17.1.2, AND 17.15.1, STANDARDS IN TABLE 19.1 - ASCE 24.

**PART 206 AMENDMENTS**

THE FOLLOWING ITEMS IN THE NATIONAL STANDARD PLUMBING CODE ILLUSTRATED ARE AMENDED BY CHANGES, ADDITIONS, OR DELETIONS: 2.19.1, 2.25.5, 3.1.5, TABLE 3.4, TABLE 3.5, TABLE 3.6, TABLE 3.7, 3.4.2, 10.5.9, 11.2.3, TABLE 11.5.1A, 13.1.2, 13.1.5.D, 16.3.4, 16.6.7, 16.9.2, AND 17.15.2.

**PART 207 COPIES OF ADDITIONS, REPLACEMENTS, AND AMENDMENTS**
COPIES OF THE ADDITIONS, REPLACEMENTS, AND AMENDMENTS TO ITEMS IN THE NATIONAL STANDARD PLUMBING CODE ILLUSTRATED ARE INCLUDED HEREIN.

CHAPTER 1 DEFINITIONS

1.2 END-USE DEVICE

A WATER SUPPLY DEVICE THAT DISPENSES POTABLE WATER SUCH AS A FAUCET, DRINKING FOUNTAIN, KITCHEN HOT WATER DISPENSER, BATHTUB AND/OR SHOWER FAUCET, SHOWER HEAD, FLUSH VALVE, HOSE BIBB, OR SUPPLY CONNECTION TO AN APPLIANCE.

1.2 LEAD-FREE

CONTAINING NOT MORE THAN A WEIGHTED AVERAGE OF 0.25% LEAD FOR THE WETTED SURFACES OF PIPES, TUBES, FITTINGS FOR PIPES AND TUBES, PLUMBING SUPPLY FITTINGS, END-USE DEVICES, AND FIXTURES. LEAD-FREE SOLDER CONTAINS NO MORE THAN 0.2% LEAD.

1.2 PIPE OR TUBE FITTING

A PIPING COMPONENT THAT CONNECTS PIPES OR TUBES, SUCH AS A COUPLING, ELBOW, REDUCER, TEE, FLANGE, UNION, OR FLEXIBLE CONNECTOR.

1.2 PLUMBING SUPPLY FITTING

A PIPING COMPONENT OTHER THAN A PIPE FITTING OR TUBE FITTING THAT PERFORMS A REQUIRED FUNCTION IN POTABLE WATER SUPPLY PIPING SUCH AS A FAUCET, ADAPTER, VALVE, STRAINER, FILTER, TEMPERATURE LIMITING OR CONTROL DEVICE, PRESSURE SWITCH, THERMOMETER WELL, EXPANSION COMPENSATOR, OR WATER HAMMER ARRESTOR.

1.2 WEIGHTED AVERAGE LEAD CONTENT

THE WEIGHTED AVERAGE LEAD CONTENT OF A PIPE, PIPE FITTING, PLUMBING FITTING, OR FIXTURE SHALL BE CALCULATED BY USING THE FOLLOWING FORMULA: FOR EACH WETTED COMPONENT, THE PERCENTAGE OF LEAD IN THE COMPONENT SHALL BE MULTIPLIED BY THE RATIO OF THE WETTED SURFACE AREA OF THAT COMPONENT TO THE TOTAL WETTED SURFACE AREA OF THE ENTIRE PRODUCT TO ARRIVE AT THE WEIGHTED

CHAPTER 2 GENERAL REQUIREMENTS

2.16 FREEZING OR OVERHEATING
A.1 THE MINIMUM EARTH COVER ABOVE THE TOP OF EXTERIOR WATER PIPING SHALL BE 36 INCHES.
A.2 THE MINIMUM EARTH COVER ABOVE THE TOP OF EXTERIOR BUILDING DRAINS AND BUILDING SEWERS SHALL BE 30 INCHES IF CONNECTED TO PUBLIC SEWAGE SYSTEMS AND 24 INCHES IF CONNECTED TO A PRIVATE SEWAGE DISPOSAL SYSTEM.

2.19 CONNECTION TO WATER AND SEWER SYSTEMS
2.19.1 PUBLIC WATER AND SEWER SHALL BE CONSIDERED AS AVAILABLE IF IT IS WITHIN 500 FEET OF ANY PROPERTY LINE OR OTHER REASONABLE DISTANCE AS DETERMINED BY THE AUTHORITY HAVING JURISDICTION.

2.25 FOOD HANDLING ESTABLISHMENTS AND FOOD HANDLING AREAS WITHIN BUILDINGS
2.25.5 SANITARY FLOOR SINKS SHALL BE INSTALLED FLUSH WITH THE SURROUNDING FINISHED FLOOR.

2.31 PLUMBING IN FLOOD HAZARD AREAS
A. PLUMBING IN BUILDINGS AND STRUCTURES THAT ARE LOCATED IN FLOOD HAZARD AREAS SHALL COMPLY WITH THE REQUIREMENTS OF BALTIMORE COUNTY FOR THE DESIGN AND CONSTRUCTION OF UTILITY SYSTEMS IN FLOOD-PRONE AREAS.
B. IN NEW CONSTRUCTION OR SUBSTANTIAL IMPROVEMENT, NO PLUMBING SHALL BE INSTALLED ON OR ABOVE THE LOWEST
FLOOR LEVEL UNTIL THE CONSTRUCTED ELEVATION OF THE LOWEST FLOOR HAS BEEN INSPECTED, MEASURED, VERIFIED FOR COMPLIANCE, DOCUMENTED, AND ACCEPTED BY BALTIMORE COUNTY.

C. PLUMBING WORK SHALL NOT BE INSTALLED ON OR PENETRATE THROUGH WALLS THAT ARE DESIGNED TO BREAK AWAY UNDER FLOOD CONDITIONS.

D. UNDERGROUND PIPING FOR WATER SERVICE, BUILDING DRAINS, AND BUILDING SEWERS SHALL BE INSTALLED ACCORDING TO ASCE 24, SECTION 7.3.1.

E. PLUMBING PIPING, FIXTURES, AND EQUIPMENT WITHIN A BUILDING OR STRUCTURE SHALL BE INSTALLED AT OR ABOVE THE REQUIRED BASE FLOOD ELEVATION (BFE) OR DESIGN FLOOD ELEVATION (DFE) AS INDICATED IN ASCE 24, TABLE 7-1. PLUMBING PIPING INCLUDES PIPING FOR WATER SERVICE, WATER DISTRIBUTION, SANITARY DRAINAGE, VENTING, AND STORM WATER DRAINAGE.

F. SANITARY DRAIN PIPING AND VENT PIPING SHALL BE INSTALLED ACCORDING TO ASCE 24, SECTION 7.3.4 TO PREVENT INFILTRATION FROM OR DISCHARGE INTO FLOODWATER.

G. VERTICAL PIPING FROM UNDERGROUND TO ABOVE THE FLOOD LEVEL ELEVATION SHALL BE SUPPORTED FROM A FLOOD-PROTECTED BUILDING STRUCTURAL MEMBER AND COVERED TO PROTECT IT FROM DAMAGE BY DEBRIS ACCORDING TO ASCE 24, SECTION 7.3.2.

H. WATER HEATERS SHALL BE INSTALLED AT AN ELEVATION AT OR ABOVE THE REQUIRED BFE OR DFE PROTECTION LEVEL IN ASCE 24, TABLE 7-1. IF INSTALLED IN AN ATTIC OR UNFINISHED AREA, THEY SHALL HAVE ADEQUATE STRUCTURAL SUPPORT, ACCESS FOR MAINTENANCE AND REPLACEMENT, AND A DRIP PAN PER NSPC SECTION 10.15.9 WITH DRAINAGE.
I. WHERE A PLUMBING FIXTURE OR PIPING HAS A DRAIN OR VENT OPENING BELOW THE REQUIRED BFE OR DFE PROTECTION LEVEL IN ASCE 24, TABLE 7-1 THAT IS SUBJECT TO BACKFLOW OR INFILTRATION, IT SHALL BE PROTECTED ACCORDING TO ASCE 24, SECTION 7.3.3.

J. MANHOLE COVERS SHALL BE SEALED UNLESS ELEVATED TO OR ABOVE THE REQUIRED BFE OR DFE PROTECTION LEVEL IN ASCE 24, TABLE 7-1.

CHAPTER 3 MATERIALS

3.1 MATERIALS

3.1.5 HEALTH EFFECTS ON DRINKING WATER COMPONENTS

REFER TO SECTION 3.4.6 FOR THE LIMIT ON THE LEAD CONTENT OF PIPES, TUBES, PIPE AND TUBE FITTINGS, PLUMBING SUPPLY FITTINGS, FIXTURES, AND END-USE DEVICES THAT ARE ANTICIPATED TO BE USED TO DISPENSE WATER FOR HUMAN CONSUMPTION BY DRINKING OR COOKING.

3.4 POTABLE WATER PIPING

TABLE 3.4 MATERIALS FOR POTABLE WATER PIPING

THE FOLLOWING AMENDMENTS IN TABLE 3.4 ARE WITH THE TABLES AT THE END OF PART 200 HEREIN.

WATER SERVICE PIPING MUST BE WATER PRESSURE RATED FOR NOT LESS THAN 200 PSI AT 73 DEG F INSTEAD OF 160 PSI. ASTM F2769 PE-RT, ASTM F876 PEX, ASTM F877 PEX, AND AWWA 904 PEX ARE NOT RATED FOR 200 PSI. ASTM B88 TYPE M COPPER, ASTM D2846 CPVC, ASTM F441 SCHEDULE 40 CPVC AND ASTM F442 CPVC ARE NOT APPROVED FOR INSTALLATION UNDERGROUND.

TABLE 3.4.2 PLASTIC WATER SERVICE PIPING

WATER SERVICE PIPING MUST BE WATER PRESSURE RATED FOR NOT LESS THAN 200 PSI AT 73 DEG F INSTEAD OF 160 PSI. THIN-WALL CPVC PIPING IN TABLE 3.4 IS NOT APPROVED FOR INSTALLATION UNDERGROUND. REPLACEMENT TABLE 3.4.2 IS INCLUDED WITH THE TABLES AT THE END OF PART 200 HEREIN.

3.4.6 LIMITS ON LEAD CONTENT
A. PIPES, TUBES, FITTINGS FOR PIPES AND TUBES, PLUMBING SUPPLY
FITTINGS, FIXTURES, AND END-USE DEVICES THAT ARE
ANTICIPATED TO BE USED TO DISPENSE POTABLE WATER FOR
HUMAN CONSUMPTION BY DRINKING AND COOKING SHALL BE
"LEAD-FREE", CONTAINING NOT MORE THAN A WEIGHTED
AVERAGE OF 0.25% LEAD WITH RESPECT TO THE WETTED
SURFACES, AS DEFINED IN SECTION 1.2 OF THIS CODE.

B. SOLDER FOR JOINTS IN "LEAD-FREE" POTABLE WATER PIPING
SHALL NOT CONTAIN MORE THAN 0.2% LEAD. FLUX SHALL BE
RATED FOR USE WITH "LEAD-FREE" SOLDER.

C. POTABLE WATER SUPPLY COMPONENTS THAT ARE WITHIN THE
SCOPE OF NSF 61 FOR DRINKING WATER SYSTEM COMPONENTS
AND ARE REQUIRED TO BE "LEAD-FREE" SHALL BE CERTIFIED TO
COMPLY WITH NSF 61 AND NSF 372.

D. POTABLE WATER SUPPLY COMPONENTS THAT ARE NOT WITHIN
THE SCOPE OF NSF 61 FOR DRINKING WATER SYSTEM
COMPONENTS BUT ARE REQUIRED TO BE "LEAD-FREE" SHALL BE
CERTIFIED TO COMPLY WITH NSF 372.

E. POTABLE WATER SUPPLY COMPONENTS THAT ARE NOT
REQUIRED TO BE "LEAD-FREE" SHALL BE RATED FOR USE WITH
POTABLE WATER AND SHALL NOT CONTAIN MORE THAN 8% LEAD
BY DRY WEIGHT.

F. THE FOLLOWING POTABLE WATER END-USE DEVICES AND WATER
SUPPLY PIPING ARE ANTICIPATED TO BE USED TO CONVEY
WATER FOR HUMAN CONSUMPTION THROUGH DRINKING OR
COOKING AND SHALL BE "LEAD-FREE", INCLUDING THEIR
ASSOCIATED SUPPLY PIPING:

   1. KITCHEN SINK FAUCETS
   2. BAR SINK FAUCETS
   3. PRIVATE BATHROOM SINK FAUCETS
   4. DRINKING FOUNTAIN FAUCETS
5. KITCHEN HOT WATER DISPENSERS
6. POINT-OF-USE WATER TREATMENT DEVICES
7. THE WATER SUPPLY TO ICE MAKERS
8. THE WATER SUPPLY TO POTABLE WATER HEATERS
9. RECIRCULATED HOT WATER PIPING
10. THE WATER SUPPLY TO MISTING SYSTEMS FOR PRODUCE IN FOOD MARKETS
11. THE WATER SUPPLY TO COOKING EQUIPMENT FOR FOOD IN COMMERCIAL KITCHENS
12. THE WATER SUPPLY TO PRODUCTION EQUIPMENT FOR PROCESSED FOOD CONTAINING WATER
13. ANY OTHER END-USE DEVICES, EQUIPMENT, AND PIPING THAT CONVEY WATER FOR HUMAN CONSUMPTION.

EXCEPTION: TANK-TYPE WATER HEATERS SHALL NOT BE REQUIRED TO BE "LEAD-FREE" UNLESS THERE IS AN INDUSTRY STANDARD FOR "LEAD-FREE" TANK-TYPE WATER HEATERS AND THEY ARE REQUIRED BY THE AUTHORITY HAVING JURISDICTION.

G. THE FOLLOWING PIPING COMPONENTS SHALL BE "LEAD-FREE" WHEN ASSOCIATED WITH "LEAD-FREE" END-USE DEVICES AND PIPING THAT IS REQUIRED TO BE "LEAD-FREE:"
1. MAIN SERVICE SHUTOFF VALVES
2. WATER SERVICE BACKFLOW PREVENTION ASSEMBLIES AND DEVICES
3. WATER METERS
4. PRESSURE BOOSTER PUMPS
5. PRESSURE REDUCING VALVES
6. STRAINERS
7. WATER FILTERS
8. CHECK VALVES
9. CONTROL VALVES
10. VACUUM BREAKERS
11. WATER HAMMER ARRESTORS
12. MASTER HOT WATER MIXING VALVES
13. IN-LINE TEMPERING VALVES
14. HOT WATER RECIRCULATING PUMPS
15. BRANCH PIPING SHUTOFF VALVES
16. BALANCING VALVES
17. FIXTURE SHUTOFF VALVES
18. SOLENOID VALVES
19. TANKLESS WATER HEATERS
20. ANY OTHER PIPING COMPONENTS ASSOCIATED WITH END-USE DEVICES OR PIPING THAT ARE REQUIRED TO BE "LEAD-FREE"

H. THE FOLLOWING POTABLE WATER END-USE DEVICES, WATER SUPPLIES, AND COMPONENTS ARE NOT ANTICIPATED TO CONvey WATER FOR HUMAN CONSUMPTION THROUGH DRINKING OR COOKING AND ARE NOT REQUIRED TO BE "LEAD-FREE", INCLUDING THEIR ASSOCIATED WATER SUPPLY PIPING.
1. BATHTUB FAUCETS
2. SHOWER VALVES, HEADS, AND ADAPTERS
3. TANK-TYPE WATER HEATERS
4. FLUSH VALVES FOR WATER CLOSETS
5. FLUSH VALVES FOR URINALS
6. FLUSH VALVES FOR BIDETS
7. SHUTOFF VALVES FOR CLOTHES WASHING MACHINES
8. LAVATORY FAUCETS IN PUBLIC TOILET ROOMS
9. LAUNDRY SINK FAUCETS
10. SERVICE SINK FAUCETS
11. FAUCETS FOR LABORATORY APPLICATIONS
12. HOSE BIBBS
13. TRAP SEAL PRIMING DEVICES
14. BACKFLOW PREVENTION DEVICES THAT SUPPLY NON-POTABLE APPLICATIONS
15. FIRE HOSE VALVES
16. WATER HAMMER ARRESTERS
17. THE WATER SUPPLY TO DISH WASHERS
18. THE WATER SUPPLY TO WHIRLPOOLS, SPAS, THERAPY POOLS, AND SWIMMING POOLS
19. THE WATER SUPPLY TO BOILERS AND HEATING HOT WATER GENERATORS
20. THE WATER SUPPLY TO HUMIDIFIERS
21. THE WATER SUPPLY TO IRRIGATION SYSTEMS AND OTHER NON-POTABLE APPLICATIONS
22. THE WATER SUPPLY TO FOOD PRODUCTION EQUIPMENT THAT DOES NOT CONTACT THE FOOD
23. ANY OTHER END-USE DEVICES AND WATER SUPPLIES THAT DO NOT CONVEY WATER FOR HUMAN CONSUMPTION

EXCEPTION: TANK-TYPE WATER HEATERS SHALL NOT BE REQUIRED TO BE "LEAD-FREE" UNLESS THERE IS AN INDUSTRY STANDARD FOR "LEAD-FREE" TANK-TYPE WATER HEATERS AND THEY ARE REQUIRED BY THE AUTHORITY HAVING JURISDICTION.

TABLE 3.5 MATERIALS FOR SANITARY WASTE AND DRAIN PIPING
THE AMENDMENTS TO TABLE 3.5 ARE LOCATED IN THE TABLES AT THE END OF PART 200 HEREIN.

TABLE 3.6 MATERIALS FOR VENT PIPING
THE AMENDMENTS TO TABLE 3.6 ARE LOCATED IN THE TABLES AT THE END OF PART 200 HEREIN.

TABLE 3.7 MATERIALS FOR STORM DRAIN PIPING THE AMENDMENTS TO TABLE 3.7 ARE LOCATED IN THE TABLES AT THE END OF PART 200 HEREIN.

CHAPTER 4 JOINTS AND CONNECTIONS

4.2 TYPES OF JOINTS FOR PIPING MATERIALS
4.2.4 SOLDERED
E. SOLDER FOR "LEAD-FREE" JOINTS SHALL CONTAIN NO MORE THAN 0.2% LEAD. FLUX SHALL BE RATED FOR USE WITH "LEAD-FREE" SOLDER.

4.3 TYPES OF JOINTS BETWEEN DIFFERENT PIPING MATERIALS

4.3.9 PLASTIC DWV PIPE TO OTHER MATERIALS

C. SOLID WALL PVC SCHEDULE 40 DWV PLASTIC PIPE INTO CAST-IRON HUB ENDS: WHERE SOLID WALL PVC SCHEDULE 40 DWV PLASTIC PIPE IS CONNECTED TO A SERVICE WEIGHT CAST-IRON HUB END, A HUB END ADAPTER SHALL BE LEAD CAULKED INTO THE HUB OR INSERTED INTO A COMPRESSION GASKET IN THE HUB AND SOLVENT CEMENTED TO THE PVC PIPE. ADAPTERS WITHOUT A CAULKING BEAD SHALL BE PERMITTED TO BE LEAD CAULKED. WHERE SOLID WALL PVC SCHEDULE 40 DWV PLASTIC PIPE IS CONNECTED TO AN EXTRA HEAVY CAST-IRON HUB END, THE JOINT SHALL BE PERMITTED TO BE LEAD CAULKED OR INSERTED INTO A COMPRESSION GASKET IN THE HUB WITHOUT AN ADAPTER. SEE FIGURES 4.3.9-B THROUGH 4.3.9-D

D. CELLULAR CORE PVC SCHEDULE 40 DWV PLASTIC PIPE INTO CAST-IRON HUB ENDS: WHERE CELLULAR CORE PVC SCHEDULE 40 DWV PLASTIC PIPE IS CONNECTED TO A SERVICE WEIGHT CAST-IRON HUB END, A HUB END ADAPTER SHALL BE LEAD CAULKED INTO THE HUB OR INSERTED INTO A COMPRESSION GASKET IN THE HUB AND SOLVENT CEMENTED TO THE PVC PIPE. ADAPTERS WITHOUT A CAULKING BEAD SHALL BE PERMITTED TO BE LEAD CAULKED. WHERE CELLULAR CORE PVC SCHEDULE 40 DWV PLASTIC PIPE IS CONNECTED TO AN EXTRA HEAVY CAST-IRON HUB END, THE JOINT SHALL BE PERMITTED TO BE MADE WITH A COMPRESSION GASKET IN THE HUB WITHOUT AN ADAPTER. CELLULAR CORE PLASTIC PIPE SHALL NOT BE LEAD CAULKED.

CHAPTER 5 TRAPS, CLEANOUTS, AND BACKWATER VALVES

5.4 DRAIN PIPE CLEANOUTS
5.4.7 DIRECTION OF FLOW

A. CLEANOUTS SHALL BE INSTALLED SO THAT THEIR CONNECTION TO THE DRAIN LINE OPENS IN ITS DIRECTION OF FLOW.

B. TWIN CLEANOUTS AND TWO-WAY CLEANOUTS ARE PROHIBITED.

CHAPTER 6 LIQUID WASTE TREATMENT EQUIPMENT

6.2 GREASE INTERCEPTORS

6.2.12 COMBINATION SYSTEMS

A COMBINATION OF INTERIOR HYDRO-MECHANICAL AND EXTERIOR GRAVITY GREASE INTERCEPTORS SHALL BE PERMITTED IF NECESSARY TO MEET THE SEPARATION NEEDS OF THE AUTHORITY HAVING JURISDICTION WHERE SPACE OR EXISTING PHYSICAL CONSTRAINTS OF EXISTING STRUCTURES NECESSITATES SUCH INSTALLATIONS.

CHAPTER 7 PLUMBING FIXTURES, FIXTURE FITTINGS, AND PLUMBING APPLIANCES

7.2 FIXTURES FOR ACCESSIBLE USE

PLUMBING FIXTURES FOR ACCESSIBLE USE AND THEIR INSTALLATION SHALL COMPLY WITH THE MARYLAND ACCESSIBILITY CODE (COMAR 05.02.02) FOR FACILITIES WITHIN ITS SCOPE.

CHAPTER 10 WATER SUPPLY AND DISTRIBUTION

10.5 BACKFLOW PREVENTION

10.5.9 PROTECTION FROM FIRE SYSTEMS

EXCEPTIONS:

6. IN EXCEPTION (4) FOR FIRE SPRINKLER SYSTEMS WITH A FIRE DEPARTMENT CONNECTION, ASSE 1015 OR ASSE 1048 DOUBLE CHECK BACKFLOW PREVENTERS MAY BE USED IN LIEU OF ASSE 1013 OR ASSE 1047 REDUCED PRESSURE BACKFLOW PREVENTERS IF APPROVED BY THE AUTHORITY HAVING JURISDICTION, BASED ON THE POTENTIAL BACKFLOW HAZARD.

7. IN EXCEPTION (1) FOR NFPA 13D RESIDENTIAL FIRE SPRINKLER SYSTEMS, IF THERE IS INSUFFICIENT PRESSURE IN THE PUBLIC WATER SUPPLY FOR AN ASSE 1024 DUAL CHECK BACKFLOW
PREVENTER, THE AUTHORITY HAVING JURISDICTION MAY PERMIT THE USE OF A SINGLE CHECK VALVE IF ALL OF THE REQUIREMENTS OF SECTION 10.5.9.1 ARE MET.

10.5.9.1 INSUFFICIENT PRESSURE FOR A BACKFLOW PREVENTER

A. IF THE MINIMUM AVAILABLE WATER PRESSURE IN A PUBLIC WATER SUPPLY IS INSUFFICIENT TO OVERCOME THE RATED PRESSURE DROP FOR THE REQUIRED BACKFLOW PREVENTER LISTED IN SECTION 10.5.9 FOR AN NFPA 13D ONE- OR TWO FAMILY RESIDENTIAL FIRE SPRINKLER SYSTEM, THE AUTHORITY HAVING JURISDICTION MAY PERMIT THE INSTALLATION OF A SINGLE CHECK VALVE FOR BACKFLOW PROTECTION IF ALL OF THE FOLLOWING CONDITIONS ARE MET:

1. THE FIRE SPRINKLER SYSTEM IS DESIGNED ACCORDING TO NFPA 13D.

2. THE PIPING MATERIALS IN THE FIRE SPRINKLER SYSTEM, INCLUDING THE SPRINKLERS, ARE "LEAD-FREE" AND APPROVED FOR POTABLE WATER IN ACCORDANCE WITH SECTION 3.4.6.

3. THE WATER SERVICE PIPING IS INCREASED TO 1-1/2" MINIMUM PIPE SIZE.

4. THE WATER METER IS INCREASED TO 1" MINIMUM PIPE SIZE.

5. THE SHUTOFF VALVE FOR THE FIRE SPRINKLER SYSTEM IS A GATE VALVE, FULL-PORTED BALL VALVE, OR OTHER FULL-WAY VALVE.

6. THE FIRE SPRINKLER SYSTEM IS FILLED WITH POTABLE WATER AND CONTAINS NO ANTI-FREEZE SOLUTIONS OR OTHER CHEMICAL ADDITIVES.

7. THE CHECK VALVE IS RESILIENTLY SEATED AND IS APPROVED BY THE AUTHORITY HAVING JURISDICTION.
PRESSURE GAUGES ARE INSTALLED ON THE INLET AND OUTLET SIDES OF THE CHECK VALVE TO INDICATE LEAKAGE BACKFLOW FROM THE FIRE SPRINKLER SYSTEM.

10.14 MINIMUM REQUIREMENTS FOR WATER DISTRIBUTION SYSTEMS

10.14.3 SIZING WATER DISTRIBUTION PIPING

C. THE MINIMUM SIZE OF WATER SUPPLY PIPING SERVICING TWO OR MORE PLUMBING FIXTURES SHALL BE ¾-INCH.

10.15 HOT WATER

10.15.2 HOT WATER TEMPERATURE MAINTENANCE WHERE REQUIRED

A. WHERE THE DEVELOPED LENGTH OF THE HOT WATER SUPPLY PIPING TO ANY HOT WATER OUTLET EXCEEDS 100 FEET FROM THE HOT WATER SOURCE, THE SYSTEM SHALL MAINTAIN THE TEMPERATURE OF THE HOT WATER TO WITHIN 25 FEET OF THAT OUTLET.

B. WHERE TEMPERATURE MAINTENANCE IS REQUIRED BY SECTION 10.15.2.A, THE HOT WATER TEMPERATURE WITHIN THE PIPING SHALL BE MAINTAINED BY RECIRCULATION OR HEAT TRACING OF THE HOT WATER PIPING. THE TEMPERATURE OF THE HOT WATER IN THE PIPING SHALL BE MAINTAINED BY AUTOMATIC CONTROLS WITH MANUAL AUTO-OFF.

C. HOT WATER SOURCES SHALL INCLUDE HOT WATER HEATERS AND HOT WATER SUPPLY PIPING THAT IS RECIRCULATED OR HEAT TRACED FROM A HOT WATER SOURCE.

D. RECIRCULATED HOT WATER SHALL BE RETURNED TO THE HOT WATER SOURCE THROUGH DEDICATED HOT WATER RETURN PIPING. RETURN PIPING SHALL HAVE MEANS OF ADJUSTING THE WATER FLOW RATE IN EACH SECTION OF RECIRCULATED SUPPLY PIPING.

E. EXCEPTION: A DEMAND-CONTROLLED HOT WATER SUPPLY UNIT SERVING AN INDIVIDUAL PLUMBING FIXTURE SHALL BE PERMITTED TO RETURN WATER TO THAT FIXTURE’S COLD WATER
SUPPLY UNTIL HOT WATER REACHES THAT FIXTURE AND THE
DEMAND CYCLE STOPS.

F. THE REQUIREMENTS OF THIS SECTION FOR TEMPERATURE
MAINTENANCE SHALL ALSO APPLY TO TEMPERED WATER
SUPPLY PIPING.

10.15.7 THERMAL EXPANSION CONTROL

A. WHERE A WATER PRESSURE REGULATOR (WITH OR WITHOUT AN
INTERNAL THERMAL EXPANSION BYPASS), A BACKFLOW
PREVENTER, OR A CHECK VALVE IS INSTALLED SUCH THAT A
CLOSED SYSTEM IS CREATED BETWEEN HOT WATER HEATING
EQUIPMENT AND THE INCOMING WATER SERVICE, A THERMAL
EXPANSION TANK SHALL BE PROVIDED.

B. EXCEPTIONS: (1) INSTANTANEOUS WATER HEATERS. (2) WELL
SYSTEMS WITH WATER PRESSURE TANKS.

C. THERMAL EXPANSION TANKS SHALL BE THE ADJUSTABLE PRE-
CHARGED TYPE FOR POTABLE WATER, ASME STEEL
CONSTRUCTION WITH A FLEXIBLE BLADDER OR BELLOWS,
RATED FOR NOT LESS THAN 125 PSIG AND 200 DEG F, AND SIZED
TO LIMIT THE WATER SYSTEM PRESSURE TO NO HIGHER THAN 100
PSIG. TANKS SHALL BE SIZED, INSTALLED, AND ADJUSTED IN
ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

D. THERMAL EXPANSION TANKS SHALL BE CONNECTED TO THE
COLD WATER SUPPLY PIPING FOR THE HOT WATER HEATING
EQUIPMENT, BETWEEN THE HEATING EQUIPMENT AND ITS COLD
WATER SHUTOFF VALVE.

10.15.9 DRIP PANS

10.15.9.3 DRAINAGE

A. DRIP PAN DRAINS SHALL NOT DISCHARGE TO THE FLOOR UNLESS
APPROVED BY THE AUTHORITY HAVING JURISDICTION.

10.16 SAFETY DEVICES FOR PRESSURE VESSELS

10.16.6 RELIEF VALVE PIPING
I. RELIEF VALVES SHALL NOT DISCHARGE TO THE FLOOR UNLESS APPROVED BY THE AUTHORITY HAVING JURISDICTION.

10.20 NFPA 13D MULTIPURPOSE RESIDENTIAL FIRE SPRINKLER SYSTEMS

10.20.1 WHERE PERMITTED.

NFPA 13D MULTIPURPOSE RESIDENTIAL FIRE SPRINKLER SYSTEMS ARE PERMITTED IN BALTIMORE COUNTY.

10.20.8 “LEAD-FREE” PIPING REQUIREMENTS

A. NFPA 13D MULTIPURPOSE PIPING SYSTEMS SHALL COMPLY WITH THE “LEAD-FREE” REQUIREMENTS OF THIS CODE IF THE PIPING, INCLUDING PARALLEL LOOPED BRANCHES, SUPPLIES ONE OR MORE END-USE DEVICES OR EQUIPMENT THAT ARE REQUIRED TO BE “LEAD-FREE”.

B. IF ONE OR MORE FIRE SPRINKLERS IN A MULTIPURPOSE SYSTEM ARE LOCATED IN PIPING THAT IS REQUIRED TO BE "LEAD-FREE", ALL OF THE FIRE SPRINKLERS IN THAT SYSTEM SHALL BE “LEAD-FREE”.

CHAPTER 11 SANITARY DRAINAGE SYSTEMS

11.2 BUILDING SEWERS AND BUILDING DRAINS

11.2.3 BUILDING SEWER AND BUILDING DRAIN SIZE.

EXCEPTIONS

1. BUILDING SEWERS SHALL BE NOT LESS THAN 4-INCH PIPE SIZE.

2. BUILDING DRAINS SHALL BE NOT LESS THAN 4-INCH PIPE SIZE FROM THEIR CONNECTION TO THE BUILDING SEWER TO THEIR CONNECTION TO THE FIRST DRAIN STACK OR BRANCH DRAIN SERVING TWO OR MORE FIXTURES.

11.5 DETERMINING DRAIN PIPE SIZES

TABLE 11.5.1A BUILDING DRAINS AND SEWERS

NOTES FOR TABLE 11.5.1A

3. BUILDING DRAINS SHALL BE NOT LESS THAN 4-INCH PIPE SIZE FROM THEIR CONNECTION TO THE BUILDING SEWER TO THEIR
CONNECTION TO THE FIRST DRAIN STACK OR BRANCH DRAIN SERVING TWO OR MORE FIXTURES.

4. BUILDING SEWERS SHALL BE NOT LESS THAN 4-INCH PIPE SIZE.

CHAPTER 12 VENTS AND VENTING

12.21 AIR ADMITTANCE VALVES

12.21.1 LIMITED USE

A. AN INDIVIDUAL FIXTURE MAY BE VENTED BY AN AIR ADMITTANCE VALVE UNDER THE FOLLOWING CONDITIONS, IF PERMITTED BY THE AUTHORITY HAVING JURISDICTION:

1. THE FIXTURE IS AN ADDITION OR MODIFICATION TO AN EXISTING PLUMBING SYSTEM.

2. THE FIXTURE IS A LAVATORY OR SINK HAVING A 1-1/4" OR 1-1/2" DRAIN CONNECTION. TWO SUCH FIXTURES CONNECTED TO A VERTICAL DRAIN AT THE SAME LEVEL MAY BE COMMON VENTED BY ONE AIR ADMITTANCE VALVE.

3. THERE IS AN EXISTING PHYSICAL CONDITION THAT PREVENTS THE PROPER INSTALLATION OF A VENT PIPE FOR THE FIXTURE.


5. THE AIR ADMITTANCE VALVE IS INSTALLED VERTICALLY AT LEAST 4 INCHES ABOVE THE FIXTURE TRAP ARM.

6. THE AIR ADMITTANCE VALVE COMPLIES WITH ASSE 1051 FOR INDIVIDUAL FIXTURES AND IS INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

7. THE AIR ADMITTANCE VALVE IS LOCATED WHERE THERE IS FREE MOVEMENT OF ITS REQUIRED INLET AIR AND THE VALVE IS ACCESSIBLE FOR REPLACEMENT.

8. THE FIXTURE DRAIN PIPING BEYOND THE AIR ADMITTANCE VALVE IS CONNECTED TO SANITARY DRAIN PIPING SERVING FIXTURES THAT ARE VENTED BY PIPING IN ACCORDANCE WITH CHAPTER 12.
9. THE AIR ADMITTANCE VALVE SHALL NOT BE INSTALLED UNTIL AFTER THE LEAK TESTING OF THE ROUGH PLUMBING IS SUCCESSFULLY COMPLETED IN ACCORDANCE WITH SECTION 15.4.1. THE AIR ADMITTANCE VALVE SHALL THEN BE INSTALLED AND GAS LEAK TESTED WITH THE FINISHED PLUMBING IN ACCORDANCE WITH SECTION 15.4.2.

CHAPTER 13 STORM WATER DRAINAGE

13.1 GENERAL

13.1.2 STORM WATER DRAINAGE TO SANITARY SEWER PROHIBITED
STORM WATER, INCLUDING FOUNDATION DRAINAGE, SHALL NOT BE DRAINED INTO SEWERS INTENDED FOR SEWAGE ONLY, UNLESS APPROVED BY THE AUTHORITY HAVING JURISDICTION.

13.1.5 FOUNDATION DRAINS

D. DRAINAGE FROM FOUNDATIONS SHALL BE DISCHARGED TO A STORM DRAIN, STREET, ALLEY, APPROVED WATER COURSE, OR AT GRADE. WHEN DISCHARGED AT GRADE, THE POINT OF DISCHARGE SHALL BE AT LEAST 10 FEET FROM ANY PROPERTY LINE WHERE POSSIBLE.

13.1.13 WATER-OPERATED SUMP PUMPS

A. WATER-OPERATED SUMP PUMPS SHALL NOT BE USED AS A PRIMARY SUMP PUMP. THEY SHALL BE SECONDARY TO AN ELECTRIC-POWERED SUMP PUMP.

B. BACKFLOW PROTECTION FOR THE WATER SUPPLY TO A WATER-OPERATED SUMP PUMP SHALL BE AN ASSE 1013 (RP) REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER IN ACCORDANCE WITH SECTION 10.5.13.D. VACUUM BREAKERS ARE NOT PERMITTED.

CHAPTER 15 TESTS AND MAINTENANCE

15.3 TESTING OF PLUMBING SYSTEMS

15.3.2 EXISTING CONCEALED WORK
A. WHERE AN EXISTING CONCEALED SEWER OR DRAIN IS REUSED AS PART OF A NEW OR RENOVATED DRAINAGE SYSTEM, THE LINE SHALL BE TRACED TO ITS POINT OF TERMINATION AND SHALL BE TESTED TO DETERMINE THAT:

1. IT IS CONNECTED TO THE PROPER DRAINAGE SYSTEM, SUCH AS SANITARY OR STORM,
2. IT WILL WITHSTAND A LEAK TEST, AND
3. IT IS FREE-FLOWING AND NOT RESTRICTED.

CHAPTER 16 REGULATIONS GOVERNING INDIVIDUAL SEWAGE DISPOSAL SYSTEMS FOR HOMES AND OTHER ESTABLISHMENTS WHERE PUBLIC SEWAGE SYSTEMS ARE NOT AVAILABLE

16.1 GENERAL PROVISIONS

16.1.1 GENERAL

THE USE AND MAINTENANCE OF AN ON-SITE SEWAGE DISPOSAL SYSTEM IS GOVERNED BY TITLE 9 OF THE ENVIRONMENT ARTICLE OF THE ANNOTATED CODE OF MARYLAND AND CHAPTERS 26.04.02 AND 26.04.03 OF THE CODE OF MARYLAND REGULATIONS. THESE STATE OF MARYLAND REGULATIONS ARE HEREFIN ADOPTED BY REFERENCE.

16.3 DESIGN OF INDIVIDUAL SEWAGE DISPOSAL SYSTEMS

16.3.4 DISCHARGE

THE SYSTEM SHALL CONSIST OF A SEPTIC TANK, INCLUDING BEST AVAILABLE TECHNOLOGY (BAT), DISCHARGING INTO A CONVENTIONAL OR NON-CONVENTIONAL ON-SITE SEWAGE DISPOSAL SYSTEM WITHIN AN APPROVED ON-SITE DISPOSAL AREA, IF FOUND ADEQUATE AS SUCH AND APPROVED BY THE DIRECTOR OF THE DEPARTMENT OF ENVIRONMENTAL PROTECTION AND SUSTAINABILITY OR THE DIRECTOR’S DESIGNEE.

16.6 CAPACITY OF SEPTIC TANKS

16.6.1 LIQUID CAPACITY

A. THE LIQUID CAPACITY OF SEPTIC TANKS FOR SINGLE DWELLING UNITS HAVING UP TO FIVE BEDROOMS SHALL BE NOT LESS THAN 1500 GALLONS. AN ADDITIONAL 250 GALLONS OF CAPACITY
SHALL BE PROVIDED FOR EACH BEDROOM IN EXCESS OF FIVE.
SINGLE DWELLING UNITS HAVING THREE OR MORE BEDROOMS
SHALL BE SERVED BY SEPTIC TANKS HAVING TWO
COMPARTMENTS.

B. REQUIRED SEPTIC TANK CAPACITIES FOR BUILDINGS OTHER
THAN SINGLE DWELLING UNITS SHALL BE DETERMINED BY THE
DIRECTOR OF THE DEPARTMENT OF ENVIRONMENTAL
PROTECTION AND SUSTAINABILITY, OR THE DIRECTOR'S
DESIGNEE, BASED ON THE PROJECTED PEAK SEWAGE FLOW OR
OTHER PERTINENT CRITERIA.

16.6.7 DEPTH OF SEPTIC TANK
THE TOP OF THE SEPTIC TANK SHALL BE BROUGHT TO WITHIN 24 INCHES OF
THE FINISHED GRADE. AN ACCESS MANHOLE MUST BE EXTENDED TO THE
FINISHED GRADE.

16.9 ABSORPTION TRENCHES

16.9.2 FILTER MATERIAL
THE FILTER MATERIAL SHALL COVER THE ABSORPTION LINES AND EXTEND
THE FULL WIDTH OF THE TRENCH AND SHALL BE NOT LESS THAN 6 INCHES
DEEP BENEATH THE BOTTOM OF THE ABSORPTION LINES, AND 2 INCHES
ABOVE THE TOP OF THE ABSORPTION LINES. THE FILTER MATERIAL MAY BE
WASHED GRAVEL, CRUSHED STONE, SLAG, OR CLEAN BANK-RUN GRAVEL
RANGING FROM 1/2 TO 2-1/2 INCHES. THE FILTER MATERIAL SHALL BE
COVERED WITH BURLAP, FILTER CLOTH, 2 INCHES OF STRAW, OR
EQUIVALENT PERMEABLE MATERIAL PRIOR TO BACKFILLING THE
EXCAVATION.

16.9.5 ABSORPTION LINES
ABSORPTION LINES SHALL BE 4 INCH PERFORATED PLASTIC PIPE
CONFORMING TO APPROVED STANDARDS. VERTICAL OBSERVATION PIPES
SHALL BE PROVIDED AT THE END OF EACH ABSORPTION LINE THAT IS 4 FEET
OR MORE IN DEPTH. OBSERVATION PIPES SHALL BE PERFORATED WITHIN
THE ENTIRE DEPTH OF THE FILTER MATERIAL. THE PORTION OF
OBSERVATION PIPES THAT IS ABOVE THE FILTER MATERIAL SHALL BE SOLID
EXTENDING TO 4 INCHES MINIMUM ABOVE GRADE AND BE CLOSED WITH A
REMOVABLE CAP.

CHAPTER 17 PRIVATE POTABLE WATER SUPPLY SYSTEMS

17.1 GENERAL REGULATIONS

17.1.2 CODE REFERENCES
WATER WELL CONSTRUCTION IN THE STATE OF MARYLAND IS REGULATED
UNDER AUTHORITY OF TITLE 9, SUBTITLE 13, OF THE ENVIRONMENT ARTICLE
OF THE ANNOTATED CODE OF MARYLAND AND CHAPTER 26.04.04 OF THE
CODE OF MARYLAND REGULATIONS (COMAR). ADDITIONALLY, NON-
COMMUNITY POTABLE WATER SYSTEMS ARE GOVERNED BY COMAR
CHAPTER 26.04.02. THESE STATE OF MARYLAND REGULATIONS ARE HEREIN
ADOPTED BY REFERENCE.

17.2 QUANTITY OF WATER REQUIRED

A. THE QUANTITY OF WATER REQUIRED SHALL BE SUBJECT TO THE
REQUIREMENTS IN COMAR 26.04.04.P, WHICH ARE ADOPTED
HEREIN BY REFERENCE.

B. WHERE THE AVAILABLE PRIMARY SOURCE OF WATER DOES NOT
MEET THE REQUIREMENTS OF SECTION 17.2.A, ONE OF THE
FOLLOWING SECONDARY WATER SUPPLY SOURCES SHALL BE
PROVIDED:
1. A PRESSURE STORAGE TANK OF SUFFICIENT SIZE.
2. A GRAVITY STORAGE TANK OF SUFFICIENT SIZE AND A
PRESSURE BOOSTER PUMP SYSTEM

17.9 WELL TERMINALS
WELL TERMINALS SHALL BE SUBJECT TO THE REQUIREMENTS OF COMAR
26.04.04.21, WHICH ARE ADOPTED HEREIN BY REFERENCE.

17.15 INTERCONNECTIONS

17.15.1 BETWEEN SYSTEMS
THERE SHALL BE NO CONNECTIONS BETWEEN A PRIVATE POTABLE WATER
SUPPLY SYSTEM AND A PUBLIC WATER SUPPLY SYSTEM.
17.15.2 BETWEEN PROPERTIES

NO PRIVATE POTABLE WATER SUPPLY SYSTEM SHALL SERVE MORE THAN ONE PROPERTY UNLESS APPROVED BY THE AUTHORITY HAVING JURISDICTION.

CHAPTER 19 REFERENCED STANDARDS

TABLE 19.1 REFERENCED STANDARDS

ASCE 24 - 2014: FLOOD RESISTANT DESIGN AND CONSTRUCTION (SEE CHAPTER 2, 2.31)

TABLES FOR PART 200

<table>
<thead>
<tr>
<th>Table 3.4 MATERIALS FOR POTABLE WATER PIPING</th>
</tr>
</thead>
<tbody>
<tr>
<td>HOT WATER DISTRIBUTION (2) (5)</td>
</tr>
<tr>
<td>COLD WATER DISTRIBUTION (2) (5)</td>
</tr>
<tr>
<td>WATER SERVICE (1) (4)</td>
</tr>
<tr>
<td>2   Copper Water Tube, seamless, Type K or L</td>
</tr>
<tr>
<td>Copper Water Tube, seamless, Type M</td>
</tr>
<tr>
<td>6   CPVC Plastic HW/CW Tubing</td>
</tr>
<tr>
<td>18  PE-RT Plastic HW/CW Tubing</td>
</tr>
<tr>
<td>21  PEX Crosslinked Water Service Pipe</td>
</tr>
<tr>
<td>22  PEX Plastic Tubing</td>
</tr>
<tr>
<td>23  PEX Plastic HW/CW Tubing</td>
</tr>
<tr>
<td>28  PVC Plastic Pipe, schedule 40</td>
</tr>
</tbody>
</table>

NOTES FOR TABLE 3.4

(1) Piping for water service shall be water pressure rated for not less than 200 psi at 73 degree F.

<table>
<thead>
<tr>
<th>Table 3.4.2 PLASTIC WATER SERVICE PIPING</th>
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<tbody>
<tr>
<td>(water pressure rated for not less than 200 psi at 73 deg F)</td>
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<tr>
<td>MATERIAL</td>
</tr>
<tr>
<td>CPVC (ASTM F441)</td>
</tr>
<tr>
<td>Material Type</td>
</tr>
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<tr>
<td>CPVC-AL-CPVC (ASTM F2855)</td>
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<tr>
<td>PE (ASTM D2239)</td>
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<tr>
<td>PE (ASTM D2737)</td>
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<tr>
<td></td>
</tr>
<tr>
<td>PE (ASTM D3035)</td>
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<tr>
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<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>PE (ASTM F714) IPS/DIPS</td>
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<tr>
<td></td>
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<tr>
<td></td>
</tr>
<tr>
<td>PE (AWWA C901) SDR ID-Controlled IPS Pipe</td>
</tr>
<tr>
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</tr>
<tr>
<td></td>
</tr>
<tr>
<td>PE (AWWA C901) SDR OD-Controlled IPS Pipe</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>PE (AWWA C901) SDR</td>
</tr>
<tr>
<td>OD-Controlled CTS Pipe</td>
</tr>
<tr>
<td>----------------------------------------</td>
</tr>
<tr>
<td>PE 4710</td>
</tr>
<tr>
<td>PE-AL-PE (ASTM F1282)</td>
</tr>
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<td>PE-AL-PE (AWWA C903)</td>
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<td>PEX-AL-PEX (ASTM F1281)</td>
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<td>PEX-AL-PEX (ASTM F2262)</td>
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<td>PEX-AL-PEX (AWWA C903)</td>
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<td>PP (ASTM F2389) IPS</td>
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<tr>
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<th>PVC 1120</th>
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<th>up through 4&quot;</th>
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</thead>
<tbody>
<tr>
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<td>Schedule 80</td>
<td>threaded</td>
<td>up through 2-1/2&quot;</td>
<td></td>
</tr>
<tr>
<td>PVC 2120</td>
<td>Schedule 80</td>
<td>not threaded</td>
<td>up through 24&quot;</td>
<td></td>
</tr>
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<td></td>
<td>Schedule 120</td>
<td>threaded</td>
<td>up through 5&quot;</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Schedule 120</td>
<td>not threaded</td>
<td>up through 12&quot;</td>
<td></td>
</tr>
<tr>
<td>PVC 2110</td>
<td>Schedule 40</td>
<td>not threaded</td>
<td>up through 1&quot;</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Schedule 80</td>
<td>threaded</td>
<td>1/2&quot;</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Schedule 80</td>
<td>not threaded</td>
<td>up through 2-1/2&quot;</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Schedule 120</td>
<td>threaded</td>
<td>1/2&quot;</td>
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<td>up through 5&quot;</td>
<td></td>
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<tr>
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<td>not threaded</td>
<td>up through 1-1/2&quot;</td>
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</tr>
<tr>
<td></td>
<td>Schedule 80</td>
<td>threaded</td>
<td>up through 1&quot;</td>
<td></td>
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<td></td>
<td>Schedule 120</td>
<td>threaded</td>
<td>up through 1&quot;</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Schedule 120</td>
<td>not threaded</td>
<td>up through 12&quot;</td>
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<tr>
<td>PVC 2116</td>
<td>Schedule 40</td>
<td>not threaded</td>
<td>up through 3&quot;</td>
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### Schedule 80 Threaded Up Through 1-1/4"

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</table>

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<thead>
<tr>
<th>Schedule 80</th>
<th>not threaded</th>
<th>up through 8&quot;</th>
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</thead>
</table>

<table>
<thead>
<tr>
<th>Schedule 120</th>
<th>threaded</th>
<th>up through 1-1/2&quot;</th>
</tr>
</thead>
</table>

<table>
<thead>
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<th>Schedule 120</th>
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<th>up through 12&quot;</th>
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### PVC (ASTM D2241)

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<tr>
<th>PVC 1120</th>
<th>SDR 21 or lower</th>
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<th>all sizes</th>
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</table>

<table>
<thead>
<tr>
<th>PVC 1220</th>
<th>SDR 13.5 or lower</th>
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<th>all sizes</th>
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<th>PVC 2110</th>
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<th>none</th>
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</table>

<table>
<thead>
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<th>PVC 2112</th>
<th>SDR 17 or lower</th>
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<th>all sizes</th>
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</table>

### PVC (AWWA C900)

<table>
<thead>
<tr>
<th>PVC 1120</th>
<th>DR 14 (4)</th>
<th>not threaded</th>
<th>all sizes</th>
</tr>
</thead>
</table>

### NOTES FOR TABLE 3.4.2

1. The application of a pipe material for water service piping and its required water pressure rating of not less than 200 psi at 73 deg F shall be indicated in the manufacturer's data.

2. Refer also to the manufacturer's recommendations, instructions, and limitations.

3. Lower SDR, SIDR, IDR, and DR numbers for the same material composition have heavier wall thickness and higher pressure rating.

4. AWWA C900 pipe shall be rated by FM pressure class.

### Table 3.5 MATERIALS FOR SANITARY WASTE AND DRAIN PIPING

<table>
<thead>
<tr>
<th>ABOVE GROUND WITHIN BUILDINGS</th>
<th>UNDERGROUND WITHIN BUILDINGS</th>
<th>PIPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEWERS OUTSIDE OF BUILDINGS</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| 8 | Copper Drainage Tube, DWV (7) | X | X | A | ASTM B306 |
| 9 | Copper Water Tube, Type K or L | A | A | A | ASTM B88   |
|   | Copper Water Tube, Type M     | X | X | A | ASTM B88   |
Table 3.6 MATERIALS FOR VENT PIPING

<table>
<thead>
<tr>
<th></th>
<th>ABOVE GROUND</th>
<th>UNDERGROUND</th>
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</thead>
<tbody>
<tr>
<td>Copper Drainage Tube, DWV (7)</td>
<td>X A</td>
<td>ASTM B306</td>
</tr>
<tr>
<td>Copper Water Tube, Type K or L</td>
<td>A A</td>
<td>ASTM B88</td>
</tr>
<tr>
<td>Copper Water Tube, Type M</td>
<td>X A</td>
<td>ASTM B88</td>
</tr>
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</table>

Table 3.7 MATERIALS FOR STORM DRAIN PIPING

<table>
<thead>
<tr>
<th></th>
<th>ABOVE GROUND WITHIN BUILDINGS</th>
<th>UNDERGROUND WITHIN BUILDINGS</th>
<th>SEWERS OUTSIDE OF BUILDINGS</th>
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</thead>
<tbody>
<tr>
<td>Copper Drainage Tube, DWV (7)</td>
<td>X X A</td>
<td>ASTM B306</td>
<td></td>
</tr>
<tr>
<td>Copper Water Tube, Type K or L</td>
<td>A A A</td>
<td>ASTM B88</td>
<td></td>
</tr>
<tr>
<td>Copper Water Tube, Type M</td>
<td>X X A</td>
<td>ASTM B88</td>
<td></td>
</tr>
</tbody>
</table>

PART 300 NATIONAL FUEL GAS CODE

The parts set forth in this Part 300 include deletions, additions, replacements, and amendments to the National Fuel Gas Code, NFPA 54/ANSI Z223.1, 2015 edition, in accordance with Bill 41-15, the Plumbing and Gasfitting Code of Baltimore County.

PART 301 DELETIONS

The following item is deleted and not adopted by this code: A.7.13.3.

PART 302 ADDITIONS

The following items are added to the National Fuel Gas Code, NFPA 54/ANSI Z223.1, 2015 edition and adopted herein: 5.6.3.4.1, 5.6.3.4.2, 5.6.3.4.3, 5.6.3.4.4, 7.13.5, and A.7.13.5.

PART 303 REPLACEMENTS


PART 304 AMENDMENTS
THE FOLLOWING ITEMS IN THE NATIONAL FUEL GAS CODE, NFPA 54/ANSI Z223.1, 2015 EDITION ARE AMENDED BY CHANGES, ADDITIONS, DELETIONS, OR UPDATES: 2.3.3 ANSI LC 1.

PART 305 COPIES OF ADDITIONS, REPLACEMENTS, AND AMENDMENTS

COPIES OF THE ADDITIONS, REPLACEMENTS, AND AMENDMENTS TO ITEMS IN THE NATIONAL FUEL GAS CODE, NFPA 54/ANSI Z223.1, 2015 EDITION, ARE INCLUDED HEREIN.

CHAPTER 2 REFERENCED PUBLICATIONS

2.3.3 CSA AMERICAN PUBLICATIONS

ANSI LC 1/CSA 6.26, FUEL GAS PIPING SYSTEMS USING CORRUGATED STAINLESS STEEL TUBING (CSST), 2014.

CHAPTER 5 GAS PIPING SYSTEM DESIGN, MATERIALS, AND COMPONENTS

5.6.3.4 CORRUGATED STAINLESS STEEL TUBING (CSST)

5.6.3.4.1 CORRUGATED STAINLESS STEEL TUBING (CSST) SHALL BE LISTED IN ACCORDANCE WITH ANSI LC 1/CSA 6.26, FUEL GAS PIPING SYSTEMS USING CORRUGATED STAINLESS STEEL TUBING.

5.6.3.4.2 CSST WITH AN ARC RESISTANT JACKET SHALL BE CERTIFIED FOR COMPLIANCE WITH ANSI LC 1/CSA 6.26 AND ITS CLAUSE 5.16 - ARC RESISTANT JACKET OR COVERING. MANUFACTURING AND PRODUCTION TESTS SHALL INCLUDE RESISTANCE TO EXTREME TEMPERATURE CYCLES, RESISTANCE TO CORROSION, ROBUSTNESS AGAINST ARCING, AND RESISTANCE TO INSTALLATION DAMAGE.

5.6.3.4.3 ARC RESISTANT CSST SHALL BE CERTIFIED FOR INSTALLATION WITHOUT THE ADDITIONAL ELECTRICAL BOND REQUIRED BY 7.13.2 FOR CSST THAT IS NOT ARC RESISTANT.

5.6.3.4.4 CSST SHALL BE INSTALLED IN ACCORDANCE WITH THIS CODE AND THE MANUFACTURER’S INSTRUCTIONS.

CHAPTER 7 GAS PIPING INSTALLATION

7.13 ELECTRICAL BONDING AND GROUNDING

7.13.1 PIPE AND TUBING OTHER THAN CSST
EACH ABOVEGROUND PORTION OF A GAS PIPING SYSTEM, OTHER THAN CSST, THAT IS LIKELY TO BECOME ENERGIZED SHALL BE ELECTRICALLY CONTINUOUS AND BONDED TO AN EFFECTIVE GROUND-FAULT CURRENT PATH. GAS PIPING, OTHER THAN CSST, SHALL BE CONSIDERED TO BE BONDED WHEN IT IS CONNECTED TO APPLIANCES THAT ARE CONNECTED TO THE APPLIANCE GROUNDING CONDUCTOR OF THE CIRCUIT SUPPLYING THAT APPLIANCE.

7.13.2 CSST OTHER THAN ARC RESISTANT

CSST GAS PIPING SYSTEMS THAT ARE NOT ARC RESISTANT, AND GAS PIPING SYSTEMS CONTAINING ONE OR MORE SEGMENTS OF CSST THAT IS NOT ARC RESISTANT, SHALL BE BONDED TO THE ELECTRICAL SERVICE GROUNDING ELECTRODE SYSTEM OR, WHERE PROVIDED, BONDED TO A LIGHTENING PROTECTION GROUNDING ELECTRODE SYSTEM.

7.13.2.1 THE BONDING JUMPER SHALL CONNECT TO A METALLIC PIPE, PIPE FITTING, OR CSST FITTING.

7.13.2.2 THE BONDING JUMPER SHALL NOT BE SMALLER THAN 6 AWG COPPER WIRE OR EQUIVALENT.

7.13.2.3 THE LENGTH OF THE JUMPER BETWEEN THE CONNECTION TO THE GAS PIPING SYSTEM AND THE GROUNDING ELECTRODE SYSTEM SHALL NOT EXCEED 75 FT (22 M). ANY ADDITIONAL ELECTRODES SHALL BE BONDED TO THE ELECTRICAL SERVICE GROUNDING ELECTRODE SYSTEM OR, WHERE PROVIDED, LIGHTENING PROTECTION GROUNDING ELECTRODE SYSTEM.

7.13.2.4 BONDING CONNECTIONS SHALL BE IN ACCORDANCE WITH NFPA 70, NATIONAL ELECTRICAL CODE.

7.13.2.5 DEVICES USED FOR THE BONDING CONNECTION SHALL BE LISTED FOR THE APPLICATION IN ACCORDANCE WITH ANSI/UL 467, GROUNDING AND BONDING EQUIPMENT.

7.13.3 ARC RESISTANT CSST

ALL CSST IN AN ARC RESISTANT GAS PIPING SYSTEM SHALL BE ARC RESISTANT. EACH PORTION OF AN ARC RESISTANT CSST GAS PIPING SYSTEM SHALL BE ELECTRICALLY CONTINUOUS AND BONDED TO AN EFFECTIVE
GROUND-FAULT CURRENT PATH. ARC RESISTANT CSST GAS PIPING SHALL BE CONSIDERED TO BE BONDED WHEN IT IS CONNECTED TO APPLIANCES THAT ARE CONNECTED TO THE APPLIANCE GROUNDING CONDUCTOR OF THE CIRCUIT SUPPLYING THAT APPLIANCE.

7.13.4 PROHIBITED USE
GAS PIPING SHALL NOT BE USED AS A GROUNDING CONDUCTOR OR ELECTRODE.

7.13.5 LIGHTNING PROTECTION SYSTEMS
WHERE A LIGHTNING PROTECTION SYSTEM IS INSTALLED, THE BONDING OF THE GAS PIPING SHALL BE IN ACCORDANCE WITH NFPA 780, STANDARD FOR THE INSTALLATION OF LIGHTNING PROTECTION SYSTEMS.

ANNEX A EXPLANATORY MATERIAL

A.7.13.4 THIS REQUIREMENT DOES NOT PRECLUDE THE BONDING OF METALLIC PIPING TO A GROUNDING SYSTEM.

A.7.13.5 NFPA 780, STANDARD FOR THE INSTALLATION OF LIGHTNING PROTECTION SYSTEMS, SECTION 4.14, REQUIRES THAT ALL GROUNDING MEDIA, INCLUDING UNDERGROUND METALLIC PIPING SYSTEMS, BE INTERCONNECTED TO PROVIDE A COMMON GROUND POTENTIAL. THESE UNDERGROUND PIPING SYSTEMS SHALL NOT BE PERMITTED TO BE SUBSTITUTED FOR GROUNDING ELECTRODES BUT MUST BE BONDED TO THE LIGHTNING PROTECTION GROUNDING SYSTEM. WHERE GALVANIC CORROSION IS OF CONCERN, THE BOND MAY BE VIA A SPARK GAP OR GAS DISCHARGE TUBE.

PART 400 LIQUEFIED PETROLEUM GAS CODE
THIS PART SETS FORTH DELETIONS, ADDITIONS AND REPLACEMENTS FROM AND TO THE LIQUEFIED PETROLEUM GAS CODE, NFPA 58, 2014 EDITION, IN ACCORDANCE WITH BILL 41-15, THE PLUMBING & GASFITTING CODE OF BALTIMORE COUNTY.

PART 401 DELETIONS
THE FOLLOWING SECTIONS AND CHAPTERS ARE DELETED FROM THE LIQUEFIED PETROLEUM GAS CODE, NFPA 58, 2014 EDITION: 5.20; 5.21; 5.22;
6.2.2; 6.19; 6.20; 6.21; 6.22; 6.23; 6.24; 6.25; 6.26; 6.27; 6.28; CHAPTER 7, CHAPTER 8, CHAPTER 9, CHAPTER 10, CHAPTER 11, CHAPTER 12, CHAPTER 13, AND CHAPTER 14.

**PART 402 ADDITIONS**

The following section is added to the liquefied petroleum gas code, NFPA 58, 2014 edition and adopted herein: 4.4.5

**PART 403 REPLACEMENTS**

The following sections replace the existing items in the liquefied petroleum gas code, NFPA 58, 2014 edition: 1.3.1, and 1.3.2.

**PART 404 COPIES OF ADDITIONS AND REPLACEMENTS**

Copies of the additions and replacement to the items in the liquefied petroleum gas code, NFPA 58, 2014 edition are included herein.

**CHAPTER 1 ADMINISTRATION**

1.3.1 APPLICATION OF CODE

The liquefied petroleum gas code, NFPA 58, 2014 edition, is limited to the design, installation, and operation of containers, piping, and associated equipment for delivering LP-gas to a building for use as its fuel gas. This code does not apply to portions of LP-gas systems covered by NFPA 54/ANSI Z223.1, National Fuel Gas Code.

1.3.2 NONAPPLICATION OF CODE

The liquefied petroleum gas code, NFPA 58, 2014 edition, shall not apply to the following: existing non-applications (1) through (11), (12) highway transportation of LP-gas, (13) the design, construction, installation, and operation of marine terminals whose primary purpose is the receipt of LP-gas for delivery to transporters, distributors, or users, and (14) the design, construction, installation, and operation of pipeline terminals that receive LP-gas from pipelines under the jurisdiction of the U.S. Department of Transportation (DOT).

**CHAPTER 4 GENERAL REQUIREMENTS**
4.4.5 PERSONS INSTALLING LP-GAS SERVICE WITHIN THE SCOPE OF THIS CODE SHALL BE QUALIFIED FOR THE LAYOUT, INSTALLATION, AND OPERATION OF THE CONTAINERS, PIPING, AND ASSOCIATED EQUIPMENT FOR DELIVERING LP-GAS TO A BUILDING OR STRUCTURE FOR USE AS ITS FUEL GAS BY BEING CERTIFIED FOR CERTIFICATION AREAS 1.0, 4.1, AND 4.2 OF THE CERTIFIED EMPLOYEE TRAINING PROGRAM (CETP) OF THE NATIONAL PROPANE GAS ASSOCIATION.

SECTION 5. AND BE IT FURTHER ENACTED that this Act, having been passed by the affirmative vote of five members of the County Council, shall take effect July 1, 2015.