

UAJA SERVICE CONNECTION POLICY

1.01 STATEMENT OF POLICY

- A. It is the policy of the University Area Joint Authority (UAJA, Authority), in Centre County, Pennsylvania, which owns, operates, administers and maintains a wastewater collection system for the conveyance of wastewater to the treatment facility owned by the University Area Joint Authority to accept any request for service to a new development within the service area of the Authority as defined by the then current Sewage Facilities Act (Act 537) of the municipality in which the new land development proposal is offered so long as the request for service meets the intent of this policy and these regulations. Consideration to approve any proposed sanitary sewer extension to the existing system shall be given so long as capacity exists in the collection system for conveyance, capacity exists at the University Area Joint Authority facility for treatment, no prohibited wastes are discharged and all other regulations of the Authority are met. In the event subject sewers are accepted by the Authority, the responsibility for operation and maintenance of those sewers will be assumed by the Authority unless special circumstances and conditions must be met as delineated in the Sewer Extension Agreement between the Developer of the property and the Authority.

1.02 REGULATIONS OF THE DEPARTMENT OF ENVIRONMENTAL PROTECTION

- A. All regulations and requirements of the Pennsylvania Department of Environmental Protection (DEP) as those regulations and requirements pertain to the construction of sanitary sewers are incorporated herein as if those rules and regulations were fully written in this document.
- B. Any DEP rule, regulation and/or requirement which is more stringent than the rules and regulations contained in this document have precedence and shall supersede the regulations contained herein.
- C. The construction of sanitary sewers shall not be permitted until the proper permit(s) has been issued either by the Department of Environmental Protection to the Authority or the Authority itself has issued a permit to the Developer authorizing construction of sanitary sewers.

1.03 OWNERSHIP AND EASEMENTS

- A. The Authority shall assume ownership and will authorize use of, and will maintain and operate sanitary sewers, which have been constructed by a Developer to serve the land improved by the Developer in question under the following terms and conditions:
1. The Developer has requested and the Authority has approved service to the Developer's project.
 2. The Developer has provided evidence that Land Planning Modules or an Exemption, as may be required by the Department of Environmental Protection and/or the Municipality in which the development occurs, have been approved.
 3. The Developer has provided to the Authority the appropriate Sewer Extension Agreement, which will differ depending on whether a Water Quality Management Permit must be obtained from the DEP. Examples of the Sewer Extension Agreements, as required, are attached hereto as Appendix A and B.

4. The Developer of the land in question provides to the Authority, temporary and permanent easements as may be required to construct and maintain sewers in accordance with the rules and regulations then in effect at the time said easements are obtained. Easements shall be obtained and shall be recorded in the name of the Authority.
5. All permanent easements obtained and recorded for the Authority shall have a minimum width of 20 feet, centered upon the sanitary sewer. In addition, it is recommended that no structure be constructed within 20 feet from the centerline of the sanitary sewer for purposes of future repair requirements.

1.04 DEFINITION OF TERMS

- A. "Authority" - The University Area Joint Authority, a body politic and corporate created to construct, operate, and maintain a public sanitary sewer system to serve College, Harris, Patton, and Ferguson Townships, whose responsibility it is to inspect and approve all sanitary sewers that are to discharge into and become a part of the existing public sanitary sewer system. The Authority reserves the right to employ an agent to perform its inspection duties.
- B. "Consultant" - The individual, firm or corporation presently employed as Consulting Engineer by the Authority responsible for the review and advisement to the Authority as to the satisfaction of the sewerage system design as presented by the Developer.
- C. "Contractor" - The individual, firm, partnership, co-partnership or corporation designated by the Developer for the construction of sanitary sewers and associated facilities.
- D. "Developer" - The party or parties seeking approval for construction of sanitary sewers and bearing the financial burden of construction.
- E. "Easement" - Right of access to private property to allow construction or maintenance of public utility. The permanent easement prohibits the building of any permanent structures within the right-of-way except fences.
- F. "Engineer" - The individual, firm, or corporation designated by the Developer as responsible for the preparation of drawings or plans necessary for construction of sanitary sewers and appurtenances and the "As-Built" drawings.
- G. "Gravity Basement Service"-
 1. For new home construction on lots where the profile of the building setback line is equal to or higher than the profile over the sewer main, the sewer main shall be constructed at an elevation such that the invert of the lateral servicing the lot shall be 9' below the finish grade shown on the profile over the sewer main.
 2. For new home construction on lots where the profile of the building setback line is lower than the profile over the sewer main, a first floor elevation is to be established and shown on the plan. The sewer main shall be constructed at an elevation such that the invert of the lateral servicing the lot shall be 9' below the first floor elevation.
 3. Every service lateral shall be constructed at a grade sufficient to achieve a velocity of two (2) feet per second [2% or 1/4" per foot for six (6") inch pipe] with

an additional 8" in elevation (drop) provided for connecting the service lateral to the sewer main.

- H. "System Laterals" - the sewer which connects the house sewer to the main line sewer. A lateral connection (to be 6" minimum) normally begins at the right-of-way or property line and connects to the street sewer by means of a "wye" fitting.
- I. "Building Lateral" - That portion of the sewer conveying the sewage from the structure to the system lateral and being within private property. It is not part of the system dedicated to the Authority. The size and material of the house connection are subject to the plumbing ordinance of the Township; however, the Building sewer and construction of same are subject to inspection and testing by the Authority. If the Building sewer is installed independently of the other sewers, it is subject to testing and connection procedures as being presently used by the Authority.
- J. "Planning Commission" - The Local governing body responsible for the coordinated review of comprehensive planning.
- K. "Planning Module" - Components 3 and 4 of the Pennsylvania Department of Environmental Protection Sewage Facilities Planning Modules.
- L. "Pressure Sewer System" - A sanitary sewer system that utilizes individual grinder sewage pumps for each customer to convey sewage under pressure to the Force Main Sewer. Typically, a Pressure Sewer System includes a gravity House Connection, a grinder pump station, a pressure lateral, and a force main.
- M. "Gravity Main Line Sewer" - The sewer or sewers in the public or private right-of-way which services, or is capable of serving, more than one "Building lateral".
- N. "Township" - The municipal governing body of College Township, Ferguson Township, Harris Township, or Patton Township.
- O. "Work" - The installation of the sewer lines and appurtenances performed by the Contractor or Developer; Project.

1.05 ABBREVIATIONS

UAJA - University Area Joint Authority
DEP - Pennsylvania Department of Environmental Protection
PennDOT - Pennsylvania Department of Transportation
OSHA - Occupational Safety and Health Administration

1.06 GENERAL SEQUENCE OF AUTHORITY APPROVAL

- A. Submission Time - All project design plans shall be submitted to the University Area Joint Authority and successfully pass through the review process outlined in Section 2.0 PLAN SUBMITTALS in order to be eligible for placement on the Board's regularly scheduled meeting agenda.
- B. Approval for the construction of an extension to the system owned by the University Area Joint Authority shall follow, in general, the stages outlined below:

1. Planning Approval/Service Approval
 - a. The Developer shall submit one copy of a Land Development Plan or Sketch Plan to the Authority accompanied by a written request that the Authority either authorize execution of Planning Documents or certify documentation for a Planning Exemption, for the proposed development. The Sketch or Land Development Plan must at least show the proposed lot layout within the subdivision. Draft copies of Sewage Facilities Planning Modules (in duplicate) or a Planning Exemption Card as may be required by the municipality and/or the Department of Environmental Protection shall accompany the Land Development Plan or Sketch. As a minimum, the Land Development Plan and/or Sketch Plan must contain the following information:
 - i. The name of the proposed subdivision or land development.
 - ii. North Arrow.
 - iii. Graphics Scale.
 - iv. Day, month, year plan prepared and/or revised.
 - v. Name and address of Developer.
 - vi. Name and address of individual or firm preparing the plan.
 - vii. Key map showing location of proposed subdivision and land development.
 - viii. Total acreage of property.
 - ix. Location and widths of rights-of-way and cartways.
 - x. The layout of each lot.
 - xi. Utility, drainage and other easements.
 - xii. Point of connection to existing sewer system.
 - xiii. Preliminary layout of proposed sewage facilities
 - b. Based upon the information presented by the Developer in the Request for Planning/Service, the Authority shall make a determination whether an application for a "Special Permit for the Discharge of Non-Domestic Wastewater" must be submitted to the Authority with respect to service to any one individual, or all the lots contained in the Subdivision Plan or Land Development Plan. It is the intent herein to ascertain at this time whether wastewater, which is proposed for discharge to the sanitary sewer, will require pretreatment to be provided by the Developer of the subdivision and/or lot within that subdivision before discharge to the sewer is permitted.
 - c. The Authority shall take into consideration the Developer's request for planning approval, and, if appropriate, shall authorize execution of the Sewage Facilities Planning Modules. If the Authority deems the submission for planning approval to be incomplete, additional action necessary by the Developer to gain planning approval shall be indicated at the meeting when the request for planning approval is considered.
 - d. The Authority's approval of the Request for Planning/Service shall not constitute approval of the final design of the wastewater collection system required for service to the proposed subdivision or Land Development Plan.
2. Final Design Approval

- a. The Developer and/or their Engineer shall present to the Authority a design of sanitary sewers required to provide service to the subdivision or project which is to be developed. The Developer is referred to Section 2.0 – PLAN SUBMITTALS for requirements of the final design when submitting same to the Authority for review and approval.
 - b. The Developer shall present to the Authority for its consideration a fully executed (in duplicate) Sewer Extension Agreement as contained in Appendices B and/or C attached hereto.
 - c. Based upon the content of the submittal for final design approval, the Authority will either approve the submission or make recommendations which will indicate what action must be taken by the Developer prior to the Developer receiving approval of final design of the extension to the wastewater collection system. If additional information is required, the Developer shall be so notified.
 - d. If a Water Quality Management Permit is not required to be obtained from the DEP, the Developer shall submit, in duplicate, an application for an Authority issued Water Quality Management Permit. The application shall be accompanied by the applicable fee in effect at the time application is made. Subsequent to final design approval of the wastewater collection system required to serve the Developer's subdivision and/or land development project, the Authority, if appropriate, will issue a Water Quality Management Permit authorizing the construction of sanitary sewers. In the event a Water Quality Management Permit must be obtained from the Department of Environmental Protection, the Developer shall submit along with the request for final design approval, the appropriate application mandated by the Department of Environmental Protection in duplicate accompanied by the requisite fee as mandated by the Department. Following approval of the final design, the Authority shall submit the application for a Water Quality Management Permit to the Department of Environmental Protection.
 - e. Construction of sanitary sewers may not commence until the requisite Water Quality Management Permit has been issued either by the Authority or by the Commonwealth of Pennsylvania, Department of Environmental Protection.
3. Procedures for Obtaining Approval to Construct and Use Sewers
- a. The Developer and/or their Engineer shall present to the Authority for review and approval As-Built drawings, prepared and certified by the Engineer, of the extension constructed to the collection system owned by the University Area Joint Authority. At the time the As-Built drawings are presented for review and approval, the Developer shall convey to the Authority the sanitary sewer extension as detailed in the Sewer Extension Agreement. The requirements for As-Built drawings are contained in Section 2.04 herein. No extension constructed by the Developer will be accepted and approved for use until such time as As-Built drawings have been approved, the Authority has televised the pipe construction and has found it to be free of defects, all fees have been paid to the Authority and/or the Authority's representative, and the Deed of Dedication has been offered to the Authority.

- b. The Developer shall pay all fees, premiums, royalties, etc. necessary for the construction as well as for the processing of applications for the proposed project. Where required, the Developer shall have the Engineer prepare the application for a Water Quality Management Permit to be issued by the Authority or the Department of Environmental Protection, whichever is applicable. In the event an application is prepared for submission to the Department of Environmental Protection, it shall be prepared in the name of the Authority together with all required modules. These documents shall be delivered to the Authority in triplicate for review by the Authority and the Authority's Consulting Engineer. The Consultant, after review and approval of the permit application, modules and other documents, together with the necessary plans shall provide their approval to the Authority in writing before documentation is submitted to the Department of Environmental Protection or the Authority issues a Water Quality Management Permit in its own behalf. The Developer shall pay all premiums for bonds even if the Authority must obtain a bond prior to the commencement of construction.

The Developer shall provide the necessary blasting bond if such is required by the Commonwealth of Pennsylvania Department of Transportation.

The Developer is also responsible for the following permits and approvals and any associated fees.

- 1) PennDOT Highway Occupancy Permit and Maintenance Bond
- 2) Township/Borough Road or Street Occupancy Permit
- 3) Stream Encroachment Permit
- 4) NPDES Permit for Stormwater Discharges Associated with Construction Activities
- 5) Soil Erosion and Sedimentation Control Approval
- 6) Earth Disturbance Permit
- 7) Any other Permits required by any Agency

If required by the Authority, the Developer shall obtain the Permits in the name of the Authority.

The Developer shall pay the Authority for all costs of inspection of the construction of extensions to the sanitary sewer system. A pre-construction conference shall be held at which time the predetermined, estimated fee for inspection shall be paid. No construction may be initiated until this fee has been paid.

1.07 BOND AND MAINTENANCE

The Developer shall post a bond in accordance with the requirements of the Authority which bond shall cover the cost of construction of the wastewater collection facilities shown on the plans as approved by the Authority and maintenance of the wastewater collection facilities for a period of

eighteen months. The bond shall be posted concurrently with the bonds for other public improvements related to the project and shall be in an amount approved by the Township and/or the Authority.

If blasting is to be performed, a blasting bond, in accordance with PennDOT requirements shall be posted by the Authority, but the cost of said bond shall be borne by the Developer or their Contractor.

The Developer shall maintain all sewage and related paving items associated with the project, and shall correct all defects in workmanship and materials, including settlement of backfill, for a period of eighteen (18) months from the date of acceptance of the wastewater collection facilities by the Authority.

When repairs or replacements are required, the Authority will notify the Developer in writing advising of the extent of the work. Within seven (7) days thereafter, the Developer shall begin to perform the necessary work and carry it through expeditiously until it is completed. If the Developer delays beyond the seven (7) days from the date of said notice, the Authority will institute action under the bond to have the work done by outside forces and charge same against the Surety on the bond.

1.08 REFERENCE TO STANDARDS

Whenever reference to specifications or to standards is made relative to the furnishing of materials or testing thereof to conform to the standards of any technical society, organization, or body, it shall be construed to mean the latest standards, code, specifications, or tentative specification adopted and published at the date of issuance of the Water Quality Management Permit by the Authority, even though reference has been made to an earlier standard.

Reference to a technical society, organization, or body may be made in the Specifications by abbreviation, in accordance with the following list:

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| ACI | American Concrete Institute |
| AGA | American Gas Association |
| AIEE | American Institute of Electrical Engineers |
| AISC | American Institute of Steel Construction |
| ASA | American Standards Association |
| ASCE | American Society of Civil Engineers |
| ASME | American Society of Mechanical Engineers |
| ASTM | American Society for Testing and Materials |
| AWSC | American Welding Society Code |
| AWWA | American Water Works Association |
| CIPRA | Cast Iron Pipe Research Association |
| Fed Spec. | Federal Specification |
| AASHTO | American Association of State Highway and Transportation Officials |
| NEMA | National Electrical Manufacturers Association |
| AWPA | American Wood Preservers Association |
| OSHA | Occupational Safety and Health Administration |

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| SCS | Soil Conservation Service |
| PA DEP | Pennsylvania Department of Environmental Protection |
| US EPA | US Environmental Protection Agency |

When no reference is made to a code, standards or specification, the Standard Specification of the ASTM shall govern.

1.09 INDEMNIFICATION AND INSURANCE

- A. Indemnification: The work performed by the Developer, Contractor and Developer's Engineer shall be at the risk of the Developer, Developer's Contractor and Developer's Engineer exclusively. To the fullest extent permitted by law, Developer, Developer's Contractor and Developer's Engineer shall indemnify, defend (at Developer, Developer's Contractor and Developer's Engineer sole expense) and hold harmless the Authority and Authority's Engineer's, joint ventures, representatives, members, designees, officers, directors, employees, agents, successors and assigns ("Indemnified Parties") from and against any and all claims for bodily injury, death or damage to property, demands, damages, actions, causes of actions, suits, losses, judgments, obligations and any liabilities, costs and expenses (including but not limited to investigative and repair costs, attorneys' fees and costs) ("Claims") which arise or are in any way connected with the Work performed, materials furnished, or Services provided under this Agreement by the Developer, Developer's Contractor and Developer's Engineer or its agents. These indemnity and defense obligations shall apply to any acts or omissions, negligent or willful misconduct of the Developer, Developer's Contractor and Developer's Engineer, its employees or agents, whether active or passive. Said indemnity and defense obligations shall further apply, whether or not said claims arise out of the concurrent act, omission or negligence of the Indemnified Parties, whether active or passive. The Developer, Developer's Contractor and Developer's Engineer shall not be obligated to indemnify or defend Authority and Authority's Engineer for claims found to be due to the sole negligence or willful misconduct of Indemnified Parties.

The Developer, Developer's Contractor and Developer's Engineer indemnification and defense obligations hereunder shall extend to Claims occurring after this Agreement is terminated as well as while it is in force, and shall continue until it is finally adjudicated and any and all actions against the Indemnified Parties for such matters which are indemnified hereunder are fully and finally barred by applicable laws.

- B. Insurance: Upon execution of this Agreement, and prior to the Developer, Developer's Contractor and Developer's Engineer commencing any work or services, the Developer, Developer's Contractor and Developer's Engineer shall carry commercial general liability insurance on ISO form CG 00 01 10 01 (or a substitute form providing equivalent coverage) and the Developer, Developer's Contractor and Developer's Engineer shall provide the Authority and Authority's Engineer with a Certificate of Insurance and Additional Insured Endorsement on ISO form CG 20 10 11 85 (or a substitute form providing equivalent coverage) or the combination of ISO forms CG 20 10 10 01 and CG 20 37 10 01 (or a substitute form providing equivalent coverage) naming the Authority and Authority's Engineer as Additional Insureds thereunder.

Additional Insured coverage shall apply as primary insurance with respect to any other insurance afforded to Authority and Authority's Engineer. The coverage available to the Authority and Authority's Engineer, as Additional Insureds, shall not be less than \$1 million Each Occurrence, \$2 million General Aggregate, \$2 million Products/Completed Operations Aggregate, and \$1 million Personal and Advertising Injury limits. Such insurance shall cover liability arising from premises, operations, independent contractors,

products-completed operations, personal and advertising injury, and liability assumed under an insured contract (including the tort liability of another assumed in a business contract). There shall be no endorsement or modification of the Commercial General Liability form arising from pollution, explosion, collapse, underground property damage or work performed by the Developer, Developer's Contractor and Developer's Engineer. All Contractors insurance carriers must maintain an A.M. Best rating of A- or better. Coverage shall be afforded to the Additional Insureds whether or not a claim is in litigation.

The insurance coverage required in the previous paragraph shall be of sufficient type, scope and duration to ensure coverage for the Authority and Authority's Engineer for liability related to any manifestation date within the applicable statutes of limitation and/or repose which pertain to any work performed by or on behalf of the Authority and Authority's Engineer.

Each Certificate of Insurance shall provide that the insurer must give the Authority and Authority's Engineer at least 30 days' prior written notice of cancellation and termination of the Developer, Developer's Contractor and Developer's Engineer coverage thereunder. Not less than two weeks prior to the expiration, cancellation or termination of any such policy, the Developer, Developer's Contractor and Developer's Engineer shall supply the Authority and Authority's Engineer with a new and replacement Certificate of Insurance indicating the Additional Insured endorsement as proof of renewal of said original policy. Said new and replacement endorsements shall be similarly endorsed in favor of the Authority and Authority's Engineer as set forth above.

Additionally and prior to commencement of the Work, the Developer, Developer's Contractor and Developer's Engineer shall provide the Authority and Authority's Engineer with a Certificate of Insurance showing liability insurance coverage for the Developer, Developer's Contractor and Developer's Engineer and any employees for Workers Compensation, Employers Liability, Automobile Liability and Umbrella Liability. In the event any of these policies are terminated, Certificates of Insurance showing replacement coverage shall be provided to the Authority and Authority's Engineer. Coverage limits shall be no less than the following:

Workers Compensation and Employers Liability Insurance: As required by law and affording 30 days written notice to the Developer, Developer's Contractor and Developer's Engineer prior to cancellation or non-renewal. Limits are to be a minimum of \$100,000 each Accident, \$500,000 Disease policy limit, and \$100,000 disease each Employee.

Business Automobile Liability Insurance: Written in the amount of not less than \$1 million Each Accident.

Umbrella Liability Insurance: The coverage shall not be less than \$2 million Each Occurrence, \$2 million Aggregate. Such insurance shall provide coverage over and above the stated General Liability, Employers Liability and Automobile Liability limits.

1.10 WORKMANSHIP AND MATERIALS

It is the intent of the University Area Joint Authority to require all sewer construction, which is carried out under the auspices of this policy by a Developer as defined herein, in College, Harris, Patton and/or Ferguson Townships, to meet the specifications of the Authority, and to require the Developer to adhere strictly to the requirements enumerated herein and in the specifications. The intent of the Specifications is to define the quality and character of the workmanship and materials necessary to meet the requirements of the University Area Joint Authority, the

Pennsylvania Department of Environmental Protection and the Pennsylvania Department of Transportation for sewer construction in the rights-of-way and paved areas of state and township highways.

1.11 NOTIFICATION OF UTILITY COMPANIES

The Developer and/or representatives are hereby advised of their obligation under the Underground Utility Line Protection Law, to contact all utility companies who maintain underground utilities in the project area. The Authority will not assume any responsibility for the failure of the Developer and /or representatives to fulfill their requirements and obligations under the Underground Utility Line Protection Law, as amended.

1.12 PRESSURE SEWER SYSTEMS

The construction of a pressure sewer system will be considered when the following is met:

A. Criteria

1. The finish grade of the proposed development requires conventional gravity sewer mains to be greater than 15-feet deep as measured from the top of the sewer pipe to finish grade.
2. Site-specific conditions include wetlands, streams, or other natural water obstructions.
3. The location of the pressure sewer system is such that subsequent development in the vicinity will not be forced to connect to the pressure sewer system.

B. Additional Requirements

1. Each residence or building structure must have an individual grinder pump station. Sharing of grinder pump stations is not allowed. All grinder pump stations shall be located exterior to and at least 10-feet from any structures on the property.
2. Prior to the issuance of individual connection permits within a development, the Developer, or property owner shall deposit funds with the Authority equal to the replacement cost of the grinder pump(s) and control panel(s) subject to connection. The funds will be placed in escrow by the Authority, and used to bring the expectant life of the pressure sewer system to 20-years. If the Developer deposits the funds, these costs may be passed on to the property owner, to be paid at the time of connection. The amount will coincide with current cost published in the fee schedule of the Rate Resolution at the time of connection

C. Responsibilities and Maintenance

1. The individual property owner will be responsible for the maintenance and operation of the following components of the pressure sewer system:
 - a. Power and Electrical
 - b. House lateral to the grinder pump station
 - c. Wet Well

- d. Pressure lateral including all fittings
 - e. Controls
2. The Authority will be responsible for the maintenance of the following components of the pressure sewer system. The deeds of each property served by the pressure sewer system shall contain a covenant allowing the Authority access to the grinder pump station for inspection, maintenance, and observation.
- a. Grinder Pump “Core”
 - b. Common Main
 - c. Control Panel

1.13 LATERALS (GRAVITY)

A. Single Family Residential

- 1. From the end of the six (6) inch system lateral, install a test-tee and reducer which transitions to four (4) inch Schedule 40. The test-tee shall be no further than two (2) feet inside the property line. Install an additional clean-out every fifty (50) feet and at any directional change (horizontal or vertical). Any separate connection of a detached structure to the primary use on the lot shall be considered a “Private to Private” connection and shall follow the same requirements as the primary building connection however it shall require a separate permit as described in the Rate Resolution.
- 2. On properties where the sidewalk is to be located on the property rather than in the public Right-of-Way, the test-tee and reducer should be located in the Right-of-Way and the pipe shall be reduced and extended behind the sidewalk, within the utility easement.

B. Duplexes

- 1. Duplex buildings may always be served with an individual four (4) inch lateral to each unit adhering to specifications of the Authority. Any separate connection of a detached structure to the primary use on the lot shall be considered a “Private to Private” connection and shall follow the same requirements as the primary building connection however it shall require a separate permit as described in the Rate Resolution.
- 2. A duplex building where each unit will be rented may be served by extending the six (6) inch Schedule 40 lateral at the mainline into the property where it can be manifolded with a wye and reduced to four (4) inch Schedule 40 to serve each unit.
- 3. At duplex buildings where the units are individually owned and are not part of a condominium, each unit must be served by an individual four (4) inch lateral that adheres to specifications of the Authority.
- 4. Duplex building that are condominiums may be provided service with one lateral subject to the following conditions:
 - a. A condominium association must be established and a maintenance agreement with UAJA must be enacted.

- b. There must be no ability to subdivide the property, or any of the buildings within the condominium association, under current zoning regulations.
- c. The laterals serving multi-unit buildings must be six (6) inches in diameter.
- d. The minimum grade of the lateral must be one-quarter inch per foot (2.00%).
- e. The lateral must extend completely through the building with a clean-out at the end.
- f. Additionally, a clean-out must be provided for each individual unit in an accessible location that is not within the living area of the unit.
- g. Grade certification must be provided to UAJA staff for each lateral within the association.

C. Three or More Units per Building (Multiple Unit)

- 1. Multiple unit buildings (greater than duplex), where each unit will be rented, may be served by one six (6) inch Schedule 40 lateral for the building. Any separate connection of a detached structure to the primary use on the lot shall be considered a "Private to Private" connection and shall follow the same requirements as the primary building connection however it shall require a separate permit as described in the Rate Resolution.
- 2. Multiple unit buildings (greater than duplex) that are condominiums may be provided service with one lateral subject to the following conditions:
 - a. A condominium association must be established and a maintenance agreement with UAJA must be enacted.
 - b. There must be no ability to subdivide the property, or any of the buildings within the condominium association, under current zoning regulations.
 - c. The laterals serving multi-unit buildings must be six (6) inches in diameter.
 - d. The minimum grade of the lateral must be one-quarter inch per foot (2.00%).
 - e. The lateral must extend completely through the building with a clean-out at the end.
 - f. Additionally, a clean-out must be provided for each individual unit in an accessible location that is not within the living area of the unit.
 - g. Grade certification must be provided to UAJA staff for each lateral within the association.
- 3. Multiple unit buildings (greater than duplex) that are condominiums and are constructed as two (2) stories or higher, may follow "Common Element" methodology as allowed by the [PA Uniform Condominium Act]. This provides for the use of common vertical stacks which converge into common 6" diameter lateral(s) prior to connection to the mainline sewer, where the lateral is not

located under the building slab. If the lateral is located under the building slab, conditions a. through e. and g. of point 2 above will be required.

D. Commercial

1. Lateral design must be reviewed and approved by Staff.

E. Industrial

1. Lateral design must be reviewed and approved by Staff.

2.0 PLAN SUBMITTALS

2.01 SUBMISSION TO AUTHORITY OF DESIGN AND AS-BUILT DRAWINGS FOR REVIEW AND APPROVAL

- A. Design Drawings: Submission of Design Drawings shall be initiated by either Planning Module or Planning Exemption approval of the Developer's Land Development/Sketch Plan as documented by a statement informing the Developer to proceed with preparation of Design Drawings for the project. Prior to the submission, the Developer shall contact the Consultant to schedule the review dates for the Design Drawings. Scheduling must be completed to ensure that a comment letter is received from the Authority/Consultant in three (3) business days from the date of submission. The Developer shall then submit one (1) paper copy and one (1) Portable Document Format (PDF) file to the UAJA and one (1) PDF file to the Consultant. The UAJA will collaborate with the Consultant for the review. Comments will be electronically conveyed to the Developer and/or Engineer. If the review process requires numerous iterations, each submission must be scheduled with the Consultant to ensure the aforementioned response time. It is the responsibility of the Developer and Engineer to comply with the review schedule in order to secure a timely approval of the project Design Drawings.

At the time when the Design Drawings meet all the requirements established by the Authority, they will be presented to the UAJA Board at a regularly scheduled meeting for approval.

When approval of the drawings has been achieved, execution of the Sewer Extension Agreement completed, and assignment of a Water Quality Management Permit for construction has been made, then a "Job Conference" may be scheduled to discuss the project with the Contractor and UAJA Inspectors prior to the commencement of construction.

- B. As-Built Drawings: At the completion of construction, the Authority will perform a televisual inspection of the Collector Sewers and Laterals. If acceptable, notification will be provided to the Developer to proceed with the submission of preliminary "As-Built" drawings. Preliminary as-built drawings shall illustrate the installed system in conformance with requirements of Section 2.04 (B). The Developer and/or Engineer shall submit one (1) paper copy and one (1) portable document format (pdf) file to the UAJA and one (1) PDF file to the Consultant. The UAJA will collaborate with the Consultant for the review. Once all comments have been addressed, promptly submit As-built data detailed in Appendix D (Specifications for Electronic Submission) to enable a timely update of the Authority's Geographic Information System (GIS). Upon receipt and success incorporation of the data into the GIS to validate formatting conformance, notification will be provided to the Developer/Engineer to finalize submission of the As-

Built Drawings. Within 30 days, submit two (2) paper copies and one (1) PDF file to the Authority and one (1) PDF to the Consultant.

- C. In addition to the As-Built Drawings required above, if the Authority deems it necessary, the Developer shall provide three (3) sets of any other plans, catalog cuts and specifications, as might be furnished for his project by a material or equipment manufacturer, whether it be a material, installation or maintenance specification.
- D. If the Project requires a DEP WQM permit for construction, then all submissions must be increased by two (2) additional sets for submission by the Authority to the Department for review. This includes both Design and As-Built drawings.
- E. If the Project requires the construction of a Pump Station or other facility containing mechanic or electrical equipment, the Developer shall provide two print sets of Operation and Maintenance Manuals and one (1) set as a PDF file.
- F. If inspection Escrow money is owed to the Authority, it will be identified in the As-Built Drawings approval letter and invoiced, accordingly. The invoice must be paid in full according to the terms of the invoice. If there is a balance to the escrow, it cannot be refunded until all requirements are met.
- G. All documents required for finalization must be submitted and acceptable and all inspection invoices must be paid before issuance of connection permits.

2.02 MINIMUM STANDARDS FOR DESIGN

- A. Reference is made to the Minimum Standards for Construction Drawings contained herein and Section 1.02 for design standards not specified below. Reference is also made to the Domestic Wastewater Facilities Manual published by the Commonwealth of Pennsylvania, Department of Environmental Protection, Bureau of Water Quality Management, latest edition. In the event these standards require stricter standards than the Domestic Wastewater Facilities Manual published by the Commonwealth, these specifications take precedence.
- B. No mainline sewer pipe shall be less than eight (8) inches in diameter with the exception of service laterals, which shall be six (6) inches in diameter.
- C. All sewer pipe shall have a minimum of 4 feet of cover. Do not propose sewer mains in areas with fill greater than five (5) feet.
- D. Do not propose sewer mainlines within 10 feet from structures.
- E. The following are the minimum slopes that shall be provided:

| Pipe Size (inches) | Minimum Slope in Feet per 100 Feet |
|--------------------|------------------------------------|
| 8 | 0.50 |
| 10 | 0.38 |
| 12 | 0.32 |
| 14 | 0.27 |
| 15 | 0.25 |
| 16 | 0.24 |
| 18 | 0.22 |
| 21 | 0.20 |
| 24 | 0.18 |

| | |
|----|-------|
| 27 | 0.167 |
| 30 | 0.158 |
| 36 | 0.146 |

- F. The maximum distance between manholes shall be three-hundred (300) feet. A manhole shall be provided at every change in horizontal and/or vertical alignment and as a termination for all 8 inch or greater diameter pipe.
- G. A minimum of 0.2 foot of drop is required across a manhole.
- H. Manholes greater than twenty (20) feet deep shall be a minimum of five (5) feet in diameter. Manholes greater than twenty (20) feet deep shall contain intermediate platforms. Maximum distance between platforms shall be twenty (20) feet vertically (minimum distance shall be ten (10) feet vertically).
- I. The manholes receiving pumped flow, and the following manhole shall be lined with HDPE or PVC.
- J. For new home construction, gravity basement service, as defined in 1.04 (F), shall be provided.
- K. When required by the Authority, any Developer desiring to discharge non-domestic wastewater to the sanitary sewer shall install a suitable control manhole or manholes on each connecting sewer or sewers (or each lateral connection) to facilitate observation, sampling, and measurement of the flow of non-domestic wastewater. At the discretion of the Authority the Developer must plumb the building so as to separate domestic and non-domestic wastewater. Such control manhole or manholes shall be accessible and safely located and shall be constructed in accordance with the plans approved by the Authority. The manhole or manholes shall be installed by the Developer at their expense and shall be maintained by the Developer so as to be safe and accessible to the Authority or its authorized representatives at all times.

2.03 STANDARDS FOR DESIGN DRAWINGS

- A. The Plans for construction shall include the elements as provided in Appendix C – Checklist for Design (and As Built) Drawings.

2.04 STANDARDS FOR "AS-BUILT" DRAWINGS

- A. The as-built plans shall include the elements as provided in Appendix C – Checklist for Design (and As Built) Drawings.

2.05 PLANS TO CONTRACTOR

- A. A sufficient number of Plans and Specifications shall be made available by the Developer to the Contractor or Contractors performing the work.

3.0 SCOPE OF WORK

3.01 GENERAL

- A. The work included in the proposed sewer construction shall be defined in detail and be complete in scope so that in no way shall the Authority be held responsible for any interconnection work or maintenance of roadway paving after final inspection and acceptance of the work.
- B. The Developer, or the Contractor under the construction contract with the Developer if such be the case, shall furnish all plant, materials, equipment, supplies, labor, transportation, fuel, power, water and air necessary to complete and test the work properly, in accordance with the Specifications and Plans thereof.
- C. The work shall be complete and all the work, materials, and services not expressly called for in the Specifications or not shown on the Plans, which are necessary and required for the proper construction and operation of all items of work and equipment specified and shown, shall be performed, furnished and installed to the satisfaction of all regulatory agencies and governing bodies and the Authority.

3.02 QUANTITIES AND AMOUNTS OF WORK

- A. For purposes of establishing a book value of the sewer system of the Authority, copies of all lump sum and unit prices given to the Developer by the Contractor (Contractor's proposal to complete the work) shall be given to the Authority.
- B. Field changes in the work, requiring more or less of the items for which prices are stipulated in the Proposal, may be made upon written approval of the Authority. The "scope of work" must remain such that the Developer provides a complete, operational system.
- C. Records of final (As-Built) quantities along with lump sum or unit price tabulations shall be given to the Authority.

3.03 CONTRACTOR TO CHECK PLANS AND DATA

- A. The Contractor is required to check all dimensions and quantities on the Plans or Schedules given by the Developer's Engineer, and the Contractor shall notify the Engineer or Developer of all errors, omissions, conflicts, and discrepancies found therein. Contractor will not be allowed to take advantage of any error or omission in these Specifications, as the Authority shall furnish full instructions to the Developer should such errors or omissions be discovered, and the Developer shall carry out such instructions as if originally specified. Figures marked on the Plans shall, in general, be followed in preference to scale measurements. Large-scale drawings shall, in general, govern small-scale drawings. In all cases where dimensions are governed by conditions already established, the Contractor shall depend entirely on measurements by self. As a condition of overall approval and acceptance by the Authority, the Developer must agree to save harmless the Authority from any damage resulting from errors or omissions.

END OF SECTION