

APPENDIX A
APPLICATION FORM

WASHINGTON TOWNSHIP

1021 Washington Blvd.
Bangor, Pa. 18013

Phone 610-588-1524

Fax 610-588-0245

Zoning Department

Application for Subdivision or Land Development

A. GENERAL INFORMATION:

Date of Application: _____

Name of Subdivision/Submission: _____

Location: _____

B. PLOT INFORMATION:

Parcel ID: _____

Zoning District: _____

Total Acres: _____

Number of Lots: _____

Minimum Lot Size: _____

Proposed Plot

Improvements: _____

C. SUBMISSION:

☐ Major Subdivision (4 Lots or more)

☐ Minor Subdivision (3 Lots or less)

☐ Land Development

☐ Site Plan Review

☐ Lot line Adjustment

D. PLAN:

☐ New

☐ Preliminary

☐ Revised

☐ Sketch

☐ Preliminary /Final

☐ Alternate

E. OWNER/APPLICANT/ENGINEER:

Applicant's Name: _____ **Phone:** _____

Address: _____ **City:** _____ **State:** _____ **Zip:** _____

Property Owner's Name: _____ **Phone:** _____

Address: _____ **City:** _____ **State:** _____ **Zip:** _____

Engineer's Name: _____ **Phone:** _____

F. INSTRUCTIONS:

THE FOLLOWING ITEMS SHALL BE SUBMITTED NOT LATER THAN 21 DAYS PRIOR TO THE MEETING:

Township Planning Commission Meetings are held on the third Tuesday of the month.

(Incomplete applications will not be accepted.)

(Please check when completed)

Ten (10) copies of each:

☐ Completed Application Form

☐ All supporting documents

☐ Affidavit of Posting

(Property must be posted at least 14 days before the meeting)

One (1) copy of each:

☐ Electronic copy of the entire submission package in PDF format or equivalent

(Contained in a CD, E-Mail, or equivalent)

Check or Money Order:

☐ Required fee – *(Check or Money Order is to be made payable to "Washington Township".)*

G. DISCLAIMER: The Township reserves the right to require additional information and additional copies of the Plans. Initial fees are non-refundable. Any charges over and above the initial fees are the responsibility of the applicant and must be paid in full, prior to the release of the signed final approved plans.

I, the undersigned, hereby certify that all of the information provided in this application is true and correct and I hereto agree to the terms and conditions set forth in this application.

Applicant's Signature: _____ **Date:** _____

~~~~~  
**(FOR OFFICE USE ONLY)**

**Fee(s) \$** \_\_\_\_\_

**Check Number:** \_\_\_\_\_

**Received By:** \_\_\_\_\_

**Date:** \_\_\_\_\_

## WASHINGTON TOWNSHIP

1021 Washington Blvd.  
Bangor, Pa. 18013

Phone 610-588-1524

Fax 610-588-0245

Zoning Department

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### **NOTICE TO ALL APPLICANTS FOR SUBDIVISION AND/OR LAND DEVELOPMENT**

The Applicant for Subdivision and/or Land Development must post the property involved 14 days prior to the scheduled Planning Commission meeting in accordance with Section 3.3 B.3.

The Applicant shall provide an Affidavit of Posting prior to the acceptance of the submission by the Planning Commission for review.

Failure of the Applicant to post the property and submit the affidavit of posting will require Washington Township to advertise once each week for two successive weeks in a newspaper of general circulation within the municipality. The first publication shall not be more than 30 days and the second publication shall not be less than 7 days before the Planning Commission meeting.

Advertising will require the hearing to be held the month after submission in order to comply with the Public Notice requirements of the SALDO and MPC.

The cost of the advertising shall be the responsibility of the Applicant.

# NOTICE OF PUBLIC MEETING

## WASHINGTON TOWNSHIP PLANNING COMMISSION

**SCHEDULED MEETING:** Beginning at 7:00 PM

on \_\_\_\_\_, 20\_\_\_\_

**LOCATION:** The Washington Township Municipal Building  
1021 Washington Blvd., Bangor, PA.

**WILL CONSIDER REVIEW OF:** Sketch Plan – Preliminary Plan - Preliminary/Final  
Or Land Development Plan Submission

\_\_\_\_\_ Subdivision – Land Development

**DESCRIPTION:** \_\_\_\_\_  
\_\_\_\_\_

**UNIFIED PARCEL I.D. MAP** \_\_\_\_\_ **BLOCK** \_\_\_\_\_ **LOT** \_\_\_\_\_

**APPLICANT:**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**OWNER OF RECORD:**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## **Affidavit of Posting**

Re: Posting of Premises Located at \_\_\_\_\_,

Washington Township, Northampton County, Pennsylvania.

### **NOTICE OF PUBLIC MEETING FOR SUBDIVISION AND/OR LAND DEVELOPMENT**

Subdivision/Land Development Name: \_\_\_\_\_

Unified Parcel I.D. Map \_\_\_\_\_ Block \_\_\_\_\_ Lot \_\_\_\_\_

Owner of Record: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Applicant (if other than owner): \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

I, the undersigned, hereby certify that on the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_, at \_\_\_\_\_ hours that I personally posted the premises, at \_\_\_\_\_, Washington Township, Northampton County, Pennsylvania.

\_\_\_\_\_  
Print Name

\_\_\_\_\_  
Signature

**APPENDIX B**  
**PLAN CHECKLISTS**

## **Sketch Plan Checklist**

### **General Submission Items:**

- ☐ 1. Ten (10) copies of the completed Application Form
- ☐ 2. Ten (10) copies of the Sketch Plan Checklist
- ☐ 3. Ten (10) copies of the Sketch Plan (Prints 24" x 36")
- ☐ 4. One (1) copy of the Sketch Plan (11' x 17')
- ☐ 5. One (1) electronic copy of the entire submission package in PDF format or equivalent
- ☐ 6. Ten (10) copies of all supporting documents
- ☐ 7. Submission to LVPC (applicant option)
- ☐ 8. The required fee (in accordance with the Township fee schedule)
- ☐ 9. Affidavit of Posting or Proof of Publication

### **Applicant:**

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Telephone: \_\_\_\_\_

### **Applicant's Statement:**

I hereby certify all of the above information is included in this application.

Applicant's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

*Note: The Township may require the submission of additional copies of the Plan and other information.*



**Appendix B. 1**  
**Minor Subdivision**  
**Final Plan Checklist**

**A. Property Information:**

1. Property Location: \_\_\_\_\_
2. Property Owner's Name: \_\_\_\_\_ Phone: \_\_\_\_\_
3. Property Owner's Address: \_\_\_\_\_
4. Applicant's Name: \_\_\_\_\_ Phone: \_\_\_\_\_
5. Applicant's Address: \_\_\_\_\_

**B. General Submission Items:**

- |                                                           |                                                                                          |
|-----------------------------------------------------------|------------------------------------------------------------------------------------------|
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 1. Ten (10) copies of completed Application form.                                        |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 2. Ten (10) copies of the Preliminary/Final Plan Checklist.                              |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 3. Ten (10) copies of Preliminary/Final Plan (Prints 24" x 36").                         |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 4. One (1) copy of the Preliminary/Final Plan (11" x 17").                               |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 5. One (1) electronic copy of the entire submission package in PDF format or equivalent. |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 6. Ten (10) copies of all supporting documents.                                          |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 7. Seven (7) sets of Planning Module.                                                    |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 8. Review letter from PennDOT (if applicable).                                           |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 9. The required fee (in accordance with the Township fee schedule).                      |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 10. Affidavit of Posting or Proof of Publication.                                        |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 11. Prepared Response letter from Professional Engineer/Surveyor/Landscape Architect.    |

**C. Specific Plan Requirements – Drafting Standards:**

- |                                                           |                                                                                                                                                                   |
|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 1. Drawings at a size of 24" x 36" and 11" x 17". Other sizes may be permitted if approved by the Township Engineer.                                              |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 2. Written and graphic scales as approved by the Township Engineer. Typical acceptable scales are 1"=20', 1"=30', 1"=40', 1"=50', 1"=60', and 1"=100' or similar. |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 3. Dimensions set in feet and decimal part thereof and bearings in degrees, minutes, and seconds.                                                                 |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 4. Sheets numbered and showing relationship to total number of sheets.                                                                                            |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 5. An adequate legend indicating clearly which features are existing and which are proposed.                                                                      |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 6. Revisions noted, if Plan is a revision of previously submitted plan.                                                                                           |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 7. A boundary line shown as a solid heavy line.                                                                                                                   |

**D. General Information:**

- |                                                           |                                                                                                                                                                                                                              |
|-----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 1. Name and location of subdivision.                                                                                                                                                                                         |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 2. Name and address of:<br>Landowner.<br>Developer.<br>Corporate officers and major shareholders.<br>Adjoining property owners.                                                                                              |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 3. Executed Owner's Statement (see Appendix C).                                                                                                                                                                              |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 4. Name, address, signature and seal of the licensed engineer or surveyor and Executed Engineer's/Surveyor's Statement (see Appendix C).                                                                                     |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 5. Approval/review signature blocks for:<br>Township Supervisors.<br>Township Planning Commission.<br>Township Engineer.<br>3" x 5" space for Lehigh Valley Planning Commission's approval seal.                             |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 6. Location map at a scale of 1" = 2,000' (or other scale acceptable to the Township Engineer) showing the relation of the site to streets and all Zoning District and Municipal boundaries within five hundred (500') feet. |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 7. Graphic and/or written scale.                                                                                                                                                                                             |

- |                                                           |                                                                                                                                                   |
|-----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 8. North arrow.                                                                                                                                   |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 9. Date of plan and all subsequent revision dates.                                                                                                |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 10. Site Boundary and Boundaries of all adjoining properties with names and addresses of Landowners.                                              |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 11. The Deed Book volume and page number, as entered by the County Recorder, referencing the latest source of title to the land being subdivided. |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 12. Tax Map sheet, block and lot number for the tract being subdivided.                                                                           |

**E. Natural Features** – Does the Plan include the location of the following natural features on the site and within 50 feet of the site:

- |                                                           |                                                                                                     |
|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 1. Contour lines at an interval of not more than two (2') feet if slopes are over 5%.               |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 2. Permanent and seasonal high water table areas.                                                   |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 3. Watercourses, lakes and wetlands with names, if any.                                             |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 4. Location and extent of various soil types with SCS definitions and DEP classifications for each. |

**F. Boundary Lines of Tract:**

- |                                                           |                                                                         |
|-----------------------------------------------------------|-------------------------------------------------------------------------|
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 1. Boundary lines of the area being subdivided.                         |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 2. Location and type of all existing and proposed monumentation.        |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 3. Deed descriptions, prepared by an appropriate licensed professional. |

**G. Man-Made Features** – Does the plan include the location of the following man-made features on the site and within 50 feet of the site:

- |                                                           |                                                                                                                                                                                                                                                                                 |
|-----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 1. Contour sufficient bearings, length of lines, radii, arc lengths, street widths, rights-of-way, and easement widths of all lots, streets, rights-of-way, easements and community or public areas to accurately and completely reproduce each and every course on the ground. |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 2. Existing lot layout on the site.                                                                                                                                                                                                                                             |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 3. Historic sites or structures, including name and description.                                                                                                                                                                                                                |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 4. Sewer lines, water lines, stormwater drains and culverts.                                                                                                                                                                                                                    |

☐ Yes ☐ N/A

5. Utility easements and restrictive covenants and easements for purposes which might affect development.

**H. Zoning Requirements:**

☐ Yes ☐ N/A

1. Applicable Zoning Districts.

☐ Yes ☐ N/A

2. Lot size and yard requirements.

☐ Yes ☐ N/A

3. Required open space.

☐ Yes ☐ N/A

4. Building setback line.

**I. Proposed Layout:**

☐ Yes ☐ N/A

1. Total acreage of the site.

☐ Yes ☐ N/A

2. Proposed lot layout with identification number and total number of lots.

☐ Yes ☐ N/A

3. Lot width, depth and area.

☐ Yes ☐ N/A

4. Rights-of-way, restrictive covenants and easements for all drainage, utilities and other purposes which might affect development, with designations of areas to be dedicated to the Township.

☐ Yes ☐ N/A

5. Open space areas and recreation areas.

☐ Yes ☐ N/A

6. Well location.

☐ Yes ☐ N/A

7. Primary Sewage Disposal Bed.

☐ Yes ☐ N/A

8. Secondary Sewage Disposal Bed.

☐ Yes ☐ N/A

9. Soil probe location with depth to limiting zone.

☐ Yes ☐ N/A

10. Percolation test location with average test rate.

☐ Yes ☐ N/A

11. Storm drainage facilities or structures.

☐ Yes ☐ N/A

12. Private deed restrictions already imposed or to be imposed as a condition to sale.

**J. Supportive Documents and Information:**

☐ Yes ☐ N/A

1. Residual lands sketch.

☐ Yes ☐ N/A

2. Planning Module.

☐ Yes ☐ N/A

3. Legal descriptions, prepared by an appropriate licensed professional, for all lots and for all roadways and easements to be dedicated to the Township.

**K. APPLICANT'S STATEMENT:**

I hereby certify that all of the information contained in this application is true and correct according to my knowledge. Further, I hereto acknowledge the Township may require the submission of additional copies of the Plan and/or other information to complete this submission. Refer to Fee Schedule and Payment Requirements.

Applicant's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

**L. ENGINEER'S/SURVEYOR'S STATEMENT**

I, \_\_\_\_\_, a registered professional Engineer/Surveyor of the Commonwealth of Pennsylvania, do hereby certify that the completed checklist is true and correct and in compliance with the this ordinance.

Engineer's/Surveyor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

**Appendix B. 2**  
**Major Subdivision & Land Development**  
**Preliminary Plan Checklist**

**A. Property Information:**

1. Property Location: \_\_\_\_\_
2. Property Owner's Name: \_\_\_\_\_ Phone: \_\_\_\_\_
3. Property Owner's Address: \_\_\_\_\_
4. Applicant's Name: \_\_\_\_\_ Phone: \_\_\_\_\_
5. Applicant's Address: \_\_\_\_\_

**B. General Submission Items:**

- |                                                           |                                                                                          |
|-----------------------------------------------------------|------------------------------------------------------------------------------------------|
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 1. Ten (10) copies of completed Application form.                                        |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 2. Ten (10) copies of the Preliminary Plan Checklist.                                    |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 3. Ten (10) copies of the Preliminary Plan (Prints 24" x 36").                           |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 4. One (1) copy of the Preliminary Plan (11" x 17").                                     |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 5. One (1) electronic copy of the entire submission package in PDF format or equivalent. |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 6. Ten (10) copies of all supporting documents.                                          |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 7. Seven (7) sets of Planning Module.                                                    |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 8. Review letter from Northampton County Conservation District.                          |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 9. Review letter from PennDOT (if applicable).                                           |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 10. Review letter from appropriate utility companies.                                    |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 11. The required fee (in accordance with the Township fee schedule).                     |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 10. Affidavit of Posting or Proof of Publication.                                        |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 11. Prepared Response letter from Professional Engineer/Surveyor/Landscape Architect.    |

**C. Specific Plan Requirements – Drafting Standards:**

- |                                                           |                                                                                                                                                                                                     |
|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 1. Drawings at a size of 24" x 36" and 11" x 17". Other sizes may be permitted if approved by the Township Engineer.                                                                                |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 2. Written and graphic scales as approved by the Township Engineer. Typical acceptable scales are 1"=20', 1"=30', 1"=40', 1"=50', 1"=60', and 1"=100' or similar.                                   |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 3. Profiles drawn at a vertical scale of:<br>Five (5') feet per inch or ten (10') feet per inch (for horizontal scale of 1"=50')<br>or<br>Ten (10') feet per inch (for horizontal scale of 1"=100') |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 4. Dimensions set in feet and decimal part thereof and bearings in degrees, minutes, and seconds.                                                                                                   |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 4. Sheets numbered and showing relationship to total number of sheets.                                                                                                                              |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 5. An adequate legend indicating clearly which features are existing and which are proposed.                                                                                                        |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 6. Revisions noted and dated, if Plan is a revision of previously submitted plan.                                                                                                                   |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 7. A boundary line shown as a solid heavy line.                                                                                                                                                     |

**D. General Information:**

- |                                                           |                                                                                                                                                                                             |
|-----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 1. A title, "Preliminary Plan".                                                                                                                                                             |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 2. Sheet title (eg. "Layout Plan")                                                                                                                                                          |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 3. Name and location of subdivision or land development.                                                                                                                                    |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 3. Graphic and/or written scales.                                                                                                                                                           |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 4. Date of plan and all subsequent revision dates.                                                                                                                                          |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 5. Name, address, signature and seal to Engineer's Statement (see Appendix C) of the licensed engineer, surveyor, architect or landscape architect responsible for preparation of the Plan. |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 6. North Arrow.                                                                                                                                                                             |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 7. Site boundaries with survey precisions of 1 in 10,000 or better.                                                                                                                         |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 8. Site Boundary and Boundaries of all adjoining properties with names and addresses of landowners.                                                                                         |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 9. Location and type of all existing monumentation.                                                                                                                                         |

**E. Natural Features:**

- |                                                           |                                                                                                                                         |
|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 1. Slope areas (0-8%, 8-12%, 12-15%, 15-25%, over 25%).                                                                                 |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 2. Permanent and seasonal high water table areas.                                                                                       |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 3. Location and extent of various soil types with SCS classifications and DEP definitions for each and 100-year floodplain (if mapped). |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 4. Forested areas.                                                                                                                      |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 5. Watercourses, lakes and wetlands (with names, if any).                                                                               |

**F. Man-Made Features – Does the Plans include the location of the following man-made features on the site being subdivided or developed and within 100 feet of the site:**

- |                                                           |                                                                                                                       |
|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 1. Streets and right-of-way (including names and rights-of-way widths) on the site and on immediately adjacent tracts |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 2. Existing lot layout on the site and on immediately adjacent tracts.                                                |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 3. Historic sites or structures, including name and description.                                                      |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 4. Sewer lines, water lines, storm water drains and culverts.                                                         |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 5. Bridges.                                                                                                           |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 6. Utility easements and restrictive covenants and easements for purposes which might affect development.             |

**G. Proposed Features:**

- |                                                           |                                                                                                                                                                                                                                                                       |
|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 1. Layout of streets with centerlines, cartways and rights-of-way, and proposed names.                                                                                                                                                                                |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 2. Layout of lots with identification number.                                                                                                                                                                                                                         |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 3. Building setback lines from all lot lines.                                                                                                                                                                                                                         |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 4. The arrangement and use of buildings and parking areas in nonresidential developments and planned residential developments, with all necessary dimensions and number of parking spaces. (Elevations and perspective sketches of proposed buildings are encouraged) |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 5. Rights-of-way, restrictive covenants and easements for all drainage, utilities or other purposes which might affect development.                                                                                                                                   |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 6. Sidewalks and pedestrian paths.                                                                                                                                                                                                                                    |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 7. Open space areas.                                                                                                                                                                                                                                                  |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 8. Recreation facilities.                                                                                                                                                                                                                                             |



- |                                                           |                                                                                                |
|-----------------------------------------------------------|------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 9. Proposed monumentation with reference to proposed improvements and proposed final contours. |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 10. Well location.                                                                             |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 11. Primary Sewage Disposal Bed.                                                               |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 12. Secondary Sewage Disposal Bed.                                                             |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 13. Soil probe location.                                                                       |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 14. Percolation test location.                                                                 |

**H. Layout Plan:**

- |                                                           |                                                                                                                                                                                                                                        |
|-----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 1. Name and address of landowner.                                                                                                                                                                                                      |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 2. Names and addresses of developers.                                                                                                                                                                                                  |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 3. Names and addresses of Corporate officers and major shareholders.                                                                                                                                                                   |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 4. Names and address of adjoining property owners.                                                                                                                                                                                     |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 5. Owners Statement of Acknowledgement (see Appendix C).                                                                                                                                                                               |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 6. Approval/review signature blocks (see Appendix C).                                                                                                                                                                                  |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 7. Location map at a scale of 1"=2000' (or other scale acceptable to the Township Engineer) showing the relation of the site to adjoining properties, streets, zoning district boundaries, and municipal boundaries within 1000' feet. |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 8. Project Summary List (see Section 5.3 E.5.a.-n).                                                                                                                                                                                    |

**I. Proposed Features:**

- |                                                           |                                                                                       |
|-----------------------------------------------------------|---------------------------------------------------------------------------------------|
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 1. Approximate dimensions, and areas of lots expressed in both square feet and acres. |
|-----------------------------------------------------------|---------------------------------------------------------------------------------------|

**J. Streets:**

- |                                                           |                                                                                                                                   |
|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 1. Cartway and right-of-way width.                                                                                                |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 2. Centerline with bearings, distances, horizontal curve data and stations corresponding to the profile.                          |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 3. Right-of-way lines and curb lines with horizontal curve radii at intersections?                                                |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 4. Beginning and end of proposed construction.                                                                                    |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 5. Tie-ins by courses and distances to intersection of all public roads, with their names and widths of cartway and right-of-way. |

**K. Grading Plan:**

- |                                                           |                                                                                                                                          |
|-----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 1. Existing and proposed contour lines at intervals of two (2') feet (if slope is 15% or less and five (5') feet (if slope is over 15%). |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 2. Street centerline data and stations corresponding to the profile.                                                                     |

**L. Storm Drainage:**

- |                                                           |                                                                                                         |
|-----------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 1. Location and size of facilities with stations corresponding to the profile.                          |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 2. Locations of inlets with invert elevation of flow line and grade at the top of each line.            |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 3. Watershed areas for each drainage structure or swale.                                                |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 4. Property lines and ownership, with details of easements where required.                              |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 5. Beginning and end of proposed construction.                                                          |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 6. Location of all other drainage facilities and public utilities in the vicinity of storm drain lines. |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 7. Hydraulic system standards for culverts, bridge structures and/or other storm facilities.            |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 8. Location and size of proposed drainage swales.                                                       |

**M. Utility Plan:**

**i. Proposed on-lot sanitary sewage disposal systems.**

- |                                                           |                                                                                                                                           |
|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 1. Existing and proposed contour lines at intervals of two (2') feet (if slope is 15% or less) and five (5') feet (if slope is over 15%). |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 2. Proposed location of the well.                                                                                                         |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 3. Proposed or typical location of dwelling.                                                                                              |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 4. Proposed location of subsurface disposal bed and alternate bed.                                                                        |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 5. Location of percolation test holes and soil probe pit.                                                                                 |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 6. Permanent and seasonal high water table areas.                                                                                         |

**ii. Proposed centralized sanitary sewers.**

- |                                                           |                                                                                                  |
|-----------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 1. Location and size of line with stations corresponding to the profile.                         |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 2. Location of manholes with invert elevation of flow line and grade at the top of each manhole. |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 3. Property lines and ownership, with details of easements where required.                       |

- ☐ Yes ☐ N/A 4. Beginning and end of proposed construction.
- ☐ Yes ☐ N/A 5. Location of laterals.
- ☐ Yes ☐ N/A 6. Location of all other drainage facilities and public utilities in the vicinity of sanitary sewer lines.

**iii. Proposed centralized water system.**

- ☐ Yes ☐ N/A 1. Location and size of water line.
- ☐ Yes ☐ N/A 2. Plans pertaining to water source.
- ☐ Yes ☐ N/A 3. Fire hydrants.

**iv. Proposed on-lot water system.**

- ☐ Yes ☐ N/A 1. Location of all wells (existing and proposed).
- ☐ Yes ☐ N/A 2. Street lighting.

**N. Erosion and Sediment Plan:**

- ☐ Yes ☐ N/A 1. Comply with regulations of the Northampton County Conservation District.
- ☐ Yes ☐ N/A 2. Use stormwater runoff calculations governed by the parameters set forth in Appendix D.

**O. Road Profiles:**

- ☐ Yes ☐ N/A 1. Profile of existing ground surfaces along centerline of street.
- ☐ Yes ☐ N/A 2. Proposed centerline grade with percent on tangents and elevations at fifty (50') foot intervals.
- ☐ Yes ☐ N/A 3. All vertical curve data including length, elevations and minimum sight distance as required by Article 10.

**P. Sanitary Sewer and Storm Drain Profiles:**

- ☐ Yes ☐ N/A 1. Profiles of existing ground surface with elevations at top of manholes or inlets.
- ☐ Yes ☐ N/A 2. Profile of storm drain or sewer showing type and size of pipe, grade, cradle, manhole and inlet locations, and invert elevations along flow line.
- ☐ Yes ☐ N/A 3. All line crossings of other utilities.
- ☐ Yes ☐ N/A 4. Invert elevations along flow line at manholes, inlets, and at line crossing of other utilities.

**Q. Construction Details:**

- |                              |                              |                                                                                                |
|------------------------------|------------------------------|------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> Yes | <input type="checkbox"/> N/A | 1. Typical cross-section and specifications for street construction as required by Article 10. |
| <input type="checkbox"/> Yes | <input type="checkbox"/> N/A | 2. Drainage swale cross-section and construction materials.                                    |
| <input type="checkbox"/> Yes | <input type="checkbox"/> N/A | 3. Pipe bedding details.                                                                       |
| <input type="checkbox"/> Yes | <input type="checkbox"/> N/A | 4. Storm drainage structures.                                                                  |
| <input type="checkbox"/> Yes | <input type="checkbox"/> N/A | 5. Sanitary sewer structures.                                                                  |
| <input type="checkbox"/> Yes | <input type="checkbox"/> N/A | 6. Curb and sidewalk details.                                                                  |

**R. Supportive Documents and Information:**

- |                              |                              |                                                                                                                                             |
|------------------------------|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> Yes | <input type="checkbox"/> N/A | 1. Private deed restrictions or covenants already imposed or to be imposed as a condition of sale.                                          |
| <input type="checkbox"/> Yes | <input type="checkbox"/> N/A | 2. Map of all property holdings of the owner within 1000 feet of the proposed subdivision, indicating the site of the proposed subdivision. |
| <input type="checkbox"/> Yes | <input type="checkbox"/> N/A | 3. A sketch plan of a proposed road system with any property holdings contiguous to the proposed subdivision.                               |
| <input type="checkbox"/> Yes | <input type="checkbox"/> N/A | 4. Certification of the Public Water System.                                                                                                |
| <input type="checkbox"/> Yes | <input type="checkbox"/> N/A | 5. Certification of a Centralized Sewage Disposal System.                                                                                   |
| <input type="checkbox"/> Yes | <input type="checkbox"/> N/A | 6. Certification of On-Lot Sewage System.                                                                                                   |
| <input type="checkbox"/> Yes | <input type="checkbox"/> N/A | 7. Storm drainage calculations. (See Appendix D)                                                                                            |
| <input type="checkbox"/> Yes | <input type="checkbox"/> N/A | 8. Development Statement and Schedule.                                                                                                      |
| <input type="checkbox"/> Yes | <input type="checkbox"/> N/A | 9. Highway Occupancy Permit.                                                                                                                |

**S. Applicant's Statement:**

I hereby certify that all of the information contained in this application is true and correct according to my knowledge. Further, I hereto acknowledge the Township may require the submission of additional copies of the Plan and/or other information to complete this submission.

Applicant's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

**Appendix B. 3**  
**Major Subdivision & Land Development**  
**Final Plan Checklist**

**A. Property Information:**

1. Property Location: \_\_\_\_\_
2. Property Owner's Name: \_\_\_\_\_ Phone: \_\_\_\_\_
3. Property Owner's Address: \_\_\_\_\_
4. Applicant's Name: \_\_\_\_\_ Phone: \_\_\_\_\_
5. Applicant's Address: \_\_\_\_\_

**B. General Submission Items:**

- |                                                           |                                                                                          |
|-----------------------------------------------------------|------------------------------------------------------------------------------------------|
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 1. Ten (10) copies of completed Application form.                                        |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 2. Ten (10) copies of the final Plan Checklist.                                          |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 3. Ten (10) copies of the final Plan (Prints 24" x 36").                                 |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 4. One (1) mylar reproducible of the Final Plan (if required).                           |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 5. One (1) copy of the Final Plan (11" x 17").                                           |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 6. One (1) electronic copy of the entire submission package in PDF format or equivalent. |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 7. Ten (10) copies of all supporting documents.                                          |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 8. Review letter from Northampton County Conservation District.                          |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 9. Review letter from PennDOT (if applicable)?                                           |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 10. Review letter from appropriate utility companies.                                    |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 11. The required fee (in accordance with the Township fee schedule).                     |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 12. Prepared Response letter from Professional Engineer/Surveyor/Landscape Architect.    |

**C. Specific Plan Requirements – Drafting Standards:**

- |                                                           |                                                                                                                      |
|-----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 1. Drawings at a size of 24" x 36" and 11" x 17". Other sizes may be permitted if approved by the Township Engineer. |
|-----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|

- |                                                           |                                                                                                                                                                                                      |
|-----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 2. Written and graphic scales as approved by the Township Engineer. Typical acceptable scales are 1"=20', 1"=30', 1"=40', 1"=50', 1"=60', and 1"=100' or similar.                                    |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 3. Profiles drawn at a vertical scale of:<br>Five (5') feet per inch or ten (10') feet per inch (for horizontal scale of 1"=50')<br>or<br>Ten (10') feet per inch (for horizontal scale of 1"=100'). |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 4. Dimensions set in feet and decimal part thereof and bearings in degrees, minutes, and seconds.                                                                                                    |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 4. Sheets numbered and showing relationship to total number of sheets.                                                                                                                               |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 5. An adequate legend indicating clearly which features are existing and which are proposed.                                                                                                         |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 6. Revisions noted and dated, if Plan is a revision of previously submitted plan.                                                                                                                    |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 7. A boundary line shown as a solid heavy line.                                                                                                                                                      |

**D. General Information:**

- |                                                           |                                                                                                                                                                                             |
|-----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 1. A title, "Final Plan".                                                                                                                                                                   |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 2. Sheet title (eg. "Layout Plan")                                                                                                                                                          |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 3. Name and location of subdivision or land development.                                                                                                                                    |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 3. Graphic and/or written scales.                                                                                                                                                           |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 4. Date of plan and all subsequent revision dates.                                                                                                                                          |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 5. Name, address, signature and seal to Engineer's Statement (see Appendix C) of the licensed engineer, surveyor, architect or landscape architect responsible for preparation of the Plan. |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 6. North Arrow.                                                                                                                                                                             |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 7. Site boundaries with survey precisions of 1 in 10,000 or better.                                                                                                                         |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 8. Site Boundary and Boundaries of all adjoining properties with names and addresses of landowners.                                                                                         |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 9. Location and type of all existing monumentation.                                                                                                                                         |

**E. Natural Features:**

- |                                                           |                                                         |
|-----------------------------------------------------------|---------------------------------------------------------|
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 1. Slope areas (0-8%, 8-12%, 12-15%, 15-25%, over 25%). |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 2. Permanent and seasonal high water table areas.       |

- |                                                           |                                                                                                                                         |
|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 3. Location and extent of various soil types with SCS classifications and DEP definitions for each and 100-year floodplain (if mapped). |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 4. Forested areas.                                                                                                                      |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 5. Watercourses, lakes and wetlands (with names, if any).                                                                               |

**F. Man-Made Features** – Does the Plans include the location of the following man-made features on the site being subdivided or developed and within 100 feet of the site:

- |                                                           |                                                                                                                       |
|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 1. Streets and right-of-way (including names and rights-of-way widths) on the site and on immediately adjacent tracts |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 2. Existing lot layout on the site and on immediately adjacent tracts.                                                |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 3. Historic sites or structures, including name and description.                                                      |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 4. Sewer lines, water lines, storm water drains and culverts.                                                         |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 5. Bridges.                                                                                                           |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 6. Utility easements and restrictive covenants and easements for purposes which might affect development.             |

**G. Proposed Features:**

- |                                                           |                                                                                                                                                                                                                                                                       |
|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 1. Layout of streets with centerlines, cartways and rights-of-way, and proposed names.                                                                                                                                                                                |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 2. Layout of lots with identification number.                                                                                                                                                                                                                         |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 3. Building setback lines from all lot lines.                                                                                                                                                                                                                         |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 4. The arrangement and use of buildings and parking areas in nonresidential developments and planned residential developments, with all necessary dimensions and number of parking spaces. (Elevations and perspective sketches of proposed buildings are encouraged) |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 5. Rights-of-way, restrictive covenants and easements for all drainage, utilities or other purposes which might affect development.                                                                                                                                   |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 6. Sidewalks and pedestrian paths.                                                                                                                                                                                                                                    |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 7. Open space areas.                                                                                                                                                                                                                                                  |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 8. Recreation facilities.                                                                                                                                                                                                                                             |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 9. Proposed monumentation with reference to proposed improvements and proposed final contours.                                                                                                                                                                        |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 10. Well location.                                                                                                                                                                                                                                                    |

- ☐ Yes ☐ N/A 11. Primary Sewage Disposal Bed.
- ☐ Yes ☐ N/A 12. Secondary Sewage Disposal Bed.
- ☐ Yes ☐ N/A 13. Soil probe location.
- ☐ Yes ☐ N/A 14. Percolation test location.

**H. Protective Covenants – Do the plans have protective covenants for:**

- ☐ Yes ☐ N/A 1. Building setbacks.
- ☐ Yes ☐ N/A 2. Clear site triangle easements (see Sections 10.4H and 10.12D).
- ☐ Yes ☐ N/A 3. Utility, drainage and slope easements.
- ☐ Yes ☐ N/A 4. "Well and sewage disposal systems shall be constructed in accordance with recommended standards of the Pennsylvania Department of Environmental Protection." (if appropriate)
- ☐ Yes ☐ N/A 5. "Individual owners of lots must apply to the Township for a sewage permit prior to undertaking the construction of an on-lot sewage disposal system." (if appropriate)
- ☐ Yes ☐ N/A 6. "The Planning Commission and Board of Supervisors have not passed upon the feasibility of any individual lot or location within a lot being able to sustain any type of well or sewage disposal system" (if appropriate).

**I. Plot Plan and Layout Plan Additional Information:**

- ☐ Yes ☐ N/A 1. Name and address of landowner.
- ☐ Yes ☐ N/A 2. Names and addresses of developers.
- ☐ Yes ☐ N/A 3. Names and addresses of corporate officers and major shareholders.
- ☐ Yes ☐ N/A 4. Names and address of adjoining property owners.
- ☐ Yes ☐ N/A 5. Owners Statement of Acknowledgement (see Appendix C).
- ☐ Yes ☐ N/A 6. Approval/review signature blocks (see Appendix C).
- ☐ Yes ☐ N/A 7. Location map at a scale of 1"=2000' (or other scale acceptable to the Township Engineer) showing the relation of the site to adjoining properties, streets, zoning district boundaries, and municipal boundaries within 1000' feet.
- ☐ Yes ☐ N/A 8. Project Summary List (see Section 5.3 E.5.a.-n).

**J. Proposed Features:**

- ☐ Yes ☐ N/A 1. Layouts of lots, with identification number.
- ☐ Yes ☐ N/A 2. Layout of streets.



- |                                                           |                                                                                                                                        |
|-----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 3. Proposed names.                                                                                                                     |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 4. Cartway and right-of-way width.                                                                                                     |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 5. Centerline with bearings, distances, and curve data.                                                                                |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 6. Right-of-way lines and curb lines with radii at intersections.                                                                      |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 7. Beginning and end of proposed construction.                                                                                         |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 8. Tie-ins by courses and distances to intersection of all public roads, with their names and widths of cartway and right-of-way.      |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 9. Building setback lines.                                                                                                             |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 10. Rights-of-way, restrictive covenants, and easements for all drainage, utilities, or other purposes which might affect development. |

**K. Plot Plan Additional Information:**

- |                                                           |                                                                     |
|-----------------------------------------------------------|---------------------------------------------------------------------|
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 1. Site boundaries with closure of 1 in 10,000.                     |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 2. Boundaries of all adjoining properties with names of landowners. |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 3. Location and type of all existing monumentation.                 |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 4. North arrow.                                                     |

**L. Location of Existing Man-Made Features Within 100 Feet of the Tract Being Subdivided:**

- |                                                           |                                                                                                                       |
|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 1. Streets and rights-of-way, including name and right-of-way widths, on the site and on immediately adjacent tracts. |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 2. Existing lot layouts on the site and on immediately adjacent tracts.                                               |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 3. Utility easements, restrictive covenants, and easements for purposes which might affect development.               |

**M. Grading Plan:**

- |                                                           |                                                                                                                                           |
|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 1. Existing and proposed contour lines at intervals of two (2') feet (if slope is 15% or less) and five (5') feet (if slope is over 15%). |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 2. Street centerline data and stations corresponding to the profile.                                                                      |

**N. Storm Drainage:**

- |                                                           |                                                                                              |
|-----------------------------------------------------------|----------------------------------------------------------------------------------------------|
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 1. Location and size of facilities with stations corresponding to the profile.               |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 2. Locations of inlets with invert elevation of flow line and grade at the top of each line. |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 3. Watershed areas for each drainage structure or swale.                                     |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 4. Property lines and ownership, with details of easements where required.                   |

- |                                                           |                                                                                                         |
|-----------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 5. Beginning and end of proposed construction.                                                          |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 6. Location of all other drainage facilities and public utilities in the vicinity of storm drain lines. |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 7. Hydraulic system standards for culverts, bridge structures and/or other storm facilities.            |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 8. Location and size of proposed drainage swales.                                                       |

**O. Utility Plan:**

**i. Proposed on-lot sanitary sewage disposal systems.**

- |                                                           |                                                                                                                                           |
|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 1. Existing and proposed contour lines at intervals of two (2') feet (if slope is 15% or less) and five (5') feet (if slope is over 15%). |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 2. Proposed location of the well.                                                                                                         |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 3. Proposed or typical location of dwelling.                                                                                              |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 4. Proposed location of subsurface disposal field and alternate field.                                                                    |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 5. Location of percolation test holes and soil probe pit.                                                                                 |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 6. Permanent and seasonal high water table areas.                                                                                         |

**ii. Proposed centralized sanitary sewers.**

- |                                                           |                                                                                                            |
|-----------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 1. Location and size of line with stations corresponding to the profile.                                   |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 2. Location of manholes with invert elevation of flow line and grade at the top of each manhole.           |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 3. Property lines and ownership, with details of easements where required.                                 |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 4. Beginning and end of proposed construction.                                                             |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 5. Location of laterals.                                                                                   |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 6. Location of all other drainage facilities and public utilities in the vicinity of sanitary sewer lines. |

**iii. Proposed centralized water system.**

- |                                                           |                                      |
|-----------------------------------------------------------|--------------------------------------|
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 1. Location and size of water line.  |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 2. Plans pertaining to water source. |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 3. Fire hydrants.                    |

**iv. Proposed on-lot water system.**

- |                                                           |                                                   |
|-----------------------------------------------------------|---------------------------------------------------|
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 1. Location of all wells (existing and proposed). |
|-----------------------------------------------------------|---------------------------------------------------|

- ☐ Yes ☐ N/A 2. Street lighting.

**P. Erosion and Sediment Plan:**

- ☐ Yes ☐ N/A 1. Comply with regulations of the Northampton County Conservation District.
- ☐ Yes ☐ N/A 2. Use stormwater runoff calculations governed by the parameters set forth in Appendix D or other methods approved by the Township Engineer.

**Q. Road Profiles:**

- ☐ Yes ☐ N/A 1. Profile of existing ground surfaces along centerline of street.
- ☐ Yes ☐ N/A 2. Proposed centerline grade with percent on tangents and elevations at fifty (50') foot intervals.
- ☐ Yes ☐ N/A 3. All vertical curve data including length, elevations and minimum sight distance as required by Article 10.

**R. Sanitary Sewer and Storm Drain Profiles:**

- ☐ Yes ☐ N/A 1. Profiles of existing ground surface with elevations at top of manholes or inlets.
- ☐ Yes ☐ N/A 2. Profile of storm drain or sewer showing type and size of pipe, grade, cradle, manhole and inlet locations, and invert elevations along flow line.
- ☐ Yes ☐ N/A 3. All line crossings of other utilities.
- ☐ Yes ☐ N/A 4. Invert elevations along flow line at manholes, inlets, and at line crossing of other utilities.

**S. Construction Details:**

- ☐ Yes ☐ N/A 1. Typical cross-section and specifications for street construction as required by Article 10.
- ☐ Yes ☐ N/A 2. Drainage swale cross-section and construction materials.
- ☐ Yes ☐ N/A 3. Pipe bedding details.
- ☐ Yes ☐ N/A 4. Storm drainage structures.
- ☐ Yes ☐ N/A 5. Sanitary sewer structures.
- ☐ Yes ☐ N/A 6. Curb and sidewalk details.

**T. Supportive Documents and Information:**

- ☐ Yes ☐ N/A 1. Private deed restrictions or covenants already imposed or to be imposed as a condition of sale.

- |                                                           |                                                                                                                                                           |
|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 2. Deed of dedication along with a plan of such improvement.                                                                                              |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 3. Non-dedicated Streets Agreement.                                                                                                                       |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 4. Open Space Agreement.                                                                                                                                  |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 5. Utilities Agreements and permits.                                                                                                                      |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 6. Storm drainage calculations (see Appendix D).                                                                                                          |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 7. Development Statement and Schedule.                                                                                                                    |
| <input type="checkbox"/> Yes <input type="checkbox"/> N/A | 8. Legal descriptions, prepared by an appropriate licensed professional, for all lots and for all roadways and easements to be dedicated to the Township. |

**U. Disclaimer:**

1. The Township may require the submission of additional copies of the Plan and/or other information to complete this submission.
2. Applicant should return a copy of this Final Plan Checklist with any revisions, corrections or resubmissions to the Township. Any changes from the original submission shall be identified with a red circle. One of the required Plan map copies should be submitted with the changes identified in red highlight or circled.
3. Applicant's Engineer should provide a certifying statement that the changes identified as part of B above are the only changes that have been made to the Plan. See Appendix C Certifications.

**V. Applicant's Statement:**

I hereby certify that all of the information contained in this application is true and correct according to my knowledge. Further, I hereto agree to the terms and conditions set forth in this application.

Applicant's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

# WASHINGTON TOWNSHIP

1021 Washington Boulevard  
Bangor, PA 18013 – 9415

Phone: (610) 588 – 1524

Fax: (610) 588 – 0245

## APPENDIX C:

### ENGINEER'S/SURVEYOR'S STATEMENT, OWNER'S STATEMENT AND APPROVAL/REVIEW BLOCK FORM

#### C.1. ENGINEER'S/SURVEYOR'S STATEMENT

I, \_\_\_\_\_, a registered professional Engineer/Surveyor of the Commonwealth of Pennsylvania, do hereby certify that the Plan, prepared from field survey, correctly represents the proposed lots as surveyed by me for the owners and that the requirements of the Subdivision and Land Development Ordinance of Washington Township have been fully complied with.

\_\_\_\_\_  
Engineer/Surveyor's Signature and Address

#### C.2. OWNER'S STATEMENT

We, the owners of this plat of land being duly sworn according to law, depose and say we are the sole owners of this property in peaceful possession of it and that there are no suits pending affecting the title of same, hereby dedicate to the Township of Washington for public use all the road rights-of-way, utility easements and rights-of-way of public improvements such as sewer lines and storm drainage facilities as shown on this Subdivision Plan. We further depose and say that we have complied with all requirements and provisions of the Washington Township Subdivision and Land Development Ordinance and shall save the Township harmless and indemnify the Township of Washington against any liability or loss resulting from the subdivision of this plat for whatever reason present or future.

\_\_\_\_\_  
(Owners Signature)

\_\_\_\_\_  
(Owners Signature)

SWORN AND SUBSCRIBED BEFORE THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 20\_\_\_\_\_.

\_\_\_\_\_  
NOTARY PUBLIC

**C. 3. APPROVAL/REVIEW BLOCK**

REVIEWED BY THE LEHIGH VALLEY PLANNING COMMISSION FOR LEHIGH AND NORTHAMPTON COUNTIES.

\_\_\_\_\_  
LVPC Staff Person Responsible for Review

\_\_\_\_\_  
Date

APPROVED BY THE WASHINGTON TOWNSHIP PLANNING COMMISSION

\_\_\_\_\_  
Chairman

\_\_\_\_\_  
Secretary

\_\_\_\_\_  
Date

APPROVED\* BY THE WASHINGTON TOWNSHIP ENGINEER

\_\_\_\_\_  
Date

APPROVED BY THE WASHINGTON TOWNSHIP BOARD OF SUPERVISORS

\_\_\_\_\_  
Chairman

\_\_\_\_\_  
Secretary

\_\_\_\_\_  
Date

**C.4. ENGINEER'S/SURVEYOR'S STATEMENT REGARDING REVISIONS, CORRECTIONS AND RESUBMISSION**

I, \_\_\_\_\_, a registered professional Engineer/Surveyor of the Commonwealth of Pennsylvania, do hereby certify that the Plan resubmission represents only the revisions and corrections required as a result of the Township review and action of the Subdivision and Land Development Ordinance of Washington Township. Any other changes deemed appropriate have been clearly identified by my letter of transmittal and this Plan map as plan revisions.

\_\_\_\_\_  
Engineer/Surveyor's Signature

\_\_\_\_\_  
Engineer/Surveyor's Address

\* For minor subdivisions the term "Approved" shall be replaced with "Closure reviewed by:"

## Appendix D

### Storm Water Drainage Runoff Calculation

#### 1. Rational Formula

The method used in calculating runoff shall be the Rational Formula  $Q=CIA$ , in which "Q" is the storm flow in cubic feet per second, "C" is a coefficient indicating the degree of imperviousness of the drainage area, "I" is the intensity of rainfall in inches per hours for the particular frequency of storm used, and "A" is the drainage area in acres.

#### 2. Values of Coefficient "C"

- A. All predevelopment calculations shall be in accordance with Ordinance 271 – Amended Martins Creek/Jacoby Creek Watershed Act 167 Stormwater Management Ordinance.
- B. Coefficient "C" used for the calculation of runoff shall be based on the anticipated ultimate use of the land.

#### 3. Values of Storm Intensity "I"

- A. The values of "I" in inches per hour, to be used are listed in Ordinance 271.
- B. Release rates from storage structures and from each subdivision or land development shall be based on the runoff from the two-year predevelopment storm event.
- C. In addition to the requirements found in Ordinance 271 (whichever is more stringent), storage structures and peak flows from subdivisions or land developments shall be designed such that the post-development five-year peak discharge will not exceed the predevelopment two-year peak discharge for the primary outlet structure and from the development.
- D. All storage structures shall be designed with emergency spillways. The minimum design capacity of the emergency spillway shall be the 25 year post-development peak discharge while maintaining a minimum 1.0 foot freeboard, and the 100 year post-development peak discharge rate while maintaining a minimum 0.5 foot freeboard.
- E. Storms with a frequency of twenty-five (25) years shall be used for drainage facilities other than storage structures in new developments and for minor streets, and fifty (50) year storms shall be used for Collector and Arterial highways. The time of flow shall be the time which it takes to reach the location of the drainage facility to be designed, and shall include overland flow time plus gutter flow time plus time of flow through pipes, culverts, or natural streams. Overland flow time shall be computed using a generally accepted chart or formula.
- F. Other measures to control storm flow such as downspouts into French drains, dry wells, and stone filter berms may be required by the Township.

#### 4. Suggested Runoff Velocities

Suggested runoff velocities are listed in Ordinance 271.

#### 5. Velocity of Flow in Open Channels

- A. The velocity of flow in open channels, and in closed drains not under pressure, shall be determined by Manning's velocity equation:

$$V = \frac{1.486}{n} \left( \frac{a}{p} \right)^{2/3} S^{1/2}$$

V = velocity in feet per second

n = coefficient of roughness

a = cross-section area of structure

p = perimeter of the wetted channel

s = slope in feet per foot

- B. The coefficient of roughness, "n", shall be as follows unless otherwise approved by the Township Engineer:

1. 0.015 for concrete pipe and similar paving
2. 0.025 for corrugated metal pipes and flumes.
3. 0.04 for earth ditches.

#### 6. Permissible Stream Velocities in Open Channels

| <u>Material</u>                          | <u>Allowable Velocity<br/>(Feet Per Second)</u> |
|------------------------------------------|-------------------------------------------------|
| Well established grass on good soil –    |                                                 |
| Short pliant bladed grass                | 5-6                                             |
| Bunch grass, soil exposed                | 2-4                                             |
| Stiff stemmed grass                      | 2-3                                             |
| Earth without vegetation –               |                                                 |
| Fine sand or silt                        | 1-2                                             |
| Ordinary firm loam                       | 2-3                                             |
| Stiff Clay                               | 3-5                                             |
| Clay and gravel                          | 4-5                                             |
| Coarse gravel                            | 4-5                                             |
| Soft Shale                               | 5-6                                             |
| Other –                                  |                                                 |
| Bituminous or cement stabilized channels | 6                                               |
| Paved Channels                           | 10-15                                           |



**7. Calculations**

The Grading and Storm Drainage Plan shall include calculations indicating velocities of flow, grades, sizes, and capacities of water carrying structures, debris or sediment basins, and retention and detention structures and sufficient design information to construct such facilities.

**8. Detention Basin Requirements**

- A. In addition to the requirements found in Ordinance 271, detention basin shall be designed such that the post-development 5 year peak discharge shall not exceed the predevelopment 2 year peak discharge; the post development 10 year peak discharge shall not exceed the predevelopment 5 year peak discharge; the post development 25 year post development peak discharge shall not exceed the predevelopment 10 year peak discharge, while maintaining a minimum freeboard of one foot.
- B. The emergency spillway shall be able to pass the 100 year post development peak discharge with 0.5 feet of freeboard measured to the top of the berm.
- C. The emergency spillway and the outfall of the detention basin shall be lined with mortared rip rap and shall meet requirements of PennDOT Publication 408. Other lining methods may be considered by the Township Engineer.
- D. The minimum top width of the detention basin berm shall be 10 feet, unless the Township Engineer determines that a greater width shall be required.
- E. Maximum inside and outside slopes of earthen detention basin shall be 5 horizontal to 1 vertical. An access slope of 8 horizontal to 1 vertical (maximum) may be required, based upon recommendation by the Township Engineer.
- F. Where no existing point of concentration exists, the outfall from a detention basin shall not discharge closer than 30 feet from the adjoining property line, unless permission is given, in writing, by said adjacent property owner.

Where discharge from the detention basin is to be spread into sheet flow, the allowable flow shall be determined by the predevelopment flow rate for a two year storm, across the length of the spreader.

- G. Antisteepest collars and a cutoff trench shall be required on basins having a berm height exceeding 5 feet.

Watertight antisteepest collars shall be installed around the discharge pipe at intervals not to exceed 24 feet or as approved by the Township Engineer. Collar shall extend a minimum of 2 feet beyond the outside of the pipe.

- H. Where, in the opinion of the Township Engineer, soil permeability is low, an area, just preceding the outlet structure, representing 25% of the basin floor area or 1,200 square

feet, whichever is smaller, shall be excavated to a minimum depth of 22", filled with minimum 18" depth of #3A (or larger) aggregate, covered with 4" depth topsoil and seeded or sodded.

- I. Fencing, surrounding the detention basin, shall be required if any of the following conditions are evident:
  - 1. The maximum design depth of water in the basin shall exceed 30".
  - 2. The basin is intended to retain water for periods exceeding 4 hours after rainfall subsides.
  - 3. The Washington Township Board of Supervisors determines that public safety would be endangered if the basin were not fenced.

Fencing shall be a minimum 4 feet high, chain link or other as approved by the Board of Supervisors, and shall have suitable gates to permit access by maintenance vehicles.

- J. Where a detention basin shall be constructed in view of an existing dwelling or an existing proposed street, and the basin depth exceeds 30", it shall be screened from view using evergreen screening or other methods approved by the Board of Supervisors.
- K. Basins not having direct access to a public street shall have a 25' wide, usable access easement to a public street.
- L. The design engineer shall verify that the operation of the detention facility will not significantly increase downstream peaking conditions per the adopted Act 167 Stormwater Management Plan.

## Appendix E

### Centralized Sewage Disposal System Procedures and Requirements

#### 1. General

All centralized sewage disposal system design, plans and construction shall:

- A. Be compatible with sewage feasibility studies and plans on the Township.
- B. Comply with all requirements of the Department of Environmental Protection and of the Township, whichever may be more stringent.
- C. Be approved by the appropriate agencies prior to Final Plan submission.

#### 2. Collection

All sanitary sewers and appurtenances shall be designed and constructed in accordance with regulations and requirements of the Department of Environment Protection (as set forth in the Sewerage Manual prepared by the Bureau of Water Quality Management), and/or the Township. In the case of relatively small Community Sewage Systems (as defined in Chapter 73 of the Department Regulations) the applicant may submit a written request for a variance from such requirements together with justification therefor. All sanitary sewers shall be designed and constructed to provide adequate capacity for the ultimate flow of the subject development plus such additional flow as may be projected to be generated by adjacent or nearby properties within a period of twenty (20) years.

The plans shall provide that all individual lateral connections be installed to the curb or right-of-way at the time of initial installation.

- A. Existing Facility. Plans for the extension of existing sanitary sewers shall be prepared by or on behalf of the utility and approved by it. Such plans shall be submitted to the Township Planning Commission and the Engineer. The Utility shall also secure such approvals, permits and certificates of convenience to furnish such services from the appropriate State agencies as required.
- B. Proposed Facility. Plans for proposed sanitary sewers shall be prepared by a registered professional engineer well versed and knowledgeable in the field. Such plans shall be submitted to the Township Planning Commission and the Engineer. The applicant shall also secure such approvals, permits and certificates as required.

#### 3. Community Sewage Systems

All systems utilizing subsurface disposal of sewage effluent (Community Sewage Systems as defined by Chapter 73 of the Department of Environmental Protection Regulations) shall be designed and constructed in accordance with requirements of the aforesaid Chapter 73 and the Township.

The registered Professional Engineer employed by the applicant shall certify that the existing or proposed facility has adequate capacity to satisfactorily treat the total projected sewage flow.

**4. Sewerage Services**

All systems classified as Sewerage Services (as defined by Chapter 73 of the Department of Environmental Protection Regulations) shall be designed and constructed in accordance with regulations and requirements set forth in the Sewerage Manual prepared by the Bureau of Water Quality Management.

- A. Existing Facility. The utility shall demonstrate the adequacy of treatment capacity to serve the proposed subdivision or land development.
- B. Proposed Facility. Plans for proposed treatment and discharge facilities shall be prepared by a registered Professional Engineer well versed and knowledgeable in the field. Such plans shall be submitted to the Township Planning Commission and the Engineer. The applicant shall also secure such approvals, permits and certificates as required.

**5. Township Official Plan**

The applicant shall demonstrate compliance with or cause to be prepared such revisions as may be requested for the Official Township Sewage Plan and Township Sewage Feasibility study.

## Appendix F

### Central Water System Development Procedures and Requirements

#### **1. Central Water Supply**

A Central Water Supply System shall meet the requirements stated herein prior to the approval of a preliminary subdivision or land development plan which proposes to use such Central Water Supply Systems.

##### **A. Existing Utility**

1. The Utility shall submit plans for extension of its present distribution system to the Washington Township Planning Commission and the Township Engineer. The Utility shall also secure such permits and certificates to furnish such services from the appropriate State Agencies where required by Ordinance.
2. The Utility shall demonstrate an adequacy of supply to provide a minimum Of 110 gallons per capita per day and/or 400 gallons per day for each residential dwelling unit to be serviced. Service to Industrial or Commercial establishments shall show adequacy of supply to meet said Industrial or Commercial needs as established by the American Water Works Association and/or Pennsylvania Department of Environmental Protection.

##### **B. Proposed Utility. Any proposed new utility shall be engineered by a registered professional engineer.**

The Applicant shall present evidence to the Township Planning Commission that the subdivision or land development is to be supplied by a certified public utility, property owner's association, or by a municipal corporation, authority or utility. A copy of a Certificate, Cooperation Agreement, or Commitment or Agreement to serve the area in question, shall be acceptable.

#### **2. Sanitary Survey**

A sanitary survey at the proposed well site shall be performed by the Pennsylvania Department of Environmental Protection.

#### **3. Well Construction Procedures and Requirements**

- ##### **A.**
- The inside diameter of the permanent casing and drill holes shall not be less than a nominal six inches and the casing shall consist of black steel pipe with a minimum wall thickness of 0.280 inch conforming to ASTM Specification A-53 having either screwed couplings or welded joints and equipped with a six inch forged steel drive shoe.

- B. The well shall be constructed by the driving of a temporary nominal ten inch diameter steel pipe to a solid rock formation and the under drilling of a nominal ten inch diameter hole for a minimum depth of twenty feet into hard rock below the bottom of the ten inch casing. The permanent six inch casing shall be concentrically set in the hole at this point and shall extend from the bottom of the hole to one foot above the final grade elevation. The annular space between the inner casing and the drilled hole and between the inner and outer casing shall be completely sealed with quick-setting cement grout. The grout shall be forced by pressure into the annular space, starting at the bottom and the operation shall be continuous until the grout flushes out at the ground surface with the outer casing being withdrawn as grouting proceeds. The quick-setting cement shall be a minimum of two inches thick surrounding the permanent casing.
- C. The quick-setting grout shall be allowed to set for a minimum period of thirty six hours and no work is to be performed on the well during this period. Extreme care must be taken in all subsequent drilling of the six inch well to avoid jarring and cracking the grout. The Contractor shall supply and install a threaded type cap for temporary sealing of the casing to prevent tampering with or the insertion of foreign objects into the well.
- D. The well must be commercially straight and true. Under no circumstances may the deviations from plumb be sufficient to interfere with the installation of proper operation of a shaft driven turbine type well pump.
- E. Utility Company water source shall be centrally located within a dedicated open space water protection zone of minimum 43,560 square feet in area. No buildings other than the Utility Company pumping station, Standtank, etc. shall be constructed thereon. No on-lot sewage disposal system shall be constructed within two hundred feet of such water source well.

#### 4. Dynamic Water Recovery Rate and Draw-Down Test

##### A. Test Required

- 1. Deep well water sources shall be tested to determine the Dynamic Recovery Rate draw-down. The time duration of said test shall encompass a continuous seventy two hour period minimum.
- 2. The proposed new Utility Company or Developer shall notify the Township Engineer and the Pennsylvania Department of Environmental Protection Agency of the date and time said test is scheduled to start and end by registered or certified mail. Such notification must be received at least seven days prior to starting the test.
- 3. The test results shall be recorded in triplicate on the appropriate forms provided by the Township Engineer and certified as to accuracy of test performance by a registered Professional Engineer licensed in the Commonwealth of Pennsylvania. Such test results shall bear the Engineer's seal and signature.

B. Test Procedure. The Dynamic Recovery Rate and draw-down test shall be conducted as follows:

1. a. Requirement for wells situated in water bearing slate. Four test hole wells drilled to the same depth as the source well and having a minimum diameter of two inches shall be placed in each of the four quadrants at a distance of one hundred feet from said well in order to determine the area of influence and specific capacity of the source well.

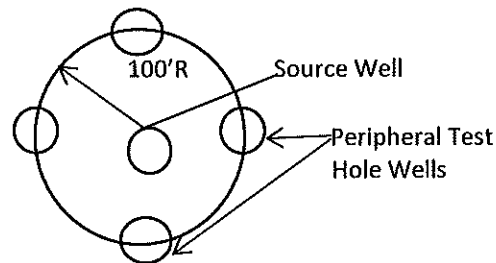


Figure F-1

- b. A submersible pump, capable of variable output, having sufficient capacity to exceed the Dynamic Recovery Rate of the water source shall be employed for said test. It is recommended that the capacity of the source pump be such that draw-down to within twenty feet of the source pump be achieved in a maximum of three hours.
  - c. A suitable calibrated water meter capable of measuring the water output in units of gallons or cubic feet shall be connected to the water source pump outlet.
  - d. The exact location of the water source pump with respect to the bottom of the well shall be recorded and maintained constant for the duration of the test.
  - e. The water source pump shall be operated at maximum capacity and output for the first six hours of the test or until the water level in the source well reaches a point twenty feet above the water source pump. The elapsed time and rate of pumping shall be recorded at sixty minute intervals on the provided log data form.
  - f. Draw-down of the source well in feet shall be recorded at sixty minute intervals as well as the water draw-down of any required peripheral test hole wells on the log data form.
2. Reduce the maximum rate of pumping by ten gallons per minute and continue pumping for the next two hours of test or until the water level reaches a point twenty feet above the water source pump. The elapsed time, rate of pumping

and draw-down of the source well and, where required, the peripheral test hole wells shall be recorded on the log data forms at sixty minute intervals.

3. Continue the above procedure using the two hour time periods or the criteria of water level above the source pump until the conditions are such that the Dynamic Recovery Rate of the water source equals the pumping rate (dynamic equilibrium). The Township Engineer may increase the increment of gallons per minute reduction where on-site review of the data warrants such action. Note, as the Dynamic Recovery Rate is approached, the increment of gallons per minute reduction will need to be reduced from ten gallons per minute to eight gallons per minute to five gallons per minute to zero gallons per minute. At this point, no deductible change in draw-down will occur. If any change in draw-down is detected, either plus or minus, dynamic equilibrium has not been achieved.
4. When said Dynamic Recovery Rate is reached, record elapsed time, pumping rate and draw-down on the log data form and continue pumping at this rate for the remainder of the seventy two hour test time or a minimum of twenty four hours, whichever is the greater time. Elapsed time, pumping rate and draw-down of the source well and where required, the peripheral test wells, shall be recorded hourly.
5. Measures of static water level recovery shall be made on the source well and peripheral test hole wells where required on an hourly basis and the data recorded for a minimum time period of twenty four hours upon cessation of the Dynamic Recovery Rate test.
6. Calculations of Specific Capacity and safe daily yield of the source well shall be submitted to the Township Engineer and appropriate State Agency by the registered Professional Engineer employed by the Utility Company or Developer for review and analysis.
7. Where peripheral test hole wells were required for determining specific capacity of the source well aquifer, such test hole wells shall be abandoned by filling with sand to the level twenty feet into bedrock and filling the remaining distance to the surface with quick-setting grout.

**5. Water Distribution System Requirements**

**A. Water Mains**

1. Water mains shall be a minimum of eight inches in diameter.
2. Gate valves shall be installed at all street intersections. Spacing between gate valves shall not exceed twelve hundred feet.



3. Acceptable Materials:

- a. Cement lined cast iron pipe.
- b. Cement lined ductile iron pipe
- c. Steel pipe
- d. Reinforced concrete pipe – (for mains greater or equal to twelve inches in diameter).
- e. Other suitable materials approved by the Township Engineer having inherent properties of non-corrosiveness, mechanical strength under pressure or vacuum and non-susceptibility to pitting or formation of tubercles.

Note: Wall thickness of all distribution pipe materials shall be capable of withstanding 250 pounds per square inch pressure test without rupture.

B. Customer Connections

1. All service connections from the main to the customer shall be minimum of three-quarters inch inside diameter (I.D.).
2. Customer service connections shall be one of the approved materials for mains. Heavy wall copper may be used for service connections where soils are not permeated or subject to acidic ground drainage waters.
3. A curb stop shall be furnished for each customer service connection.
4. Water supply pressure shall be a minimum 40 pounds per square inch at the customer's meter.
5. Cross connections – A cross connection is any physical connection, direct or indirect, which provides a potential opportunity for non-potable water to enter a conduit, pipe or receptacle containing potable water. Such cross connections are prohibited.

C. Leakage Test

1. Extension of existing utilities or proposed utilities distribution system shall meet the requirements stated herein. No installation shall be approved until the leakage is less than the number of gallons per hour as determined by the formula below:

$$L = \frac{ND \sqrt{P}}{3700}$$

Where:

L = Allowable leakage in gallons per hour.  
N = Number of joints in the length of pipe.  
D = Nominal diameter of the pipe in inches.  
P = The average test pressure during test.

2. Leakage tests are conducted by measuring, through a calibrated meter, the amount of water which enters the test section under normal working pressures for a period of at least two hours.

6. Water Service Area Requirement – Drilled Well Source

- A. The Dynamic Recovery Rate in gallons per minute establishes the criteria for adequacy of the water source based on 110 gallons per capita day or 400 gallons per dwelling unit per day.
- B. The minimum number of residential dwelling units that may be serviced by a utility within any service area shall be fifty.
- C. If the Dynamic Recovery Rate is insufficient to meet the adequacy of supply requirements for the service area under consideration, additional Drilled Well Water sources must be developed. Such additional sources shall be located in geologically separate aquifers. When the utility intends to employ more than one well in a single aquifer, a Dynamic Recovery Rate and draw-down test shall be connected on each well simultaneously to determine the adequacy of supply of such aquifer. In addition, such test shall encompass a continuous test time period of 120 hours minimum.

7. Distribution, Storage and Maintenance Requirements

- A. Utilities serving fifty or more, but less than one hundred customers, shall maintain a minimum distribution storage capability of one hundred percent of the twenty four hour demand and one complete set of standby replacement pumps.
- B. Utilities serving greater than one hundred but less than two hundred customers shall maintain a minimum distribution storage capacity of one hundred percent of the maximum twenty four hour demand, a complete set of standby replacement pumps and an auxiliary power generating source. A single fire hydrant connected by an 8" cast iron (or other suitable pipe material) main directly to the storage facilities shall also be

provided. Such hydrant shall meet local fire company requirements for size and hose connections.

- C. Utilities servicing greater than 200 customers shall provide elevated storage facilities of sufficient capacity to meet Insurance Services Office requirements for fire protection, fire hydrants and design requirements of the American Water Works Association. Said fire hydrants shall meet local fire company requirements for size and hose connections.
- D. All utilities are required to furnish the municipality with an accurate comprehensive map showing exact location of the utilities distribution system. Additions or changes within said system shall be duly noted thereon and the utility shall furnish updates of said comprehensive map within 30 days of the completion of such additions or changes.
- E. The Insurance Service Office requirements for low or medium value residential and commercial areas are indicated in the table below. Subject to changes by the Insurance Services Office.

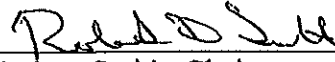
| Zone        | Rated<br>Capacity<br>GPM | Time<br>Duration<br>(Hours) | Residual<br>Pressure At Rated<br>Capacity |
|-------------|--------------------------|-----------------------------|-------------------------------------------|
| Residential | 500                      | 4                           | 20 PSI                                    |
| Commercial  | 1000                     | 6                           | 20 PSI                                    |

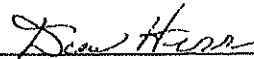
**8. Nonmunicipal Owned Public Utilities**

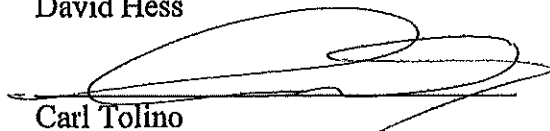
All utilities furnishing the public with water service shall be organized in such fashion as to fall within the jurisdiction of the Pennsylvania Public Utilities Commission.

ORDAINED AND ENACTED by the Supervisors of the Township of Washington, County of Northampton and Commonwealth of Pennsylvania, into an Ordinance this 9<sup>th</sup> day of SEPTEMBER, 2020.


WASHINGTON TOWNSHIP  
BOARD OF SUPERVISORS

By:   
Robert Smith, Chairman

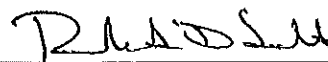
By:   
David Hess

By:   
Carl Tolino


ATTEST:

By:   
Gail Putvinski, Secretary

Approved and certified this 9<sup>th</sup> day of SEPTEMBER, 2020.

  
Robert Smith, Chairman

ATTEST:

By:   
Gail Putvinski, Secretary