

# **LOWER SWATARA TOWNSHIP CODES DEPARTMENT**

**Donald A. Fure, Building Code Official**  
**Kaylee Justice, Planning & Zoning**  
**Bruce Henry, Construction Code Official**  
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**1499 Spring Garden Drive, Middletown, PA 17057**  
**Phone: (717) 939-9377**  
**Fax: (717) 939-5682**  
**Web: [lowerswatara.org](http://lowerswatara.org)**

**Permit Applicant:**

**RE: Commercial Construction**

**Lower Swatara Township Board of Commissioners adopted the Pennsylvania Uniform Construction Code, Act 45 of 1999 by Ordinance No. 474 on May 19, 2004. Lower Swatara Township will perform all plan reviews and inspections except for electric, which is to be done by an approved township third party. The township may elect to have the plan review and/or the inspections done by a third party agency for the sprinkler system. All third party reviews and inspection fees shall be paid directly to the approved third party agency.**

**For new construction/large alterations, have the two sets of electric plans separated from the remainder of the plans. At application, inform the township which third party you choose to perform plan review, and provide contact information for electrical questions and for whom they should bill their services to. The township will provide the plans to the third party.**

**A plan review checklist found on the townships website should be used in the preparation of the plans. See PA UCC 403.43(k) for deferred submittals.**

**The following information must be submitted to the Codes Department for a complete application:**

- **Permit application**
- **Permit Checklist**
- **Plan review checklist**
- **Jobs exceeding \$25,000 will require an application and plan review fee to be paid at application. Contact the codes department for the fee. The township's fee schedule can be found on our website.**

**Upon receipt of all the required construction documents, the package will be reviewed for code compliance. Any questions please contact the Codes Department at 717-939-9377.**

**Donald A. Fure**  
**Building Code Official**

# **LOWER SWATARA TOWNSHIP**

## **COMMERCIAL CONSTRUCTION FORMS PACKET**

- 1. Permit Application**
- 2. Permit Checklist**
- 3. Construction Documents Guideline  
Checklist**

LOWER SWATARA TOWNSHIP  
1499 SPRING GARDEN DRIVE  
MIDDLETOWN, PENNSYLVANIA 17057  
PH. (717) 939-9377/FAX (717) 939-5682

## PERMIT APPLICATION

**IMPORTANT – APPLICANT MUST COMPLETE ALL ITEMS IN SECTIONS: I, II, III, IV, and V.**

**I.  
LOCATION  
OF  
BUILDING**

ADDRESS: \_\_\_\_\_ Parcel No. \_\_\_\_\_

Subdivision Name: \_\_\_\_\_ Lot No. \_\_\_\_\_

**Type of  
Permit:**

☐ Zoning      ☐ Building      ☐ Demolition      ☐ Use & Occ.      ☐ Stormwater

**II. TYPE AND COST OF BUILDING – All applicants complete Parts A-D**

**A. TYPE OF IMPROVEMENT**

- |  |  |
|--|--|
| <input type="checkbox"/> New Building              | <input type="checkbox"/> Deck                        |
| <input type="checkbox"/> Addition                  | <input type="checkbox"/> Fence                       |
| <input type="checkbox"/> Alteration                | <input type="checkbox"/> Shed/Accessory Structure    |
| <input type="checkbox"/> Demolition                | <input type="checkbox"/> Pool                        |
| <input type="checkbox"/> Earth Disturbance/Grading | <input type="checkbox"/> Modifying Stormwater Runoff |

Proposed Work (Describe in Detail):

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

Square footage \_\_\_\_\_ Square footage added by permit \_\_\_\_\_  
Number of stories \_\_\_\_\_

**C. USE**

☐ Residential -or- ☐ Nonresidential

Are you changing Use?

☐ YES      ☐ NO

Existing Use: \_\_\_\_\_

Proposed Use: \_\_\_\_\_

**B. COST (including labor & material)**

Building	(omit cents)
	\$ _____
Plumbing	\$ _____
Electrical	\$ _____
Sprinkler System	\$ _____
Mechanical	\$ _____

**TOTAL COST OF IMPROVEMENT**

\$ \_\_\_\_\_

**D.**

Building Sprinkled: Yes \_\_\_\_\_ No \_\_\_\_\_

Water Supply: Public \_\_\_\_\_ Private \_\_\_\_\_

Sewage Disposal: Public \_\_\_\_\_ Private \_\_\_\_\_

Structure in flood plain: Yes \_\_\_\_\_ No \_\_\_\_\_

New buildings and additions require a plot plan drawn to scale showing proposed work, existing structures on site, distances from lot lines and established grades.

Two (2) sets of plans and specifications required.

A description of work accompanied by plans of proposed work required.

Additional information may be required upon plan review.

**III. ZONING REQUIREMENTS (as applicable)**

Zoning District	_____
Front Yard Setback	_____
Left Side Yard Setback	_____
Right Side Yard Setback	_____
Rear Yard Setback	_____
Height of Structure	_____
Finished Floor Elevation	_____
Number of Stories	_____

Corner Lot (Y/N)	_____
No. of Off Street Parking Spaces	_____
Sq. Ft. of Structure (Footprint)	_____
Sq. Ft. of Lot	_____
Proposed Impervious Area*	_____
Total Impervious Area on Lot	_____
Percentage of Lot Impervious	_____

\*Stormwater controls and report are required for any project proposing 1,000 sq ft or more of impervious area. See Section IV.

**IV. STORMWATER REQUIREMENTS****A. INDICATE AMOUNT OF PROPOSED IMPERVIOUS AREA (SQUARE FEET)**

- ☐ 0 – 999 sq ft                      = No Stormwater Report or Calculations are Required  
☐ 1,000 - 5,000 sq ft                = Provide Volume Controls and SWM Site Plan/Report  
☐ > 5,000 sq ft                        = Provide Rate Controls, Volume Controls, SWM Site Plan/Report and Record Drawing

Note: If any Best Management Practices (BMPs) are proposed to provide stormwater volume/rate controls, the applicant must sign an Operation and Maintenance Agreement with the Township to ensure long-term maintenance of the facility.

**V. IDENTIFICATION – To be completed by all applicants**

	Name	Mailing Address	Telephone
Owner Or Lessee			
General Contractor			
Permit Applicant			
		Contact Person's Email:	
Design Professional			

**Applicant's Certification:** As the owner or the authorized agent of the project for which this application is filed, I certify that:

- The description of use, estimated construction cost and all other information provided as part of this application for a building permit is correct.
- The building or structure described in this application will not be occupied until all known code violations are corrected and a Certificate of Occupancy has been received from Lower Swatara Township.
- This project will be constructed in accordance with the approved drawings and specifications (including any required non-design changes) and the Uniform Construction Code standards as specified in 34 PA Code Chapters 401 – 405.
- Any changes to the approved documents will be filed with the Township Code Department.
- If the licensed architect or engineer in responsible charge of this construction should change, written notice of the change will be provided to the Township Building Code Official.
- No error or omission in either the drawings and specifications or application, whether approved or not, shall permit or relieve me from constructing the work in any manner other than provided for in 34 PA Code Chapters 401 – 405.
- If signed by someone other than the construction owner, this work has been authorized by the owner of record, and I have been authorized by the owner to complete this application on his behalf. I will be acting on behalf of the owner as:

\_\_\_\_\_ DESIGN PROFESSIONAL    \_\_\_\_\_ CONTRACTOR    \_\_\_\_\_ AGENT

**APPLICANT MUST COMPLETE ONE OF THE SECTIONS BELOW:**

Applicant, if other than owner:

Owner:

\_\_\_\_\_  
Name (typed or printed)

\_\_\_\_\_  
Name (typed or printed)

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

**VI. ZONING OFFICER APPROVAL**

District _____			Use _____	
	<b>Required</b>	<b>Shown</b>		
Front Yard Setback	_____	_____	Conforming _____	
Left Side Yard Setback	_____	_____		Fee \$ _____
Right Side Yard Setback	_____	_____	Non-Conforming _____	
Rear Yard Setback	_____	_____	Easements _____	
Building Height	_____	_____		
Maximum Impervious	_____	_____		
NOTES: _____			_____	_____
			Zoning Officer	Date

**VII. CODE OFFICIAL APPROVAL**

Application Fee	App Fee \$ _____		
Building Permit No. _____	Permit Fee \$ _____	Construction Type	_____
Plumbing Permit No. _____	Permit Fee \$ _____	Use Group	_____
Electrical Permit No. _____	Permit Fee \$ _____	Occupancy Load	_____
Demolition Permit No. _____	Permit Fee \$ _____		
DCED	Fee \$ _____		
	Total Codes Fee \$ _____		
	Zoning Fee (from Section V) \$ _____		
	<b>TOTAL FEE \$ _____</b>		
NOTES: _____		_____	_____
		Code Official	Date

**VIII. STORMWATER DEPARTMENT APPROVAL**

Application Fee	App Fee \$ _____	SWM Site Plan	_____
O&M Agreement Recording Fee	Rec Fee \$ _____	Volume Controls	_____
		Rate Controls	_____
	<b>TOTAL FEE \$ _____</b>		
NOTES: _____		_____	_____
		Stormwater Official	Date

# Permit Checklist

This form **MUST BE COMPLETED** and turned in with your application.

The following permits are required to be obtained prior to the release of a building permit. A building permit is considered incomplete until the applicable permits below are obtained.

Provided	Needed	Not applicable	Determined by L.S.T	Permit Requirements
				Sewage facilities planning module or exemption letter
				Erosion & Sediment approvals
				NPDES approvals
				Zoning approvals
				L.S.T street cut permit
				L.S.T. sewer authority permit or on-lot septic permit
				FAA Approval if in airport zone, Penn Dot AV 57 form
				Proof of Land Development/Subdivision recording
				Penn Dot HOP Permit or notice of acknowledgment that one is required

\_\_\_ Residential Application Fee of \$50; Commercial Application Fee of \$75 Jobs exceeding \$25,000, a plan review fee is required, contact the codes department for fees.

\_\_\_ 2 Sets of plans residential plans, 1 set of paper and 1 digital copy for commercial. 2 sets of paper copy of commercial electrical plans required. Minimum size: Residential – 11”x17”; Commercial – 24”x36”

\_\_\_ Workers Compensation with Lower Swatara Township as the certificate holder required. Notarized waiver form required if the contractor is exempt from the Workers Compensation Law. Home owners performing their own work or acting as the General Contractor are exempt.

\_\_\_ Commercial Electrical Review is done by a township approved third party. Whoever reviews the plans shall be contacted for inspections. Electrical pages should be separated from the remainder of plans. At permit application, provide which electrical third party you want to review the plans and provide contact information for whom they should bill for their services and contact for questions.

**APPROVED THIRD PARTY ELECTRICAL INSPECTION AGENCIES  
AGREEMENTS WITH LOWER SWATARA TOWNSHIP**

Middle Department Inspection Agency, Inc. (MDIA)  
3901 Hartzdale Drive, Suite 112  
Camp Hill, PA. 17011  
Contact: Ron Yoffee: 717-761-5340 Fax: 717-761-5590

Commonwealth Code Inspection Service, Inc. (CCIS)  
176 Doe Run Road  
Manheim, PA. 17545  
Office 717-664-2347  
Contacts: Jeremy Blanck – inspector George Syder-Plans

Approved Code Services (ACS)  
5060 Ritter Road, Suite A2  
Mechanicsburg, PA. 17055  
Contact: Phone: 717-506-0464 Fax: 717-918-5798

American Inspection Agency (AIA)  
342 Miller Road  
Sinking Springs, PA. 19608  
Contact: Phone: 1-800-806-6610 Fax: 610-678-4359

LOWER SWATARA TOWNSHIP  
Code Department  
1499 Spring Garden Drive  
Middletown, PA. 17057  
(717) 939-9377

Uniform Construction Code (UCC)  
**CONSTRUCTION DOCUMENTS**  
**PLAN REVIEW SUBMITTAL**

**PROJECT INFORMATION:**

Project Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
\_\_\_\_\_  
Contact Person: \_\_\_\_\_ Phone Number: \_\_\_\_\_  
Email Address: \_\_\_\_\_ Fax Number: \_\_\_\_\_

This list of construction document requirements should be used in the preparation of the plans and specifications for new buildings/structures, additions and renovation projects located within Lower Swatara Township. Provide the following as applicable to help facilitate the permit review and approval process. For alterations, show compliance with either Chapter 34 of the International Building Code or the International Existing Building Code.

Deferred drawings: Provide list of any deferred submittal. Deferred drawings per P.A UCC 403.43 (k).

Code Analysis: The following must be provided to perform a plan review.

N/A ___ Yes ___	Year Code Design	N/A ___ Yes ___	Construction Type
N/A ___ Yes ___	Square footage of work area	N/A ___ Yes ___	Sprinkle Design
N/A ___ Yes ___	Occupancy Classification	N/A ___ Yes ___	Occupant load of work area
N/A ___ Yes ___	Allowable Height and Area		

**SITE PLANS:** (Land Development plan may be submitted with all the required information. If not included on the land development plan, a detailed plan of the accessible route required)

N/A ___ Yes ___	Street cut permit required for work to take place on Township roadways.
N/A ___ Yes ___	Site plans shall be prepared to scale (not less than 1"= 100'), with legend, north arrow, and site location map.
N/A ___ Yes ___	Correct street address, zoning district, adjacent land uses and zoning districts.
	Identify all property lines and rights-of-way, with distance from property lines and adjacent buildings.
N/A ___ Yes ___	Show all parking spaces, widths and length.
N/A ___ Yes ___	Accessible route showing curb cuts, ramps, walks, widths, lengths, running and cross slopes from parking to building entrance.
N/A ___ Yes ___	All easement, flood zones, required buffers, screening landscaping, existing and proposed driveway entrances.
N/A ___ Yes ___	Existing and proposed utilities (gas, water, sewer, etc.).
N/A ___ Yes ___	Existing and proposed finish grades and elevations required for construction.

**ARCHITECTURAL PLANS:**



N/A ___ Yes ___	Architectural floor plans of each floor. All pages shall be minimum 24" x 36" in size, maximum 36"x 42", drawn to a scale of not less than 1/8"= 1'.
N/A ___ Yes ___	Details, sections, dimensions and elevations of proposed construction.
N/A ___ Yes ___	Allowable building area and area increase calculations.
N/A ___ Yes ___	Actual building area with the square footage of each floor and the building height.
N/A ___ Yes ___	Special detailed requirements based on use and occupancy including: covered mall buildings, high-rise buildings, atriums, and other special use and occupancy spaces or buildings.
N/A ___ Yes ___	Identify the names and uses of each room.
N/A ___ Yes ___	Occupant load for each location and include computations.
N/A ___ Yes ___	Capacity of egress components including the egress width (inch/occupant) for the stairways and other egress components.
N/A ___ Yes ___	General means of egress, travel distance, spacing of exits and the occupant load of the exit served.
N/A ___ Yes ___	Identify all fire resistant walls showing type of assembly and fire rating. Provide UL numbers and detail. Include all smoke and draft barriers.
N/A ___ Yes ___	All penetrations of fire rated construction should be per manufactures specs. Show opening protection and damper ratings. Specifications may be required to be provided.
N/A ___ Yes ___	Exterior walls opening protection, vertical fire spread protection and parapets.
N/A ___ Yes ___	Interior finishes including smoke development, flame spread, decorations and trim.
N/A ___ Yes ___	Door schedule(s), including size, type, rating (if required) and hardware.
N/A ___ Yes ___	Glazing schedules, including sloped glazing and skylights, and safety glazing.

## BUILDING DESIGN DATA SUMMARY

**DESIGN:** (Check all that apply)

☐ Single Use Occupancy or Mixed Use Occupancy (non-separated uses) – Design Option 1  
☐ Mixed Use Occupancy (separated uses) – Design Option 2  
☐ Unlimited Area Building      ☐ Fire Alarm & Detection System  
☐ Mezzanine(s)      ☐ Alternative Automatic Fire-extinguishing System  
☐ Automatic Sprinkler System per NFPA 13      ☐ Standpipe System per NFPA 14

**Total Frontage (F)** - Building perimeter which fronts on a public way or open space having 20 feet open minimum width (feet).

**Perimeter (P)** - Perimeter of entire building (feet)

**Minimum Width (W)**- Width of public way or open space (feet). W must be at least 20 feet and the quantity divided by 30 shall not exceed 1.0.

**Allowable Building Area (A<sub>i</sub>)** - Tabular area per floor in accordance with Table 503 (square feet)

**Frontage Increase (I<sub>f</sub>)** - Area increase due to frontage.  $I_f = 100(F/P - 0.25)W/30$

**Automatic Sprinklers Increase (I<sub>s</sub>)** - Area increase due to sprinkler protection (200% for multistory buildings and 300% for single-story buildings)

**Adjusted Building Area**

**Increase (A<sub>a</sub>)** - Areas limited by Table 503 shall be permitted to be increased due to frontage (I<sub>f</sub>) and automatic sprinkler system protection (I<sub>s</sub>) in accordance with the

following equation:  $A_a = A_i + (A_i I_f / 100) + (A_i I_s / 100)$

**Design Option 1 – Single Use Occupancy or Mixed Use Occupancy (508.3 non-separated uses):**

Use/Occupancy Classification (Section 302) \_\_\_\_\_  
 Type of Construction (Section 602) \_\_\_\_\_  
 Allowable Building Area (per floor, Table 503) \_\_\_\_\_  
 Adjusted Building Area Increase (sq. ft.) \_\_\_\_\_  
 Actual Building Area (sq. ft.) \_\_\_\_\_  
 Actual Building height \_\_\_\_\_ feet \_\_\_\_\_ stories  
 Adjusted Building Height \_\_\_\_\_ feet \_\_\_\_\_ stories

**Design Option 2 – Mixed Use Occupancy (separated uses):** In each story, the building area shall be such that the sum of the ratios of the floor area of each use shall not exceed one. (Section 508.4.2)

<u>Story</u>	<u>Use</u>	<u>Actual Floor Area (sq. ft.)</u>	<u>Story</u>	<u>Use</u>	<u>Actual Floor Area (sq. ft.)</u>
1 <sup>st</sup>	_____	_____	3 <sup>rd</sup>	_____	_____
	_____	_____		_____	_____
	_____	_____		_____	_____
2 <sup>nd</sup>	_____	_____	4 <sup>th</sup>	_____	_____
	_____	_____		_____	_____
	_____	_____		_____	_____

#### **STRUCTURAL PLANS:**

N/A \_\_\_ Yes \_\_\_ List type of special inspections and testing requirements.  
 N/A \_\_\_ Yes \_\_\_ Structural design calculations. Structural plans shall be signed, sealed and dated by a Pennsylvania registered Architect and/or Engineer responsible for the design.  
 N/A \_\_\_ Yes \_\_\_ Soils and foundation information including soil investigations/reports and soil.  
 N/A \_\_\_ Yes \_\_\_ Uniformly distributed floor live design loads for the floor area use, any live load reduction, roof live loads, snow loads, wind design loads and all concentrated loads.  
 N/A \_\_\_ Yes \_\_\_ Flood design loads, if applicable, including flood hazard area zone and elevation of the structure.  
 N/A \_\_\_ Yes \_\_\_ Footing and foundation detail, dimensions. Show depth of footings, foundation water/damp proofing, and reinforcing steel showing dimensions of bar, spacing and lapping.  
 N/A \_\_\_ Yes \_\_\_ Structural materials for concrete including plain and reinforced concrete design construction standard specified, minimum concrete strength, any hot and cold weather curing procedure, seismic design and slab provisions.  
 N/A \_\_\_ Yes \_\_\_ Show beams, joists, girders, rafters/truss layout and fastening/connection detail. For steel show structural steel sizes, steel framing gauges, sizes and connections.  
 For wood show species of wood, sizes and design strength.

**ACCESSIBILITY PLANS:** Buildings and facilities shall be designed and constructed to be accessible in accordance with the IBC 2015, Chapter 11 & Appendix E and ICC A117.1 – 2009 ANSI Standards. Please note only the states Accessibility Advisory Board can grant a variance for relief from the code relating to accessibility.

N/A \_\_\_ Yes \_\_\_ Plumbing elements and facilities required to be accessible by the scoping provisions, including drinking fountains and water coolers, toilet and bathing rooms, water closets and toilet compartments, urinals, lavatories and sinks, bathtubs, show compartments, grab bars, seats, and laundry equipment.

- N/A \_\_\_ Yes \_\_\_ Built-in furnishings and equipment required to be accessible by the scoping provisions, including seating at tables, counters, and work surfaces, benches, checkout and service counters and storage facilities
- N/A \_\_\_ Yes \_\_\_ Communication elements and features required to be accessible by the scoping provisions, including alarms, signs, telephones, detectable warnings, assistive listening systems, and automatic teller machines (ATM's) and fare machines.
- N/A \_\_\_ Yes \_\_\_ Clearances at doorways and maneuvering clearances at furnishings or fixtures.

#### **FIRE PROTECTION PLANS:**

- N/A \_\_\_ Yes \_\_\_ Automatic sprinkler system(s) with hydraulic calculations and catalog cuts for NFPA 13 system components, including water flow test, hose connections and sprinkler monitoring and alarms.
- N/A \_\_\_ Yes \_\_\_ Provide commodity class and height of rack storage.
- N/A \_\_\_ Yes \_\_\_ Alternative automatic fire-extinguishing system(s) details, including the installation, wet-chemical systems, dry-chemical systems, foam systems, carbon dioxide systems, halon systems, clean-agent systems, and commercial cooking systems, if applicable.
- N/A \_\_\_ Yes \_\_\_ Class I wet standpipe system(s) details, including the installation standards, building height, stages greater than 1,000 sq. ft., hose connections and locations, cabinets, dry standpipes, and valve supervision.
- N/A \_\_\_ Yes \_\_\_ Show sprinkle head layout including room identifications, dimensions, walls, ceilings and soffits or any other obstructions.
- N/A \_\_\_ Yes \_\_\_ Portable fire extinguisher(s) locations.
- N/A \_\_\_ Yes \_\_\_ Fire alarm and detection system(s) construction details to include, but not be limited to: a floor plan which indicates the use of all rooms; locations of alarm initiating and notification appliances; alarm control and trouble signaling equipment; annunciation; power connection; battery calculations; conductor type and sizes; voltage drop calculations; manufacturers, model numbers and listing information for equipment, devices and materials; details of ceiling height and construction; and the interface of fire safety control functions.
- N/A \_\_\_ Yes \_\_\_ Smoke control system(s) design requirements and submit analysis supporting the type(s) of smoke control systems be installed. Show smoke barriers, pressurization method, airflow method, exhaust method, equipment/power, detection and control, smokeproof enclosures, if required.
- N/A \_\_\_ Yes \_\_\_ Knox box order forms available upon request.

#### **PLUMBING PLANS:**

- N/A \_\_\_ Yes \_\_\_ Construction documents with riser diagrams, site plan, and water calculations and specifications.
- N/A \_\_\_ Yes \_\_\_ Change of use, additions and new buildings will require a sewer permit from Lower Swatara Township Sewer Authority. Required to be obtained prior to building permit.
- N/A \_\_\_ Yes \_\_\_ Fixtures and the number provided for male and female occupants based on the occupant load. If mixed use occupancy, show the number of fixtures provided for each use.
- N/A \_\_\_ Yes \_\_\_ Toilet/bathing room layouts. Drinking fountain locations.
- N/A \_\_\_ Yes \_\_\_ Water supply and distribution for the hot water system, including hot water requirements, tempered water for accessible hand washing facilities, return circulation, and thermal expansion control.
- N/A \_\_\_ Yes \_\_\_ Water supply and distribution design, including burial depth, water service separation, system design, maximum flow, pressure boosters, and water hammer.

- N/A \_\_\_ Yes \_\_\_ Water supply and distribution valves, including full open, shutoff, access, and backflow prevention.
- N/A \_\_\_ Yes \_\_\_ Procedure/specifications for disinfection of potable system.
- N/A \_\_\_ Yes \_\_\_ Drainage system construction details for fixture traps, trap seals, drain and waste, stacks, horizontal branches, building drain and sanitary sewer lateral, cleanouts, indirect waste, and special waste, including the drainage piping in food service areas, venting of fixtures, vent stacks and vent installation.
- N/A \_\_\_ Yes \_\_\_ Storm drainage construction details, including area rainfall rate, showing square footage of roofing, the design for cleanouts, drain sizes and area served, secondary roof drains and scupper locations.
- N/A \_\_\_ Yes \_\_\_ Piping material, support and installation, including the hanger/support schedule, corrosion protection, stress and strain, annular space, footing and foundation protection, fastener penetration, waterproofing of openings, flood proofing, penetration protection, support intervals, base of stacks, anchorage, bracing and seismic support, if applicable.
- N/A \_\_\_ Yes \_\_\_ Show the construction details for interceptors, including grease traps and interceptors, venting, access, and food waste grinders and supporting information for sizing.
- N/A \_\_\_ Yes \_\_\_ Compliance with the Energy Conservation Code should be shown for water heating.

#### **MECHANICAL PLANS:**

- N/A \_\_\_ Yes \_\_\_ Submit construction documents, equipment installation and locations, hazardous location installation, outdoor installation, piping support and condensate disposal.
- N/A \_\_\_ Yes \_\_\_ Show the mechanical ventilation outdoor air requirements per room occupancy classification, including the square foot area, occupant load, required outdoor air (cfm/person), and actual outdoor air (cfm) provided.
- N/A \_\_\_ Yes \_\_\_ Provide duct sizes, layout, plenums, insulation R values, damper locations, smoke detection and location, and fire damper locations and ratings.
- N/A \_\_\_ Yes \_\_\_ Show the contaminant exhaust systems, smoke control systems, and roof vents.  
Connection/direct-vent, combustion air ducts, including opening obstructions, location and protection.
- N/A \_\_\_ Yes \_\_\_ Show the combustion air for gas-fired appliances, including inside air, outdoor air, combined use of inside and outdoor air, and any engineered combustion air supply, direct-vent, mechanical combustion air supply, louvers and grills and combustion air ducts.
- N/A \_\_\_ Yes \_\_\_ Show construction details for chimneys and vents, showing termination and required clearances from intakes and openings.
- N/A \_\_\_ Yes \_\_\_ Details for any boilers, water heaters and pressure vessels or appliance used.
- N/A \_\_\_ Yes \_\_\_ Details for fuel-gas piping materials, installation, sizing, gas shutoff valves, and any other gas piping systems, including liquefied petroleum or compressed natural gas motor vehicle fuel dispensing stations, or supplemental and standby gas supply.
- N/A \_\_\_ Yes \_\_\_ Details for fuel oil piping and storage including, storage system, materials, joints and connections, fuel oil system installation, oil gauging, and fuel oil valves.
- N/A \_\_\_ Yes \_\_\_ Compliance with the Energy Conservation Code to be shown or provide alternative method documentation.

**ELECTRICAL PLANS:** Provide the following to assist an approved Township third party electrical agency.  
Provide plans and detail as necessary per the third party's request. Whichever third party reviews the plans should also perform the site inspections.

- N/A \_\_\_ Yes \_\_\_ Panel schedules with circuit and feeder loading, over current protection, and NEC load summaries for all new and/or affected panels and services (loading has to be evaluated by

	highest phase): include fault current data, short circuit ratings and fault current protection coordination.
N/A ___ Yes ___	Single line riser diagram showing all new and/or affected services, feeders, wire sizes and insulation types, and conduit sizes and types.
N/A ___ Yes ___	Number of services and their physical locations, clearly indicate mains and characteristics.
N/A ___ Yes ___	Grounding electrode conductor size with new and/or affected services and transformers; where necessary provide details or notes on methods.
N/A ___ Yes ___	Physical locations of all new and/or affected panels and switchgear (indicate front).
N/A ___ Yes ___	Receptacle plans and lighting plans with circuitry.
N/A ___ Yes ___	Electrical plans for each affected floor, including the roof.
N/A ___ Yes ___	Wiring method(s), conduit sizes and types, termination temperature (60, 75, 90) requirements, conductor sizes and insulation types.
N/A ___ Yes ___	Design and/or operation for any of the following applicable life safety systems; emergency generators, smoke evacuation, shaft pressurization and relief, smoke detection, egress and emergency lighting, and fire alarms.
N/A ___ Yes ___	Special needs such as classified (hazardous), corrosive and patient care are treated. Provide detailed plan of classified areas, the classifications and how complied with (i.e. hangers, waste treatment and collection, flammable dusts, gasses or liquids, spray booths, vehicle servicing and parking, etc.).
N/A ___ Yes ___	HVAC nameplate data, including MCA and MOC. List all other appliance and/or equipment (other than those which will be connected to a general use receptacle) with nameplate data (i.e., voltage, phasing, HP, KVA, FLA, RLA, etc.).
N/A ___ Yes ___	Motor horse power ratings, if not supplied elsewhere.
N/A ___ Yes ___	Penetrations of fire-rated construction must be per manufacturer's details. The details shall meet or exceed ratings of construction being penetrated. Penetration details shall be exactly as tested by an approved testing laboratory or agency and shall include their system numbers. New penetrations of existing fire-rated walls and assemblies shall be shown with appropriate designs.
N/A ___ Yes ___	Compliance with the Energy Conservation Code or alternative method required.