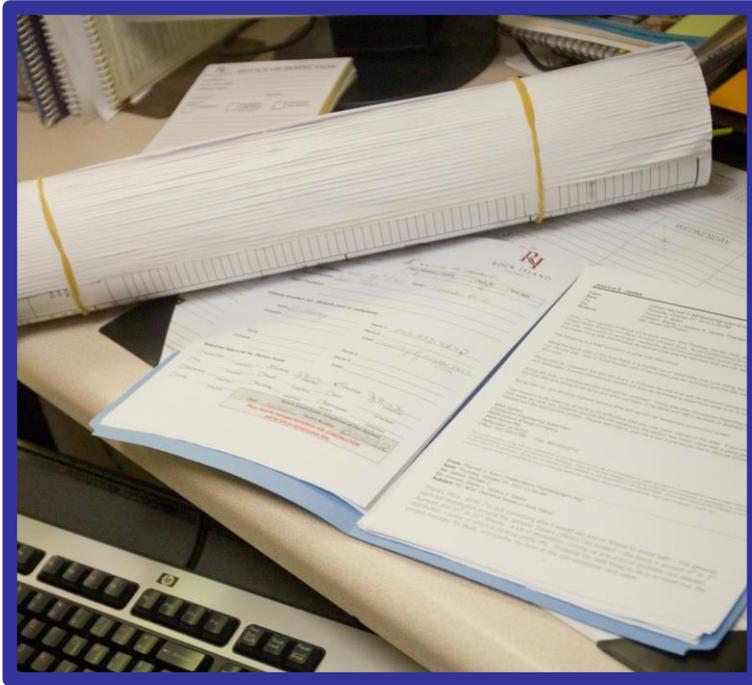


PLAN REVIEW SUBMITTAL GUIDE



Plans, specifications and other construction documentation for the initial plan review should be as complete as possible at the time of submittal. Use this convenient guide as a checklist when submitting your documents to help expedite the review process and avoid delays and re-submittals.

Commercial, Industrial, Single & Multifamily New & Existing Construction

**Building • Plumbing • Mechanical • Electrical
Fire Suppression and Detection Systems
High Hazard • Special Systems & Installations**

**2015 International Codes • 2017 National Electric Code
IL Accessibility Code • City Ordinance and Local Amendments**

BUILDING PLAN REVIEW

In order to process your review in a timely manner, the following guide should be used as a checklist to ensure your submittal is as complete as possible for the first review. If additional information is required, it will be requested during the review process.

**Cover Sheet— City Standard Cover Sheet must be completed, signed and submitted.
Drawing Submittals— (2) hard copies are required.**

Submit Complete Building Plans and Specifications Showing Use of All Areas, Equipment Layout, Aisles and Building Components.

1. Indicate occupant load for all areas; include exiting system plan.
2. Submit complete door schedule with catalog cuts for all doors, hardware sets and locksets.
3. Submit all appropriate wall, floor foundation sections and details.
4. List all rated assemblies, diagram assemblies and design numbers.
5. Submit window and glazing schedule, interior finish schedule and flame spread ratings.
6. List all building design loads, if applicable.
7. Submit shop drawings for steel supported systems (submitted prior to start of work).
8. Indicate shop drawings for all fire protection systems (submitted prior to start of work).
9. Submit structural calculations
10. Submit details for all special occupancy requirements (atriums, floor openings, high rise, covered malls, hazardous materials, etc.).
11. Submit details for all special structures (skylights, roof panels, awnings, etc.).
12. Indicate sequence of operation for all special systems (smoke control, elevator recall, etc.).
13. Submit details showing all state and local accessibility requirements and catalog cuts for fixtures.
14. Submit signed, sealed and dated construction documents per the state requirements.

Soil Report

1. Show requirements for footings and support loads.
2. Submit footings and foundation requirements and recommendations.
3. Submit engineer's requirements for appropriate footings and walls to support loads.

Site Plan

1. Show setbacks, elevations, drainage, parking, outside lighting, lot grading and sanitary sewer.
2. Show locations of fire hydrants and bench mark information.

PLUMBING PLAN REVIEW

Submit Complete Plumbing Plans & Specifications Including the Occupant Load and Number of Fixtures

1. Provide a riser diagram for all water piping including sizes, types of pipe and type of fittings.
2. Provide a riser diagram for the drain, waste and vent system including sizes, type of pipe, and type of fittings.
3. Indicate the separation between the water service and sewer.
4. For copper tubing, indicate type of pipe, fittings and lead-free solder.
5. Indicate drinking fountains or bottled water.
6. Indicate the type of backflow protection provided (RPZ requires floor drains).
7. Provide catalog cuts for all fixtures, faucets and plumbing equipment.
8. Indicate indirect drainage and storm water pipe locations.
9. Indicate the type and location of all special valves, appliances and devices.
10. Show thermal expansion tank, temperature relief and vacuum reliefs as necessary for water heaters.
11. Show type of roof drainage, area of discharge, type and size of pipe, location of cleanouts, and location of secondary (emergency) system. Primary and secondary systems shall be separate systems.
12. Indicate the location(s) of all drainage pipe cleanouts.
13. Provide details for accessible access o the plumbing fixtures: size of water closet enclosure, height of water closet, grab bars, lavatory, tissue holder, mirror and length of grab bars.

MECHANICAL PLAN REVIEW

Submit Complete Mechanical Plans Showing Location and Type of All Mechanical Equipment and Appliances

1. Provide catalog cuts with installation instructions, listing BTU input and approved locations for all mechanical equipment.
2. Provide duct design criteria including size, type and gauge of the duct work, and type and location of all supports. Include additional details for all hazardous exhaust systems.
3. Indicate the location of the duct smoke detectors in any system over 2,000 cfm including supervision.
4. Submit a complete ventilation schedule showing the mechanical code occupant load, the supply, return and outside air for each room or area.
5. Submit gas piping plan including location of meter, system pressure, type and size of pipe, and BTU demand for each section of pipe or appliance.

6. Indicate size and location of the combustion air intakes (one high/one low require).
7. Show a 110 V GFCI outlet within 25 feet of all rooftop equipment.
8. Provide piping details including schematics for boilers, hydronic heat and refrigeration.
9. Provide catalog cuts for factory-built fireplaces and details for masonry fireplaces.
10. Provide details for any kitchen hood and exhaust systems including size and gauge of hood and duct, size and type of exhaust fans, shop drawings for suppression system, cleaning schedules, automatic power shutoff and portable extinguisher.
11. Indicate the type, location and rating for the fire and/or smoke dampers and access panels.

ELECTRICAL PLAN REVIEW

Submit Complete Electrical Plans Showing Location of All Devices

1. Provide a floor plan showing the fixtures, outlets, equipment transformers, panels, subpanels, receptacles and special systems.
2. Indicate the type and size of the service (above ground or underground) with the location of meters and main disconnects.
3. Indicate the size and type of all wire and number of all conductors in each conduit or raceway for each circuit.
4. Indicate the size and type of all conduit and/or raceways.
5. Indicate the use and amperage (load) for each circuit.
6. Show the number of circuits, size of circuit breakers, location and size of main disconnect.
7. Show the location of the convenience outlets at all appliance and rooftop equipment.
8. Submit load calculation charts for all panel boards and main service with demand factors.
9. Show emergency lighting to all rooms, spaces, corridors and access routes.
10. Indicate method of connecting exit and emergency lights to the building electric system.
11. Indicate type and location for ground, ground conduit and a bonding jumper at water meter.
12. Indicate the size and type of ground conductors.
13. Show the location of all GFCI outlets.
14. Indicate the location and classification of all hazardous areas and special systems.

ENERGY CODE PLAN REVIEW

Submit

1. ComCheck OR ResCheck: Envelope, lighting, Mechanical, Check Test, Appliance information, Exterior Lighting information.
2. Exterior Lighting—exterior photo cell or time clock operated.
3. Water heater piping diagram indicating recirculation or heat traps.
4. Thermostat for each HVAC equipment.
5. Details shall include R-values, fenestration U-factors and SHGC's, Equipment types, sizes and controls; Duct sealing, Insulation; and Air Sealing.

EXISTING BUILDING PLAN REVIEW

Submit Complete Plans and Specifications Showing Use of All Areas, Equipment Layout, Aisles and Building Components

1. Plans shall be signed and sealed in accordance with the requirements of the state.
2. Provide the information required for a new building or for the building addition including complete plans and specifications.
3. Provide a floor plan for existing building showing use, occupant load, and existing system including square footage of all areas.
4. Indicate the construction type and use group for the existing building or adjacent tenants.
5. Indicate the type of fire protection systems in the existing building.
6. Indicate the type and location of the plumbing fixtures in the existing building.
7. Indicate size, demand and distance to existing gas system, including size of pipe and system pressure.
8. Indicate the loads of existing building and provide calculations showing existing loads and new loads.
9. Provide a site plan showing the location of the existing and new building.
10. Provide calculations/details showing changes or additions to existing fire protection systems.
11. Indicate changes to the existing mechanical systems.
12. Indicate changes made to the existing building for upgrading the access to conform to the new requirements.

ACCESSIBILITY REQUIREMENTS

Required Elements for Accessibility

<input type="checkbox"/> Accessible Routes	<input type="checkbox"/> Detectable Warnings	<input type="checkbox"/> Alarms
<input type="checkbox"/> Windows	<input type="checkbox"/> Restrooms/Baths	<input type="checkbox"/> Lifts
<input type="checkbox"/> Seating	<input type="checkbox"/> Controls	<input type="checkbox"/> Means of Egress
<input type="checkbox"/> Area of Refuge	<input type="checkbox"/> Signage	<input type="checkbox"/> Drinking Fountains
<input type="checkbox"/> Stairs	<input type="checkbox"/> Parking	<input type="checkbox"/> Telephones
<input type="checkbox"/> Storage	<input type="checkbox"/> Entrances	<input type="checkbox"/> Curb Ramps
<input type="checkbox"/> Platform Lifts	<input type="checkbox"/> Work Surfaces	<input type="checkbox"/> Elevators
<input type="checkbox"/> Doors	<input type="checkbox"/> Ramps	

SPRINKLER PLAN REVIEW

Submit Complete Sprinkler Plans Showing All Sprinkler Locations

- Indicate water flow test, pressure, location, time, date, witness and seasonal adjustment.
- Show the type of pipes, joints, fittings, dimensions and lengths.
- Show sprinkler protection for all areas and square footage for each sprinkler.
- Indicate the number, type and temperature ratings for all sprinklers.
- Submit catalog cuts for all sprinklers, pipe fittings and equipment.
- Indicate the building occupancy and submit details for process and storage equipment.
- Submit description of special systems; show valves and trim.
- Show locations of gauges, test valves, main and auxiliary drains.
- Show arrangement, drainage, piping, threads and heights for fire department connection.
- Indicate flushing and documentation for the underground or lead-in connection.
- Indicate that a 200 psi hydrostatic test will be witnessed by the local official.
- Perform a main drain test to obtain the static and residual pressures.
- Show hose rack layouts (storage areas in compliance with NFPA 231 or 231C).
- Indicate the location and show all details for hangers.
- Show supervision of valves and flow switches.
- For hydraulically calculated systems, submit complete calculations, sprinkler system summary sheet for flow diagrams.
- Show all reference points or nodes.
- Provide the calculations used to obtain all special design densities.

FIRE ALARM REVIEW

Submit A Floor Plan Showing the Location of All Equipment and Devices

1. Submit catalog cuts for all equipment.
2. Submit a zone chart or device address list.
3. Submit battery calculations that include all power consuming devices.
4. Indicate name of monitoring agency and listing of the agency.
5. Submit voltage drop calculations for the initiating and alarm device circuits.
6. Submit sequence of operations and special applications.
7. Indicate type of wire and protection of wire when exposed to physical damage.
8. Indicate a system test which indicates a test for each device.

SPECIAL EXTINGUISHING SYSTEM REVIEW

Submit A Floor Plan Showing the Location of All Equipment and Devices

1. Submit catalog cuts for all equipment.
2. Submit a zone chart or device address list.
3. Submit battery calculations that include all power-consuming devices.
4. Indicate name of monitoring agency and listing of the agency.
5. Submit voltage drop calculations for the initiating and alarm device circuits.
6. Submit sequence of operations and special applications.
7. Indicate type of wire with protection when exposed to physical damage.
8. Indicate a system test that indicates a test for each device.