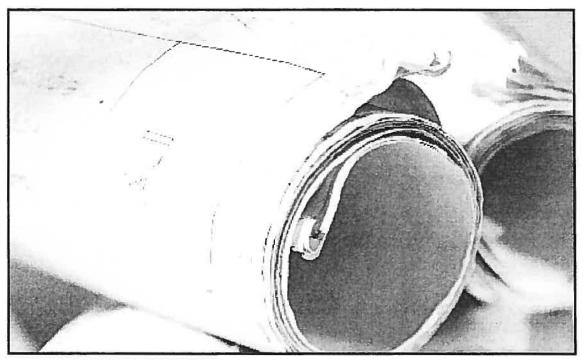
## Plan Review Submittal Guide



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 resubmittals.

## Commercial, Industrial, Single & Multifamily New & Existing Construction

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## 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.

#### TITLE BLOCK:

ARCHITECT • DATE • TYPE OF CONSTRUCTION • USE GROUP • INSTALLED FIRE PROTECTION • DESIGN OPTIONS

Submit Com	plete Buildi	ng Plans a	and Specifi	ications S	Showing	Use
of All Areas,	<b>Equipment</b>	Layout, A	isles and	Building	Compon	ents

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. 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 steel 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, type 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.
0	Show thermal expansion tank, temperature relief and vacuum reliefs as necessary for water heaters.
1	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.
2	Indicate the location(s) of all drainage pipe cleanouts.
3	Provide details for accessible access to the plumbing fixtures: size of water closet enclosure, height of water closet, grab bars, lavatory, tissue holder, mirror and length of the grab bars.

## MECHANICAL PLAN REVIEW

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

1ecnam	car Equipment and Apphances	
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 included in the location of the duct smoke detectors in any system over 2,000 cfm included in the location of the duct smoke detectors in any system over 2,000 cfm included in the location of the duct smoke detectors in any system over 2,000 cfm included in the location of the duct smoke detectors in any system over 2,000 cfm included in the location of the duct smoke detectors in any system over 2,000 cfm included in the location of the duct smoke detectors in any system over 2,000 cfm included in the location of the duct smoke detectors in any system over 2,000 cfm included in the location of the l	ading supervision.
4	Submit a complete ventilation schedule showing the mechanical code occupant le supply, return and outside air for each room or area.	oad, the
5	Submit gas piping plan including location of meter, system pressure, type and size pipe, and BTII demand for each section of pipe or appliance	ze of

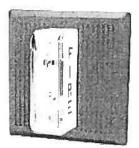
6	Indicate size and location of the combustion air intakes (one high/one low required).
7	Show a 110 V GFCI outlet within 25 feet of all rooftop equipment.
8	Provide piping details including schematics for boilers, hydronic heat and refrigeration.
9	Provide catalog cuts for factory-built fireplaces and 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.
Exis	TING BUILDING PLAN REVIEW
Equipm	Complete Plans and Specifications Showing Use of All Areas, ent Layout, Aisles and Building Components  Plans shall be signed and sealed in accordance with the requirements of your 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.
ENE	rgy 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.

٥	water heater piping diagram indicating recirculation or heat traps.
4	Thermostat for each HVAC equipment.
5	Details shall include R-valves, fenestration U-factors and SHGC's, Equipment types, sizes and controls; Duct sealing, Insulation; and Air Sealing.
SP	RINKLER PLAN REVIEW
	nit Complete Sprinkler Plans Showing All Sprinkler Locations
	Indicate water flow test, pressure, location, time, date, witness and seasonal adjustment.
2	Show the type of pipes, joints, fittings, dimensions and lengths.
3	—— Show sprinkler protection for all areas and square footage for each sprinkler.
4	Indicate the number, type and temperature ratings for all sprinklers.
5	Submit catalog cuts for all sprinklers, pipe fittings and equipment.
6	Indicate the building occupancy and submit details for process and storage equipment.
7	Submit section and plan views of racks or shelving and storage heights.
8	Submit description of special systems; show valves and trim.
9	Show locations of gauges, test valves, main and auxiliary drains.
0	Show arrangement, drainage, piping, threads and height for fire department connection.
1	Indicate flushing and documentation for the underground or lead-in connection.
2	Indicate that a 200 psi hydrostatic test will be witnessed by the local official.
3	Perform a main drain test to obtain the static and residual pressures.
4	Show hose rack layouts (storage areas in compliance with NFPA 231 or 231C).
5	Indicate the location and show all details for hangers.
6	Show supervision of valves and flow switches.
7	For hydraulically calculated systems, submit complete calculations, sprinkler system summary sheet and flow diagrams.
8	Show all reference points or nodes.
9	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

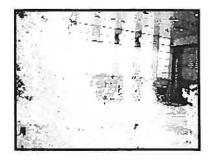
- 1. \_\_\_\_\_ Submit catalog cuts for all equipment.
- 2 \_\_\_\_\_ Submit a zone chart or device address list.
- 3. \_\_\_\_ Submit battery calculations that include all power-consuming devices.
- 4. \_\_\_\_\_ Indicate name of monitoring agency and listing of the agency.
- 5. \_\_\_\_\_ Submit voltage 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 powerconsuming 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.



## ACCESSIBILITY REQUIREMENTS

<b>Required Elements for</b>	Accessibility		
Accessible Routes	Platform Lifts	Parking	Means of Egress
Windows	Doors	Entrances	Drinking Fountains
Seating	Detectable Warnings		Telephones
Area of Refuge	Restrooms/Baths	Ramps	Curb Ramps
Stairs	Controls	Alarms Lifts	Elevators
Storage	Signage	LIIIS	
Specific Facility Type F	-		
1 Provide cuts of al	l plumbing fixtures.		
2 Indicate dwelling	use requirements.		
3 Indicate auditoriu	m and assembly area require	ements.	
4 Provide details fo	r bathtubs and shower stalls	in buildings other than dw	rellingunits.
<b>Exterior Requirements</b>			
1 Indicate accessibi	lity routes.		
2 Indicate total parking spaces for physically challenged, number, sizes and location of spaces.			
3 Indicate sidewalk	size from the parking to the	building.	
4 Indicate size and	slope of ramps and curb cuts	3.	
5 Submit drawing of above ground handicapped signs.			
6 Provide detectable warnings in hazardous locations.			
Interior Requirements			-40.34
1 Indicate egress do	oors into occupiable spaces to	o have approved handles.	
2 Provide catalog c	uts for accessible door hardw	vare (handles, closers, thre	sholds).
3 Show adequate m	aneuvering clearances at doc	ors to gain access to rooms	S.
4 Indicate required handrails on both sides of stairs and ramps.			
5 Indicate locations of hall call buttons, floor destinations, tactile characters (elevator lobbies).			
6 Provide detectabl	e warnings in hazardous loca	ations.	
7 Indicate size of fl impaired equipme	oor access to public area tele	ephones, heights of operab	le parts and hearing
•	n for objects protruding into	walks, halls, corridors, pa	ssageways or aisles

9	Indicate special occupancy requirements.
10	Indicate clear floor and knee space for accessible drinking fountains and lavatories.
11	Indicate location of water closets relative to walls and other fixtures.
12	Indicate the height to the top of the water closet seat for the accessible fixtures.
13	Indicate the height above the finished floor surface, bar sizes, length of bars and distances from walls for required grab bars at the water closet. Indicate height and location of required toilet paper dispensers.
14	Indicate areas of refuge for physically challenged.

## 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 panelboards 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.