

Here is what I learned at the North Zone Structures Preplan Subcommittee held March 19, 2007. Listed below is the proposed minimum standard information they need to collect for preplans. The fire marshal is usually the point person for this information. Much of the time they collect the information when the building permit is pulled.

During construction

Vicinity Map – Small scale map showing address, curbs, streets, and major cross streets around the preplan site.

Area and Water Supply Map – Larger scale map showing building or eventual building footprint with its immediate surrounding streets, access points, closest hydrants, immediate exposures, railways, lock boxes, and any fire department connections.

After Construction, before occupancy, from as built and on site visit

Plot/Site Plan – Depicts building or facility and structural elements, accesses, utilities, fire protection systems, and other facts needed by the user in order to develop an effective emergency control plan. Separate plot plans should be developed for each floor. In cases where building shells are built and sections are sold or leased to tenants the information can be pulled from the tenet improvement permit and plans.

Occupancy Information – Includes:

- Construction information about exterior walls, roof construction and materials, floor construction and materials
- Occupancy information including occupancy class, number of floors, maximum number of occupants
- Emergency notification contacts
- Fire protection systems
- Utilities and shut offs

Elevator Information – Type, manufacturer, emergency service, number of cars, machine room, fireman service, control key, car communication system, interlock tool, emergency operation instructions, control panel diagram

Hazardous Materials Information – First Responder Haz Mat Business Plan supplied by County Dept of Environmental Health (CD provided to agencies every 2 months). Plan includes location of inventoried quantities of hazardous materials and hazardous wastes with a drawing of the building (many times hand drawn and not to scale).

Tactical Plan – List of predetermined actions such as staging areas, search patterns, and suppression activities

Developments that Require Preplans

What developments or buildings that need preplans are left up to each fire protection agency or jurisdictions. In general the list of developments is:

Attached multi-family residential

Sites that store, use, or dispense hazardous materials

Places of public assembly (includes commercial facilities)

Education facilities K – Universities

Shopping centers and strip malls

Ambulatory and non-ambulatory assisted living facilities

Mobile home parks

Subdivisions under construction (only need Vicinity map and Area Water Supply Map)

I also did a little internet research on digital submittals. What I found is that we are not the first to do this and we can probably learn from some of the documents below.

Challenges in the Creation of Digital Submittal Standards for CAD to GIS Data Transfer

<http://gis.esri.com/library/userconf/proc01/professional/papers/pap451/p451.htm>

Massachusetts' Standard for Digital plan Submittal to Municipalities

<http://www.mass.gov/mgis/DigPlanStandard.pdf>

City of Indianapolis Digital Submittal Standard

<http://www.indy.gov/NR/rdonlyres/ewnoix3ifagarnconfphxn2pb76tyecemaoyfoidkuoao3a562t5m7w4tachafynfw3gzalk4zopv2hhbsmklmup3ic/Digstandards.pdf>

City of Sacramento

<http://www.cityofsacramento.org/dsd/maps/DigitalMapSubmissionStandards.cfm>

City of Columbus, Ohio

<http://td.ci.columbus.oh.us/formsandpublications/Digital-Submission-Standards.asp>