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What are shop drawings used for

If you work in the AEC industry, then you must have heard the terms ‘construction drawings’, ‘shop drawings’ and ‘as-built drawings’ quite often. Shop Drawings vs Construction Drawings vs As-Built Drawings: what is the difference between these terms? Table of Contents: Different drawing types Construction Drawings Every real-estate project passes through several phases before the construction begins on site. One of these is the design phase, which includes all specifications and architectural drawings necessary for the construction. This is done with construction working drawings. So, what is a working drawing? In the design phase, design drawings are developed into a thorough and precise set of construction documents. These drawings and specifications have all the details, dimensions, and notes necessary to communicate the whole design intent to the builder. They show how the building components should be connected, specify all of the materials, finishes, fixtures, equipment, and appliances to be installed, and coordinate these drawings with the structural engineer and any other consultant’s drawings. This is a critical step in the process of successfully and accurately executing the design that one has invested in. Typically, a full-fledged set of architectural construction documents should include: Plans Exterior and interior elevations Building and wall sections Interior and exterior details Schedules and finishes Framing and utility plans There are several ways of creating effective construction documentation. You can read more about it or get in touch with us to discuss the details of your next project. Shop Drawings Working drawings help to represent components and communicate with end clients. Shop drawings, on the other hand, are used by fabricators to know how the components will be manufactured and installed during the construction process. What is a shop drawing? Shop drawings (also known as fabrication drawings) are detailed plans that translate design intent. They provide fabricators with the information necessary to manufacture, fabricate, assemble and install all the components of a structure. Click Here View Our Portfolio Shop drawings supplement working drawings. Consider them an add-on or a detailed development of construction working drawings. They typically include fabrication and installation details, structural steel detailing, windows and door installations and other MEP components. With the help of shop drawings, you will be able to figure out the kind of materials you will require for the components, the dimensions of the proposed installations, and the timelines. So, does this mean the custom shop drawings for your new project should be ready before the construction phase? Definitely. Getting shop drawings drawn or documented should be one of the first to-dos on your checklist before your project kicks off. You will get two birds with one stone if you have your construction shop drawings in place You will know your building’s design, installed components and specific details inside out, long before the construction begins. With detailed shop drawings in hand, your team will be on the same page – project managers, contractors, designers and manufacturers. But what specifications comprise shop drawing details? Based on the kind of project, the type of property, and your budget, your shop drawings will have varied electrical drawings, mechanical drawings and plumbing drawings. Essential details that your shop drawings must include: Information required for fabrication, such as dimensions and special instructions, including connection details Applicable fabrication standards Installation and erection information Dimensions that require on-site verification Comparisons to construction documents to enable approval by the architect or engineer Notes on changes from the construction documents to enable approval by the architect or engineer As-built Drawings Also known as record drawings or red-lined drawings, as-built drawings are documents that allow you to compare and contrast the designed versus final specifications. They provide a detailed blueprint of the building and the land around it as actually constructed in the end. So, what are as-built plans? As-builts are defined as a “revised set of drawings submitted by a contractor upon completion of a project or a particular job. They reflect all changes made in the specifications and working drawings during the construction process, and show the exact dimensions, geometry and location of all elements of the work completed under the contract.” The final as-built drawings include all of the following, as well as every other change made during the construction phase of a project: Modifications Field changes Shop drawing changes Design changes Extra works Learn about our Architectural Drawings Services . Why should you have as-built architectural drawings? As built construction documents reflect the actual structure or the building – not as it was conceived as idea, but as it actually stands. Buildings don’t always stick to plans and the final structure may be slightly or significantly different to the original idea. As-built drawings are developed by contractors and sub-contractors from red-lined drafts and are essential to your construction project. This is true for a variety of reasons: Offer insights into safety: With as-built drawing plans, process hazard analysis and safety management become easy to achieve. Since the plans show where equipment shut-off valves are located, you can develop emergency evacuation plans, install safety equipment and set up contingency plans around your building perimeter. Facilitate future repairs and renovations: Since the as-built drawing process takes into account only the final erected structure and installed components, they come in handy for any maintenance work in future. They serve as construction documents and shop drawings when the need to renovate an old structure arises. They also ensure that retrofits, if required, are carried out efficiently. Maintenance and operations is a breeze: As built drawings assist in maintaining and easy operation of structures, because they have a clear documented history of the building. They also include electrical as built, mechanical as built and plumbing as built, allowing faster repairs by quick reference. Without custom as-built drawings, determining installed components, locating them and then repairing them is time-consuming and expensive. Conclusion Do you need shop drawings, construction drawings, or as-built drawings? Get in touch with BluEntCAD today! Maximum Value. Achieved. Join the Community Malcolm Tatum Date: April 21, 2022 A shop drawing is a set of sketches and drawings that are prepared prior to the creation of various types of devices. The idea behind the drawings is to provide guidelines for the manufacturing of those devices, helping to ensure that quality standards and other specifications are met. Drawings of this type are common for a number of different applications, including the manufacturing of pre-fabricated building components such as elevators or cabinets. Benefits associated with these types of construction documents include the ability to ensure quality, some degree of uniformity in the dimensions of each of the components, and the ability to correct potential issues before they have the chance to complicate the actual installation and construction. Professionals who normally create blueprints, such as engineers or architects, do not prepare the typical shop drawing. Instead, these types of drawings are normally prepared by contractors, suppliers, or manufacturers in response to the needs of clients. This does not mean that blueprints do not influence the technical drawing that is common to shop drawings. In fact, the detail provided by an engineer or an architect will aid in the creation of a shop drawing that is to scale and fits in neatly with the vision of the architect. Manufacturers who prepare the drawings may also utilize them when working with a client to develop the ideal design for a specific project. This means the shop drawing may relate to a component that is mass-produced, or a series of components that are custom designed for a particular client. In some ways, the shop drawing is a means of creating the component on paper before moving on to the task of manufacturing the component using materials. This approach makes it possible to adjust dimensions and other elements before any raw materials are actually used in some type of construction. From this perspective, the show drawing serves to minimize waste during construction or during a manufacturing project, which in turn helps to keep project costs within the limits of a budget. A shop drawing is often associated with pre-fabricated components used in building projects. This means that components of the project such as ductwork for a heating and cooling system, major built-in appliances, counters, kitchen and bathroom cabinets, and even pre-fabricated windows and doors are often manufactured using some type of shop drawing. Virtually any type of millwork will involve the use of a shop drawing as a means of producing components that are ideal for the intended purpose. Use of these types of components can help to expedite construction, since the uniform dimensions of the components manufactured with the aid of the drawings are matched to the specific needs of the construction design. After many years in the teleconferencing industry, Michael decided to embrace his passion for trivia, research, and writing by becoming a full-time freelance writer. Since then, he has contributed articles to a variety of print and online publications, including AboutMechanics, and his work has also appeared in poetry collections, devotional anthologies, and several newspapers. Malcolm’s other interests include collecting vinyl records, minor league baseball, and cycling. 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