Include the following items on the project drawings. See DCSM sections 2.4 and 2.7 for additional details on drawings. See DCSM section 2.7.5.7 for additional information on pre-engineered metal buildings, structural steel, steel joists and joist girders, and prefabricated wood components.

**Instructions**:

Indicate your response to each item in the checklist. Select ‘Yes’ if the checklist item has been completed in full. Select ‘No’ or ‘N/A’ if that item is not included or not required for the specific project. Explain why that item has not been included in the submittal.

| **RESPONSE** | **REQUIREMENTS** |
| --- | --- |
|  | Pre-engineered Metal Buildings |
| Choose an item. | Indicate the floor and eave height dimensions required. |
| Choose an item. | Indicate clear spans and clear heights as necessary. |
| Choose an item. | Provide the roof slope required or provide the minimum and maximum roof slope. |
| Choose an item. | Indicate type of roof and wall coverings. |
| Choose an item. | Show approximate locations for downspouts, roof ventilators, louvers, and skylights. |
| Choose an item. | Indicate location and required thermal resistance value (R-value) for insulation. |
| Choose an item. | Indicate depth of roof and wall coverings, if necessary. |
| Choose an item. | Show the locations of liner panels. |
| Choose an item. | Provide the minimum design roof dead, live, and snow loads. |
| Choose an item. | Provide the basic wind speed in miles per hour. |
| Choose an item. | Provide the collateral loads for special equipment or crane loads, or special live loading. |
| Choose an item. | Provide the importance factor for wind and seismic computations. |
| Choose an item. | Show the foundation plan with dimensions and details. Provide the allowable design bearing capacity of soil on which this design is based. Confirm that the Contractor has included in his price any modifications necessary for his building. |
| Choose an item. | Where applicable, state the allowable horizontal drift between the pre-engineered metal building and adjacent or adjoining construction. |
|  | Unit Masonry (Brick and/or CMU) |
| Choose an item. | Indicate locations and dimensions of each kind of masonry work. |
| Choose an item. | Provide masonry compressive strength (*f'm*), type, and fire rating, if required. |
| Choose an item. | Indicate mortar types and identify where used. |
| Choose an item. | Provide vertical reinforcing bar size and spacing where required. |
| Choose an item. | Indicate horizontal reinforcing and spacing. |
| Choose an item. | Show control joint locations. |
| Choose an item. | Show expansion joint locations. |
| Choose an item. | Indicate bond pattern if other than running bond. |
| Choose an item. | Indicate through-wall flashing and provide weep details. |
| Choose an item. | Provide control joint and expansion joint details. |
| Choose an item. | Indicate special brick shapes, if required. |
| Choose an item. | Indicate bond beam locations, sizes, and reinforcing. |
| Choose an item. | Show lintel locations. |
| Choose an item. | Provide lintel schedule with sizes, shapes, components, reinforcing, etc. |
| Choose an item. | Provide details of anchorage of masonry to supporting structure. |
| Choose an item. | Provide details of bearings on masonry and of anchorages to masonry. |
|  | Structural Steel |
| Choose an item. | Indicate yield strength of steel used in design. |
| Choose an item. | Provide the extent and location of structural steel. |
| Choose an item. | Provide designations of steel members. |
| Choose an item. | Show centerline dimensional locations of framing members. |
| Choose an item. | Provide top of steel elevations above or below a reference elevation. |
| Choose an item. | Provide connection details of typical connections. |
| Choose an item. | Provide details of special and moment resisting connections. |
| Choose an item. | Show beam or girder camber, if required. |
| Choose an item. | Provide shoring information and typical details, if shoring required during construction. |
| Choose an item. | Indicate locations where galvanized steel will be used. |
| Choose an item. | Provide size and shape of crane rails. |
| Choose an item. | Provide types of connections (welded and bolted), including adjustable runway support connections if overhead, top running cranes are provided. |
| Choose an item. | Provide locations where high strength bolts and slip critical connections are required and the loads and stresses required if design is provided by Contractor. |
| Choose an item. | Indicate the location of welds requiring nondestructive testing, along with the type of testing required. |
| Choose an item. | Show lateral bracing members and framing. |
| Choose an item. | For composite beams, show shear stud number, size, and spacing required. |
|  | Steel Joists and Steel Girders |
| Choose an item. | Indicate the size, type, and spacing for standard open web steel joists and joist girders. |
| Choose an item. | For non-standard loading conditions, confirm compliance with DCSM section 2.7.5.7.3. |
| Choose an item. | Provide joist series, size and spacing, point loads (if any), and slope. |
| Choose an item. | Provide joist girder depth, kip load on each panel point, span, and slope. |
| Choose an item. | Provide design loads. Include uplift and lateral forces in addition to gravity (dead and live) loads. |
| Choose an item. | Indicate method of anchoring joists to supports. |
| Choose an item. | Show stiffeners at point/concentrated loads. |
| Choose an item. | Show framing between joists at openings through supported roof or floor. |
| Choose an item. | Show framing at equipment being supported by joists/joist girders. |
| Choose an item. | Show spacing and type of bridging and bracing. |
| Choose an item. | Show accessory details as applicable. |
| Choose an item. | Provide bearing details on masonry. |
|  | Steel Decks |
| Choose an item. | Indicate which roof areas on the structure are considered by the structural engineer as functioning as diaphragms for the lateral force resisting system. |
| Choose an item. | Confirm that composite decks and diaphragm acting decks, including connections, are designed by the structural engineer according to the Steel Deck Institute. Show details on the drawings. |
| Choose an item. | Show wind uplift loads for roof joist design. |
| Choose an item. | Provide structural properties. Include height, sheet thickness, section moduli, and moment of inertia. |
| Choose an item. | Show openings in floor and roof deck. Provide typical detail of framing at opening. |
| Choose an item. | Show location, spacing, and size of hanger clips or loops for critical locations. |
| Choose an item. | Show closure plates, where required. |
| Choose an item. | Show location of cellular decking. Indicate if it is to be used as an electrical raceway. |
| Choose an item. | Provide weld or fastener sizes and spacing. |
| Choose an item. | Indicate if construction is based on shored construction. |
| Choose an item. | Provide end and side lap details. |
|  | Cold-Formed Metal Framing |
| Choose an item. | Show the extent and location of all cold formed metal framing. |
| Choose an item. | Indicate gage, size, section modulus, and other structural properties required. |
| Choose an item. | Show connections and other installation details. |
| Choose an item. | Indicate concentrated loads that may overstress a flange or connection (e.g., pipe supports). |
| Choose an item. | Provide slip connection requirements at underside of roof members. |
|  | Metal Fabrications |
| Choose an item. | Show location and configuration of all metalwork. |
| Choose an item. | Provide all sizes and dimensions. |
| Choose an item. | Show special fastenings, attachments, or anchoring. |
| Choose an item. | Show location and size of expansion shields larger than a 3/8" diameter. |
| Choose an item. | Show location and identification of products to be galvanized. |
| Choose an item. | Show location and special details of expansion joint covers. |
| Choose an item. | Provide connection details (other than manufacturer’s standard) of grating. |
| Choose an item. | Locate and detail removable sections of handrails. |
| Choose an item. | Show location and support detail of ladders. |
| Choose an item. | Show location and details of all structural steel door frames. |
| Choose an item. | Show sections, dimensions, sizes, and details of all metal stairs. |
|  | Rough Carpentry |
| Choose an item. | Show location and magnitude of concentrated loads. |
| Choose an item. | Provide grade and stress rating of structural lumber. |
| Choose an item. | Show sizes and spacing of all wood framing members including trusses. |
| Choose an item. | Show location, size, type, and thickness of all materials. |
| Choose an item. | Show size and spacing of special fasteners. |
| Choose an item. | Provide details of connections. |
| Choose an item. | Show size and spacing of anchor bolts. |
| Choose an item. | Provide details of all connections and anchorage where special conditions exist such as high wind, hurricane, and earthquake areas. |
| Choose an item. | Indicate locations where treated lumber is required. Include type of treatment (preservative or fire retardant treatment). |
| Choose an item. | Provide details of depressed floors to receive ceramic tile. |
|  | Finish Carpentry |
| Choose an item. | Show location, size, type, and thickness of materials. |
| Choose an item. | Show size and spacing of special fasteners or attachments. |
| Choose an item. | Provide special details, sections, and requirements of millwork. |
| Choose an item. | Provide type and pattern of prefinished material. |
| Choose an item. | Show profile and size of trim. |
| Choose an item. | Provide color and pattern of prefinished material. |
| Choose an item. | Provide location and species of any wood that is to be stain, natural, or transparent finish. |
|  | Exterior Insulation and Finish System |
| Choose an item. | Indicate locations of exterior insulation and finish systems (EIFS). |
| Choose an item. | Indicate thermal resistance value (R-value) for each location if various R-values are used. |
| Choose an item. | If several levels of impact resistance are specified, indicate locations where each level is required. |
| Choose an item. | Show joint layout on elevations. |
| Choose an item. | Provide details at edges and at joints and of special profiles. |
|  | Elevators |
| Choose an item. | Show fire-rated hoistway with vent at top where required by code. |
| Choose an item. | Show waterproofed pit with ladder, indirect drain or sump, light, and ground fault circuit interrupter (GFCI) receptacle. |
| Choose an item. | Show machine rooms at a minimum 1/4″ scale. Show all equipment to be provided by others. Show all required clearances with text or faded lines. |
| Choose an item. | Show machine room with ventilation to maintain temperature, light and outlet, and fire extinguisher. Confirm that pipes, ducts, conduits, etc., will not be run through or over the machine room. Confirm that no other equipment will be located in the machine room. For new machine rooms in existing buildings, show how pipes, ducts, conduits, etc., are relocated. |
| Choose an item. | Show hoist beam at top of shaft, removable if necessary for overhead clearance. |
| Choose an item. | Show smoke detectors in each lobby and machine room to initiate firefighter’s return. |
| Choose an item. | Show heat detectors in shaft and machine room to activate elevator return. |
| Choose an item. | Show locations of power feeders to machine room. Include disconnects for elevator machine and cab lighting, and phone connection in machine room. |