

SECTION 01330 SHOP DRAWINGS / SUBMITTALS

1.1 THE REQUIREMENT

A. General

1. Shop Drawings and submittals shall be provided, at the CONTRACTOR'S expense, when required by the Plans of Specifications, or requested by the ENGINEER.
2. Materials shall not be furnished or fabricated, nor any Work done for which Shop Drawings or submittals are required, before those Shop Drawings or submittals have been reviewed, as provided in this Section. Neither review nor approval of Shop Drawings or submittals by the ENGINEER shall relieve the CONTRACTORS from responsibility for errors, omissions, or deviations from the Contract Documents, unless such deviations were specifically called to the attention of the ENGINEER in the letter of transmittal. The CONTRACTOR shall be responsible for the correctness of the submittals and Shop Drawings, including shop fits, field connections, and results obtained by use of such drawings.
3. The CONTRACTOR shall allow a minimum of thirty (30) working days for each review of Shop Drawings and submittals for temporary bridges. For all other Shop Drawings and submittals, the CONTRACTOR shall allow a minimum of twenty (20) working days for each review, unless otherwise mutually agreed to by the CONTRACTOR and the ENGINEER. Review periods are not cumulative. The aforementioned time frames begin anew upon each submission of Shop Drawings and/or submittal whether it is the initial submission or a resubmission after review by the ENGINEER. Each set of Shop Drawings or submittals shall be accompanied by a letter of transmittal describing exactly what is being transmitted.

B. Shop Drawings

1. Shop Drawings shall be prepared in accordance with current modern engineering practice and shall be of a size and scale to clearly show all necessary details.
2. Each Shop Drawing shall be a good quality transparency, accompanied by six (6) prints. If no change or correction is required, three (3) prints will be returned to the CONTRACTOR. If extensive additions or corrections are required, the ENGINEER will return one (1) marked-up print along with the transparency, for corrections and resubmission. Final transparencies will be retained by the CITY.
3. Layout diagrams or schedules are required for pipelines utilizing pipe materials conforming to the indicated subsections. The diagrams or schedules shall be submitted for reference only, except curve layouts are required for approval.

4. The diagram shall be of a size and scale to show clearly all necessary details. Pipeline layouts, for reference only, may be submitted in tabulated form in increasing order of alignment stationing.
5. Shop Drawings are required in the following subsections:

Item	Section Number	Title	Subject
1	01573	Excavation Shoring, Forms, and Falsework	Trench Shoring
2	207-2.5	Joints	Reinforced Concrete Pipe
3	207-8.4	Joints	Vitrified Clay Pipe
4	207-10.2.1	General	Fabricated Steel Pipe
5	300-3.2	Cofferdams	Structure Excavation & Backfill
6	303-1.6.1	General	Falsework
7	303-1.7.1	General	Placing Reinforcement
8	303-3.1	General	Prestressed Concrete Construction
9	304-1.1.1	Shop Drawings	Structural Steel
10	304-1.1.2	Falsework Plans	Structural Steel
11	304-2.1	General	Metal Hand Railings
12	306-2.1	General	Jacking Operations
13	306-3.1	General	Tunneling Operations
14	306-3.4	Tunnel Supports	Tunneling Operations
15	306-6	Remodeling Existing Sewer Facilities	Polyethylene Liner Installation
16	306-8	Microtunneling	Microtunneling Operations
17	306-4.3	Controller Cabinet Wiring Diagrams	Traffic Signal Construction
18	306-1.2.2	Pipe Laying	Pipeline Shop Drawings

6. Shop Drawings listed above as Items, 5, 6, 8, 9, 10, 12, 13, 14 and 16 shall be prepared by a Civil or Structural Engineer registered by the State of California.

C. Submittals

1. Submittals shall consist of the appropriate combination of catalog sheets, material lists, manufacturer's brochures, technical bulletins, specifications, diagrams, or product samples, necessary to describe a system, product, or items. Submittals for systems shall be bound together and include all manufactured items for the system. Six (6) copies of each submittal shall be transmitted to the ENGINEER. If no change or corrections is required, three (3) copies will be returned to the CONTRACTOR.
2. Submittals are required for irrigation systems, street lighting systems, and traffic signals, and may be required for any product, manufactured item, or system.

(END OF SECTION)