

Diary Number: _____

Inspector Name: _____

TRACS Number: _____

Date: _____

Division VI: Structures
Title: Substructure

Structure Name
Structure Number
Structure Member
Start Station
End Station

Attribute Numbers	Compliance	Narratives	References
0.		All stakeholders have participated in the pre-activity meeting (can be combined with other pre-activity).	Standard Specifications 601-3.03 (B)
1.		Employees are protected from falls by the use of guardrail system, safety net system or personal fall arrest system.	OSHA 1926.50
2.		Certificates of compliance and assemblies for vertical restrainers are submitted?	Standard Specifications 601-3.09 (B)
3.		Survey staking plan is submitted and approved.	Standard Specifications 925-3
4.		Area is blue staked prior to beginning of excavation.	Standard Specifications 107.15
5.		Survey and layout are performed according to the project plans.	Standard Specifications 925-1
6.		Final location of structure/edge of forms checked against reference stakes (points).	Standard Specifications 601-4.02
7.		Approved shoring methods are provided or sides of excavation are sloped to meet current OSHA requirements.	Standard Specifications 203-5.03 (A)
8.		Excavated materials match what is shown in plan boring logs.	Standard Specifications 601-3.01
9.		Foundations are placed on a suitable bearing.	Standard Specifications 601-3.01
10.		Unsuitable material is removed, disposed and replaced with suitable material.	Standard Specifications 203-3.03 (D)
11.		Structure backfill material is compacted to the required densities.	Standard Specifications 203-3.03 (A)
12.		Excavation is performed in close conformity to the lines, grades, and cross sections shown on the design details.	Standard Specifications 601-3.02 (C)(1)

13.		Forms are set to the dimensions and tolerances as required of the shop drawings.	Standard Specifications 601-3.02 (A)
14.		Forms being reused are maintained as to the accuracy of shape and smoothness of surface.	Standard Specifications 601-3.02 (C)(1)
15.		Forms are cleaned of dirt, sawdust, grease, old concrete, and other foreign materials and sprayed with an approved form-release agent prior to placing concrete in the forms.	Standard Specifications 601-3.02 (C)
16.		Forms are mortar tight and adequately braced to prevent displacement during concrete placement.	Standard Specifications 601-3.02 (C)(1)
17.		Footing cross sectional dimensions vary by no more than plus 2-inch to minus 1/2-inch.	Standard Specifications 601-4.02 (A)(7)
18.		Girder bearing seat deviation from the required elevation is plus 1/8-inch to minus 1/4-inch.	Standard Specifications 601-4.02 (A)(4)
19.		Girder bearing seat deviation from the plane surface is 1/8-inch in 10 feet.	Standard Specifications 601-4.02 (A)(7)
20.		Proper size chamfer is placed in the proper location in accordance with the project plans.	Standard Specifications 601-3.02 (C)(1)
21.		Plumbness of girder walls, piers, columns, and abutments do not vary by more than 3/8-inch in 10 feet or by a maximum of 1-inch total across the entire height.	Standard Specifications 601-4.02 (A)(1)
22.		Cast in place concrete box girder and intermediate diaphragms deviate in overall depth plus 1/4-inch to minus 1/8-inch.	Standard Specifications 601-4.02 (A)(8)
23.		Cast in place concrete box girder and intermediate diaphragms deviate in slab and wall thickness plus 1/4-inch to minus 1/8-inch.	Standard Specifications 601-4.02 (A)(8)
24.		Variation in cross sectional dimensions of columns, piers, girders, and in the thickness of slab and walls is within minus 1/8-inch to plus 1/4-inch.	Standard Specifications 601-4.02 (A)(2)
25.		Reinforcing steel placement is as shown on the project plans prior to concrete placement.	Standard Specifications 605-3.01
26.		PVC drain pipes (weep holes) are placed at the proper elevation, slope, and spacing according to the project plans?	Plans
27.		When required, the keyed construction joints are constructed in accordance with the project plans.	Plans
28.		Vertical restrainers are in the correct position, location, dimension, and orientation in accordance with the project plans.	Standard Specifications 601-3.09 (C)
29.		For the fixed restrainer, 1/2-inch polystyrene is placed around the 3/4-inch cable and wrapped with duct tape in accordance with the project plans.	Plans
30.		Care is taken in form removal so not to scar, deface, or damage the concrete.	Standard Specifications 601-3.02 (D)
31.		For all construction joints more than 8 hours old, the reinforcing steel and entire surface of the joint are thoroughly cleaned by abrasive blast methods.	Standard Specifications 601-3.04 (A)
32.		Immediately prior to concrete placement, the forms, subgrade and reinforcing steel are sprinkled with cool water (required for temperatures above 90 degrees F. but recommended for all temperatures above freezing).	Standard Specifications 1006-5.02

33.		The rate of concrete placement conforms to the requirements.	Standard Specifications 601-3.03 (A)
34.		Forms are kept in place until the specified curing time has elapsed.	Standard Specifications 601-3.02 (D)
35.		Care is taken when removing falsework and forms so not to damage the structure.	Standard Specifications 601-3.02 (D)
36.		Formed surfaces are finished immediately after the removal of the forms.	Standard Specifications 601-3.05 (A)
37.		For Class 1 finishes, all bolts, wires, snap ties, and rods are clipped and recessed 1-inch below the surface of the concrete and all holes, honeycombs, rock pockets and other surface imperfections are cleaned to sound concrete.	Standard Specifications 601-3.05 (B)
38.		If a Class 2 finish is required, all form joints are taped and caulked acceptably.	Standard Specifications 601-3.05 (C)
39.		Class 2 finishes are uniform in texture and pleasing in appearance.	Standard Specifications 601-3.05 (C)
40.		All trash, formwork, and construction debris is removed from the excavation before backfilling.	Standard Specifications 203-5.03 (B)(3)
41.		Backfill material is not placed against the backside of retaining walls, wing walls, and abutments prior to the concrete reaching its full design strength.	Standard Specifications 203-5.03 (B)(3)
42.		When backfilling on each side of a substructure, the backfill is brought up evenly on both sides with no more than 2' height differential between each side.	Standard Specifications 203-5.03 (B)
43.		Backfill is placed in accordance with the project plans regarding location, dimensions, and limits.	Standard Specifications 203-5.03 (B)
44.		Backfilling is placed in uniform 8 inch lifts (4 feet for slurry) and compacted to the required density.	Standard Specifications 203-5.03 (B)
45.		Backfill is compacted without damaging the structure or nearby structures.	Standard Specifications 203-5.03
46.		Structure backfill material does not contain frozen lumps, chunks of clay, or other objectionable material.	Standard Specifications 203-5.03
47.		Quantlist Minimum Frequency is being followed, one per Span.	Construction Bulletin 07-01