

Diary Number: \_\_\_\_\_

Inspector Name: \_\_\_\_\_

TRACS Number: \_\_\_\_\_

Date: \_\_\_\_\_

**Division VI: Structures**  
**Title: Reinforcing Steel Placement**

Structure Number
Structure Name
Member Description
Start Station
End Station
Offset

Attribute Numbers	Compliance	Narratives	References
0.		All stakeholders have participated in the pre-activity meeting (can be combined with other pre-activity).	Recommended
1.		The contractor safety plan has been reviewed and approved by the engineer and is being followed. The plan shall satisfy occupational safety guidelines in all construction activities involved in the project. For additional information, refer to ADOT Standard Specification 107.08.	OSHA 29 CFR 1910 OSHA 29 CFR 1926 Standard Specifications 107.08
2.		The Certificates of Compliance to which state that steel or iron products incorporated into the project meet the Buy America Act requirements', certifying that all manufacturing processes producing a steel or iron product, including any application of a coating to iron or steel, occurred in the United States.	23 CFR Part 635.410 Special Provisions 106.05 Standard Specifications 106.15
3.		A copy of the shipping document has been furnished for each shipment of bar delivered to the site of the work; the documents show the sizes, lengths and weights of the reinforcing separately for each structure.	Materials Practice and Procedure Directives 1 - 3.2 Standard Specifications 1003-1 Standard Specifications 106.05
4.		A certified welder, by the American Welding Society (AWS), is required for all welding.	Standard Specifications 605-3.01

5.		For Pre-shipment sampling: All shipments will be subject to spot random sampling upon arrival at the project. The project sample will consist of one sample bar seven (7) feet in length, regardless of the number of bar sizes (pre-cut bars furnished by the supplier are not acceptable).	Materials Practice and Procedure Directives 1 – 3.3
6.		For non-pre-sampled reinforcing bars, a random sample seven feet in length is taken for each bar size, grade, heat number and manufacturer.	Materials Practice and Procedure Directives 1 – 4.1
7.		When placed in the work all reinforcement is free of dirt, oil, paint, grease, and heavy rust.	Standard Specifications 605-3.01
8.		When bar bending diagrams are not shown on the project plans, shop drawings and lists showing the bending of reinforcement bars has been approved by the Engineer.	Standard Specifications 605-3.01
9.		When field bending is required, it is done without heat. Bars are checked for cracks or splits; if found, the bar is rejected.	Standard Specifications 605-3.01
10.		Grade 40 bars which are Number 8 and larger, and all sizes of Grade 60 bars will not be re-bent at the same location of the original bend. Grade 40 bars which are size No. 7 and smaller may be re-bent once in the area of the old bend.	Standard Specifications 605-3.01
11.		All reinforcement will be furnished in the full lengths indicated on the project plans or approved shop drawing.	Standard Specifications 605-3.02
12.		Reinforcing steel is tied at all intersections and splices using 16 gauge or heavier tie wire. If spacing is less than 12 inches in each direction, alternate intersections may be tied.	Standard Specifications 605-3.01
13.		Tack welding of reinforcement will not be permitted unless approved in writing by the Engineer.	Standard Specifications 605-3.01
14.		Reinforcing steel mechanical splice samples are at least 42 inches long with the splices at mid length. Three test splice samples are done in the presence of the Engineer and submitted for each size bar for approval.	Standard Specifications 605-3.02
15.		Splices will be staggered as far as possible. The type and method of splices or connections will be approved by the Engineer	Standard Specifications 605-3.02
16.		Splices are in accordance with the project plans and only approved mechanical splicers are used.	Standard Specifications 605-3.02
17.		Precast mortar tie-blocks, metal or plastic chairs, spacers, hangers, wires or other approved supports are used to insure proper spacing and maintain the specified clearance of the reinforcing steel.	Standard Specifications 605-3.01
18.		When epoxy-coated reinforcement is required, all metal hardware (chairs, tie-wire, screed rail supports, etc.) that will remain permanently in the concrete will be epoxy coated reinforcement; shall be made of or coated with a dielectric material.	Standard Specifications 605-3.03 (B)

19.		Field repair of epoxy coated bars is required wherever the area of coating damage exceeds two percent of the surface area of the bar in a one-foot length and the damaged spot is larger than ¼ by ¼-inch. The material used for field repair shall be that supplied by the coating applicator.	Standard Specifications 605-3.03 (B)
20.		Field repair will not be allowed on bar which have severely damaged coatings (defined as a coating which have a total damaged area greater than five percent of the surface area of the reinforcing bar). The Engineer shall be the sole determiner of the severity of damaged area for purposes of repair or replacement.	Standard Specifications 605-3.03 (B)
21.		Pebbles, broken stone, concrete masonry blocks, brick, metal pipe or wood blocks shall not be used for spacing or support.	Standard Specifications 605-3.01
22.		No concrete is placed in any structure until the placement of reinforcing steel and the adequacy of the forms and falsework have been approved by the Engineer.	Standard Specifications 601-3.03 (A)
23.		The quantity (bar count) of reinforcing steel, is in accordance with the project plans and recorded in daily diary.	Construction Manual 605-4
24.		Clearance from the forms in vertical walls, columns, wings and similar members is within the allowable tolerance of ± ¼ inch.	Standard Specifications 605-3.01
25.		In slabs or walls, long runs of bars may vary up to two inches of plan spacing; however, the specified number of bars shall be placed.	Standard Specifications 605-3.01
26.		Quantlist Minimum Frequency is being followed, once prior to pour.	Construction Bulletin 07-01