

Inspector Quantlist Report 20250623

Diary Number: _____

Inspector Name: _____

TRACS Number: _____

Date: _____

Division VI: Structures

Title: Reinforcing Steel Placement

Structure Number:	Structure Name:
Member Description:	Offset:
Start Station:	End Station:

Attribute Numbers	Yes, No N/A	Narratives	References
0.		Have all stakeholders participated in the pre-activity meeting?	See Project Special Provisions for pre-activity meeting requirements
1.		Have Certificates of Compliance been submitted for epoxy coated reinforcing bars, uncoated reinforcing bars, wire, welded wire fabric? (for epoxy coated reinforcing bars, Certificates of Compliance are required from the coating manufacturer and Certificates of Analysis is required from the coating applicator)	2021 Standard Specifications 106.05 pg. 89 1003-1 pg. 1131
2.		Has the contractor supplied the Engineer with a copy of all shipping documents for reinforcing steel delivered to the site? (each shipping document shows the sizes, lengths and weights of the reinforcing steel separately for each structure)	2021 Standard Specifications 1003-1 pg. 1131
3.		Does reinforcing steel used in concrete conform to the requirements of ASTM A615? (except when used for wire ties or spirals)	2021 Standard Specifications 1003-2 pg. 1131
4.		If ASTM A706 bars are used in place of ASTM A615 bars, has tack welding been permitted and approved in writing by the Engineer?	2021 Standard Specifications 1003-2 pg. 1131
5.		Has the contractor submitted copies of current AWS certification for all welders to the Engineer before any field welding begins? (all field welds must be performed by an AWS certified welder)	2021 Standard Specifications 601-3.02(4) pg. 572 AWS D 1.1-80
6.		Was tack welding of reinforcement approved in writing by the Engineer?	2021 Standard Specifications 605-3.01 pg. 635 1003-2 pg. 1131

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7.		Have bar bending diagrams not shown on the project plans, been approved by the engineer?	2021 Standard Specifications 605-3.01 pg. 635
8.		For sampling reinforcing steel at the fabrication plant or supplier's yard: Were samples taken for epoxy coated or uncoated reinforcement bars No.7 and above? (for rebar #4, #5, and #6 testing is no longer required and is accepted on Certificate of Compliance)	2025 ADOT Materials Quality Assurance Program Appendix C Sampling Guide - Table 5 pg. 37
9.		For sampling reinforcing steel on the project: Was a 7 ft. section of epoxy coated or uncoated No.7 and above, reinforcement bar sampled per shipment? (for rebar #4, #5, and #6 testing is no longer required and is accepted on Certificate of Compliance)	2025 ADOT Materials Quality Assurance Program Appendix C Sampling Guide - Table 5 pg. 37
10.		Are the reinforcing steel mechanical splice samples at least 42 inches long with the splices at mid length?	2021 Standard Specifications 605-3.02 pg. 638
11.		Was a minimum of 2% of the field splices, chosen at random by the engineer, removed and tested to 125% of specified yield strength?	2021 Standard Specifications 605-3.02 pg. 638
12.		Were all reinforcement bars furnished in the full lengths indicated on the project plans or approved shop drawing?	2021 Standard Specifications 605-3.02 pg. 637
13.		Was field bending done without heat?	2021 Standard Specifications 605-3.01 pg. 635
14.		Have bars with cracks or splits at the bends been rejected?	2021 Standard Specification 605-3.01 pg. 635
15.		Grade 40 bars (size No. 7 and smaller) were not bent more than once in the area of the old bend?	2021 Standard Specifications 605-3.01 pg. 635
16.		Grade 40 bars (Number 8 and larger, and all sizes of Grade 60 bars) were not re-bent at the same location of the original bend?	2021 Standard Specifications 605-3.01 pg. 635
17.		Is steel reinforcement being protected at all times from damage?	2021 Standard Specifications 605-3.01 pg. 636
18.		When the reinforcing steel was placed in the work, was it free of dirt, oil, paint and grease? (rust, surface irregularities or mill scale are not cause for rejection provided the weight, dimensions, cross-sectional area and tensile properties of a manually wire brushed test)	2021 Standard Specifications 605-3.01 pg. 636
19.		The quantity (bar count) of reinforcing steel, is in accordance with the project plans?	2025 ADOT Construction Manual 605-3.01 pg. 605-95
20.		Is the reinforcing steel 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)	2021 Standard Specifications 605-3.01 pg. 635
21.		The use of pebbles, broken stone, concrete masonry blocks, brick, metal pipe or wood blocks were not used for spacing or support?	2021 Standard Specifications 605-3.01pg. 635

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22.		Are precast mortar tie-blocks, metal or plastic chairs, spacers, hangers, wires or other approved supports used to insure proper spacing and maintain the specified clearance of the reinforcing steel?	2021 Standard Specifications 605-3.01 pg. 635
23.		Are splices staggered as far as possible?	2021 Standard Specifications 605-3.02 pg. 637
24.		Are splices in accordance with the project plans and only engineer approved mechanical splicers utilized?	2021 Standard Specifications 605-3.02 pg. 637
25.		In slabs and beams, horizontal bars are within 1/4 inch, measured vertically, of the position indicated on the plans?	2021 Standard Specifications 605-3.01 (A) pg. 636
26.		In vertical walls, columns, wings, and similar members, clearance from the forms are within 1/4 inch of the clearance shown on the plans?	2021 Standard Specifications 605-3.01 (B) pg. 636
27.		In slabs or walls, long runs of bars may vary up to two inches in spacing; however, the specified number of bars were placed?	2021 Standard Specifications 605-3.01 (C) pg. 636
28.		For epoxy coated bars: All handling systems have padded contact areas wherever possible; All bundling bands were padded and all bundles were lifted with a strong back, multiple supports or a platform bridge so as to prevent bar to bar abrasion from sags in the bar bundle; The bars or bundles are not dropped or dragged?	2021 Standard Specifications 605-3.03 (B) pg. 638
29.		When epoxy-coated reinforcement is required, is all metal hardware that will remain permanently in the concrete made of or coated with a dielectric material? (chairs, tie-wire, screed rail supports, etc.)	2021 Standard Specifications 605-3.03 (B) pg. 638
30.		Is there damage to the epoxy-coating that exceeds two percent of the surface area of the bar in a one-foot length and the damaged spot is larger than 1/4 by 1/4-inch?	2021 Standard Specifications 605-3.03 (B) pg. 638
31.		Field repair was not allowed on bars which have severely damaged coatings? (defined as a coating which has a total damaged area greater than five percent of the surface area of the reinforcing bar)	2021 Standard Specifications 605-3.03 (B) pg. 638
32.		The material used for field repair was supplied by the epoxy-coating applicator?	2021 Standard Specifications 605-3.03 (B) pg. 638
33.		No concrete was placed until reinforcement in the member has been inspected and approved by the Engineer? (reinforcement which does not conform to the specifications were adjusted or repaired prior to concrete placement)	2021 Standard Specifications 605-3.01 pg. 635
34.		Is the Quantlist Minimum Frequency being followed, once prior to pour?	Construction Bulletin 07-01