

Statement of Special Inspections

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S: F: M: W: S: C: S: C:

General Notes

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Soils and Foundations

Item	Scope	Monitoring: Periodic (P) Continuous (C)
1. S: F:	Inspect soils below footings for adequate bearing capacity and consistency with geotechnical report.	P
	Inspect removal of unsuitable material and preparation of subgrade prior to placement of controlled fill.	C
2. C: S: F:	Perform sieve tests (ASTM D422 & D1140) and modified Proctor tests (ASTM D1557) of each source of fill material.	C
	Inspect placement, lift thickness and compaction of controlled fill.	
	Test density of each lift of fill by nuclear methods (ASTM D2922)	
	Verify extent and slope of fill placement.	
D: F:	Inspect installation of drilled pier foundations. Verify pier diameter, bell diameter, lengths, embedment into bedrock and suitability of end bearing strata.	C

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Cast-in-Place Concrete

Item	Scope	Monitoring: Periodic (P) Continuous (C)
1. M: D:	Review concrete batch tickets and verify compliance with approved mix design. Verify that water added at the site does not exceed that allowed by the mix design. Submit proposed mix design of each class of concrete to Structural Engineer of Record and to inspection and testing firm for review prior to commencement of work.	P
2. M: C:	Review for conformance to contract documents. Submit to Structural Engineer of Record for review.	P
R: I:	Inspect size, spacing, cover, positioning and grade of reinforcing steel. Verify that reinforcing bars are free of form oil or other deleterious materials. Inspect bar laps and mechanical splices. Verify that bars are adequately tied and supported on chairs or bolsters. Submit certified copies of mill test report of reinforcement materials analysis.	P
A: R: d:	Inspect size, positioning and embedment of anchor rods. Inspect concrete placement and consolidation around anchors.	C
5. C:	Inspect placement of concrete. Verify that concrete conveyance and depositing avoids segregation or contamination. Verify that concrete is properly consolidated.	C
S: T: C:	Test concrete compressive strength (ASTM C31 & C39), slump (ASTM C143), air-content (ASTM C231 or C173) and temperature (ASTM C1064). Three concrete test cylinders will be taken for every 75 or less cubic yards of each class of concrete placed, or concrete placed on any given day. One additional test cylinder will be taken during cold weather concreting, cured on job site under same conditions as concrete represents.	C
7. C: d:	Inspect curing, cold weather protection and hot weather protection procedures.	P

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Masonry

Item	Scope	Monitoring: Periodic (P) Continuous (C)
1. M: C:	Certificates for materials used in masonry construction indicating compliance with the contract documents.	P
2. M: M: G:	Inspect proportioning, mixing and retempering of mortar and grout.	C
I: M:	Inspect size, layout, bonding and placement of masonry units.	P
M: G:	Inspect construction of mortar joints including tooling and filling of head joints.	P
5. R: G:	Inspect placement, positioning and lapping of reinforcing steel.	P
	Inspect welding of reinforcing steel.	C
G: O:	Inspect placement and consolidation of grout. Inspect masonry clean-outs for high-lift grouting.	C
7. W: C:	Inspect cold weather protection (temperature below 40°F) and hot weather protection (temperature above 90°F) procedures. Verify that wall cavities are protected against precipitation.	P
E: M: S:	Test compressive strength of mortar and grout cube samples (ASTM C780) Test compressive strength of masonry (f _m) by the unit strength method or by the prism test method. A set of three masonry prisms that are at least 28 days old shall be saw cut from the masonry for each 5,000 square feet. The length, width, and height dimensions of the prisms shall be in accordance with ASTM C1314. The inspector shall observe the preparation of grout specimens, mortar specimens and/or prisms.	P
9. A: T:	Inspect size, location, spacing and embedment of dowels, anchors and ties.	P

Structural Steel

Item	Scope	Monitoring: Periodic (P) Continuous (C)
1. F: C: F: E:	Review shop fabrication and quality control procedures. (Note: Fabricator may be exempt if certified by AISC.)	P
2. M: C:	Review certified mill test reports and identification markings on wide-flange shapes, high-strength bolts, nuts and welding electrodes.	P
B:	Inspect installation and tightening of high-strength bolts. Verify that splines have separated from tension control bolts. Verify proper tightening sequence. Continuous inspection of bolts in slip-critical connections. Bolted connections shall be tested for the snug tight method (25% of the bolted connections shall be inspected for this method.)	P/C
W:	Visually inspect all welds. Inspect pre-heat, post-heat and surface preparation between passes. Verify size and length of fillet welds.	
	Ultrasonic testing of all full-penetration welds.	
	• Complete and partial penetration groove welds shall be inspected continuously.	
	• Multi-pass fillet welds shall be inspected continuously.	
	• Single-pass fillet welds (> 1/8") shall be inspected continuously.	
	• Single-pass fillet welds (< 1/8") shall be inspected periodically.	
	• Floor and deck welds shall be inspected periodically.	
5. S: C:	Inspect size, number, positioning and welding of shear connectors. Inspect studs for full 360 degree flash. Ring test all shear connectors with a 3 lb hammer. Bend test all questionable studs to 15 degrees.	C
S: D:	Inspect steel frame for compliance with structural drawings, including bracing, member configuration and connection details.	P
7. M: D:	Inspect welding and side-lap fastening of metal roof and floor deck.	P

Wood Construction

Item	Scope	Monitoring: Periodic (P) Continuous (C)
1. F: C: F: E:	Inspect shop fabrication and quality control procedures for wood truss plant. Confirm certification of supplier.	P
2. M: G:	Inspect grade stamps on structural lumber for compliance with the contract documents.	P
C:	Verify connection hardware and its installation. Inspect bearing, nails, bolts, hangers or clips, or other devices are tight and otherwise properly installed per the contract documents.	C
F: D:	Inspect members for size and placement for conformance to the SER approval submittals and contract document. Review engineered joist shop drawings. Submit to SER for review.	P
5. D: S:	Inspect thickness and grade of plywood (or OSB), blocking, placement, embedment, size of hold down anchors and the edge and field nailing of the plywood (or OSB) to the framing for conformance to the contract documents.	C
P: W: Tr:	Inspect the fabrication of wood trusses. Bottom chord splices are prohibited in the middle third point of the truss.	P
7. Tr: Br:	Bridging and bracing installed per the approved truss shop drawings.	P

Special Cases

Item	Scope	Monitoring: Periodic (P) Continuous (C)
E: A: C: CM:	Review anchors and product being used for conformance to contract documents. Observe installation for compliance to manufacturer specifications. Perform pull test to 125% of allowable design load per manufacturer specifications. (Minimum of 10% of total anchors, to include a minimum of one of each type, size or embedment.)	C

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No.	Date
Revisions	
Project No. 21538.00	Architect
Drawn	
Checked MDS	
Approved	
Engineer	



CONSTRUCTION DOCUMENTS

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