

LIST OF STRUCTURAL TESTS AND SPECIAL INSPECTIONS

- ☒ Project has a geotechnical report or construction documents require special inspection by a geotechnical engineer.
☐ Project does NOT have and does NOT require a geotechnical report.

	TYPE	BY		TYPE	BY
S1 SOILS - GENERAL			C1 CAST-IN-PLACE CONCRETE		
<input checked="" type="checkbox"/> S1a: Site Preparation	Periodic	GE	<input checked="" type="checkbox"/> C1a: Mix Design	Continuous	SI
S2 COMPACTION AND FILL			<input checked="" type="checkbox"/> C1b: Reinforcing Steel	Test	LOR
<input type="checkbox"/> S2a: Fill Materials	Test	LOR*	<input checked="" type="checkbox"/> C1c: Concrete Material	Test	LOR
<input checked="" type="checkbox"/> S2b: Fill Placement	Continuous	GE*	<input checked="" type="checkbox"/> C1d: Strength Test	Test	LOR
<input checked="" type="checkbox"/> S2c: Compaction	Test	LOR*	<input checked="" type="checkbox"/> C1e: Batch Plant Inspection	Not Required	SI
S3 DRIVEN DEEP FOUNDATIONS (PILES)			C2 PRESTRESSED CONCRETE		
<input type="checkbox"/> S3a: Materials and Members	Continuous	GE*	<input checked="" type="checkbox"/> C2a: Tendons and Anchorage	Test	LOR
<input type="checkbox"/> S3b: Pile Capacity	Test	LOR*	<input checked="" type="checkbox"/> C2b: Tendon Placement	Periodic	SI
<input type="checkbox"/> S3c: Driving Operations	Continuous	GE*	<input type="checkbox"/> C2c: Concrete Strength	Periodic	SI
<input type="checkbox"/> S3d: Pile Installation	Continuous	GE*	<input checked="" type="checkbox"/> C2d: Stressing Operations	Continuous	SI
<input type="checkbox"/> S3e: Specialty Piles	*	*	C3 PRECAST CONCRETE		
S4 CAST-IN-PLACE DEEP FOUNDATIONS (PIERS)			<input checked="" type="checkbox"/> C3a: General Fabrication	Continuous	SI
<input checked="" type="checkbox"/> S4a: Drilling Operations	Continuous	GE*	<input checked="" type="checkbox"/> C3b: General Erection	Periodic	SI*
<input checked="" type="checkbox"/> S4b: Pier Construction	Continuous	GE*	<input type="checkbox"/> C3c: Diaphragm Connections	Continuous	SI
<input checked="" type="checkbox"/> S4c: Bearing Strata	Continuous	GE*	<input type="checkbox"/> C3d: Diaphragm Tolerances	Periodic	SI
S5 RETAINING WALLS			C4 SHOTCRETE		
<input checked="" type="checkbox"/> S5a: Backfill Placement	Continuous	GE*	<input type="checkbox"/> C4a: Placement	Continuous	SI
<input checked="" type="checkbox"/> S5b: Soil Reinf. and Drainage	Continuous	GE*	<input type="checkbox"/> C4b: Shotcrete Material	Test	LOR
<input type="checkbox"/> S5c: Segmental Retaining Walls	Continuous	GE*	C5 POST-INSTALLED ANCHORS		
S6 OTHER SOILS			<input checked="" type="checkbox"/> C5a: Inspection	See notes	SI*
<input type="checkbox"/> S6a: Soil Improvement Test	Test	GE*	<input checked="" type="checkbox"/> C5b: Test	Test	LOR
<input type="checkbox"/> S6b: Soil Improvement Inspection	Continuous	GE*	C6 OTHER CONCRETE		
<input type="checkbox"/> S6c: Not used.	N/A	N/A	<input type="checkbox"/> C6a: Not used.	N/A	N/A
<input type="checkbox"/> S6d: Not used.	N/A	N/A	<input type="checkbox"/> C6b: Not used.	N/A	N/A
<input type="checkbox"/> S6e: Not used.	N/A	N/A	<input type="checkbox"/> C6c: Not used.	N/A	N/A
<input type="checkbox"/> S6f: Not used.	N/A	N/A	<input type="checkbox"/> C6d: Not used.	N/A	N/A
<input type="checkbox"/> S6g: Not used.	N/A	N/A	<input type="checkbox"/> C6e: Not used.	N/A	N/A
<input type="checkbox"/> S6h: Not used.	N/A	N/A	<input type="checkbox"/> C6f: Not used.	N/A	N/A
<input type="checkbox"/> S6i: Not used.	N/A	N/A	<input type="checkbox"/> C6g: Not used.	N/A	N/A
<input type="checkbox"/> S6j: Not used.	N/A	N/A	<input type="checkbox"/> C6h: Not used.	N/A	N/A
<input type="checkbox"/> S6k: Not used.	N/A	N/A	<input type="checkbox"/> C6i: Not used.	N/A	N/A
<input type="checkbox"/> S6l: Not used.	N/A	N/A	<input type="checkbox"/> C6k: Not used.	N/A	N/A
<input type="checkbox"/> S6m: Not used.	N/A	N/A	<input type="checkbox"/> C6l: Not used.	N/A	N/A
<input type="checkbox"/> S6n: Not used.	N/A	N/A	Not used.		

* See Appendix for additional information.

* See Appendix for additional information.

Project Name: **Polytechnic High School**
School District: **Long Beach USD**

Application No.: **03-125644** Increment:
File No.: **19-H15**

LIST OF STRUCTURAL TESTS AND SPECIAL INSPECTIONS

	TYPE	BY		TYPE	BY
M1 STRUCTURAL MASONRY f'm PSI:			S/A1 STEEL AND ALUMINUM		
<input type="checkbox"/> M1a: Mill Certificates - Reinf.	Periodic	SI*	<input checked="" type="checkbox"/> S/A1a: Material Identification	Periodic	*
<input type="checkbox"/> M1b: Material Certificates	Test	LOR	<input checked="" type="checkbox"/> S/A1b: Unidentified Material	Test	LOR
<input type="checkbox"/> M1c: Strength Test	Test	LOR	<input checked="" type="checkbox"/> S/A1c: Steel Fabrication	Periodic	SI
<input type="checkbox"/> M1d: Mortar Proportions	Periodic	SI	<input type="checkbox"/> S/A1d: Buckling Restrained Brace	Test*	LOR
<input type="checkbox"/> M1e: Grout Proportions	Periodic	SI	S/A2 HIGH-STRENGTH BOLTS		
<input type="checkbox"/> M1f: Batch Plant Inspection		SI	<input type="checkbox"/> S/A2a: Product Verification	Periodic	SI
<input type="checkbox"/> M1g: Core Tests	Test	LOR	<input type="checkbox"/> S/A2b: Bolts, Nuts, and Washers	Test	LOR
<input type="checkbox"/> M1h: Prisms	Continuous	SI	<input type="checkbox"/> S/A2c: Snug Tight	Periodic	SI
<input type="checkbox"/> M1i: Dowels and Supports	Periodic	SI	<input type="checkbox"/> S/A2d: Pretensioned / Slip-Critical	*	SI
<input type="checkbox"/> M1j: Reinforcement and Members	Periodic	SI	S/A3 WELDING		
<input type="checkbox"/> M1k: Reinforcement Placement	Continuous	SI	<input checked="" type="checkbox"/> S/A3a: Weld Material	Periodic	SI
<input type="checkbox"/> M1l: Grout Placement	Continuous	SI	<input checked="" type="checkbox"/> S/A3b: Certificate of Compliance	Periodic	SI
<input type="checkbox"/> M1m: Unit Layup and Joints	Periodic	SI*	<input checked="" type="checkbox"/> S/A3c: WPS and Qualifications	Periodic	SI
<input type="checkbox"/> M1n: Cold/Hot Weather Work	Periodic	SI	S/A4 SHOP WELDING		
<input type="checkbox"/> M1o: Anchors and Embeds	Continuous	SI	<input checked="" type="checkbox"/> S/A4a: Weld Category A	Continuous	SI
<input type="checkbox"/> M1p: Grout Cavity	Continuous	SI	<input checked="" type="checkbox"/> S/A4b: Weld Category B	Periodic	SI
M2 VENEER OR GLASS BLOCK PARTITIONS			<input type="checkbox"/> S/A4c: Stairs and Railing	Periodic	SI
<input type="checkbox"/> M2a: Mortar and Grout	Periodic	SI	<input type="checkbox"/> S/A4d: Reinf. Steel Weldability	Periodic	SI
<input type="checkbox"/> M2b: Unit Layup and Joints	Periodic	SI	<input type="checkbox"/> S/A4e: Reinforcing Steel	Continuous	SI
<input type="checkbox"/> M2c: Wires and Connector	Periodic	SI	S/A5 FIELD WELDING		
<input type="checkbox"/> M2d: Anchors and Embeds	Periodic	SI	<input checked="" type="checkbox"/> S/A5a: Weld Category A	Continuous	SI
<input type="checkbox"/> M2e: Cold/Hot Weather Work	Periodic	SI*	<input checked="" type="checkbox"/> S/A5b: Weld Category B	Periodic	SI
<input type="checkbox"/> M2f: Adhered Veneer Bond	Test	LOR	<input type="checkbox"/> S/A5c: End Welded Studs	Periodic	SI
M3 POST-INSTALLED ANCHORS			<input type="checkbox"/> S/A5d: Deck Welds	Periodic	SI
<input type="checkbox"/> M3a: Inspection	Varies*	SI*	<input type="checkbox"/> S/A5e: Cold-Formed Steel	Periodic	SI
<input type="checkbox"/> M3b: Test	Test	LOR	<input type="checkbox"/> S/A5f: Stairs and Railing	Periodic	SI
M4 OTHER MASONRY			<input type="checkbox"/> S/A5g: Reinf. Steel Weldability	Periodic	SI
<input type="checkbox"/> M4a: Not used.	N/A	N/A	<input type="checkbox"/> S/A5h: Reinforcing Steel	Continuous	SI
<input type="checkbox"/> M4b: Not used.	N/A	N/A	S/A6 NONDESTRUCTIVE TESTING		
<input type="checkbox"/> M4c: Not used.	N/A	N/A	<input type="checkbox"/> S/A6a: Ultrasonic	Test	LOR
<input type="checkbox"/> M4d: Not used.	N/A	N/A	<input type="checkbox"/> S/A6b: Magnetic Particle	Test	LOR
<input type="checkbox"/> M4e: Not used.	N/A	N/A	<input type="checkbox"/> S/A6c: Not used.	N/A	N/A
<input type="checkbox"/> M4f: Not used.	N/A	N/A	<input type="checkbox"/> S/A6d: Not used.	N/A	N/A
<input type="checkbox"/> M4g: Not used.	N/A	N/A	<input type="checkbox"/> S/A6e: Not used.	N/A	N/A
<input type="checkbox"/> M4h: Not used.	N/A	N/A	S/A7 STEEL JOISTS AND TRUSSES		
<input type="checkbox"/> M4i: Not used.	N/A	N/A	<input type="checkbox"/> S/A7a: Fabrication	Continuous	SI
<input type="checkbox"/> M4j: Not used.	N/A	N/A	S/A8 SPRAYED FIRE-RESISTANT MATERIALS		
<input type="checkbox"/> M4k: Not used.			<input type="checkbox"/> S/A8a: Surface and Installation	Periodic	SI
<input type="checkbox"/> M4l: Not used.			<input type="checkbox"/> S/A8b: Density	Test	LOR
<input type="checkbox"/> M4m: Not used.			<input type="checkbox"/> S/A8c: Bond: Adhesion/Cohesion	Test	LOR
* See Appendix for additional information.			* See Appendix for additional information.		

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	TYPE	BY		TYPE	BY
S/A9 ANCHOR BOLTS AND ANCHOR RODS			X OTHER		
<input type="checkbox"/> S/A9a: Anchor Rods and Bolts	Test	LOR	<input type="checkbox"/> X01: Product Load Test*	Test	LOR
<input type="checkbox"/> S/A9b: Other Threaded Rods	Test	LOR	<input type="checkbox"/> X02: Non-HSB Installation Torque	Continuous	SI*
S/A10 STORAGE RACK SYSTEMS			<input checked="" type="checkbox"/> X03: Overlap Jacking	Continuous	PI
<input type="checkbox"/> S/A10a: Material Verification	Periodic	SI	<input type="checkbox"/> X04: Not used.	N/A	N/A
<input type="checkbox"/> S/A10b: Fabrication	Periodic	SI	<input type="checkbox"/> X05: Not used.	N/A	N/A
<input type="checkbox"/> S/A10c: Anchorage	Periodic	SI	<input type="checkbox"/> X06: Not used.	N/A	N/A
<input type="checkbox"/> S/A10d: Completed System	Periodic	SI*	<input type="checkbox"/> X07: Not used.	N/A	N/A
S/A11 OTHER STEEL AND ALUMINUM			<input type="checkbox"/> X08: Not used.	N/A	N/A
<input type="checkbox"/> S/A11a: Not used.	N/A	N/A	<input type="checkbox"/> X09: Not used.	N/A	N/A
<input type="checkbox"/> S/A11b: Not used.	N/A	N/A	<input type="checkbox"/> X10: Not used.	N/A	N/A
<input type="checkbox"/> S/A11c: Not used.	N/A	N/A	EXEMPTIONS Those items identified on the DSA-approved construction documents with a note indicating they are not part of the DSA approval or those items checked below are exempt from test and special inspection requirements. The project inspector shall verify all construction complies with the approved construction documents. <input type="checkbox"/> Soils: Eligible shallow foundation elements**. <input type="checkbox"/> Soils: Eligible deep foundation elements - type 1**. <input type="checkbox"/> Soils: Eligible deep foundation elements - type 2**. <input type="checkbox"/> Concrete/Masonry: Eligible post-installed anchors**. <input checked="" type="checkbox"/> Concrete: Batch plant inspection for items listed in and complying with CBC Section 1705A.3.3.2. <input type="checkbox"/> Concrete: Epoxy shear dowels in nonstructural slab-on-grade per CBC Section 1910A.5.4, Exception #4. <input type="checkbox"/> Concrete/Masonry: Reinforcing bar testing for items listed in and complying with CBC Section 1910A.2. <input type="checkbox"/> Masonry: Freestanding site walls and retaining walls per DSA IR 21-1. <input type="checkbox"/> Concrete: Eligible precast elements**. <input type="checkbox"/> Welding: Eligible fences and gates**. <input type="checkbox"/> Welding: Eligible railing and ramps**. <input type="checkbox"/> Welding: Eligible interior cold-formed steel framing**. <input type="checkbox"/> Welding: Eligible equipment curbs**. <input type="checkbox"/> Welding: Eligible components supporting MEP distribution systems**. <input type="checkbox"/> Welding: Eligible mounts and recreational equipment**. <input type="checkbox"/> Welding: Eligible nonstructural components**.		
<input type="checkbox"/> S/A11d: Not used.	N/A	N/A			
<input type="checkbox"/> S/A11e: Not used.	N/A	N/A			
<input type="checkbox"/> S/A11f: Not used.	N/A	N/A			
<input type="checkbox"/> S/A11g: Not used.	N/A	N/A			
<input type="checkbox"/> S/A11h: Not used.	N/A	N/A			
<input type="checkbox"/> S/A11i: Not used.	N/A	N/A			
<input type="checkbox"/> S/A11j: Not used.	N/A	N/A			
W1 PREFABRICATED WOOD TRUSSES					
<input type="checkbox"/> W1a: Open Web Truss Fabrication	Continuous	SI			
<input type="checkbox"/> W1b: Metal Plate Truss Fabrication	Continuous	SI			
W2 MANUFACTURED WOOD ELEMENTS					
<input type="checkbox"/> W2a: GL Timber Fabrication	Continuous	SI			
<input type="checkbox"/> W2b: CLT Fabrication	Continuous	SI			
<input type="checkbox"/> W2c: Mass Timber Erection	Periodic	SI			
<input type="checkbox"/> W2d: Connections Type A	Periodic	SI			
<input type="checkbox"/> W2e: Connections Type B	Continuous	SI			
<input type="checkbox"/> W2f: Sealants	Periodic	SI			
W3 OTHER WOOD					
<input type="checkbox"/> W3a: Not used.	N/A	N/A			
<input type="checkbox"/> W3b: Not used.	N/A	N/A			
<input type="checkbox"/> W3c: Not used.	N/A	N/A			
<input type="checkbox"/> W3d: Not used.	N/A	N/A			
<input type="checkbox"/> W3e: Not used.	N/A	N/A			
<input type="checkbox"/> W3f: Not used.	N/A	N/A			
<input type="checkbox"/> W3g: Not used.	N/A	N/A			
<input type="checkbox"/> W3h: Not used.	N/A	N/A			
* See Appendix for additional information.			** See Appendix for eligibility requirements.		

Project Name: **Polytechnic High School**
School District: **Long Beach USD**

Application No.: **03-125644** Increment:
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LIST OF STRUCTURAL TESTS AND SPECIAL INSPECTIONS

IMPORTANT: This form is only a summary list of structural tests and some of the special inspections required for the project. Any items indicated on the approved construction documents with a note stating that the items are not part of the DSA approval are not considered in this form. Generally, the structural tests and special inspections noted on this form are those that will be performed by the Geotechnical Engineer of Record, Laboratory of Record, or Special Inspector. The actual complete test and inspection program must be performed as detailed on the DSA approved documents. The exemption appendix at the end of this form identifies work NOT subject to DSA requirements for special inspection or structural testing. The project inspector is responsible for providing inspection of all facets of construction, including but not limited to, special inspections not listed on this form such as structural wood framing, high-load wood diaphragms, cold-formed steel framing, anchorage of nonstructural components, etc., per Title 24, Part 2, Chapter 17A.

Legend to TYPE and BY Columns:

Continuous - Indicates continuous special inspection is required.

Periodic - Indicates periodic special inspection is required.

Test - Indicates a test is required.

GE - Indicates special inspection shall be performed by a registered geotechnical engineer or his/her authorized representative, usually associated with the Laboratory of Record.

LOR - Indicates test or special inspection shall be performed by a testing laboratory accepted in the DSA Laboratory Evaluation and Acceptance (LEA) Program (i.e., the Laboratory of Record for the project). See CAC Section 4-335.

PI - Indicates special inspection may be performed by a project inspector when specifically approved by DSA.

SI - Indicates special inspection shall be performed by an appropriately qualified/approved special inspector.

Required Verified Reports:

1. Soils Testing and Inspection: Form DSA 293
2. Structural Testing and Inspection: Form DSA 291
3. Prestressed Concrete Inspection: Form DSA 291 or DSA 292
4. Precast Concrete Inspection: Form DSA 291 or DSA 292
5. Post-installed Anchors: Form DSA 291 or DSA 292
6. Shop Welding Inspection: Form DSA 291 or DSA 292
7. Field Welding Inspection: Form DSA 291 or Form DSA 292

Verified reports are required on the following DSA forms:

DSA 291: Laboratory of Record Verified Report

DSA 292: Special Inspectors Employed Directly by the District Verified Report

DSA 293: Geotechnical Verified Report

Note: To facilitate DSA electronic mark-ups and identification stamp application, DSA recommends against using secured electronic or digital signatures.

Name of Design Professional in General Responsible Charge:

Name of Structural Engineer of Record (when applicable):

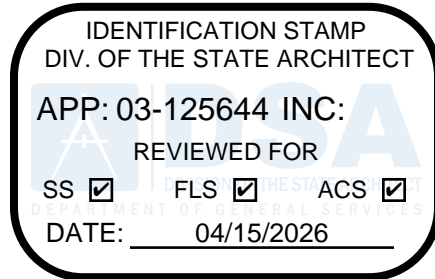
Matt Kani

Signature of Architect or Structural Engineer: **Date:**

11/21/2025

Project Name: Polytechnic High School

School District: Long Beach USD

DSA STAMP

Application No.: **03-125644** Increment:
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Appendix: LIST OF STRUCTURAL TESTS AND SPECIAL INSPECTIONS

NOTE: Undefined sections and table references found in this appendix are from the CBC, or California Building Code

S1. GENERAL:	
Test or Special Inspection	Code References and Notes
S1a: Site Preparation Verify that: • Site has been prepared properly prior to placement of controlled fill and/or excavations for foundations. • Foundation excavations are extended to proper depth and have reached proper material. • Materials below footings are adequate to achieve the design bearing capacity.	* By geotechnical engineer or his or her qualified representative. (See Appendix (end of this form) form for exemptions.)
S2. SOIL COMPACTION AND FILL:	
Test or Special Inspection	Code References and Notes
S2a: Fill Materials Perform classification and testing of fill materials.	* Under the supervision of the geotechnical engineer.
S2b: Fill Placement Verify use of proper materials, densities and inspect lift thicknesses, placement and compaction during placement of fill.	* By geotechnical engineer or his or her qualified representative. (Refer to specific items identified in the Appendix (end of this form) form for exemptions where soils SI and testing may be conducted under the supervision of a geotechnical engineer or LOR's engineering manager. In such cases, the LOR's form DSA 291 shall satisfy the soil SI and test reporting requirements for the exempt items.)
S2c: Compaction Compaction testing.	* Under the supervision of the geotechnical engineer. (Refer to specific items identified in the Appendix (end of this form) for exemptions where soils testing may be conducted under the supervision of a geotechnical engineer or LOR's engineering manager. In such cases, the LOR's form DSA 291 shall satisfy the soil test reporting requirements for the exempt items.)
S3. DRIVEN DEEP FOUNDATIONS (PILES):	
Test or Special Inspection	Code References and Notes
S3a: Materials and Members Verify pile materials, sizes and lengths comply with the requirements.	* By geotechnical engineer or his or her qualified representative.
S3b: Pile Capacity Determine capacities of test piles and conduct additional load tests as required.	* Under the supervision of the geotechnical engineer.
S3c: Driving Operations Inspect driving operations and maintain complete and accurate records for each pile.	* By geotechnical engineer or his or her qualified representative.

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S3d: Pile Installation Verify locations of piles and their plumbness, confirm type and size of hammer, record number of blows per foot of penetration, determine required penetrations to achieve design capacity, record tip and butt elevations and record any pile damage.	* By geotechnical engineer or his or her qualified representative.
S3e: Specialty Piles For specialty piles, perform additional inspections as determined by the registered design professional in responsible charge.	* As defined on drawings or specifications.

S4. CAST-IN-PLACE DEEP FOUNDATIONS (PIERS):	
Test or Special Inspection	Code References and Note
S4a: Drilling Operations Inspect drilling operations and maintain complete and accurate records for each pier.	* By geotechnical engineer or his or her qualified representative. (See Appendix (end of this form) for exemptions.)
S4b: Pier Construction Verify pier locations, diameters, plumbness, bell diameters (if applicable), lengths and embedment into bedrock (if applicable); record concrete or grout volumes.	* By geotechnical engineer or his or her qualified representative. (See Appendix (end of this form) for exemptions.)
S4c: Bearing Strata Confirm adequate end strata bearing capacity.	* By geotechnical engineer or his or her qualified representative. (See Appendix (end of this form) for exemptions.)

S5. RETAINING WALLS:	
Test or Special Inspection	Code References and Notes
S5a: Backfill Placement Placement, compaction and inspection of backfill.	1705A.6.1. * By geotechnical engineer or his or her qualified representative. (See section S2 above).
S5b: Soil Reinf. and Drainage Placement of soil reinforcement and/or drainage devices.	* By geotechnical engineer or his or her qualified representative.
S5c: Segmental Retaining Walls Segmental retaining walls; inspect placement of units, dowels, connectors, etc.	* By geotechnical engineer or his or her qualified representative. See DSA IR 18-2.

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S6 OTHER SOILS	
Test or Special Inspection	Code References and Notes
S6a Soil Improvements	Submit a comprehensive report documenting final soil improvements constructed, construction observation and the results of the confirmation testing and analysis to CGS (California Geological Survey) for final acceptance. * By geotechnical engineer or his or her qualified representative.
S6b Inspection of Soil Improvements	* By geotechnical engineer or his or her qualified representative.
S6c. Not used.	N/A
S6d. Not used.	N/A
S6e. Not used.	N/A
S6f. Not used.	N/A
S6g. Not used.	N/A
S6h. Not used.	N/A
S6i. Not used.	N/A
S6j. Not used.	N/A
S6k. Not used.	N/A
S6l. Not used.	N/A
S6m. Not used.	N/A
S6n. Not used.	N/A

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C1. CAST-IN-PLACE CONCRETE	
Test or Special Inspection	Code References and Notes
C1a: Mix Design Verify use of required design mix.	Table 1705A.3 Item 5, 1903A.5, 1903A.7, 1904A.1, 1904A.2, 1910A.1 ; ACI 318 Ch. 19, 26.4, 26.13.3.2.
C1b: Reinforcing Steel Identify, sample, and test reinforcing steel.	Table 1705A.3 Item 1, 1705A.3.9, 1908A.1, 1910A.2; ACI 318 Ch. 20 and Sections 25.2, 25.3, 25.5.1, 26.6.1; DSA IR 17-10 and BU 24-02. (See Appendix (end of this form) for exemptions.)
C1c: Concrete Material During concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	Table 1705A.3 Item 6, 1705A.3.9, 1905A.1.17; ASTM C31, ASTM C172; ACI 318 Sections 26.4, 26.5 & 26.12.
C1d: Strength Test Test concrete (f'_c).	1905A.1.17; ACI 318 Section 26.12.
C1e: Batch Plant Inspection Batch plant inspection: Continuous	Default of "Continuous" per 1705A.3.3. If approved by DSA, batch plant inspection may be reduced to "Periodic" subject to requirements in Section 1705A.3.3.1, or not required per 1705A.3.3.2. See IR 17-13. (See Appendix (end of this form) for exemptions.)

C2. PRESTRESSED / POST-TENSIONED CONCRETE (IN ADDITION TO SECTION C1):	
Test or Special Inspection	Code References and Notes
C2a: Tendons and Anchorage Sample and test prestressing tendons and anchorages.	1705A.3.4 Table 1705A.3 Item 1, 1910A.3; ACI 318 Ch. 20 and Sections 25.2, 26.6.1.
C2b: Tendon Placement Inspect placement of prestressing tendons.	1705A.3.4, Table 1705A.3 Items 1 & 9; ACI 318 Ch. 20 and Sections 25.2, 26.6.1-26.6.3.
C2c: Concrete Strength Verify in-situ concrete strength prior to stressing of post-tensioning tendons.	Table 1705A.3 Item 13; ACI 318 Sections 26.10.2, 26.11.2, 26.13.3.3. Special inspector to verify specified concrete strength test prior to stressing.
C2d: Stressing Operations Inspect application of post-tensioning or prestressing forces and grouting of bonded prestressing tendons.	1705A.3.4, Table 1705A.3 Item 9; ACI 318 Sections 26.10.2, 26.13.1, 26.13.3.2.

C3. PRECAST CONCRETE (IN ADDITION TO SECTION C1):	
Test or Special Inspection	Code References and Notes
C3a: General Fabrication 1. Inspect fabrication of precast concrete members. * 2. Inspect reinforcement of the following precast concrete elements or system(s): a. special moment frames. b. boundary elements of special structural walls. c. coupling beams.	1705A.3 Item 1, 7. See Appendix for exemptions. *May be periodic where fabrication occurs in a PCI-certified plant. For underground structures, NPCA plant certification is acceptable. PCI MNL-116-21; PCI MNL-117-13; NPCA Quality Control Manual (QCM) 17th Edition. See IR A-15.

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C3b: General Erection Inspect erection of precast concrete members.	Table 1705A.3 Item 10.
C3c: Diaphragm Connections For precast concrete diaphragm connections or reinforcement at joints classified as moderate or high deformability elements (MDE or HDE) in structures assigned to Seismic Design Category D, E or F, inspect such connections and reinforcement in the field for: <ol style="list-style-type: none"> 1. Installation of the embedded parts. 2. Completion of the continuity of reinforcement across joints. 3. Completion of connections in the field. 	Table 1705A.3 Item 11.
C3d: Diaphragm Tolerances Inspect installation tolerances of precast concrete diaphragm connections for compliance with ACI 550.5.	Table 1705A.3 Item 12

C4. SHOTCRETE (IN ADDITION TO SECTION C1):	
Test or Special Inspection	Code References and Notes
C4a: Placement Inspect shotcrete placement for proper application techniques.	1705A.3.9, Table 1705A.3 Item 7, 1908A.1, 1908A.2, 1908A.3. See ACI 506.2 Section 3.4, and ACI 506R.
C4b: Shotcrete Material Sample and test shotcrete (f'_c).	1908A.2 and 1705A.3.9.

C5. POST-INSTALLED ANCHORS:	
Test or Special Inspection	Code References and Notes
C5a: Inspection Inspect installation of post-installed anchors	1617A.1.19, Table 1705A.3 Item 4a (Continuous) & 4b (Periodic), 1705A.3.8 (See Appendix (end of this form) for exemptions). ACI 318 Sections 26.7.2, 26.13.1, 26.13.3.2, 26.13.3.3. * May be performed by the project inspector when specifically approved by DSA.
C5b: Test Test post-installed anchors.	1910A.5. (See Appendix (end of this form) for exemptions.)

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C6. OTHER CONCRETE:	
Test or Special Inspection	Code References and Notes
C6a. Not used.	N/A
C6b. Not used.	N/A
C6c. Not used.	N/A
C6d. Not used.	N/A
C6e. Not used.	N/A
C6f. Not used.	N/A
C6g. Not used.	N/A
C6h. Not used.	N/A
C6i. Not used.	N/A
C6j. Not used.	N/A
C6k. Not used.	Not used.
C6l. Not used.	Not used.

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M1. STRUCTURAL MASONRY:	
Test or Special Inspection	Code References and Notes
M1a: Mill Certificates - Reinf. Mill certificate indicates compliance with requirements for reinforcement, anchors, ties, fasteners and metal accessories. See item C1(b) for identification, sampling and testing of reinforcing steel.	2103A.4; TMS 602-16 Article 1.5B.2 & 2.4. * To be performed by qualified LOR representative. Applicable testing by LOR. See IR 17-10 for unidentified reinforcing steel.
M1b: Material Certificates Producer's certificate of compliance for masonry units, mortar and grout materials.	1705A.4, 2103A.2, 2103A.3, 2103A.5; TMS 602 Articles 1.5B.2, 2.1, 2.2, 2.6A and 2.6B, and Table 6 footnote 3.
M1c: Strength Test Test masonry (f_m).	1705A.4. For Unit Strength: 2105A.3; TMS 602 Articles 1.4B.2, 1.5B.1 & 1.5B.2. For Prism (required when $f_m > 2000$ psi): 2105A.2; TMS 602 Articles 1.4B.3, 1.4B.4, 1.5B.1 & 1.5B.2.
M1d: Mortar Proportions Verify proportions or properties of site-prepared, premixed or preblended mortar.	TMS 602, Table 3 (row 5), Table 4 Item 1a. DSA PR 20-01. (See Appendix (end of this form) for exemptions.)
M1e: Grout Proportions Verify proportions or properties of site-prepared, premixed or preblended grout.	TMS 602, Table 3 (row 5), Table 4 Item 2d. (See Appendix (end of this form) for exemptions.)
M1f: Batch Plant Inspection Batch plant inspection: Periodic	Default of ' Continuous ' per 1705A.3.3 . If approved by DSA, batch plant inspection may be reduced to ' Periodic ' subject to requirements in Section 1705A.3.3.1 , or not required per 1705A.3.3.2 . See IR 17-13. Refer to TMS 602 Table 3 and Table 4, Item #3a. (See Appendix (end of this form) for exemptions.)
M1g: Core Tests Test core-drilled samples.	2105A.4. (See Appendix (end of this form) for exemptions.)
M1h: Prisms Inspect preparation of prisms.	TMS 602 Articles 1.4.B.3 & 1.4.B.4 & Table 4 Item 4.
M1i: Dowels and Supports Verify size, location and condition of all dowels, construction supporting masonry, etc.	
M1j: Reinforcement and Members Verify size, grade and type of reinforcement, connectors, and anchor bolts. Verify size and location of structural members.	TMS 602 Table 4, Items 1c & 3c.
M1k: Reinforcement Placement Inspect placement of reinforcement, anchor bolts, and connectors.	TMS 602 Table 4 Item 2c.
M1l: Grout Placement Placement, consolidation, and reconsolidation of grout.	TMS 602 Table 4 Item 3h.
M1m: Unit Layup and Joints Inspect placement of masonry units and construction of mortar joints.	TMS 602 Table 4 Item 3b.
M1n: Cold/Hot Weather Work Verify preparation, construction and protection of masonry during cold weather (temperature below 40° F) or hot weather (temperature above 90° F).	TMS 602 Table 4 Item 3f. * May be performed by the project inspector when specifically approved by DSA.
M1o: Anchors and Embeds Inspect type, size and location of anchors and all other items to be embedded in masonry including other details of anchorage of masonry	TMS 602 Table 4 Item 3d.

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to structural members, frames and other construction.	
M1p: Grout Cavity Inspect grout space, including mortar protrusions, prior to placement of grout.	TMS 602 Table 4 Item 2a.

M2. VENEER OR GLASS BLOCK PARTITIONS:	
Test or Special Inspection	Code References and Notes
M2a: Mortar and Grout Verify proportions of site prepared mortar and grout and/or verify certification of premixed mortar.	TMS 602 Table 3 (row 5) and Table 4 Items 1a & 2d.
M2b: Unit Layup and Joints Inspect placement of units and construction of mortar joints.	TMS 602 Table 4 Item 3b.
M2c: Wires and Connector Inspect placement of wire, connectors and anchors	TMS 602 Table 4 Item 2c.
M2d: Anchors and Embeds Inspect type, size and location of anchors and all other items to be embedded in masonry veneer including details of anchorage of masonry to veneer backing, frames and other construction.	TMS 602 Table 4 Item 3d.
M2e: Cold/Hot Weather Work Verify preparation, construction and protection of masonry during cold weather (temperature below 40° F) or hot weather (above 90° F).	TMS 602 Table 4 Item 3f. * May be performed by the project inspector when specifically approved by DSA.
M2f: Adhered Veneer Bond Test adhered veneer bond strength.	1410.2.1 (Field-constructed mock-up using specified unit, mortar, and substrate, laboratory tested in accordance with ASTM C1823).

M3. POST-INSTALLED ANCHORS IN MASONRY:	
Test or Special Inspection	Code References and Notes
M3a: Inspection Inspect installation of post-installed anchors	1617A.1.19, 1705A.4, Table 1705A.3 Item 4a (Continuous) & 4b (Periodic); ACI 318 Section 26.13. * May be performed by the project inspector when specifically approved by DSA. (See Appendix (end of this form) for exemptions.)
M3b: Test Test post-installed anchors.	1705A.4, 1910A.5. (See Appendix (end of this form) for exemptions.)

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M4. OTHER MASONRY:	
Test or Special Inspection	Code References and Notes
M4a. Not used.	N/A
M4b. Not used.	N/A
M4c. Not used.	N/A
M4d. Not used.	N/A
M4e. Not used.	N/A
M4f. Not used.	N/A
M4g. Not used.	N/A
M4h. Not used.	N/A
M4i. Not used.	N/A
M4j. Not used.	N/A
M4k. Not used.	Not used.
M4l. Not used.	Not used.

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S/A1. STRUCTURAL STEEL, COLD-FORMED STEEL AND ALUMINUM USED FOR STRUCTURAL PURPOSES	
Test or Special Inspection	Code References and Notes
S/A1a: Material Identification Verify identification of all materials and: • Mill certificates indicate material properties that comply with requirements. • Material sizes, types and grades comply with requirements.	Table 1705A.2.1 Item 3a–3c. 2202A.1; AISI S100 Section A3.1 & A3.2, AISI S240 Section A3 & A5, AISI S220 Sections A4 & A6. *By special inspector or qualified technician when performed off-site.
S/A1b: Unidentified Material Test unidentified materials	2202A.1.
S/A1c: Steel Fabrication Verify and document steel fabrication per DSA- approved construction documents.	Not applicable to cold-formed steel light-frame construction, except for trusses (1705A.2.4).
S/A1d: Buckling Restrained Brace Verify and document steel fabrication per DSA-approved construction documents.	Testing and special inspections in accordance with IR 22-4. For DSA accepted fabrication shops, BRB manufacturer's Certificate of Compliance in lieu of testing and special inspections. See IR 22-4.

S/A2. HIGH-STRENGTH BOLTS:	
Test or Special Inspection	Code References and Notes
S/A2a: Product Verification Verify identification markings and manufacturer's certificates of compliance conform to ASTM standards specified in the DSA-approved documents.	Table 1705A.2.1 Items 1a & 1b, 2202A.1; AISC 360 Section A3.3, J3.1, and N3.2; RCSC Section 1.5 & 2.1; DSA IR 17-8 & DSA IR 17-9.
S/A2b: Bolts, Nuts, and Washers Test high-strength bolts, nuts and washers.	Table 1705A.2.1 Item 1c, 2213A.1; RCSC Section 7.2; DSA IR 17-8.
S/A2c: Snug Tight Bearing-type ("snug tight") connections.	Table 1705A.2.1 Item 2a, 1705A.2.6, 2204A.2; AISC 360 J3.1, J3.2, M2.5 & N5.6; RCSC Section 9.1; DSA IR 17-9.
S/A2d: Pretensioned / Slip-Critical Pretensioned and slip-critical connections.	Table 1705A.2.1 Items 2b & 2c, 1705A.2.6, 2204A.2; AISC 360 J3.1, J3.2, M2.5 & N5.6; RCSC Sections 9.2 & 9.3; DSA IR 17-9 **"Continuous" or "Periodic" depends on the tightening method used.

S/A3. WELDING:	
Test or Special Inspection	Code References and Notes
S/A3a: Weld Material Verify weld filler material identification markings per AWS designation listed on the DSA-approved documents and the WPS.	1705A.2.5, Table 1705A.2.1 Items 4 & 5; AWS D1.1 and AWS D1.8 for structural steel; AWS D1.2 for Aluminum; AWS D1.3 for cold-formed steel; AWS D1.4 for reinforcing steel; DSA IR 17-3.
S/A3b: Certificate of Compliance Verify weld filler material manufacturer's certificate of compliance.	DSA IR 17-3.
S/A3c: WPS and Qualifications Verify WPS, welder qualifications and equipment.	DSA IR 17-3.

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S/A4. SHOP WELDING (IN ADDITION TO SECTION S/A3):	
Test or Special Inspection	Code References and Notes
S/A4a: Weld Category A Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds.	Table 1705A.2.1 Items 5a.1–4 ; AISC 360 (and AISC 341 as applicable); DSA IR 17-3.
S/A4b: Weld Category B Inspect single-pass fillet welds ≤ 5/16", floor and roof deck welds.	1705A.2.2, Table 1705A.2.1 Items 5a.5 & 5a.6 ; AISC 360 (and AISC 341 as applicable); DSA IR 17-3.
S/A4c: Stairs and Railing Inspect welding of stairs and railing systems.	1705A.2.1 ; AISC 360 (and AISC 341 as applicable); AWS D1.1 & D1.3; DSA IR 17-3.
S/A4d: Reinf. Steel Weldability Verification of reinforcing steel weldability other than ASTM A706.	1705A.3.1 ; AWS D1.4; DSA IR 17-3. Verify carbon equivalent reported on mill certificates.
S/A4e: Reinforcing Steel Inspect welding of reinforcing steel.	Table 1705A.2.1 Item 5b, 1705A.3.1, Table 1705A.3 Item 2, 1903A.8 ; AWS D1.4; DSA IR 17-3.
S/A5. FIELD WELDING (IN ADDITION TO SECTION S/A3):	
Test or Special Inspection	Code References and Notes
S/A5a: Weld Category A Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds.	Table 1705A.2.1 Items 5a.1–4 ; AISC 360 (AISC 341 as applicable); DSA IR 17-3.
S/A5b: Weld Category B Inspect single-pass fillet welds ≤ 5/16".	Table 1705A.2.1 Item 5a.5 ; AISC 360 (AISC 341 as applicable); DSA IR 17-3.
S/A5c: End Welded Studs Inspect end-welded studs (ASTM A-108) installation (including bend test).	2213A.2 ; AISC 360 (AISC 341 as applicable); AWS D1.1; DSA IR 17-3.
S/A5d: Deck Welds Inspect floor and roof deck welds.	1705A.2.2, Table 1705A.2.1 Item 5a.6 ; AISC 360 (AISC 341 as applicable); AWS D1.3; DSA IR 17-3.
S/A5e: Cold-Formed Steel Inspect welding of structural cold-formed steel.	1705A.2.5 ; AWS D1.3; DSA IR 17-3. The quality control provisions of AISI S240 Chapter D shall also apply. * May be performed by the project inspector when specifically approved by DSA.
S/A5f: Stairs and Railing Inspect welding of stairs and railing systems.	1705A.2.1 ; AISC 360 (AISC 341 as applicable); AWS D1.1 & D1.3; DSA IR 17-3. * May be performed by the project inspector when specifically approved by DSA.
S/A5g: Reinf. Steel Weldability Verification of reinforcing steel weldability.	1705A.3.1 ; AWS D1.4; DSA IR 17-3. Verify carbon equivalent reported on mill certificates.
S/A5h: Reinforcing Steel Inspect welding of reinforcing steel.	Table 1705A.2.1 Item 5b, 1705A.3.1, Table 1705A.3 Item 2, 1903A.8 ; AWS D1.4; DSA IR 17-3.

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S/A6. NONDESTRUCTIVE TESTING:	
Test or Special Inspection	Code References and Notes
S/A6a: Ultrasonic Ultrasonic	1705A.2.1, Table 1705A.2.1 Item 4c, 1705A.2.5; AISC 341 J6.2, AISC 360 N5.5; AWS D1.1, AWS D1.8; DSA IR 17-2.
S/A6b: Magnetic Particle Magnetic Particle	1705A.2.1, Table 1705A.2.1 Item 4c, 1705A.2.5; AISC 341 J6.2, AISC 360 N5.5; AWS D1.1, AWS D1.8; DSA IR 17-2.
S/A6c: Not used.	N/A
S/A6d: Not used.	N/A
S/A6e: Not used.	N/A

S/A7. STEEL JOISTS AND TRUSSES:	
Test or Special Inspection	Code References and Notes
S/A7a: Fabrication Verify size, type and grade for all chord and web members as well as connectors and weld filler material; verify joist profile, dimensions and camber (if applicable); verify all weld locations, lengths and profiles; mark or tag each joist.	1705A.2.3, Table 1705A.2.3; AWS D1.1; DSA IR 22-3 for steel joists only. 1705A.2.4; AWS D1.3 for cold-formed steel trusses.

S/A8. SPRAYED FIRE-RESISTANT MATERIALS:	
Test or Special Inspection	Code References and Notes
S/A8a: Surface and Installation Examine structural steel surface conditions, inspect application, take samples, measure thickness and verify compliance of all aspects of application with DSA-approved documents.	1705A.15, 1705A.15.1, 1705A.15.2, 1705A.15.3, 1705A.15.4, 1705A.15.5, 1705A.15.6.
S/A8b: Density Test density.	1705A.15.1, 1705A.15.5, ASTM E605
S/A8c: Bond: Adhesion/Cohesion Bond strength adhesion/cohesion.	1705A.15.1, 1705A.15.6, ASTM E736

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S/A9. ANCHOR BOLTS AND ANCHOR RODS:	
Test or Special Inspection	Code References and Notes
S/A9a: Anchor Rods and Bolts Anchor Bolts and Anchor Rods	Identify, sample and test anchor bolts and anchor rods not meeting exemptions identified in Section 1 of IR 17-11.
S/A9b: Other Threaded Rods Threaded rod not used for foundation anchorage.	Identify, sample and test threaded rods not meeting exemptions identified in Section 1 of IR 17-11.

S/A10. STORAGE RACK SYSTEMS:	
Test or Special Inspection	Code References and Notes
S/A10a: Material Verification Materials used, to verify compliance with one or more of the material test reports in accordance with the approved construction documents.	Table 1705A.13.7
S/A10b: Fabrication Fabricated storage rack elements.	1704A.2.5; Table 1705A.13.7
S/A10c: Anchorage Storage rack anchorage installation.	ANSI/MH16.1 Section 7.3.2; Table 1705A.13.7
S/A10d: Completed System Completed storage rack system to indicate compliance with the approved construction documents.	Table 1705A.13.7; * May be preformed by the project inspector when specifically approved by DSA.

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S/A11. Other Steel	
Test or Special Inspection	Code References and Notes
S/A11a. Not used.	N/A
S/A11b. Not used.	N/A
S/A11c. Not used.	N/A
S/A11d. Not used.	N/A
S/A11e. Not used.	N/A
S/A11f. Not used.	N/A
S/A11g. Not used.	N/A
S/A11h. Not used.	N/A
S/A11i. Not used.	N/A
S/A11j. Not used.	N/A
S/A11k. Not used.	Not used.
S/A11l. Not used.	Not used.

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W1. PREFABRICATED WOOD TRUSSES:	
Test or Special Inspection	Code References and Notes
W1a: Open Web Truss Fabrication Inspect fabrication of manufactured open-web trusses.	1705A.5.6 ; DSA IR 23-8.
W1b: Metal Plate Truss Fabrication Inspect fabrication of manufactured metal-plate- connected trusses.	1705A.5.6, 1705A.5.7 ; DSA IR 23-4.
W2. MANUFACTURED WOOD STRUCTURAL ELEMENTS:	
Test or Special Inspection	Code References and Notes
W2a: GLS Timber Fabrication Inspect fabrication of structural glued-laminated timber.*	* See 1705A.5.5 for exceptions
W2b: CLT Fabrication Inspect fabrication of cross-laminated timber.	1705A.5.5
W2c: Mass Timber Erection Inspect erection of mass timber.	Table 1705A.5.3 , Item 2
W2d: Connections Type A Inspect mass timber connections with threaded fasteners, bolts, and/or adhesive anchors other than described in item e below. Inspect concealed mass timber connections.	Table 1705A.5.3 , Items 3.1, 3.3, 3.4, 3.5. For threaded fasteners: Verify use of proper installation equipment. Verify use of pre-drilled holes where required. Inspect screws, including diameter, length, head type, spacing, installation angle, and depth.
W2e: Connections Type B Inspect mass timber connections with adhesive anchors installed in a horizontal or upward orientation.	Table 1705A.5.3 , Item 3.2
W2f: Sealants Inspect application of sealants or adhesives applied to mass timber elements.	1705A.20

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W3. OTHER Wood:	
Test or Special Inspection	Code References and Notes
W3a. Not used.	N/A
W3b. Not used.	N/A
W3c. Not used.	N/A
W3d. Not used.	N/A
W3e. Not used.	N/A
W3f. Not used.	N/A
W3g. Not used.	N/A
W3h. Not used.	N/A
W3i. Not used.	N/A
W3j. Not used.	N/A
W3k. Not used.	Not used.
W3l. Not used.	Not used.

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X1. OTHER:	
Test or Special Inspection	Code References and Notes
X01. Load test for identified product(s):	1709A.2, 1709A.3. Testing is not required for: 1) a product with a valid evaluation service report per DSA IR A-5, or 2) a product that can be justified by structural calculation.
X02. Installation torque for non-HS bolts on communication tower identified as essential service facility projects (ESFP).	Calibrated wrench use required, verified by SI during installation. DSA Policy PL 18-01: Communication Towers, Poles and Buildings Utilized by State Agencies for Essential Services Communications. *EXCEPTION: Non-ESFP may use PI without need for notification to DSA.
X03. Overlap Jacking	Overlap splices of pole sections during jacking operations.
X04. Not used.	N/A
X05. Not used.	N/A
X06. Not used.	N/A
X07. Not used.	N/A
X08. Not used.	N/A
X09. Not used.	N/A
X10. Not used.	N/A

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EXEMPTIONS

SOILS - EXEMPTIONS:

Soils: Eligible shallow foundation elements | Shallow foundations, are exempt from special inspections and testing by a Geotechnical Engineer for the following cases: A) buildings without a geotechnical report and meeting the exception Item #1 criteria in CBC Section 1803A.2 supported by native soil (any excavation depth) or fill soil (not exceeding 12" depth per CBC, Section 1804A.6), B) soil scarification/recompaction not exceeding 12" depth, C) native or fill soil supporting exterior non-structural flatwork (e.g., sidewalks, site concrete ramps, site stairs, parking lots, driveways, etc.), D) unpaved landscaping and playground areas, or E) utility trench backfill with depth not exceeding 12". These exempt structures shall be identified on the approved construction documents.

Soils: Eligible deep foundation elements, Type 1 | Deep foundation acting as cantilever footing with a design based on minimum allowable pressures per CBC Table 1806A.2 and without a geotechnical report are exempt from special inspection and testing by a Geotechnical Engineer for the following cases: A) free standing sign or scoreboard, B) cell or antenna towers and poles less than 35'-0" tall (e.g., lighting poles, flag poles, poles supporting open mesh fences, etc.). These exempt structures shall be identified on the approved construction documents.

Soils: Eligible deep foundation elements Type 2 | Deep foundation acting as cantilever footing with a design based on minimum allowable pressures per CBC Table 1806A.2 and without a geotechnical report are exempt from special inspection and testing by a Geotechnical Engineer for the following cases: A) single-story open fabric shade structure, or B) covered walkway structure with an apex height less than 10'-0" above adjacent grade. These exempt structures shall be identified on the approved construction documents.

CONCRETE/MASONRY - EXEMPTIONS:

Concrete/Masonry: Eligible post-installed anchors | Post-installed anchors for the following: A) exempt non-structural components (e.g., mechanical, electrical, plumbing equipment – see item 7 for "Welding" in the Appendix below) given in CBC Section 1617A.1.18 or B) interior nonstructural wall partitions meeting criteria listed in exempt item 3 for "Welding" in the Appendix below.

Concrete: Batch plant inspection for items listed in and complying with CBC Section 1705A.3.3.2. | Concrete batch plant inspection is not required for items given in CBC Section 1705A.3.3.2 subject to the requirements and limitations in that section.

Concrete: Epoxy shear dowels in nonstructural slab-on-grade per CBC Section 1910A.5.4, Exception #4. | Epoxy shear dowels in site flatwork and/or other nonstructural concrete.

Concrete/Masonry: Reinforcing bar testing for items listed in and complying with CBC Section 1910A.2. | Testing of reinforcing bars is not required for items given in CBC Section 1910A.2 subject to the requirements and limitations in that section. These exempt structures shall be identified on the approved construction documents.

Masonry: Freestanding site walls and retaining walls per DSA IR 21-1. | Freestanding and site retaining masonry walls may be exempt from certain DSA masonry testing and special inspection items as allowed per DSA IR 21-1.

Eligible precast elements | Structural tests and special inspections are not required for the following concrete precast elements. Provide a certificate of compliance at delivery. Exemptions shall be identified on the approved construction documents.

1. Underground vaults no greater than 5 feet x 5 feet x unlimited height and pipe manufactured to an ASTM standard, 5 foot or less in diameter.
2. Elements manufactured in a PCI or NPCA certified manufacturing plant:

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|----|---|
| A. | Underground vaults no greater than 16 feet in both length and width, of unlimited height, not subject to loading greater than HS 20-44. |
| B. | Pipe. |
| C. | Stair treads, landing planks. |

WELDING - EXEMPTIONS:

Welding: Eligible fences and gates | Fences, gates with maximum leaf span of 10', and gates with a maximum rolling section of 10' all having an apex height less than 8'-0" above lowest adjacent grade.

Welding: Eligible railing and ramps | Handrails, guardrails, and modular or relocatable ramps associated with walking surfaces less than 30" above adjacent grade; fillet welds shall not be ground flush.

Welding: Eligible interior cold-formed steel framing | Non-bearing non-shearwall interior cold-formed steel framing spanning less than 15'-0" in height and header less than 10'-0" in opening width, such as in interior partitions, interior soffits, etc.

Welding: Eligible equipment curbs | Manufactured support frames and curbs using hot rolled or cold-formed steel (i.e., light gauge) for mechanical, electrical, or plumbing equipment weighing less than 2000# (equipment only) (connections of such frames to superstructure elements using welding will require special inspection.)

Welding: Eligible components supporting MEP distribution systems | Manufactured components (e.g., Tolco, B-Line, Afcon, etc.) for mechanical, electrical, or plumbing hanger support and bracing (connections of such components to superstructure elements using welding will require special inspection.)

Welding: Eligible mounts and recreational equipment | TV Brackets, projector mounts with a valid listing (see DSA IR A-5) and recreational equipment (e.g., playground structures, basketball backstops, etc.) (connections of such elements to superstructure elements using welding will require special inspection.)

Welding: Eligible nonstructural components | Any support for exempt non-structural components given in CBC Section 1617A.1.18 meeting the following: A) when supported on a floor/roof, <400# or resulting composite center of mass (including component's center of mass) $\leq 4'$ above supporting floor/roof, B) when hung from a wall or roof/floor, and <20# for discrete units or <5 plf for distributed systems.

Project Name: **Polytechnic High School**
School District: **Long Beach USD**

Application No.: **03-125644** Increment:
File No.: **19-H15**