

QUALITY ASSURANCE/SPECIAL INSPECTION:

QUALITY ASSURANCE PLAN: QUALITY ASSURANCE SHALL BE PROVIDED PER THE REQUIREMENTS OF IBC SECTION 1705.2 AND AS NOTED HEREIN.

STRUCTURAL SYSTEM	VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCES
SOILS	PRIOR TO PLACEMENT OF PREPARED FILL, THE SPECIAL INSPECTOR SHALL DETERMINE THAT THE SITE HAS BEEN PREPARED IN ACCORDANCE WITH THE APPROVED SOILS REPORT.		X	IBC 1704.7
	DURING FILL PLACEMENT AND COMPACTION OF FILL MATERIAL	X		
	EVALUATION OF IN-PLACE DENSITY OF COMPACTED FILL		X	
	PILING, DRILLING PIERS & CAISSONS	X		IBC 1704.8
STEEL CONSTRUCTION	MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS		X	AISC ASD, SECTION A3.4 AISC LRFD SECTION A3.3
	HIGH-STRENGTH BOLTING- BEARING-TYPE CONNECTIONS		X	AISC LRFD SECTION M2.5 IBC 1704.3.3
	HIGH-STRENGTH BOLTING- SLIP-CRITICAL CONNECTIONS	X		AISC LRFD SECTION M2.5 IBC 1704.3.3
	STRUCTURAL STEEL WELDING 1. COMPLETE AND PARTIAL PENETRATION WELDS 2. MULTI-PASS FILLET WELDS 3. SINGLE-PASS FILLET WELDS >5/16" 4. SINGLE-PASS FILLET WELDS <5/16" 5. FLOOR AND ROOF METAL DECKING 6. FIELD-INSTALLED WELDED STUDS 7. WELDING OF STAIRS AND RAILING SYSTEMS	X X X	X X X	AWS D1.1 IBC 1704.3.1 AWS D1.3
	REINFORCING STEEL WELDING 1. VERIFICATION OF WELDABILITY 2. SHEAR REINFORCEMENT 3. OTHER REINFORCEMENT 4. REINFORCEMENT IN MOMENT FRAMES, SHEAR WALL BOUNDARY ELEMENTS	X X	X X	AWS D1.4 ACI 318:3.5.2 IBC 1903.5.2
	MATERIAL VERIFICATION OF STRUCTURAL STEEL 1. IDENTIFICATION MARKINGS CONFORM TO ASTM STANDARDS LISTED IN GENERAL NOTES 2. MANUFACTURER'S CERTIFIED MILL TEST REPORTS		X X	IBC 1708.4 ASTM A6 OR A568
	MATERIAL VERIFICATION OF WELD FILLER MATERIALS. 1. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATIONS LISTED IN GENERAL NOTES 2. MANUFACTURER'S CERTIFICATE OF COMPLIANCE		X X	AISC, ASD, SECTION A3.6 AISC LRFD, SECTION A3.5
	INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS		X	IBC 1704.3.2
	SPRAYED FIRE-RESISTANT MATERIALS		X	IBC 1704.11
	CONCRETE REINFORCING STEEL AND PLACEMENT		X	ACI 318:3-5,7.1-7.7 IBC 1903.5, 1907.1, 1907.7, 1914.4
	BOLTS TO BE INSTALLED IN CONCRETE-PRIOR TO AND DURING PLACEMENT OF CONCRETE VERIFY USE OF REQUIRED DESIGN MIX	X		IBC 1912.5
			X	ACI 318, CH4.5.2-5.4 IBC 1904,1905.2-1905.4 1914.2, 1914.3
	SAMPLING OF FRESH CONCRETE, SLUMP TEST, AIR CONTENT, TEMPERATURE OF CONCRETE AT TIME OF MAKING SPECIMENS	X		ASTM C172, C31 ACI 318:5.6, 5.8 IBC 1905.6, 1914.10
	CONCRETE PLACEMENT FOR PROPER APPLICATION	X		ACI 318:5.9, 5.10 IBC 1905.9, 1905.10 1914.6, 1914.7, 1914.8
	INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES		X	ACI 318:5.11-5.13 IBC 1905.11, 1905.13 1914.9
	VERIFICATION OF IN-SITU CONCRETE STRENGTH PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS		X	ACI 318:6.2 IBC 1906.2
	MATERIAL VERIFICATION OF REINFORCEMENT STEEL		X	IBC 1708.3
	ANCHORS TO BE INSTALLED IN HARDENED CONCRETE	X		IBC 1912.5
PRESTRESSED CONCRETE	APPLICATION OF PRESTRESSING FORCES	X		ACI 318:18.18
	GROUTING OF BONDED PRESTRESSING TENDONS IN THE SEISMIC-FORCE-RESISTING- SYSTEM.	X		ACI 318:18.16.4
	ERECTION OF MEMBERS		X	ACI 318:CH.16
	CONCRETE STRENGTH PRIOR TO STRESSING OF TENDONS		X	ACI 318.6.2 IBC 1906.2

STRUCTURAL SYSTEM	VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCES
MASONRY	AT BEGINNING OF CONSTRUCTION THE FOLLOWING SHALL BE VERIFIED: 1. PROPORTIONS OF SITE-PREPARED MORTAR. 2. CONSTRUCTION OF MORTAR JOINTS 3. LOCATION OF REINFORCEMENT AND CONNECTORS		X X X	ACI 530.1 ARTS 2.6A, 3.3B, 3A
	INSPECTION PROGRAM SHALL VERIFY THE FOLLOWING: 1. SIZE AND LOCATION OF STRUCTURAL ELEMENTS 2. TYPE, SIZE AND LOCATION OF ANCHORS IN MASONRY 3. SPECIFIED SIZE, GRADE AND TYPE OF REINFORCEMENT 4. WELDING OF REINFORCING BARS 5. PROTECTION OF MASONRY DURING COLD WEATHER OR HOT WEATHER		X X X	IBC SEC. 2108.9.2.11 ITEM 2, SEC. 2104.3, SEC. 2104.4 ACI 530 ACI 530.1 ARTS 3.3G, 2.4, 3.4, 1.8
	PRIOR TO GROUTING THE FOLLOWING SHALL BE VERIFIED: 1. GROUT SPACE IS CLEAN 2. PLACEMENT OF REINFORCEMENT AND CONNECTORS 3. PROPORTIONS OF SITE-PREPARED GROUT 4. CONSTRUCTION OF MORTAR JOINTS		X X X	ACI 530, SEC. 1.12 ACI 530.1 ARTS 3.2D, 3.4, 2.6B, 3.3B
	GROUT PLACEMENT	X		ACI 530.1, ART 3.5
	PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS	X		ACI 530.1, ART 1.4
	COMPLIANCE WITH INSPECTION PROVISIONS OF CONSTRUCTION DOCUMENTS		X	ACI 530.1, ART 1.5
	SUSPENDED CEILINGS		X	IBC 1621, 1705.1 ASCE 9.6.2.6
	ACCESS FLOORS		X	IBC 1707.5
	ANCHORED VENEER		X X X X X	IBC 1707.6 & 1704.5 ACI 530/ASCE5/TMS402 SEC 1.22 (e), 2.1.4.3.1.6
	CLADDING		X	
EMERGENCY OR STANDBY POWER SYSTEMS	ANCHORAGE OF EQUIPMENT TO STRUCTURE		X	IBC 1707.7
PIPING SYSTEMS INTENDED TO CARRY FLAMMABLE COMBUSTIBLE, OR HIGHLY TOXIC CONTENTS AND ASSOCIATED MECHANICAL EQUIPMENT	ANCHORAGE AND BRACING OF EQUIPMENT TO STRUCTURE		X	IBC 1707.7

TESTING AND SPECIAL INSPECTION REPORTS SHALL BE PREPARED FOR EACH INSPECTION ITEM ON A DAILY BASIS WHENEVER WORK IS PERFORMED ON THAT ITEM. REPORTS SHALL BE DISTRIBUTED TO OWNER, CONTRACTOR, BUILDING OFFICIAL, ARCHITECT AND STRUCTURAL ENGINEER.

STRUCTURAL OBSERVATIONS SHALL BE PERFORMED BY THE STRUCTURAL ENGINEER OF RECORD OR DESIGNATED REPRESENTATIVE IN ACCORDANCE WITH IBC 1709. STRUCTURAL OBSERVATION SHALL BE PERFORMED AS FOLLOWS:

- › PERIODIC VISUAL OBSERVATION OF STRUCTURAL SYSTEMS FOR GENERAL CONFORMANCE TO CONSTRUCTION DOCUMENTS AT SIGNIFICANT CONSTRUCTION STAGES.
- › REVIEW OF TESTING AND INSPECTION REPORTS.
- › REPORTS SHALL BE PREPARED FOR EACH SITE VISIT AND SHALL BE DISTRIBUTED TO ARCHITECT.

GENERAL CONTRACTOR SHALL SUBMIT A WRITTEN CONTRACTOR'S STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND OWNER PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL INCLUDE THE FOLLOWING:

- › ACKNOWLEDGMENT OF AWARENESS OF REQUIREMENTS OF QUALITY ASSURANCE PLAN.
- › ACKNOWLEDGMENT THAT CONTROL WILL BE EXERCISED TO OBTAIN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS APPROVED BY THE BUILDING OFFICIAL.
- › PROCEDURES FOR EXERCISING CONTROL WITHIN THE CONTRACTOR'S ORGANIZATION AND THE METHOD AND FREQUENCY OF REPORTING AND DISTRIBUTION.
- › IDENTIFICATION OF PERSONS EXERCISING SUCH CONTROL AND THEIR POSITIONS IN THE ORGANIZATION.