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M. SPECIAL INSPECTIONS:	1. SPECIAL INSPECTIONS ARE REQUIRED IN ACCORDANCE WITH CHAPTER 17 OF THE IBC.		
	2. A QUALIFIED TESTING AND INSPECTION AGENCY SHALL BE EMPLOYED TO PROVIDE SPECIAL INSPECTIONS.		
	3. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO MEETS THE REQUIREMENTS OF SECTION 1704 AS FOUND IN THE IBC.		
	4. THE SPECIAL INSPECTOR SHALL KEEP DAILY RECORDS OF INSPECTIONS AND SHALL PROVIDE MONTHLY WRITTEN REPORTS OF THESE INSPECTIONS AND TESTS TO THE OWNER AND ENGINEER OF RECORD (EOR).		
	5. ANY TESTS OR INSPECTIONS INDICATING ITEMS NOT IN STRICT CONFORMANCE WITH THE CONTRACT DOCUMENTS AND APPLICABLE REFERENCED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR FOR IMMEDIATE CORRECTION AND DOCUMENTED WITH THE INSPECTOR'S FIELD REPORT. IF THE DISCREPANCIES ARE NOT CORRECTED, THEY SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE OWNER AND ENGINEER OF RECORD (EOR).		
	6. THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL STATEMENT OF SPECIAL INSPECTIONS WHICH STATES THAT THE SPECIAL INSPECTIONS AND TESTING REQUIRED FOR THIS PROJECT HAVE BEEN COMPLETED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.		
	7. A SCHEDULE OF STRUCTURAL INSPECTIONS IS LOCATED ON SHEET S-002.		
	8. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL WORK IS PERFORMED IN STRICT CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS. A QUALITY CONTROL PROGRAM SHALL BE USED BY THE GENERAL CONTRACTOR. THE SPECIAL INSPECTIONS SHALL NOT BE USED AS THE CONTRACTOR'S QUALITY CONTROL.		
	9. ANY FIELD OBSERVATIONS OR OTHER WORK PROGRESS REVIEW PERFORMED BY THE ENGINEER OF RECORD SHALL NOT BE CONSTRUED AS A SPECIAL INSPECTION.		
1704.2.5 INSPECTION OF FABRICATORS			
MATERIAL / ACTIVITY		SERVICE	EXTENT
VERIFY FABRICATION/QUALITY CONTROL PROCEDURES		IN-PLANT REVIEW	PERIODIC
1705.4 MASONRY CONSTRUCTION			
MATERIAL / ACTIVITY		SERVICE	EXTENT
1. VERIFICATION OF SLUMP FLOW AND VISUAL STABILITY INDEX (VSI) OF SELF-CONSOLIDATING GROUT AS DELIVERED TO THE PROJECT		FIELD INSPECTION	CONTINUOUS
2. VERIFY COMPLIANCE WITH APPROVED SUBMITTALS		FIELD INSPECTION	PERIODIC
3. VERIFY PROPORTIONS OF SITE-MIXED MORTAR, GROUT, AND PRE-STRESSING GROUT FOR BONDED TENDONS		FIELD INSPECTION	PERIODIC
4. VERIFY GRADE, TYPE, AND SIZE OF REINFORCEMENT AND ANCHOR BOLTS, AND PRE-STRESSING TENDONS AND ANCHORAGES		FIELD INSPECTION	PERIODIC
5. VERIFY CONSTRUCTION OF MORTAR JOINTS		FIELD INSPECTION	PERIODIC
6. VERIFY PLACEMENT OF REINFORCEMENT, CONNECTORS, AND PRE-STRESSING TENDONS AND ANCHORAGES		FIELD INSPECTION	LEVEL A - PERIODIC
7. VERIFY GROUT SPACE PRIOR TO GROUTING		FIELD INSPECTION	LEVEL A - PERIODIC
8. VERIFY PLACEMENT OF GROUT AND PRE-STRESSING GROUT FOR BONDED TENDONS		FIELD INSPECTION	CONTINUOUS
9. VERIFY SIZE AND LOCATION OF STRUCTURAL MASONRY ELEMENTS		FIELD INSPECTION	PERIODIC
10. VERIFY TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES OR OTHER CONSTRUCTION		FIELD INSPECTION	LEVEL A - PERIODIC
11. VERIFY WELDING OF REINFORCEMENT (SEE 1705.2.2)		FIELD INSPECTION	CONTINUOUS
12. VERIFY PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40° F) OR HOT WEATHER (TEMPERATURE ABOVE 90° F)		FIELD INSPECTION	PERIODIC
13. VERIFY APPLICATION AND MEASUREMENT OF PRE-STRESSING FORCE		FIELD INSPECTION	CONTINUOUS
14. VERIFY PLACEMENT OF AAC MASONRY UNITS AND CONSTRUCTION OF THIN-BED MORTAR JOINTS (FIRST 5000 SF OF AAC MASONRY)		FIELD INSPECTION	CONTINUOUS
15. VERIFY PLACEMENT OF AAC MASONRY UNITS AND CONSTRUCTION OF THIN-BED MORTAR JOINTS (AFTER THE FIRST 5000 SF OF AAC MASONRY)		FIELD INSPECTION	LEVEL A - PERIODIC
16. VERIFY PROPERTIES OF THIN-BED MORTAR FOR AAC MASONRY (FIRST 5000 SF OF AAC MASONRY)		FIELD INSPECTION	CONTINUOUS
17. VERIFY PROPERTIES OF THIN-BED MORTAR FOR AAC MASONRY (AFTER THE FIRST 5000 SF OF AAC MASONRY)		FIELD INSPECTION	LEVEL A - PERIODIC
18. PREPARE GROUT AND MORTAR SPECIMENS		FIELD INSPECTION	LEVEL A - PERIODIC
19. OBSERVE PREPARATION OF PRISMS		FIELD INSPECTION	LEVEL A - PERIODIC

1705.2 STEEL CONSTRUCTION			
MATERIAL / ACTIVITY	SERVICE	EXTENT	
1. FABRICATOR AND ERECTOR DOCUMENTS (VERIFY REPORTS AND CERTIFICATES AS LISTED IN AISC 360, CHAPTER N, PARAGRAPH 3.2 FOR COMPLIANCE WITH CONSTRUCTION DOCUMENTS)	SUBMITTAL REVIEW	EACH SUBMITTAL	
2. MATERIAL VERIFICATION OF STRUCTURAL STEEL	SHOP AND FIELD INSPECTION	PERIODIC	
3. EMBEDMENTS (VERIFY DIAMETER, GRADE, TYPE, LENGTH, EMBEDMENT. SEE 1705.3 FOR ANCHORS)	FIELD INSPECTION	PERIODIC	
4. VERIFY MEMBER LOCATIONS, BRACES, STIFFENERS, AND APPLICATION OF JOINT DETAILS AT EACH CONNECTION COMPLY WITH CONSTRUCTION DOCUMENTS	FIELD INSPECTION	PERIODIC	
5. STRUCTURAL STEEL WELDING:			
a. INSPECTION TASKS PRIOR TO WELDING (OBSERVE, OR PERFORM FOR EACH WELDED JOINT OR MEMBER, THE QA TASKS LISTED IN AISC 360, TABLE N5.4-1)	SHOP AND FIELD INSPECTION	OBSERVE OR PERFORM AS NOTED	
b. INSPECTION TASKS DURING WELDING (OBSERVE, OR PERFORM FOR EACH WELDED JOINT OR MEMBER, THE QA TASKS LISTED IN AISC 360, TABLE N5.4-2)	SHOP AND FIELD INSPECTION	OBSERVE	
c. INSPECTION TASKS AFTER WELDING (OBSERVE, OR PERFORM FOR EACH WELDED JOINT OR MEMBER, THE QA TASKS LISTED IN AISC 360, TABLE N5.4-3)	SHOP AND FIELD INSPECTION	OBSERVE OR PERFORM AS NOTED	
d. NONDESTRUCTIVE TESTING (NDT) OF WELDED JOINTS: SEE COMMENTARY			
1.) COMPLETE PENETRATION GROOVE WELDS 5/16" OR GREATER IN RISK CATEGORY III OR IV	SHOP OR FIELD ULTRASONIC TESTING - 100%	PERIODIC	
2.) COMPLETE PENETRATION GROOVE WELDS 5/16" OR GREATER IN RISK CATEGORY II	SHOP OR FIELD ULTRASONIC TESTING - 10% OF WELDS MINIMUM	PERIODIC	
3.) THERMALLY CUT SURFACES OF ACCESS HOLES WHEN MATERIAL t > 2"	SHOP OR FIELD MAGNETIC PARTICLE OR PENETRANT TESTING	PERIODIC	
4.) WELDED JOINTS SUBJECT TO FATIGUE WHEN REQUIRED BY AISC 360, APPENDIX 3 TABLE A-3.1	SHOP OR FIELD RADIOGRAPHIC OR ULTRASONIC TESTING	PERIODIC	
5.) FABRICATOR'S NDT REPORTS WHEN FABRICATOR PERFORMS NDT	VERIFY REPORTS	EACH SUBMITTAL	
6. STRUCTURAL STEEL BOLTING:			
a. INSPECTION TASKS PRIOR TO BOLTING (OBSERVE, OR PERFORM TASKS FOR EACH BOLTED CONNECTION, IN ACCORDANCE WITH QA TASKS LISTED IN AISC 360, TABLE N5.6-1)	SHOP AND FIELD INSPECTION	OBSERVE OR PERFORM AS NOTED	
b. INSPECTION TASKS DURING BOLTING (OBSERVE THE QA TASKS LISTED IN AISC 360, TABLE N5.6-2)			
1.) PRE-TENSIONED AND SLIP-CRITICAL JOINTS			
a.) TURN-OF-NUT WITH MATCHING MARKINGS	SHOP AND FIELD INSPECTION	PERIODIC	
b.) DIRECT TENSION INDICATOR	SHOP AND FIELD INSPECTION	PERIODIC	
c.) TWIST-OFF TYPE TENSION CONTROL BOLT	SHOP AND FIELD INSPECTION	PERIODIC	
d.) TURN-OF-NUT WITHOUT MATCHING MARKINGS	SHOP AND FIELD INSPECTION	CONTINUOUS	
e.) CALIBRATED WRENCH	SHOP AND FIELD INSPECTION	CONTINUOUS	
2.) SNUG-TIGHT JOINTS	SHOP AND FIELD INSPECTION	PERIODIC	
c. INSPECTION TASKS AFTER BOLTING (PERFORM TASKS FOR EACH BOLTED CONNECTION IN ACCORDANCE WITH QA TASKS LISTED IN AISC 360, TABLE N5.6-3)	SHOP AND FIELD INSPECTION	PERFORM	

1705.11.6 MECHANICAL AND ELECTRICAL COMPONENTS SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE		
MATERIAL / ACTIVITY	SERVICE	EXTENT
1. INSPECTION DURING THE ANCHORAGE OF ELECTRICAL EQUIPMENT FOR EMERGENCY OR STANDBY POWER SYSTEMS	FIELD INSPECTION	PERIODIC
2. INSPECTION DURING THE ANCHORAGE OF OTHER ELECTRICAL EQUIPMENT	FIELD INSPECTION	PERIODIC
3. INSPECTION DURING THE INSTALLATION AND ANCHORAGE OF PIPING SYSTEMS DESIGNED TO CARRY HAZARDOUS MATERIALS, AND THEIR ASSOCIATED MECHANICAL EQUIPMENT	FIELD INSPECTION	PERIODIC
4. INSPECTION DURING THE INSTALLATION AND ANCHORAGE OF HVAC DUCTWORK THAT WILL CONTAIN HAZARDOUS MATERIALS	FIELD INSPECTION	PERIODIC
5. INSPECTION DURING THE INSTALLATION AND ANCHORAGE OF VIBRATION ISOLATION SYSTEMS	FIELD INSPECTION	PERIODIC

1705.11.4 DESIGNATED SEISMIC SYSTEMS VERIFICATION		
MATERIAL / ACTIVITY	SERVICE	EXTENT
INSPECT AND VERIFY THAT THE COMPONENT LABEL, ANCHORAGE, OR MOUNTING CONFORMS TO THE CERTIFICATE OF COMPLIANCE IN ACCORDANCE WITH SECTION 1705.12.3	FIELD INSPECTION	PERIODIC

1705.12.3 SEISMIC CERTIFICATION OF NON-STRUCTURAL COMPONENTS		
MATERIAL / ACTIVITY	SERVICE	EXTENT
REVIEW CERTIFICATE OF COMPLIANCE FOR DESIGNATED SEISMIC SYSTEM COMPONENTS	CERTIFICATE OF COMPLIANCE REVIEW	EACH SUBMITTAL

1705.6 REQUIRED VERIFICATION AND INSPECTION OF SOILS		
MATERIAL / ACTIVITY	SERVICE	EXTENT
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY	FIELD INSPECTION	PERIODIC
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL	FIELD INSPECTION	PERIODIC
3. PERFORM CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS	FIELD INSPECTION	PERIODIC
4. VERIFY USE OF PROPER MATERIALS, DENSITIES, AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF COMPACTED FILL	FIELD INSPECTION	CONTINUOUS
5. PRIOR TO PLACEMENT OF CONTROLLED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY	FIELD INSPECTION	PERIODIC

1705.3 CONCRETE CONSTRUCTION		
MATERIAL / ACTIVITY	SERVICE	EXTENT
1. INSPECTION OF REINFORCING STEEL, INCLUDING PRE-STRESSING TENDONS, AND PLACEMENT	SHOP AND FIELD INSPECTION	PERIODIC
2. INSPECTION OF REINFORCING STEEL WELDING IN ACCORDANCE WITH TABLE 1705.2.2 ITEM 2b	SHOP AND FIELD INSPECTION	PERIODIC
3. INSPECTION OF ANCHORS CAST IN CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED OR WHERE STRENGTH DESIGN IS USED	SHOP AND FIELD INSPECTION	PERIODIC
4. INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS ^b	SHOP AND FIELD INSPECTION	PERIODIC
5. VERIFY USE OF REQUIRED DESIGN MIX	SHOP AND FIELD INSPECTION	PERIODIC
6. AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	SHOP AND FIELD INSPECTION	CONTINUOUS
7. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	SHOP AND FIELD INSPECTION	CONTINUOUS
8. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES	SHOP AND FIELD INSPECTION	PERIODIC
9. INSPECTION OF PRE-STRESSED CONCRETE		
a. APPLICATION OF PRE-STRESSING FORCE	SHOP AND FIELD INSPECTION	CONTINUOUS
b. GROUTING OF BONDED PRE-STRESSING TENDONS IN THE SEISMIC-FORCE-RESISTING SYSTEM	SHOP AND FIELD INSPECTION	CONTINUOUS
10. ERECTION OF PRECAST CONCRETE MEMBERS	SHOP AND FIELD INSPECTION	PERIODIC
11. VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	REVIEW FIELD TESTING AND LABORATORY REPORTS	PERIODIC
12. INSPECT FORMWORK FOR SHAPE, LOCATION, AND DIMENSIONS FOR THE CONCRETE MEMBER TO BE FORMED	FIELD INSPECTION	PERIODIC

- NOTES:
- WHERE APPLICABLE, SEE ALSO SECTION 1705.11 SPECIAL INSTRUCTIONS FOR SEISMIC RESISTANCE.
 - SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH ACI 355.2 OR OTHER QUALIFICATIONS PROCEDURES. WHERE SPECIFIC REQUIREMENTS ARE NOT PROVIDED, SPECIAL INSPECTION REQUIREMENTS SHALL BE SPECIFIED BY THE REGISTERED DESIGN PROFESSIONAL AND SHALL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO THE COMMENCEMENT OF THE WORK.