

SPECIAL INSPECTION MATRICES

SPECIAL INSPECTIONS

1. THE OWNER SHALL EMPLOY SPECIAL INSPECTORS, QUALIFIED TO THE SATISFACTION OF THE BUILDING OFFICIAL, WHO SHALL PROVIDE SPECIAL INSPECTIONS DURING CONSTRUCTION FOR THE WORK INDICATED BELOW.
2. SPECIAL INSPECTIONS AND ASSOCIATED TESTING SHALL BE PERFORMED BY AN APPROVED ACCREDITED INDEPENDENT AGENCY. INSPECTORS FOR EACH SYSTEM AND MATERIAL SHALL BE INTERNATIONAL CODE COUNCIL (ICC) CERTIFIED OR OTHERWISE APPROVED BY THE BUILDING OFFICIAL.
3. THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED FOR CONFORMANCE TO THE APPROVED DESIGN DRAWINGS AND SPECIFICATIONS.
4. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, CONTRACTOR, OWNER, AND ENGINEER OF RECORD. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN, IF UNCORRECTED, TO THE PROPER DESIGN AUTHORITY AND TO THE BUILDING OFFICIAL.
5. SEE PROJECT SPECIFICATIONS AND REFERENCED STANDARDS FOR FREQUENCY OF TESTING.
6. AT THE CONCLUSION OF CONSTRUCTION, A FINAL REPORT DOCUMENTING REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF PREVIOUSLY NOTED DISCREPANCIES SHALL BE SUBMITTED.
7. THE FOLLOWING TYPES OF WORK SHALL BE INSPECTED BY A SPECIAL INSPECTOR IN ACCORDANCE WITH CHAPTER 17 OF THE CALIFORNIA BUILDING CODE:

(2022 CBC) REQUIRED SPECIAL INSPECTIONS AND TESTS OF CAST-IN-PLACE DEEP FOUNDATIONS				
VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	CBC REFERENCE	
INSPECT DRILLING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH ELEMENT	X	---	1705.8	
VERIFY PLACEMENT LOCATIONS AND PLUMBNESS, CONFIRM ELEMENT DIAMETERS, BELL DIAMETERS (IF APPLICABLE), LENGTHS, EMBEDMENT INTO BEDROCK (IF APPLICABLE) AND ADEQUATE END-BEARING STRATA CAPACITY; RECORD CONCRETE OR GROUT VOLUMES	X	---	1705.8	
FOR CONCRETE ELEMENTS, PERFORM ADDITIONAL TESTS AND ADDITIONAL SPECIAL INSPECTIONS IN ACCORDANCE WITH SECTION 1705.3	---	---	1705.3	

(2022 CBC) REQUIRED SPECIAL INSPECTIONS AND TESTS OF SOILS				
VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	CBC REFERENCE	
VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY	---	X	1705.6	
VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL	---	X	1705.6	
PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS	---	X	1705.6	
VERIFY THE USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF CONTROLLED FILL	X	---	1705.6	
PRIOR TO PLACEMENT OF CONTROLLED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY	---	X	1705.6	

(2022 CBC) REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION				
*SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH 17.8.2 IN ACI 318, OR OTHER QUALIFICATION 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. **WHERE APPLICABLE, SEE SECTION 1705.12, SPECIAL INSPECTION FOR SEISMIC RESISTANCE.				
VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD**	CBC REFERENCE
INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS, AND PLACEMENT	---	X	ACI 318: CH. 20, 25.2, 25.3, 26.6.1-26.6.3	1908.4
REINFORCING BAR WELDING				
- VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706	---	X	AWS D1.4, ACI 318: 26.6.4	---
- INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"		X	AWS D1.4, ACI 318: 26.6.4	---
- INSPECT ALL OTHER WELDS	X	---	AWS D1.4, ACI 318: 26.6.4	---
INSPECTION OF ANCHORS CAST IN CONCRETE	---	X	ACI 318: 17.8.2	---
INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS*				
- ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS	X	---	ACI 318: 17.8.2.4	---
- MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED ABOVE	---	X	ACI 318: 17.8.2	---
VERIFY USE OF REQUIRED DESIGN MIX	---	X	ACI 318: CH. 19, 28.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3
PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	X	---	ASTM C172, ASTM C31, ACI 318: 26.5, 26.12	1908.10
INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	X	---	ACI 318: 26.5	1908.6, 1908.7, 1908.8
VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES	---	X	ACI 318: 26.5.3 - 26.5.5	1908.9
INSPECTION OF PRESTRESSED CONCRETE FOR:				
- APPLICATION OF PRESTRESSING FORCES	X	---	ACI 318: 26.10	---
- GROUTING OF BONDED PRESTRESSING TENDONS	X	---	ACI 318: 26.10	---
INSPECT ERECTION OF PRECAST CONCRETE MEMBERS	---	X	ACI 318: 26.9	---
VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED	---	X	ACI 318: 26.11.2	---
INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED	---	X	ACI 318: 26.11.1,2(b)	---

(2022 CBC) REQUIRED INSPECTIONS AND TESTS OF GENERAL STEEL CONSTRUCTION PER AISC 360				
* THE FABRICATOR OR ERECTOR, AS APPLICABLE, SHALL MAINTAIN A SYSTEM BY WHICH A WELDER WHO HAS WELDED A JOINT SHALL BE IDENTIFIED. STAMPS, IF USED, SHALL BE THE LOW-STRESS TYPE. ** WHEN WELDING OF DOUBLE PLATES, CONTINUITY PLATES OR STIFFENERS HAS BEEN PERFORMED IN THE K-AREA, VISUALLY INSPECT THE WEB K-AREA FOR CRACKS WITHIN 3 INCHES (75 MM) OF THE WELD. *** AFTER ROLLED HEAVY SHAPES (SEE SECTION A3.1c) AND BUILT-UP HEAVY SHAPES (SEE SECTION A3.1d) ARE WELDED, VISUALLY INSPECT THE WELD ACROSS HOLE FOR CRACKS. **** THIS INCLUDES SUCH ITEMS AS BRACES, STIFFENERS, MEMBER LOCATIONS, AND CORRECT APPLICATION FIELD JOINT DETAILS AT EACH CONNECTION.				
OBSERVE (O); THE INSPECTOR SHALL OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS.				
PERFORM (P); THESE TASKS SHALL BE PERFORMED FOR EACH BOLTED CONNECTION, WELDED JOINT OR MEMBER.				
QUALITY CONTROL (QC); INSPECTION TASKS SHALL BE PERFORMED BY THE FABRICATOR'S OR ERECTOR'S QUALITY CONTROL INSPECTOR (QCI), AS APPLICABLE, IN ACCORDANCE WITH SECTIONS N5.4, N5.6 AND N5.7. FOR QC INSPECTION, THE APPLICABLE CONSTRUCTION DOCUMENTS ARE THE SHOP DRAWINGS AND THE ERECTION DRAWINGS, AND THE APPLICABLE REFERENCED SPECIFICATIONS, CODES AND STANDARDS.				
QUALITY ASSURANCE (QA); INSPECTION TASKS SHALL BE PERFORMED BY THE QUALITY ASSURANCE INSPECTOR (QAI) WHEN REQUIRED BY THE AUTHORITY HAVING JURISDICTION (AHJ), APPLICABLE BUILDING CODE (ABC), PURCHASER, OWNER, OR ENGINEER OF RECORD (EOR), IN ACCORDANCE WITH SECTIONS N5.4, N5.6 AND N5.7. THE OWNERS DESIGNATED REPRESENTATIVE FOR CONSTRUCTION SHALL SCHEDULE THIS WORK WITH THE QAI AND THE FABRICATOR AND ERECTOR TO MINIMIZE INTERRUPTIONS TO THE WORK OF THE FABRICATOR AND ERECTOR. THE QAI SHALL REVIEW THE MATERIAL TEST REPORTS AND CERTIFICATIONS AS LISTED IN SECTION N3.2 FOR COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS. CONCURRENT WITH THE SUBMITTAL OF SUCH REPORTS TO THE AHJ, EOR, OR OWNER, THE QA AGENCY SHALL SUBMIT TO THE FABRICATOR AND ERECTOR INSPECTION REPORTS AND NDT REPORTS.				
INSPECTION TASKS PRIOR TO WELDING (AISC TABLE N5.4-1 AND AWS D1.1/D1.1M)	QC	QA		
WELDER QUALIFICATION RECORDS AND CONTINUITY RECORDS	P	O		
WELDING PROCEDURE SPECIFICATIONS (WPSs) AVAILABLE	P	P		
MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	P	P		
MATERIAL IDENTIFICATION (TYPE/GRADE)	O	O		
WELDER IDENTIFICATION SYSTEM*	O	O		
FIT-UP OF GROOVE WELDS (INCLUDING JOIN GEOMETRY)	QC	QA		
- JOINT PREPARATION	O	O		
- DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL)	O	O		
- CLEANLINESS (CONDITION OF STEEL SURFACES)	O	O		
- TACKING (TACK WELD QUALITY AND LOCATION)	O	O		
- BACKING TYPE AND FIT (IF APPLICABLE)	O	O		
FIT-UP OF CJP GROOVE WELDS OF HSS T-, Y- AND K-JOINTS WITHOUT BACKING (INCLUDING JOINT GEOMETRY)				
- JOINT PREPARATION	P	O		
- DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL)	P	O		
- CLEANLINESS (CONDITION OF STEEL SURFACES)	P	O		
- TACKING (TACK WELD QUALITY AND LOCATION)	P	O		
CONFIGURATION AND FINISH OF ACCESS HOLES	O	O		
FIT-UP OF FILLET WELDS:				
- DIMENSIONS (ALIGNMENT, GAPS AT ROOT)	O	O		
- CLEANLINESS (CONDITION OF STEEL SURFACES)	O	O		
- TACKING (TACK WELD QUALITY AND LOCATION)	O	O		
CHECK WELDING EQUIPMENT	O	-		
INSPECTION TASKS DURING WELDING (AISC TABLE N5.4-2 AND AWS D1.1/D1.1M)	QC	QA		
CONTROL AND HANDLING OF WELDING CONSUMABLES:				
- PACKAGING	O	O		
- EXPOSURE CONTROL	O	O		
NO WELDING OVER CRACKED TACK WELDS	O	O		
ENVIRONMENTAL CONDITIONS:				
- WIND SPEED WITHIN LIMITS	O	O		
- PRECIPITATION AND TEMPERATURE	O	O		
WPS FOLLOWED:				
- SETTINGS ON WELDING EQUIPMENT	O	O		
- TRAVEL SPEED	O	O		
- SELECTED WELDING MATERIALS	O	O		
- SHIELDING GAS TYPE/FLOW RATE	O	O		
- PREHEAT APPLIED	O	O		
- INTERPASS TEMPERATURE MAINTAINED (MIN/MAX)	O	O		
- PROPER POSITION (F, V, H, OH)	O	O		
WELDING TECHNIQUES:				
- INTERPASS AND FINAL CLEANING	O	O		
- EACH PASS WITHIN PROFILE LIMITATIONS	O	O		
- EACH PASS MEETS QUALITY REQUIREMENTS	O	O		
PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS	P	P		
INSPECTION TASKS AFTER WELDING (AISC TABLE N5.4-3 AND AWS D1.1/D1.1M)	QC	QA		
WELDS CLEANED	O	O		
SIZE, LENGTH, AND LOCATIONS OF WELDS	P	P		
WELDS MEET VISUAL ACCEPTANCE CRITERIA:				
- CRACK PROHIBITION	P	P		
- WELD/BASE-METAL FUSION	P	P		
- CRATER CROSS SECTION	P	P		
- WELD PROFILES	P	P		
- WELD SIZE	P	P		
- UNDERCUT	P	P		
- POROSITY	P	P		
ARC STRIKES	P	P		
K-AREA**	P	P		
WELD ACROSS HOLES IN ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES***	P	P		
BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)	P	P		
REPAIR ACTIVITIES	P	P		
DOCUMENTATION ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	P	P		
NO PROHIBITED WELDS HAVE BEEN ADDED WITHOUT THE APPROVAL OF THE EOR	O	O		
INSPECTION TASKS PRIOR TO BOLTING (AISC TABLE N5.6-1 AND RCSC SPECIFICATION)	QC	QA		
MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	O	P		
FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS	O	O		
CORRECT FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH, IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE)	O	O		
CORRECT BOLTING PROCEDURE SELECTED FOR JOINT DETAIL	O	O		
CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITIONS AND HOLE PREPARATIONS, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS	O	O		
PRE-INSTALLATION OF VERIFICATION TESTING BY INSTALLATION PERSONEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED	P	O		
PROTECTED STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS, AND OTHER FASTENER COMPONENTS	O	O		
INSPECTION TASKS DURING BOLTING (AISC TABLE N5.6-2 AND RCSC SPECIFICATION)	QC	QA		
FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED	O	O		
JOINT BROUGHT TO THE SNUG, TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION	O	O		
FASTENERS COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING	O	O		
FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH A METHOD APPROVED BY THE RCSC AND PROGRESSING SYSTEMATICALLY FROM MOST RIGID POINT TOWARDS FREE EDGES	O	O		

(2022 CBC) REQUIRED INSPECTIONS AND TESTS OF GENERAL STEEL CONSTRUCTION PER AISC 360 (CONTINUED)			
INSPECTION TASKS AFTER BOLTING (AISC TABLE N5.6-3 AND RCSC SPECIFICATION)	QC	QA	
DOCUMENT ACCEPTANCE OR REDACTION OF BOLTED CONNECTIONS	P	P	
OTHER INSPECTION TASKS (AISC 360 N5.8)	QC	QA	
	-	P	
INSPECTION DURING PLACEMENT OF ANCHOR RODS AND OTHER EMBEDMENTS SUPPORTING STRUCTURAL STEEL FOR COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS, AS A MINIMUM, THE DIAMETER, GRADE, TYPE AND LENGTH OF THE ANCHOR ROD OR EMBEDDED ITEM, AND THE EXTENT OR DEPTH OF EMBEDMENT INTO THE CONCRETE, SHALL BE VERIFIED AND DOCUMENTED PRIOR TO PLACEMENT OF CONCRETE.			
INSPECT THE FABRICATED STEEL OR ERECTED STEEL FRAME, AS APPLICABLE, TO VERIFY COMPLIANCE WITH THE DETAILS SHOWN ON THE CONSTRUCTION DOCUMENTS.****	-	O	
INSPECT THE FABRICATED STEEL TO VERIFY COMPLIANCE WITH THE DETAILS SHOWN ON THE SHOP DRAWINGS.****	O	-	
INSPECT THE ERECTED STEEL FRAME TO VERIFY COMPLIANCE WITH THE FIELD INSTALLED DETAILS SHOWN ON THE ERECTION DRAWINGS.****	O	-	

(2022 CBC) REQUIRED VERIFICATION AND INSPECTION OF SEISMIC STEEL CONSTRUCTION PER AISC 341				
* WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES OR STIFFENERS HAS BEEN PERFORMED IN THE K-AREA, VISUALLY INSPECT THE WEB K-AREA FOR CRACKS WITHIN 3 INCHES (75 MM) OF THE WELD. THE VISUAL INSPECTION SHALL BE PERFORMED NO SOONER THAN 48 HOURS AFTER COMPLETION OF THE WELDING.				
OBSERVE (O); THE INSPECTOR SHALL OBSERVE THESE FUNCTIONS ON A RANDOM, DAILY BASIS. OPERATIONS NEED NOT BE DELAYED PENDING OBSERVATIONS.				
PERFORM (P); THESE INSPECTIONS SHALL BE PERFORMED PRIOR TO THE FINAL ACCEPTANCE OF THE ITEM.				
DOCUMENT (D); THE INSPECTOR SHALL PREPARE REPORTS INDICATING THAT THE WORK HAS BEEN PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE REPORT NEED NOT PROVIDE DETAILED MEASUREMENTS FOR JOINT FIT-UP, WPS SETTINGS, COMPLETED WELDS, OR OTHER INDIVIDUAL ITEMS LISTED IN THE TABLES. FOR SHOP FABRICATION, THE REPORT SHALL INDICATE THE REFERENCE GRID LINES AND FLOOR OR ELEVATION INSPECTED. WORK NOT IN COMPLIANCE WITH THE CONTRACT DOCUMENTS AND WHETHER THE NONCOMPLIANCE HAS BEEN SATISFACTORILY REPAIRED SHALL BE NOTED IN THE INSPECTION REPORT.				
QUALITY CONTROL (QC); INSPECTION TASKS SHALL BE PROVIDED BY THE FABRICATOR, ERECTOR OR OTHER RESPONSIBLE CONTRACTOR AS APPLICABLE.				
QUALITY ASSURANCE (QA); INSPECTION TASKS SHALL BE PROVIDED BY OTHERS WHEN REQUIRED BY THE AUTHORITY HAVING JURISDICTION (AHJ), APPLICABLE BUILDING CODE (ABC), PURCHASER, OWNER OR ENGINEER OF RECORD (EOR), NONDESTRUCTIVE TESTING (NDT) SHALL BE PERFORMED BY THE AGENCY OR FIRM RESPONSIBLE FOR QUALITY ASSURANCE, EXPECT AS PERMITTED IN ACCORDANCE WITH SPECIFICATION SECTION N6.				
INSPECTION TASKS PRIOR TO WELDING (AISC 2016 SEISMIC PROVISIONS TABLE J6.1)	QC		QA	
	TASK	DOCUMENT	TASK	DOCUMENT
MATERIAL IDENTIFICATION (TYPE/GRADE)	O	---	O	---
WELDER IDENTIFICATION SYSTEM	O	---	O	---
FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY)				
- JOINT PREPARATION	P/O**	---	O	---
- DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL)	P/O**	---	O	---
- CLEANLINESS (CONDITION OF STEEL SURFACES)	P/O**	---	O	---
- TACKING (TACK WELD QUALITY AND LOCATION)	P/O**	---	O	---
- BACKING TYPE AND FIT (IF APPLICABLE)	P/O**	---	O	---
CONFIGURATION AND FINISH OF ACCESS HOLES	O	---	O	---
FIT-UP OF FILLET WELDS				
- DIMENSIONS (ALIGNMENT, GAPS AT ROOT)	P/O**	---	O	---
- CLEANLINESS (CONDITION OF STEEL SURFACES)	P/O**	---	O	---
- TACKING (TACK WELD QUALITY AND LOCATION)	P/O**	---	O	---
**FOLLOWING PERFORMANCE OF THIS INSPECTION TASK FOR TEN WELDS TO BE MADE BY A GIVEN WELDER, WITH THE WELDER DEMONSTRATING UNDERSTANDING OF REQUIREMENTS AND POSSESSION OF SKILLS AND TOOLS TO VERIFY THESE ITEMS, THE PERFORM (P) DESIGNATION OF THIS TASK SHALL BE REDUCED TO OBSERVE (O), AND THE WELDER SHALL PERFORM THIS TASK. SHOULD THE INSPECTOR DETERMINE THAT THE WELDER HAS DISCONTINUED PERFORMANCE OF THIS TASK, THE TASK SHALL BE RETURNED TO PERFORM UNTIL SUCH TIME AS THE INSPECTOR HAS RE-ESTABLISHED ADEQUATE ASSURANCE THAT THE WELDER WILL PERFORM THE INSPECTION TASKS LISTED.				
INSPECTION TASKS DURING WELDING (AISC 2016 SEISMIC PROVISIONS TABLE J6.2)	QC		QA	
	TASK	DOCUMENT	TASK	DOCUMENT
WPS FOLLOWED				
- SETTINGS ON WELDING EQUIPMENT	O	---	O	---
- TRAVEL SPEED	O	---	O	---
- SELECTED WELDING MATERIALS	O	---	O	---
- SHIELDING GAS TYPE/FLOW RATE	O	---	O	---
- PREHEAT APPLIED	O	---	O	---
- INTERPASS TEMPERATURE MAINTAINED	O	---	O	---
- PROPER POSITION (F, V, H, OH)	O	---	O	---
- INTERMIX OF FILLER METALS AVOIDED UNLESS APPROVED	O	---	O	---
USE OF QUALIFIED WELDERS	O	---	O	---
CONTROL AND HANDLING OF WELDING CONSUMABLES				
- PACKAGING	O	---	O	---
- EXPOSURE CONTROL	O	---	O	---
ENVIRONMENTAL CONDITIONS				
- WIND SPEED WITHIN LIMITS	O	---	O	---
- PRECIPITATION AND TEMPERATURE	O	---	O	---
WELDING TECHNIQUES				
- INTERPASS AND FINAL CLEANING	O	---	O	---
- EACH PASS WITHIN PROFILE LIMITATIONS	O	---	O	---
- EACH PASS MEETS QUALITY REQUIREMENTS	O	---	O	---
NO WELDING OVER CRACKED TACK WELDS	O	---	O	---
INSPECTION TASKS AFTER WELDING (AISC 2016 SEISMIC PROVISIONS TABLE J6.3)	QC		QA	
	TASK	DOCUMENT	TASK	DOCUMENT
WELDS CLEANED	O	---	O	---
SIZE, LENGTH AND LOCATION OF WELDS	P	---	P	---
WELDS MEET VISUAL ACCEPTANCE CRITERIA				
- CRACK PROHIBITION	P	D	P	D
- WELD/BASE METAL FUSION	P	D	P	D
- CRATER CROSS SECTION	P	D	P	D
- WELD PROFILES	P	D	P	D
- WELD SIZE	P	D	P	D
- UNDERCUT	P	D	P	D
- PROPOSIOTY	P	D	P	D
K-AREA *	P	D	P	D
PLACEMENT OF REINFORCING OR CONTOURING FILLET WELDS (IF REQUIRED)	P	D	P	D
BACKING REMOVED AND WELD TABS REMOVED AND FINISHED, AND FILLET WELDS ADDED (IF REQUIRED)	P	D	P	D
REPAIR ACTIVITIES	P	---	P	D

(2022 CBC) REQUIRED VERIFICATION AND INSPECTION OF SEISMIC STEEL CONSTRUCTION PER AISC 341 (CONTINUED)				
INSPECTION TASKS PRIOR TO BOLTING (AISC 2016 SEISMIC PROVISIONS TABLE J7.1)	QC		QA	
	TASK	DOCUMENT	TASK	DOCUMENT
PROPER FASTENERS SELECTED FOR THE JOINT DETAIL	O	---	O	---
PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL	O	---	O	---
CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITIONS AND HOLE PREPARATIONS, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS	O	---	O	---
PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED	P	D	O	D
PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS, AND OTHER FASTENER COMPONENTS	O	---	O	---
INSPECTION TASKS DURING BOLTING (AISC 2016 SEISMIC PROVISIONS TABLE J7.2)	QC		QA	
	TASK	DOCUMENT	TASK	DOCUMENT
FASTENER ASSEMBLIES OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED	O	---	O	---
JOINT BROUGHT TO THE SNUG TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION	O	---	O	---
FASTENERS COMPONENT NOT TURNED BY THE WRENCH PREVENTING FROM ROTATING	O	---	O	---
FASTENERS ARE PRE-TENSIONED IN ACCORDANCE PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES	O	---	O	---
INSPECTION TASKS AFTER BOLTING (AISC 2016 SEISMIC PROVISIONS TABLE J7.3)	QC		QA	
	TASK	DOCUMENT	TASK	DOCUMENT
DOCUMENT ACCEPTANCE OR REDACTION OF BOLTED CONNECTIONS	P	D	P	D
OTHER INSPECTION TASKS (AISC 2016 SEISMIC PROVISIONS TABLE J8.1)	QC		QA	
	TASK	DOCUMENT	TASK	DOCUMENT
RBS REQUIREMENTS, IF APPLICABLE				
- CONTOUR AND FINISH	P	D	P	D
- DIMENSIONAL TOLERANCES	P	D	P	D
PROTECTED ZONE- NO HOLES AND UNAPPROVED ATTACHMENTS MADE BY FABRICATOR OR ERECTOR, AS APPLICABLE	P	D	P	D
INSPECTION OF COMPOSITE STRUCTURES PRIOR TO CONCRETE PLACEMENT (AISC 2016 SEISMIC PROVISIONS TABLE J9.1)	QC		QA	
	TASK	DOCUMENT	TASK	DOCUMENT
MATERIAL IDENTIFICATION OF REINFORCING STEEL (TYPE/GRADE)	O	---	O	---
DETERMINATION OF CARBON EQUIVALENT FOR REINFORCING STEEL OTHER THAN ASTM A706/A706M	O	---	O	---
PROPER REINFORCING STEEL SIZE, SPACING AND ORIENTATION	O	---	O	---
REINFORCING STEEL HAS NOT BEEN REBENT IN FIELD	O	---	O	---
REINFORCING STEEL HAS BEEN TIED AND SUPPORTED AS REQUIRED	O	---	O	---
REQUIRED REINFORCING STEEL CLEARANCES HAVE BEEN PROVIDED	O	---	O	---
COMPOSITE MEMBER HAS REQUIRED SIZE	O	---	O	---
INSPECTION OF COMPOSITE STRUCTURES DURING CONCRETE PLACEMENT (AISC 2016 SEISMIC PROVISIONS TABLE J9.2)	QC		QA	
	TASK	DOCUMENT	TASK	DOCUMENT
CONCRETE- MATERIAL IDENTIFICATION (MIX DESIGN, COMPRESSIVE STRENGTH, MAXIMUM LARGE AGGREGATE SIZE, MAXIMUM SLUMP)	O	D	O	D
LIMITS ON WATER ADDED AT THE TRUCK OR PUMP	O	D	O	D
PROPER PLACEMENT TECHNIQUES TO LIMIT SEGREGATION	O	---	O	---
INSPECTION OF COMPOSITE STRUCTURES AFTER TO CONCRETE PLACEMENT (AISC 2016 SEISMIC PROVISIONS TABLE J9.3)	QC		QA	
	TASK	DOCUMENT	TASK	DOCUMENT
ACHIEVEMENT OF MINIMUM SPECIFIED CONCRETE COMPRESSIVE STRENGTH AT SPECIFIED AGE	---	D	---	D