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SPECIAL INSPECTION

GENERAL NOTES

- All Special Inspection shall be provided in accordance with CBC Section 1704A and
- Where Special Inspection is required, all inspection or testing shall be provided by an "approved agency" in accordance with CBC Section 1702A.1, 1703A.1 and 1704A.1.
- Special Inspectors shall keep records of inspections. The Special Inspector shall furnish inspection reports to the Authority Having Jurisdiction, and to the Architect or Engineer of Record. Reports shall indicate that work inspected was done in conformance to approved construction documents. Discrepancies shall be brought to the immediate attention of the contractor for correction. If the discrepancies are not corrected, the discrepancies shall be brought to the attention of the Authority Having Jurisdiction and to the Architect or Engineer of Record prior to the completion of that phase of work. A final report documenting required Special Inspections and correction of any discrepancies noted in the inspections shall be submitted at a point in time agreed upon by the permit applicant and the Authority Having Jurisdiction prior to the start of work.
- Special Inspectors shall be approved by local Authority Having Jurisdiction in accordance with CBC Section 1704A.2.1.
- Local Authority Having Jurisdictions may require Special Inspection for "Special Cases" in accordance with CBC Section 1705A.1.1
- Contractor's responsibility: Each contractor responsible for the construction of a Main Lateral-Force-Resisting System, listed in the Statement of Special Inspection shall submit a written statement of responsibility to the Authority Having Jurisdiction and the owner prior to the commencement of work on the system or component. The contractor's statement of responsibility shall contain the following:
- A. Acknowledgement of awareness of the special requirements contained in the statement of special inspections;
- B. Acknowledgement that control will be exercised to obtain conformance with the construction documents approved by the Authority Having Jurisdiction; C. Procedures for exercised control within the contractor's organization, the
- method and frequency of reporting and the distribution of the reports; and D. Identification and qualifications of the person(s) exercising such control and their position(s) in the organization.
- Refer to Special Inspection requirements by other disciplines not included herein.

CONCRETE CONSTRUCTION³⁰

Ver	rification and Inspection	Continuous	Periodic
1.	Inspection of reinforcing steel including prestressing tendons, and placement. ^c		/
2.	Inspection of reinforcing steel welding in accordance with Table 1705.2.2, item 5b. ^d		V
3.	Inspection of anchors cast in concrete.e		√
4.	Inspection of anchors post installed in hardened concrete members. b,f,p		
5.	Verifying use of required design mix. ^g		✓
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. ^h	✓	
7.	Inspection of concrete and shotcrete placement for proper application techniques.	√	
8.	Inspection for maintenance of specified curing temperature and techniques.		✓
9.	Inspection of prestressed concrete: ^k a. Application of prestressing forces b. Grouting of bonded prestressing tendons in the Seismic Force-Resisting System	√ ·	
10.	Erection of precast concrete members.	and a description of the section of	✓
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. ^m		√
12.	Inspect formwork for shape, location and dimensions of the concrete member being formed. ⁿ		/

a. Where applicable, see also CBC Section 1705A.12, Special Inspections for seismic

- Specific requirements for Special Inspection shall be included in the research report for the anchor issued by an approved source in accordance with ACI 318-14 Section 17.8.2 or other requirements. 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. ACI 318: Ch. 20, 25.2, 25.3, 26.5-1-26.5.3, CBC: 1908A.4
- AWS D1.4, ACI 318: 26.5.4
- ACI 318: 17.8.2 ACI 318: 17.8.2.4, 17.8.2
- ACI 318: Ch. 19, 26.4.3, 26.4.4, CBC: 1904A.1, 1904A.2
- ASTM C172, ASTM C31, ACI 318: 26.4.5, 26.12, CBC: 1908A.10, 1908A.2, 1908A.3 ACI 318: 26.4.5, CBC: 1908A.6, 1908A.7, 1908A.8
- ACI 318: 26.4.7-26.4.9, CBC: 1908A.9 ACI 318: 26.9.2.1, 26.9.2.3
- ACI 318: Ch. 26.8
- n. ACI 318: 26.10.2
- ACI 318: 26.10.1 (b)
- CBC Section 1705A.3 and Table 1705A.3 See Special Cases Special Inspection for more requirements

Sī	TEEL CONSTRUCTION®		
Ve	rification and Inspection	Continuous	Periodi
Req	uired verification and inspection of steel construc	tion	
1.	Material verification of structural steel, cold-formed steel deck, high-strength bolts, nuts and washers:		
	a. For structural steel, identification markings to conform to AISC 360, or ASTM Standards Specified in approved Construction Documents. Manufacturer's certificate of compliance required.		/
2.	Material verification of structural steel or cold-form steel deck:		
	 a. Identification markings to conform to ASTM standards specified in the approved construction documents. 		/
	b. Manufacturer's certified test reports.		
3.	Inspection of high-strength bolting:		
and the second second	a. Snug-tight joints		/
	 Pretensioned and slip-critical joints using turn-of-nut with matchmarking, twist off bolt or direct tension indicator methods of installation 		/
	c. Pretensioned and slip-critical joints using turn-of-nut without matchmarking or calibrated wrench methods of installation	✓	
4.	Material verification of weld filler materials:		
	a. Identification markings to conform to AWS specification in the approved Construction Documents		/
	b. Manufacturer's certificate of compliance required		
5.	Inspection of welding:		Manusch NY 444 ANS SECTION REPORTS COLOR ESTABLISMENT
	a. Structural steel and cold formed steel		
	deck: 1) Complete and partial joint penetration groove welds		-
nu tirih manan	2) Multi-pass fillet welds	/	
	3) Single-pass fillet welds > ⅓ ₆ "	/	
one of the second of the secon	4) Plug and slot welds	/	ACCUS AND THE STORM OF CHARLES AND THE CHARLES
	5) Single-pass fillet welds < 5/16**		\ \
*****	6) Floor and roof deck welds ^c		
	b. Reinforcing steel: ^d		
	Verification of weldability of reinforcing steel other than ASTM A706.		/
	 Reinforcing steel resisting flexural and axial forces in intermediate and special moment frames, and boundary elements of special structural walls of concrete and shear reinforcement. 	✓	
ng mag bang sa	3) Shear reinforcement	/	
6.	4) Other reinforcing steel Inspection of steel frame joint details for compliance:		/
anatorio establismo	a. Details such as bracing and stiffening		
	b. Member locations		/
	c. Application of joint details at each connection		\
Insp	ection tasks prior to welding	na atar yana disharidara akasala salah kirin 1871-taryan asala yara yana denekaraki kata aga asa ya di	
1.	Welding procedure specifications (WSPs) available	/	
2.	Manufacturer certifications for welding consumables available		
3.	Material identification (type/grade)		
4.	Welder identification system ^e		
5.	Fit-up of groove welds (including joint geometry) Joint preparation, dimensions, cleanliness, tacking, backing type and fit		/
6.	Configuration and finish of access holes		/
7.	Fit-up of fillet welds Dimensions, cleanliness, tacking		/
8.	Check welding equipment		
Insp	ection tasks during welding		
1.	Use of qualified welders		/
2.	Control and handling of welding consumables Packaging, exposure control		/
3.	No welding over cracked tack welds		
4.	Environmental conditions Wind speed within limits, precipitation and temperature		/

Ve	rification and Inspection	Continuous	Periodic
Insp	ection tasks during welding (Continued)	nenographic MARTiconoproblement and grave representation and substitute of the Article Science (Article Science Scienc	`
5.	WPS followed Settings on welding equipment, travel speed, selected welding materials, shielding gas type/flow rate, preheat applied, interpass temperature maintained min./max.), proper position (F, V, H, OH)		✓
6.	Welding techniques Interpass and final cleaning, each pass within profile limitations		/
Insp	ection tasks after welding	kennen suuren on enemanata suuren kennen kennen kanan kennen kennen kennen kennen kennen kennen kennen kennen k	
1.	Welds cleaned	edentalisme til til mitte sin et eksiste en	/
2.	Size, length and location of welds	/	
3.	Welds meet visual acceptance criteria Crack prohibition, weld/base-metal fusion, crater cross section, weld profiles, weld size, undercut, porosity	√	
4.	Arc strikes	✓	Principal debuggian
5.	k-Area ^f	√	
6.	Backing removed and weld tabs removed (if required)	/	
7.	Repair activies	✓	
8	Document acceptance or rejection of welded joint or member	✓	CL-SA-AND PROPERTY AND PROPERTY
Insp	ection tasks prior to bolting ^g		<u> </u>
1.	Manufacturer's certifications available for fastener materials	√	
2.	Fasteners marked in accordance with ASTM requirements		/
3.	Proper fasteners selected for the joint detail (grade, type, bolt length if threads are to be excluded from shear plane)		✓
4.	Proper bolting procedure selected for joint detail		/
5.	Connecting elements, including the appropriate faying surface condition and hole preparation, if specified, meet applicable requirements		✓
6.	Pre-installation certification testing by installation personnel observed and documented for fastener assemblies and methods used		✓
7.	Proper storage provided for bolts, nuts, washer and other fastener components		/
Insp	ection tasks during bolting	destinant from the executive and control about the executive and t	
1.	Fastener assemblies, of suitable condition, placed in all holes and washers (if required) are positioned as required		/
2.	Joint brought to the snug-tight condition prior to the pretensioning operation		/
3.	Fastener component not turned by the wrench prevented from rotating		/
4.	Fasteners are pretensioned in accordance with the RCSC specification, progressing systematically from the most rigid point toward the free edges, see Minimum Bolt Pretension table below		/
Insp	ection tasks after bolting	Mining de ug MAR-mining (to the consistence and a three consistence and a second and a consistence and a second	
1.	Document acceptance or rejection of bolted	/	

a. CBC Section 1705A.2 and Table 1705A.2.2

AWS D1.4, ACI 318: Section 3.5.2

(see minimum pre-tension chart below).

The fabricator or erector, as applicable, shall maintain a system by which a welder

who has welded a joint or member can be identified. Stamps, if used, shall be the

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 of the weld

pre-tension by a Skidmore-Welhelm calibrator for each batch or source of bolts used

All methods of installation for high strength bolts shall require verification of

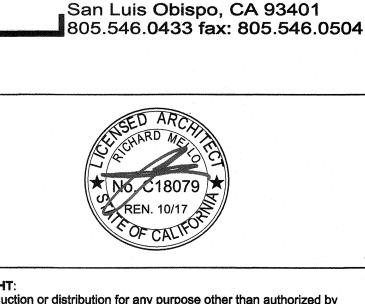
CBC Section 1707A.11.1

AWS D1.3

low-stress type.

Periodic V 1.	Inspect drilling operations and maintain complete and accurate records for each element. 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.	Continuous ✓	Periodio
2.	complete and accurate records for each element. 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	✓	
-	confirm element diameters, bell diameters (if applicable), lengths, embedment into bedrock (if applicable) and adequate end bearing strata capacity. Record concrete or	√	
, 3			
	For concrete elements, perform additional inspections and see Concrete Construction chart, this sheet, in accordance with CBC Section 1705A.3.		
<u>√</u> <u>h</u> <u>a</u>	lotes: Cast-in-place Deep Foundations . CBC Section 1705A.8 and Table 1705A.8		
de la constantina del constantina de la constantina de la constantina del constantina de la constantin			

Vei	rification and Inspection	Continuous	Perio
1.	Inspect drilling operations and maintain complete and accurate records for each element.	\	
2.	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.	✓	
3.	For concrete elements, perform additional inspections and see Concrete Construction chart, this sheet, in accordance with CBC Section 1705A.3.		



ARCHITECTURE PLANNING

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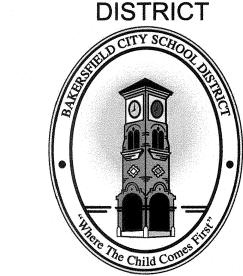
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> STRUCTURAL NOTES

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