TABLE "A" REINFORCEMENT TENSION LAPS, EMBEDMENT LENGTHS AND HOOK LENGTHS fy=60000 PSI

fc = 3,000 PSI					fc = 4,000 PSI				
BAR SIZE	LAP CLASS	SPLICE TOP	SPLICE OTHER	HOOK LENGTH	BAR SIZE	LAP CLASS	SPLICE TOP	SPLICE OTHER	HOOK LENGTH
#3	A	20"	16"	8"	#3	A	18"	14"	7"
	B	27"	21"			B	23"	18"	
#4	A	28"	22"	11"	#4	A	25"	19"	9"
	B	36"	28"			B	32"	25"	
#5	A	36"	27"	13"	#5	A	31"	24"	12"
	B	46"	36"			B	40"	31"	
#6	A	43"	33"	16"	#6	A	37"	28"	14"
	B	56"	43"			B	48"	37"	
#7	A	62"	48"	18"	#7	A	54"	42"	16"
	B	81"	62"			B	70"	54"	

NOTES:

1. LENGTHS SHOWN CONFORM WITH NON-SEISMIC PROVISIONS OF THE CURRENT EDITION OF ACI 318 FOR UNCOATED BARS NOT ENCLOSED BY CLOSELY SPACED SPIRALS OR TIES. DEVELOPMENT OF REINFORCEMENT NOT COVERED BY THE TABLE SHALL CONFORM WITH THE CURRENT EDITION OF ACI 318.
2. BAR CLEAR SPACING IS THE CENTER TO CENTER BAR SPACING MINUS TWO BAR DIAMETERS WHEN ALL BARS ARE LAPPED AT THE SAME LOCATION. THE BAR CLEAR SPACING IS TWICE THE CENTER TO CENTER BAR SPACING MINUS TWO BAR DIAMETERS. WHEN ALL BARS ARE EMBEDDED AT THE SAME LOCATION, THE BAR CLEAR SPACING IS THE CENTER TO CENTER BAR SPACING MINUS ONE BAR DIAMETER.
3. CLASS A LAP LENGTHS APPLY WHEN BAR LAPS ARE STAGGERED TO LAP HALF THE BARS AT THE SAME LOCATION OR WHEN BARS ARE LAPPED AT A LOCATION OF MINIMUM STRESS IN THE BARS.
4. LAP AND EMBEDMENT LENGTHS SHOWN APPLY WHEN BAR MINIMUM CONCRETE COVER OVER BARS CONFORMS WITH VALUES GIVEN IN THE TABLE FOR "CONCRETE COVER". THESE COVER VALUES CONFORM WITH THE CURRENT EDITION OF ACI 318.
5. CLASS A LAP AND EMBEDMENT LENGTH HAVE THE SAME VALUE.
6. CLASS B LAP LENGTHS APPLY WHEN ALL BARS ARE SPLICED AT A LOCATION OF MAXIMUM STRESS IN THE BARS.
7. HOOK LENGTH GIVEN IS THE STRAIGHT LINE DISTANCE FROM THE LOCATION OF MAXIMUM STRESS IN THE BAR TO THE OUTSIDE END OF THE HOOK. MULTIPLY LENGTHS GIVEN BY 0.7 FOR HOOKS WITH SIDE COVER NORMAL TO THE HOOK NOT LESS THAN 2 1/2 INCHES AND FOR 90 DEGREE HOOKS COVER ON BAR EXTENSION BEYOND HOOK NOT LESS THAN 2 INCHES.
8. TOP BARS ARE HORIZONTAL REINFORCEMENT PLACED SO THAT MORE THAN 12 INCHES OF CONCRETE IS CAST BELOW THE REINFORCEMENT.
9. MULTIPLY LAP AND EMBEDMENT LENGTHS BY 2.0 FOR BARS WITH CLEAR SPACING OF TWO BAR DIAMETERS OR LESS OR CONCRETE COVER OF ONE BAR DIAMETER OR LESS.
10. MINIMUM CONCRETE COVER FROM FACE OF MEMBER TO EDGE BAR SHALL NOT BE LESS THAN TWO AND ONE HALF BAR DIAMETERS.

SPECIAL INSPECTION NOTES

IN ACCORDANCE WITH THE REQUIREMENTS OF CHAPTER 17 OF THE BUILDING CODE, THE OWNER SHALL EMPLOY QUALIFIED PERSONNEL TO PERFORM THE FOLLOWING SPECIAL INSPECTIONS AND REPORT THE FINDINGS TO THE ENGINEER AND BUILDING OFFICIAL. THIS DOES NOT RELIEVE THE CONTRACTOR OF ANY RESPONSIBILITY TO PERFORM WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL NOTIFY THE INSPECTOR 48 HOURS IN ADVANCE OF ALL INSPECTIONS.

SPECIAL REQUIRED INSPECTIONS CFS TRUSSES

SPECIAL INSPECTIONS OF FRAMING CONNECTIONS AND ANCHORAGES FOR THE PREFABRICATED COLD-FORMED STEEL TRUSSES SHALL BE IN COMPLIANCE WITH AISI 200 SECTION D

STATEMENT OF SPECIAL INSPECTION (**PER INTERNATIONAL BUILDING CODE 2006**)

SOURCE AND FIELD QUALITY CONTROL REQUIREMENTS ARE ALSO STATED IN THE SPECIFICATIONS. COMPLY WITH THE MORE STRINGENT OF THE SPECIFICATIONS AND THESE REQUIREMENTS FOR SPECIAL INSPECTION.

GENERAL

SPECIAL INSPECTIONS SHALL BE PERFORMED FOR THIS FACILITY IN ACCORDANCE WITH THE STATEMENT OF SPECIAL INSPECTIONS PER IBC 2006 SECTION 1705 AND ARE IN ADDITION TO THOSE REQUIRED BY IBC 2006 SECTION 110.

SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON(S) WHO SHALL DEMONSTRATE COMPETENCE, FOR INSPECTION OF THE TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.

SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE PROJECT MANAGER, AND TO THE ENGINEER OF RECORD, DISTRIBUTED ON A REGULAR BASIS. REPORTS SHALL INDICATE THAT WORK INSPECTED WAS PERFORMED IN CONFORMANCE WITH APPROVED CONSTRUCTION DOCUMENTS, OR INDICATE DISCREPANCIES. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE PROJECT MANAGER AND ENGINEER OF RECORD.

SUBMIT A FINAL REPORT DOCUMENTING ALL SPECIAL INSPECTIONS FOR EACH TYPE OF CONSTRUCTION, INCLUDE RESOLUTIONS AND/OR CORRECTIONS FOR ANY NOTED DISCREPANCIES. FINAL REPORT SHALL BE SIGNED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER.

SUBCONTRACTOR RESPONSIBILITY:

EACH SUBCONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A MAIN WIND OR SEISMIC FORCE-RESISTING SYSTEM OR WIND OR SEISMIC FORCE RESISTING COMPONENT LISTED SHALL SUBMIT A WRITTEN SUBCONTRACTOR'S STATEMENT OF RESPONSIBILITY TO THE PROJECT MANAGER AND TO THE ENGINEER OF RECORD PRIOR TO THE COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT.

SUBCONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL CONTAIN THE FOLLOWING:

1. ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE QUALITY ASSURANCE PLAN.
2. ACKNOWLEDGEMENT THAT CONTROL WILL BE EXERCISED TO OBTAIN CONFORMANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS.
3. PROCEDURES FOR EXERCISING CONTROL WITHIN THE SUBCONTRACTOR'S ORGANIZATION, THE METHOD AND FREQUENCY OF REPORTING AND THE DISTRIBUTION OF THE REPORTS.
4. IDENTIFICATION AND QUALIFICATIONS OF THE PERSON(S) EXERCISING SUCH CONTROL AND THEIR POSITION(S) WITHIN THE ORGANIZATION.

FOR ITEMS REQUIRING PERIODIC INSPECTION: INSPECT WORK PERFORMED ON THE FIRST DAY ANY CONSTRUCTION ACTIVITY REQUIRING SPECIAL INSPECTION. INSPECT WORK ON A PERIODIC BASIS THEREAFTER FOR THE DURATION OF THE ACTIVITY.

FOR ITEMS REQUIRING CONTINUOUS INSPECTION: INSPECT WORK ON A FULL-TIME BASIS, AND BE PRESENT IN THE AREA FOR THE DURATION OF THE ACTIVITY.

INSPECTION OF FABRICATORS

THE SPECIAL INSPECTOR SHALL VERIFY THAT THE FABRICATOR MAINTAINS DETAILED FABRICATION AND CONTROL PROCEDURES THAT PROVIDE A BASIS FOR INSPECTION CONTROL OF THE WORKMANSHIP AND THE FABRICATOR'S ABILITY TO CONFORM WITH APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS PRIOR TO THE START OF WORK.

SPECIAL INSPECTOR SHALL REVIEW THE PROCEDURES FOR COMPLETENESS AND ADEQUACY RELATIVE TO THE CODE REQUIREMENTS FOR THE FABRICATOR'S SCOPE PRIOR TO THE START OF WORK.

FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE PROJECT MANAGER AND TO THE ENGINEER OF RECORD STATING THAT THE WORK WAS PERFORMED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS AT COMPLETION OF WORK.

STEEL CONSTRUCTION (REFERENCE IBC-2006, SECT 1705.2.1 - REFER TO AISC 360-16 ED CHAPTER N)

MATERIAL VERIFICATION OF STRUCTURAL STEEL
(1) IDENTIFICATION MARKING TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS,
(2) SUBMITTAL OF MANUFACTURER'S CERTIFIED MILL TEST REPORTS TO ENGINEER OF RECORD.

FOR THE FOLLOWING TABLES:
O- OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS.
P- PERFORM THESE TASKS FOR EACH WELDED/BOLTED JOINT OR STEEL MEMBER

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2005-S002-SPECIAL INSPECTIONS

SOILS (IBC 2006 - TABLE 1705.6 - REQUIRED VERIFICATION AND INSPECTIONS)

VERIFICATION AND INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODIC DURING TASK LISTED
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	--	X
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL	--	X
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	--	X
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X	--
5. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	--	X

CONCRETE MATERIALS CONSTRUCTION (IBC 2006 - TABLE 1705.3 - REQUIRED VERIFICATION AND INSPECTIONS)

VERIFICATION AND INSPECTIONS	REFERENCE STANDARD	CONTINUOUS	PERIODIC
1. REINFORCING STEEL	VERIFY PRIOR TO PLACING CONCRETE THAT REINFORCING IS OF SPECIFIED TYPE, GRADE AND SIZE; THAT IT IS FREE OF OIL, DIRT AND REUST; THAT IT IS LOCATED AND SPACED PROPERLY; THAT HOOKS, BENDS TIES, STIRRUPS AND SUPPLIMENTAL REINFORCEMENT ARE PLACED CORRECTLY, THAT LAP LENGTHS, STAGGER ANDOFFSETS ARE PROVIDED; AND THAT ALL MECHANICAL CONNECTIONS ARE INSTALLED PER THE MANUFACTURES INSTRUCTIONS AND/OR EVALUATION REPORT.	--	X
2. CAST-IN BOLTS & EMBEDS	INSPECTION OF ANCHORS OR EMBEDS CAST IN CONCRETE IS REQUIRED WHEN ALLOWABLE LOADS HAVE BEEN INCREACED OR WHERE STRENGTH DESIGN IS USED.	--	X
3. POST-INSTALLED ANCHORS OR DOWELS	ALL POST-INSTALLED ANCHORS/DOWELS SHALL BE SPECIALLY INSPECTED AS REQUIRED BY THE APPROVED ICC-ES REPORT.	--	X
4. USE OF REQUIRED DESIGN MIX	VERIFY THAT ALL MIXES USED COMPLY WITH THE APPROVED CONSTRUCTION DOCUMENTS; ACI 318: CH. 4, 5.2-5.4; AND IBC 1904.3, 1932.2, 1913.3.	--	X
5. CONCRETE SAMPLING FOR STRENGTH TESTS, SLUMP, AIR CONTENT, AND TEMPERATURE		X	--
6. CONCRETE PLACEMENT		X	--
7. CURING TEMPERATURE AND TECHNIQUES	VERIFY THAT THE AMBIENT TEMPERATURE FOR CONCRETE IS KEPT AT >50°F FOR AT LEAST 7 DAYS AFTER PLACEMENT. HIGH-EARLY-STRENGTH CONCRETE SHALL BE KEPT AT >50°F FOR AT LEAST 3 DAYSACCLERATED CURING METHODS MAY BE USED (SEE ACI 318: 5.11.3). THE ABMIENT TEMPERATURE FOR SHOTCRETE SHALL BE >40°F FOR THE SAME PERIOD OF TIME AS NOTED FOR CONCRETE. SHOTCRETE SHALL BE KEPT CONTINUOUSLY MOIST FOR AT LEAST 24 HOURS AFTER SHOTCRETING. ALL CONCRETE MATERIALS, REINFORCEMENT, FORMS, FILLERS, AND GROUND SHALL BE FREE FROM FROST. IN HOT WEATHER CONDITIONS ENSURE THAT APPROPRIATE MEASURES ARE TAKEN TO AVOID PLASTIC SHRINKAGE CRACKING AND THAT THE SPECIFIED WATER/CEMENT RATIO IS NOT EXCEEDED.	--	X
8. FORMWORK	VERIFY THAT THE FORMS ARE PLACED PLUMB AND CONFORM TO THE SHAPES, LINES, AND DIMENSIONS OF THE MEMBERS AS REQUIRED BY THE APPROVED CONSTRUCTION DOCUMENTS.	--	X
9. REINFORCEMENT COMPLYING WITH ASTM A 615 IN SPECIAL MOMENT FRAMES, SPECIAL STRUCTURAL WALLS AND COUPLING BEAMS	VERIFY THAT ASTM A 615 REINFORCING STEEL USED IN THESE AREAS COMPLIES WITH ACI318: 21.1..5.2 BY MEANS OF CERTIFIED MILL TEST REPORTS. IF THIS REINFORCING STEEL IS TO BE WELDED CHEMICAL TESTS SHALL BE PERFORMED IN ACCORDANCE WITH ACI 318: 3.5.2.	--	X

AISC 360-16. TABLE N5.4-1 (INSPECTION TASKS PRIOR TO WELDING)

INSPECTION TASKS PRIOR TO WELDING	QC	QA
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 JOINT GEOMETRY) • JOINT PREPARATION • DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) • CLEANLINESS (CONDITION OF STEEL SURFACES) • TACKING (TACK WELD QUALITY AND LOCATION) • BACKING TYPE AND FIT (IF APPLICABLE)	O	O
CONFIGURATION AND FINISH OF ACCESS HOLES	O	O
FIT-UP OF FILLET WELDS • DIMENSIONS (ALIGNMENT, GAPS AT ROOT) • CLEANLINESS (CONDITION OF STEEL SURFACES) • TACKING (TACK WELD QUALITY AND LOCATION)	O	O
CHECK WELDING EQUIPMENT	O	-

AISC 360-16. TABLE N5.4-2 (INSPECTION TASKS DURING WELDING)

INSPECTION TASKS DURING WELDING	QC	QA
USE OF QUALIFIED WELDERS	O	O
CONTROL AND HANDLING OF WELDING CONSUMABLES • PACKAGING • EXPOSURE CONTROL	O	O
NO WELDING OVER CRACKED TACK WELDS	O	O
ENVIRONMENTAL CONDITIONS • WIND SPEED WITHIN LIMITS • PRECIPITATION AND TEMPERATURE	O	O
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)	O	O
WELDING TECHNIQUES • INTERPASS AND FINAL CLEANING • EACH PASS WITHIN PROFILE LIMITATIONS • EACH PASS MEETS QUALITY REQUIREMENTS	O	O

AISC 360-16 TABLE N5.4-3 (INSPECTION TASKS AFTER WELDING)

INSPECTION TASKS AFTER WELDING	QC	QA
WELDS CLEANED	O	O
SIZE, LENGTH AND LOCATION OF WELDS	P	P
WELDS MEET VISUAL ACCEPTANCE CRITERIA • CRACK PROHIBITION • WELD/BASE- METAL FUSION • CRATER CROSS SECTION • WELD PROFILES • WELD SIZE • UNDERCUT • POROSITY	P	P
ARC STRIKES	P	P
K-AREA	P	P
BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)	P	P
REPAIR ACTIVITIES	P	P
DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	P	P

AISC 360-16 TABLE N5.6-1 (INSPECTION TASKS PRIOR TO BOLTING)

INSPECTION TASKS PRIOR TO BOLTING	QC	QA
MFRs CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	O	P
FASTENERS MARKED IN ACCORDANCE W/ ASTM REQUIREMENTS	O	O
PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM THE SHEAR PLANE)	O	O
PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL	O	O
CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS	O	O
PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED	P	O
PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS	O	O

AISC 360-16 TABLE N5.6-2 (INSPECTION TASKS DURING BOLTING)

INSPECTION TASKS DURING BOLTING	QC	QA
FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED	O	O
JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION	O	O
FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING	O	O
FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES	O	O

AISC 360-16 TABLE N5.6-3 (INSPECTION TASKS AFTER BOLTING)

INSPECTION TASKS AFTER BOLTING	QC	QA
DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	O	O

STEEL CONSTRUCTION OTHER THAN STRUCTURAL STEEL (IBC 2006 - TABLE 1705.2.2 - REQUIRED VERIFICATION AND INSPECTIONS)

VERIFICATION AND INSPECTIONS - CONT'D	CONTINUOUS	PERIODIC
1. MATERIAL VERIFICATION OF COLD-FORMED STEEL DECK:		
a. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	--	X
b. MANUFACTURER'S CERTIFIED TEST REPORTS.	--	X
2. INSPECTION OF WELDING:		X
a. COLD-FORMED STEEL DECK.		
1) FLOOR AND ROOF DECK WELDS.	--	
b. REINFORCING STEEL:		
1) 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.	X	--
2) SHEAR REINFORCEMENT.	X	--
3) OTHER REINFORCING STEEL.	--	X
3. INSPECTION OF ROOF DECK ATTACHMENTS		
1) FLOOR AND ROOF DECK WELDS.	--	X
2) FLOOR AND ROOF DECK SCREWS AND PINS.	--	X

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SPECIAL INSPECTIONS

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