GENERAL NOTES

TABLE 8 (ANSI/AISC 341 APPENDIX Q) REQUIRED VERIFICATION AND INSPECTION OF SLRS			TABLE 2 (CBC TABLE 1704.4) REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION		
8.1.1 VISUAL INSPECTION TASKS BEFORE WELDING	TASK	DOC	VERIFICATION AND INSPECTION TASK	CONTINUOUS	S PERIO
MATERIAL IDENTIFICATION (TYPE/GRADE)	0	_	INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS, AND PLACEMENT.	_	Х
FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY)	4		2. INSPECTION OF REINFORCING STEEL WELDING IN		
- JOINT PREPARATION	4		ACCORDANCE WITH TABLE 1, ITEM 5B. 3. INSPECT BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO AND		
- DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) - CLEANLINESS (CONDITION OF STEEL SURFACES)	0	_	DURING PLACEMENT OF CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED OR WHERE STRENGTH DESIGN IS USED.	X	_
- TACKING (TACK WELD QUALITY AND LOCATION)	1		4. INSPECTION OF ANCHORS INSTALLED IN HARDENED CONCRETE.		X
- BACKING TYPE AND FIT (IF APPLICABLE)	1		5. VERIFYING USE OF REQUIRED DESIGN MIX.	_	Х
CONFIGURATION AND FINISH OF ACCESS HOLES	0	_	6. AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND	V	
FIT-UP OF FILLET WELDS			AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	_
- DIMENSIONS (ALIGNMENT, GAPS AT ROOT)	0	_	7. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	Х	<u> </u>
- CLEANLINESS (CONDITION OF STEEL SURFACES)	-		INSPECTION FOR MAINTENANCE OF SPECIFIED CURING		X
- TACKING (TACK WELD QUALITY AND LOCATION) 8.1.2 VISUAL INSPECTION TASKS DURING WELDING	TASK	DOC	TEMPERATURE AND TECHNIQUES. 9. INSPECTION OF PRESTRESSED CONCRETE:		^
WPS FOLLOWED	- men		A. APPLICATION OF PRESTRESSING FORCES. B. GROUTING OF BONDED PRESTRESSING TENDONS IN THE	X X	_
- SETTINGS ON WELDING EQUIPMENT	1		SEISMIC-FORCE-RESISTING SYSTEM.	^	
- TRAVEL SPEED			10. ERECTION OF PRECAST CONCRETE MEMBERS. 11. VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO	_	X
- SELECTED WELDING MATERIALS			STRESSING OF TENDONS IN POSTTENSIONED CONCRETE AND	_	X
- SHIELDING GAS TYPE/ FLOW RATE	0	_	PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.		
- PREHEAT APPLIED	4		12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	_	X
- INTERPASS TEMPERATURE MAINTAINED (MIN/ MAX)	4				<u> </u>
- PROPER POSITION (F, V, H, OH) - INTERMIX OF FILLER METALS AVOIDED UNLESS APPROVED	4		TABLE 3 (CBC 1704.7) REQUIRED VERIFICATION AND INSPECTION OF SO	 VILS	
USE OF QUALIFIED WELDERS	0		VERIFICATION AND INSPECTION TASK	CONTINUOUS	S PERIO
CONTROL AND HANDLING OF WELDING CONSUMABLES		_	VERIFY MATERIALS BELOW SHALLOW FOOTINGS ARE		X
- PACKAGING	0	_	ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY. 2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH		^
- EXPOSURE CONTROL	1		AND HAVE REACHED PROPER MATERIAL.	_	X
ENVIRONMENTAL CONDITIONS			3. PERFORM CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS.	_	X
- WIND SPEED WITHIN LIMITS	0	_	4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT		
- PRECIPITATION AND TEMPERATURE			THICKNESSES DURING PLACEMENT AND COMPACTION OF CONTROLLED FILL.	X	_
WELDING TECHNIQUES	_		5. PRIOR TO PLACEMENT OF CONTROLLED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	_	Х
- INTERPASS AND FINAL CLEANING	0	_	AND VERTIFICATION DELIVER THE PROPERTY.		
- EACH PASS WITHIN PROFILE LIMITATIONS	-		TABLE 5 (CBC TABLE 1704.5.1) LEVEL 1 VERIFICATION AND INSPECTION OF CMU CONS	TRUCTION	
- EACH PASS MEETS QUALITY REQUIREMENTS NO WELDING OVER CRACKED TACKS	0		VERIFICATION AND INSPECTION TASK	CONTINUOUS	S PERIO
8.1.3 VISUAL INSPECTION TASKS AFTER WELDING	TASK	DOC	COMPLIANCE WITH REQUIRED INSPECTION PROVISIONS OF THE		
WELDS CLEANED	0		CONSTRUCTION DOCUMENTS AND THE APPROVED SUBMITTALS SHALL BE VERIFIED.	_	X
WEDER IDENTIFICATION LEGIBLE	0	_	2. VERIFICATION OF I'm PRIOR TO CONSTRUCTION.	_	X
VERIFY SIZE, LENGTH AND LOCATION OF WELDS	0	_	3. AS MASONRY CONSTRUCTION BEGINS, THE FOLLOWING SHALL BE VERIFY TO ENSURE COMPLIANCE:		
VISUALLY INSPECT WELDS TO ACCEPTANCE CRITERIA			A. PROPORTIONS OF SITE-PREPARED MORTAR.		X
- CRACK PROHIBITION	4		B. CONSTRUCTION OF MORTAR JOINTS.		Х
- WELD/ BASE-METAL FUSION	4		C. LOCATION OF REINFORCEMENT. 4. DURING CONSTRUCTION THE INSPECTION PROGRAM SHALL VERIFY:		X
- CRATER CROSS-SECTION - WELD PROFILES	P	D	A. SIZE AND LOCATION OF STRUCTURAL ELEMENTS.	_	X
- WELD SIZE			B. TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER		
- UNDERCUT	1		DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES OR OTHER CONSTRUCTION.	_	X
- POROSITY	1		C. SPECIFIED SIZE, GRADE AND TYPE OF REINFORCEMENT, ANCHOR BOLTS AND ANCHORAGES.	_	Х
PLACEMENT OF REINFORCEMENT FILLETS	Р	D	D. WELDING OF REINFORCING BARS.	Х	
BACKING BARS REMOVED AND WELD TABS REMOVED AND	Р	D	E. PREPARATION, CONSTRUCTION AND PROTECTION OF MASONRY		
FINISHED (IF REQUIRED) REPAIR ACTIVITIES	P	D	DURING COLD WEATHER (TEMPERATURE BELOW 40°F) OR HOT WEATHER (TEMPERATURE ABOVE 90°F).		X
8.2.1 INSPECTION TASKS PRIOR TO BOLTING	TASK	DOC	5. PRIOR TO GROUTING, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE.		
PROPER BOLTS SELECTED FOR THE JOINT DETAIL	0	1 500	A. GROUT SPACE IS CLEAN.		X
PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL	0		B. PLACEMENT OF REINFORCEMENT.		Х
CONNECTING ELEMENTS ARE FABRICATED PROPERLY,		_	C. PROPORTIONS OF SITE-PREPARED GROUT. D. CONSTRUCTION OF MORTAR JOINTS.		X
INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEETS APPLICABLE	0	_	6. GROUT PLACEMENT SHALL BE VERIFIED TO ENSURE COMPLIANCE	_	
REQUIREMENTS	1		WITH CODE AND CONSTRUCTION DOCUMENT PROVISIONS. 7. PREPARATION OF ANY REQUIRED GROUT SPECIMENS,	X	-
PRE-INSTALLATION VERIFICATION TESTING CONDUCTED FOR FASTENER ASSEMBLIES AND METHODS USED	0	D	MORTAR SPECIMENTS AND/OR PRISMS SHALL BE OBSERVED.	Х	-
PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS	0	_			
8.2.2 INSPECTION TASKS DURING BOLTING	TASK	DOC			
FASTENER ASSEMBLIES PLACED IN ALL HOLES AND WASHERS	IASK	DOC			
(IF REQUIRED) ARE PROPERLY POSITIONED	0	-			
JOINT BROUGHT TO THE SNUG TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION	0	_			
FASTENER COMPONENT NOT TURNED BY THE WRENCH					
PREVENTED FROM ROTATING	0	_	KEY		
BOLTS ARE PRETENSIONED PROGRESSING SYSTEMATICALLY FROM MOST RIGID POINT TOWARD FREE EDGES	0	_	DOCUMENT (D) - THE INSPECTOR SHALL PREPARE REPORTS INDICATING		
8.2.3 INSPECTION TASKS AFTER BOLTING	TASK	DOC	HAS BEEN PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUME NEED NOT PROVIDE DETAILED MEASUREMENTS FOR JOINT FIT-UP, WPS	ENTS. THE REF SETTINGS,	PORT
DOCUMENT ACCEPTED AND REJECTED CONNECTIONS	P	D	COMPLETED WELDS, OR OTHER INDIVIDUAL ITEMS LISTED IN THE TABLE FABRICATION, THE REPORT SHALL INDICATE THE PIECE MARK OF THE PI	8. FOR SHOP	
8.3.1 OTHER INSPECTION TASK	TASK	DOC	FOR FIELD WORK, THE REPORT SHALL INDICATE THE REFERENCE GRID OR ELEVATION INSPECTED. WORK NOT IN COMPLIANCE WITH THE CONT	LINES AND FLO	OOR
REDUCED BEAM SECTION (RBS) REQUIREMENTS, IF APPLICABLE			AND WHETHER THE NONCOMPLIANCE HAS BEEN SATISFACTORILY REPA		
- CONTOUR AND FINISH	Р	D	OBSERVE (O) - THE SPECIAL INSPECTOR SHALL OBSERVE THESE FUNCT	TONS ON A RA	ANDOM
- DIMENSIONAL TOLERANCES			DAILY BASIS. WELDING OPERATIONS NEED NOT BE DELAYED PENDING C		•
PROTECTED ZONE - NO HOLES AND UNAPPROVED	Р	D	PERFORM (P) - THESE INSPECTIONS SHALL BE PERFORMED PRIOR TO THE ACCEPTANCE OF THE ITEM.	HE FINAL	
ATTACHMENTS MADE BY CONTRACTOR			ACOLI IANOL OI ITIL ITEIVI.		

STATEMENT OF SPECIAL INSPECTIONS (CONTINUED)

B. ARCHITECTURAL COMPONENTS: PERIODIC SPECIAL INSPECTION IS REQUIRED DURING THE ERECTION AND FASTENING OF EXTERIOR CLADDING, INTERIOR AND EXTERIOR NONBEARING WALLS, AND INTERIOR AND EXTERIOR VENEER. SPECIAL INSPECTION IS NOT REQUIRED FOR EXTERIOR CLADDING. INTERIOR AND EXTERIOR NONBEARING WALLS AND INTERIOR AND EXTERIOR VENEER 30 FEET OR LESS IN HEIGHT ABOVE GRADE OR

WALKING SURFACE. 2) SPECIAL INSPECTION IS NOT REQUIRED FOR EXTERIOR CLADDING AND INTERIOR AND EXTERIOR VENEER WEIGHING 5 PSF OR LESS.

3) SPECIAL INSPECTION IS NOT REQUIRED FOR INTERIOR NONBEARING WALLS WEIGHING 15 PSF OR LESS.

C. MECHANICAL AND ELECTRICAL COMPONENTS: SPECIAL INSPECTION FOR MECHANICAL AND ELECTRICAL EQUIPMENT AS FOLLOWS: 1) PERIODIC SPECIAL INSPECTION IS REQUIRED DURING THE ANCHORAGE

OF ELECTRICAL EQUIPMENT FOR EMERGENCY OR STANDBY POWER SYSTEMS. 2) PERIODIC SPECIAL INSPECTION IS REQUIRED DURING THE INSTALLATION OF ANCHORAGE OF OTHER ELECTRICAL EQUIPMENT. 3) PERIODIC SPECIAL INSPECTION IS REQUIRED DURING INSTALLATION OF

HIGHLY TOXIC CONTENTS AND THEIR ASSOCIATED MECHANICAL UNITS. 4) PERIODIC SPECIAL INSPECTION IS REQUIRED DURING INSTALLATION OF HVAC DUCTWORK THAT WILL CONTAIN HAZARDOUS MATERIALS. 5) PERIODIC SPECIAL INSPECTION IS REQUIRED DURING THE INSTALLATION OF VIBRATION ISOLATION SYSTEMS WHERE THE CONSTRUCTION DOCUMENTS REQUIRE A NOMINAL CLEARANCE OF 0.25 INCH OR LESS BETWEEN THE EQUIPMENT AND THE SUPPORT FRAME AND RESTRAINT.

PIPING SYSTEMS INTENDED TO CARRY FLAMMABLE, COMBUSTIBLE OR

D. DESIGNATED SEISMIC SYSTEM VERIFICATIONS: THE SPECIAL INSPECTOR SHALL EXAMINE DESIGNATED SEISMIC SYSTEMS REQUIRING SEISMIC QUALIFICATIONS IN ACCORDANCE TO CBC SECTION 1708.4 AND VERIFY THAT THE LABEL, ANCHORAGE OR MOUNTING CONFORMS TO THE CERTIFICATE OF COMPLIANCE.

E. SEISMIC ISOLATION SYSTEM: PERIODIC SPECIAL INSPECTION IS REQUIRED DURING THE FABRICATION AND INSTALLATION OF ISOLATOR UNITS AND ENERGY DISSIPATION DEVICES THAT ARE PART OF THE SEISMIC ISOLATION

DEFINITIONS:

TABLE 1 (CBC TABLE 1704.3)

VERIFICATION AND INSPECTION TASK

A. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS

SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.

B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.

B. PRETENSIONED AND SLIP-CRITICAL JOINTS USING TURN OF

DIRECT TENSION INDICATOR METHODS OF INSTALLATION.

THE NUT WITHOUT MATCHMARKING, TWIST-OFF BOLT OR

DIRECT TENSION INDICATOR METHODS OF INSTALLATION.

B. MATERIAL VERIFICATION OF STRUCTURAL STEEL AND COLD-

A. FOR STRUCTURAL STEEL, IDENTIFICATION MARKINGS TO

TO ASTM STANDARDS SPECIFIED IN THE APPROVED

. MANUFACTURER'S CERTIFIED MILL TEST REPORTS

4. MATERIAL VERIFICATION OF WELD FILLER MATERIALS:

A. IDENTIFICATION MARKINGS TO CONFORM TO AWS

A. STRUCTURAL STEEL AND COLD FORMED STEEL DECK:

B. FOR OTHER STEEL, IDENTIFICATION MARKINGS TO CONFORM

SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS.

B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.

1) COMPLETE AND PARTIAL PENETRATION GROOVE WELDS.

1) VERIFICATION OF WELDABILITY OF REINFORCING STEEL

REINFORCING STEEL RESISTING FLEXURAL AND AXIAL

WALLS OF SHEAR AND SHEAR REINFORCEMENT.

5. INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE

C. APPLICATION OF JOINT DETAILS AT EACH CONNECTION

AND BOUNDARY ELEMENTS OF SPECIAL STRUCTURAL

FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES,

PRETENSIONED AND SLIP-CRITICAL JOINTS USING TURN OF

THE NUT WITH MATCHMARKING. TWIST-OFF BOLT OR

. MATERIAL VERIFICATION OF HIGH-STRENGTH

!. INSPECTION OF HIGH-STRENGTH BOLTING:

BOLTS, NUTS AND WASHERS:

A. SNUG-TIGHT JOINTS.

FORMED STEEL DECK:

CONFORM TO AISC 360.

5. INSPECTION OF WELDING:

B. REINFORCING STEEL:

CONSTRUCTION DOCUMENTS.

MULTIPASS FILLET WELDS.

4) PLUG AND SLOT WELDS

3) SINGLE-PASS FILLET WELDS > 5/16"

5) SINGLE-PASS FILLET WELDS ≤ 5/16"

FLOOR AND ROOF DECK WELDS.

OTHER THAN ASTM A 706.

3) SHEAR REINFORCEMNT.

B. MEMEBER LOCATIONS.

4) OTHER REINFORCING STEEL.

WITH APPROVED CONSTRUCTION DOCUMENTS.

A. DETAILS SUCH AS BRACING AND STIFFENING.

REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION

CONTINUOUS | PERIODIC

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A. CONTINUOUS - THE FULL-TIME OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED.

B. PERIODIC - THE PART-TIME OR INTERMITTENT OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK HAS BEEN OR IS BEING PERFORMED AND AT THE COMPLETION OF WORK.

EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A MAIN WIND OR SEISMIC FORCE RESISTING SYSTEM, DESIGNATED SEISMIC SYSTEM OR A WIND OR SEISMIC RESISTING COMPONENT LISTED IN THE STATEMENT OF SPECIAL INSPECTIONS SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL CONTAIN THE FOLLOWING:

1. ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL

INSPECTIONS. . ACKNOWLEDGEMENT 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, THE METHOD AND FREQUENCY OF REPORTING AND THE DISTRIBUTION OF THE REPORTS. 4 IDENTIFICATION AND QUALIFICATION OF THE PERSON(S) EXERCISING

SUCH CONTROL AND THEIR POSITION(S) IN THE ORGANIZATION."

STATEMENT OF SPECIAL INSPECTIONS

AN APPROVED AGENCY, RETAINED BY OWNER AND SATISFACTORY TO ARCHITECT (STRUCTURAL ENGINEER) AND GOVERNING CODE AUTHORITY, SHALL PERFORM REQUIRED TESTS AND SPECIAL INSPECTIONS OF THIS CONTRACT AND APPLICABLE CODE. AN APPROVED AGENCY IS AN ESTABLISHED AND RECOGNIZED AGENCY REGULARLY ENGAGED IN CONDUCTING TESTS AND/OR FURNISHING INSPECTION SERVICES, WHEN SUCH AN AGENCY IS APPROVED.

APPROVED AGENCY SHALL KEEP RECORDS OF ALL INSPECTIONS AND SHALL FURNISH INSPECTION REPORTS TO GOVERNING CODE AUTHORITY AND THE ARCHITECT (STRUCTURAL ENGINEER). REPORTS SHALL INDICATE WHETHER THE WORK INSPECTED WAS DONE IN CONFORMANCE OR NONCONFORMANCE WITH APPROVED CONSTRUCTION DOCUMENTS. NONCONFORMITIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF NOT CORRECTED, THE NONCONFORMITIES SHALL BE BROUGHT TO THE ATTENTION OF THE GOVERNING CODE AUTHORITY AND THE ARCHITECT (STRUCTURAL ENGINEER) PRIOR TO THE COMPLETION OF THAT PHASE OF WORK. A FINAL REPORT DOCUMENTING REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF NONCONFORMITIES SHALL BE SUBMITTED UPON COMPLETION OF WORK.

WHERE FABRICATION OF STRUCTURAL MEMBERS AND ASSEMBLIES IS PERFORMED ON THE PREMISES OF A FABRICATOR'S SHOP, SPECIAL INSPECTIONS OF FABRICATED ITEMS ARE REQUIRED. SPECIAL INSPECTIONS ARE NOT REQUIRED WHERE WORK IS DONE ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED BY THE GOVERNING CODE AUTHORITY TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION.

CONTRACTOR SHALL SUBMIT MATERIAL CERTIFICATION OR LABORATORY TEST REPORTS CERTIFYING MATERIALS ARE OF IDENTIFIABLE TESTED STOCK, COMPLYING WITH PROJECT SPECIFICATIONS, TO OWNER, APPROVED AGENCY, ARCHITECT (STRUCTURAL ENGINEER) AND, UPON REQUEST, TO GOVERNING CODE AUTHORITY. IF LABORATORY TEST REPORTS CANNOT BE MADE AVAILABLE, APPROVED AGENCY WILL PERFORM TESTS AS DIRECTED BY ARCHITECT (STRUCTURAL ENGINEER). CONTRACTOR SHALL PAY FOR COSTS RELATED TO TESTS AND INSPECTIONS OF UNIDENTIFIABLE MATERIALS, MATERIALS FURNISHED WITHOUT LABORATORY TEST REPORTS, MATERIALS FOUND DEFICIENT AFTER INITIAL TESTS AND INSPECTIONS, AND/OR MATERIALS REPLACING DEFICIENT MATERIALS.

APPROVED AGENCY SHALL SUBMIT MATERIAL TEST REPORTS INDICATING WHETHER TESTED MATERIALS ARE IN COMPLIANCE OR NONCOMPLIANCE WITH CONTRACT DOCUMENTS TO OWNER, CONTRACTOR, ARCHITECT (STRUCTURAL ENGINEER) AND, UPON REQUEST, TO GOVERNING CODE AUTHORITY.

APPROVED AGENCY SHALL PERFORM SPECIAL INSPECTIONS IN ACCORDANCE WITH CBC SECTION 1704 AND WITH THIS SHEET FOR THE FOLLOWING WORK. SEE PROJECT SPECIFICATIONS FOR ADDITIONAL TEST AND INSPECTION REQUIREMENTS.

A. STEEL CONSTRUCTION: SEE TABLE 1. B. CONCRETE/SHOTCRETE CONSTRUCTION: SEE TABLE 2. C. SOILS: SEE TABLE 3. D. STRUCTURAL MASONRY CONSTRUCTION: SEE TABLE 5

APPROVED AGENCY SHALL PERFORM SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE IN ACCORDANCE WITH CBC SECTION 1707 FOR THE FOLLOWING WORK:

A. STRUCTURAL STEEL: SEE TABLE 8 AND THE FOLLOWING NONDESTRUCTIVE TESTING (NDT) OF WELDS:

1) PROCEDURES a) ULTRASONIC TESTING (UT) SHALL BE PERFORMED ACCORDING

TO THE PROCEDURES PRESCRIBED IN ANSI/AISC 341 APPENDIX W, SECTION W4.1. b) MAGNETIC PARTICLE TESTING (MT) SHALL BE PERFORMED ACCORDING TO THE PROCEDURES PRESCRIBED IN ANSI/AISC 341

APPENDIX W, SECTION W4.2. 2) REQUIRED NDT a) k-AREA NDT: WHEN WELDING OF DOUBLER PLATES, CONTINUITY

PLATES, OR STIFFENERS HAS BEEN PERFORMED IN THE k-AREA, THE WEB SHALL BE TESTED FOR CRACKS USING MT. THE MT INSPECTION AREA SHALL INCLUDE THE k-AREA BASE METAL WITHIN 3 INCHES OF THE WELD.

b) CJP GROOVE WELD NDT: UT SHALL BE PERFORMED ON 100 PERCENT OF CJP GROOVE WELDS IN MATERIALS 5/16 INCH OR GREATER. UT IN MATERIAL LESS THAN 5/16 INCH THICK IS NOT REQUIRED. MT SHALL BE PERFORMED ON 25 PERCENT OF ALL BEAM-TO-COLUMN CJP GROOVE WELDS.

c) BASE METAL NDT FOR LAMELLAR TEARING AND LAMINATIONS: AFTER JOINT COMPLETION, BASE METAL THICKER THAN 1-1/2 INCHES LOADED IN TENSION IN THE THROUGH THICKNESS DIRECTION IN TEE AND CORNER JOINTS, WHERE THE CONNECTED MATERIAL IS GREATER THAN 3/4 INCH AND CONTAINS CJP GROOVE WELDS, SHALL BE UT FOR DISCONTINUITIES BEHIND AND ADJACENT TO THE FUSION LINE OF SUCH WELDS. ANY BASE METAL DISCONTINUITIES FOUND WITHIN T/4 OF THE STEEL SURFACE SHALL BE ACCEPTED OR REJECTED ON THE BASIS OF CRITERIA OF AWS D1.1 TABLE 6.2, WHERE T IS THE THICKNESS OF THE PART SUBJECTED TO THE

THROUGH-THICKNESS STRAIN. d) BEAM COPE AND ACCESS HOLE NDT: AT WELDED SPLICES AND CONNECTIONS, THERMALLY CUT SURFACES OF BEAM COPES AND ACCESS HOLES SHALL BE TESTED USING MT OR DT, WHEN THE FLANGE THICKNESS EXCEEDS 1-1/2 INCHES FOR ROLLED SHAPES, OR WHEN THE WEB THICKNESS EXCEEDS 1-1/2 INCHES FOR BUILT-UP SHAPES.

e) REDUCED BEAM SECTION (RBS) REPAIR NDT: MT SHALL BE PERFORMED ON ANY WELD AND ADJACENT AREA OF THE RBS PLASTIC HINGE REGION THAT HAS BEEN REPAIRED BY WELDING. OR ON THE BASE METAL OF THE RBS PLASTIC HINGE REGION IF A SHARP NOTCH HAS BEEN REMOVED BY GRINDING.

f) WELD TAB REMOVAL SITES: MT SHALL BE PERFORMED ON THE END OF WELDS FROM WHICH THE WELD TABS HAVE BEEN REMOVED, EXCEPT FOR CONTINUITY PLATE WELD TABS. g) REDUCTION OF PERCENTAGE OF UT: THE AMOUNT OF UT IS PERMITTED TO BE REDUCED IF APPROVED BY THE ENGINEER OF RECORD AND THE GOVERNING CODE AUTHORITY. THE NDT RATE

FOR AN INDIVIDUAL WELDER OR WELDING OPERATOR MAY BE REDUCED TO 25 PERCENT, PROVIDED THE REJECT RATE IS DEMONSTRATED TO BE 5 PERCENT OR LESS OF THE WELDS TESTED FOR THE WELDER OR WELDING OPERATOR. A SAMPLING OF AT LEAST 40 COMPLETED WELDS FOR A JOB SHALL BE MADE FOR SUCH REDUCTION EVALUATION. REJECT RATE IS THE NUMBER OF WELDS CONTAINING REJECTABLE DEFECTS DIVIDED BY THE NUMBER OF WELDS COMPLETED. FOR EVALUATING THE REJECT RATE OF CONTINUOUS WELDS OVER 3 FEET IN LENGTH WHERE THE EFFECTIVE THROAT THICKNESS IS 1 INCH OR LESS, EACH 12-INCH INCREMENT OR FRACTION THEREOF SHALL BE CONSIDERED AS ONE WELD. FOR EVALUATING THE REJECT RATE ON CONTINUOUS WELDS OVER 3 FEET IN LENGTH WHERE THE EFFECTIVE THROAT THICKNESS IS GREATER THAN 1 INCH, EACH 6 INCHES OF LENGTH OR FRACTION THEREOF SHALL BE CONSIDERED ONE WELD.

h) REDUCTION OF PERCENTAGE OF MT: THE AMOUNT OF MT ON CJP GROOVE WELDS IS PERMITTED TO BE REDUCED IF APPROVED BY THE ENGINEER OF RECORD AND THE GOVERNING CODE AUTHORITY. THE MT RATE FOR AN INDIVIDUAL WELDER OR WELDING OPERATOR MAY BE REDUCED TO 10 PERCENT, PROVIDED THE REJECT RATE IS DEMONSTRATED TO BE 5 PERCENT OR LESS OF THE WELDS TESTED FOR THE WELDER OR WELDING OPERATOR. A SAMPLING OF AT LEAST 20 COMPLETED WELDS FOR A JOB SHALL BE MADE FOR SUCH REDUCTION EVALUATION. REJECT RATE IS THE NUMBER OF WELDS CONTAINING REJECTABLE DEFECTS DIVIDED BY THE NUMBER OF WELDS COMPLETED. THIS REDUCTION IS NOT PERMITTED ON WELDS IN THE k-AREA, AT REPAIR SITES, WELD TAB AND BACKING REMOVAL SITES AND ACCESS HOLES.

3) DOCUMENTATION: ALL NDT PERFORMED SHALL BE DOCUMENTED. FOR SHOP FABRICATION. THE NDT REPORT SHALL IDENTIFY THE TESTED WELD BY PIECE MARK AND LOCATION IN THE PIECE. FOR FIELD WORK, THE NDT REPORT SHALL IDENTIFY THE TESTED WELD BY LOCATION IN THE STRUCTURE, PIECE MARK, AND THE LOCATION IN THE PIECE.

<u>CONSULTANTS</u>





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