NON-STRUCTURAL SPECIAL INSPECTION ITEMS.

OBSERVATION VISITS MAY BE SCHEDULED AT THE APPROPRIATE TIMES:

A.FOUNDATION SYSTEM PRIOR TO PLACING CONCRETE. B. STEEL STRUCTURE ONCE ERECTION IS COMPLETE AND STRUCTURE HAS BEEN PLUMBED. C.ROOF DECK PRIOR TO COVERING WITH MEMBRANE.

D. EXTERIOR STUD WALL FRAMING PRIOR TO COVERING WITH FINISHES.

SCHEDULE OF STRUCTURAL SPECIAL INSPECTIONS PER IBC 2015

1. SPECIAL INSPECTIONS / TESTING -"SPECIAL STRUCTURAL INSPECTION" SHALL NOT RELIEVE THE OWNER OR THEIR AGENT FROM REQUESTING THE JURISDICTION BUILDING DEPARTMENT INSPECTIONS REQUIRED BY SECTION 110 OF THE IBC.

2. REPORTING FOR SPECIAL INSPECTION -SPECIAL INSPECTION AND TESTING REPORTS SHALL BE COMPLETED AND DISTRIBUTED AT THE COMPLETION OF EACH TASK. IF A TASK IS TO TAKE LONGER THAN (3) DAYS, PROVIDE REPORTS FOR EACH DAY. PROVIDE COPIES OF REPORTS TO: CONTRACTOR, OWNER, ARCHITECT AND STRUCTURAL ENGINEER OF RECORD. SPECIAL INSPECTOR TO KEEP A NON-COMPLIANCE LIST DOCUMENTING ITEMS INSPECTED NOT MEETING APPROVED CONSTRUCTION DOCUMENTS AND WHEN / HOW RESOLVED. 3. SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING CONSTRUCTION DOCUMENTS FOR ADDITIONAL

IN ACCORDANCE WITH IBC CHAPTER 17, THE FOLLOWING TYPES OF WORK REQUIRE SPECIAL INSPECTIONS AND TESTING:

SPECIAL INSPECTIONS AND TESTS OF SOILS

		SPECIAL INSPECTIONS AND TESTS	or coile		
SPECIAL INSPECTION REQUIRED Y/N		VERIFICATION AND INSPECTION TASK	FREQUENCY C	REFERENCE FOR CRITERIA	
		VERIFICATION AND INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED	IBC SECTION
Y	1.	VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.		X	1705.6
Y	2.	VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.		X	1705.6
Y	3.	PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.		X	1705.6
Y	4.	VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	Х		1705.6
Y	5.	PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT THE SITE HAS BEEN PREPARED PROPERLY.		Х	1705.6

SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION
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SPECIAL INSPECTION REQUIRED Y/N			TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	REFERENCED STANDARD	IBC REFERENCE
Υ	1.	PR	SPECT REINFORCEMENT, INCLUDING ESTRESSING TENDONS, AND VERIFY ACEMENT.		Х	ACI 318 CH. 20, 25.2, 25.3, 26.5.1-26.5.3	1908.4
	2.	RE	INFORCING BAR WELDING:				
N		a.	VERIFY WELDBILITY OF REINFORCING BARS OTHER THAN ASTM A 706.		Х	AWS D1.4	
N		b.	INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"		Х	ACI 318: 26.5.4	
N		C.	INSPECT ALL OTHER WELDS.	Х			
Y	3.	INS	SPECT ANCHORS CAST IN CONCRETE.		Х	ACI 318: 17.8.2	
	4.	RE	SPECTION OF ANCHORS AND INFORCING BARS POST-INSTALLED IN RDENED CONCRETE MEMBERS.				
Y		a.	ADHESIVE ANCHORS AND REINFORCING BARS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS.	х		ACI 318: 17.8.2.4	
Υ		b.	MECHANICAL ANCHORS, REINFORCING BARS AND ADHESIVE ANCHORS NOT DEFINED IN 4.a.		Х	ACI 318: 17.8.2	
Υ	5.	VE	RIFY USE OF REQUIRED DESIGN MIX.		Х	ACI 318: CH.19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3
Y	6.	FA TE CC	IOR TO CONCRETE PLACEMENT, BRICATE SPECIMENS FOR STRENGTH STS, PERFORM SLUMP AND AIR INTENT TESTS, AND DETERMINE THE MPERATURE OF THE CONCRETE.	х		ASTM C 172 ASTM C 31 ACI 318: 26.4.5, 26.12	1908.10
Υ	7.	PL	SPECT CONCRETE AND SHOTCRETE ACEMENT FOR PROPER APPLICATION CHNIQUES.	х		ACI 318: 26.4.5	1908.6, 1908.7, 1908.8
Υ	8.	CU	RIFY MAINTENANCE OF SPECIFIED IRING TEMPERATURE AND CHNIQUES.		Х	ACI 318: 26.4.7-26.4.9	1908.9
	9.	INS	SPECT PRESTRESSED CONCRETE FOR:				
N		a. APPLICATION OF PRESTRESSING FORCES.		х		ACI 318: 26.9.2.1	
N	b. GROUTING OF BONDED PRESTRESSING TENDONS.			х		ACI 318: 26.9.2.3	
N	10.		SPECT ERECTION OF PRECAST ONCRETE MEMBERS.		Х	ACI 318: CH. 26.9	
N	11. VERIFY 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.				X	ACI 318: 26.10.2	
Υ	12.	LO	SPECT FORMWORK FOR SHAPE, CATION AND DIMENSIONS OF THE NOCRETE MEMBER BEING FORMED.		Х	ACI 318: 26.10.1(b)	

LEVEL A QUALITY ASSURANCE OF MASONRY	(TMS 402-13/ACI 530-13/ASCE 5-13 TABLE 3.1.1)
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SPECIAL INSPECTION REQUIRED Y/N	MINIMUM VERIFICATION
Υ	PRIOR TO CONSTRUCTION, VERIFY CERTIFICATES OF COMPLIANCE USED IN MASONRY CONSTRUCTION.

				3	
				3	
	SPECI	AL IN	SPECTION AND VERIFICATION OF S	STEEL CONST	RUCTION
SPECIAL				TYPE OF IN	ISPECTION
INSPECTION REQUIRED Y/N		VERIF	FICATION AND INSPECTION TASK	QUALITY CONTROL TASK	QUALITY ASSURANO TASK
	1. INSPE	CTION	TASKS PRIOR TO WELDING:		
Y	a.	WELD AVAIL	ING PROCEDURE SPECIFICATIONS (WPSs) ABLE.	Р	Р
Y	b.		FACTURER CERTIFICATIONS FOR WELDING UMABLES AVAILABLE.	Р	Р
Y	C.	MATE	RIAL IDENTIFICATION (TYPE/GRADE).	0	0
Υ	d.	WELD	ER IDENTIFICATION SYSTEM.	0	0
	e.		P OF GROOVE WELDS (INCLUDING JOINT IETRY).		
		1)	JOINT PREPARATION.		
Y		2)	DIMENSIONS (ALIGNMENT, ROOT FACE, BEVEL)		
Y		3)	O CLEANLINESS (CONDITION OF STEEL SURFACES)		0
		4)	TACKING (TACK WELD QUALITY AND LOCATION)		

Υ		a.	AVAIL	ABLE.	Р	Р	
Y		b.	1	FACTURER CERTIFICATIONS FOR WELDING UMABLES AVAILABLE.	Р	Р	
Y		C.	MATE	RIAL IDENTIFICATION (TYPE/GRADE).	0	0	
Υ		d.	WELD	ER IDENTIFICATION SYSTEM.	0	0	
		e.		P OF GROOVE WELDS (INCLUDING JOINT IETRY).			
			1)	JOINT PREPARATION.			
V			2)	DIMENSIONS (ALIGNMENT, ROOT FACE, BEVEL)			
Y			3)	CLEANLINESS (CONDITION OF STEEL SURFACES)	0	0	AI: TABI
			4)	TACKING (TACK WELD QUALITY AND LOCATION)			
			5)	BACKING TYPE AND FIT (IF APPLICABLE)			
Υ		f.	CONF	IGURATION AND FINISH OF ACCESS HOLES.	0	0	
		g.	FIT-UF	OF FILLET WELDS.			
			1)	DIMENSIONS (ALIGNMENT, GAPS AT ROOT)			
Υ			2)	CLEANLINESS (CONDITION OF STEEL SURFACES)	0	0	
			3)	TACKING (TACK WELD QUALITY AND LOCATION)			
Υ		h.	CHEC	K WELDING EQUIPMENT.	0		
	2.	INSPE	CTION	TASKS DURING WELDING:			
Υ		a.	USE C	F QUALIFIED WELDERS.	0	0	
		b.		ROL AND HANDLING OF WELDING UMABLES.			
Υ			1)	PACKAGING	0	0	
			2)	EXPOSURE CONTROL			
Υ		C.	NO WI	ELDING OVER CRACKED TACK WELDS.	0	0	
		d.	ENVIR	ONMENTAL CONDITIONS.			
Υ			1)	WIND SPEED WITHIN LIMITS	0	0	
			2)	PRECIPITATION AND TEMPERATURE			
		e.	WPS F	FOLLOWED.			
			1)	SETTINGS ON WELDING EQUIPMENT.			AI
			2)	TRAVEL SPEED			TABI

					I .
Y	a. USE	E OF QUALIFIED WELDERS.	0	0	
		NTROL AND HANDLING OF WELDING NSUMABLES.			
Y		1) PACKAGING	0	0	
		2) EXPOSURE CONTROL			
Y	c. NO	WELDING OVER CRACKED TACK WELDS.	0	0	
	d. EN	VIRONMENTAL CONDITIONS.			
Y		1) WIND SPEED WITHIN LIMITS	0	0	
		2) PRECIPITATION AND TEMPERATURE			
	e. WP	S FOLLOWED.			
	'	1) SETTINGS ON WELDING EQUIPMENT.			
		2) TRAVEL SPEED			TA
		3) SELECTED WELDING MATERIALS			
Y		4) SHIELDING GAS TYPE/FLOW RATE	0	0	
		5) PREHEAT APPLIED			
		6) INTERPASS TEMPERATURE MAINTAINED (MIN/MAX)	1		

				2)	TRAVEL SPEED		
				3)	SELECTED WELDING MATERIALS		
	Y			4)	SHIELDING GAS TYPE/FLOW RATE	0	0
				5)	PREHEAT APPLIED		
				6)	INTERPASS TEMPERATURE MAINTAINED (MIN/MAX)		
				7)	PROPER POSITION (F, V, H, OH)		
			f.	WELD	ING TECHNIQUES.		
				1)	INTERPASS AND FINAL CLEANING.		
	Y			2)	EACH PASS WITHIN PROFILE LIMITATIONS.	0	0
				3)	EACH PASS MEETS QUALITY REQUIREMENTS.		
		3.	INSPE	CTION	TASKS AFTER WELDING:		
04.2,	Y		a.	WELD	S CLEANED.	0	0
008.3	Y		b.	SIZE, I	LENGTH, AND LOCATION OF WELDS.	Р	Р
			C.	WELD	S MEET VISUAL ACCEPTANCE CRITERIA.		
0				1)	CRACK PROHIBITION		
				2)	WELD/BASE-METAL FUSION		
				3)	CRATER CROSS SECTION		

			Ť		FOR F	ASTENER MATERIALS.
~	ACI 318:		Y	b.		ENERS MARKED IN ACCORDANCE WITH REQUIREMENTS.
	26.10.1(b)			C.	PROP DETAI	ER FASTENERS SELECTED FOR THE JOINT L.
			V		1)	GRADE
/A OL EOO 40	/ACCE		r		2)	TVPE

			EXCLUDED FROM SHEAR PLANE
ICE USED IN MASONRY CONSTRUCTION.	Y	<i>A</i>	CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDIT HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS.
	Y	li li	PRE-INSTALLATION VERIFICATION TESTIN INSTALLATION PERSONNEL OBSERVED A

SPECTION AND VERIFICATION OF STEEL CONSTRUCTION					

	SPECIAL INSPECTION AND VERIFICATION OF S	TEEL CONS	TRUCTION			SPECI	AL INSPECTION AND VERIFICATION			EEL DECK
SPECIAL		TYPE OF I	NSPECTION	REFERENCE	SPECIAL INSPECTION REQUIRED	V	ERIFICATION AND INSPECTION TASK	QUALITY	QUALITY	REFERENCED STANDARD
NSPECTION EQUIRED Y/N	VERIFICATION AND INSPECTION TASK	QUALITY CONTROL	QUALITY ASSURANCE	D STANDARD	Y/N	1. INSPE	ECTION OR EXECUTION TASKS PRIOR TO DEC	CONTROL TASK CK PLACEMENT:	ASSURANCE TASK	
	4 NODEOTION TAGICO PRIOR TO WELDING	TASK	TASK			a.	VERIFY COMPLIANCE OF MATERIALS (DECK AND ALL DECK ACCESSORIES) WITH			
Y	INSPECTION TASKS PRIOR TO WELDING: WELDING PROCEDURE SPECIFICATIONS (WPSs) AVAILABLE.	P	Р		Y		CONSTRUCTION DOCUMENTS, INCLUDING PROFILES, MATERIAL PROPERTIES, AND BASE MATERIAL THICKNESS.	Р	Р	SDI-ANSI-QA-QC-2011 TABLE 1.1
Υ	b. MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE.	Р	Р		Y	b.	DOCUMENT ACCEPTANCE OR REJECTION OF DECK AND DECK ACCESSORIES.	Р	Р	
Y Y	c. MATERIAL IDENTIFICATION (TYPE/GRADE). d. WELDER IDENTIFICATION SYSTEM.	0	0	-	:		ECTION OR EXECUTION TASKS AFTER DECK F VERIFY COMPLIANCE OF DECK AND ALL	PLACEMENT:		
Y	e. FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY).	0	0		Y		DECK ACCESSORIES INSTALLATION WITH CONSTRUCTION DOCUMENTS. VERIFY DECK MATERIALS ARE	Р	Р	
	1) JOINT PREPARATION.				Y	D.	REPRESENTED BY MILL CERTIFICATIONS THAT COMPLY WITH THE CONSTRUCTION		Р	SDI-ANSI-QA-QC-2011 TABLE 1.2
Υ	2) DIMENSIONS (ALIGNMENT, ROOT FACE, BEVEL) 3) CLEANLINESS (CONDITION OF STEEL	0	0	AISC 360	Y	C.	DOCUMENTS. DOCUMENT ACCEPTANCE OR REJECTION OF INSTALLATION OF DECK AND DECK	Р	P	
	SURFACES) 4) TACKING (TACK WELD QUALITY AND			TABLE N5.4-1	. ;	3. INSPE	ACCESSORIES. ECTION OR EXECUTION TASKS PRIOR TO WEL	DING:		
	LOCATION) 5) BACKING TYPE AND FIT (IF APPLICABLE)				Y	a.	WELDING PROCEDURE SPECIFICATIONS (WPS) AVAILABLE.	0	О	
Υ	f. CONFIGURATION AND FINISH OF ACCESS HOLES. g. FIT-UP OF FILLET WELDS.	0	0		Y		MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE.	0	0	SDI-ANSI-QA-QC-2011 TABLE 1.3
	DIMENSIONS (ALIGNMENT, GAPS AT ROOT)				Y		MATERIAL IDENTIFICATION (TYPE/GRADE) CHECK WELDING EQUIPMENT.	0	0	
Υ	CLEANLINESS (CONDITION OF STEEL SURFACES) 3) TACKING (TACK WELD QUALITY AND	0	0		Y		ECTION EXECUTION TASKS DURING WELDING USE OF QUALIFIED WELDERS	: O	0	
Y	h. CHECK WELDING EQUIPMENT.	0		-	Y	b.	CONTROL AND HANDLING OF WELDING CONSUMABLES.	0	0	SDI-ANSI-QA-QC-2011 TABLE 1.4
	INSPECTION TASKS DURING WELDING: USE OF QUALIFIED WELDERS.				Y	C.	ENVIRONMENT CONDITIONS (WIND SPEED, MOISTURE, TEMPERATURE)	0	0	MULL 1.4
Υ	b. CONTROL AND HANDLING OF WELDING CONSUMABLES.	0	0	-	Y		WPS FOLLOWED ECTION OR EXECUTION TASKS AFTER WELDIN	O NG:	0	
Υ	1) PACKAGING	Ο	0		Y	a.	VERIFY SIZE AND LOCATION OF WELDS, INCLUDING SUPPORT, SIDELAP, AND	Р	Р	
Υ	z. NO WELDING OVER CRACKED TACK WELDS.	0	0		Y	а.	PERIMETER WELDS. WELDS MEET VISUAL ACCEPTANCE CRITERIA.	Р	Р	SDI-ANSI-QA-QC-2011 TABLE 1.5
Υ	d. ENVIRONMENTAL CONDITIONS. 1) WIND SPEED WITHIN LIMITS	0	0		Y		VERIFY REPAIR ACTIVITIES. DOCUMENT ACCEPTANCE OR REJECTION	Р	Р	
	PRECIPITATION AND TEMPERATURE WPS FOLLOWED.				Y		OF WELDS. ECTION OR EXECUTION TASKS PRIOR TO MED	P CHANICAL FAST	P ENING:	
	1) SETTINGS ON WELDING EQUIPMENT.			AISC 360 TABLE N5.4-2	Y		MANUFACTURER INSTALLATION INSTRUCTIONS AVAILABLE FOR	0	0	
	TRAVEL SPEED SELECTED WELDING MATERIALS				Y	b.	MECHANICAL FASTENERS. PROPER TOOLS AVAILABLE FOR FASTENER INSTALLATION.	0	0	SDI-ANSI-QA-QC-2011 TABLE 1.6
Υ	SHIELDING GAS TYPE/FLOW RATE PREHEAT APPLIED	0	0		Y	C.	PROPER STORAGE FOR MECHANICAL FASTENERS.	0	O.	
	6) INTERPASS TEMPERATURE MAINTAINED (MIN/MAX)						ECTION OR EXECUTION TASKS DURING MECH FASTENERS ARE POSITIONED AS	ANICAL FASTE		
	7) PROPER POSITION (F, V, H, OH) f. WELDING TECHNIQUES.				Y		REQUIRED. FASTENERS ARE INSTALLED IN	0	0	SDI-ANSI-QA-QC-2011 TABLE 1.7
Y	INTERPASS AND FINAL CLEANING. EACH PASS WITHIN PROFILE LIMITATIONS.	О	0		Y		ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.	0	0	
	3) EACH PASS MEETS QUALITY REQUIREMENTS.				Y		ECTION OR EXECUTION TASKS AFTER MECHA CHECK SPACING, TYPE, AND INSTALLATION OF SUPPORT FASTENERS.	P	P	
Y	INSPECTION TASKS AFTER WELDING: a. WELDS CLEANED.	0	0		Y	b.	CHECK SPACING, TYPE AND INSTALLATION OF SIDELAP FASTENERS.	Р	Р	SDI-ANSI-QA-QC-2011
Y	b. SIZE, LENGTH, AND LOCATION OF WELDS.	P	P	-	Y		CHECK SPACING, TYPE AND INSTALLATION OF PERIMETER FASTENERS.	Р	Р	TABLE 1.8
	c. WELDS MEET VISUAL ACCEPTANCE CRITERIA. 1) CRACK PROHIBITION				Y		VERIFY REPAIR ACTIVITIES. DOCUMENT ACCEPTANCE OR REJECTION	P P	P	
Y	WELD/BASE-METAL FUSION CRATER CROSS SECTION	P	P		I		OF MECHANICAL FASTENERS. BSERVED ON A INTERMITTENT BASIS. OPERA ICY OF OBSERVATIONS SHALL BE ADEQUATE			
T	4) WELD PROFILES 5) WELD SIZE	Р	F	AISC 360	ACCORDANCE	WITH THE	EAPPLICABLE DOCUMENTS. ERFORMED PRIOR TO FINAL ACCEPTANCE FO			
	6) UNDERCUT 7) POROSITY			TABLE N5.4-3	WRITTEN DOCU	JMENTAT	KS, "DOCUMENT" SHALL MEAN THE INSPECTO ION INDICATING THAT WORK HAS OR HAS NO			
Υ	d. ARC STRIKES.	Р	Р	-	CONSTRUCTIO	N DOCUM	IENTS.			
Y Y	e. k-AREA. f. BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED).	P P	P P	_						
Y	g. REPAIR ACTIVITIES.	Р	Р	_						
Y	h. DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER. 4. INSPECTION TASKS PRIOR TO BOLTING:	Р	Р							
Υ	a. MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS.	0	Р							
Υ	b. FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS.	0	0							
	c. PROPER FASTENERS SELECTED FOR THE JOINT DETAIL.									
Υ	1) GRADE 2) TYPE	0	0							
	3) BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE			AISC 360 TABLE N5.6-1						
Υ	d. CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET	0	0							
	e. PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND									
Υ	DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED.	Р	0							
Υ	f. PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS, AND OTHER FASTENER COMPONENTS.	0	0							
	INSPECTION TASKS DURING BOLTING: a. FASTENER ASSEMBLIES, OF SUITABLE			-						
Υ	CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED.	0	0							
Υ	b. JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION.	0	0	AISC 360 TABLE N5.6-2						
Υ	c. FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING. d. FASTENERS ARE PRETENSIONED IN	0	0	_						
Υ	ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE	0	0							
	MOST RIGID POINT TOWARD THE FREE EDGES. 6. INSPECTION TASKS AFTER BOLTING:			AISC 360						
Y	a. DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS. 7. INSPECTION OF STEEL ELEMENTS OF COMPOSITE CONSTRU	P	P P ACEMENT	TABLE N5.6-3						
N	a. PLACEMENT AND INSTALLATION OF STEEL DECK.	P P	P PLACEMENT.	A100.555						
N	b. PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS.	Р	Р	AISC 360 TABLE N6.1						
N	c. DOCUMENT ACCEPTANCE OR REJECTION OF STEEL ELEMENTS. 8. INSPECTION OF ANCHOR ROD PLACEMENT AND PLACEMEN	P T OF EMBEDDED	P DITEMS.							
Υ	a. DIAMETER, GRADE, TYPE, AND LENGTH OF ANCHOR ROD OR EMBEDDED ITEM.	P P	P P	AISC 360 SECTION						
Y	b. EXTENT OR DEPTH OF EMBEDMENT INTO CONCRETE.	Р	Р	N5.7						
Υ	9. INSPECTION OF THE FABRICATED STEEL OR ERECTED STEEL FRAME TO VERIFY COMPLIANCE WITH THE DETAILS SHOWN ON THE CONSTRUCTION DOCUMENTS.	Р	Р	AISC 360 SECTION N5.7						
ITEMS NEED 1	TO BE OBSERVED ON A RANDOM BASIS. OPERATIONS NEED NOT I	BE DELAYED PE	L NDING THESE INS							

P: ITEMS NEED TO BE PERFORMED FOR EACH WELD JOINT OR MEMBER.

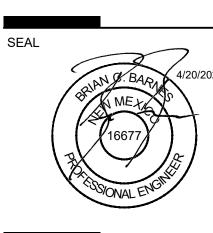
					_		
	SPECIAL INSPECTION AND VERIFICATIO	N OF COLD-	FORMED ST	EEL DECK			SPE
L		TYPE OF IN	NSPECTION			SPECIAL INSPECTION	
ON ED	VERIFICATION AND INSPECTION TASK	QUALITY	QUALITY	REFERENCED STANDARD		REQUIRED Y/N	

SPECIAL				TYPE OF IN	ISPECTION	
INSPECTION REQUIRED Y/N		V	ERIFICATION AND INSPECTION TASK	QUALITY CONTROL TASK	QUALITY ASSURANCE TASK	REFERENCED STANDARD
	1.	INSP	ECTION OR EXECUTION TASKS PRIOR TO DEC	K PLACEMENT:		
Y		а.	VERIFY COMPLIANCE OF MATERIALS (DECK AND ALL DECK ACCESSORIES) WITH CONSTRUCTION DOCUMENTS, INCLUDING PROFILES, MATERIAL PROPERTIES, AND BASE MATERIAL THICKNESS.	Р	Р	SDI-ANSI-QA-QC-2011 TABLE 1.1
Υ		b.	DOCUMENT ACCEPTANCE OR REJECTION OF DECK AND DECK ACCESSORIES.	Р	Р	
	2.	INSP	□ ECTION OR EXECUTION TASKS AFTER DECK F	LACEMENT:		
Y		a.	VERIFY COMPLIANCE OF DECK AND ALL DECK ACCESSORIES INSTALLATION WITH CONSTRUCTION DOCUMENTS.	Р	Р	
Y		b.	VERIFY DECK MATERIALS ARE REPRESENTED BY MILL CERTIFICATIONS THAT COMPLY WITH THE CONSTRUCTION DOCUMENTS.		Р	SDI-ANSI-QA-QC-2011 TABLE 1.2
Y		C.	DOCUMENT ACCEPTANCE OR REJECTION OF INSTALLATION OF DECK AND DECK ACCESSORIES.	Р	Р	
	3.	INSP	ECTION OR EXECUTION TASKS PRIOR TO WEL	_DING:		
Y		a.	WELDING PROCEDURE SPECIFICATIONS (WPS) AVAILABLE.	0	0	
Υ		b.	MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE.	0	0	SDI-ANSI-QA-QC-2011 TABLE 1.3
Y		C.	MATERIAL IDENTIFICATION (TYPE/GRADE)	0	0	
Υ		d.	CHECK WELDING EQUIPMENT.	0	0	
	4.	INSP	⊥ ECTION EXECUTION TASKS DURING WELDING	: :	I.	
Υ		a.	USE OF QUALIFIED WELDERS	0	0	
Υ		b.	CONTROL AND HANDLING OF WELDING CONSUMABLES.	0	0	SDI-ANSI-QA-QC-2011
Υ		C.		0	0	TABLE 1.4
Υ	d.		'	0	0	
	5.	INSP	LECTION OR EXECUTION TASKS AFTER WELDIN			
Y		a.	T	Р	Р	
Y		a.	WELDS MEET VISUAL ACCEPTANCE CRITERIA.	Р	Р	SDI-ANSI-QA-QC-2011 TABLE 1.5
Υ		a.	VERIFY REPAIR ACTIVITIES.	Р	Р	
Υ		a.	DOCUMENT ACCEPTANCE OR REJECTION OF WELDS.	Р	Р	
	6.	INSP	ECTION OR EXECUTION TASKS PRIOR TO MEC	HANICAL FAST	ENING:	
Y		a.	MANUFACTURER INSTALLATION INSTRUCTIONS AVAILABLE FOR MECHANICAL FASTENERS.	0	0	SDI-ANSI-QA-QC-2011
Y		b.	PROPER TOOLS AVAILABLE FOR FASTENER INSTALLATION.	0	0	TABLE 1.6
Y		C.	PROPER STORAGE FOR MECHANICAL FASTENERS.	0	О.	
	7.	INSP	LECTION OR EXECUTION TASKS DURING MECH	IANICAL FASTE	NING:	
Y		a.		0	0	
I		REQUIRED.		0	U	SDI-ANSI-QA-QC-2011 TABLE 1.7
Y		b.	FASTENERS ARE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.	0	0	
	8.	INSP	ECTION OR EXECUTION TASKS AFTER MECHA	∟ NICAL FASTENI	NG:	
Y		a.	CHECK SPACING, TYPE, AND INSTALLATION OF SUPPORT FASTENERS.	Р	Р	
Y		b.		Р	Р	SDI-ANSI-QA-QC-2011
Y		C.		Р	Р	TABLE 1.8
Υ		d.		P	P	
Y		е.		P	P	
O: ITEMS NEE	D T/) PE ()	BRSEDVED ON A INTERMITTENT BASIS OPERA	TIONS NEED NO	T DE DELAVED	DENDING THESE

	SF	PEC	CIAL II	NSPECTIONS OF OPEN-W	EB STEEL JOI	STS AND JOIS	ST GIRDERS
SPECIAL INSPECTION REQUIRED Y/N				TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	REFERENCED STANDARD
	1.	INS	STALLA	TION OF OPEN-WEB STEEL JOISTS	S AND JOIST GIRD	ERS:	
Υ		a.	END C BOLTE	ONNECTIONS-WELDING OR D.		X	SJI SPECIFICATIONS LISTED I SECTION 2207.1
		b.	BRIDG	ING-HORIZONTAL OR DIAGONAL.			
Y			1.	STANDARD BRIDGING.		Х	SJI SPECIFICATIONS LISTED I SECTION 2207.1
Υ			2.	BRIDGING THAT DIFFERS FROM THE SJI SPECIFICATIONS LISTED IN SECTION 2207.1.		X	

SPECIAL					TYPE OF I	REFERENCE STANDARD			
INSPECTION REQUIRED Y/N			VERIF	ICATION AND INSPECTION TASK	QUALITY CONTROL TASK	QUALITY ASSURANCE TASK	AISI S240 TABLE		
	1.	MATE	RIAL VE	RIFICATION TASKS PRIOR TO ASSEMBLY OR I	NSTALLATION				
	a.			Y COMPLIANCE OF COLD-FORMED STEEL CTURAL MEMBERS					
				STRUCTURAL STUD SIZE AND GAGE.					
Υ				PROPER SEATING OF STUDS IN TRACK.	Р	Р	D6.5-1		
			3.	STUD HEADER SIZE, GAGE, AND CONSTRUCTION PER STRUCTURAL DRAWINGS					
Υ		b.	VERIF	Y COMPLIANCE OF CONNECTORS	Р	Р			
	2.	MATE	RIAL VE	RIFICATION TASKS AFTER ASSEMBLY OR INS	TALLATION				
		a.	1	Y COMPLIANCE OF COLD-FORMED STEEL CTURAL MEMBERS					
.,			1.	STRUCTURAL STUD SIZE AND GAGE.	_	_			
Υ				PROPER SEATING OF STUDS IN TRACK.	Р	Р	D6.5-2		
			3.	STUD HEADER SIZE, GAGE, AND CONSTRUCTION PER STRUCTURAL DRAWINGS			50.5-2		
Υ		b.		Y COMPLIANCE OF CONNECTORS	Р	Р			
Y			c. DOCUMENT ACCEPTANCE OR REJECTION OF COLD-FORMED STEEL STRUCTURAL MEMBERS AND CONNECTORS			Р			
				OR EXECUTION TASKS PRIOR TO WELDING			_		
Υ		a.	AVAIL	ING PROCEDURE SPECIFICATIONS ABLE	0	0			
Υ		b.		FACTURER CERTIFICATIONS FOR WELDING UMABLES AVAILABLE	0	0	D6.6-1		
Υ	C.			RIAL IDENTIFICATION (TYPE/GRADE)	0	0	-		
Υ		d.	CHEC	K WELDING EQUIPMENT	0				
	4.	INSPE	CTION (OR EXECUTION TASKS DURING WELDING					
Υ		a.	USE O	F QUALIFIED WELDERS	0	0			
Υ			1	ROL AND HANDLING OF WELDING JMABLES	0	0			
Y			ENVIR	ONMENTAL CONDITIONS (WIND SPEED, TURE, TEMPERATURE)	0	0	D6.6-2		
Υ		d.	WELD	ING PROCEDURE SPECIFICATIONS	0	0			
	5.	INSPE		OF EXECUTION TASKS AFTER WELDING					
Υ		a.	VERIF	Y COMPLIANCE OF WELDS	Р	Р			
Υ	b. V		WELD	S MEET VISUAL ACCEPTANCE CRITERIA	Р	Р	6.6-3		
Υ		C.	-		Р	Р			
Υ		d.	1	MENT ACCEPTANCE OR REJECTION OF ED CONNECTIONS		Р			
	6.	INSPE		OR EXECUTION TASKS PRIOR TO MECHANICA	L FASTENING	1			
Υ		a.	INSTAI	ANICAL FASTENER MANUFACTURER LLATION INSTRUCTIONS AVAILABLE FOR ANICAL FASTENERS	0	0	D6.7-1		
Υ		b.	1	ER TOOLS AVAILABLE FOR MECHANICAL	0	0] - 5		
Y	-	C.		ENER INSTALLATION ER STORAGE FOR MECHANICAL FASTENERS	0	0	-		
	7.			OR EXECUTION TASKS DURING MECHANICAL					
Υ			MECH. REQUI	ANICAL FASTENERS ARE POSITIONED AS RED	0	0	D6.7-2		
Υ		b.	ACCO	ANICAL FASTENERS ARE INSTALLED IN RDANCE WITH MANUFACTURER'S UCTIONS	0	0			
	8.	INSPE	CTION (OR EXECUTION TASKS AFTER MECHANICAL FA	ASTENING				
Υ		a.	VERIF	Y COMPLIANCE OF MECHANICAL	Р	Р			
Υ		b.		Y REPAIR ACTIVITIES	Р	P	D6.7-3		
Υ		C.		MENT ACCEPTANCE OR REJECTION OF		P			
	9.	INSPE		ANICALLY FASTENED CONNECTIONS OR EXECUTION TASKS AFTER INSTALLATION (OF COLD-FORME				
		LIGHT	-FRAME	CONSTRUCTION			_		
Υ				Y COMPLIANCE OF COLD-FORMED STEEL -FRAME CONSTRUCTION	Р	Р	D6.8-1		
Υ		b.	COLD-	MENT ACCEPTANCE OR REJECTION OF FORMED STEEL LIGHT-FRAME TRUCTION		Р			

SPECIAL INSPECTION		VERIFICATION AND TESTING TASK	FREQUENCY	REFERENCE FOR CRITERIA		
REQUIRED Y/N		VERIFICATION AND TESTING TASK	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED	IBC SECTION	
	1.	STRUCTURAL STEEL (SDC B, C, D, E, OR F)		'		
N		a. SEISMIC-FORCE-RESISTING SYSTEM: NONDESTRUCTIVE TESTING OF STRUCTURAL STEEL IN THE SEISMIC-FORCE-RESISTING SYSTEMS OF BUILDING AND STRUCTURES SHALL BE PERFORMED IN ACCORDANCE WITH THE QUALITY ASSURANCE REQUIREMENTS OF AISC 341.	PER AISC 341	PER AISC 341	1705.13.1.1	
N		b. STRUCTURAL STEEL ELEMENTS: NONDESTRUCTIVE TESTING OF STRUCTURAL STEEL ELEMENTS IN THE SEISMIC-FORCE-RESISTING SYSTEMS OF BUILDINGS AND STRUCTURES OTHER THAN THOSE COVERED ABOVE, INCLUDING STRUTS, COLLECTORS, CHORDS, AND FOUNDATION ELEMENTS SHALL BE PERFORMED IN ACCORDANCE WITH THE QUALITY ASSURANCE REQUIREMENTS OF AISC 341	PER AISC 341	PER AISC 341	1705.13.1.2	
Υ	2.	SEISMIC CERTIFICATION OF NON-STRUCTURAL COMPONENTS (SDC B, C, D, E, OR F)	PER CONS	1705.13.2		
Υ	3.	DESIGNATED SEISMIC SYSTEMS (SDC C, D, E, OR F)		PER CONSTRUCTION DOCUMENTS		



PROJECT

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REVISIONS

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SPECIAL INSPECTION **TABLES**

SHEET NO