LOCATION	Portland, Maine		IAL INSPECTIONS	ITEM			BC 2015 SECTION 1705.3 Y SCOPE
OWNER DESIGN PROFESSIONAL IN CHARG	Maine Medical Ce GE John H. Thomsen			FORMWORK GEOMETRY	ACI-CCSI/ICC-RCSI	PERIODIC	Inspect formwork for shape, location, dimensions, and finish member being formed and for conformance to the Contract 301 Section 2 and ACI 318 Sections 6.1, 6.3, and 6.4.
International Building Code (IBC 2015	<ol> <li>It includes a schedule of Sp</li> </ol>	pecial Inspection services appl	ce with the Special Inspection and Structural Testing requirements of the 2015 cable to this project as well as the name of the Special Inspection coordinator and the Statement of Special Inspections encompasses the following disciplines:	MIX DESIGN	ACI-CCSI/ICC-RCSI	CONTINUOUS	Review concrete batch tickets and verify compliance with ap Verify that water added at the site does not exceed that allow design.
STRUCTURAL. The Special Inspection Professional in Responsible Charge (F	ion Coordinator shall keep recording RDP). Discovered discrepance	cords of all inspections and sha cies shall be brought to the imm	I furnish inspection reports to the Building Official and the Registered Design nediate attention of the contractor for correction. If such discrepancies are not The Special Inspection program does not relieve the contractor of his or her	MATERIAL CERTIFICATION	ACI-CCSI	PERIODIC	Review in-plant all materials, manufacturer's certifications, a conformance to Contract Documents.
Interim reports shall be submitted to th	-			MATERIAL CERTIFICATION	ACI-CCSI	PERIODIC	Maintain records of all material certificates and mill reports constituent materials and steel reinforcement
by the Special Inspection Coordinator Job site safety and means and method	prior to issuance of a Certifica	ate of Use and Occupancy.	testing, and correction of any discrepancies noted in the inspections shall be submitted			Section 3.3. Inspect size, sp Contract Documents. Verify and mechanical splices. Ver	orcement for compliance with ACI 318 Sections 7.3, 7.4, 7.5, 7.6 acing, cover, positioning, and grade of reinforcing steel for comp that bars are adequately tied and supported on chairs or bolsters ify that reinforcing bars are free of form oil or other deleterious m
nterim reports shall be submitted mor	•			REINFORCEMENT INSTALLATION	ACI-CCSI/ICC-RCSI	frequency as noted: PERIODIC	For slabs-on-grade, foundations, and walls
			ADD TESTING AGENCIES ADDRESS TELEPHONE #			PERIODIC	Inspect inserts and accessories.
Special Inspection Coordinator		TBD	TBD TBD	WELDING OF REINFORCING	ACI-CCSI/ICC-RCSI	PERIODIC	Visually inspect all reinforcing steel welds. Verify weldabili Inspect preheating of steel when required. Verify that the ASTM A706 material.
Inspector Note: The inspectors and testing age	ncies shall be engaged by the	TBD e Owner or the Owner's Agent red or tested. Any conflict of int	TBD     TBD       n accordance with Section 1704.1 the 2015 International Building Code (IBC 2015) and erest must be disclosed to the Building Official prior to commencing work.			PERIODIC	Review plant quality control procedures for material storag ensure compliance with ACI 301 Sections 4.1.3, 7.1, and 7
			OR'S RESPONSIBILITY			PERIODIC	Review that plant procedures for establishing mix design s compliance with ACI 301 Sections 4.1 and 4.2 and with AC 5.2, 5.3, 5.4, and 5.8.
n accordance with IBC 2015 Section	1704.4, each contractor respondent	onsible for the construction or f becial inspections above must s	abrication of a main wind-force resisting system or a seismic-force-resisting system or submit a Statement of Responsibility to the Structural Engineer of Record, the building	BATCHING PLANT	ACI-CCSI/ICC-RCSI	PERIODIC	Inspect plant to ensure compliance of mix constituents with ACI 318 Chapter 3 and ACI 301 Sections 4.2 and 7.2.
requirements contained in the stateme	ent of special inspections.		of responsibility shall contain acknowledgement of awareness of the special			PERIODIC	Inspect that mixing and ready-mix equipment and vehicles Sections 5.7 and 5.8 and with ASTM C 94.
The qualifications of all personnel perf			S AND TESTING TECHNICIANS			CONTINUOUS	Maintain records of all ready-mix truck contents and dispat Inspect size, grade, positioning, and embedment of anchor
technicians shall be provided. Key for Minimum Qualifications of Insp	pection Agents:			ANCHOR RODS	ACI-CCSI/ICC-RCSI	PERIODIC	to Contract Documents prior to concrete placement. Inspect concrete placement and consolidation around anch
as indicated below, such designation s	shall appear below the Agency	y Number on the Schedule.	dividual performing a stipulated test or inspection have a specific certification or license			CONTINUOUS	Inspect placement of concrete. Verify that concrete converse avoids segregation or contamination. Verify that concrete
PE/SE PE/GE			the design of building structures in soil mechanics and foundations				Prior to allowing ready-mix trucks to deposit concrete, reviverify concrete mix compliance with project specifications,
EIT		g – a graduate engineer who ha RICAN CONCRETE INSTITUT	s passed the Fundamentals of Engineering examination E (ACI) CERTIFICATION	CONCRETE PLACEMENT	ACI-CCSI/ICC-RCSI	CONTINUOUS	time, and number of mixing drum revolutions. Reject conc mixed for more than 90 min. or 300 drum revolutions. Maintain records correlating concrete batching information
ACI-CFTT ACI-CCSI		ing Technician – Grade 1 ion Special Inspector				CONTINUOUS	placement in the finished work. Inspect all concrete place with ACI 318 Section 5.9 and 5.10; and ACI 301 Sections
ACI-LTT ACI-STT	Laboratory Testing T	Technician – Grade 1&2				CONTINUOUS	Inspect for conformance to all approved hot- and cold-weat placement procedures. Collect and test concrete samples per ACI 318 Section 5.0
	AME	ERICAN WELDING SOCIETY	AWS) CERTIFICATION	SAMPLING AND TESTING OF	ACI-CFTT/ACI-STT	CONTINUOUS	cylinders for each 150 cu yd of concrete or 5,000 sq ft of s placed), but not fewer than four cylinders for each day's po
AWS-CWI AWS/AISC-SSI	Certified Welding Ins	•		CONCRETE		CONTINUOUS	Measure slump (ASTM C143), temperature (ASTM C1064 C138), and air content (ASTM C173) for all concrete samp pumped concrete, measure at point of deposit.
ICC-SMSI	INTE Structural Masonry S	ERNATIONAL CODE COUNCI	- (ICC) CERTIFICATION	CURING AND PROTECTION	ACI-CCSI/ICC-RCSI	CONTINUOUS	Inspect all placements for conformance to Contract Docur Sections 5.11, 5.12, and 5.13 and to curing and protection by SER
ICC-SWSI		Welding Special Inspector		IN SITU CONCRETE STRENGTH	ACI-CCSI/ICC-RCSI	PERIODIC	Verify in situ concrete strength prior to removal of shores and structural slabs in accordance with ACI 318 Section 6
ICC-PCSI	Prestressed Concret	ete Special Inspector		LABORATORY EVALUATION OF CONCRETE STRENGTH	ACI-LTT	CONTINUOUS	Test for conformance to specifications in accordance with As a minimum, perform compression tests on one cylinde cylinders at twenty-eight days.
ICC-RCSI	Reinforced Concrete	· ·	NGINEERING TECHNOLOGIES (NICET)			CONTINUOUS	Verify that existing reinforcing steel is not cut when drilling anchors.
NICET-CT NICET-ST	Concrete Technician Soils Technician - Le	n – Levels I, II, III & IV evels I, II, III & IV			ACI-CCSI/ICC-RCSI	CONTINUOUS	Inspect holes prior to installation of adhesive to verify that and prepared in accordance with the manufacturer's instru- embedment depth indicated on the Contract Documents.
NICET-GET	Geotechnical Engine	eering Technician - Levels I, II,	III & IV	ADHESIVE DOWELS	AUI-UUSI/IUU-RUSI	CONTINUOUS	Verify that adhesive material is in accordance with the Co Verify that the material is stored, mixed, and injected in ac manufacturer's instructions.
DDECAST		CONSTRUCT				CONTINUOUS	
PRECAST		CONSTRUCTI CI 318-14 SEC	ON - IBC 2015 SECTION 1705.3 / TION 26.13			CONTINUOUS	Verify that the dowel or anchor materials, lengths, diamete
ITEM		CI 318-14 SEC	TION 26.13	EXPANSION ANCHORS	ICC-SMSI		Verify that the dowel or anchor materials, lengths, diamete finishes are in accordance with the Contract Documents.
ITEM PLANT CERTIFICATION/QUALITY	A	CI 318-14 SEC	Y       SCOPE         Review plant quality control procedures.         Inspect plant storage and handling procedures.	EXPANSION ANCHORS VAPOR BARRIER	ICC-SMSI ACI-CCSI/ICC-RCSI	PERIODIC	Verify that the dowel or anchor materials, lengths, diameter finishes are in accordance with the Contract Documents.         Verify that existing reinforcing steel is not cut when drilling         Inspect installation. Verify manufacturer, type, diameter, n seating of washer, embedment and torque of anchors are Contract Documents.         Inspect installation of subgrade vapor retarder for complia
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ITEM I PLANT CERTIFICATION/QUALITY CONTROL PROCEDURES FORMWORK GEOMETRY I FORMWORK GEOMETRY I REINFORCEMENT INSTALLATION I REINFORCING STEEL WELDING STEEL WELDING STEEL WELDING OF FRESH CONCRETE AND EMBEDDED ITEMS IN CONCRETE EXPOSED TO TENSION AND SHEAR I MIX DESIGN I MATERIAL CERTIFICATION I MATERIAL CERTIFICATION I SAMPLING OF FRESH CONCRETE AND EVALUATION OF CONCRETE STRENGTH I	AGENCY AGENCY ICC-RCSI	CI 318-14 SEC INSPECTION FREQUENC PERIODIC	VIDEN 26.13           Y         SCOPE           Review plant quality control procedures.         Inspect plant storage and handling procedures.           Confirm that approved submittals are in the plant and are being used for fabrication.         Review welder's certifications.           Monitor finished product for structural defects (cracks).         Inspect form sizes, geometry, and finishes per the Contract Documents.           Inspect location, size, condition, cover, and placement of all reinforcement (including prestressing tendons if applicable), reinforcement supports, inserts, and accessories for conformance to approved shop drawings and to Contract Documents.           Inspect placement of all reinforcement for compliance with ACI 318 Sections 25.2, 25.3, 26.6.1 - 26.8 and ACI 301 Section 3.3.           Verify weldability of reinforcing steel other than ASTM A706 per IBC 1705.3.           Inspect inferface connections including end and edge doweling.           Inspect interface connections including end and edge doweling.           Inspect or proper mix proportions and mix technique per ACI 318 Chapter 19 and Section 26.4.3 and 26.4.4.           Review in field all materials, manufacturer's certifications, mill reports, etc., for conformance to Contract Documents.           Maintain records of all materials, manufacturer's certifications, mill reports, etc., for conformance to Contract Documents.           Maintain records of all materials, manufacturer's certifications, mill reports, etc., for conformance to Contract Documents.           Measure slump (ASTM C143), temperature (ASTM C	VAPOR BARRIER	ACI-CCSI/ICC-RCSI	PERIODIC         PERIODIC	Verify that the dowel or anchor materials, lengths, diameter finishes are in accordance with the Contract Documents.         Verify that existing reinforcing steel is not cut when drilling         Inspect installation. Verify manufacturer, type, diameter, r seating of washer, embedment and torque of anchors are Contract Documents.         Inspect installation of subgrade vapor retarder for complia approved installation procedures and with Contract Documents approved installation procedures and with Contract Documents.         Description         Description         Construction to Accept Welding As PER THE FOLOMS TRUCTION TO ACCEPT WELDING AS PER THE FOLOM 3 COLUMNS AND 6 BEAMS EVENLY DISTRIBUTED THE THE PREFERABLE LOCATION FOR SAMPLING.
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ITEM I PLANT CERTIFICATION/QUALITY CONTROL PROCEDURESS FORMWORK GEOMETRY I FORMWORK GEOMETRY I REINFORCEMENT INSTALLATION I BOLTS AND EMBEDDED ITEMS IN CONCRETE EXPOSED TO TENSION AND SHEAR I MIX DESIGN I MATERIAL CERTIFICATION I MATERIAL CERTIFICATION I MATERIAL SCETTIFICATION I I MATERIALS CERTIFICATION I I MATERIALS CERTIFICATION I CONCRETE PLACEMENT STRENGTH I CURING AND PROTECTION I EVALUATION OF CONCRETE STRENGTH I CURING AND PROTECTION I I CURING AND PROTECTION I I SAMPLING OF FRESH EVALUATION OF CONCRETE STRENGTH I I CURING AND PROTECTION I I CURING AND PROTECTION I I SAMPLING OF FRESH CONCRETE PLACEMENT I I CURING AND PROTECTION I I SAMPLING OF CONCRETE STRENGTH I I SAMPLING OF CONCRETE STRENGTH I I I I I I I I I I I I I I I I I I I	AGENCY         AGENCY         ICC-RCSI          ICC-RCSI	CI 318-14 SEC INSPECTION FREQUENC PERIODIC CONTINUOUS CONTINUOUS CONTINUOUS CONTINUOUS CONTINUOUS CONTINUOUS CONTINUOUS	TION 26.13         Y       SCOPE         Review plant quality control procedures.       Inspect plant storage and handling procedures.         Confirm that approved submittals are in the plant and are being used for fabrication.       Review welder's certifications.         Monitor finished product for structural defects (cracks).       Inspect form sizes, geometry, and finishes per the Contract Documents.         Inspect form size, condition, cover, and placement of all reinforcement (including prostnessing featons), reinforcement supports, inserts, and accessories for conformance to approved shop drawings and to Contract Documents.         Inspect placement of all reinforcement for compliance with ACI 318 Sections 25.2, 25.3, 26.6.1 - 26.6.3 and ACI 301 Section 3.3.         Verify weldability of reinforcing steel other than ASTM A706 per IBC 1705.3.         Inspect inforcing steel resisting flexural and axial forces in intermediate and special moment frames and boundary elements of special reinforced concrete shear walls and shear reinforcem and boundary elements of special reinforced concrete shear walls and shear reinforcem and mix technique per ACI 318 Chapter 19 and Sections 26.4.3 and 26.4.         Review for conformance to ACI 318 and Contract Documents.         Inspect meter divide all materials, manufacturer's certifications, mill reports, etc., for conformance to Contract Documents.         Maintain records of all materials entificates, mill reports of all concrete mix constituent materials, and reports of steel reinforcement.         Collect and test concrete samples per ACI 318 Sections 26.12 but not fewer than three cylinders	VAPOR BARRIER VELDING N VELDING N THE GENERAL CONTRACTOR 1. SAMPLE EXISTING BUILDING N 2. TEST THE STEEL SAM 3. DETERMINE WELDABI QUANTITIES OF EACH 4. PREPARE A WELDING	ACI-CCSI/ICC-RCSI	PERIODIC PERIODIC PERIODIC PERIODIC PERIODIC PERIODIC PERIODIC	Verify that the dowel or anchor materials, lengths, diame finishes are in accordance with the Contract Documents. Inspect installation. Verify manufacturer, type, diameter, seating of washer, embedment and torque of anchors an Contract Documents. Inspect installation of subgrade vapor retarder for compli- approved installation procedures and with Contract Docu sproved installation procedures and with Contract Docu Section 2012 States and States an
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ITEMITEMPLANT CERTIFICATION/QUALITY CONTROL PROCEDURESFORMWORK GEOMETRYFORMWORK GEOMETRYREINFORCING STEEL WELDINGREINFORCING STEEL WELDINGBOLTS AND EMBEDDED ITEMS IN CONCRETE EXPOSED TO TENSION AND SHEARMIX DESIGNMATERIAL CERTIFICATION RECORDSMATERIAL CERTIFICATION RECORDSSAMPLING OF FRESH CONCRETE AND EVALUATION OF CONCRETE STRENGTHCONCRETE PLACEMENT CURING AND PROTECTIONEVALUATION OF CONCRETE STRENGTHCURING AND PROTECTIONEVALUATION OF CONCRETE STRENGTHPRESTRESSING OPERATIONSASSEMBLED/ERECTED PRECAST ELEMENTSERECTION AND CONNECTIONS FOR PRECAST ELEMENTS	AGENCY         ICC-RCSI	CI 318-14 SEC INSPECTION FREQUENC PERIODIC CONTINUOUS CONTINUOUS CONTINUOUS CONTINUOUS CONTINUOUS CONTINUOUS CONTINUOUS CONTINUOUS CONTINUOUS CONTINUOUS CONTINUOUS	TION 26.13           *         SCOPE           Review plant quality control procedures.         Inspect plant storage and handling procedures.           Confirm that approved submittals are in the plant and are being used for fairication.         Review welder's certifications.           Monitor finished product for structural defects (cracks).         Inspect form sizes, geometry, and finishes per the Contract Documents.           Inspect focation, size, condition, cover, and placement of all reinforcement (pucluing prestressing tendons if applicable), reinforcement supports, inserts, and accessories for conformance to approved shop frawings and to Contract Documents.           Inspect placement of all reinforcement for compliance with ACI 318 Sections 25.2, 25.3, 26.6.1 - 26.6.3 and ACI 301 Section 3.3.           Verify weldability of reinforcing steel other than ASTM A706 per IBC 1705.3.           Inspect interface connections including end and edge doweling.           Inspect reinforcing steel resisting flexural and axial forces in intermediate and special mentiframes and boundary elements of special reinforced concrete stear walls and shear reinforcement.           Inspect meet for proper incorporptions and mix technique per ACI 318 Chapter 19 and Sections 26.4.3 and 26.4.4.           Review in field all materials certificates, mill reports of all concrete mix constituent materials, and reports of steel reinforcement.           Collect and test concrete samples per ACI 318 Section 26.12 but not fewer than three onlyneing and CS67 for lightweight (ASTM C1064), weight (ASTM C1037 for normal-weight and CS67 for lightweight (ASTM C1073 for normal	VAPOR BARRIER VELDING N VELDING N THE GENERAL CONTRACTOR 1. SAMPLE EXISTING BUILDING N 2. TEST THE STEEL SAM 3. DETERMINE WELDABI QUANTITIES OF EACH 4. PREPARE A WELDING	ACI-CCSI/ICC-RCSI	PERIODIC PERIODIC PERIODIC PERIODIC PERIODIC PERIODIC PERIODIC	Verify that the dowel or anchor materials, lengths, diame finishes are in accordance with the Contract Documents. Inspect installation. Verify manufacturer, type, diameter, seating of washer, embedment and torque of anchors an Contract Documents. Inspect installation of subgrade vapor retarder for compli- approved installation procedures and with Contract Docu sproved installation procedures and with Contract Docu Section 2012 States and States an
ITEMITEMPLANT CERTIFICATION/QUALITY CONTROL PROCEDURESFORMWORK GEOMETRYFORMWORK GEOMETRYREINFORCEMENT INSTALLATIONREINFORCING STEEL WELDINGBOLTS AND EMBEDDED DTEMS IN CONCRETE EXPOSED TO TENSION AND SHEARMIX DESIGNMIX DESIGNMATERIAL CERTIFICATION RECORDSMATERIAL CERTIFICATION RECORDSMATERIAL CERTIFICATION SHEARCONCRETE AND EVALUATION OF CONCRETE STRENGTHCONCRETE PLACEMENT STRENGTHCURING AND PROTECTION PRESTRESSING OPERATIONSFASSEMBLED/ERECTED PRECAST ELEMENTSERECTION AND CONNECTIONS FOR PRECAST ELEMENTS	AGENCY         ICC-RCSI	CI 318-14 SEC INSPECTION FREQUENC PERIODIC CONTINUOUS CONTINUOUS CONTINUOUS CONTINUOUS CONTINUOUS CONTINUOUS CONTINUOUS CONTINUOUS CONTINUOUS CONTINUOUS CONTINUOUS	TION 26.13         SCOPE           Review plant quality control procedures.         Inspect plant storage and handling procedures.           Confirm that approved submittals are in the plant and are being used for fabrication.         Monitor finished product for structural defects (cracks).           Inspect location, size, condition, cover, and placement of all reinforcement (including presizes ing lendoms if applicable), reinforcement supports, inserts, and accessories for confirmance to approved submittals are in the plant and are being used for fabrication.           Inspect location, size, condition, cover, and placement of all reinforcement (including presizes ing lendoms if applicable), reinforcement supports, inserts, and accessories for confirmance to approved submittals and to Contract Documents.           Inspect placement of all reinforcement for compliance with ACI 318 Sections 25.2, 25.3, 26.8.1 - 26.6.3 and ACI 301 Section 3.3.           Verify weldability of reinforcing steel other than ASTM A706 per IBC 1706.3.           Inspect interface connections including end and edge doweling.           Inspect inforcing steel reinforcement.           Inspect informations and mits technique per ACI 318 Chapter 19 and Sections 26.4.3 and 26.4.4.           Review for conformance to ACI 318 and Contract Documents.           Inspect informations, and mits technique per ACI 318 Chapter 19 and Sections 26.1.3 for conformance to ACI 318 Section 26.1.20 for conformance to Contract Documents.           Maintain records of all material certificates, mill reports of all concrete mix constituent materials, and reports of section 26.1.218 bections 26.5.2, accc 5	VAPOR BARRIER VELDING N VELDING N THE GENERAL CONTRACTOR 1. SAMPLE EXISTING BUILDING N 2. TEST THE STEEL SAM 3. DETERMINE WELDABI QUANTITIES OF EACH 4. PREPARE A WELDING	ACI-CCSI/ICC-RCSI	PERIODIC PERIODIC PERIODIC PERIODIC PERIODIC PERIODIC PERIODIC	Verify that the dowel or anchor materials, lengths, diameter finishes are in accordance with the Contract Documents.         Verify that existing reinforcing steel is not cut when drilling         Inspect installation. Verify manufacturer, type, diameter, r seating of washer, embedment and torque of anchors are Contract Documents.         Inspect installation of subgrade vapor retarder for complia approved installation procedures and with Contract Documents approved installation procedures and with Contract Documents.         Description         Description         Construction to Accept Welding As PER THE FOLOMS TRUCTION TO ACCEPT WELDING AS PER THE FOLOM 3 COLUMNS AND 6 BEAMS EVENLY DISTRIBUTED THE THE PREFERABLE LOCATION FOR SAMPLING.

NSTRUCTION

PER THE FOLLOWING NOTES: RIBUTED THROUGHOUT THE

ANALYSIS REPORT LISTING THE

ECTRODE TYPES, AND PREHEAT

95.3 PE				2015 SECTION 1705.2, 16, CHAPTER N	
ensions, and finishes of the concrete e to the Contract Documents and ACI	ITEM	AGENCY	INSPECTION FREQUENCY	SCOPE	
ompliance with approved mix design.			PERIODIC	Inspect fabrication and fabricated steel during two separate plant visit beginning of fabrication and at approx. 80% complete, or as directed	
t exceed that allowed by the mix			PERIODIC	Review plant quality control procedures.	
's certifications, and mill reports for	FABRICATOR	AWS/AISC-SSI/ICC-SWSI	PERIODIC	Inspect plant storage and handling procedures.	
and mill reports of all concrete mix ent	CERTIFICATION / QUALITY CONTROL PROCEDURES		PERIODIC	Confirm that approved submittals are in the plant and are being used	
7.3, 7.4, 7.5, 7.6, and 7.7 and ACI 301 Ig steel for compliance with the chairs or bolsters. Inspect bar laps			PERIODIC	Review welder's certifications.	
her deleterious materials. Inspection			PERIODIC	File welder certifications and any other quality assurance documentate by the building department.	
			PERIODIC	Review prequalification test report for the shop coat of paint applied t connections to comply with Class A or B per RCSC Specification as	
				tion requirements will be waived if the structural steel fabricator is certification Program for Structural Steel Fabricators	
Verify weldability of reinforcing steel. Verify that the reinforcing steel is			fabricator submits evidence of	this certification.	
material storage and handling to			PERIODIC	Review mill test reports, certificates, and identification markings of al bolts, nuts, and washers for compliance with the ASTM Specifications Contract Documents and by AISC LRFD Specification Section A3.	
4.1.3, 7.1, and 7.2. Ing mix design strength to ensure 4.2 and with ACI 318 Sections 5.1,	MATERIAL CERTIFICATION	AWS/AISC-SSI/ICC-SWSI	PERIODIC	Inspect certificates of weld filler material for compliance with the AWS required by the Contract Documents and by AISC LRFD Specification	
constituents with the requirements of 4.2 and 7.2.			PERIODIC	Prior to releasing containers of fastener assembly components for interest the work, verify bolt, nut, and washer diameters and material grades	
ent and vehicles comply with ACI 318			PERIODIC	with the Contract Documents requirements. Inspect a random sample of at least 25% of all bolts in bearing-type,	
tents and dispatch times.				connections.       Verify that the plies of the connection are in firm contact         Observe and report the method used to achieve bolt tension.       Inspec	
dment of anchor rods for conformance			AS NOTED	sample of at least 25% of all bolts in pretensioned connections. All be made per the RCSC Specification. The required quantities of bo inspected may be modified at the discretion of the SER. Inspection using twist-off-type bolts or turn-of-the-nut method with match-markin periodic. Inspection of pretensioning using the calibrated wrench method the-nut method without match marking shall be continuous.	
tion around anchors.	BOLTING	AWS/AISC-SSI/ICC-SWSI			
concrete conveyance and depositing			PERIODIC	For bolts to be pretensioned, prior to the start of work field test no few complete fastener assemblies of each combination of diameter, leng	
fy that concrete is properly				with a tension calibrator. Testing shall follow the procedure to be Verify that the pretensioning method develops a pretension that i than 1.05 times the pretension specified in Table 8.1 of the RCS	
it concrete, review batch-plant ticket to t specifications, temperature, batching ns. Reject concrete that has been				The number of tests required may be increased at the discretion of the inspector.	
hing information with location of			CONTINUOUS	Inspect wrench calibration procedures on daily basis (if applicable).	
concrete placements for compliance Cl 301 Sections 5 and 7.3.		AWS-CWI/ASNT	PERIODIC	Perform weld inspections and tests per Chapter 6 of AWS D1.1.	
ot- and cold-weather concrete 318 Section 5.6 (minimum of four 5,000 sq ft of slab or wall area			PERIODIC	Perform visual inspections of all welds for conformance with the cont and erection drawings with the applicable visual inspection requirement D1.1. Verify size and length of fillet welds. Inspect pre-heat, post-heat preparation between passes. Review with SER scope of visual inspect progresses.	
or each day's pour.			FREQUENCY OF TESTING BY ULTRASONIC OR MAGNETIC PARTICLE TESTING METHO WELDS AS FOLLOWS:		
e (ASTM C1064), weight, (ASTM I concrete sampled for strength. For osit.	WELDING		PERIODIC	5% of partial penetration groove welds	
Contract Documents, ACI 318 g and protection procedures approved			CONTINUOUS	10% of all other welds including deck and floor plate welds	
oval of shores and forms from beams			CONTINUOUS	100% of all complete joint penetration walls, multi-pass fillet welds, a fillet welds greater than 5/16 in.	
ccordance with ACI 318 Section 5.6.			CONTINUOUS	100% of all remade welds	
on one cylinder at seven days and two			TBD	Additional inspection as determined by inspector and/or SER if defec	
cut when drilling holes for dowels or			PERIODIC	Inspect member sizes, milled surfaces, and installation and connection compliance with approved shop drawings and with Contract Docume	
ve to verify that holes are free of dust facturer's instructions and have the ct Documents.	STRUCTURAL FRAMING, DETAILS AND ASSEMBLIES	AWS/AISC-SSI/ICC-SWSI	PERIODIC	Verify columns are plumb within AISC tolerances.	
nce with the Contract Documents. Ind injected in accordance with the			PERIODIC	Verify columns and beams have correct piece marks and are located per appropriate drawings.	
engths, diameters, embedments, and			PERIODIC	Review mill reports for all deck material delivered to the site.	
ct Documents.			PERIODIC	Verify gauge, width, and type (profile) of deck for conformance to app drawings and with Contract Documents.	
ype, diameter, material, markings,	METAL DECK	AWS/AISC-SSI/ICC-SWSI	PERIODIC	Verify welder certifications.	
nchors are in accordance with the			PERIODIC	Inspect placement for proper installation of approved screws, puddle mechanical fasteners (if any), and accessories for compliance with S	
rder for compliance with manufacturer's Contract Documents.				and the Contract Documents. Inspect placement of deck reinforcement at openings and other disco	
			PERIODIC	compliance with approved shop drawings and with Contract Docume Inspect repair of damaged galvanized finish for compliance with Cont	
			PERIODIC		
		AWS/AISC-SSI/ICC-SWSI	CONTINUOUS	Inspect shear connectors per AWS D1.1 Chapter 7. Daily Preproduction Testing: per AWS D1.1 Section 7.7 except that	
	FIELD-INSTALLED SHEAR		CONTINUOUS	be tested and that the studs are to be capable of bending 45° from very weld failure.	
	CONNECTORS		CONTINUOUS	Verify location, diameter, and quantity of connectors. Verify that the i compliance with AWS D1.1 Chapter 7. Verify that the ferrules are re-	
				Inspection of production stud: Ring test all shear connectors with a 3 Bend test a minimum of two studs at one-third points along each bea	

	REFERENCES
CODE/STANDARD	TITLE
ACI 301-10	Standard Specifications for Structural Concrete.
ACI 318-14	Building Code Requirements for Structural Concrete
AISC 360-10	Specification for Structural Steel Buildings
ASTM A6-14	Specification for General Requirements for Rolled Steel Plates, Shapes, Sheet Piling, and Bars for Structural Use.
ASTM A568-14	Specification for Steel Sheet, Carbon and High-Strength, Low-Alloy, Hot-Rolled and Cold Rolled, General Requirements For
ASTM C31-12	Practice for Making and Curing Concrete Test Specimens in the Field
ASTM C94-14b	Specification for Ready-Mixed Concrete
ASTM C109-13	Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 2 in. or 50 mm Cube Specimens)
ASTM C138-14	Test Method for Unit Weight, Yield and Air Content (Gravimetric) of Concrete
ASTM C143-12	Test Method for Slump of Hydraulic Cement Concrete.
ASTM C172-14a	Practice for Sampling Freshly Mixed Concrete
ASTM C173-14	Test Method for Air Content of Freshly Mixed Concrete by the Volumetric Method.
ASTM C231-14	Test Method for Air Content of Freshly Mixed Concrete by the Pressure Method
ASTM C567-14	Test Method for Unit Weight of Structural Lightweight Concrete
ASTM C1064-12	Test Method for Temperature of Freshly Mixed Portland Cement Concrete
ASTM C1090-10	Test Method for Measuring Changes in Height of Cylindrical Specimens from Hydraulic Cement Grout
ASTM C1314-14	Test Method for Constructing and Testing Masonry Prisms Used to Determine Compliance with Specified Compressive Strength of Ma
AWS D1.1-2010	Structural Welding Code – Steel
APPLICABLE BUILDING CODE	International Building Code 2015
RCSC-2009	Specification for Structural Joints Using High Strength Bolts

	PERKINS
	225 Franklin Street, Suite 1100
e plant visits scheduled at s directed by the RDP	Boston, MA 02110 t 617.478.0300 f 617.478.0321 www.perkinswill.com
	CLIENT
	Maine Medical Center
eing used for fabrication.	E
ocumentation as required	22 Bramhall Street
t applied to slip critical cation as required. or is certified by the	Portland, ME 04102
ings of all structural steel,	CONSULTANTS
n the AWS Specifications	civil/ landscape architect Sebago Technics
ents for incorporation into	75 John Roberts Road, Suite 1A, South Portland ME 04106
ing-type, snug-tightened	STRUCTURAL ENG/ BUILDING ENVELOPE CONSULTANT
n. Inspect a random ons. All inspections shall	MEPFP ENGINEER/ CODE AKF Group LLC
spections shall spection of pretensioning ch-marking shall be rench method or turn-of-	99 Bedford Street, 2nd Floor, Boston MA 02111
est no fewer than three eter, length, grade, and lot	CONSTRUCTION MANAGER Turner Construction 2 Seaport Lane, Suite 200, Boston MA 02210
to be used in the work. that is equal to or greater RCSC bolt specification. etion of the SER or	ELEVATOR CONSULTANT
licable).	VDA (Van Deusen & Associates) 101 Summer Street, 4th Floor, Boston MA 02110 D
D1.1.	COST ESTIMATOR D. G. Jones International
n the contract documents requirements of AWS t, post-heat and surface sual inspection as work	3 Baldwin Green Common, Suite 202, Woburn MA 01801
IETHODS OF OTHER	
welds, and single-pass	PROJECT TITLE
	Visitor Garage Expansion
R if defects are revealed	22 Bramhall Street Portland, ME 04102
connection details for Documents.	
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<u>.</u>	JOHN H
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ce with SDI, AWS D1.3,	
Documents.         with Contract Documents.	
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cept that five studs are to 5° from vertical without 7 that the installation is in	PROJECT KEY PLAN
es heam to 45° using a	
ember is to be tested.	
	GARAGE
	OVERALL KEY PLAN 1 - NOT USED
	2 - CONGRESS STREET 3 - VISITOR GARAGE 4 - EAST TOWER 5 - CENTRAL UTILITY PLANT
	B 6 - BEAN BUILDING 7 - RICHARDS BUILDING 8 - MAINE GENERAL BUILDING
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	8 Proventier
	TRUE NORTH
	CONSTRUCTION DOCUMENT SE
	SEPTEMBER 29, 2017
rength of Masonry	PERMIT SET         03.29.18           PERMIT SET         03.09.18
	NO         ISSUE         DATE           Job Number         152182.000
	A Checked BMT
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	TESTS AND INSPECTIONS
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