

ARCHITECTURE  
SCOTT MARTSOLF - ARCHITECT

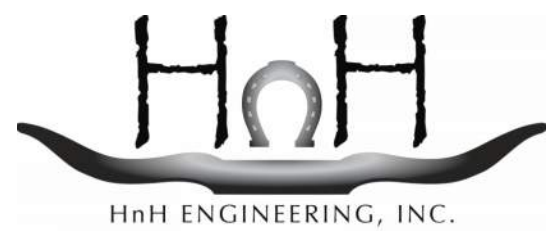
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BID SET

Drawing Title:  
SPECIAL INSPECTIONS

Project No.  
2023.297

Date:  
12/20/2023



Sheet No.

S0.1

12.20.23

Required Inspection Verification, or Test	Verification Monitoring Frequency	Type and/or Frequency of Testing	IBC Section & Reference Criteria	Inspector Qualifications
CONCRETE CONSTRUCTION				
IBC 1705.3				
A. Reinforcing Steel	Periodic	Provide periodic inspection of reinforcing sizes, spacing, grade of rebar, and placement at the following frequency:  Columns: 10% Beams: 30% Joist: 10% Other members: randomly @ 20	IBC 1910.4 ACI 318: 3.5, 7.1-7.7 Structural Notes	Geotechnical Engineer  Qualifications based on ASTM E329 & ASTM C1077
B. Reinforcing Steel Welding		No field welding permitted.	AWS D1.4, ACI 318: 3.5.2 IBC Table 1705.2.2, Item 2b	CWI or Associate CWI
C. Inspection of anchors cast in concrete where allowable loads have been increased or where increased anchors are installed in hardened concrete members	Periodic	(Increase of allowable loads not recommended)	IBC 1908.5, 1909.1 ACI 318: 8.1.3, 21.2.8	Technician trained in field of work and has at least one year of experience.
D. Verify use of required mix design	Periodic	Each concrete placement.	IBC 1909.1 ACI 318 3.8.6, 8.1.3, 21.2.8	Qualifications based on ASTM C1077
E. Sampling of fresh concrete.	Continuous Each Concrete Placement	1. All concrete testing is to be made after water, if any, is added at site.  2. Provide a set of (4) four cylinders to be taken for every 75 cubic yards of concrete, or fraction thereof, by testing lab.  3. Monitor slump, temperature and air content of concrete and notify delivery driver if slump deviates more than plus or minus 1 inch from recommended value. Contact supplier for further directions.	IBC 1910.2, 1910.2, 1910.3 ACI 318 Ch.4, 5.2-5.4	Qualifications based on ASTM C1077
G. Inspection of concrete and shotcrete placement for proper application techniques	Continuous		IBC 1910.6, 1910.7, 1910.8 ACI 318 Ch. 5.9, 5.10	Qualifications based on ASTM C1077
H. Inspection for maintenance of specified curing temp & techniques	Periodic	Each concrete placement.	IBC 1910.9 ACI 318 5.11-5.13	Qualifications based on ASTM C1077
I. Pre-stressed concrete	Continuous	1. Application of prestressing forces.  2. Grouting of bonded prestressing tendons in seismic-force resisting systems.	ACI 318: 18.20 ACI 318: 18.18.4	Qualifications based on ASTM C1077
J. Erection of precast concrete members	Periodic		ACI 318: Ch.16	Technician trained in field of work and has at least one year of experience.
K. Post-Tensioned Concrete	Periodic	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.	ACI 318: 6.2	Qualifications based on ASTM E329
L. Formwork	Periodic	Inspect formwork for shape, location and dimensions of the concrete member being formed.	ACI 318: 6.1.1	Qualifications based on ASTM E329

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INSPECTION OF FABRICATORS FOR STRUCTURAL STEEL				
IBC 1704.2.5.2				
Fabrication & Implementation Procedures	Periodic	The Special Inspector shall verify that the fabricator maintains detailed fabrication and quality control procedures that provide a basis for inspection control of the workmanship and the fabricator's ability to conform to approved construction documents and referenced standards. The Special Inspector shall review the procedures for completeness and adequacy relative to the code requirements for the fabricator's scope of work. <u>Exception:</u> Special inspections shall NOT be required where the work is done on the premises of a fabricator registered and approved to perform such work without special inspection. Approval shall be based upon review of the fabricator's written procedural and quality control manuals and periodic auditing of fabrication practices by an approved special inspection agency. At completion of fabrication, the approved fabricator shall submit a certificate of compliance to the building official stating that the work was performed in accordance with the approved construction documents.		CWI or Licensed Engineer

Required Inspection Verification, or Test	Verification Monitoring Frequency	Type and/or Frequency of Testing	IBC Section & Reference Criteria	Inspector Qualifications
PIER FOUNDATIONS				
IBC 1705.8				
A. Pier Installation	Continuous	1. Observe drilling operations and maintain complete and accurate records for each pier. Address unforeseen subsurface conditions, if any.  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. Verify the bearing stratum is encountered at the anticipated depth. Report concrete volumes.  3. Verify conformance with the foundation recommendations provided in the project "Geotechnical Engineering Report" and the Structural Drawings issued for the project.	Geotechnical Report; Structural Notes	Geotechnical Engineer  Qualifications based on ASTM E329 & ASTM C1077
1. The Geotechnical Engineer shall be present during the excavation of the first pier shaft.				
2. All piers monitored by a representative of the Geotechnical Engineer.				
B. Additional Inspections	Continuous	4. Check reinforcing size, quantity and clearances for concrete piers. Perform additional inspections in accordance with IBC 1705.3		Qualifications based on ASTM E329 & ASTM C1077

Required Inspection Verification, or Test	Verification Monitoring Frequency	Type and/or Frequency of Testing	IBC Section & Reference Criteria	Inspector Qualifications
STEEL CONSTRUCTION				
IBC 1705.2				
A. Material verification of high-strength bolts, nuts and washers	Periodic	1. Identification markings to conform to ASTM standards specified in the approved construction documents. 2. Manufacturer's certificate of compliance required.	Structural Notes  Applicable ASTM material specs, AISC 360, Section A3.3, A3.4	CWI / Associate / Technical Graduate, AWS or CRSI
B. High-strength bolting	Periodic  Continuous or Periodic	1. Bearing-type connections.  2. Slip-critical connections.	Structural Notes  AISC 360, Section M2.5	CWI / Associate / Technical Graduate, AWS or CRSI
C. Material verification of Structural Steel	Periodic	1. Identification markings to conform to ASTM standards specified in the approved construction documents. 2. Manufacturers' certified mill test reports.	Structural Notes  ASTM A6 or ASTM A568	CWI / Associate / Technical Graduate, AWS or CRSI
D. Material verification of weld filler materials	Periodic  Periodic	1. Identification markings to conform to AWS specification in the approved construction documents. 2. Manufacturers' certificate of compliance required.	Structural Notes  AISC 360, Section A3.6	CWI / Associate / Technical Graduate, AWS or CRSI
E. Welding of Structural Steel	Continuous  Continuous  Continuous  Periodic	1. Complete and partial penetration groove welds. 2. Multipass fillet welds. 3. Single-pass fillet welds > 5/16" 4. Single-pass fillet welds ≤ 5/16" 5. Floor and roof deck welds.	Structural Notes  AWS D1.1  AWS D1.3	CWI and ASNT  CWI or Licensed Engineer
F. Welding of Reinforcing Steel	Periodic  Continuous  Continuous  Periodic	1. Verification of weldability of reinforcing steel other than A706 2. Reinforcing steel-resisting flexural and axial forces in intermediate and special moment frames, and boundary elements of special reinforced concrete shear walls and shear reinforcement. 3. Shear reinforcement. 4. Other reinforcing steel.	AISC D1.4 ACI 318.3.5.2	CWI / Associate / Technical trained in field of work and has at least one year of experience.
G. Steel frame joint details: Compliance with approved construction documents	Periodic  Periodic  Periodic	1. Details such as bracing & stiffening. 2. Member locations. 3. Application of joint details at each connection.	IBC 1704.3.2 Structural Drawings	CWI or Licensed Engineer

STRUCTURAL ABBREVIATIONS	ABOVE FINISHED FLOOR..... AFF	CAST-IN-PLACE..... C.I.P.	DRAWING (S)..... DWG (S)	FIELD VERIFY..... F.V.	INFORMATION..... INFO	MECHANICAL..... MECH	POUNDS PER SQUARE FOOT..... PSF	SCHEDULE (D)..... SCHED	TOP OF BEAM..... TOP/BM
	ADDITIONAL..... ADD'L	CEILING..... CLG	DOUBLE..... DBL	FINISHED (ED)..... FIN	INSIDE DIAMETER..... I.D.	MEZZANINE..... MEZZ	POUNDS PER SQUARE INCH..... PSI	SECTION..... SECT	TOP OF FOOTING..... TOP/FTG
	ADJACENT..... ADJ	CENTERLINE..... CL	DOWEL (S)..... DWL (S)	FINISHED FLOOR..... FIN FL	INTERIOR..... INT	MIDDLE..... MID	POWDER ACTUATED FASTENER..... PAF	SHEET..... SHT	TOP OF PIER..... TOP/PIER
	AND..... &	Connx Design Specialty Engineer..... CDSE	EACH..... EA	FLANGE..... FLG	JOINT..... JT	MISCELLANEOUS..... MISC	PRECAST CONCRETE..... P/C	SIMILAR..... SIM	TOP OF PIER CAP..... TOP/PIER CAP
	ANGLE..... I	CLEAR..... CLR	EDGE OF DECK..... EOD	FLOOR..... FL	JOIST (S)..... JST (S)	NOMINAL..... NOM	PRE ENGINEERED METAL BUILDING..... PEMB	SPECIFICATION (S)..... SPEC (S)	TOP OF STEEL..... TOS
	APPROXIMATE..... APPROX	COLUMN..... COL	ELECTRICAL..... ELEC	FLOOR DRAIN..... FD		NOT TO SCALE..... NTS	PREFABRICATED..... PREFAB	SQUARE FOOT (FEET)..... SF	TOP OF WALL..... TOW
		CONCRETE..... CONC	ELEVATION..... ELEV	FOOTING..... FTG	KIP (1000 LBS)..... K	NUMBER..... No. OR #	PRELIMINARY..... PRELIM	STANDARD..... STD	TYPICAL..... TYP
	ARCHITECT..... ARCH	CONCRETE MASONRY UNIT..... CMU	EMBEDMENT..... EMBED	GAGE OR GAUGE..... GA	KIP PER LINEAR FOOT..... KLF	ON CENTER..... OC	PROJECTION..... PROJ	STEEL..... STL	UNLESS NOTED OTHERWISE..... UNO
	ARCHITECTURAL..... ARCH'L	CONNECTION (S)..... CONNX	END OF JOIS..... EOJ	GALVANIZE (D)..... GALV	KIP PER SQUARE FOOT..... KSF	OPPOSITE..... OPP	RADIUS..... R	STIFFENER..... STIFF	VERTICAL..... VERT
	AT..... @	CONTINUOUS..... CONT	ENGINEER..... ENGR	GLUE LAMINATED WOOD BEAM..... GLB	LONG LEG HORIZONTAL..... LLH	OPPOSITE HAND..... OH	REFERENCE (REFER TO)..... REF	STIRRUPS..... STIR	WELDED WIRE REINFORCING..... WWF
	AIR CONDITIONER..... A/C	CONSTRUCTION JOINT..... CJ	EQUAL..... EQ	GRADE..... GR	LONG LEG VERTICAL..... LLV	OUTSIDE DIAMETER..... O.D.	REINFORCE (ING) (ED) (MENT)..... REINF	STRUCTURE..... STRUCT	WIND LOAD..... WL
	AIR HANDLING UNIT..... AHU	DETAIL..... DET	EQUIPMENT..... EQUIP	GRADE BEAM..... GR BM	LONG LEG HORIZONTAL..... LLH	REQUIRED..... REQ'D	REQUIRED..... REQ'D	STRUCTURAL..... STRUCTL	WITH..... w/
		DEAD LOAD..... DL	EXPANSION..... EXP	HEIGHT..... HT	LONG LEG VERTICAL..... LLV	ROOF DRAIN..... RD	ROOF OPENING..... RO	SYMMETRICAL..... SYM	WOOD..... WD
	BEAM..... BM	DEFORMED BAR ANCHOR..... DBA	EXPANSION JOINT..... EJ	HOLLOW STRUCTURAL SECTION..... HSS	MANUFACTURER..... MFR	ROOM..... RM	ROOM..... RM	SUBCONTRACTOR..... SUBCONTR	WIDE FLANGE..... WF
	BEARING..... BRG	DIAGONAL..... DIAG	EXISTING..... EXIST	HORIZONTAL..... HORIZ	MAXIMUM..... MAX	ROUND..... RND	ROUND..... RND	TEMPERATURE..... TEMP	
	BELOW FINISHED FLOOR..... BFF	DIMENSION (S)..... DIM (S)	EXTRA STRONG..... X-STR	HOOK..... HK		POINT..... PT	POINT..... PT	TONGUE AND GROOVE..... T & G	
	BETWEEN..... BTW							TOP OF BEAM..... TOP/BM	
	BOTTOM..... BOT							TOP OF FOOTING..... TOP/FTG	
	BUILDING LINE..... B.L							TOP OF PIER..... TOP/PIER	