SCHEDULE OF STRUCTURAL SPECIAL INSPECTIONS

REQUIRED VERIFICATION AND INSPECTION OF SOILS

VERIFICATION AND INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODICALLY 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

REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD
1. Inspection of reinforcing steel, including prestressing tendons, and placement.	–	X	ACI 318: 3.5, 7.1–7.7
2. Inspection of reinforcing steel welding in accordance with Table 1704.3, Item 5b.	–	–	AWS D1.4 ACI 318: 3.5.2
3. Inspection of bolts to be installed in concrete prior to and during placement of concrete where allowable loads have been increased or where strength design is used.	X	–	ACI 318: 8.1.3, 21.2.8
4. Inspection of anchors installed in hardened concrete.	–	X	ACI 318: 3.8.6, 8.1.3, 21.2.8
5. Verifying use of required design mix.	–	X	ACI 318: Ch. 4, 5.2–5.4
6. At the time fresh concrete is sampled to fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	X	–	ASTM C 172 ASTM C 31 ACI 318: 5.6, 5.8
7. Inspection of concrete and shotcrete placement for proper application techniques.	X	–	ACI 318: 5.9, 5.10
8. Inspection for maintenance of specified curing temperature and techniques.	–	X	ACI 318: 5.11, 5.13
9. Inspection of prestressed concrete:			
a. Application of prestressing forces.	N/A	–	ACI 318: 18.20 ACI 318: 18.18.4
b. Grouting of bonded prestressing tendons in the seismic–force–resisting system.	N/A	–	
10. Erection of precast concrete members.	N/A	–	ACI 318: Ch. 16
11. Verification of in–situ concrete strength, prior to stressing of tendons in posttensioned concrete and prior to removal of shores and forms from beams and structural slabs.	N/A	–	ACI 318: 6.2
12. Inspect formwork for shape, location and dimensions of the concrete member being formed.	N/A	–	ACI 318: 6.1.1

LEVEL 1 REQUIRED VERIFICATION AND INSPECTION OF MASONRY CONSTRUCTION

VERIFICATION AND INSPECTION	FREQUENCY OF INSPECTION		REFERENCED FOR CRITERIA	
	CONTINUOUS	PERIODIC	TMS 402/ACI 530/ASCE 5	TMS 602/ACI 530.1/ASCE 6
1. Compliance with required inspection provisions of the construction documents and the approved submittals shall be verified.	–	X	–	Art. 1.5
2. Verification of f'_m and f'_{AAC} prior to construction except where specifically exempted by this code.	–	X	–	Art. 1.4B
3. Verification of slump flow and visual stability index (VSI) as delivered to the site for self–consolidating grout.	X	–	–	Art. 1.5B.1.b.3
4. As masonry construction begins, the following shall be verified to ensure compliance:				
a. Proportions of site–prepared mortar.	–	X	–	Art. 2.6A
b. Construction of mortar joints.	–	X	–	Art. 3.3B
c. Location of reinforcement, connectors, prestressing tendons and anchorages.	–	X	–	Art. 3.4, 3.6A
d. Prestressing technique.	–	X	–	Art. 3.6B
e. Grade and size of prestressing tendons and anchorages.	–	X	–	Art. 2.4B, 2.4H
5. During construction the inspection program shall verify:				
a. Size and location of structural elements.	–	X	–	Art. 3.3F
b. Type, size and location of anchors, including other details of anchorage of masonry to structural members, frames or other construction.	–	X	Sec. 1.2.2(e) 1.16.1	–
c. Specified size, grade and type of reinforcement, anchor bolts, prestressing tendons and anchorages.	–	X	Sec. 1.15	Art. 2.4, 3.4
d. Welding of reinforcing bars.	X	–	Sec. 2.1.9.7.2 3.3.3.4(b)	–
e. Preparation, construction and protection of masonry during cold weather (temperature below 40°F) or hot weather (temperature above 90°F).	–	X	–	Art. 1.8C, 1.8D
f. Application and measurement of prestressing force.	X	–	–	Art. 3.6B
6. Prior to grouting, the following shall be verified to ensure compliance:				
a. Grout space is clean.	–	X	–	Art. 3.2D
b. Placement of reinforcement and connectors, and prestressing tendons and anchorages.	–	X		Art. 3.4
c. Proportions of site–prepared grout and prestressing grout for bonded tendons.	–	X	–	Art. 2.6B
d. Construction of mortar joints.	–	X	–	Art. 3.3B
7. Grout placement shall be verified to ensure compliance:	X	–	–	Art. 3.5
a. Grouting of prestressing bonded tendons.	X	–	–	Art. 3.6C
8. Preparation of any required grout specimens, mortar specimens and/or prisms shall be observed.	–	X	–	Art. 1.4

REQUIRED VERIFICATION AND INSPECTION OF WOOD CONSTRUCTION

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC
1. Verify wood species, grade, size and spacing for studs and sheathing.	–	X
2. Verify fastener size, length, spacing of mechanical connectors, floor, roof and shear wall sheathing.	–	X
3. Verify horizontal blocking in load bearing and shear walls.	–	X
4. Verify size of spacing of attachment to the foundation.	–	X
5. Verify location of shear walls.	–	X
6. For wood truss spans greater than 59 feet verify temporary and permanent restraint/bracing is installed in accordance with the manufacturers requirements.	–	X

REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD
1. Material verification of high–strength bolts, nuts and washers:			
a. Identification markings to conform to ASTM standards specified in the approved construction documents.	–	X	AISC 360, Section A3.3 and applicable ASTM material standards
b. Manufacturer's certificate of compliance required.	–	X	–
2. Inspection of high–strength bolting:			
a. Snug–tight joints.	–	X	AISC 360, Section M2.5
b. Pretensioned and slip–crtitical joints using turn–of–nut with matchmaking, twist–off bolt or direct tension indicator methods of installation.	–	X	
c. Pretensioned and slip–critical joints using turn–of–nut without matchmarking or calibrated wrench methods of installation.	X	–	
3. Material verification of structural steel and cold formed steel deck:			
a. For structural steel, identification markings to conform to AISC 360.	–	X	AISC 360, Section M5.5
b. For other steel, identification markings to conform to ASTM standards specified in the approved construction documents.	–	X	Applicable ASTM material standards
c. Manufacturer's certified test reports.	–	X	–
4. Material verification of weld filler materials:			
a. Identification markings to conform to AWS specifications in the approved construction documents.	–	X	AISC 360, Section A3.5 and applicable AWS A5 documents
b. Manufacturer's certificate of compliance required.	–	X	–
5. Material verification of load bearing metal stud:			
a. Verify metal strength, size, gage and spacing for studs, lintels and track.	–	X	–
b. Verify fastener size, length, spacing of mechanical connectors, floor, roof and shear wall sheathing.	–	X	–
c. Verify lateral bracing in load bearing walls and verify lintel stiffeners.	–	X	–
d. Verify size of spacing of attachment to the foundation.	–	X	–
e. Verify location of shear walls.	–	X	–
6. Inspection of welding:			
a. Structural steel and cold–formed steel deck:			
1) Complete and partial joint penetration groove welds.	X	–	AWS D1.1
2) Multipass fillet welds.	X	–	
3) Single–pass fillet welds > $\frac{5}{16}$"	X	–	
4) Plug and slot welds.	X	–	
5) Single–pass fillet welds ≤ $\frac{5}{16}$"	–	X	
6) Floor and roof deck welds.	–	X	AWS D1.3
b. Reinforcing steel:			
1) Verification of weld ability of reinforcing steel other than ASTM A 706.	–	X	AWS D1.4 ACI 318: Section 3.5.2
2) 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	–	
3) Shear reinforcement.	X	–	
4) Other reinforcing steel.	–	X	
7. Inspection of steel frame joint details for compliance:			
a. Details such as bracing and stiffening.	–	X	–
b. Member locations.	–	X	–
c. Application of joint details at each connection.	–	X	–

SPECIAL INSPECTIONS:

1. SPECIAL INSPECTIONS ARE REQUIRED FOR THIS PROJECT
2. SPECIAL INSPECTION SHALL BE IN ACCORDANCE WITH THE REFERENCED CRITERIA OF CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE.
3. SPECIAL INSPECTIONS SHALL BE DONE AS THE WORK PROGRESSES.
4. FOR EACH CONSTRUCTION ACTIVITY LISTED FOR INSPECTION THE INSPECTOR SHALL BE ON SITE PERIODICALLY OR CONTINUOUSLY AS INDICATED WHILE THE WORK IS BEING PERFORMED.
5. NON–COMPLIANT WORK SHALL REPORTED BY THE SPECIAL INSPECTOR AND CORRECTED BY THE GENERAL CONTRACTOR. A FOLLOW UP INSPECTION SHALL BE PERFORMED TO CONFIRM COMPLIANCE OF THE CORRECTIVE ACTION.
6. THE SPECIAL INSPECTOR SHALL PERFORM A FINAL INSPECTION ONCE THE ACTIVITY IS COMPLETED TO CONFIRM COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS.

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WILLIAM O. WHISONANT LICENSE No. 74020 07/31/18 STATE OF FLORIDA PROFESSIONAL ENGINEER

NO.	DATE	REVISION

HOME 2 SUITES
BERRYMAN ROAD
VICKSBURG, MS 39180

RELEASED FOR:
□PRELIMINARY ONLY
□BIDDING/PRICING
■PERMIT
■CONSTRUCTION
DATE : 07–31–18

DRAWING TITLE:
STRUCTURAL SPECIAL INSPECTIONS

SCALE:
PROJECT NO: 017P02
DATE: 07-31-18
DRAWN BY: HVS
CHECKED BY: WLOW

SHEET NO:
S002

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