TECHNICAL SPECIFICATIONS

Please refer to the Drawings for the unique project information; refer to the Technical Specifications for the "standardized" written requirements, ignoring those "material standards" and "construction requirements" that do not apply to the work as indicated by the Drawings.

MATERIAL STANDARDS

MS2 SITE

1. Site Improvements----------FS-RR-H-1070

   a. Roads and Walks:
      Concrete Work (See MS3)
      Bituminous Work – Asphalt Institute Standards

   b. Drainage:
      Drain tile, pipe and culvert-----Appropriate ASTM standards & Federal Specifications

MS3 CONCRETE

1. Material Chapters of Building Code Requirements for:
   Reinforced Concrete----------ACI 318
   Structural Concrete in Buildings----------ACI 301

2. Cementitious Materials
   Portland Cement----------ASTM C-150
   Aggregate
      Normal Weight----------ASTM C-33
      Light Weight----------ASTM C-330

3. Reinforcement
   Cold-drawn Steel Wire----------ASTM C-82
   Deformed Billet Steel----------ASTM C-615

4. Admixtures
   Air entraining----------ASTM C-260
   Fly Ash----------ASTM C-618
   Pozzolan (raw or calcined)----------ASTM C-618
   Chemical----------ASTM C-494

5. Ready-mixed Concrete----------ASTM C-94

6. Expansion Joint Materials----------FS-HH-F-341E, ASTM D-994, D-1751 & 1752

7. Penetration Resistance of Hardened Concrete---------ASTM C-803

MS4 MASONRY

1. Code & Industry Standard

   Brick Masonry: SCPI, Building Code Requirements for Engineered Brick Masonry.

   Concrete Masonry: NCMA Specifications for the Design and Construction of Load Bearing Concrete Masonry

2. Cementitious Materials
   Portland Cement----------ASTM C-150
   Portland Cement, Air Entraining----------ASTM C-175
   Hydrated Lime, Type S----------ASTM C-207
   Quick Lime----------ASTM C-5
   Gypsum----------ASTM C-91
   Masonry Cement----------ASTM C-91
   Aggregate----------ASTM C-144

3. Mortar and Grout
   Reinforced Masonry----------ASTM C-476
   Other Types M, S, N or O----------ASTM C-270
   Other Mortars----------ASTM C-447

4. Building Brick
   Clay Brick----------ASTM C-62
   Facing Brick----------ASTM C-216
   Sewer and Manhole Brick----------ASTM C-32
   Paving Brick----------ASTM C-7
   Hollow Brick----------ASTM C-652

5. Concrete Masonry
   Hollow Units----------ASTM C-90
   Hollow Non-loadbearing----------ASTM C-129
   Solid Units----------ASTM C-145
   Cast Stone----------ACO 704
   Cold-drawn Steel Wire (joint reinf.)----------ASTM A-82

6. Miscellaneous Masonry
   Ceramic Tile----------TCA 137

MS5 METALS

Aluminum – AA, Aluminum Construction Manual

Steel Materials & Fasteners – Appropriate ASTM Standard

MS6 CARPENTRY

Dimension, Board Lumber and Timbers----------PS-20
Softwood Plywood----------PS-1
Structural Glued Laminated Timber----------PS-56
Pressure Treated Lumber and Plywood----------AWPB
Basic Hardboard----------PS-58
Hardboard Siding----------PS-60
Treated Millwork----------NWMA IS 4
Fire Retardant Pressure Treatment
   Lumber----------AWPA C-20
   Plywood----------AWPA C-27

Nails----------FS FF-N-105
Screws----------FS FF-S-111
Bolts----------FS FF-B-561 or 571

MS7 THERMAL AND MOISTURE PROTECTION

1. Waterproofing and Dampproofing
   Asphalt----------ASTM D-449
   Felt, Asphalt-saturated----------ASTM D-226
   Clay Drain Tile----------ASTM C-4
   Perforated Clay Pipe----------ASTM C-700

2. Vapor Barriers
   Under Concrete and as Ground Cover---------ASTM E-154
   Polyethylene Plastic Sheets----------ASTM D-2103

3. Buoilding Insulation
   Duct Insulation----------FS HH-I-558
   Urethane Board (k=0.17)----------FS HH-I-530
   Extruded Polystyrene Board (k=0.20)----------FS HH-I-524
   Molded Polystyrene "Beadboard" (k=0.27)-------FS HH-I-524
   Perlite Board Roof Insulation (k=0.36)---------FS HH-I-529
   Perimeter Insulation----------FS HH-I-524
   Vermiculite Wall Filler----------FS HH-I-585, Class 2

4. Sheet Metal
   Aluminum------Aluminum Sheet Metal in Bldg. Construction, AA

   Galvanized Steel or Iron----------ASTM C-516 or A-525

5. Caulking and Sealants
   Elastomeric Type----------FS TT-S-227 or 230
   Oil and Resin Base Type----------FS TT-S-598
   Silicone Rubber Base----------FS-TT-S-1543
   Butyl Rubber Base, Single-Compound---------FS-TT-S-1657

   NAAMM Spec. for Non-skinning Bulk Compounds.
   NAAMM Spec. for Non-skinning Non-resilient Preformed Compounds.

   Cellular Neoprene----------ASTM C-516

   NAAMM Spec. for Rubber-like Gasket Materials.
   NAAMM Spec. for Plastic Gasket Materials.

MS8 DOORS, WINDOWS & GLAZING PANELS

Steel Doors and Frames----------SDI 100
Wood Doors
   Hardwood, Hardboard and Plastic Faced--------NWMA IS-1
   Exterior doors----------WM 3
Aluminum Doors and Frames----------NAAM, AAMA & AA
Special Doors
   Aluminum Sliding Glass Doors----------ANSI A134.2
   Rolling Fire Doors----------NFPA No. 80

Windows and Frames
   Aluminum Prime Windows----------ANSI A134.1
   Wood Window Units----------ANSI A200.1

Hardware----------BHMA
Glass
   Glass----------FS DD-G-451
   Tempered Glass----------FS DD-G-1403
   Insulationg Glass----------SIGMA No. 65-7-2

MS9 FINISH MATERIALS

1. Exterior Wall Finishes

   Hardboard----------PS-58, ANSI A135.4
   Plywood----------PS-1 or PS-51
   Stucco----------ANSI A42.2
   Exterior Insulated Finish System
      Finish and base coat classified by UL.
      System approved and listed by Factory Mutual.
      System approved in report documents by BOCA, ICBO, SBCCI and HUD.

2. Roof Coverings
   Fiberglass Shingles (UL Class A)----------ASTM D3018-90 Type I
   Underlayment
   Asphalt Saturated Felt----------ASTM D226-89
   Building Paper-Type I Graded----------FS UU-B-790
   Single Ply EPDM Roofing Sheet----------ASTM D4637-87
   Metal Roofing----------See Drawings

3. Interior Wall and Ceiling Finish
   Acoustic Tile----------FS-SS-S-118 & AIMA

   Ceramic Wall Tile----------TCA 137.1
   Portland Cement----------ASTM C-150, Type 1
   Organic Adhesives----------ANSI A136.1
   Dry-set Portland Cement Mortar----------ASTM C-5

   Gypsum Wallboard----------ASTM C-36
   Water-resistant Backing Board----------ASTM C-6 30

   Nails----------ASTM C-514
   Laminating Adhesives----------ASTM C-475
   Hardwood and Decorative Plywood----------PS-51
   High Pressure Laminated Plastic Panel---------NEMA LD-1
   Prefinished Hardboard Paneling----------PS-59
   Basic Hardboard----------PS-58

4. Finish Flooring – Rigid
   Ceramic Tile----------TCA 137.1
   Adhesive (organic)----------ANSI A136.1
   Dry-set Portland Cement Mortar----------ANSI A118.1
   Epoxy Adhesive and Grout----------ANSI A118.3

5. Resilient Flooring
   Vinyl Composition Tile, Type IV----------FS SS-T-312
   Vinyl Sheet----------FS L-F-475

6. Painting
   Paint---Manufacturer's best-grade product and appropriate Federal Specifications.
   Spray Texture---Acceptable products are "Aristex, manufactured by The Proko Co., 1910 Wall St., Dallas TX, and "Imperial QT" manufactured by the U.S. Gypsum Co.
   Knock-Down Finish---"Plexture" as manufactured by Triarch Industries (800-537-6111).

7. Wall Coverings
   Vinyl Wall Covering---------FS CCC-W-408, Class 2, mildew resistant backing

MS10 SPECIALTIES

1. Toilet Accessories:
   Acceptable manufacturers are Accessories Specialties, Inc.; American Dispenser Co.; Bobrick Washroom Equip., Inc.; Bradley Corp.; Franklin Brass Co.; G.M. Ketchum Co.; Moore Dispensers, Inc.; The Charles Parker Co.; Watrus, Inc.; or equal.

2. Portable Fire Extinguishers
   Acceptable manufacturers are J.L. Industries; Larsen's Mfg. Co.; or equal.

3. Flagpoles
   Acceptable manufacturers are Aabec Poles; American Flagpole; Baartol; Concord; Eder; Metal Arts; Texas Flagpoles; or equal.

4. Architectural Louvers
   Comply with SMACNA "Architectural Sheet Metal Manual" recommendations for fabrication, construction details and installation. Aluminum louvers equal to Airolite Co. products.

5. Specialty Signs: Provide under an allowance as indicated.

MS11 EQUIPMENT

1. Laundry Chute:
   Acceptable manufacturers are JDA/Midland, Valient Products and Wilkinson Co.

2. Major Electric Appliances (Owner supplied)

MS12 FURNISHINGS (Owner supplied)

MS13 SPECIAL CONSTRUCTION (reserved)

MS14 ELEVATOR (see CR14)

MS15 MECHANICAL

1. General----------NFPA

2. Mechanical Ventilation
   Ventilation----------HVI-Air Flow Test AMCA-210
   Fan Noise Rating----------HVI-Sound Test AMCA-300

3. Heating
   Air Duct, Insulation----------UL-181

   Furnaces
   Gas----------AGA Listed
   Electric----------US-573, NFPA-70

   Radiation
   Baseboard----------IBR Rated
   Finned Tube----------IBR Rated
   Electric----------UL-1042, NEMA

   Humidifiers----------ARI-610

4. A/C Room Units----------UL-484, AHAM CN-1
   Sound Rating----------ARI-270
   Heat Pump----------ARI-240, UL-559

5. Plumbing
   Cast Iron Soil Pipe----------ASTM A-74, C-564 CISPI1 HS-72, CISPIHSN-72, ANSI A112.5

   Cast Iron Water Pipe----------AWWA 106, 108
   Copper Drainage Tube----------ANSI H23.6, ASTM B-88
   Copper Water Tube and Pipe K,L,M----------ANSI H23.1, ASTM B-88
   Galvanized Steel Threaded Pipe----------FS WW-P-406
   No-hub C.I. Pipe----------CISPI 301
   Plumbing Fixtures-General----------FS WW-P-406
   Plumbing Fixtures-Enameled Cast Iron----------ANSI A113-19.1
   Plumbing Fixtures-Viterous China----------ANSI A112-19.2

   Water Heaters
   Gas----------AGA Listed
   Electric----------UL-174

   Gas Piping----------NFPA-54, 58

MA16 ELECTRICAL

Materials
   All electrical work (wiring, lighting, appliance, etc.) per NEC, UL and AHLI Standards

REGISTERED ARCHITECT
Richard Molenaar
1047
Memphis, TN
STATE OF MISSISSIPPI
7/11/15

PROJECT NAME:

HOME2 SUITES BY HILTON

Old Fannin Road Flowood, Mississippi

SHEET TITLE:

PROJECT NO. 13012

LATEST REVISION:

DRAWN BY: acj

CHECKED BY:

SHEET NUMBER: SPEC2

DATE: July 11, 2015