Steel Beam — W8x15, min size.

Flooring Systems — The finish flooring, vapor barrier and subflooring may consist of any of the following systems.

System No. 1 Finish Flooring — Min. nom 19/32 in. thick wood structural panels, min grade "Underlayment" or "Single Floor". Face grain of plywood or strength axis of panels to be perpendicular to joists with joints staggered. Long edges to be T&G. System No. 2 Finish Flooring — Min. nom 19/32 in. thick wood structural panels, min grade "Underlayment" or "Single Floor". Face grain of plywood or 7/16 in. thick plywood or 7/16 in. thick oriented strand board (OSB) wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be T&G. Vapor Barrier — Commercial rosin-sized building paper, 0.010 in. thick plywood or 7/16 in. thick ply strength axis of panels to be perpendicular to joists with joints staggered.

System No. 3 Finish Flooring — Floor Topping Mixture* — Compressive strength 1500 psi min, thickness to be 1 in. min. Refer to manufacturer's instructions accompanying the material for specific mix design. UNITED STATES GYPSUM CO — Levelrock 2500, Levelrock RH Vapor Barrier — (Optional) — Commercial asphalt saturated felt,

0.030 in. thick. Subflooring — Min nom 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to joists with joints staggered Floor Mat Materials* — (Optional) — Floor mat material nom 0.4 in. thick loose laid over the subfloor. Floor topping thickness a min 1 in. over the floor mat. UNITED STATES GYPSUM CO — Type USG Sound Mat Alternate Floor Mat Materials* — (Optional) -Floor mat material ranging from 3/8 in. to 3/4 in. thick loose laid over the subfloor. Floor topping thickness a min 1 in. over the floor mat. **UNITED STATES GYPSUM CO** — Levelrock Brand Sound Reduction Board

System No. 4 Finish Flooring — Floor Topping Mixture* — 10-13 gal. of water to 170 lbs. of floor topping mixture to 595 lbs. of sand. Compressive strength 900 psi min. Thickness to be 3/4 in. min when used with 19/32 in. thick subflooring and 1 in. min when used with 15/32 in. thick subflooring. ORTECRETE CORP — Type II. Subflooring — Min nom 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to joists with joints staggered. System No. 5 Finish Flooring — Floor Topping Mixture* — Foam concentrate mixed 40:1 by volume with water and expanded at 100 psi through nozzle. Mix at rate of 1.4 cu ft of preformed foam to 94 lbs Type I Port-land cement and 300 lbs of sand with 5-1/2 gal of water. Cast density of floor topping mixture 100 plus or minus 5 pcf. Min compressive strength 1000 psi. Thickness 1-1/2 in. ELASTIZELL CORP OF AMERICA — Type FF. Vapor Barrier — (Optional)— Commercial asphalt saturated felt, 0.030 in thick. Subflooring — Min nom 19/32 in. thick wood structural panels min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to joists with joints staggered. System No. 6 Finish Flooring — Floor Topping Mixture* — 6.8 gal of water to 80 lbs bag of floor topping mixture to 1.9 cu ft of sand. Compressive strength to be 1100 psi min. Thickness to be 3/4 in. min. HACKER INDUSTRIES INC — Firm-Fill Gypsum Concrete, Firm-Fill 2010, Firm-Fill 4010, Firm-Fill High Strength, Gyp-Span Radiant.

Floor Mat Materials* — (Optional)— Floor mat material nom 1/4 in. thick adhered to subfloor with Hacker Floor Primer. Primer to be applied to the surface of the mat prior to the placement of a min 1-1/2 in. of floor-topping mixture. HACKER INDUSTRIES INC — Type Sound-Mat. Vapor Barrier — (Optional) Commercial asphalt saturated felt 0.030 in. thick. Subflooring — Min nom 19/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to joists with joints staggered System No. 7 Floor Topping Mixture* — Foam concentrate mixed 40:1 by volume with water and expanded at 100 psi through a foam nozzle. Mix at rate of 1.4 cu ft of preformed foam to 94 lbs Type I Portland Cement, 62.5 lb of Pea Gravel and 312.5 lbs of sand, with approximately 5.5 gal of water. Cast density of Floor Topping Mixture 100 (+ or -) 5 pcf. Min compressive strength 1000 psi. Thickness 1 in.

LITE-CRETE INC — Type I. Vapor Barrier — (Optional) — Commercial asphalt saturated felt, 0.030 in. thick. Subflooring — Min nom 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to joists with joints staggered. System No. 8 Finish Flooring — Floor Topping Mixture* — Foam concentrate mixed 40:1 by volume with water and expanded at 100 psi through a nozzle. Mix 94 lbs cement, 300 lbs sand, approximately 5.4 gal water, 1.2 cu ft preformed foam, 5 oz Type N fiber and 4 oz Component Z. Cast density of floor topping mixture shall be 105 (+ or -) 5 pcf with a min compressive strength of 1200 psi. Min thickness shall be 3/4 in.

ELASTIZELL CORP OF AMERICA — Type ZC. Subflooring — Min nom 19/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to joists with joints staggered. System No. 9 Finish Flooring — Floor Topping Mixture* — 5 to 8 gal of water to 80 lbs of floor topping mixture to 2.1 cu ft of sand. Min compressive strength 1000 psi. Min thickness of 3/4 in. **ULTRA QUIET FLOORS** — Types UQF-A, UQF-Super Blend, UQF-Plus 2000. Vapor Barrier — (Optional) — Commercial asphalt saturated felt, oring — Min nom 19/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to joists with joints staggered.

System No. 10 Finish Flooring — Floor Topping Mixture* — 3 to 7 gal of water mixed with 80 lbs of floor topping mixture and 1.0 to 2.1 cu ft of sand. Compressive strength to be 1000 psi min. Thickness to be 3/4 in. min when used with 19/32 in. thick sub-flooring. MAXXON CORP — Type D-C, GC, GC2000, L-R or T-F. Floor Mat Material* — (Optional)— Floor mat material nom 1/4 in. thick adhered to sub-floor with Maxxon Floor Primer. Primer to be applied to the surface of the mat prior to lath placement.

MAXXON CORP — Type Acousti-Mat. Metal lath — For use with floor mat material, 3/8 in. expanded galva-nized steel diamond mesh, 3.4 lbs/sq yd placed over the subfloor. Maxxon Floor Primer to be applied to the surface of the mat prior to the floor mat material, 3/8 in. expanded galva-nized steel diamond mesh, 3.4 lbs/sq yd placed over the floor mat material. Floor mat material nom 1/4 in. thick loose laid over the floor mat material. Floor mat material, 3/8 in. expanded galva-nized steel diamond mesh, 3.4 lbs/sq yd placed over the floor mat material. Floor mat material, 3/8 in. expanded galva-nized steel diamond mesh, 3.4 lbs/sq yd placed over the subfloor. Maxxon Floor mat material nom 1/4 in. thick loose laid over the floor mat material. MAXXON CORP — Type Acousti-Mat II. Vapor Barrier — (Optional) — Commercial asphalt saturated felt 0.030 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to joists with joints staggered. System No. 11 Finish Flooring — Floor Topping Mixture* — 4 to 7 gal of water mixed with 80 lbs of floor topping mixture and 1.4 to 1.9 cu ft of sand. Compressive strength to be 1200 psi min. Thickness to be 3/4 in. min when used with 19/32 in. thick sub-flooring or 1 in. min when used with 15/32 in. thick sub-flooring. **RAPID FLOOR SYSTEMS**—Type RF, RFP or RFU. Floor Mat Material*— (Optional)— Floor mat material nom 1/4 in. thick adhered to sub-floor with Maxxon Floor Primer. Primer to be applied to the surface of the mat prior to lath placement. MAXXON CORP — Type Acousti-Mat. Metal lath — For use with floor mat material, 3/8 in. expanded galva-nized steel diamond mesh, 3.4 lbs/sq yd placed over the floor mat material, and 1 in. over the floor mat material, 5/8 in. expanded galva-nized steel diamond mesh, 3.4 lbs/sq yd placed over the floor mat material, and 1 in. over the floor mat. MAXXON CORP — Type Acousti-Mat II. Vapor Barrier — (Optional) — Commercial asphalt saturated felt 0.030 in. thick. Subflooring — Min nom 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to joists with joints staggered. System No. 12 Finish Floor — Mineral and Fiber board*. sizes ranging from 3 ft by 4 ft to 8 ft by 12 ft. by min 1/2 in. thick. All joints to be staggered a min of 12 in. OC with adjacent sub-floor joints. HOMASOTE CO — Type 440-32 Mineral and Fiber Board Sub-flooring — 1in. by6in. T&G fastened diagonally to joists; or min nom 15/32 in. thick plywood or 7/16 in. oriented strand board (OSB) wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to joists with joints staggered. System No. 13 Finish Flooring — Floor Topping Mixture* — Compressive strength to be 2100 psi minimum. Thickness to be 1/2 in. thick wood structural panels; or 3/4 in. when used with 15/32 in. thick wood structural panels; or 3/4 in. when used with 15/32 in. thick wood structural panels; or 3/4 in. when used with 15/32 in. thick wood structural panels; or 3/4 in. when used with 15/32 in. thick wood structural panels; or 3/4 in. when used with 15/32 in. thick wood structural panels; or 3/4 in. when used with 15/32 in. thick wood structural panels; or 3/4 in. when used with 15/32 in. thick wood structural panels; or 3/4 in. when used with 15/32 in. thick wood structural panels; or 3/4 in. when used with 15/32 in. thick wood structural panels; or 3/4 in. when used with 15/32 in. thick wood structural panels; or 3/4 in. when used with 15/32 in. thick wood structural panels; or 3/4 in. when used with 15/32 in. thick wood structural panels; or 3/4 in. when used with 15/32 in. thick wood structural panels; or 3/4 in. UNITED STATES GYPSUM CO — Levelrock 3500. Levelrock

Commercial RH Vapor Barrier — (Optional) — Commercial asphalt saturated felt 0.030 in. thick. Sub-flooring — 15/32 or 19/32 in. thick wood structural panels min grade "C-D" or "Sheathing". Face grain of plywood to be perpendicu-lar to joists with joints staggered. Floor Mat Materials* — (Optional) — Floor mat material nom 0.4 in. thick loose laid over the subfloor. Floor topping thickness a min 1 in. over the floor mat. UNITED STATES GYPSUM CO — Type USG Sound Mat Alternate Floor Mat Materials* — (Optional) -Floor mat material ranging from 3/8 in. to 3/4 in. thick loose laid over the subfloor. Floor topping thickness a min 1 in. over the floor mat. **UNITED STATES GYPSUM CO** — Levelrock Brand Sound Reduction Board System No. 14 Finish Flooring — Floor Topping Mixture* — Compressive strength to be 3000 psi minimum. Thickness to be 1/2 in. thick wood structural panels; or 3/4 in. when used with 15/32 in. thick wood structural panels; or 3/4 in. when used with 15/32 in. thick wood structural panels; or 3/4 in. when used with 15/32 in. thick wood structural panels; or 3/4 in. when used with 15/32 in. thick wood structural panels; or 3/4 in. when used with 15/32 in. thick wood structural panels; or 3/4 in. when used with 15/32 in. thick wood structural panels; or 3/4 in. when used with 15/32 in. thick wood structural panels; or 3/4 in. when used with 15/32 in. thick wood structural panels; or 3/4 in. when used with 15/32 in. thick wood structural panels; or 3/4 in. when used with 15/32 in. thick wood structural panels; or 3/4 in. when used with 15/32 in. thick wood structural panels; or 3/4 in. when used with 15/32 in. thick wood structural panels; or 3/4 in. when used with 15/32 in. thick wood structural panels; or 3/4 in. When used with 15/32 in. thick wood structural panels; or 3/4 in. when used with 15/32 in. thick wood structural panels; or 3/4 in. when used with 15/32 in. thick wood structural panels; or 3/4 in. when used with 15/32 in. thick wood structural panels; or 3/4 in. when used with 15/32 in. thick wood structural panels; or 3/4 in. thick wood structural panels; or 3/ UNITED STATES GYPSUM CO — Levelrock 4500

Vapor Barrier — (Optional) — Commercial asphalt saturated felt 0.030 in. thick. Sub-flooring — 15/32 or 19/32 in. thick wood structural panels min grade "C-D" or "Sheathing". Face grain of plywood to be perpendicu-lar to joists with joints staggered. Floor Mat Materials* - (Optional) - Floor mat material nom 0.4 in. thick loose laid over the subfloor. Floor topping thickness a min 1 in. over the floor mat. UNITED STATES GYPSUM CO — Type USG Sound Mat Alternate Floor Mat Materials* — (Optional) -Floor mat material ranging from 3/8 in. to 3/4 in. thick loose laid over the subfloor. Floor topping thickness a min 1 in. over the floor mat.

UNITED STATES GYPSUM CO — Levelrock Brand Sound Reduction Board System No. 15 Finish Flooring — Floor Topping Mixture* — Compressive strength to be 3000 psi minimum. Thickness to be 3/4 in. minimum when used with 15/32 in. thick wood structural panels, or 1 in. when used with 15/32 in. thick wood structural panels, or 1 in. when used with 15/32 in. thick wood structural panels. Refer to manufacturer's instructions accompanying the material for specific mix design. **UNITED STATES GYPSUM CO**—Levelrock SLC Vapor Barrier — (Optional) — Commercial asphalt saturated felt 0.030 in. thick. Sub-flooring — 15/32 or 19/32 in. thick wood structural panels min grade "C-D" or "Sheathing". Face grain of plywood to be perpendicu-lar to joists with joints staggered. Floor Mat Materials* — (Optional) — Floor mat material nom 0.4 in. thick loose laid over the subfloor. Floor topping thickness a min 1 in. over the floor mat. UNITED STATES GYPSUM CO — Type USG Sound Mat Alternate Floor Mat Materials* — (Optional) -Floor mat material ranging from 3/8 in. to 3/4 in. thick loose laid over the subfloor. Floor topping thickness a min 1 in. over the floor mat. **UNITED STATES GYPSUM CO** — Levelrock Brand Sound Reduction Board System No. 16 Finish Flooring—Floor Topping Mixture* — Foam concentrate mixed

40:1 by volume with water and expanded at 100 psi through nozzle. Mix a rate of 1.2 cu ft of preformed foam to 94 lbs Type I Portland cement and 300 lbs of sand with 5-1/2 gal of water. Cast density of floor topping mixture 100 plus or minus 5 pcf. Min compressive strength of 1000 psi. Thickness 1-1/2 in. **CELLULAR CONCRETE L L C Vapor barrier — (Optional)** — Commercial asphalt saturated felt.

0.030 in. thick. Subflooring — 15/32 or 19/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood to be perpendicu-lar to joists with joints staggered. Flooring Fasteners — The subflooring (first layer) of each floor system or finish flooring is to be fastened to the steel joists with Type S12 by 1-15/16 in. OC around the perimeter of the flooring system No. 2, the finish flooring is to be fastened to the subflooring is to be fastened to the subflooring is to be fastened to the subflooring panels. Spacing in the field to be 10 in. OC. For flooring system No. 2, the finish flooring is to be fastened to the subflooring is to be fastened to the subflooring is to be fastened to the subflooring panels. Spacing in the field to be 10 in. OC around the perimeter of the floor and at all end (butt) joints of the subflooring is to be fastened to the subflooring is to be fastened to the subflooring system No. 2, the finish flooring is to be fastened to the subflooring is to be fastened to the subflooring is to be fastened to the subflooring back of the subflooring is to be fastened to the subflooring is to be fastened to the subflooring is to be fastened to the subflooring back of the subflooring system No. 2, the finish flooring is to be fastened to the subflooring back of the OC around the perimeter of the floor and at all end (butt) joints of the finish flooring panels. Spacing in the field to be 10 in. OC with rows of screws spaced 16 in. OC. Steel Joists — The joists are channel-shaped, 7 in. min depth with 1-5/8 in. min width flanges and 1/2 in. long stiffening flanges. The joists are overlapped a min of 3 in. Joist Stiffeners — (Not shown.) Min No. 18 MSG, galv steel. Stiffeners are channel-shaped, 6-13/16 in. long, 3-1/2 in. deep with 1-5/8 in. flanges and 1/2 in. stiffening flanges. The joists stiffeners are used at all bearing locations of the joists. Joist Bridging — (Not shown.) — Installed immediately after joists are erected and before construction loads are applied. The bridging consist-ing of 1-1/2 in. by 20-gal galvanized steel is screw-attached to bottom joist flange between bridging channels. Beam Cage — The cage used to support the gypsum wallboard beam protection is fabricated from No. 24 MSG, electrogalvanized steel channel studs, 2-1/2 in. wide with 1 in. legs. Angles are fastened to the steel joists using 1/2 in. pan head steel sheet metal screws.

8. Gypsum Board* — For Ceiling — Two layers of 1/2 in. thick sheets installed with long dimensions perpendicular to joists. Inner layer attached to assembly using 1-1/2 in. long, Type G bugle head steel screws at the butt joints, spaced 8 in. O.C. and located 3/4 in. from the edge, and in offer a steel screws at the butt joints to occur over joists. Outer layer attached to assembly using 1-1/2 in. long, Type G bugle head steel screws at the butt joints, spaced 8 in. O.C. and located 3/4 in. from the edge, and in the field with 1-5/8 in. long, Type S12 bugle head steel screws spaced 12 in. O.C. along the joists. Butt joints of outer layer to occur between joists. Edge joints to be staggered from inner layer, For Beam — Two layers of 1/2 in. OC. Joints are to be staggered. AMERICAN GYPSUM COMPANY — Type S12 bugle head steel screws spaced 12 in. OC. Joints are to be staggered. The staggered from inner layer fastened to cage using 1-5/8 in. long, Type S12 bugle head steel screws spaced 12 in. OC and outer layer fastened to cage using 1-5/8 in. long, Type S12 bugle head steel screws spaced 12 in. OC. Joints are to be staggered. AMERICAN GYPSUM COMPANY — Type S12 bugle head steel screws spaced 12 in. OC. Joints are to be staggered. The staggered from inner layer fastened to cage using 1-5/8 in. long, Type S12 bugle head steel screws spaced 12 in. OC. Joints are to be staggered. AMERICAN GYPSUM COMPANY — Type S. LAFARGE NORTH AMERICA INC — Type S. LAFARGE NORTH AMERI C/A. NATIONAL GYPSUM CO — Types FSK-C, FSW-C. PABCO GYPSUM, DIV OF PACIFIC COAST BUILDING PRODUCTS INC — Type PG-C. STANDARD GYPSUM L L C — Type PG-C. STANDARD GYPSUM L L C — Type PG-C. STANDARD GYPSUM L L C — Type PG-C. STANDARD GYPSUM CO — Type PG-C. STANDARD GYPSUM L L C — Type PG-C. STANDARD GYPSUM CO — Type PG-C. STANDARD GYPSUM L L C — Type PG-C. STANDARD GYPSUM CO — Type PG-C. STANDARD GYPSUM L L C — Type PG-C. STANDARD GYPSUM L L C — Type PG-C. STANDARD GYPSUM L L C — Type PG-C. STANDARD GYPSUM CO — Type PG-C. STANDARD GYPSUM L L C — Type PG-C. STANDARD GYPSUM L C — Type PG-C. STANDARD GYPSUM L L C — Type PG-C. STANDARD GYPSUM L C — TYPE PG-C. STANDARD ALTERNATE CEILING MEMBRANE - Not Shown. 9. Hanger Wire — For use with Item 10 -No. 12 SWG galv steel wire secured to steel joists spaced a max 48 in. OC.

10. Steel Framing Members — To be installed below the bottom flange of the steel beam.

a. Main runners — Installed perpendicular to Structural Steel Members, -Nom 12 ft long, 15/16 in. or 1-1/2 in. wide face, spaced 4 ft OC. Main runners hung a min of 2 in. from bottom chord of Structural Steel Members with 12 SWG galv steel wire. Wires located a max of 48 in. OC. b. Cross tees or channels - Nom 4 ft long, 15/16 in. or 1-1/2 in. wide face or cross channels, nom 4 ft long, 1-1/2 in. wide face, installed perpendicular to the main runners, spaced 16 in. OC. Additional cross tees or channels may be riveted or screw-attached to the wall angle or channel to facilitate the ceiling installation. c. Wall angles or channels — Used to support steel framing member ends and for screw-attachment of the gypsum wallboard -Painted or galvanized steel angles with 1 in. legs and 1-9/16 in. deep, attached to walls at perimeter of ceiling with fasteners 16 in. OC.

CGC INTERIORS, DIV OF CGC INC — Type DGL or RX. USG INTERIORS INC — Type DGL or RX. 11. Gypsum Board* — For use with Steel Framing Members (Item 10) - Two layers of nominal 1/2 in. thick by 48 in. wide boards. Inner layer installed with long dimension perpendicular to cross tees with 31-1/4 in. long Type S bugle-head steel screws spaced 8 in. OC along butted end joints and 12 in. OC in the field of the board. End joints of adjacent wallboard sheets shall be staggered not less than 4 ft OC. Outer layer attached to the cross tees through inner layer using 1-7/8 in. long Type S bugle-head steel screws on both sides of butted end joints of each layer to be offset a min of 18 in. from butted side joints of inner layer using 1-7/8 in. long Type S bugle-head steel screws spaced 8 in. OC at butted end joints of each layer shall be located 3/8 to 1/2 in. from end joints and 12 in. OC in the field. Butted end joints of each layer using 1-7/8 in. long Type S bugle-head steel screws spaced 8 in. OC at butted end joints and 12 in. from end joints of each layer shall be located 3/8 to 1/2 in. from end joints and 12 in.

CANADIAN GYPSUM COMPANY — Type C. UNITED STATES GYPSUM CO — Type C. USG MEXICO S A DE C V — Type C. *Bearing the UL Classification Mark

DESIGN NO. L524





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REVISIONS		
No.	Date	Description

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KEY PLAN

Shiva Southaven Inc.

Holiday Inn Express & Suites

Lot 16 (Rev Lot 3) Southcrest Pkwv. Southcrest Subdivision Southaven, MS 38671

Drawing Title UL Details

Construction Documents Project No. Sheet No 14-081 Prepared by Author T004 Checked by Checker Date Feb. 27, 2015

Review