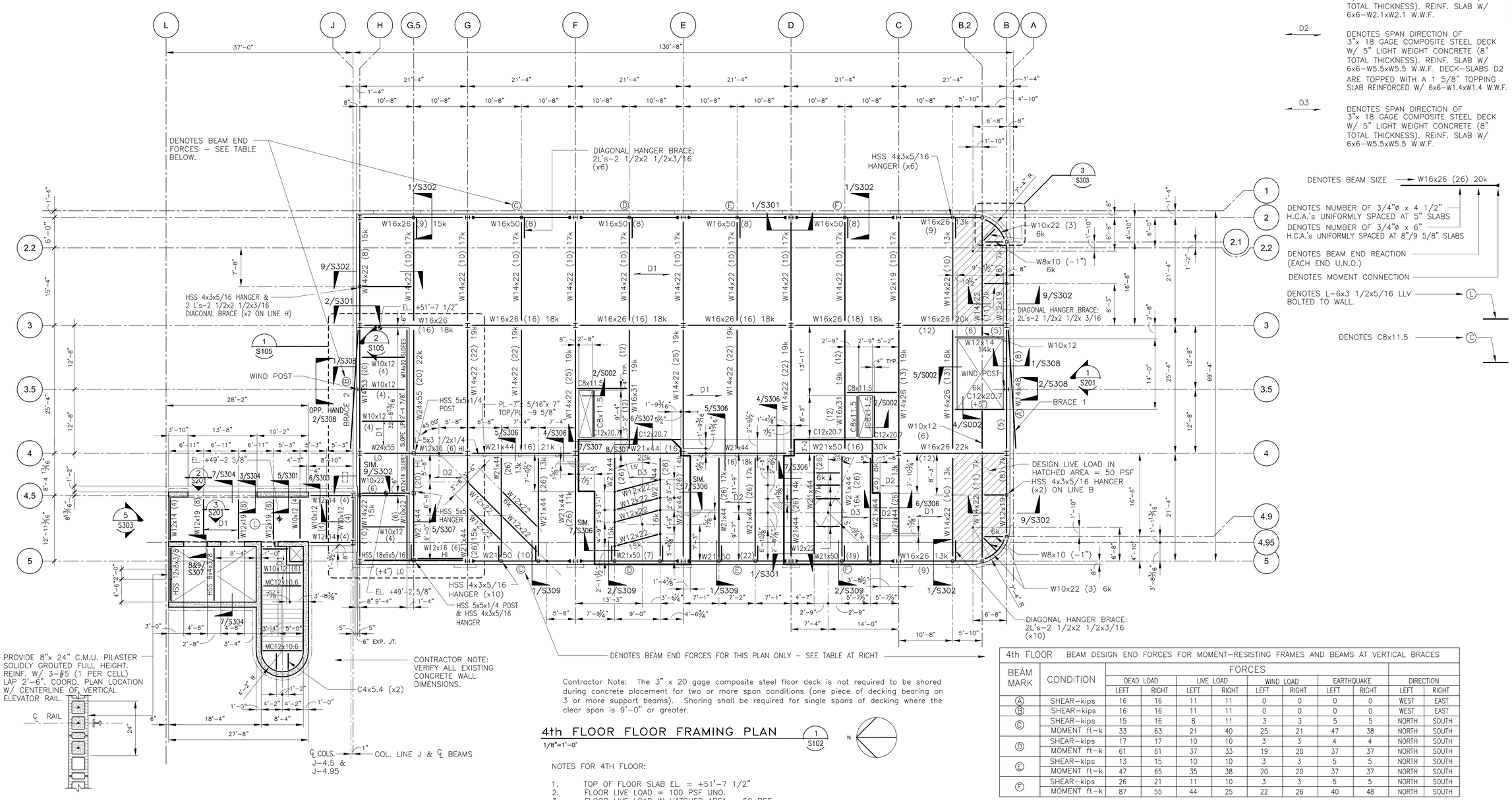

PLAN LEGEND

D1 — DENOTES SPAN DIRECTION OF 3"x 20 GAGE COMPOSITE STEEL DECK W/ 2" LIGHT WEIGHT CONCRETE (5" TOTAL THICKNESS). REINF. SLAB W/ 6x6–W2.1xW2.1 W.W.F.

D2 — DENOTES SPAN DIRECTION OF 3"x 18 GAGE COMPOSITE STEEL DECK W/ 5" LIGHT WEIGHT CONCRETE (8" TOTAL THICKNESS). REINF. SLAB W/ 6x6–W5.5xW5.5 W.W.F. DECK–SLABS D2 ARE TOPPED WITH A 1 5/8" TOPPING SLAB REINFORCED W/ 6x6–W1.4xW1.4 W.W.F.

D3 — DENOTES SPAN DIRECTION OF 3"x 18 GAGE COMPOSITE STEEL DECK W/ 5" LIGHT WEIGHT CONCRETE (8" TOTAL THICKNESS). REINF. SLAB W/ 6x6–W5.5xW5.5 W.W.F.

DENOTES BEAM SIZE → W16x26 (26) 20k
DENOTES NUMBER OF 3/4"ø x 4 1/2" H.C.A.'s UNIFORMLY SPACED AT 5" SLABS
DENOTES NUMBER OF 3/4"ø x 6" H.C.A.'s UNIFORMLY SPACED AT 8"/9 5/8" SLABS
DENOTES BEAM END REACTION (EACH END U.N.O.)
DENOTES MOMENT CONNECTION
DENOTES L–6x3 1/2x5/16 LLV BOLTED TO WALL. → ℄L
DENOTES C8x11.5 → ℄C

Contractor Note: The 3" x 20 gage composite steel floor deck is not required to be shored during concrete placement for two or more span conditions (one piece of decking bearing on 3 or more support beams). Shoring shall be required for single spans of decking where the clear span is 9'–0" or greater.

4th FLOOR FLOOR FRAMING PLAN

1/8"=1'–0" (1/S102)

NOTES FOR 4TH FLOOR:

1. TOP OF FLOOR SLAB EL. = +51'–7 1/2"
2. FLOOR LIVE LOAD = 100 PSF UNO.
3. FLOOR LIVE LOAD IN HATCHED AREA = 50 PSF WITH A 20 PSF PARTITION ALLOWANCE.
4. CONCRETE USED FOR FLOOR SLABS SHALL BE LIGHTWEIGHT WITH A MAXIMUM DENSITY OF 120 PCF.
5. THE BASIS OF DESIGN FOR IMAGING EQUIPMENT IS AS FOLLOWS:

   CT SCANNER – TOSHIBA AQUILON ONE VISION–BETWEEN GRID LINES 4 TO 5 & F & G. TOT. WT = 7,608 LBS
   MRI–TOSHIBA OVAL MRI–BETWEEN GRID LINES 4 TO 5 & E TO F. TOT. WT = 11,888 LBS
   MRI– TOSHIBA OASIS MRI–BETWEEN GRID LINES 4 TO 5 & C TO D. TOT. WT = 39,838 LBS

   SCANNING EQUIPMENT THAT IS HEAVIER AND/OR EQUIPMENT HAVING DIFFERENT DIMENSIONS FOR SUPPORT POINTS WILL REQUIRE REDESIGN OF THE FLOOR BEAMS WHERE THE EQUIPMENT IS LOCATED.

6. CONTRACTOR NOTE: WHERE HEADED BEAM SHEAR STUDS INTERFERE OR ARE IN CONFLICT WITH THE WELDED WIRE REINFORCEMENT IT IS ACCEPTABLE TO CUT THE WIRE THAT IS IN CONFLICT. IF THE CUT WIRE IS PARALLEL WITH COMPOSITE DECK ADD A #2 x 24" BAR BESIDE THE CUT WELDED WIRE AND CENTER THE #2 BAR ON THE LOCATION WHERE THE WELDED WIRE WAS CUT.

4th FLOOR — BEAM DESIGN END FORCES FOR MOMENT–RESISTING FRAMES AND BEAMS AT VERTICAL BRACES

BEAM MARK	CONDITION	FORCES								DIRECTION	
		DEAD LOAD		LIVE LOAD		WIND LOAD		EARTHQUAKE			
		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
Ⓐ	SHEAR–kips	16	16	11	11	0	0	0	0	WEST	EAST
Ⓑ	SHEAR–kips	16	16	11	11	0	0	0	0	WEST	EAST
Ⓒ	SHEAR–kips	15	16	8	11	3	3	5	5	NORTH	SOUTH
	MOMENT ft–k	33	63	21	40	25	21	47	38	NORTH	SOUTH
Ⓓ	SHEAR–kips	17	17	10	10	3	3	4	4	NORTH	SOUTH
	MOMENT ft–k	61	61	37	33	19	20	37	37	NORTH	SOUTH
Ⓔ	SHEAR–kips	13	15	10	10	3	3	5	5	NORTH	SOUTH
	MOMENT ft–k	47	65	35	38	20	20	37	37	NORTH	SOUTH
Ⓕ	SHEAR–kips	26	21	11	10	3	3	5	5	NORTH	SOUTH
	MOMENT ft–k	87	55	44	25	22	26	40	48	NORTH	SOUTH

NOTE:
BEAM END FORCES SHOWN HAVE NOT BEEN COMBINED AND HAVE NOT BEEN FACTORED. WIND & SEISMIC FORCES HAVE BEEN DETERMINED FROM ASCE 7–05. IF SEISMIC FORCES ARE COMBINED FOR ALLOWABLE STRESS DESIGN IT SHALL BE MULTIPLIED BY 0.7.

FINAL SUBMITTAL

Revisions: | Date

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Drawing Title: 4th FLOOR FRAMING PLAN
Approved: Project Director

Project Title: EXPAND RADIOLOGY AND SPS OVERTON BROOKS VAMC
Location: SHREVEPORT, LA
Date: 3-13-2015 | Checked: BP | Drawn: AH

Project Number: 667-083
Building Number: 1
Drawing Number: S102
Dwg. of XX

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT
VA | U.S. Department of Veterans Affairs

VA FORM 08–6231A, MAR 1984

Drawing File: W:\2 Clients–Projects\2–Toland–Mizell–Molnar\2014–012 VA SHREVEPORT–EXPAND RADIOLOGY\DRAWINGS\STRUC\S102 4th FLOOR FRAMING PLAN.dwg
Plotted by: ashby
Plotted Date: Mar 11, 2015 – 7:10pm

one–eighth inch = one foot | one–quarter inch = one foot | three–eighths inch = one foot | one–half inch = one foot | one and one–half inches = one foot | three inches = one foot