

FIELD REPORT #4

**SRG Engineering, Inc.
P. O. Box 925
Gray, ME 04039-0925
Tel:(207)-657-7323 Fax:(207)-657-7342**

**Project No.:07-003 Date: March 9, 2007
Project Name: Mercy Hospital
Project Location: Portland, Maine
Weather Conditions: Sunny, upper 20's
Contact Person(s): Steven Grant-SRG Eng.
 James Lanza-Gilbane Co.
 Butch –American Steel**

Discussion/Observations: Level 1

**Copies To: Shawn Welty-KLMK
 Roger Domingo-SWC
 James Lanza-Gilbane
 Paul Stevens-SMRT
 Janusz Wszola (EOR)-SMRT
 Cathy Streifel-SMRT**

SRG Observations: (Continued)

10. The following Girders were observed to have most (if not all) the original studs cut/grinded off and now waiting to be re-welded in order to adhere to EOR required minimum transverse and longitudinal stud spacing requirements: (See SRG photo 13, 26 and 28 of 37) **ACTION REQUIRED: Provide required stud quantity with correct spacing.**
- A. Grids B, C, D, and G: Between Lines 1 and 2
 - B. Grid G: Between Lines 2 and 3.
11. W16x31 joist beams (3 locations) spanning from Grids C to D located between Grids 1 and 2: Presently, each beam has a total of 36 shear studs, where minimum required is 34. However, each of these three beams have 4 sets of "double studs" located at the South end. **ACTION REQUIRED: EOR at SMRT to verify if these beams are acceptable as-is, or if additional studs need to be added to the North end so as to match the South end. EOR to notify G.C. and SRG with answer before Tuesday, March 13, 2007 noontime in order to allow sufficient time to field correct if necessary.**
12. Shear studs provided are 3/4" diameter x 5" total length as specified by EOR. (See SRG Photo 28 of 37)
13. No wire mesh is in position between grid 1 and 3.
14. Planned concrete placement for this section of Level 1 floor between grids 1 and 3 to take place 3-15-07.
15. Shear studs appear to be about 95% in place between grids 1 and 3.
16. I took my 5 lb hammer and checked the weld for about 1/4 of the studs, and 3 "failed" the bend test. I then bend tested 10 studs to each side of the failed stud and all were fine. The 3 studs that did fail, were between grids 1 and 3 with each on a different beam. These failed studs did not need to be replaced since there were more studs than required at each of these 3 beams.
17. Contractor to field verify if shear studs are located in the lower ribs of metal deck positioned in the stiffening rib toward the nearest support, as shown on note 7 of "Shear Stud Placement Requirements" as shown on sheet SG001. (See SRG Photo 29 of 37) **ACTION REQUIRED: Contractor to add at least one new stud for every 3 that are not correctly placed. SRG to check for this condition upon return to the site this Tuesday March 13th.**
18. At Grid 3 from line F to G: W18x35 has a few pair of studs at each the North and South ends with transverse spacing closer than the 3" required minimum. (See SRG photo's 9 and 10 of 37) **ACTION REQUIRED: Contractor to correct these incorrect stud spacing locations prior to Tuesday March 13th concrete placement. Contractor must also field check all other beams at this grid line to be sure stud spacing is correct.**
19. Female end (half couplers) are present at bent plate along Grid H to receive threaded #4 rebar. (See SRG Photos 34 and 35 of 37)
20. Planned concrete placement for section of Level 1 floor between grids 1 and 3 to take place 3-15-07.
21. Planned concrete placement for section of Level 1 floor between grids 3 and 5 to take place 3-13-07.

Diagrams: (Please see attached SRG Photos 1 through 37.)

C: File

Signed: _____