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| <b>REQUEST FOR INFORMATION</b> | <b>DATE:</b> August 25, 2016 | <b>NO.:</b> RFI-255 |
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To: Cannon Design

Attn: Kelvin Patel

From: Paric Corporation

Requested By: Devin Gates

Project Name: 15051-Webster University Interdisciplinary Science Building

Project No.: 15051

Subject: Connection detail for grade beam to C.3 line transition

Response Required By: September 01, 2016

Drawing / Spec Reference:

**Information Requested:**

Please provide a connection detail where the grade beam from C.3 line transitions to column line 5 using the radius. Is it acceptable to drill and epoxy dowels for the grade beam into Level 0 foundation wall on column line 5 wall using the Hilti-HY 200A epoxy? If acceptable, please provide embedment requirement.

**Response:**

WALL & GRADE BEAM CONSTRUCTION JOINTS ARE LOCATED ON THE EAST SIDE OF THE PILASTER/PIER CAP AT C.3-3. PIER CAP AT C.3-4 IS NOT POURED AT THIS TIME. THE AREA BETWEEN GRIDS 3 & 5 IS BEING USED AS A ACCESS RAMP FOR THE SITE. GRADE BEAMS SHALL BE PLACED ON COMPACTED BEARING MATERIALS THAT MEET A BEARING CAPACITY OF 3KSF TO BE VERIFIED BY THE GEOTECHNICAL ENGINEER. THE BEARING MATERIAL ALONG GRID 5 WALL FOR A DISTANCE OF 8 FEET WEST FROM THE WALL SHALL NOT BE COMPACTED FOR BEARING. BACKFILL IN THIS AREA SHALL FOLLOW THE DRAIN PIPE INSTALLATION DETAIL IN THE PLUMBING DRAWINGS AND AS DEFINED IN THE GEOTECHNICAL REPORT. REINFORCING AT GRID 3 SHOULD HAVE ALL HORIZONTAL BARS FROM GRADE BEAM AND WALL EXTENDED FOR A CLASS "B" SPLICE (VERIFY). GRADE BEAM REINF AT THE INTERSECTING GRID 5 WALL SHALL HAVE REINF SET INTO THE WALL WITH HILTI HY-200 ADHESIVE SYSTEM PER ATTACHED SKETCH. CONCRETE POUR OF WALL SHALL BE MONOLITHIC FROM GRID 3 TO GRID E.

**ARCHITECT'S RESPONSE:**

This information is provided as an interpretation of the Contract Documents for implementation. It is not an authorization for change to the Contract Sum or Contract Time. If this information results in a claim for a change to the Contract, the Contractor shall notify the [Construction Manager]/[Architect] of a change through the change process.

Answered By: JILL WALKER / DMA

Date: 9/14/2016

- LEVEL 01 FRAMING PLAN NOTES:**
- FLOOR CONSTRUCTION: 4" 1/2" NORMAL WEIGHT CONCRETE SLAB REINFORCED WITH 6#6, W2.9xW2.9 W.F. ON 2'x18 GA. GALVANIZED COMPOSITE METAL DECK BY VULCRAFT OR ENGINEER APPROVED EQUAL WITH THE FOLLOWING MINIMUM PROPERTIES:  $f_y = 0.558 \text{ ksi}$ ,  $S_y = 0.495 \text{ in}^3$ ,  $F_y = 60 \text{ ksi}$ ,  $S_y = 0.694 \text{ in}^3$ . LOCATE W.F.'S 1" CLEAR FROM TOP OF CONCRETE. WELD COMPOSITE METAL DECK TO ALL INTERIOR SUPPORTING STEEL. EDGE RIBS OF PANELS AT EACH SUPPORT AND ALONG ALL SUPPORTING PERIMETER EDGE AND SLAB EDGE STEEL WITH 5/8" DIAMETER BUTT WELDS @ 12" O.C. MAXIMUM. PROVIDE #10 TEK-SCREW SIDE LAP CONNECTIONS AT 36" O.C. MAXIMUM BETWEEN SUPPORTS. (TOTAL SLAB THICKNESS = 6 1/2").
  - FOR GENERAL NOTES AND TYPICAL DETAILS, SEE SHEETS S0001 THRU S0003.
  - FOR COLUMN SCHEDULE, SEE SHEETS S0500 THRU S0502.
  - COORDINATE ALL FLOOR OPENINGS WITH MECHANICAL DRAWINGS.
  - FINISHED FLOOR ELEVATION = 86'-0".
  - TOP OF STRUCTURAL STEEL ELEVATION = 85'-5 1/2", U.N.O.
  - TOP OF STRUCTURAL STEEL ELEVATION = BOTTOM OF METAL DECK ELEVATION, UNLESS NOTED THUS (XX") ON PLAN REFERENCED FROM BOTTOM OF METAL DECK ELEVATION.
  - FOR COMPOSITE BEAM NOTES AND TYPICAL COMPOSITE BEAM DETAILS, SEE SHEETS S0002 THRU S0003.

**DESIGN FLOOR LOADS:**

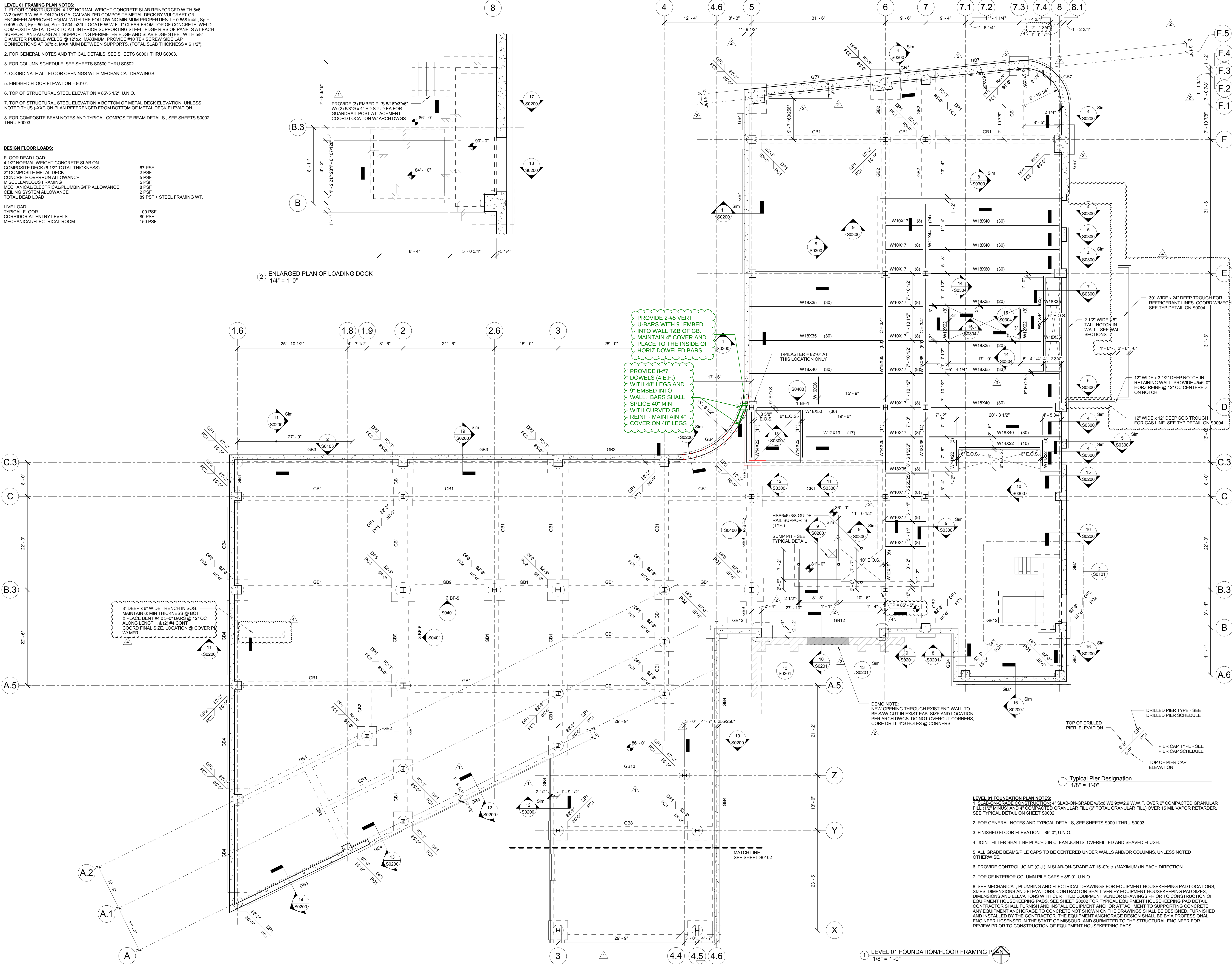
FLOOR DEAD LOAD:  
4 1/2" NORMAL WEIGHT CONCRETE SLAB ON  
COMPOSITE DECK (6 1/2" TOTAL THICKNESS)  
2" COMPOSITE METAL DECK  
CONCRETE OVERRUN ALLOWANCE  
MISCELLANEOUS FRAMING  
MECHANICAL/ELECTRICAL/PLUMBING/FP ALLOWANCE  
CEILING SYSTEM ALLOWANCE  
TOTAL DEAD LOAD

67 PSF  
2 PSF  
5 PSF  
5 PSF  
8 PSF  
2 PSF  
89 PSF + STEEL FRAMING WT.

LIVE LOAD:  
TYPICAL FLOOR  
CORRIDOR AT ENTRY LEVELS  
MECHANICAL/ELECTRICAL ROOM

100 PSF  
80 PSF  
150 PSF

2 ENLARGED PLAN OF LOADING DOCK  
1/4" = 1'-0"



**LEVEL 01 FOUNDATION PLAN NOTES:**

- SLAB-ON-GRADE CONSTRUCTION: 4" SLAB-ON-GRADE w/6#6 W2.9xW2.9 W.F. OVER 2" COMPACTED GRANULAR FILL (1/2" MINUS) AND 4" COMPACTED GRANULAR FILL (6" TOTAL GRANULAR FILL) OVER 15 MIL VAPOR RETARDER. SEE TYPICAL DETAIL ON SHEET S0002.
- FOR GENERAL NOTES AND TYPICAL DETAILS, SEE SHEETS S0001 THRU S0003.
- FINISHED FLOOR ELEVATION = 86'-0", U.N.O.
- JOINT FILLER SHALL BE PLACED IN CLEAN JOINTS, OVERFILLED AND SHAVED FLUSH.
- ALL GRADE BEAMS/PIER CAPS TO BE CENTERED UNDER WALLS AND/OR COLUMNS, UNLESS NOTED OTHERWISE.
- PROVIDE CONTROL JOINT (C.J.) IN SLAB-ON-GRADE AT 15'-0" O.C. (MAXIMUM) IN EACH DIRECTION.
- TOP OF INTERIOR COLUMN PIER CAPS = 85'-0", U.N.O.
- SEE MECHANICAL PLUMBING AND ELECTRICAL DRAWINGS FOR EQUIPMENT HOUSEKEEPING PAD LOCATIONS, SIZES, DIMENSIONS AND ELEVATIONS. CONTRACTOR SHALL VERIFY EQUIPMENT HOUSEKEEPING PAD SIZES, DIMENSIONS AND ELEVATIONS WITH CERTIFIED EQUIPMENT VENDOR DRAWINGS PRIOR TO CONSTRUCTION OF EQUIPMENT HOUSEKEEPING PADS. SEE SHEET S0002 FOR TYPICAL EQUIPMENT HOUSEKEEPING PAD DETAIL. CONTRACTOR SHALL FURNISH AND INSTALL EQUIPMENT ANCHOR ATTACHMENT TO SUPPORTING CONCRETE. ANY EQUIPMENT ANCHORAGE TO CONCRETE NOT SHOWN ON THE DRAWINGS SHALL BE DESIGNED, FURNISHED AND INSTALLED BY THE CONTRACTOR. THE EQUIPMENT ANCHORAGE DESIGN SHALL BE BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF MISSOURI AND SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION OF EQUIPMENT HOUSEKEEPING PADS.

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CONFORMED SET 01 JUL 2016

|     |                               |             |
|-----|-------------------------------|-------------|
| 4   | ADDENDUM 1-11                 | 13 MAY 2016 |
| 3   | ADDENDUM 1-8                  | 12 APR 2016 |
| 2   | ADDENDUM 1-7                  | 16 MAR 2016 |
| 1   | ADDENDUM 1-1                  | 29 JAN 2016 |
| -   | ISSUED FOR CONSTRUCTION (BPI) | 15 JAN 2016 |
| No. | Description                   | Date        |

Drawing Title:

**LEVEL 01**  
**FOUNDATION/FLOOR**  
**FRAMING PLAN**

Project No.: 04561.01 Checked by:

**S0101**