



PARIC CORPORATION
77 Westport Plaza Suite 250
St. Louis, MO 63146
TEL: 636-561-9500
FAX: 636-561-9501

REQUEST FOR INFORMATION	DATE: March 10, 2016	NO.: RFI-011
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To: Cannon Design

Attn: Kelvin Patel

From: Paric Corporation

Requested By: Devin Gates

Project Name: Webster University Interdisciplinary Science Building

Project No.: 15051

Subject: Installing blockout for AHU install

Response Required By: March 17, 2016

Drawing / Spec Reference:

Information Requested:

Please advise if a temporary blockout can be installed in the 1st floor slab in order to provide access to install AHU-1 and 2 once the building is enclosed. The AHU's would enter thru double door # x178.2. See attached Trane information sheet indicating unit S7 is 54 7/8" x 140 1/2" x 92 1/2" tall x 3823 lbs. The proposed blockout would be 7'4 1/2" x 16'. Once the units are lowered into the basement the temporary blockout would be decked across with metal deck and concrete placed.

1. Please verify if the unit can be loaded thru the double door and rolled across the 1st floor slab without overloading the slab.
2. Please verify the unit can be hung from the structural steel underneath the 2nd floor slab and lowered down into Level 0.
3. Please verify if a gantry crane can be set on the 1st floor on either side of the floor blockout to lower the unit into the opening. This would apply a point load to the 1st floor. Gantry crane example:
http://www.globalindustrial.com/p/material-handling/hoists-cranes/cranes-gantry/gorbel-steel-gantry-crane-25-ft-span-and-17-ft-20-ft-adjustable-height-10000-lb-capacity?infoParam.campaignId=T9F&gclid=CjwKEAiA04S3BRCYteOr6b-roSUSJABE1-6BuuJzODfznvzBS3PcKuUzK0ALDMkpJ7gdm3BoCOTHqBoC2nzw_wcB
4. Please verify if any additional reinforcing is required at the perimeter of the blockout or infill hole.

Please see attached drawings and AHU product data.

Response:

Answered By: _____

Date: _____



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.

The design direction thus far has been that the AHU's would be built on site in the basement with equipment being delivered to basement from the elevator. An alternative to this method has been proposed where a gantry crane will be used to drop prefabricated sections through a temporary opening in the floor. The proposed alternative approach will require redesign, loading checks, additional details, and drawing modifications. In short, this is a viable option but additional services are required for structural. Design verifications will be necessary for the delivery path and gantry crane to hoist the equipment down. There will be drawing modifications and some additional steel & reinforcing required. Additional information and coordination will be necessary with WTA and the equipment installation contractor in order to verify and modify the current system.

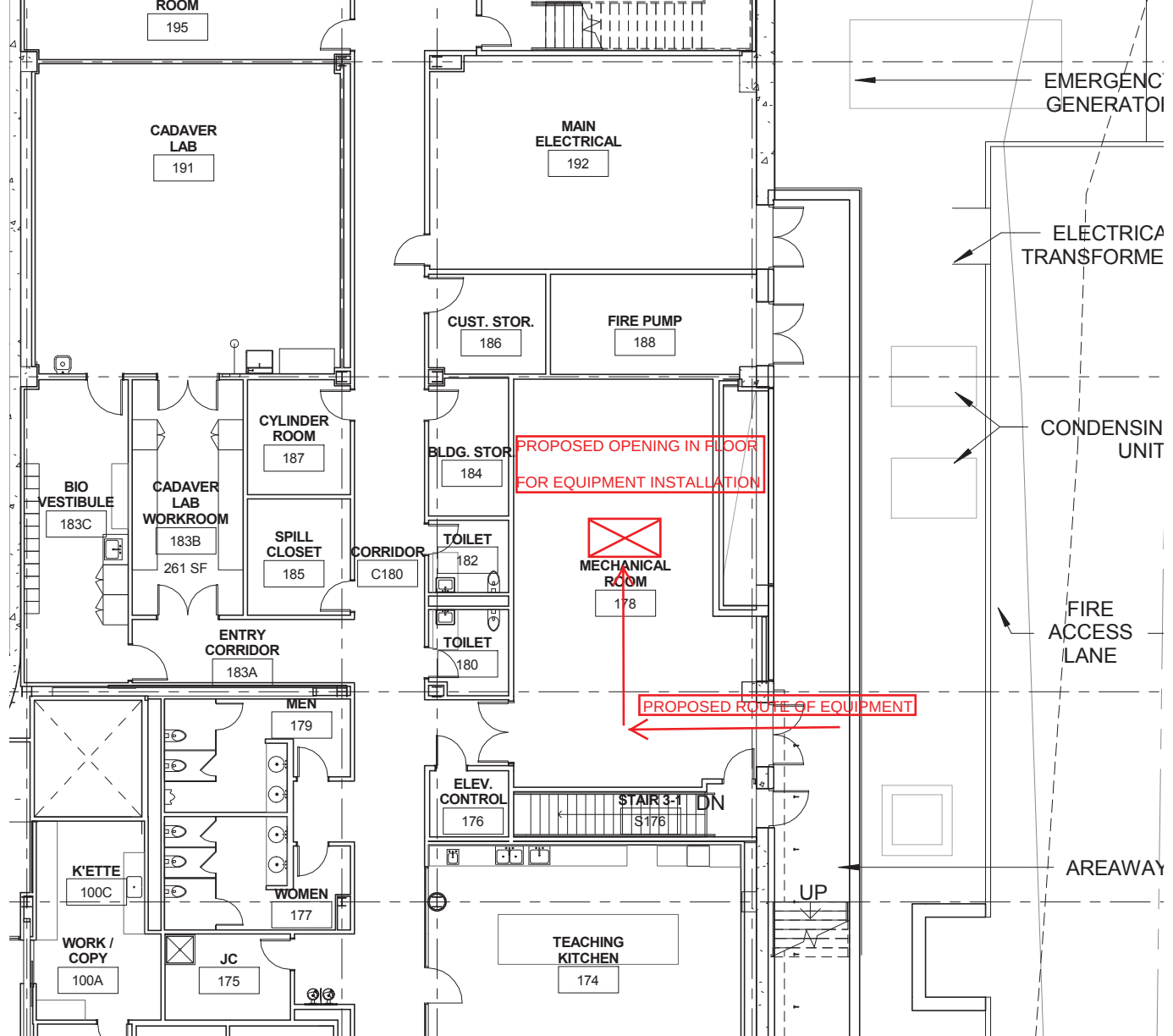
1. Loading checks will need to be performed, however, I anticipate with the 4k load, minimal changes to the design will be required for the access path.
2. Loading due to the gantry crane hoisting procedure will need to be performed. Based on the 4k equipment load and the current design live load on L1, it is anticipated that few revisions will be required.
4. There will be extra requirements at the perimeter of the opening. DBS reinforcing will be required along the perimeter. Additional reinforcing for slab continuity will also be required.

These additional services could be provided for a estimated fee of \$1500 and issued as an addendum to the bid documents.

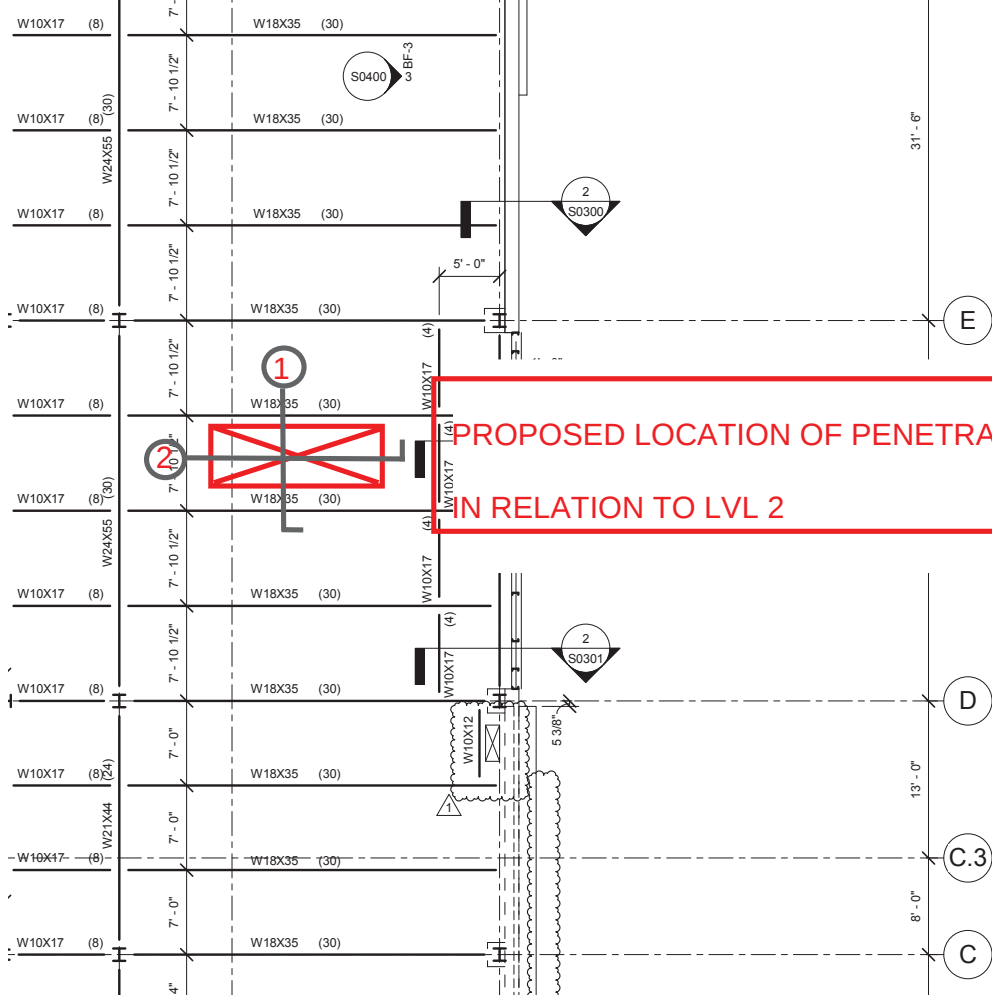
Jill Walker / DMA
3/22/2016

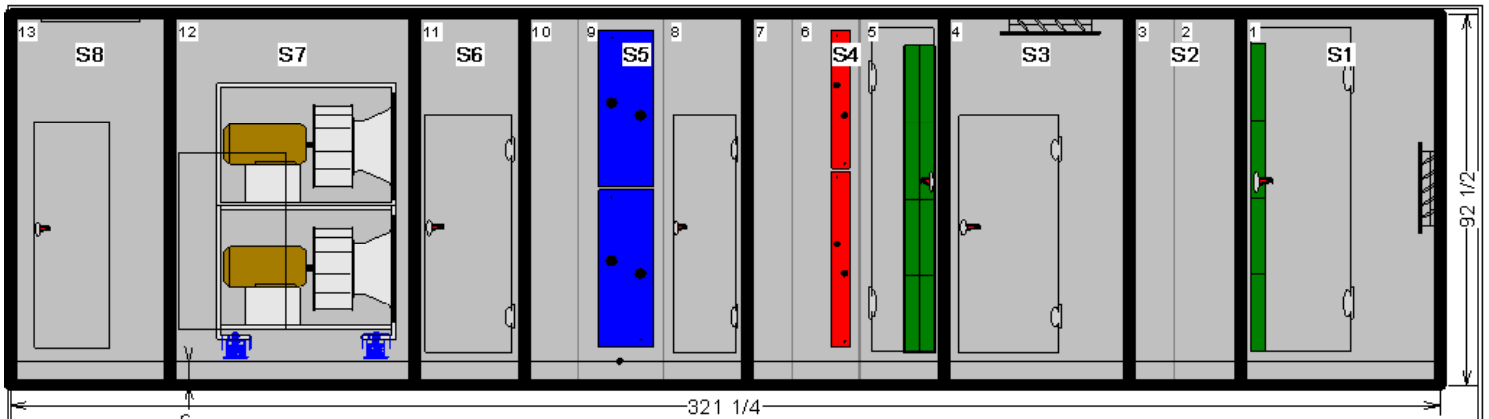
Answered By: _____

Date: _____



Wel
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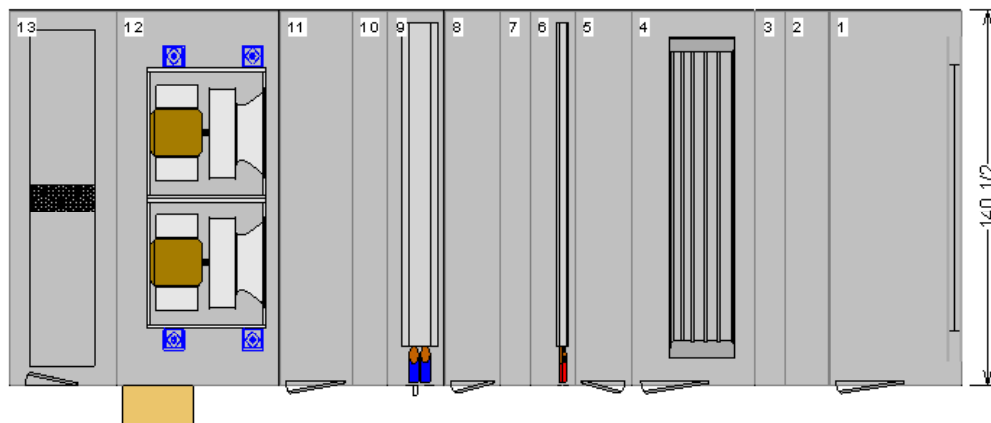




Overall Elevation View: Right - Shipping splits indicated by bold outline. - Measurements in inches

For maneuvering purposes, include 1.125 inches to each ship split length for overlapping panel flange. Flange will not add to overall installed unit length sh

Pos #	Module	Length	Weight	Installed Unit Weight 1332
1	Air mixing section	44 3/4	1335.00	
2	Access section	15 1/8	430.00	
3	Custom length section	10 1/8	229.61	
4	Air mixing section	41 5/8	1078.00	
5	Filter section	19 1/8	729.00	
6	Coil section	15	943.40	
7	Custom length section	10 1/8	229.61	
8	Access section	19 1/8	476.00	
9	Coil section	19	2132.73	
10	Custom length section	12 1/8	275.53	
11	Access section	24 5/8	574.00	
12	Fan section	54 7/8	3823.00	
13	Discharge plenum	36 1/8	1065.92	



Basic Overall Plan View: Top - Measurements in inches

OPENING AND DIMENSIONS MAY VARY FROM CONTRACT DOCUMENTS / RETURN OF APPROVED DRAWINGS CONSTITUTES ACCEPTANCE OF THESE VARIANCES / NOT TO SCALE

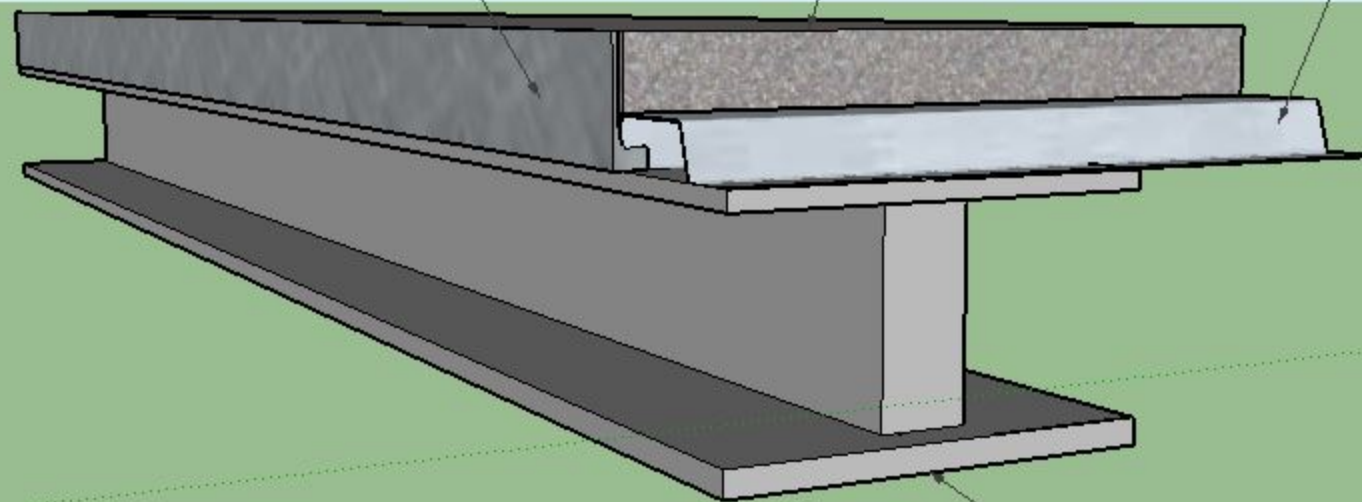
Unit size: 66	Job Name: Webster University Interdisciplinary Bldg - TAO	Unit Casing: 2in Double Wall Foam
Product group: Indoor unit	Actual airflow: 32000 cfm	Proposal Number:
Integral base frame: 6in. integral base frame	Sales Office: St Louis Main Office	Tags: AHU-1
Paint: Unpainted/field painted outdoor		Rigging/Installed Weight: 12805.0 lb / 13321.8 lb



3/8" BENT PLATE

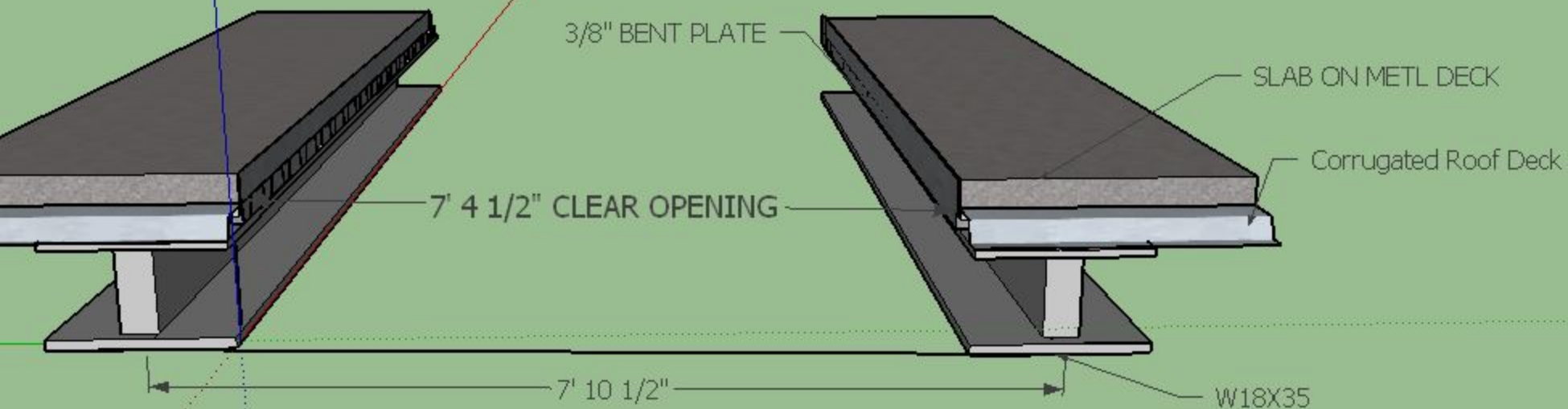
SLAB ON METL DECK

Corrugated Roof Deck

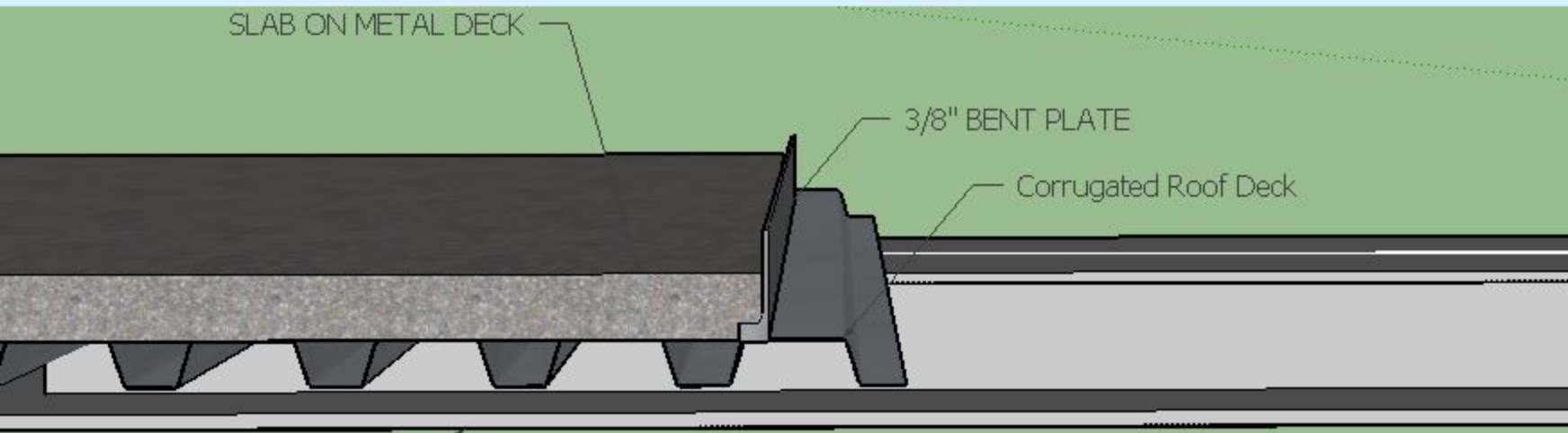


W18X35

DETAILS TYPICAL TO BOTH SIDES OF OPENING

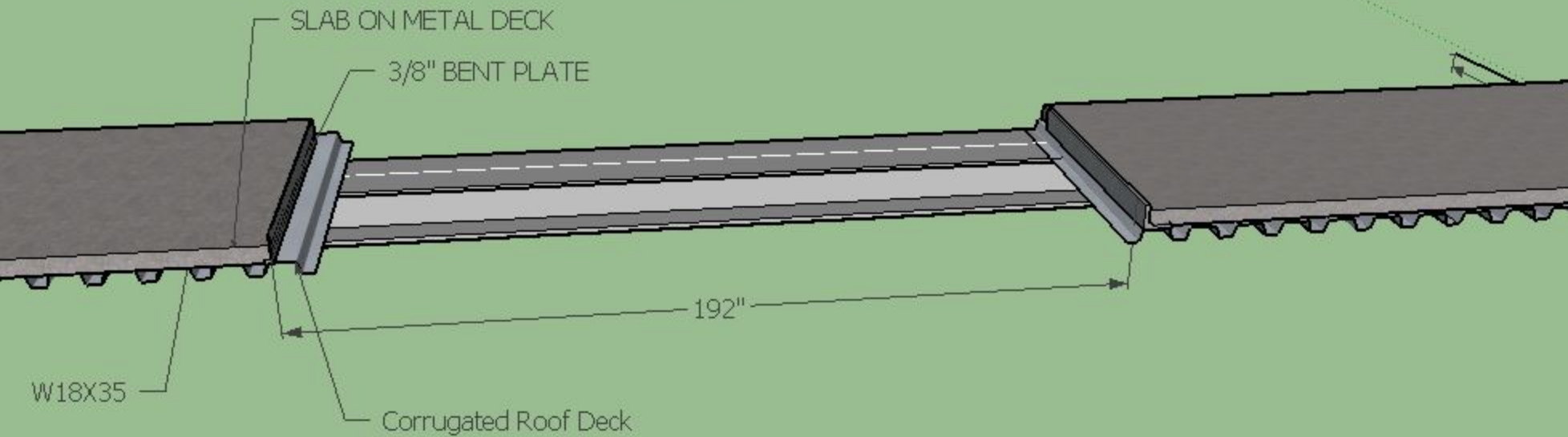


SECTION 1



SECTION 2

DETAILS TYPICAL TO BOTH SIDES OF OPENING



SECTION 2