BACKGROUND
LEED/SUSTAINABLE CONSIDERATIONS FOR THE PROJECT

- Protect or restore wildlife
- Promotion of alternative transportation
- Protect and restore habitat
- Mitigate heat island effect
- Water efficient landscaping
- Water use reduction
- Optimize energy performance
- Green power
- Construction waste management
- Use of recycled content
- Use of rapidly renewable materials
- Indoor chemical and pollutant source control
- Use of regional materials
- Thermal comfort design
- Optimize daylight & views
- Storage & collection of recyclables
• First three floors are shear walls
• Fourth Floor has a curtain window
• Both wings have a vertical core, with stairs
• Spandrel (edge) beams
• W21X50, W14X22, W12X19 beams
• 2 rows of I-beams
• Steel columns with cross bracing and a brick façade
THE ROOF

WALL SECTION AT ROOF
MULTIFRAME WITH LOADS
FRONT VIEW OF LOADS
FRONT VIEW NO LOADS

Sections
- HSS4x4x5/16
- W21x50
- L6x6x1
- L9x4x5/8
SHEAR WALLS
SHEAR WALLS

The tilt-wall panels act as shear walls surrounding the perimeter of the building.

Lateral load is accepted, transferred down the wall and into the foundation, and transmitted into the steel structure.

THE DIAPHRAM

Frame action of the “guts” of the building help maintain rigidity throughout the structure.

All of the lateral bracing (cross bracing and chevron bracing) is located in the center of each wing and in the core.
4 BEAM AT BRACE

3/4" = 1'-0"
(3) 3/8" STIFFENER
PLATES EA SIDE OF HED

PL 1/4" AS REQ'D
PL 3/4"x AS REQ'D

GRID

AS
REQ'D

BOOTH
SIDES

TYP

5/16

5/16

5/16

5/16

5/16

5/16

5/16

5/16

1 1/2" NON-SHRINK CEMENT, PLACE IMMEDIATELY AFTER COLUMN IS PLUMB

FIN. PLANE

EXTEND PIER REINF
FULL HEIGHT

BASE PL HLT SCHED

CONE PIER HLF PLAN

(6) #8 DOWELS TIED TO
PIER CAGE WITH #3 TIES
AT 4" OC TO ENCLOSE
ALL ANCHOR BOLTS
HOOK @ TOP, LAY
7"-0" WITH PIER STEEL

PIER CAP AT BRACE

3/4" - HLF SCALE
7 BEAM AT BRACE

3/4" = 1'-0"
GRID

(3) 3/8" STIFFENER PLATES EA SIDE OF WEB

PL 3/4"x AS REQ'D.

PL 1"x AS REQ'D.

L5x3 1/2x1/2 EA SIDE WITH A325 BOLTS

WP - CENTROID OF MEMBERS

2 1/2" 5/16 5/16 5/16

FULL LENGTH TYP

BEAM AT BRACE

3/4" = 1'-0"
• Expansive clay
  • differential movement
• Benefits of pier construction
  • anchors for concrete slab - prevent rise and fall of soil
  • deeper soil - less moisture
Cigna Point’s soil support system: the subgrade will consist of engineered select fill material and will be proof-rolled to help compact subgrade prior to the concrete placement. The vapor retarder will be located directly below the concrete slab.