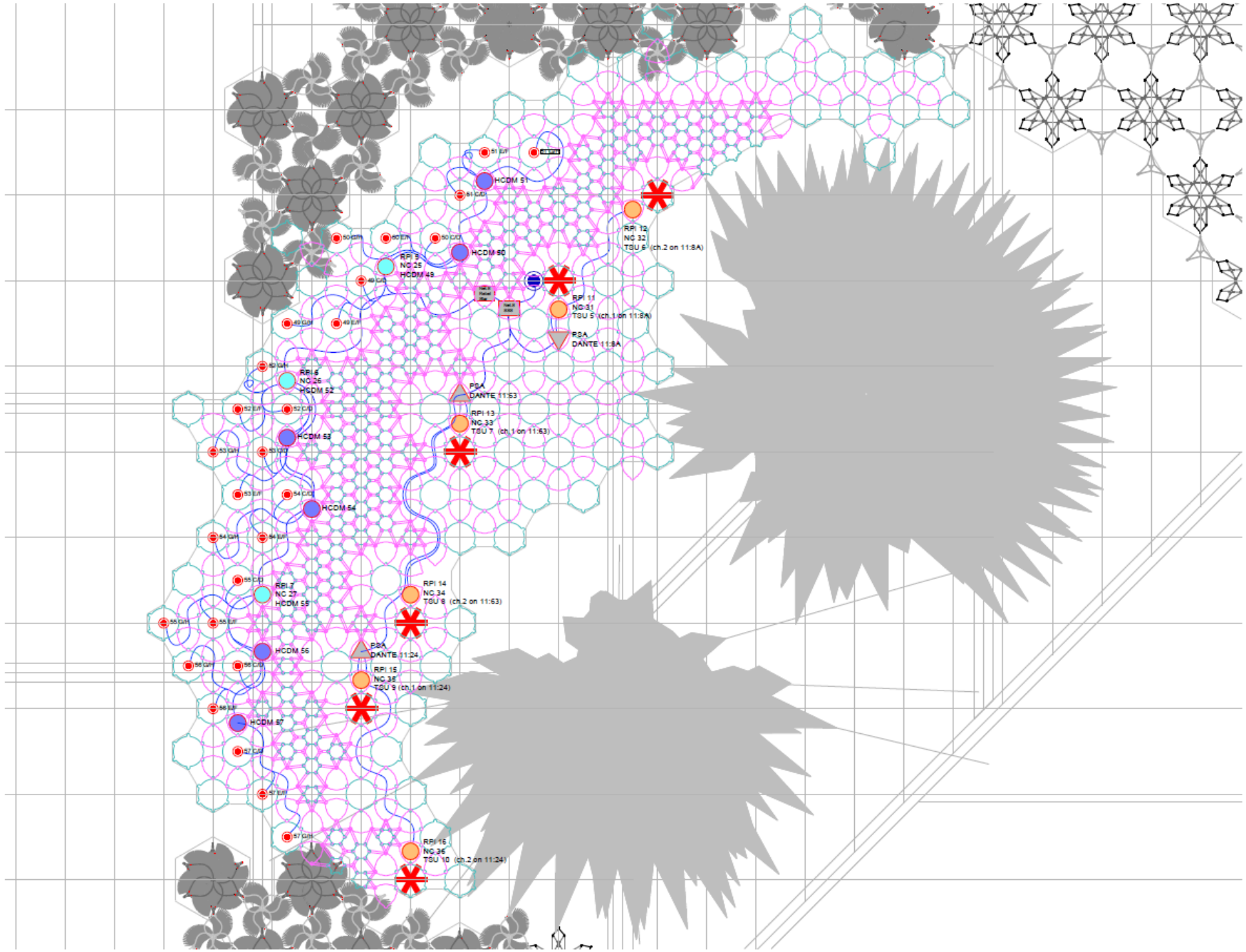
Katy Borner: Round-Table Conversation on Innovative Thinking.
Indiana University Jacobs School of Music September 8, 2018



PBAI / LASG

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By	Date	Status	Rev By	Rev Date
JP	18/04/02	As-Built	TB	18/06/13

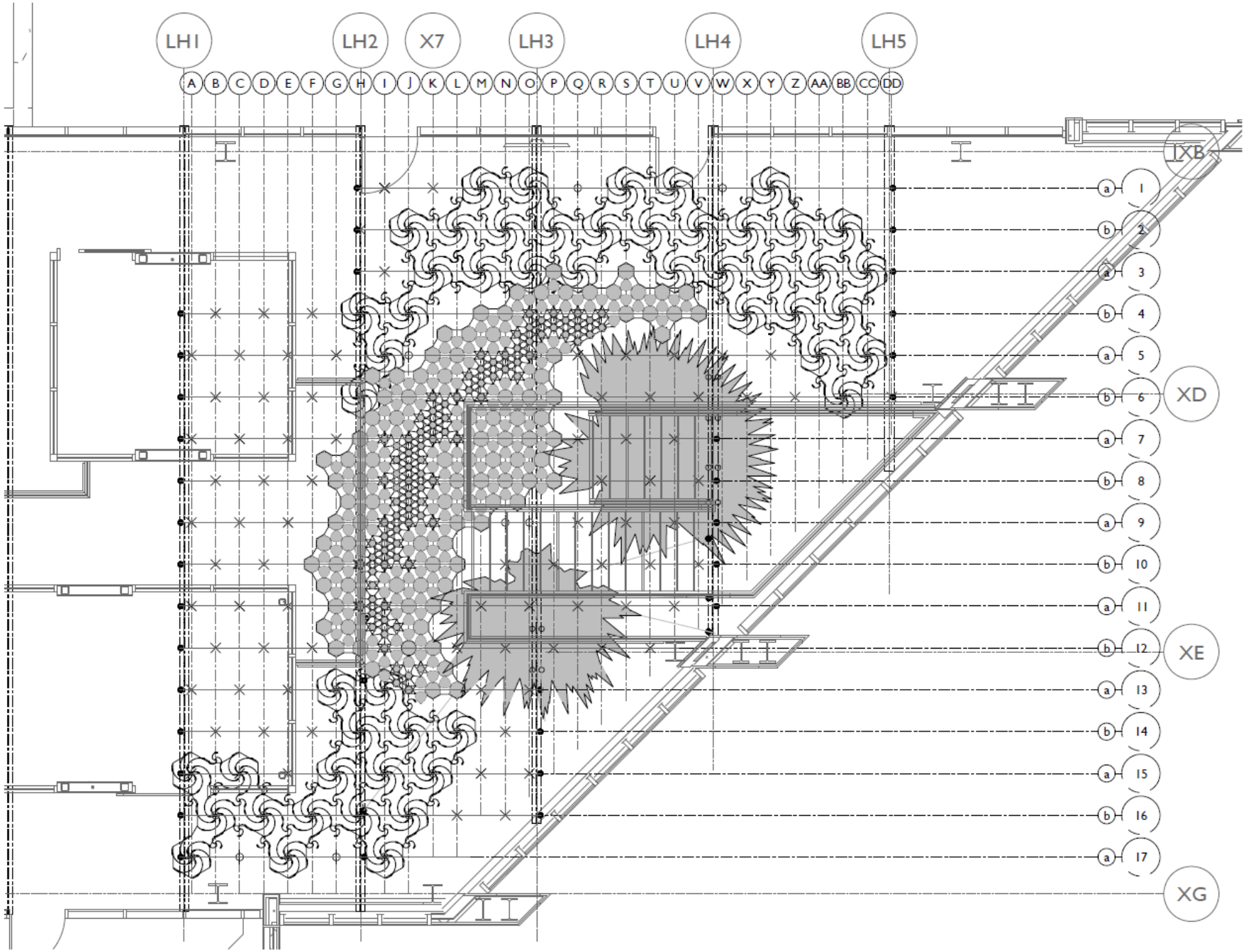
Notes

Phase
Maintenance Manual

Project
17540 Luddy Hall - Amatria

Drawing Title
Device Locator - Sparfield Canopy

Sheet
M102



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By	Date	Status	Rev By	Rev Date
TB	18/02/09	DRAFT	MF	18/02/09
TB	18/02/13	DRAFT	VF	18/02/13
TB	18/02/16	DRAFT	PB	18/02/16

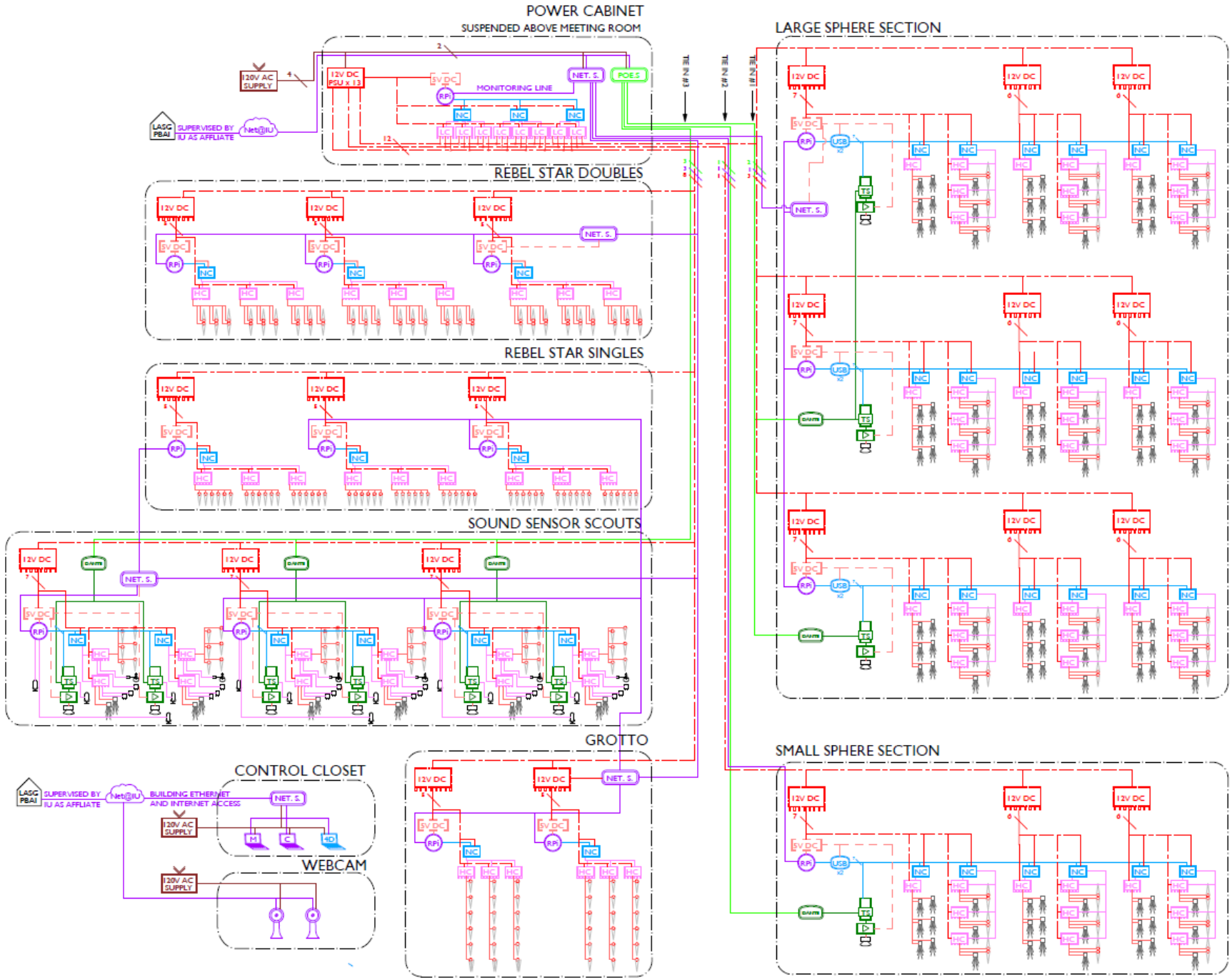
Notes

Phase
Schematic Design

Project
17540 Luddy Hall

Drawing Title
Sculpture Master Plan

Sheet
A102



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By	Date	Status	Rev By	Rev Date
MH	01/03/08	Draft		

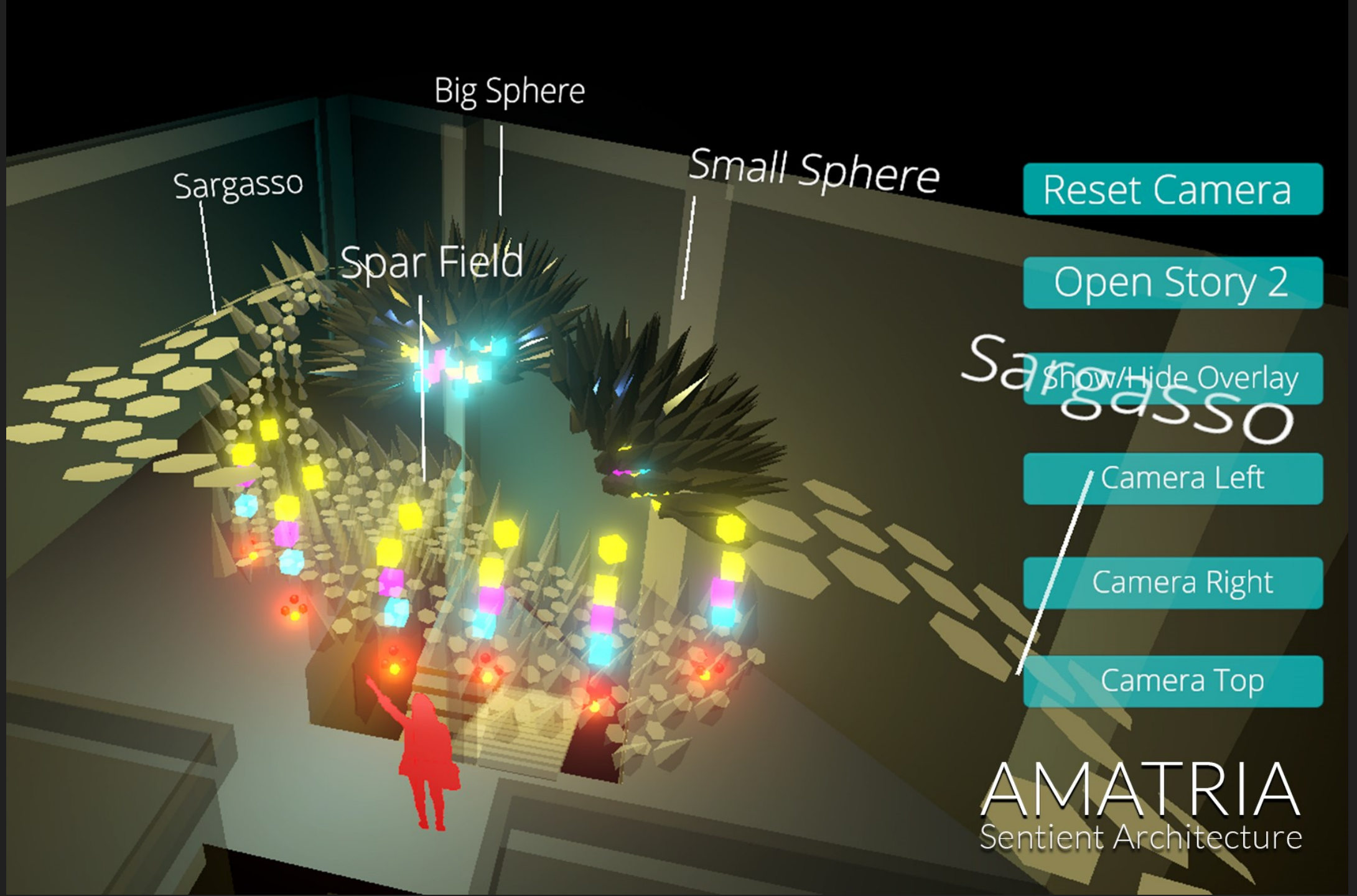
DRAWING LEGEND

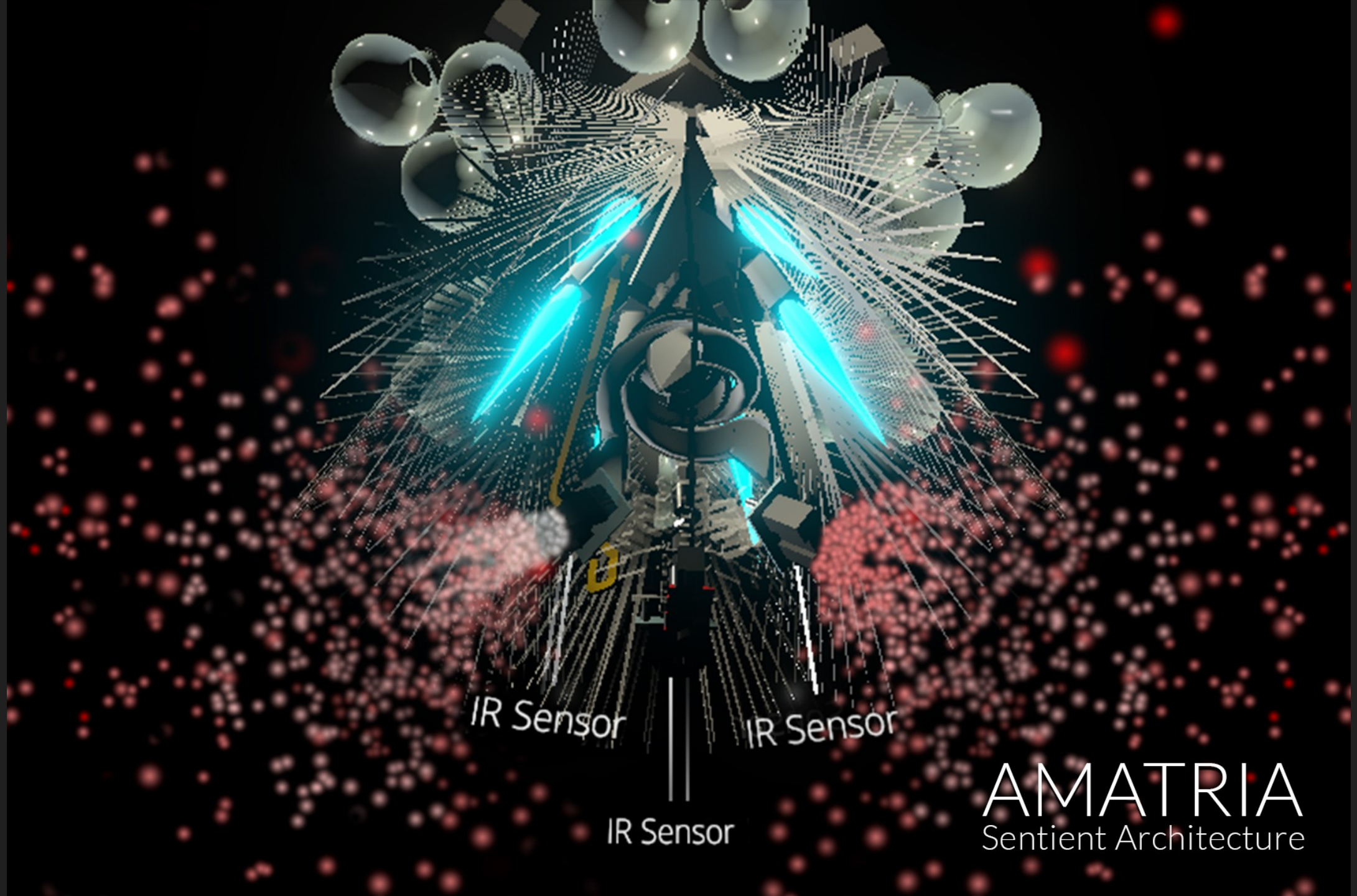
Phase
Design Development

Project
17540 Luddy Hall

Drawing Title
Electronic Schematic

Sheet
IS10••


Big Sphere
Sargasso
Small Sphere
Spar Field
Reset Camera
Open Story 2
Show/Hide Overlay
Sargasso
Camera Left
Camera Right
Camera Top
AMATRIA
Sentient Architecture


IR Sensor
IR Sensor
IR Sensor
AMATRIA
Sentient Architecture

Related Events

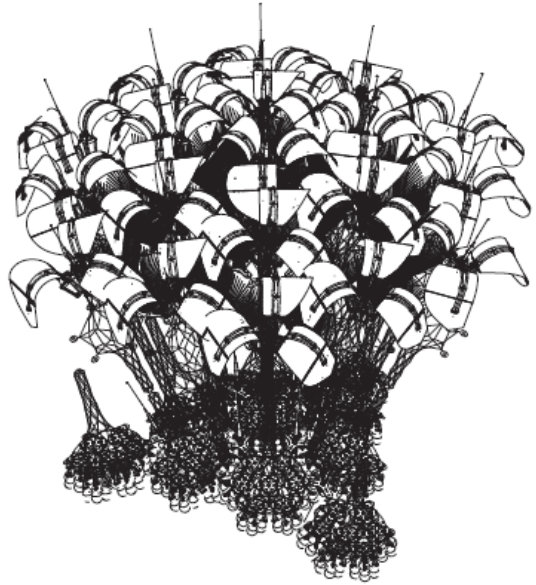
2018

Oct 26-28	OurCS Workshop/Conference, Indiana University, Bloomington, IN
Oct 10	Indiana University Foundation Board of Director's Welcome Reception, Indiana University, Bloomington, IN
Sep 10	Amatria Public Tour (4:00pm–5:00pm), Indiana University, Bloomington, IN
Aug 25	Makevention (10:00am–4:00pm), Monroe Convention Center, Bloomington, IN
Aug 1	NOAC Dendrite Workshop, Indiana University, Bloomington, IN
Jul 18	Pathfinders/Infosys Open House, Indiana University, Bloomington, IN
Jun 19	Amatria Public Tour (2:30pm–3:30pm), Indiana University, Bloomington, IN
May 21	Amatria Public Tour (4:00pm–5:00pm), Indiana University, Bloomington, IN
May 3	Amatria Reserved Tour (1:30pm), Indiana University, Bloomington, IN
May 1	Amatria Reserved Tour (10:30am), Indiana University, Bloomington, IN
Apr 30	Amatria Reserved Tour (2:00pm), Indiana University, Bloomington, IN
Apr 25	Amatria Reserved Tour (12:00pm), Indiana University, Bloomington, IN
Apr 24 & 26	HON-H 241 Dendrite Building Session, Indiana University, Bloomington, IN
Apr 11	VIP Reception before Amatria reveal, Indiana University, Bloomington, IN
Mar 23-24	CEWiT Summit, Indiana University, Bloomington, IN
Mar 2-3	Fashion Technology Symposium, Indiana University, Bloomington, IN

https://cns.iu.edu/amatria.html

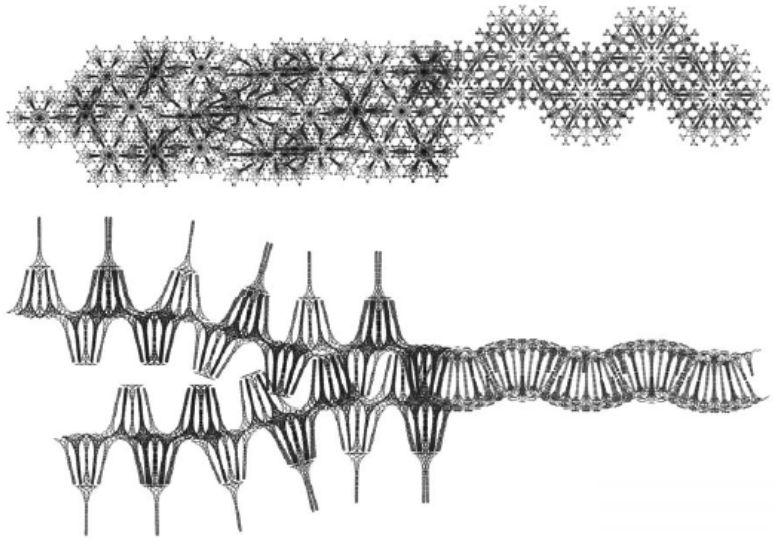
2017

Dec 5 & 7	ENGR 101 Dendrite Building Session, Indiana University, Bloomington, IN
Nov 29-30	FTC Conference, Vancouver, Canada
Nov 10-11	CIS IEEE EnCON 2017, Indiana University, Bloomington, IN

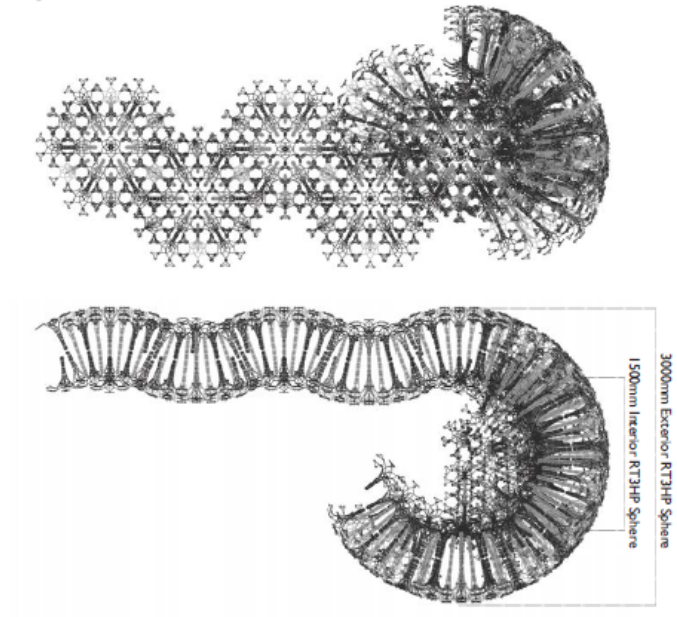


1 Axonometric of Schematic Sphere Unit

2 Schematic Composition of Sphere Unit Assembly



3 "Zipper" Transition between Space Truss Systems



4 Curling of Self-Supported Space Truss to Sphere

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By	Date	Status	Rev By	Rev Date
JJ	17/08/08	PIR		

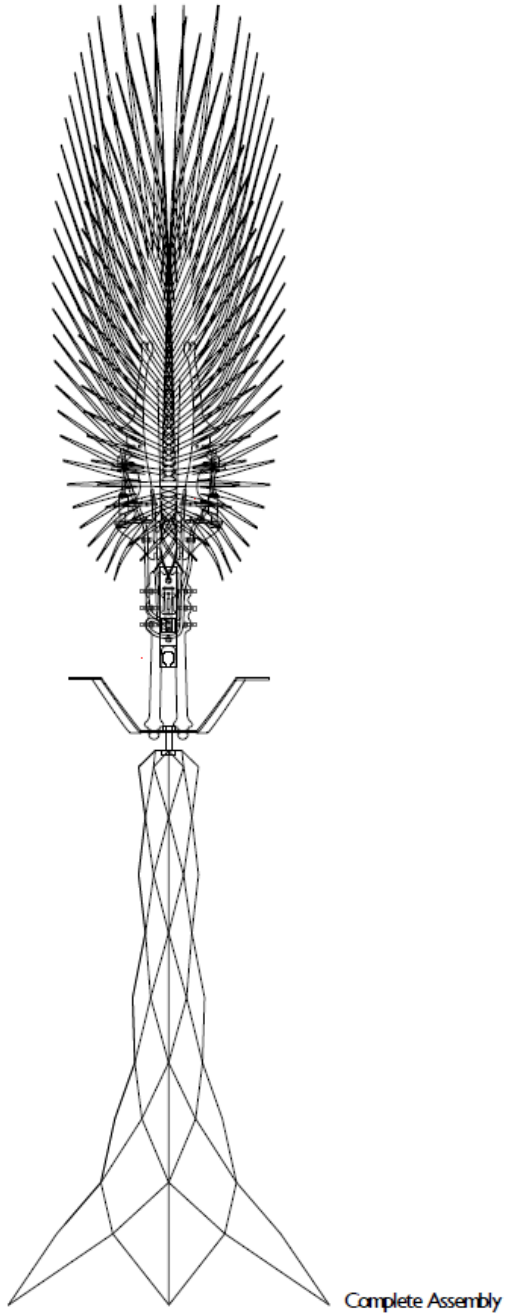
Notes:
PIR - Pending Internal Review

Phase:
Draft Schematic
Design

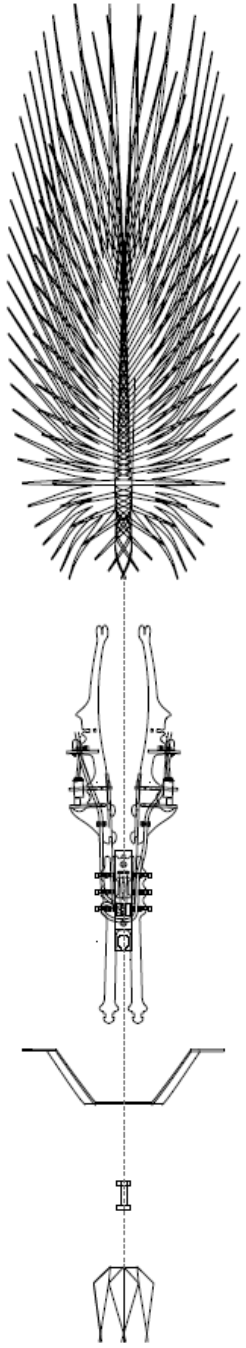
Project:
17538 DX EDIT

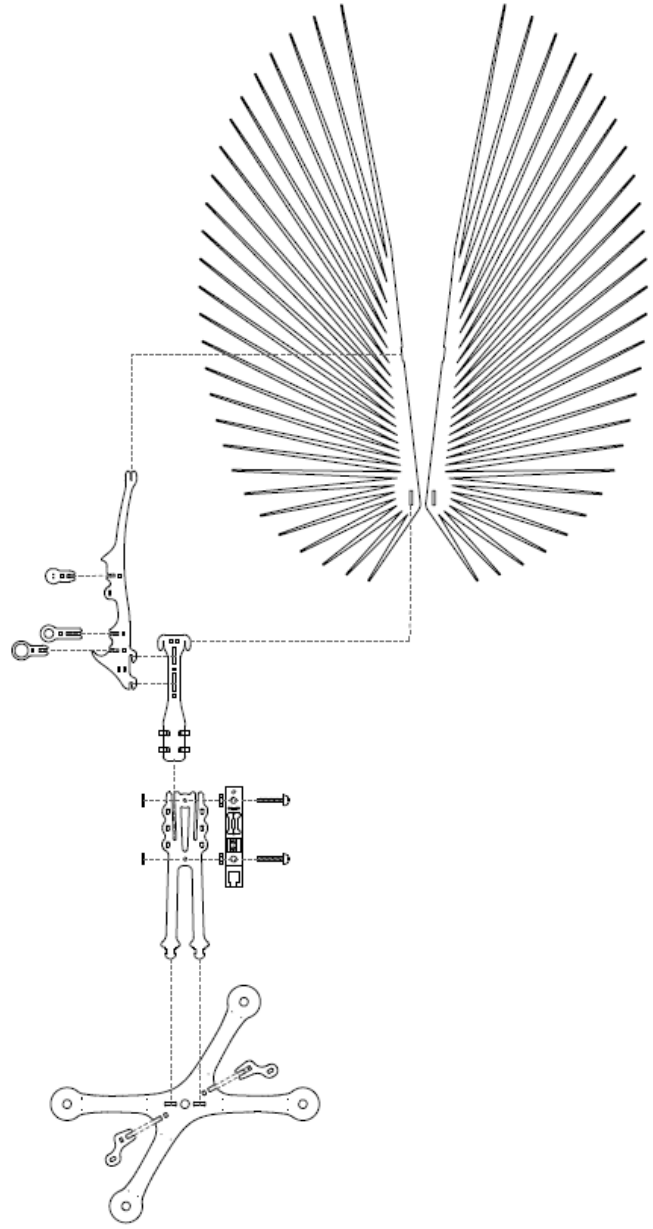
Drawing Title:
Expanded Assembly of Unit
Heirarchy and Scaffold
Assemblies

Sheet:
S101



Complete Assembly





10 20 30 40 50

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By	Date	Status	Rev By	Rev Date
MA	18/03/01	DRAFT	PB	18/03/01

Notes

Phase
Design Development

Project
17540 Luddy Hall

Drawing Title
300mm Kinetic Moth Assembly

Sheet
C101

SCIENCE AND CULTURE

Sentient architecture promises insight into our evolving relationship with AI

Carolyn Beans, *Science Writer*

As the sun set on April 11, 2018, around 400 people gathered in Indiana University's Luddy Hall, anticipating a sort of birth. There, in the home of the School of Informatics, Computing, and Engineering, all eyes pointed to *Amatria*, a woven cloud of white Mylar and clear acrylic plastics, wire, glass, laser-cut stainless steel, and electronics hanging from the glass ceiling.

This new work of "sentient architecture" by multidisciplinary researcher and artist Philip Beesley of the University of Waterloo and colleagues hung still. Then Beesley reached up. Sensing his movement, *Amatria* shuddered. Vibrations near Beesley's hand rippled outward accompanied by bursts of warm light and sounds ranging from otherworldly clinks and bellows to natural gurgles and hisses.

Amatria is at once art installation, architectural prototype, and test bed for artificial intelligence. Beesley created the sculpture in collaboration with researchers at Indiana University, as well as electrical engineer Rob Gorbet of the University of Waterloo and other members of Beesley's Living Architecture Systems group (LAS), which includes an international team of 90 architects, scientists, engineers, and sound artists.

The goal of the LAS group is to make buildings come alive, revolutionizing built spaces and our relationships with them. The group aspires to create an architectural structure that is more integrated with the natural world, a metabolism that enables self-renewal, and an artificial intelligence capable of curiosity and even empathy.

***Amatria*, a new work of "sentient architecture" by Philip Beesley and others in LAS, is at once art installation, architectural prototype, and test bed for artificial intelligence. Image courtesy of Philip Beesley (photographer).**

www.pnas.org/cgi/doi/10.1073/pnas.1809390115

http://www.pnas.org/content/115/30/7638