

Academy of Architecture for Health On-line Professional Development

Scripps Barbey Family Emergency and Trauma Center A Partnership in Design for the Future

Case Study Series

September 19, 2017

2:00 pm – 3:00 pm ET

1:00 pm – 2:00 pm CT

12:00 am – 1:00 pm MT

11:00 am – 12:00 pm PT

Presenters

Alicia Wachtel, LEED® GA, HOK

Peter Grandine, HOK

Hunvey Chen, AIA, DBIA, LEED® AP BD+C, HOK

Kimberlee Roberts, MPH, FACHE, Scripps Memorial Hospital

Moderator

Stacy Robben, FSMPS, LEED® AP BD+C

McCarthy Building Companies, Inc.

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Case Study Series

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Case Study Series sessions are tailored to provide healthcare design professionals with examination of the why and how of award-winning designs.

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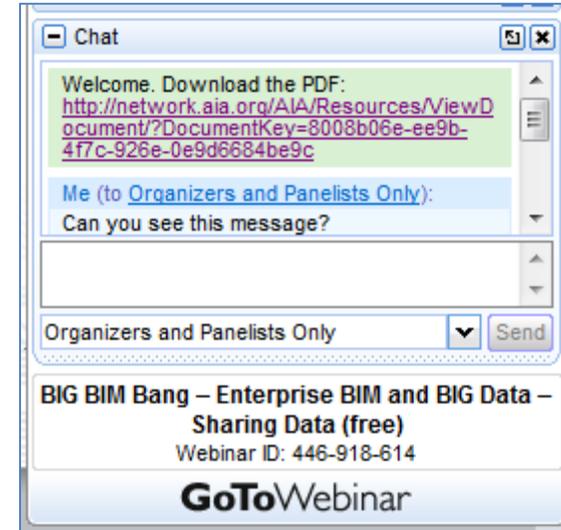
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Enjoy!

Scripps Barbey Family Emergency and Trauma Center

A Partnership in Design for the Future

Presenters



Alicia Wachtel, LEED® GA
Regional Healthcare Practice Leader
HOK



Hunvey Chen, AIA, DBIA, LEED® AP BD+C
Senior Project Architect
HOK



Peter Grandine
Senior Medical Planner
HOK

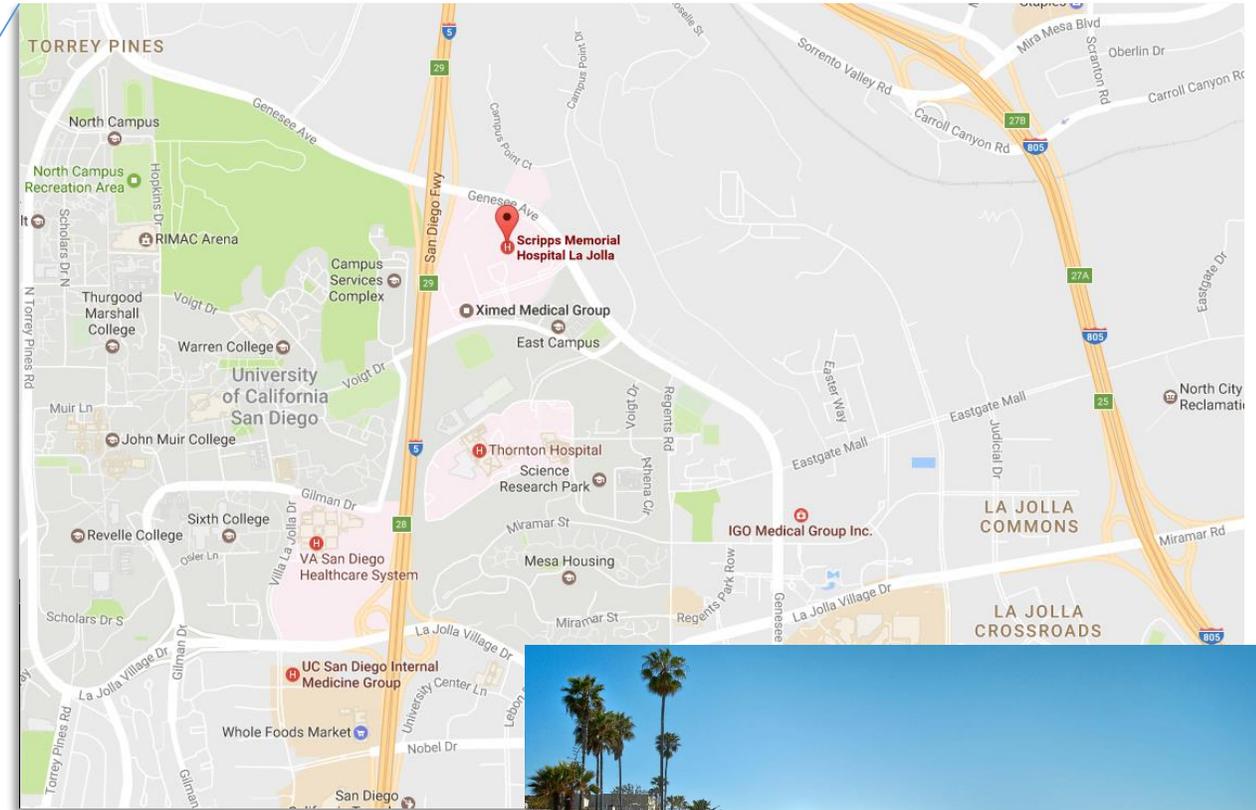
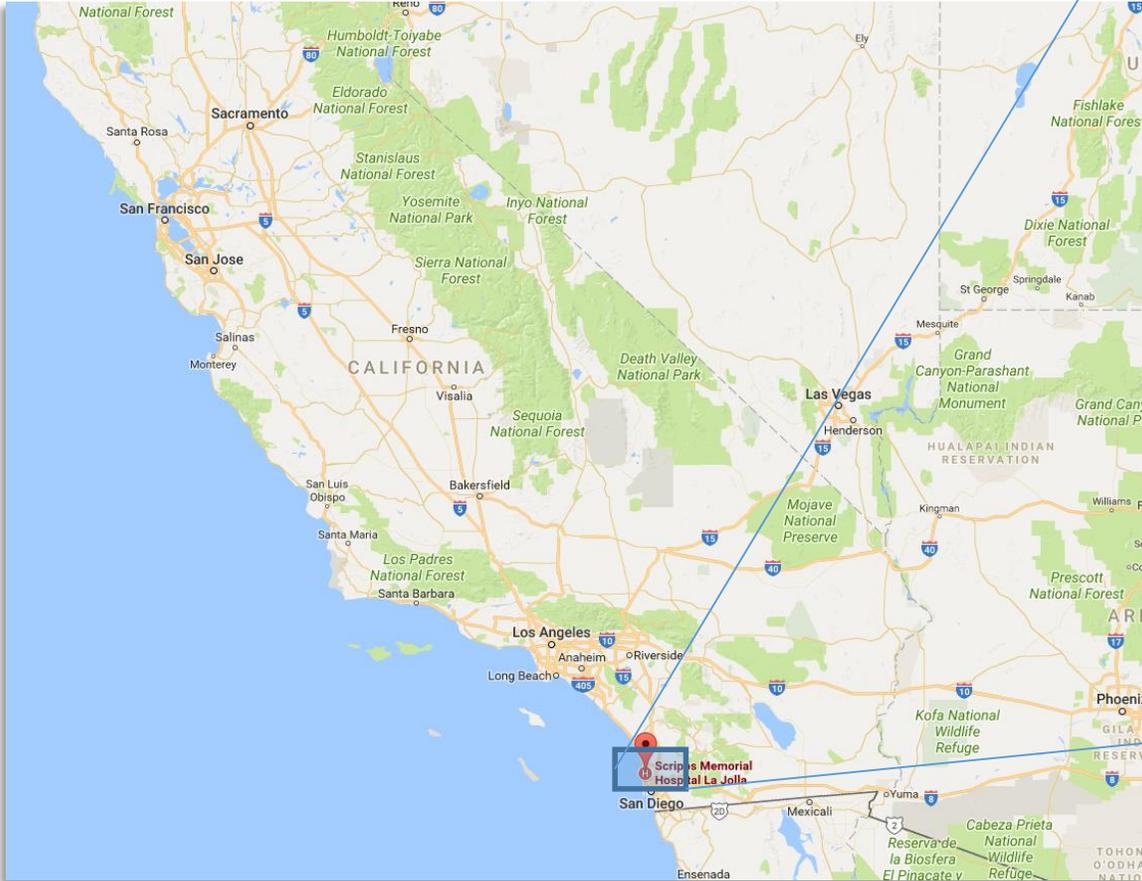


Kimberlee Roberts, MPH, FACHE
Senior Director, Clinical Services
Scripps Memorial Hospital

The Learning Objectives

- Identify how an integrated project team established the success of the emergency department project before it even began.
- Understand how a collaborative design process from the visioning session through construction allowed for flexibility in design and consideration for future growth.
- Understand how emergency department drivers unique to this health system facility were identified and met.
- Learn how the facility shifted their operational mindset which inspired the planning and design for the new emergency department.

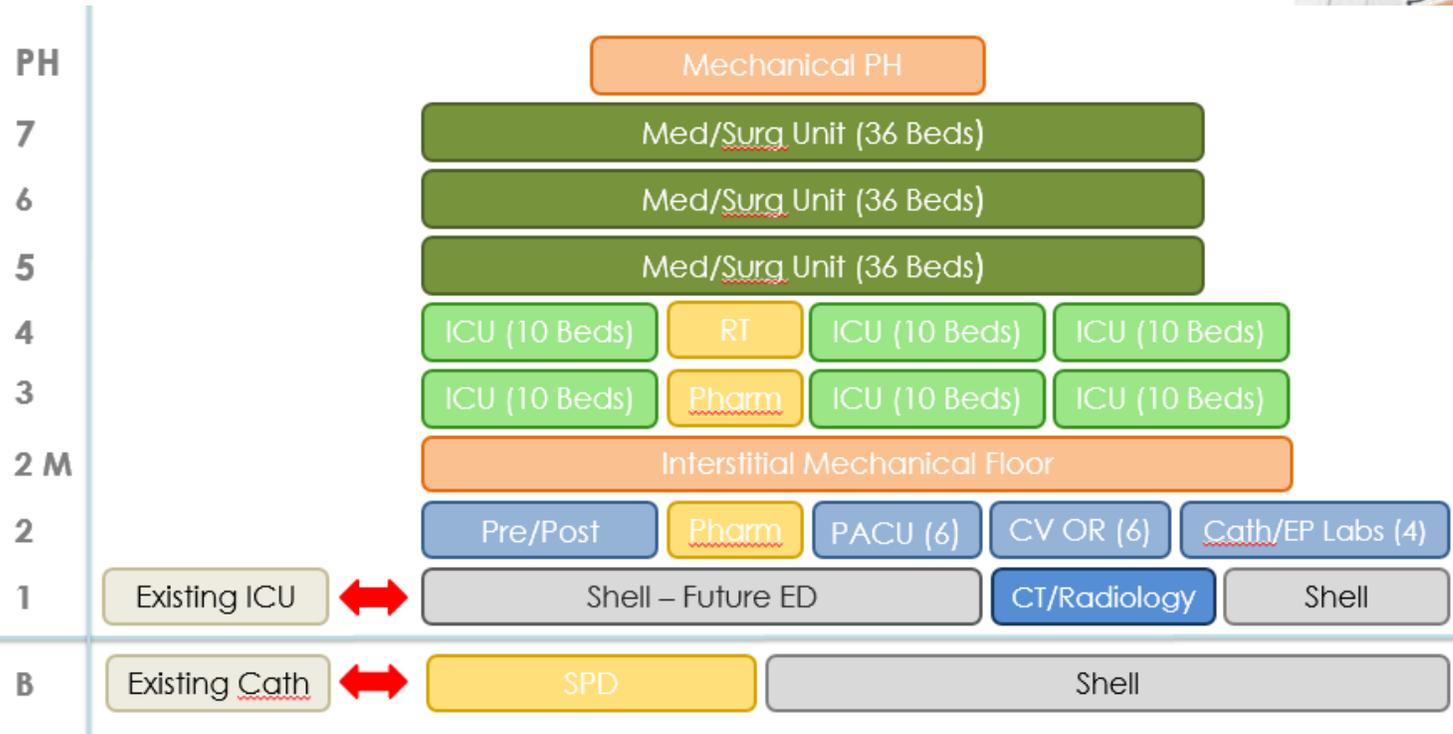
The Location



Scripps Memorial
Hospital La Jolla
San Diego, California

The Context

Initial program indicated location of the ED at Level 1 of Scripps Prebys Cardiovascular Institute (SPCI), with connection to future Phase 2 and future Trauma.



SPCI

The History

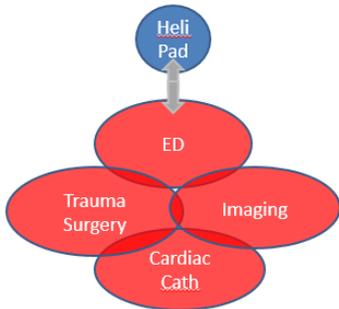
Distance and adjacencies were studied in relation to Trauma, Helipad and Imaging

Problem Statement

Best ED Location

➤ Minimize Distance to Vital Services

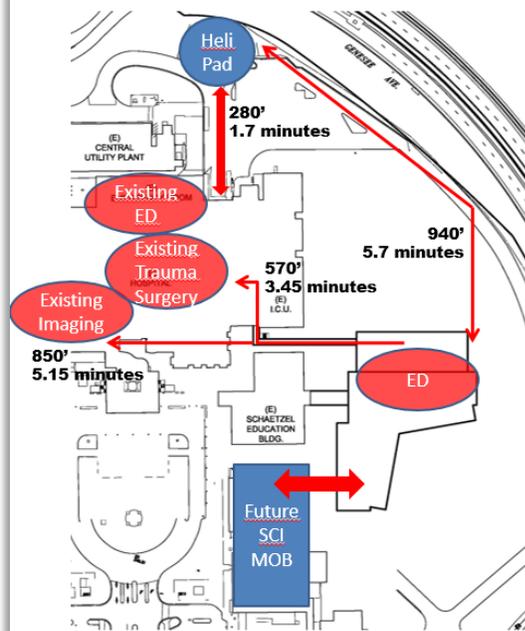
- Helipad to ED
- ED to Trauma Surgery
- ED to Radiology (Imaging)



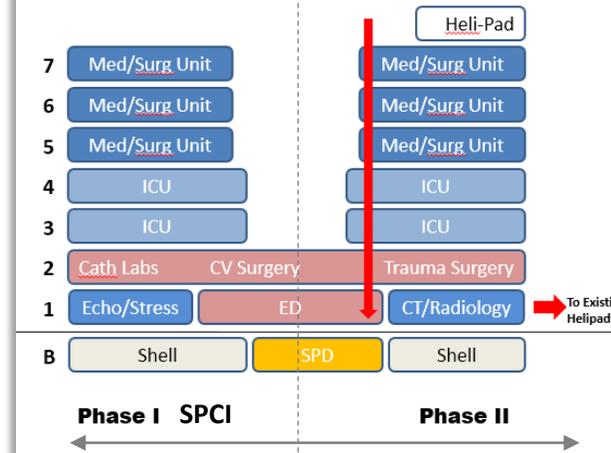
Programmed
 ➤ ED footprint in Phase I is not conducive to the Ideal Layout at the end of Phase II and Phase III



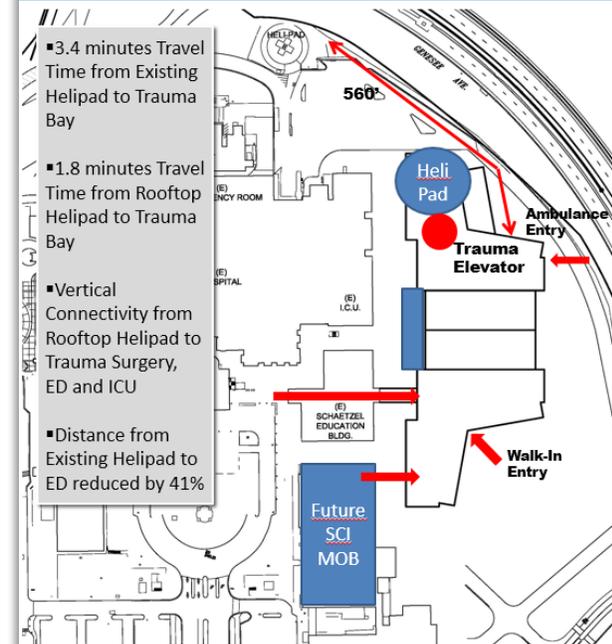
Phase I Site Plan – as Programmed



Stacking Diagram – Phase I and Phase II



Phase II Site Plan – Proposed



The Numbers

- Current Annual Volume = 39,000
- Target Annual Volume = 40,000 – 45,000
- ESI Category Mix = 1-5

- Existing ED = 5,000 SF
- New ED = 36,000 SF



Existing Emergency Department

Trauma Bay



Treatment Bay



Nursing Station



Rapid Treatment Bay



Quick Look

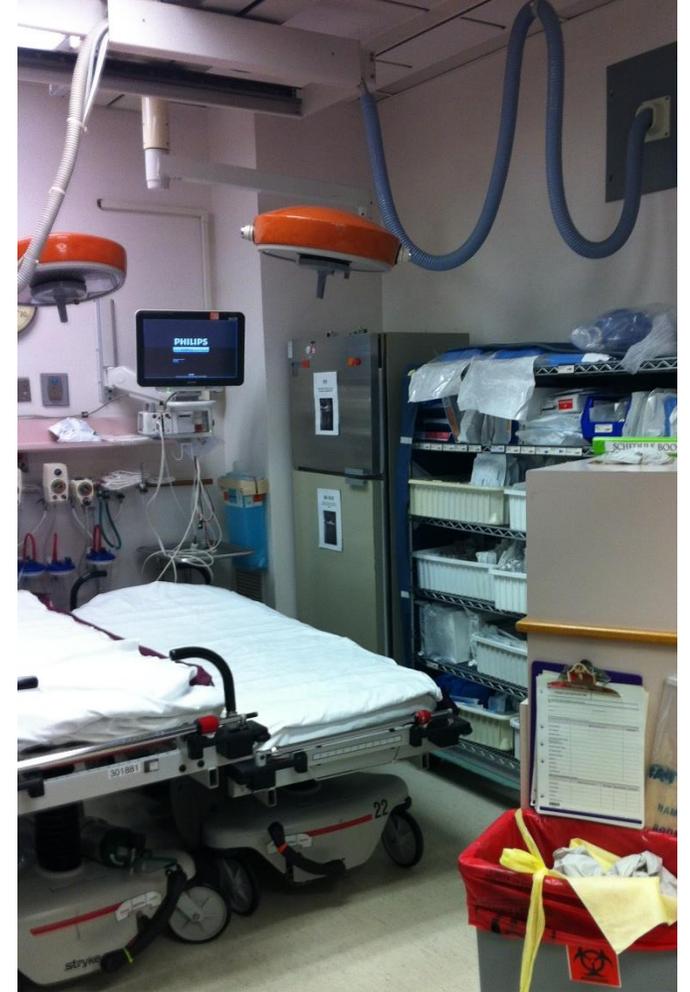


ED Corridor



The Scope

- Replacement Emergency Department
- Check In / Quick Look
- 11 Rapid Treatment Bays (3 closed, 8 open)
- 18 ED Exam Rooms
- 18 Clinical Decision Unit Exam Rooms / Overflow
- 4 Trauma Bays – expandable to 8
- Adjacent Imaging – MRI, CT, X-Ray, Ultrasound
- Flexible planning for expansion to future Tower 2



The Process – Working Together

Speling Doesn't Kount

Misery is optional

Leave titles at the door

Technology on vibrate

One speaker at a time

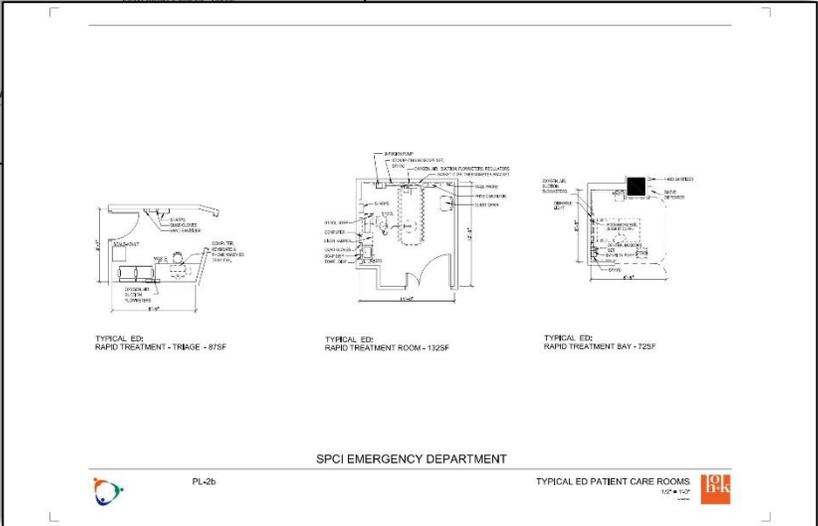
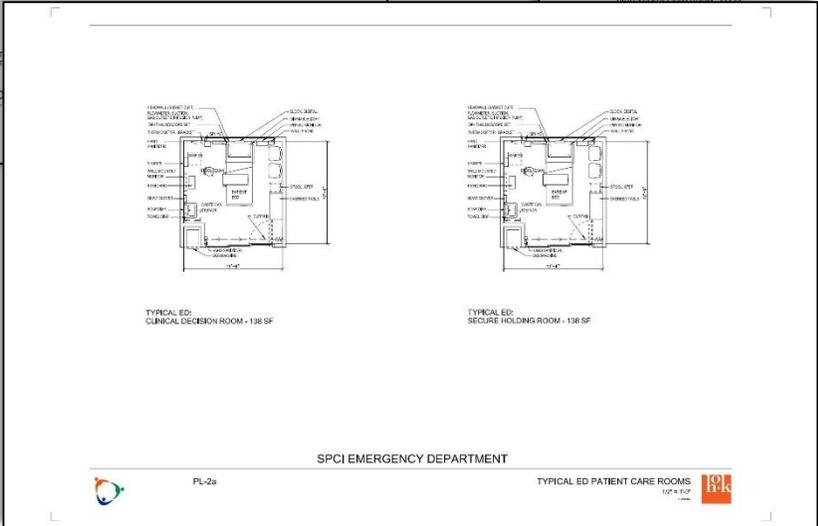
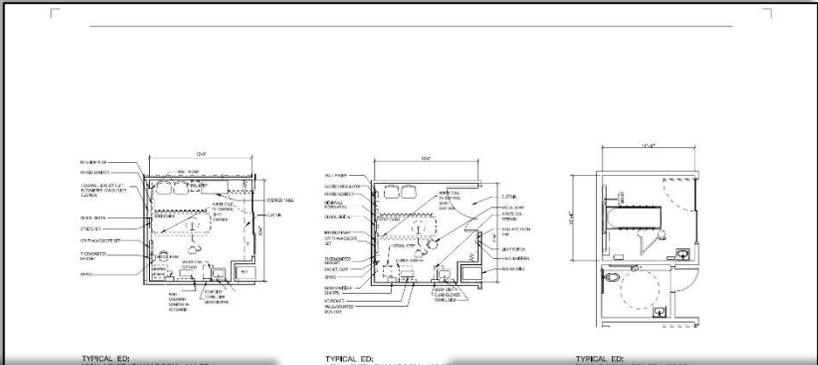
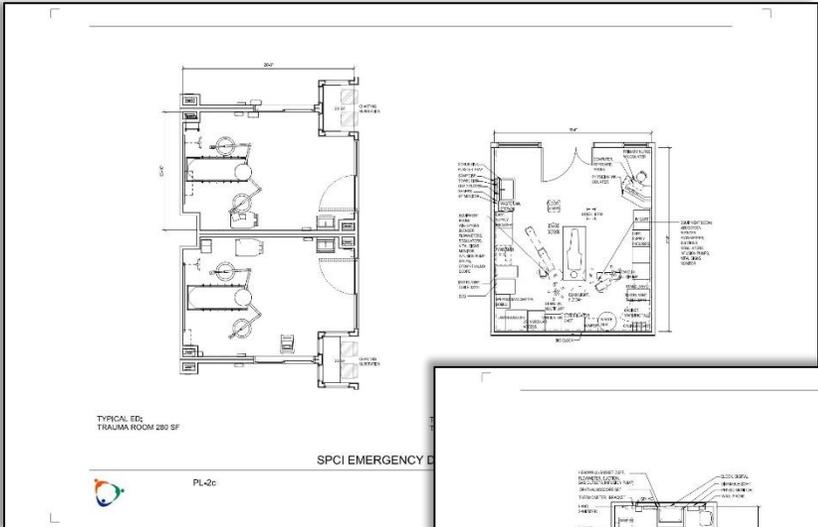
Everyone participates

No ideas are bad ideas

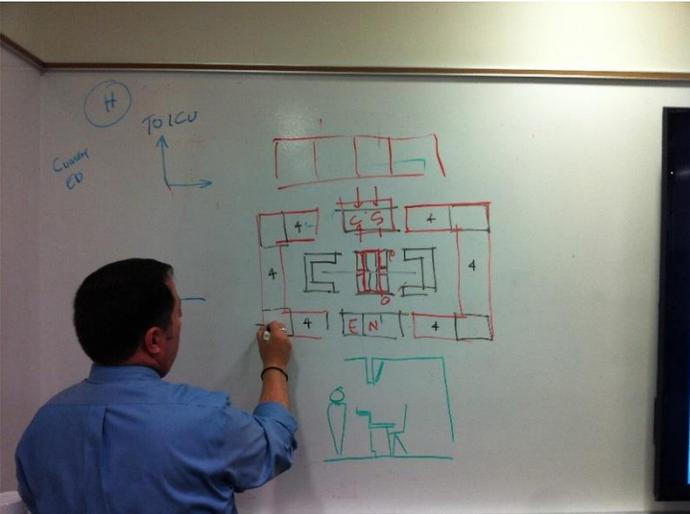
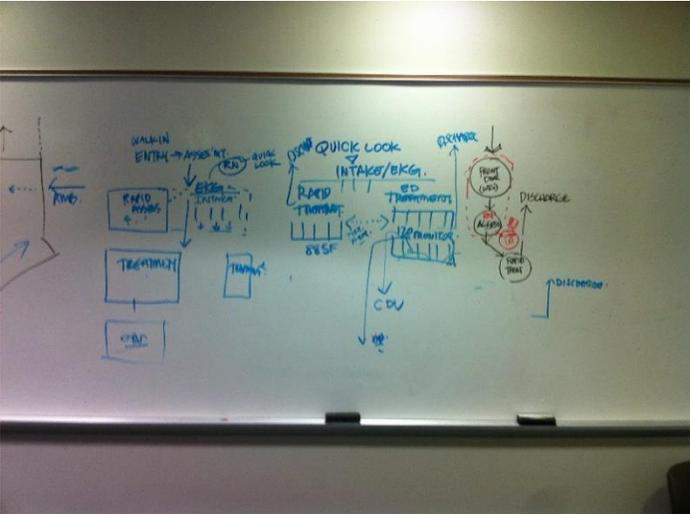
start on time, end on time



The Process – Coming Prepared

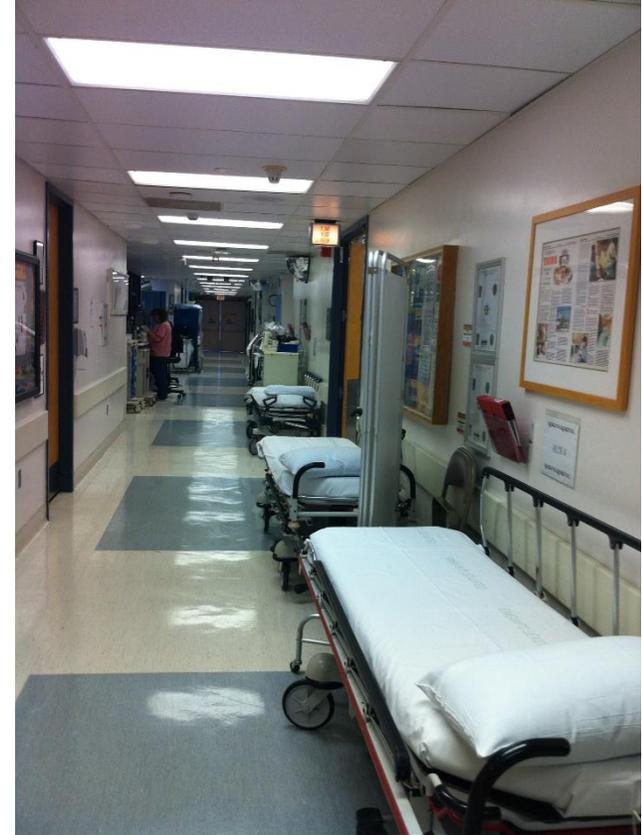


The Process – *No idea is a bad idea*



The Drivers

- Fast thru-put is a priority (90 minutes or less)
- Design for orientation and flow
- Maximize number of beds with the correct staffing ratios
- Enhance physician communication
- Staff and physician security
- Connection to future Phase 2 Tower
- Visibility throughout the entire department
- Connection between Emergent Care, Rapid Treatment and Trauma
- Quick access from Trauma to Imaging
- Imaging must also be shared with the Bed Tower.



The Emergency Department Layout



Fast Thru-put



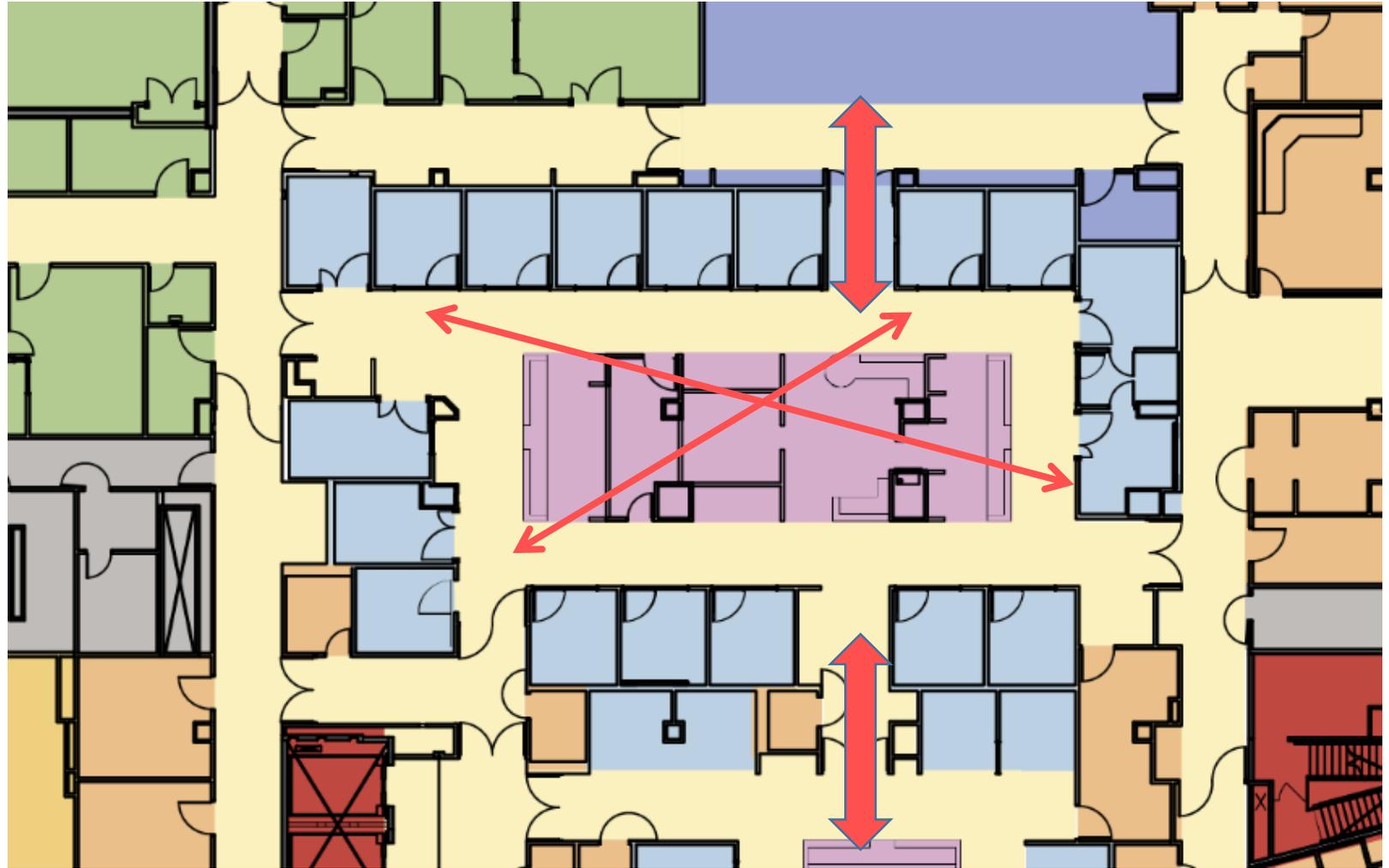
Design For Orientation and Flow



Security

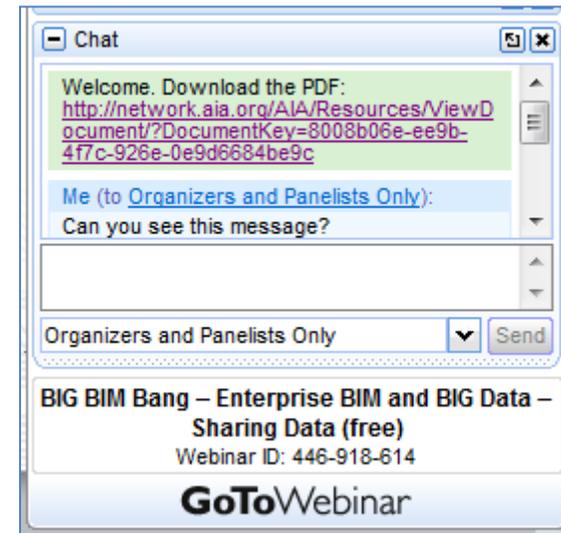


Communication and Visibility



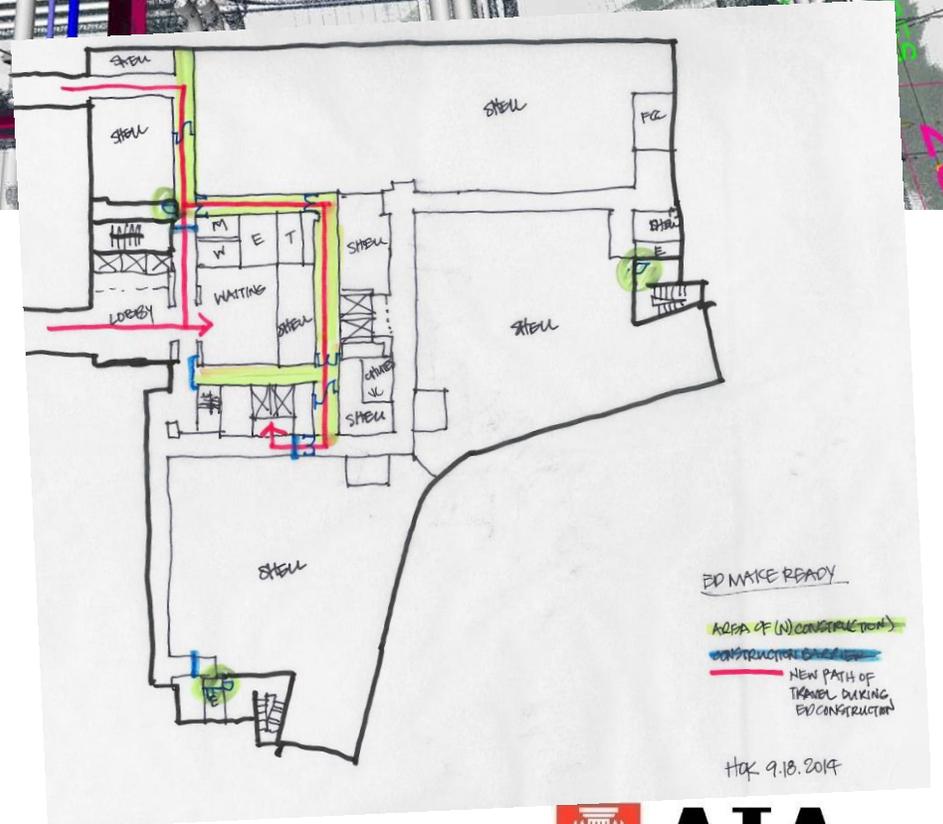
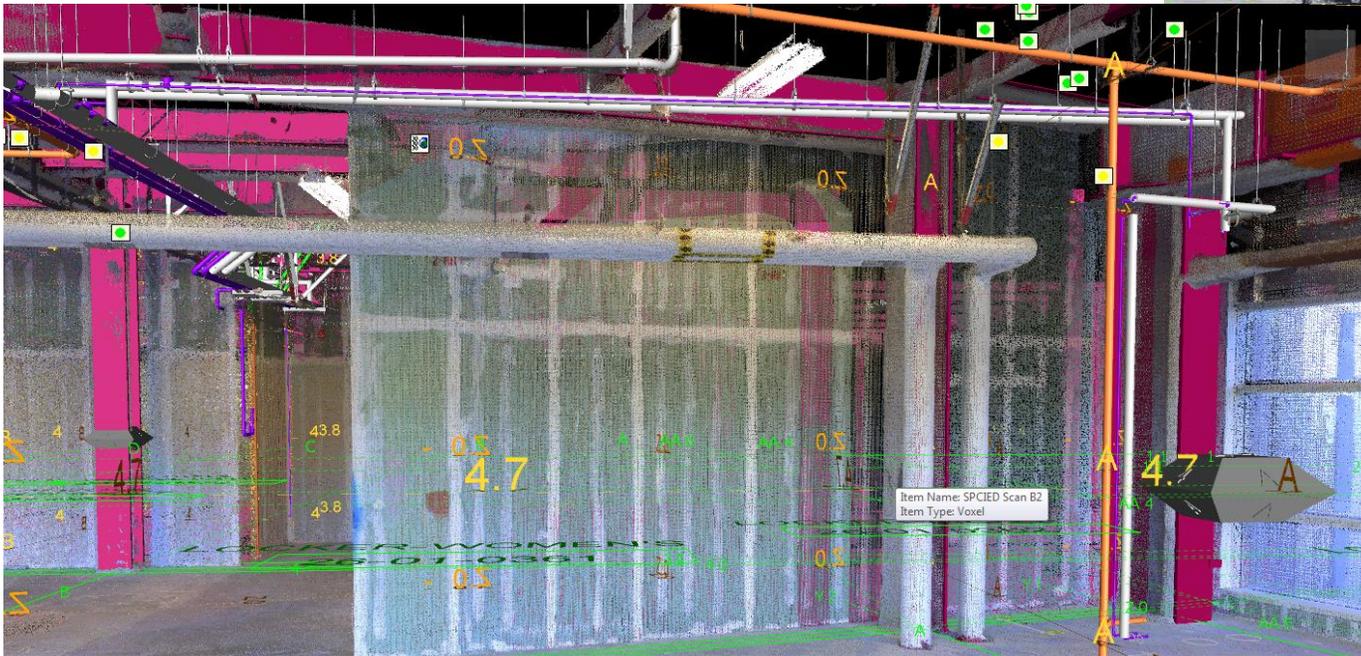
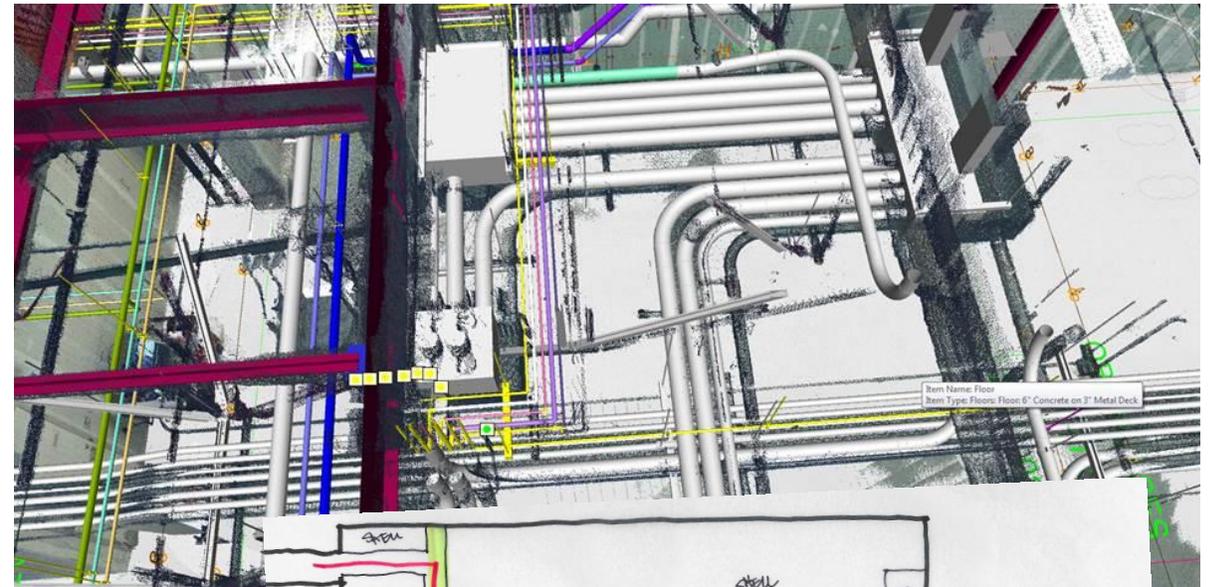
Upcoming Break for Questions and Comments

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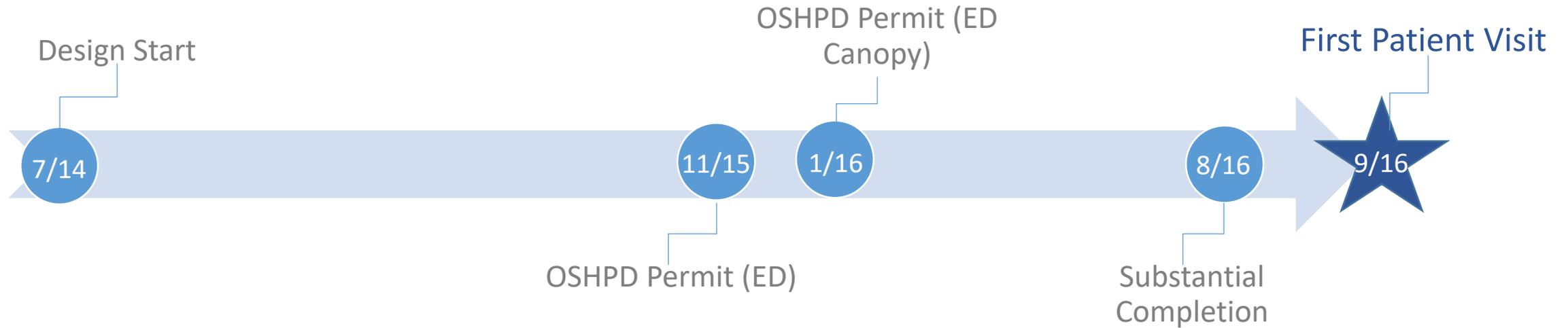


The Delivery

- Design-Build Team
- All trades on board by DD
- Weekly model exchange and coordination during design and early construction using Navisworks
- Laser Scan of shelled space viewable in Recap



The Schedule



- 4 OSHPD Packages
 - ED Make Ready
 - ED Demo
 - ED Canopy
 - ED

The Results









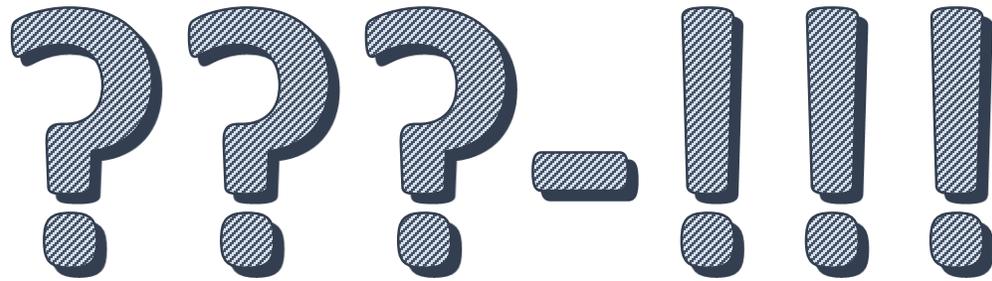




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Time for Questions and Comments



Moderator

Stacy Robben

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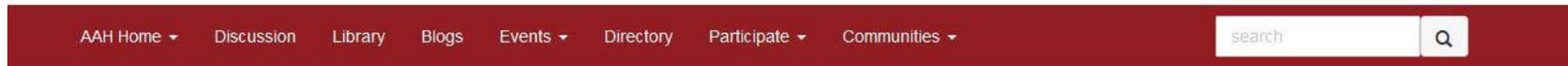
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Date	Series	Topic
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11/7	Master Studio Series	Generative Design for Healthcare Planning
12/12	HC 101 Series	Trends in Medical Planning, Part 1: Following the Thread

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