

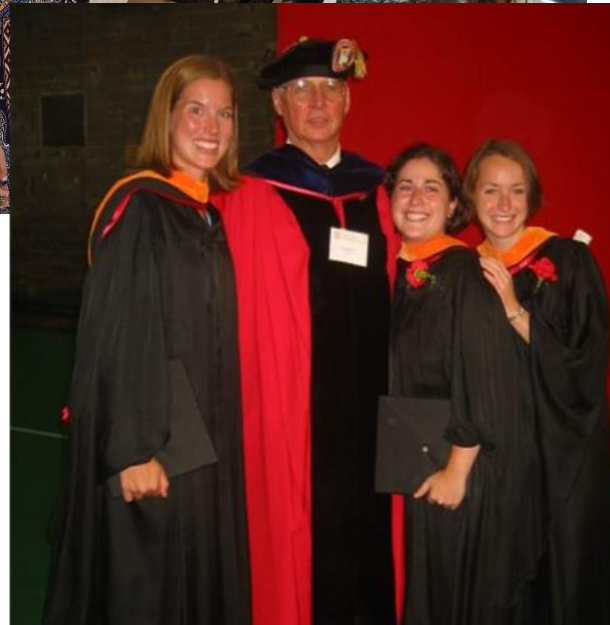
Knowing Ken Hover is never dull...

Matt Sherman, P.E., FACI

Former Student, Mentee, Collaborator, Admirer



It starts with people...



THE WORLD'S GATHERING PLACE FOR ADVANCING CONCRETE

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CONVENTION



My story with Prof. Hover...

JULIETTE SHEPPARD

Poetry, Travel

MATTHEW SHERMAN

Drama, Skiing

MELISSA SHERMAN

CRAIG SHIESLEY

Baseball, Debating

Jeffersonville, NY

Engineering

Melrose, MA

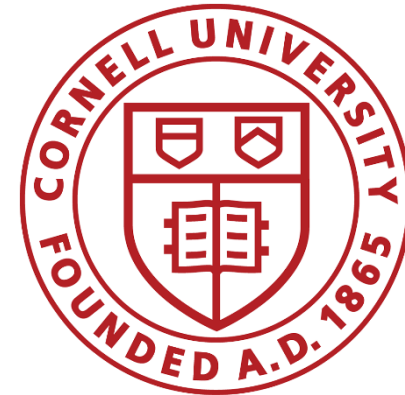
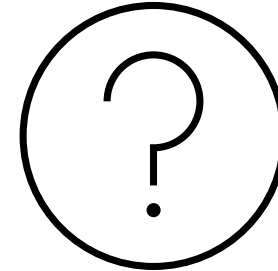
Engineering

Scarsdale, NY

Liberal Arts

North Tonawanda, NY

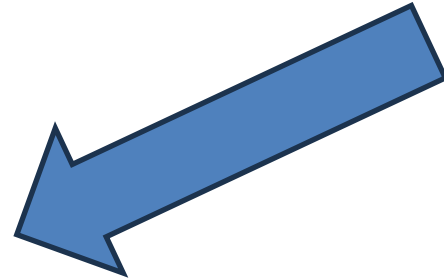
Meteorology



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And it continued to grow and evolve...



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It all started with CEE 595...

- Construction Management
- Taught by Ken Hover
- TA'd by Ray Cook



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And the magic started...

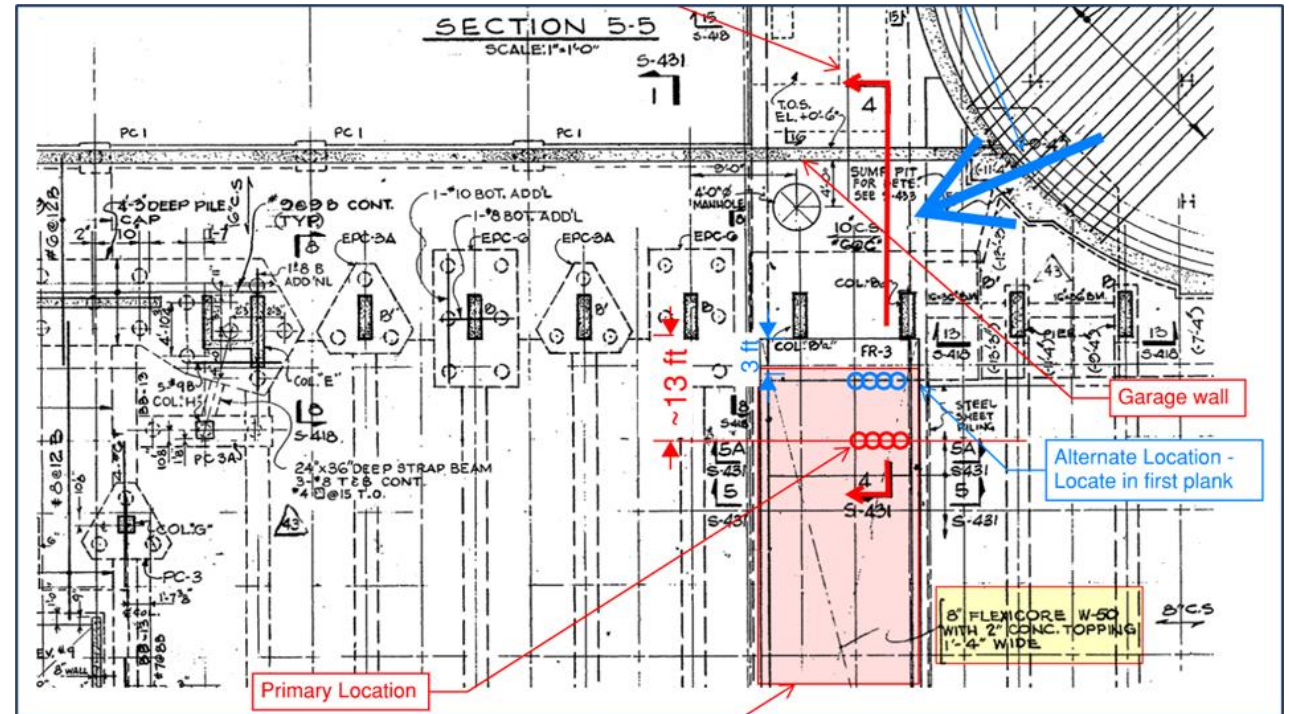
- Learned about
 - Trades
 - Money
 - Schedule
 - Eugene
- It started with specifications...
- And we learned a ton

SPECIFICATION SECTION 003500-PIZZ



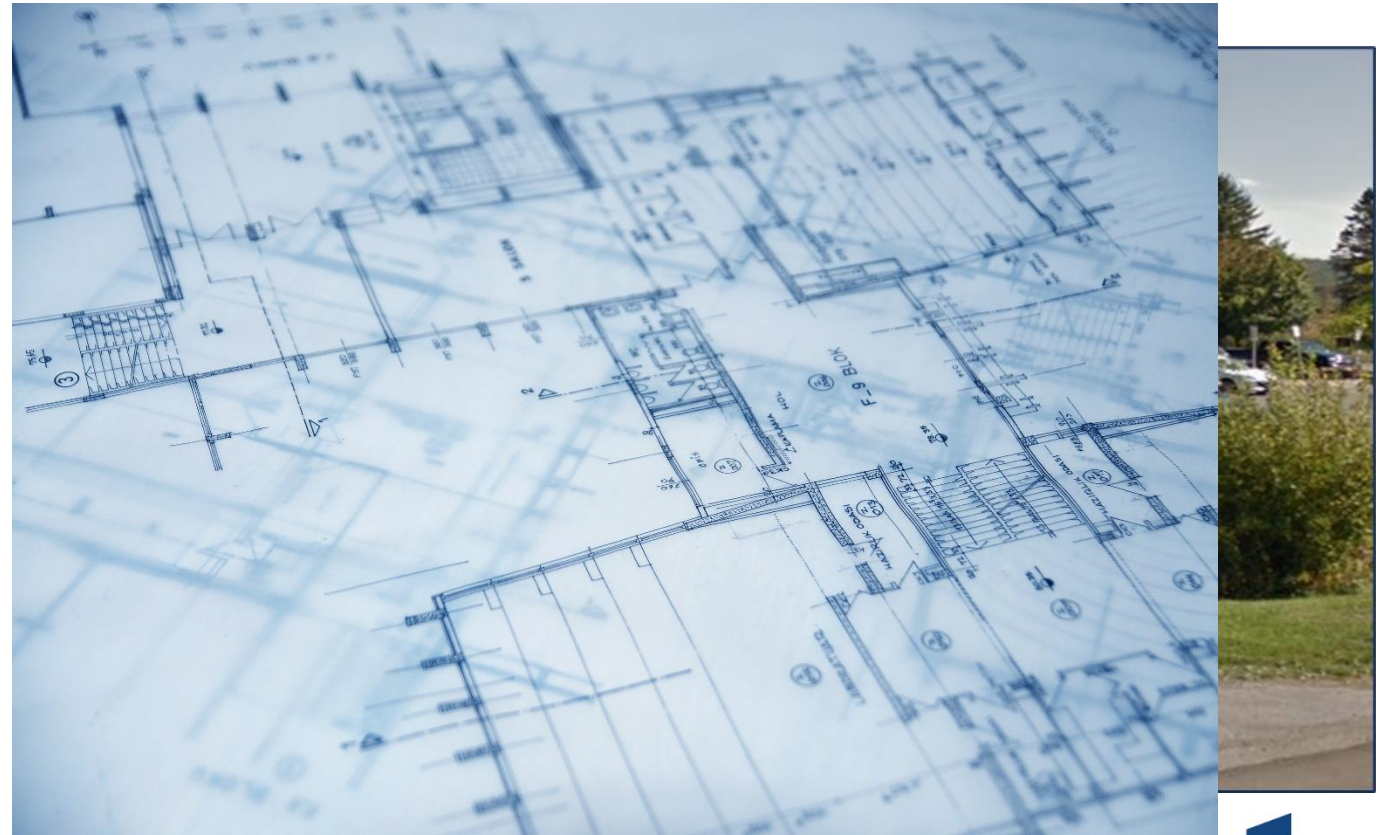
The Bid Project...

- We “played” contractor for our Capstone project
- Provided with documents from a local-ish small project
- Our “companies” would bid the project – takeoffs, pricing, and Bid Night
- I can only now appreciate the effort required to set this up



The Bid Project...

- Teams all received a set of anonymized drawings
- One [nameless] intrepid team gets the Yellow Pages out and starts road-tripping to all the clinics in the region...



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Bid Night...

- All teams had to have an “office” on campus...
- It started as a game, but at some point, it became real
- Again, the amount of effort was amazing



It continued with CEE 675...

	Copies \$3.20
	Total \$3.42

CEE 675-Part #1

"Concrete Materials"

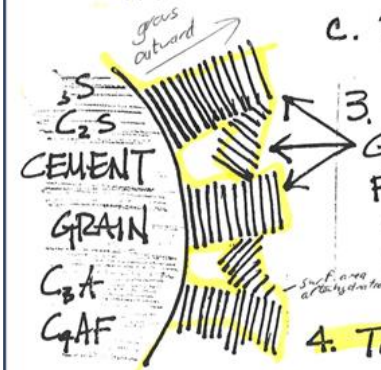
Prof. Hover

Spring 1991

1-31-91

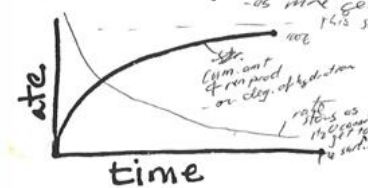
PHYSICAL ASPECTS OF THE HYDRATION PROCESS

1. CEMENT GRAIN IS MINEROLOGICALLY HETEROGENEOUS. *- each grain is made of comb. of all parts - only slightly soluble*
2. HYDRATION PRODUCTS GROW AT OR NEAR THE GRAIN SURFACE.
 - A. LE CHATELIER: MINERALS DISSOLVE AND RE-PRECIPITATE NEAR THE GRAIN.
 - B. MICHAELIS: "SOLID STATE" RX AT THE CEMENT GRAIN SURFACE.
 - C. PROBABLY A COMBINATION



3. GEL: AMORPHOUS MASS OF POORLY ORDERED AND ORIENTED CRYSTALS (NON-HOMOGENEOUS)

4. TO SUSTAIN THE HYDRATION, WATER MUST DIFFUSE THROUGH THE GEL TO THE REACTIVE SURFACE OF THE CEMENT GRAIN.



5. DURING HYDRATION, SPECIFIC SURFACE INCREASES 700 TIMES
 $2250 \text{ m}^2/\text{kg} \rightarrow 150,000 \text{ m}^2/\text{kg}$
 $100,000 \text{ sf/sack} \rightarrow 2.4 \text{ miles}^2/\text{sack}$

PHYS-1

It started small...

Copies	\$3.20
Total	\$3.42

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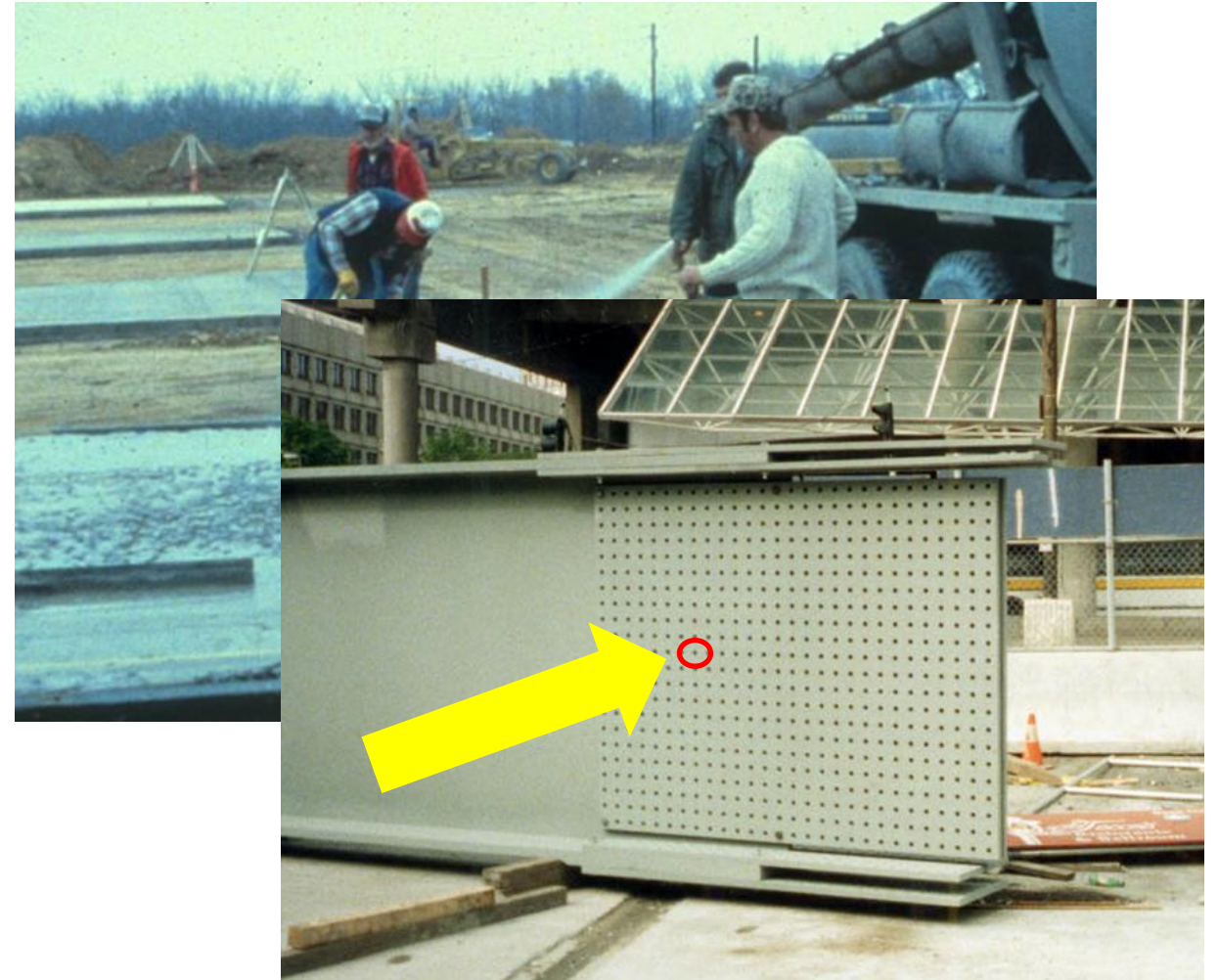


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After undergrad...

- Advice on graduate school
- Career advice
- Maintained connection to past students
- Stayed in contact
- Swapped pictures and stories



After undergrad...

- Introduced me to the operational side of ACI
- Served on committees
- Introduced me to many great people



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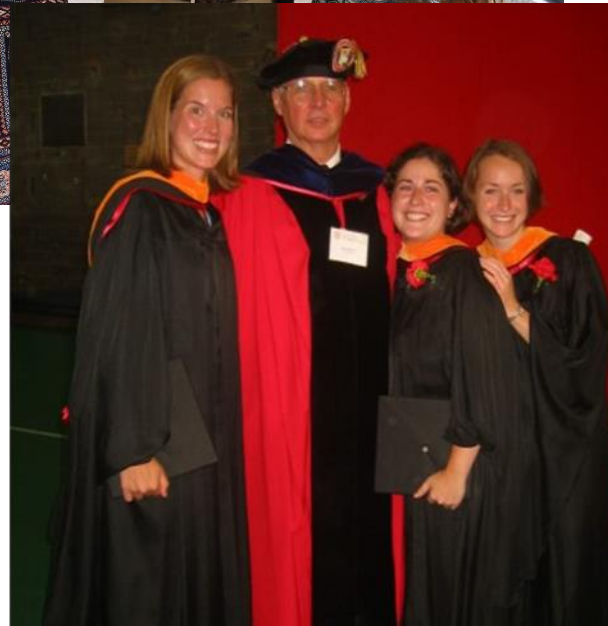


And it went full circle...

- Connections to potential hires
- Co-op referrals
- And then as a peer when he had a relative of mine as a student and then as a grader



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And it's always fun! Thank You

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