Project Bluejay

- Longest concrete pumping was 900’ off of the pump. 750’ slick line and 150’ rubber
- SOG and SOMD simultaneously typically 900-1000 yds on deck, 1400-1600 on ground
- Winter conditions challenges to overcome
- Sequencing changes due to Amazon early access dates
- Achieving these pours with a rotating man-power team as they all traveled
- Mesh install crew, install 50,000 to 60,000 sq ft per day.

Concrete Summary

<table>
<thead>
<tr>
<th>Description</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bollards</td>
<td>40.50</td>
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<tr>
<td>Column</td>
<td>169.00</td>
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<tr>
<td>Curb</td>
<td>269.50</td>
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<tr>
<td>Footing</td>
<td>6,328.50</td>
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<tr>
<td>Interior Piers</td>
<td>9,005.50</td>
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<tr>
<td>Interior SOG</td>
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<tr>
<td>Paving</td>
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<td>Retaining Walls</td>
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<td>SOMD</td>
<td>33,816.00</td>
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<tr>
<td>Stem Walls</td>
<td>1,814.00</td>
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<tr>
<td>Stoops</td>
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<tr>
<td>Walks</td>
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<tr>
<td><strong>TOTAL:</strong></td>
<td><strong>88,910.00</strong></td>
</tr>
</tbody>
</table>
SOD # 3 rebar welded @ 4" X 4"

Ready for Concrete

Fun Facts

- Started on Oct. 16, 2019
- Substantial complete Sep. 29, 2020
- First SOD Pour 4th Floor 3-11 To last Interior Pour 5-16
- 67 Calendar days 3,000,000 SF
- CSI Partnered with Norwalk Concrete
- 10 Foot Candle of light required for all pours

Pouring SOD
Krause Gateway Center

- Broke ground in 2015; Completed in 2018
- 6-story building; 164,000 SF
- 225-stall 2-story underground parking
- Designed by internationally renowned architect Renzo Piano Building Workshop (Genoa/Paris/New York)
- Architect-of-Record: OPN Architects
- Over 55 design consultants and subcontractors
Krause Gateway Center

• Natural, abundant light throughout the building
• Collaborative work environments
• Outdoor meeting space
• Rooftop plaza sized for over 700 people
• Green Roof with native prairie plants
• Fitness room and adjoining locker room
• Game room
• Art collection

Krause Gateway Center

• Over 65,000 cubic yards of material has been excavated from the site
• Over 4,000 tons of Structural Steel
• 1,400 Steel Penetrations
• 29' tall x 4' wide glass panels
• 100’ tall mast on top of the building
• LEED Certification (Registered)
Self Performed Work

- Normally run around 100 skilled tradesman in the field – between Carpenters, Finishers, and Laborers – this last year we peaked our skilled trade labor at 223
- Concrete
- Carpentry
- Structural and Finish Demo of Existing Spaces

KGC – Concrete Scope

- Foundations
  - Columns
  - Grade Beams
  - Pile Caps
  - Foundation Walls – 32'-0'' tall in parking garage
- Architectural Finished Concrete walls – similar to precast finish
- Slab on Grade
- Mild Reinforced concrete decks (parking ramp area)
- Slab on Metal Deck (building levels)
- Topping slabs on all levels
- Exterior Site concrete
  - Sidewalks
  - Exposed aggregate with a ground finish

Challenges

- Working through constraints with the building itself. Overhangs made it difficult to complete “normal” concrete pours.
- Tasked with producing “perfect” cast-in-place walls with the visual characteristics of precast based only on photos of past project.
- Site logistics – tight and highly visible site that takes up a small city block. It is always a challenge to make sure all work is coordinated.
Core Mat Slab Stats

- Five hour duration
- Two concrete pumps
- 627 cubic yards of concrete
- 63 trucks of concrete material
- 39,763 LF (7.5 miles) of rebar
- 35.5 tons of rebar
PARKING GARAGE
BUILDING FLATWORK

- Topping Slab Prep
- Slab-on-Deck Heat Tube
- Slab-on-Deck Pour
ARCHITECTURAL CONCRETE WALLS
MOCK-UPS