

Introductions

Note: Introductions

Rod Neil, Senior Project Manager M Health Fairview

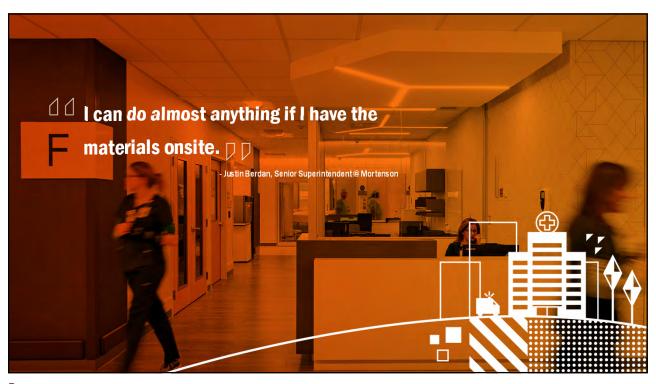
Introductions

Julie Crawford, CHC, Market Executive Mortenson

Chan Scholz, AIA, Project Manager BWBR







Market Update

"Due to ongoing concrete supply chain issues, all readymix concrete suppliers have been placed on scheduled allotments from their respective cement and aggregate suppliers. Due to these allotments, ready-mix suppliers are expected to reduce their concrete production capacity by approximately 50%. These allotments are expected to remain in effect through the end of this year and could extend into 2023."

- A ready-mix supplier in Omaha

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>>> Market Update

- ► Supply and Demand Imbalance
 - ► Factory capacity "catch-up" from Covid shutdowns
 - ▶ Volatility of labor market across most industries
- ► Storm Season
 - ► Feb 2021 Texas Freeze => power crisis, intermodal (rail) transport impacts, semiconductor manufacturing shutdowns
 - ➤ Sept 2021 Hurricane Ida => New Orleans Port damage, disruptions to oil & gas production
- ► Transportation Delays
 - ► March 2021 Ship stuck in Suez Canal for 6 days => months of supply chain disruption
 - ► Labor volatility affects trucking industry => increased ground transport timelines
- ▶ Feb 2022 Russia invades Ukraine

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Market Update

Current Hot Supply Chain Challenges + Lead Time from Approved Submittals

- Galvanized misc. metals -> 8 weeks from field measure
- ▶ Hollow Metal Frames -> 10 weeks
- ▶ Wood Doors -> 18-20 weeks
- ► Acrovyn Doors -> 26 weeks
- ▶ Overhead Doors (powder coat) 7+ months
- ► Curtainwall Frames/covers -> 16+ weeks
- ► Terrazzo Epoxy 7-8 weeks (typically 3 weeks)

- Roof insulation, poly-iso -> 6 months, and improving.
- Kynar custom color on metal panel -> 6 weeks for SAMPLE
- ▶ Metal Panel, standard color -> 12+ weeks
- ▶ Metal Lockers -> Up to 6 months
- ► Elevators 5+ months

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Market Update

Current Hot Supply Chain Challenges + Lead Time from Approved Submittals

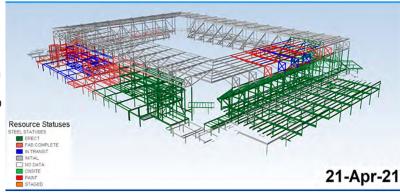
- ► Custom AHU's -> 50 weeks
- ► Flat panel radiators -> 24+ weeks
- ▶ VFD's -> 45 50 weeks and climbing
- ▶ VRF's -> up to 48 weeks
- ► Heat Exchangers > 34 weeks
- ► Controls Valves & Actuators -> 16 weeks
- ► Electrical Transformers -> 44 weeks, and falling
- Electrical Switchgear -> 40 60 weeks, depend on size
- ► Generators over 125kW -> 1 year +
- Networking Equipment (circuits, switches) -> up to 400 days
- Card Readers & Control Boards -> 8-40+ weeks, depending on type
- ► Multi-sensor Security Cameras -> 12+ weeks
- ► IP Cameras -> 1 YEAR
- ▶ Fire Alarm Devices & Panels -> 2-5 months, depending on type

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>>> Cutting Edge Strategy

GEODIS Park - MLS Stadium in Nashville

- ▶ RFID tagging on structural steel elements
- ➤ Tracked status of each piece from fabrication through erection
- ▶ Direct updates to the Synchro 4D model when pieces are scanned as they are installed



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>>> Fairview Community Health & Wellness Hub

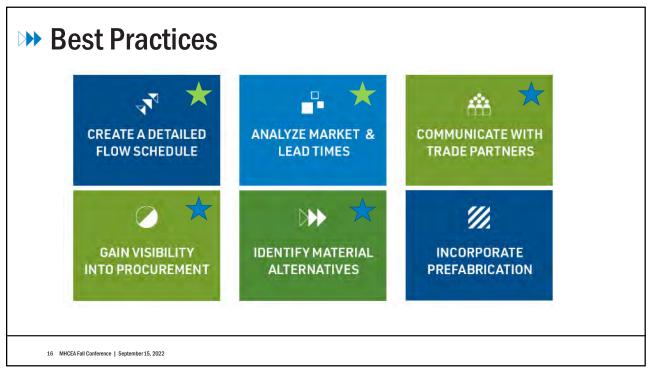
A new model for healthcare

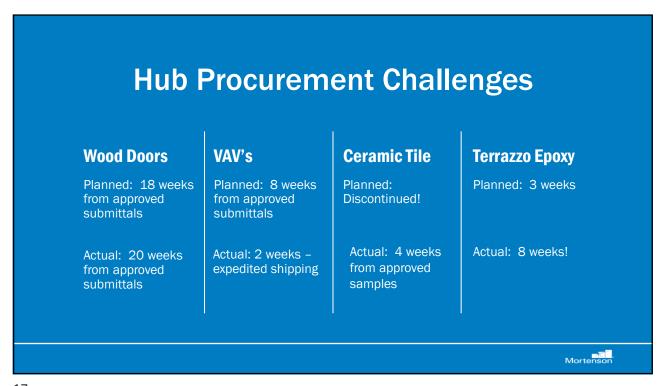
- ➤ Focused on Community Needs home to Ebenezer adult day program, Fairview Frontiers research, mental health clinic and Center for Community Health Equity
- ➤ Providing Affordable Care partnerships with Minnesota Community Care
- ➤ Addressing Social Risk Factors food access through partnerships with The Senneh Foundation and Second Harvest Heartland

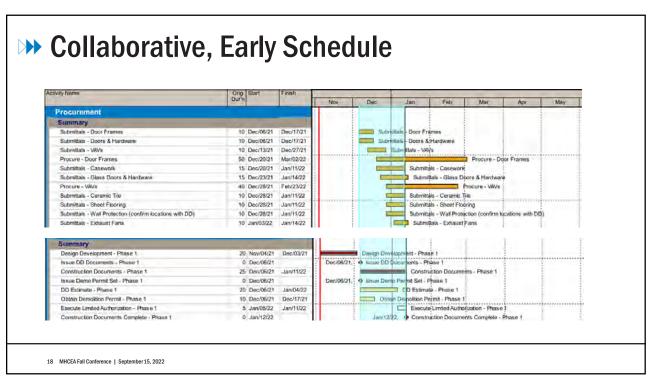


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>>> Strategies for Fairview Hub

Eliminated Schematic Design

- ▶ Rapid design timeline was needed to meet the July 1 completion goal.
- ▶ Conceptual budgets established early using historical data.
- ▶ Contractor full engagement in design meetings to keep scope in alignment with budget.

Material Availability Dialogue during Design

▶ Trade partners flagged that the building standard ceramic tile was discontinued during procurement conversations. Alternate product identified before CD document issuance.

Established GMP at Design Development

- ▶ Optimized timing for authorizing subcontracts validate DD budget in lieu of all new bids.
- ▶ Allowances and contingency deployed to fill known gaps in documents at DD

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>>> Strategies for Fairview Hub

Doors & Hardware Concurrent Submittals

- ▶ Early engagement with supplier leverage existing partnerships with facility manager
- ➤ Concurrent hardware schedule creation with final CD design timeline saved 8 weeks over tradition project schedule

Early Mechanical & Electrical Partner Selection

➤ Selection at DD to allow for long lead item submittal timelines to start early: VAV's, light fixtures, exhaust fans.

Terrazzo Epoxy - The Last-Minute Challenge

▶ Epoxy material which typically runs 3 weeks was running long at 8 weeks - 90% of this product is produced in the Ukraine – unexpected curve ball late in the project.

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