BUILDING
WHAT’S NEXT
IT IS ALL ABOUT
OUR RELATIONSHIPS

Regional Offices

- Seattle, WA
- Portland, OR
- Phoenix, AZ
- Denver, CO
- Iowa City, IA
- Minneapolis, MN
- Madison, WI
- Milwaukee, WI
- Chicago, IL
- San Antonio, TX

- RENEWABLE ENERGY
- HEALTHCARE
- HIGHER EDUCATION
- FEDERAL GOVERNMENT
- CIVIC/MUNICIPAL
- TRANSPORTATION/INFRASTRUCTURE
- CORPORATE
- HOSPITALITY
- LABORATORY & LIFE SCIENCES
- DATA CENTERS
All Local Team AND...

- **Target Field**, Minneapolis, MN
- **TCF Bank Stadium**, Minneapolis, MN
- **Xcel Energy Center**, St. Paul, MN
- **Target Center**, Minneapolis, MN
... National Sports Builder

KFC YUM! Center, Louisville, KY

Coors Field, Denver, CO

FedExForum, Memphis, TN

Sprint Center, Kansas City, MO
Start Date: December 3, 2013
Substantial Completion Date: July 29, 2016
Construction Value: $847.6 Million
Architect/Engineer: HKS Architects / Thornton Tomasetti
Customer: Minnesota Sports Facilities Authority
• Home to the Minnesota Vikings

• 1.7 million square feet

• 65,000 seats; up to 125 suites; 7,500 club seats

• Largest clear ETFE roof in North America – 5.7 ac. (248,000 sf)

• 5 Operable Doors – Each is 55’ wide and ranging from 95’ high to 78’ high

• Venue for a broad range of civic, community, athletic, and cultural activities
U.S. BANK STADIUM
U.S. BANK STADIUM
PROJECT OVERVIEW
Schedule Milestones

• Groundbreaking Ceremony: Dec 3, 2013
• Excavation: Nov 2013 - April 2014
• Tower Cranes Erected (5): Jan – June 2014
• Demolish Metrodome: Jan - April 2014
• Concrete Foundations & Structure: Jan 2014 - June 2015
• Structural Steel Erection: Aug 2014 – Oct 2015
• Enclosure: Nov 2014 – Dec 2015
• ETFE Installation: May 2015 – Nov 2015
• Substantial Completion: July 29, 2016
BEDROCK CHALLENGES

DEEP UNDERGROUND
WATER TABLE LEVEL

DEEP UNDERGROUND
- 3 Xcel Energy Electrical Feeds –
  - 2 feeds from Elliott Park and 1 from 5th Street Substations
Seven 13.8kv double-ended substations located throughout the building

- Substation in each quad (4)
- One on each end zone (2)
- One for the central plant (1)
Generators

- Two 2 megawatt emergency system generators
- First new stadium with LED sports lighting
- DMX controlled
- Instant on, dimmable and color tuning
- 85% LED fixtures for general architectural lighting
BUILDING LIGHTING
APRIL 2014 – East Buttress Column
JULY 2014 – D-Mag Crane Mobilization
Snow Catchment Basin

- Designed for 100 year event
- Deepest section: 40+ feet
- Steepest Slope: 45 degrees
- Combination of concrete and metal decking wearing surfaces
- Heated concrete topping slab
• Largest pivoting doors in the world
• Five doors spanning from 95’ tall to 75’ tall by 55’ wide
• Operated by (30) hydraulic rams – (6) rams on each door
US BANK STADIUM CURRENT STATUS

- Project Is Nearly 80% Complete
- Roughly $679M of Work Installed to Date
- Over 2.3 Million Craft Worker Hours

- 1400+/- Men & Women Working On Site Daily
  - 4% Veteran Workers
  - 37% Minority Workers – Goal 32%
  - 9% Female Workers – Goal 6%

- Targeted Businesses
  - 17% WBE – Goal 11%
  - 12% MBE – Goal 9%
  - 33 MBE Firms Awarded Contracts
  - 55 WBE Firms Awarded Contracts
  - 228 MN Based Firms Awarded Work
QUESTIONS