The Long Baseline Neutrino Facility (LBNF): Community Meeting LBNF FSCF Construction Status

October 21, 2019









KAJV Work

KAJV Ross Field Office at Houston and Mill St. – "Wedge"



Average Staff on Site

KAJV Personnel On-Site	
KAJV Staff	32
KAJV Craft	22
Muth	4
UGG	7
Decker	4
Horsley	4
ATC	3
RCS	4
Misc	7
Paramedics	3
Total	90

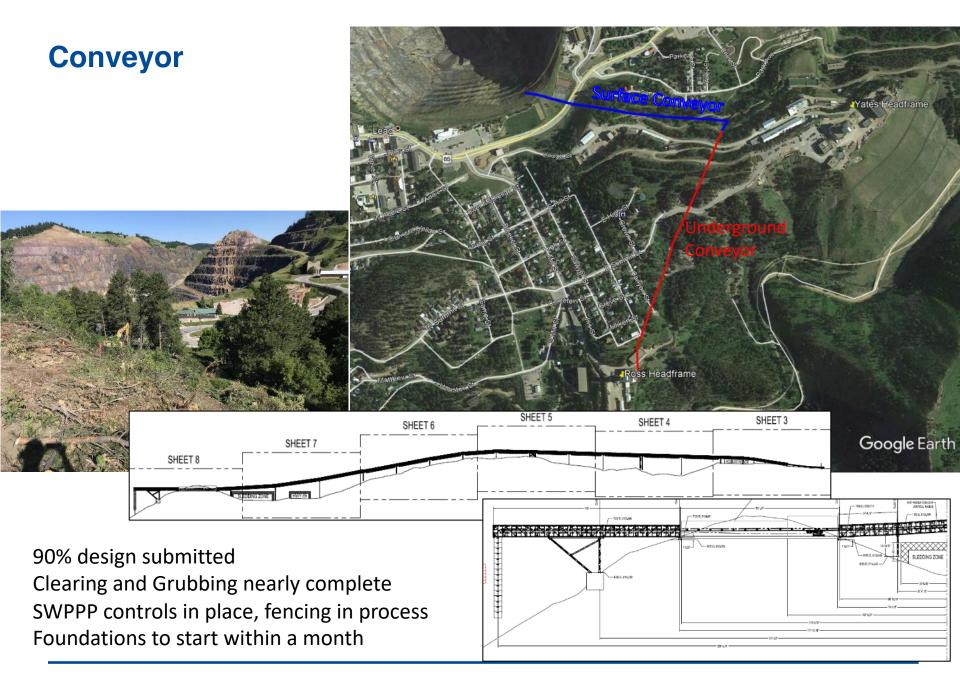
- LBNF dedicated on site team is at 12, planning to add one more construction coordinator
- Typically 1-3 Fermi based staff (project management, QC, ESH) on site any given week
- SDSD has 4 on site now
- Near term: Harrison-Western, Superior Crane, Robbins (conveyor)

Tramway

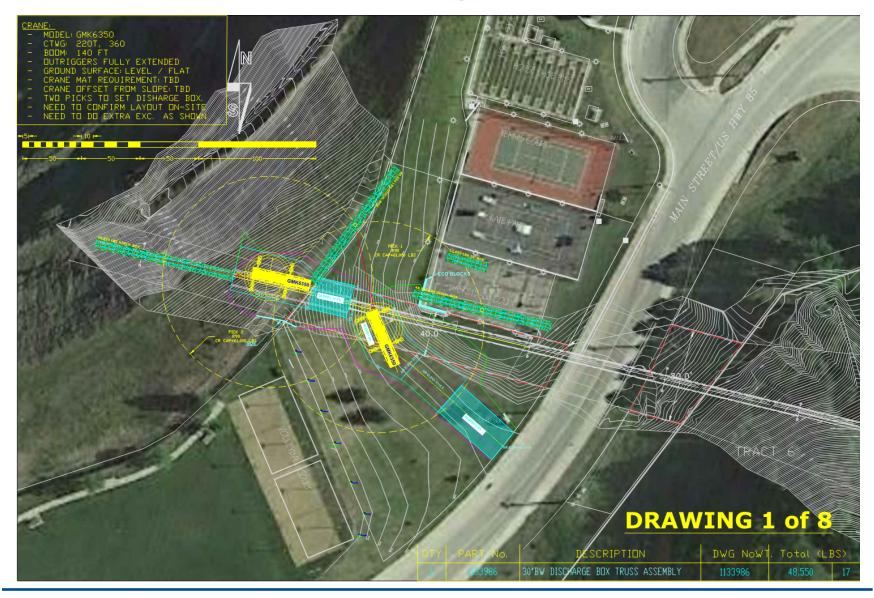




Ground support complete except at loading area ~73% complete overall (portals and shed are substantial remaining effort)



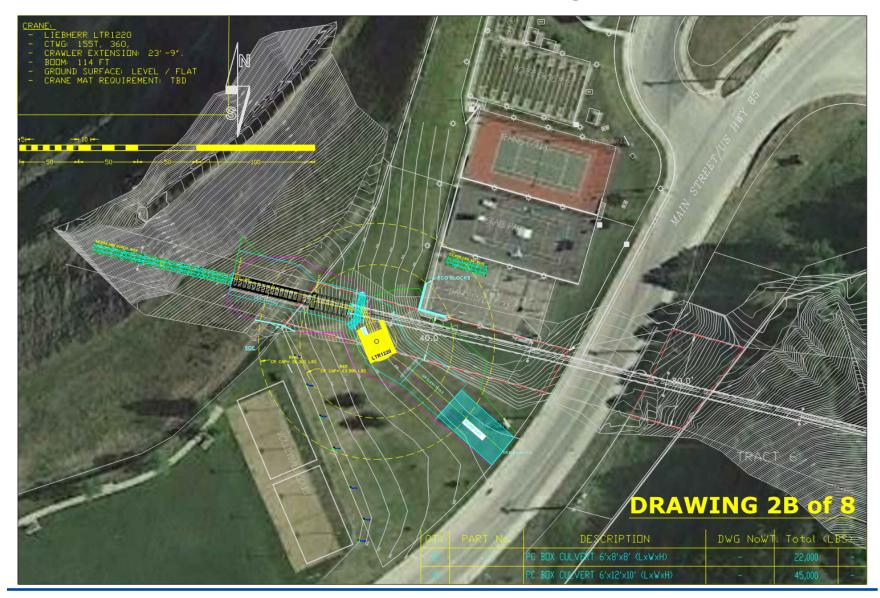
Initial Truss Installation – Near Open Pit



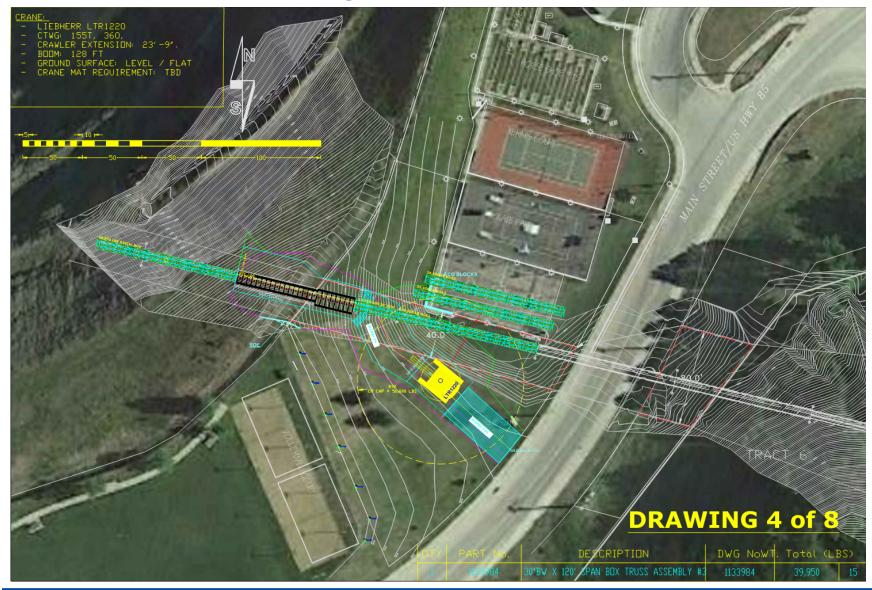
Liebherr LTR 1220 Hydraulic Crane



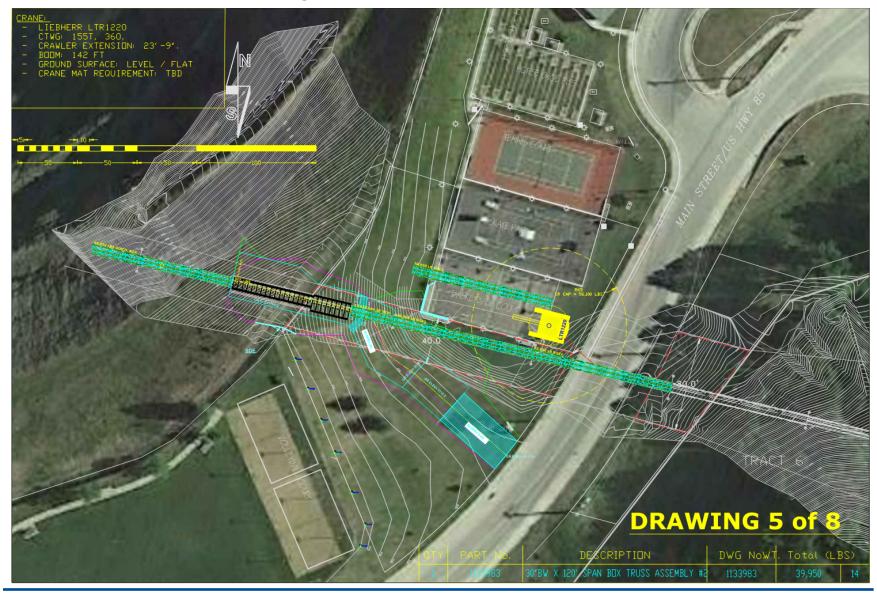
Truss & Box Culvert Installation – Through Berm



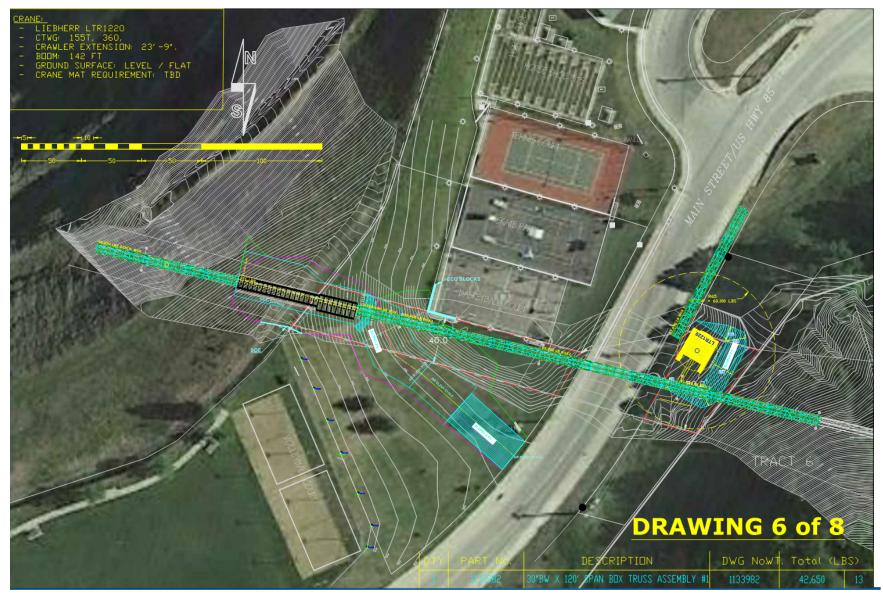
Arial Truss Section Along Court



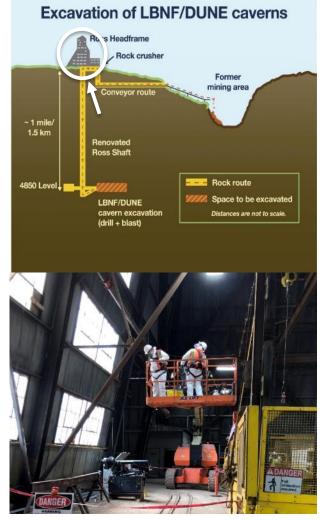
Box Section Over Hwy 85

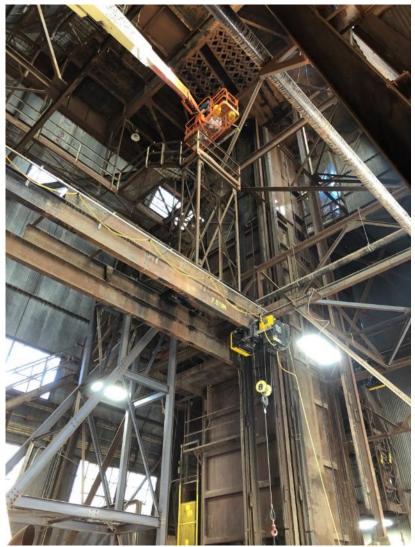


Hwy 85 Crossing – South Side Moving Up Slope



Headframe Abatement and Reinforcement





Phase 1 complete, allowing access from the surface

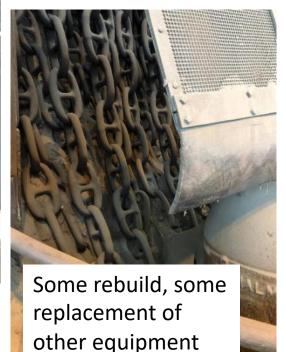
~60% complete overall, will be done except for T1 truss around Thanksgiving

Crushers









Phase 1 Site investigation complete

Phase 2 (actual work) scheduled to begin in December

Crusher building roof structural reinforcement work started early Oct with lead paint abatement

Surface Electrical



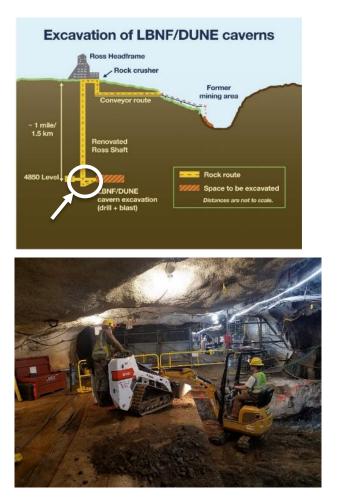
Duct Bank installed from substation to near headframe Keeping up with other work

Ross Shaft



Preparing to install final steel set (Set 305)

Ore Pass









the way

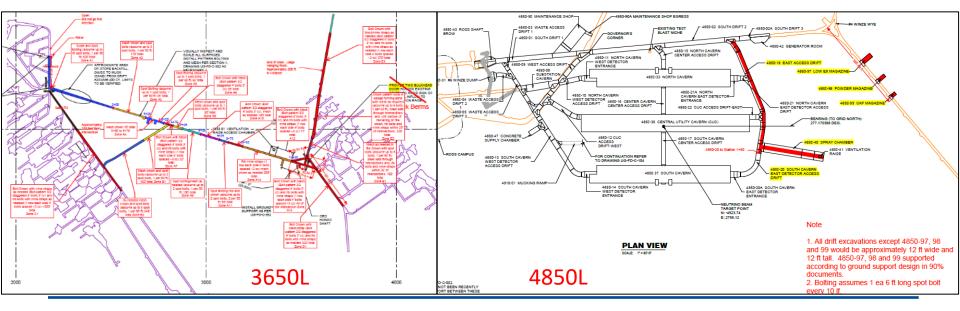
~53' (of ~120') muck removed below the 4850L in main raise ~25' below 4850L in #6 winze side ~70% complete overall

Upcoming KAJV work (next 3-4 months)

- Skip loader rebuild will follow Set 305 and ore pass work, planned to begin in late November
- Crusher physical demo and rebuild work to begin in December
- Crusher roof starting now
- Conveyor foundation work planned to start in November
- Snow Removal.....

Value Engineering Recently Negotiated Accelerate selected scope EXC (1B) to Pre-excavation (1A)

- Ventilation is driving start of EXC. By performing a subset of work during 1A, there is opportunity to reduce overall schedule several months
- Includes installation of blast doors, preparation of 3650L for raise bore machine, installation of a 350 Hp fan at the 4700L, and excavation of path to bottom of raise bore at 4850L



Status of future work

- Pre-solicitation for excavation sub-subcontractor was advertised 8/20. An outreach meeting was held at the Sanford Lab Homestake Visitor Center 9/11
- Official RFP was advertised October 1.
- Pre-bid meeting planning for 11/13
- Proposals due in January
- Plan to award mid-year and mobilize in late 2020.
- Excavation takes a couple of years, so BSI work won't be solicited for a while.

Questions?

