

Long-Baseline Neutrino Facility (LBNF) / Deep Underground Neutrino Experiment (DUNE) - US

LBNF/DUNE-US FDC Scaffolding Services Task Order #2 Statement of Work (SOW)

August 3, 2026

Document Approvals

Signatures Required	Signature & Date Approved
Originator: Dale Barker, Installation Schedule Manager	Dale Barker Digitally signed by Dale Barker Date: 2026.09.08 08:14:10 +06'00'

Revision History

This document can be identified by the revision date as indicated in the Version Control Table below.

Author	Revision Date	Description of Changes
Shawn Carmichael	August 3, 2026	Original

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Acronyms and Abbreviations

Acronym	Definition
DUNE	Deep Underground Neutrino Experiment
LBNF	Long Baseline Neutrino Facility
SURF	Sanford Underground Research Facility
FFDG	Fermi Forward Discovery Group, LLC
FDC	Far Detector & Cryogenics

1 Introduction

1.1 Purpose of SOW

The objective of this Statement of Work (SOW) is to detail the technical requirements relating to Task Order #2 against the scaffolding services IDIQ subcontract 382472-BM. This work will be conducted underground at the 4850' and 4910' level of the SURF site. The work will be performed at the SURF site, located in Lead South Dakota.

1.2 Assumptions

The Subcontractor shall be responsible to the Laboratory for the acts and omissions of their employees, agents or sub-tier Subcontractors.

The SURF site location is 100 Ross Rd, Lead SD 57754.

FFDG reserves the right to make minor, non-structural changes to the scaffolding when operational need dictates. Any minor changes shall be made by an FFDG Competent Person with prior coordination and communication with the Subcontractor.

1.3 Timeline

A kickoff meeting shall be scheduled at a mutually agreed upon date, time, and location as soon as practical after award of the Task Order. The primary purpose for this meeting is to confirm that the project participants understand the SOW, the specifications and drawings, the safety and the quality assurance requirements, and the work activities involved with each task.

2 Applicable Documents

Applicable documents for a specific task order, as provided by FFDG, will be provided with the Task Order against this IDIQ subcontract and shall include:

- Number of scaffold sections (units) being ordered
- Specific location
- Anticipated rental period
- Any relevant drawings or designs

3 SOW Performance Requirements

The Subcontractor shall provide all labor, supervision, materials, tools, equipment and transportation necessary to provide the design, rental, delivery, installation and removal of the scaffolding associated

with this Task Order. All work shall be performed in accordance with applicable federal, state and local laws, and regulations, including those governing the requirements listed in this Statement of Work (SOW).

4 Required Tasks

4.1 Schedule

Task Order #2 scaffolding shall be required for five months, with an estimated installation date of January 1, 2027, and an estimated removal date of June 1, 2027.

Specific schedules for this Task Order shall be coordinated directly between the Subcontractor and FFDG Technical Representative.

4.2 Task 4: Task Order #2 - Scaffold Services

The Subcontractor providing the scaffolding shall be required to deliver, install and remove scaffolding as requested by FFDG and comply with all requirements in IDIQ subcontract #382472-BM. Listed below are the steps and considerations relating to the FFDG scaffolding requirements for Task Order #2.

Scaffolding Size and Type

Location 1 – Cryogenic Walking/Working Platform

- **Length:** 195 - 205 ft
- **Width:** 6 - 8 ft to accommodate technician traffic and task workspace.
- Final platform width shall be determined by the subcontractor to meet cantilever requirements and anchorage to the top of the cryogenics steel structure. All designs must include subcontractor engineering approval and a certified engineering stamp, followed by Fermilab approval.
- Platform design must account for the future installation of Location 2 below, which will be positioned on top of this structure to support mezzanine and overhead hardware installation.
- All scaffolding must include standard, compliant safety railing.

Location 2 – Mezzanine Steel Installation Platform

- **Length:** 195 - 205 ft
- **Width:** 4 ft; subcontractor to determine total width required to meet cantilever design requirements on Location 1. Subcontractor engineering-stamped approval and Fermilab approval are required before installation.
- **Height:** 2 - 3 ft (final dimension subject to engineering approval) to facilitate mezzanine steel installation.
- Platform design must consider the installation of Location 3, which will be placed on top of this platform during overhead work.

- All scaffolding must include standard, compliant safety railing.

Location 3 – Pipe Hanger Installation Platform

- **Length:** 30 - 40 ft, modular design allowing relocation along the full length of the cryogenic chamber during installation.
- **Width:** 4 ft; platform to be installed on top of Location 2. Subcontractor to determine total width required to meet cantilever design requirements originating from Location 1. Engineering-stamped approval and Fermilab approval required before installation.
- **Height:** 10 ft above Location 2 (total height of 12 ft above cryogenic steel). Special consideration needs to account for technician working area and traffic under this platform.
- All scaffolding must include standard, compliant safety railing.

Location 4 – Mezzanine Steel Installation Sled System (Quantity: 2)

- **Length:** 18 - 20 ft, modular sled-style design allowing movement along the cryogenic chamber during installation.
- **Width:** 4 - 5 ft
- **Height:** 2 - 3 ft elevated steps to support mezzanine steel installation activities.
- All scaffolding must include standard, compliant safety railing.
- Sled systems shall be capable of anchoring securely to the top of the cryogenic steel beams.

General Location

- Installation at the 4850 & 4910 ft level in the South Cavern.

Engineering/Design

- Subcontractor shall provide stamped engineering designs, detailing installation locations and any special considerations. Fermilab will need to review & approve subcontractors' engineering designs prior to installation of any scaffolding.

5 Deliverables

5.1 Subcontractor's Deliverables

The Subcontractor shall provide the following deliverables in accordance with the format for documents deliverables provided in Section 5.2. The Subcontractor shall prepare, submit and maintain the following documentation

Formal documentation consisting of:

- Scaffolding Details and Price Proposal
- Stamped Scaffolding Design Drawings
- Delivery, Installation and Removal Schedule/Timeline

- Qualified Lead Contact and Team

Technical Documents consisting of:

- Required ESH documents
- QC Documents
- Technical Requirements
- Assignment of specific ID# for each scaffold and entry into the scaffolding location log

The Subcontractor shall submit the following documentation for FFDG for review and approval. All deliverables shall be submitted in accordance with the approved project schedule, unless otherwise directed by FFDG.

Modified scaffolding shall require a new entry and ID within the Scaffold Location/Detail Log. The log will be reviewed and approved by FFDG Technical Representative or designee. The Scaffold Location/Detail Log shall accompany the Subcontractor's submitted invoice and shall serve as the backing documentation for all Subcontractor charges.

5.2 Format for Documentation and Deliverables

Electronic distribution utilizing Procore, FFDG's cloud-based management system, will be the standard method of transmitting all documentation/deliverables. All contract documents are to be identified by Task Order number and provided in a searchable PDF format. Alternate formats may be provided, only with prior approval from the FFDG Technical Representative.

Oral presentations, if requested, shall use PowerPoint software.

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