



CUI

# 5<sup>th</sup> Civil Engineer Squadron



## Minot AFB Current & Future Construction



Controlled by: 5 CES  
CUI Category: OPSEC  
Distribution/Dissemination Control: FEDCON  
POC: 723-1969



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# <sup>CUI</sup> Minot AFB



## Operational Snapshot

- **Minot AFB, North Dakota**
  - **Population: 12K**
- **Dual-wing installation both supported by 5 CES : “2 Legs of the Nuclear Triad”**
  - **5 BW: B-52 Bomber Fleet**
  - **91 MW: ICBM Minuteman III**
- **Total current/future construction: \$253M**
  - **Current: \$113M**
  - **Future: \$140M**
- **Execution Hurdles**
  - **Bid climate**
  - **Harsh environment**

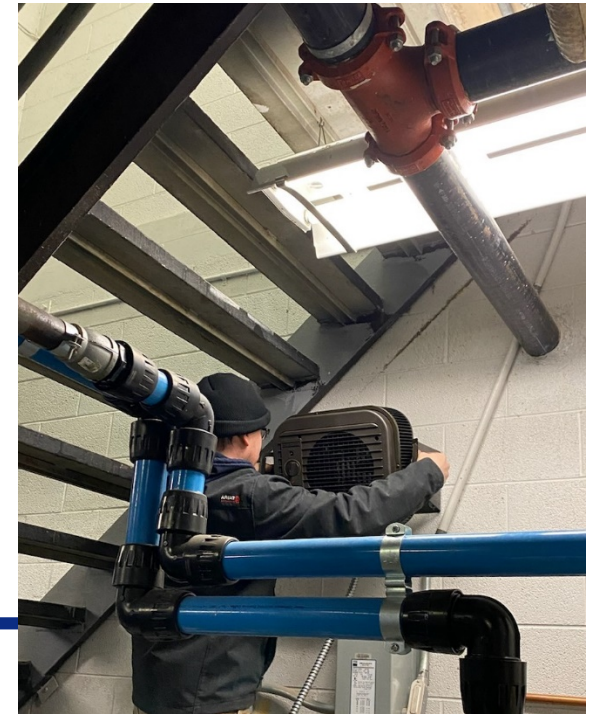




# CUI *Climate*



- 28 Days Below Zero
- Coldest Day: -36F/Wind Chill -45F
- 100+ No heat Calls
- 25+ Bldgs w/frozen water lines





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# Propane Air Mixing Plant



- Propane Air Mixing Plant (PAMP)
- Joint Venture, Montana Dakota Utilities (MDU), 5th Contracting Squadron and 5th Civil Engineer Squadron
- \$800k system update 2019
- \$20k PLC repair 2021
- New Contract Oct 2021, \$360k/year maint./upgrades
- Updated software, improved reliability over wide conditions
- Last successful run 20/May/2021



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# ***5th Civil Engineer Squadron***

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## ***Current Construction Highlights***

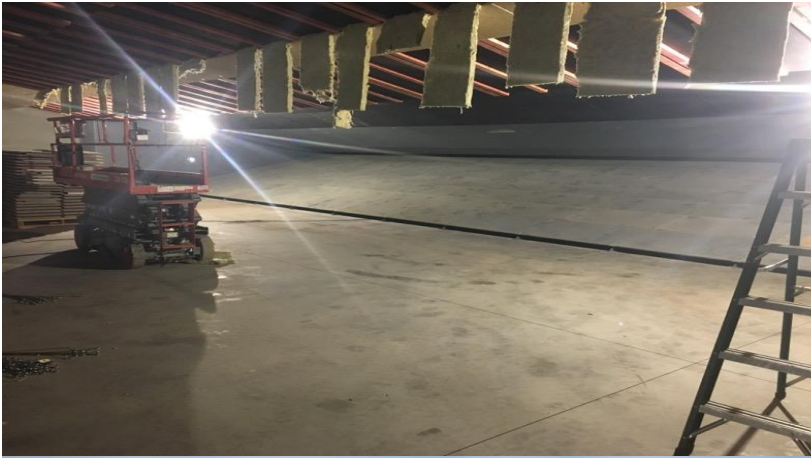
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# Indoor Firing Range



**Cost: \$24M (MILCON)**

**Execution Agent: USACE**

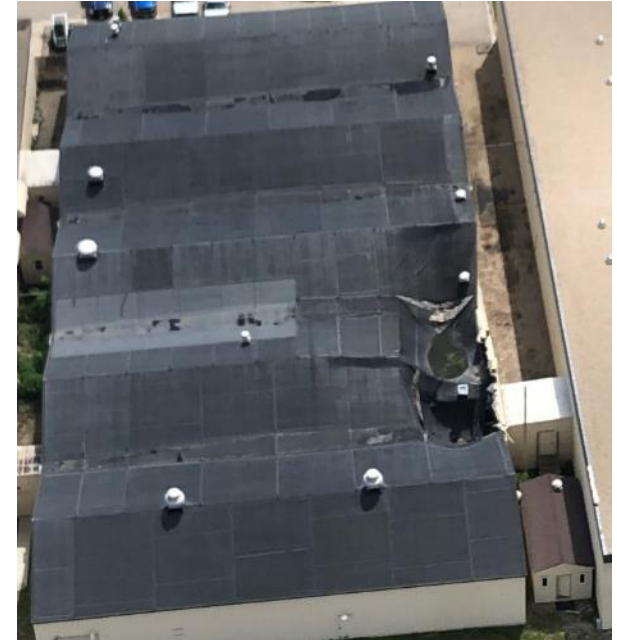
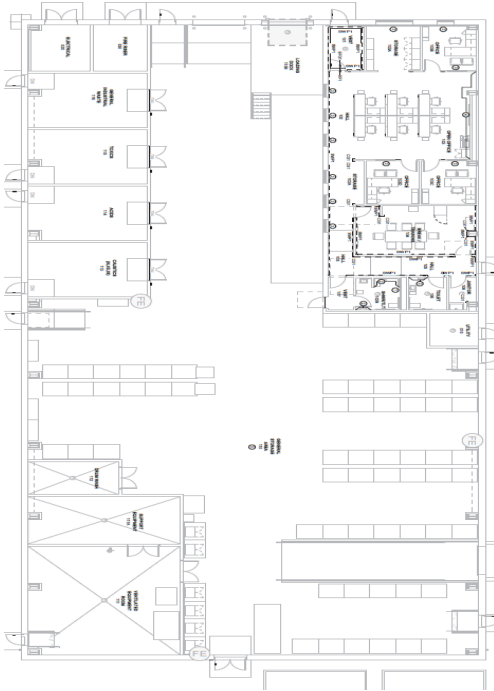
**Description: Construct indoor firing range to support small and heavy arms training.**

**Status: ECD - Aug 2021**

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# CUI HAZMART



**Cost: \$10M (UMMC)**

**Execution Agent: USACE**

**Description: Design/build project for complete demolition and reconstruction of hazardous material/waste facility.**

**Status: Award - Sep 2020; ECD - Mar 2022**

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# Mass Parking Apron



**Cost: 7 Phases/\$100M; Phase 4 FY21/\$20-25M (CTO)**

**Execution Agent: USACE**

**Description: Replace 60 year old original concrete B-52 parking apron.**

**Status: Phases 1/2/3 - Complete; Phase 4 - Awarded; ECD - Fall 2021**

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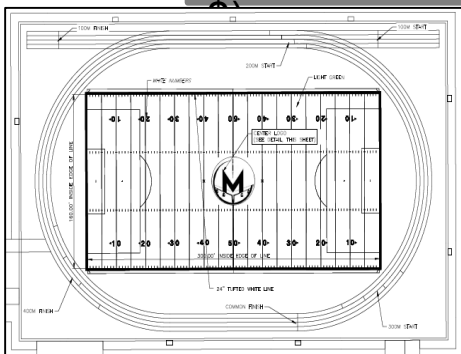




# Bubble / Track

## COST:

- 1) Track, turf, & foundation - ~\$2.3M (Decentralized trade space)
- 2) Air Inflated Field Cover - \$1M-\$3M (AFGSC 3080 fund – equipment)



## DESCRIPTION:

- 1) Replace existing asphalt track & dirt infield with a rubberized 300M track, blue synthetic turf, and foundation for air inflated cover
- 2) Equipment purchase of an air inflated cover “Bubble” for all weather physical training.
  - **20yr life-span**
  - **Year-Round usage**
  - **Climate controlled**
  - **Low Mx/high durability (bubble)**



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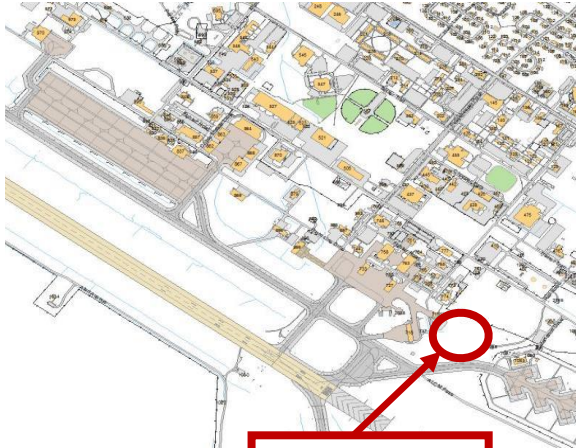
## *Future Construction Highlights*

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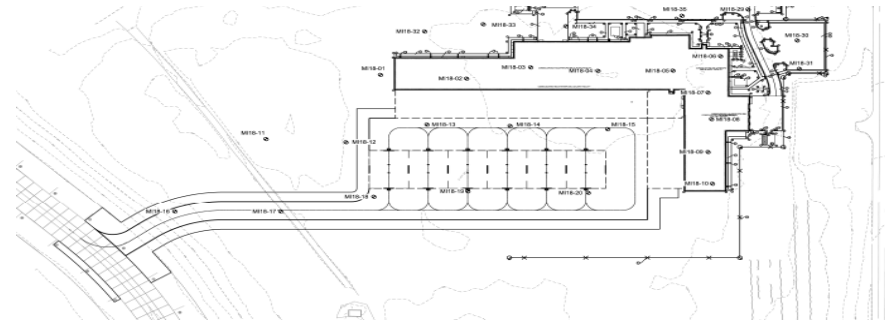
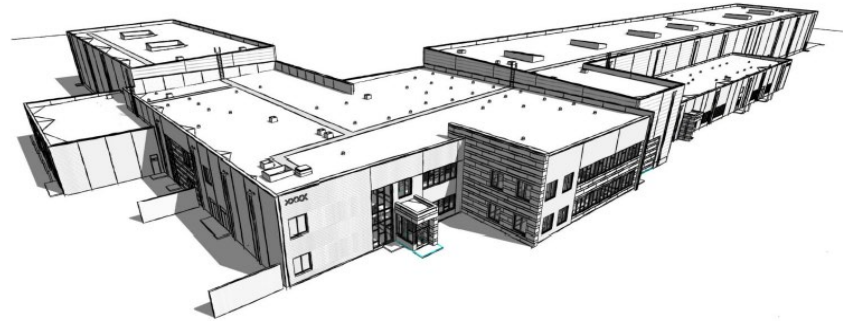
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# Helicopter Operations and Tactical Response Force



**HELO  
OPS/TRF  
FACILITY**



**Cost: \$80-90M (MILCON)**

**Execution Agent: USACE**

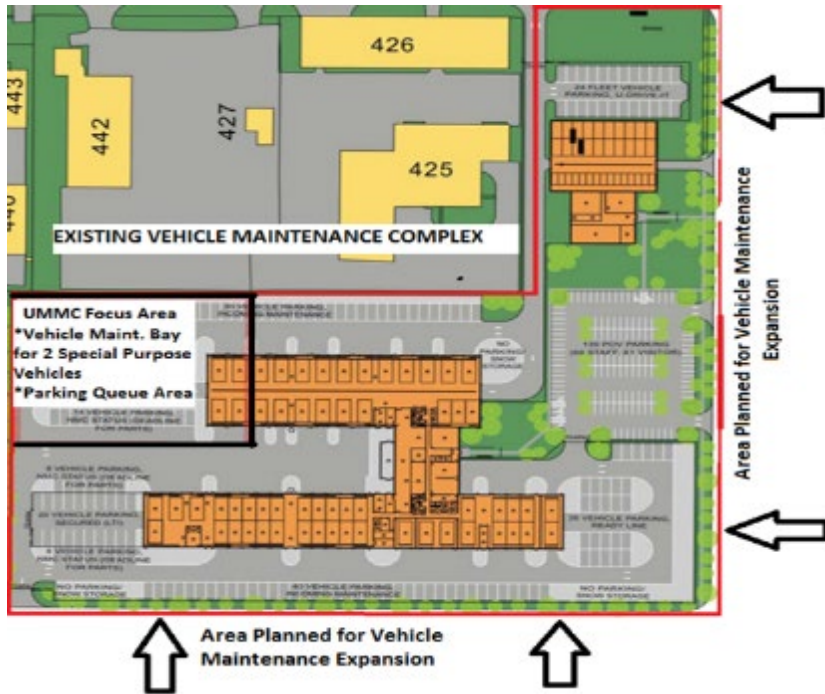
**Description: Construct 9-bay facility to house 54 HS new MH-139A Grey Wolf helicopters and 91 SFG tactical response force**

**Status: In Solicitation; Est Award - Summer 2021**

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# Special Vehicle Maintenance



**Cost: \$1-5M (UMMC)**

**Execution Agent: USACE**

**Description: Construct pull through vehicle maintenance facility to service Joint Land Tactical Vehicles**

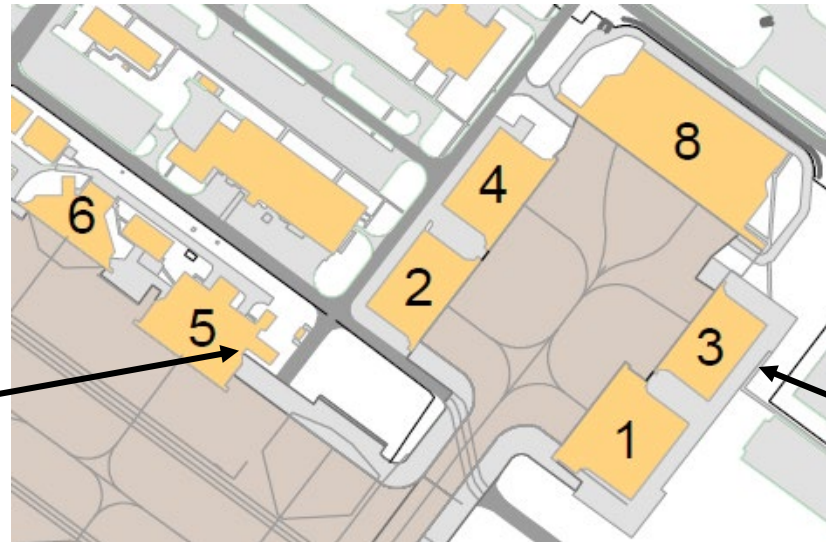
**Status: Est Award – Jun 2021**

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# B-52 Maintenance Docks



Dock 5: \$7.7M  
ECD: Aug 2022

Dock 3: \$21.8M  
ECD: Aug 2022

**Execution Agent: USACE**

**Description:**

**Dock 3- Renovating from General Maintenance into a Corrosion Control Hangar**

**Dock 5- Restoration and Modernization of existing facility**

**Status: Dock 3 – Awarded; Dock 5 – Awaiting funds**

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# Cyber Security (OT)



- Emerging threats
- Verendrye Electric Company – RansomWare



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**Engineers- Lead the Way!**

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