

STATEMENT OF WORK

1. General Information

a. Project Title:

- i. Repair Mover Target Sheds (Bldgs 8849, 8850 & 8851), Carmouche Range

b. Project Information:

- i. Schedule

Contract Period	360
Contractor's Project Walk	TBD
Proposal Due	TBD
Contract Start/Award Date	TBD
Construction Start Date	TBD
Construction Completion Date	TBD

- ii. Liquidate Damages

1. N/A

c. Document Level:

- i. Documents are approximately 35% design.

d. Bid Documents:

- i. Statement of Work
- ii. Architectural and Electrical Drawings
- iii. FM-144R (record of Environmental Consideration)

e. Options / Alternates

- i. N/A

f. Bidding Questions

- i. All questions should be submitted in written form either by hand delivered hard copies, facsimile (fax) or electronic mail (e-mail). The Contracting Officer (KO / COR) shall determine the final date for submission of questions.

2. General Requirements

a. Project Description:

i. General Information

1. The Design, Work/Construction contract requirements are described herein this Statement of Work (SOW) and on the drawings, specifications (as provided, or per the guide specification), and FM-144R prepared by The Directorate of Public Works (DPW) which is conveyed as a 35% design.
2. In addition to the SOW, Drawings, Specifications, FM-144R, the contractor shall use when asked to provide 100% designs the resources located on the Whole Building Design Guide website and the Fort Benning – Installation Design Guide dated August 2010. Available from DPW upon request.
3. The SOW, drawings, and specifications may not identify all procedures (means and methods) or requirements necessary to accomplish the work. The contractor is expected to follow industry standards or manufactures instructions/recommendations.
4. The contractor shall provide all required supervision, labor, materials, and equipment to complete the work.
5. The superintendent shall be an individual with a minimum 5 years of experience with jobs of similar type and size. Provide resume of job site supervisors and key personnel. The superintendent shall be on the job site when work is being performed and will be available to the Government representatives.

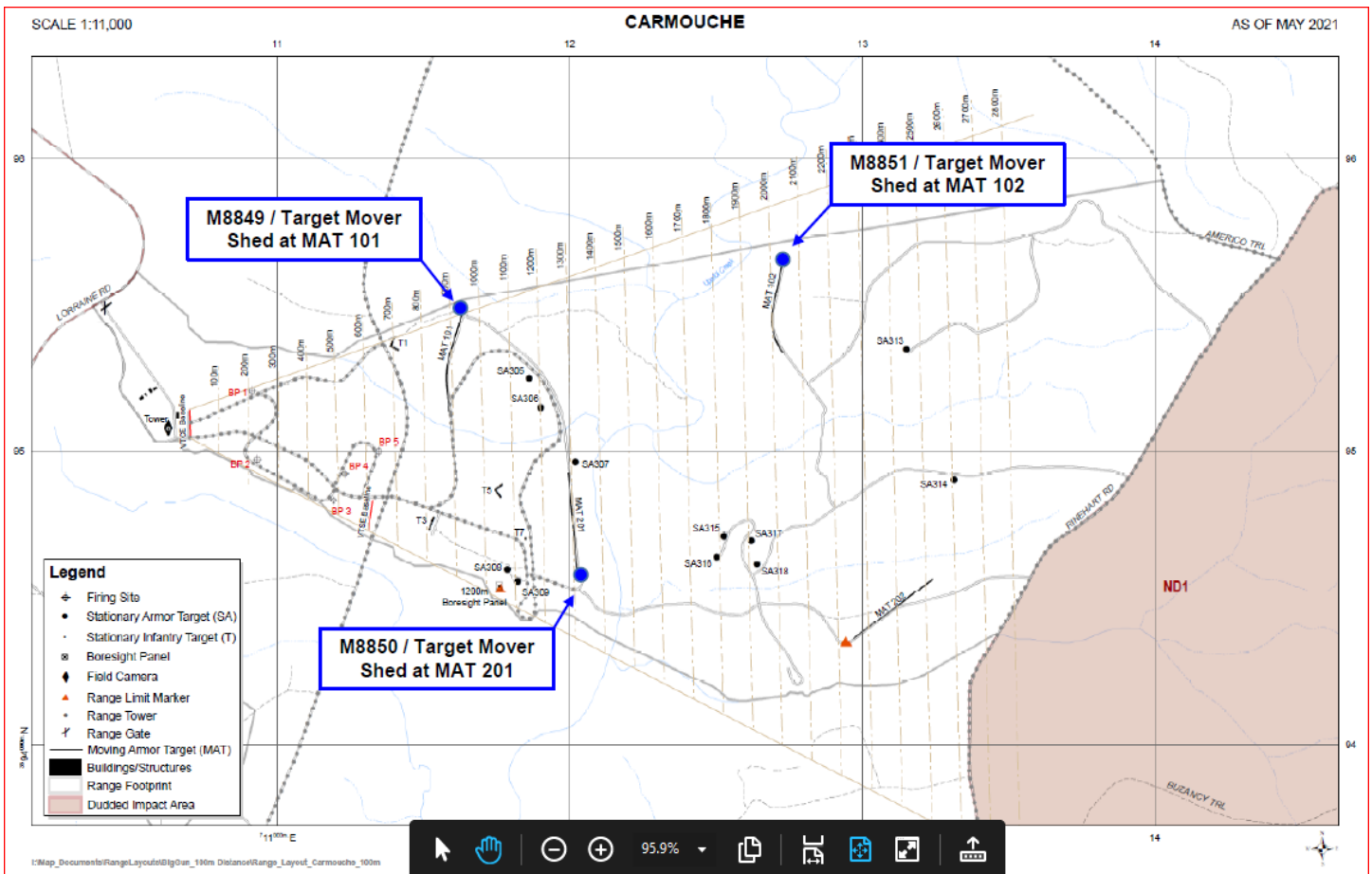
ii. General Description

1. Refurbishing two down-range mover target sheds (M8849 and M8850) for Carmouche Range. There are several items required to meet the requirements of providing a functioning shed for storing sophisticated targetry. Civil site work and brush/small caliber tree removal will be performed to enhance the drainage requirements and include downspout requirements to divert water away from the foundations. Roof and siding replacement will extend the life of each shed and eliminate the water intrusion. Electrical work is required to meet power requirement for supporting the targetry and other electrical devices. ***Each building shed will have its very own specific work based on scope and location (see map on page 3).*** Providing these upgrades will support the mission of Fort Benning. This construction schedule for

Buildings 8849 and 8850 do not have any specific scheduling requirements and can be performed within the contract period.

2. The construction schedule for down-range mover target shed 8851 only consists of electrical work required to meet power requirements for supporting the targetry and other electrical devices.
 - a. The contractor will have 90 non-consecutive workdays (including weekdays, weekends, and holidays) during a 365-day period of performance (PoP). The specific days the contractor will have access to the work site will be confirmed 35 weeks in advance (5 months) and thereafter on a rolling basis at the end of each week. For example, if PoP is 1 SEP 24 through 31 AUG 25, then contractor will know the exact dates starting 1 SEP 24 through 31 JAN 25 (equal 5 months); and one week later (on 8 SEP 24), they will know the work site dates through 7 FEB 25, and so on.

3. Map of down-range mover sheds:



b. General Execution Requirements:

- i. The Work shall be performed in accordance with the approved A/E firm's drawings and specifications, approved construction submittals, and based on the Directorate of Public Works (DPW) drawings, specifications, and SOW.
- ii. All work shall be performed per industry standards or to meet federal, state, or local codes and regulation. Work will not be sloppy or carelessly performed.

c. Design and Engineering:

i. General

1. Fort Benning's Directorate of Public Works (DPW) Engineering Division will provide the Contractor a set of 35% construction drawings, specifications, and a SOW. The provided 35% drawings, specifications, and statement of work only convey the Government's concept / intent of the project. It is the Contractor and Architectural and Engineering (A/E) firm's responsibility to provide items listed in section ii, subsection 1, 100% submittal. *The term A/E encompasses the services of design disciplines in the field of architecture, mechanical, electrical, plumbing, and structural engineering.* Once the 100% submittal has been approved by the Government, work may begin. If the contractor is provided written approval prior to the start of the work, the contractor may not be required to provide a 100% submittal. The items listed below will be used as a guide for the Contractor and A/E in items that may be needed in the 100% submittal.

a. DRAWINGS

- i. The A/E firm, including structural, shall update, provide additional information, and add drawings as required to take the 35% drawings provided by the Government to a 100% set of drawings. *The "For Construction" 100% set of drawings shall be stamped and signed by the A/E on each drawing sheet.* Below is a list of drawings that may need to be provided to accomplish a 100% drawing set:

1. All disciplines: completed plans (site and floor), elevations (interior and exterior), sections (site, building and wall), enlarged plans, details (project specific and standard), schedules. *

*The items listed above may not address every drawing requirement for a project and is not intended to limit the number of drawings to be provided. Additionally the items listed above may not be required for every project. Contractor's submittals / shop drawings are not considered part of the 100% drawing set.

b. SPECIFICATIONS

- i. The Contractor and A/E shall provide any missing specifications for the project. Also, the Contractor and A/E shall update any specification that requires to be changed due to drawings or other specifications provided by the A/E.
- c. CALCULATIONS / PRODUCT INFORMATION
 - i. The Contractor and A/E shall provide all calculation and product information for the project when not provided in the Government provide information. Calculations and product information may be required for the following, but this list will not limit the requirements to: Civil, Structural, Architectural, Mechanical, and Electrical. Calculations and product information will be provided in an organized, logical, and understandable manner.
- d. COLOR BOARD, SAMPLES
 - i. Contractor and A/E shall provide a color board showing colors or materials selected by the contractor or A/E for the project. Color board will address all items (wall ceiling or trim paint, wood or concrete stain, base material or color, ceiling color or material, etc.) required for the project. Government approval is required prior to start of the work, unless written approval from the government is provided.
- e. CD
 - i. The contractor and A/E firm shall provide a CD with PDFs of the 100%; drawings, specifications, calculations and product information. Also, on the CD the contractor shall provide CAD files of the 100% drawings.
- 2. Upon completion of the work the contractor will provide As-Builts and Record Documents consisting of items listed under section ii, subsection 2, Record Document Submittal. The Record Document Submittal will reflect the final design of the facility at the completion of the work.*
 - a. AS-BUILTS
 - i. Contractor shall provide the government approved hard copy of the 100% drawings keep at the site. The hard copy from the site (As-Built) will show any changes or modifications made during construction. Changes or modifications will be marked in red on the hard copy.
 - b. DRAWINGS
 - i. The Contractor and A/E firm shall provide PDFs, hard copies, and CAD files of Record Documents drawings reflecting changes or modifications noted on

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the As-Builts. Any changes or modification will be clouded on the Record Documents drawings.

c. SPECIFICATIONS

- i. The contractor and A/E firm shall provide updated specifications addressing any changes or modifications made during construction.

d. CD

- i. The contractor and A/E firm shall provide a CD with PDFs of the Record Documents; drawings and specifications, and the As-Builts from the job site. Also on the CD the contractor and A/E firm will provide CAD files of the Record Document drawings.

*The contractor shall provide complete sets of drawings, specifications, and As-Builts, not just drawing sheets or specifications sections that have changed.

ii. Design and Engineering Submittal Requirements

1. 65%, 95% and 100% Submittals

Deliverables	To - DPW
Drawings (a.)	1 Full Size set and CAD Files on Disk
Specifications	1 Set and PDF's on disk
Calculation / Product Information	1
Color Board, Samples (b.)	1
CD with all 100% submittal Documentation*	1

*CD will include PDFs of all files (Drawings and Specifications) and CAD files of the Drawings (a.) Submittals provided via email will be acceptable IF the size of file(s) are not extremely large. 15MB or higher may not transfer.

(b.) Pictures of samples or colors are not acceptable. Submit actual product samples and colors from manufacturer/supplier.

2. Record Document Submittal

Deliverables	To - DPW
As-Built (Red Lined set from construction site)	1 set
Drawings (adjusted per As-Built)	1 Full Size and CAD Files
Specifications	1 Set
CD with all Record Document submittal Documentation*	1

*CD will include PDFs of all files (Drawings, Specifications, and As-Builts) and CAD files of the Drawings

- iii. *The contractor shall make sure all submittals are reviewed by the designer of record (DOR) prior to government acceptance via transmittal. Any submittal transmitted to the government without a DOR review and stamp/signature will be rejected/dis-approved.*
- iv. The contractor shall email or hand deliver all submittals to the contracting officer (MICC) designated for the project. DPW will not accept any submittals unless filtered through MICC first.
- v. The contractor shall submit a Construction Schedule that includes major benchmarks and milestones to provide knowledge of the project and objectives to be completed within the construction time scheduled. *The Construction Schedule shall be submitted to the Government within 5 (five) days of the notice to proceed for review. The contractor shall provide an update schedule if the original schedule is impacted for any reason or if requested by the Government.*
- vi. At the pre-construction meeting the contractor shall arrange to have a representative of the A/E firm to be present. At the meeting the A/E representative shall satisfy themselves with the requirements of the Design and Engineering submittals and the expectations of the Government.

d. Codes and Standards:

- i. All work shall be In Accordance With (IAW) all applicable Federal, State, and Local codes and standards including but not limited to:
 - 1. International Building Code (IBC)
 - 2. International Electrical Code
 - 3. International Fire Alarm/Protection Code
 - 4. International Mechanical Code
 - 5. International Plumbing Code
 - 6. Manual of Uniform Traffic control Devices (MUTCD)
 - 7. Fort Benning Installation Design Guide – Dated August 2010
 - 8. UFC 1-200-01, General Building Requirements, Change 2 (1 Nov 2018)
 - 9. UFC 1-300-08, Criteria for Transfer and Acceptance of Military Real Property
 - 10. UFC 3-560-01, Electrical Safety, O&M
 - 11. TM 111 Guidance provided in Fort Benning Environmental Considerations as listed on the projects FM-144R.

12. UFC 3-600-01 Fire Protection Engineering for Facilities, Change 4 (7 Feb 2020)

13. Fort Benning Fire Protection Supplement, Change 3 (1 Dec 2016)

e. Specifications:

- i. Refer to the Guide Specifications and the following specification prior to and during all phases of the work:
 - 1. 01 33 00 Submittal Procedures
 - 2. 01 35 26 Governmental Safety Requirements
 - 3. 01 45 00.00 10 Quality Control
 - 4. 01 57 20 00 10 Environmental Protection
 - 5. 01 74 19 Construction and Demolition Waste Management
 - 6. 01 78 00 Closeout Submittals
 - 7. 01 78 23 Operation and Maintenance Data
- ii. When written specifications are not furnished by the Government the contractor's A/E firm shall provide missing specifications. Standards of work will be in accordance with industry standards and Fort Benning guide specs as issued by the Savannah District Corps of Engineer.
- iii. Contractor or A/E shall deliver any specifications not provided in the bid document specifications. The A/E specifications shall be combined with the bid specifications and submitted as one specifications book for the 100% submittal and Record Document submittal.

f. Cost and Pricing:

- i. Within 48 hours of the bid/proposal date and time the contractor shall provide to the Architect/Engineer an itemized list of material and labor cost for review prior to award of the contract.

g. Coordination with other contractors:

- i. If other contracts and work are subject to be performed or arise to address any issues, at the same time as this contract the contractor shall cooperate and coordinate work with all parties involved and is now notified of same.

h. Building Occupancy:

i. General

1. Building sheds M8849, M8850 and M8851 will be unoccupied during the performance of the work.
2. Areas in which work is required may be occupied or have public or Government presence during the performance of work under any Task Order (TO). Every effort will be made to keep unauthorized personnel from accessing work site. Other maintenance and/or repair construction may also concurrently be performed at the site by other contractors. The Contractor shall cooperate with the Government to minimize conflict, and to facilitate the Government's operations by scheduling the Work to accommodate Government occupancy.
3. The contractor shall provide notice 14 days prior to the start of the work for any phase of the project to allow the Government to remove any furniture, materials, lockers, equipment, etc. from designated work areas that may impact the work of the contract. Items left in place will be protected during construction.

i. Salvage:

- i. The contractor shall remove and salvage and protect any remaining furniture, lockers, equipment, etc to complete the work. Items salvaged will be reinstalled.
- ii. Any items removed and salvaged that gets damaged during removal and is not able to be reinstalled will be replaced by the contractor.
- iii. Any items identified as salvage and return to the Government or any phrase with the intent to return items to the Government, those items will be protected during removal. The contractor will coordinate turning over those items to the Government.

j. Disposal of Construction Waste:

- i. The Contractor shall be responsible for removing and disposal of all debris and hazardous waste created by this project, IAW local, state and federal guidelines and laws. The contractor shall dispose of all debris and hazardous waste created by this project in Georgia/Alabama approved Landfill at the contractor's expense. Contractor shall maintain and provide upon request by the KO or the designated representative receipts and haul tickets or bills of laden that construction debris from this contract has been disposed of IAW with local, state and federal guidelines and laws.
- ii. In restrictive areas, for example an airfield, could have special requirements or additional steps for disposing of construction waste. The contractor shall verify any special requirements or additional steps prior to the start of the work.

k. Safety:

i. General

1. The contractor shall comply with all governing codes and standards. Contractor shall comply with Fort Benning Safety and Environmental laws and regulations. The contractor shall perform all work IAW government procedures for entering and working at Fort Benning. The government reserves the right to stop work at any time for safety, security reasons, and for national defense at no cost to the government.

ii. Public

1. The Contractor shall conduct his operations to offer the least possible obstruction and inconvenience to the public, vehicular, and the normal day-to-day routine of the Government installation where work is to be performed. Unless safety otherwise prevents such actions, personnel and traffic shall be permitted to pass through the work area with as little delay as possible. Where the nature of construction operations in progress and the equipment and machinery in use are of such character as to endanger passing traffic, the Contractor shall provide such lights and signs, erect such fences or barriers, as may be necessary to give adequate warning and to avoid damage or injury to passing traffic. Signs, flags, lights, and other warning and safety devices shall conform to applicable laws, safety regulations and requirements.

iii. Employee

1. To provide safety controls for protection to the life and health of employees, and other persons; for prevention of damage to property, materials, supplies, and equipment; and for avoidance of work interruptions in the performance of this contract, the Contractor shall comply with all pertinent provisions of the U.S. Army Corps of Engineers Safety and Health Requirements Manual EM 385-1-1, as amended. The Contractor shall also take or cause to be taken such additional measures as the KO may determine to be reasonably necessary for the purpose.

I. Accessibility to Work Site:

1. Buildings M8849 and M8850:

- a. Normal Working hours for the Contractor will be 0800 to 1630, Monday through Friday, excluding Saturdays, Sundays, and Federal Holidays. If the Contractor wishes to work during periods other than above, additional Government inspection forces will be required. The Contractor must notify the Contracting Officer (KO) five (5) working days in advance of his/her intention to work during other periods to allow assignment of additional inspection forces when the Contracting Officer determines that the additional inspection force is reasonably available. All inspections will be done during normal duty hours. Due to certain circumstances (i.e., emergencies or urgent requirements), deviation of contractor's working hours will be as indicated in the RTOR.

2. Building M8851:

- a. The contractor will have 90 non-consecutive workdays (including weekdays, weekends, and holidays) during a 365-day period of performance (PoP). The specific days the contractor will have access to the work site will be confirmed 35 weeks in advance (5 months) and thereafter on a rolling basis at the end of each week. For example, if PoP is 1 SEP 24 through 31 AUG 25, then contractor will know the exact dates starting 1 SEP 24 through 31 JAN 25 (equal 5 months); and one week later (on 8 SEP 24), they will know the work site dates through 7 FEB 25, and so on.

a. Daily Housekeeping:

- i. The Contractor shall keep work area clean and remove all unneeded construction debris daily and/or as directed by the Construction Inspector, User, or Contracting Officer's Representative.

b. Required Submittals:

- i. The contractor shall provide submittals according to the specifications or noted elsewhere in this Statement of Work.
- ii. The Contractor shall provide to the Government for review, comment and approval all submittals required herein prior to starting work, including design, engineering and construction documents as well as a timeline schedule for the work prior to beginning construction. Product submittals and shop drawings shall not be submitted until after the design submittals are reviewed and approved.
- iii. The Contractor's personnel shall compile submittals based on the Specifications or other sections in this Statement of Work. Submittals shall be complete before submitting to the Government for review. A complete submittal shall consist of all items required for a submittal. Sending information incrementally for one submittal is unacceptable.
- iv. The contractor shall make sure all submittals are reviewed by the designer of record (DOR) prior to government acceptance via transmittal. Any submittal transmitted to the government without a DOR review and stamp/signature will be rejected/dis-approved.
- v. The contractor shall provide a submittal register to track and log all submittals between government (DPW) and contracting office (MICC). The contractor shall be responsible for updating the submittal register on a regular basis and provide to government (DPW) when requested.
- vi. The contractor shall email or hand deliver all submittals to the contracting officer (MICC) designated for the project. DPW will accept any submittals unless filtered through MICC first.
- vii. The contractor's personnel or A/E firm shall indicate which product will be used when multiple products are listed on a submittal.
- viii. Failure to comply with i-v may result in a disapproved submittal.

c. Special Instruction:

- i. Contractor shall insure that all individuals associated with the Work adhere to all safety regulations and codes. Construction debris waiting removal from the site will be stored per regulations and codes. Contractor shall walk the site prior to leaving for the day to ensure all debris is picked up and disposed of properly.
- ii. The contractor shall verify that all Federal, State, Local, and Fort Moore (144R) environmental regulations and code are being followed.

3. Construction Detailed Requirements

01 General Requirements

i. Summary of Work

1. *M8849 & M8850 buildings consist of architectural and electrical repair work. M8851 consists of only an electrical repair to the shed. (see other sections for additional summaries).*

- a. Contractor to provide an initial construction schedule and updated construction schedules thereafter if Range Division must make field changes due to data provided by Range Ops.
- b. Contractor to include a 30'-0"(L) x 30'-0"(D) x 8'-0"(H) link security fence with razor wire at the top with a 10'-0" wide entry gate for access to store materials on-site. The fenced area shall be secure and lockable. This fenced area shall serve as a laydown area for materials. Location TBD and approved by Range Division.
- c. Contractor to correct the grade/slope around the foundation of each structure to prevent water collection/ponding and to improve drainage away from the foundation. Contractor shall use equipment to perform minor grade work to improve the drainage. Use a French drainage systems and/or yard inlets around the foundation to mitigate erosion and remove water quickly away from the buildings. Any yard inlet shall have a concrete apron poured around it, sloped to drain.
- d. Demolish all gutters and downspouts. Do not install new gutters and downspouts. Contractor shall grade/excavate around slab to ensure positive drainage around building. Install 4" gravel bed with weed fabric around entire building offset 4'-0" from the edge of slab. Minimal digging, within the limits of the bed area, may be required to eliminate the vegetation and ensure proper depth (4") for the newly placed fabric and gravel.
- e. Remove all vegetation (i.e., trees, tree limbs, vines, brush, shrub, weeds, etc.) overtaking any of the outside of the structures shall be pruned, cut-back, and/or completely removed 15'-0" minimum from outermost edge of structure.

- f. Remove/dredge any built up dirt and grass surrounding the structures, within the concrete apron, to ensure positive drainage away from the exterior walls. Equipment required to remove the dirt.
- g. Roofs - Replace entire roof, roof components, trim, flashing and siding with new metal panels using a heavy duty 18-gauge ribbed panel. The panels shall have a Kynar 500 finish, highly corrosion-resistant hot dip coating and match same profile or equal. Use the correct fasteners per the appropriate application and match fastener color same as the metal color. Drill/fasten all hardware per manufacturers recommendation. The existing manufacture for all three sheds is by Gulf State Manufacturing, who merged with Kirby Building Systems, a subsidiary of Nucor Corporation, manufactures metal building systems. No translucent skylight panels are to be used.
- h. Walls - Replace metal panels at every wall using a heavy duty 18-gauge ribbed panel. The panels shall have a Kynar 500 finish, highly corrosion-resistant hot dip coating and match same profile or equal.
- i. Remove roof top vents and ventilate new roof with ridge type vent.
- j. Remove single entry door, along with hinges, (leaving metal header and jambs) and remove commercial style garage door with all its components and hardware.
- k. Salvage and reuse building number signs.
- l. Demolish the portion of the existing concrete rail wall within the building and where possible remove up to the existing wooden retaining (perpendicular to the concrete rail) wall outside the building from the entrance. Saw cut through the concrete rail wall to remove in pieces and haul away. The outside portion of the wall shall be removed below grade to allow dirt to cover it. The portion of concrete wall inside the building shall be removed flush with current finished floor elevation. Pour and screed a thin concrete mix over the area to trowel a flush surface with the existing concrete floor.
 - i. Note: The rail is part of an older hardwired system that is no longer in service. Removing a section of the concrete rail will provide extra room for the new target mover and maintenance inside the building.
- m. Contractor to apply a high quality paint product to adhere to the exterior and interior of the concrete perimeter walls. The remaining door jambs shall be primed and painted. Paint color to match the metal panel color selected by DPW architect.
- n. The inside portion of the sheds shall be cleaned, and all contents removed. Coordination with Range Division is required to ensure they remove any items of value first.
- o. The yard grate inlet at shed 8849 shall be reused (located next to transformer). Remove the above grade cage and replace with a flush type grate and pour a concrete apron around the inlet.
- p. Provide Bermuda sod (palletized) for all ground disturbance areas during construction to ensure 100% stabilization and follow all requirements for BMPs per the state of Georgia.
- q. See electrical section for details pertaining to the specifics of each target mover shed.

02 Existing Conditions

i. General

- 1. All Federal, State, Local, and Fort Benning codes and regulations will be adhered to during the performance of any portion of the work.

ii. Asbestos Remediation

1. N/A

iii. Lead Remediation

1. N/A

03 Concrete

i. General

1. Splash blocks at all downspouts

04 Masonry

i. Brick

1. N/A

ii. CMU (Concrete Masonry Unit)

1. N/A

05 Metal

i. General

1. Metal roof and wall panels will be a minimum of 18 gauge.

06 Finishes

i. General

1. Verification and Inspection. The contractor shall satisfy himself or herself as to the nature, scope, intent and location of the work under this section and all conditions, which must be met in order to execute the work.

ii. Exterior

1. Doors:

- a. Frames will receive one primer coat with mildewcide additive and two coats of Architectural latex (semi-gloss)

- b. Color will be selected from manufacturer's standard selection.
 - 2. Walls:
 - a. Interior and Exterior - Concrete walls will receive one primer coat with mildewcide additive and two coats of Architectural latex (semi-gloss)
 - b. Color will be selected from manufacturer's standard selection.
- iii. Color scheme:
 - 1. Contractor shall provide with the 100% submittal 1 interior color board showing selection of all finishes for Government approval prior to the start of the work.

26 Electrical

- i. Electrical Guidelines (New Work):
 - 1. The electrical new work shall comply with the design criteria specified in Technical Instructions TI 800-01 Design Criteria, TI 800-03 Technical Requirements for Design-Build, TI 811-16 Lighting Design, Technical Manual TM 5-811-1 Electric Power Supply and Distribution, TM 5-811-2 Electrical Design - Interior Electrical System, and National Electrical Codes (NEC) and all referenced documents.
- ii. Electrical New Work:
 - 1) Completely remove existing 100A, 277/480V, 3-phase, and 4-wire power panelboard inside B8849, B8850, and B8851.
 - 2) Completely remove existing feeders from existing 100A, 277/480V, 3-phase, and 4-wire power panelboard to the existing pad-mounted transformer. It includes removing feeders conduits, and so on.
 - 3) Completely remove existing 100A, 120/240V, single-phase, and 3-wire lighting panelboard inside B8849, B8850, and B8851.
 - 4) Completely remove existing feeders from existing 15 KVA, single-phase, dry type transformer to existing 120/240V, single-phase panelboard. It includes removing feeders, conduits, and so on.
 - 5) Completely remove existing 15 KVA, single-phase, dry type transformer inside B8849, B8850, and B8851. It includes removing feeders, conduits, and so on from both primary side and secondary side of the transformer.
 - 6) Completely remove existing multiplex control relay, terminal blocks, and contactor for monorail control conductors inside B8849, B8850, and B8851. It includes removing all relative equipment, devices, wiring, cables, conduits, junction boxes, enclosures, and so on.

- 7) Completely remove all existing internal and exterior light fixtures from B8849, B8850, and B8851. It includes removing all the light fixtures, light switches, wiring, cables, conduits, junction boxes, enclosures, and so on.
- 8) Completely remove all existing receptacle outlets from B8849, B8850, and B8851. It includes removing all the receptacle outlets, wiring, cables, junction boxes, conduits, enclosures, and so on.
- 9) Completely remove all the abandoned mechanical equipment, electrical equipment, and devices from the buildings. It includes removing equipment and devices, wiring, cables, junction boxes, conduits, enclosures, and so on.
- 10) Completely remove all existing power strips from the monorail as indicated on the drawings. It includes removing all the power strips on the wall along the rail on each location.
- 11) It shall be the responsibility of the contractor to remove existing equipment as required to accomplish the new work as shown or reasonably implied. The contractor shall refer to the new architectural, plumbing, mechanical, electrical, etc. plans for work shown to determine the extent of demolition required.
- 12) The contractor shall take all necessary precautions during demolition and construction to maintain the integrity and operation of existing life safety and emergency egress equipment.
- 13) The contractor shall remove all electrical device, fixtures, wiring, and rough-in in walls, floor, or ceilings to be demolished. The contractor shall remove existing electrical devices, lighting fixtures, system device, associated wiring, and conduit back to source or nearest device to remain, unless noted otherwise. If existing circuit has downstream devices to remain, contractor shall refeed these items accordingly through alternate path.
- 14) The electrical contractor shall determine the extent to which existing conduit and the wiring will have to be re-routed, relocated, or reconnected, and the amount of additional work which may be required due to the physical location of the conduit and wiring shall be performed under this contract without additional charges to the owner.
- 15) Prior to any deactivation and relocation of demolition work, arrange a conference with Government in the field to inspect each of the items to be deactivated, removed, or relocated. Care shall be taken to protect all equipment designated to be relocated and reused or to remain operation and be integrated with the new systems.
- 16) Contractor shall inspect and identify any conduit and/or conductors that may be embedded in walls to be demolished or located in the demolition area and relocate these to new location prior to the start of demolition. Bid price shall include conduit and conductors and labor for any that must be removed or relocated.
- 17) When removing electrical equipment and systems. All precautions shall be taken to prevent structural damage to the building. The contractor shall coordinate installation of any structural supports required, temporary or permanent.
- 18) The contractor shall coordinate and schedule all power interruptions with DPW project manager and DPW electrical engineer in writing.
- 19) Area affected by the demolition works shall be repaired and repainted to match the surrounding condition.
- 20) Provide and install a new 120/240V, 100A, main circuit breaker, single-phase, and 3-wire (Two hot wires, one neutral wire) panelboard with 24 circuit spaces in B8849, B8850, and B8851.
- 21) Run 3 #2 AWG copper wires, 1 #8 AWG copper ground wire in 1 ¼" (schedule 40 PVC and EMT) conduit from the existing 25 KVA pad-mounted transformer to the new 100A, 120/240V,

- single-phase panelboard. (Note: In B8851, run 3 #2 AWG copper wires, 1 #8 AWG copper ground wire in 1 ¼" (schedule 40 PVC and EMT) conduit from the new 25 KVA pad-mounted transformer (installed by Flint Electric) to the new 100A, 120/240V, single-phase panelboard.)
- 22) Provide and install panelboard grounding to the ground rod and connect the grounding rod to the 25 KVA pad-mounted transformer grounding circuit.
 - 23) Provide and install new light fixtures (Fixture A) as indicated on the drawing. connect the new light fixtures to the new switching light control.
 - 24) Provide and install new light fixtures (Fixture B) as indicated on the drawing. Connect the new light fixtures to the new switching light control.
 - 25) Provide and install five duplex receptacle outlets as indicated on the drawing. Connect the receptacle outlets to the new 100A, 120/240V, single-phase panelboard.
 - 26) Provide and install a quadruplex receptacle outlet as indicated on the drawing. Connect the quadruplex receptacle outlet to the 100A, 120/240V, single-phase panelboard.
 - 27) Provide and install a heavy duty throw safety switch (Type VBII, 30 Amp, Type 3R) as indicated on the drawing. The safety switch is designed to be used as transfer equipment on optional standby systems as defined by Article 702 of the NEC.
 - 28) Provide and install a dedicated 20A, 120/240V, 4-wire (two hot wires, one neutral wire and one equipment ground wire) receptacle outlet (NEMA L4-20R twist lock power outlet) as indicated on the drawing. The power outlet should be in a weatherproof enclosure that provides a weathertight connection when the plug is inserted.
 - 29) Run 3 #12 AWG copper wires, 1 #12 AWG copper ground wire in ½" EMT conduit from the heavy-duty double throw safety switch to a dedicated 20A, 120/240V, 4-wire receptacle outlet.
 - 30) Provide and install a 30A generator power inlet box (with weatherproof enclosure) as indicated on the drawing. Connect the generator power inlet box to the heavy-duty double throw safety switch (Type VBII, 30 Amp, Type 3R) as indicated on the drawing.
 - 31) Run 3 #10 AWG copper wires, 1 #10 AWG copper ground wire in ½" rigid galvanized steel (RGS) conduit from the heavy-duty double throw safety switch to a 30A generator power inlet box.
 - 32) Flint Electric will replace the existing 75 KVA pad-mounted transformer at B8851 with a new 25 KVA pad-mounted transformer.
 - 33) Electrical metallic tubing (EMT) will be used for all branch circuit and feeder wiring in dry location.
 - 34) Rigid galvanized steel conduit will be used for branch circuit and feeder wiring located in damp or wet locations.
 - 35) Flexible metal conduit will be used to serve all vibrating equipment, except liquid-tight flexible conduit will be used in damp or wet locations.
 - 36) All conduits shall be electrical metallic tubing (EMT), with flexible liquid tight metal conduit for mechanical equipment.
 - 37) All EMT fittings will be steel compression type; set screw type fittings will not be used.
 - 38) New panel labels, breaker labels, and Panel schedules shall match exactly with the panel or device that they feed. Contractor shall provide new panel directory for the panelboard.
 - 39) Thermal magnetic molded case circuit breakers will be utilized in branch circuit panelboards. Solid state, electronic trip circuit breakers will be utilized in switchboards and distribution panelboards were required for selective coordination. All circuit breakers will be fully rated for the available fault current.

- 40) All conductors will be copper with type THHN/THWN 75°C insulation. Minimum size for branch circuits will be #12 AWG.
- 41) All interior cables will be installed in metallic raceway. Minimum size conduit will be ½ inch. Unless noted otherwise.
- 42) Install all wiring in EMT conduit unless specifically indicated otherwise.
- 43) All branch circuits and feeders will have green equipment grounding conductors.
- 44) All branch current circuitries will be copper wiring within the facility and sized to accommodate voltage drop.
- 45) Conductors larger than #6 AWG will be identified with half lapped bands of green tape for 3 inches of length at the termination point.
- 46) Liquid-tight flexible metal conduit shall not be used as the sole ground-fault current path.
- 47) PVC conduit will not be used except for exterior underground circuits.
- 48) All electrical equipment will be identified to indicate the equipment name, power branch from which served, voltage and panel/circuit number from which served. Contractor shall label all new circuits on each panel.
- 49) The identification labels will be laminated plastic labels with 1/4-inch-high lettering and will be color-coded. Additionally, conductor color coding will permanently post at panels and other locations where conductors are accessible in accordance with NFPA 70.
- 50) All interior electrical system will be grounded in accordance with Article 250 of the current National Electrical Code (NEC).
- 51) Contractor shall furnish all labor, provide, and install all materials and equipment per federal, State, and Local Codes and Standards as well as Army Regulations.
- 52) Contractor shall coordinate work with all other trades, construction drawings, project manager's instruction and owner's direction.
- 53) All work performed by the contractor shall be guaranteed free from defects of materials and workmanship for a period of one year after date of final acceptance.

31 Earth Work

- i. Small to medium sized equipment shall be required to provide positive drainage at each project site.
- ii. Small to medium sized equipment shall be required to remove the trees and vegetation surrounding each project site.

32 Exterior Improvements

- i. Vegetative Maintenance Note: Any vegetation (i.e. 1" to 2" caliber trees, tree limbs, vines, brush, shrub, weeds, etc.) overtaking any of the aforementioned structure shall be pruned, cut-back, or removed 2'-0" minimum from outermost edge of structure. This general note does not include land disturbance, but only vegetation debris clean-up. However, is best if the vegetative debris is completely removed and deposited by means of equipment, if necessary, by minimal ground disturbance which should only be done in an appropriate manner by following all Fort Benning environmental requirements and Best Management Practices (BMP's) for land disturbing/clean-up activities as outline by the GASWCC. This is typical for the existing structure outlined in this scope of work or as noted per the drawings.

33 Utilities

- i. Temporary utilities: Contractor shall provide for all temporary utilities and protections of the building; make modifications in order to be in accordance with (IAW) final SOW for a complete and usable facility.
- ii. Temporary Power: Two options; 1) The contractor shall contact Flint Electric and arrange for construction power to the project site or provide electrical power generator for construction. 2) On site power maybe used, however it shall be the contractor's responsibility to monitor all use of electrical power during the construction period to protect the Contractors' and Government employees and equipment.
- iii. All scheduling, submittals and installation of utilities connections involved with this project are to be coordinated with DPW, Utility Chief and all appropriate utility providers.
- iv. Incorporate utility design information into project plans and furnish documentation to DPW and utility providers.
- v. Repair/replace any site conditions disturbed within the limits of construction as practicable to pre-existing conditions.

41 Material Processing and Handling Equipment:

- i. N/A

42. Antiterrorism/Operations Security Requirements:

The Contractor shall comply with Government personal identity verification procedures implemented in Homeland Security Presidential Directive (HSPD) – 12, Office of Management and Budget (OMB) Guidance M-05-24, and Federal Information Processing Standards Publication (FISP PUB) number 201. Contractor and all associated subcontractor employees shall comply with applicable installation, facility and area commander installation/facility access and local security policies and procedures provided by government representative. The contractor shall also provide all information required for background checks to meet installation access requirements to be accomplished by installation Provost Marshal Office, Director of Emergency Services or Security Office. Contractor workforce shall comply with all personal identity verification requirements as directed by Department of Defense (DoD), Headquarters Department of the Army (HQDA) and/or local policy. In addition to the changes otherwise authorized by the changes clause of this contract, should the Force Protection Condition (FPCON) at any individual facility or installation change, the Government may require changes in contractor security matters or processes.

- i. AT Level I Training: All contractor employees, to include subcontractor employees, requiring access Army installations, facilities and controlled access areas shall complete AT Level I awareness training within 30 calendar days after contract start date or effective date of incorporation of this requirement into the contract, whichever is applicable. The contractor shall submit certificates of completion for each affected contractor employee and subcontractor employee, to the COR or to the contracting officer, if a COR is not assigned, within 30 calendar days after completion of training by all employees and subcontractor personnel. AT level I

awareness training is available at the following website: <http://jko.jten.mil>. AT Level I training is an annual requirement if option years are exercised.

- ii. Access and General Protection/Security Policy and Procedures: Contractor and all associated sub-contractors employees shall provide all information required for background checks to meet installation access requirements to be accomplished by installation Provost Marshal Office, Director of Emergency Services or Security Office. Contractor workforce must comply with all personal identity verification requirements (FAR clause 52.204-9, Personal Identity Verification of Contractor Personnel) as directed by DOD, HQDA and/or local policy. In addition to the changes otherwise authorized by the changes clause of this contract, should the Force Protection Condition (FPCON) at any individual facility or installation change, the Government may require changes in contractor security matters or processes.
 - a. Contractors Requiring a Common Access Card (CAC): N/A.
 - b. Contractors that do not Require CAC, but Require Access to a DoD Facility or Installation: Contractor and all associated sub-contractors employees shall comply with adjudication standards and procedures using the National Crime Information Center Interstate Identification Index (NCIC-III) and Terrorist Screening Database (TSDB) (Army Directive 2014-05/AR 190-13), applicable installation, facility and area commander installation/facility access and local security policies and procedures (provided by government representative), or, at OCONUS locations, in accordance with status of forces agreements and other theater regulations.
- iii. AT Awareness Training for Contractor Personnel Traveling Overseas: N/A.
- iv. iWATCH Training: The contractor and all associated sub-contractors shall brief all employees on the local iWATCH program (training standards provided by the requiring activity ATO). This local developed training will be used to inform employees of the types of behavior to watch for and instruct employees to report suspicious activity to the COR. This training shall be completed within 30 calendar days of contract award and within 30 calendar days of new employees commencing performance with the results reported to the COR NLT 30 calendar days after contract award.
- v. Army Training Certification Tracking System (ATCTS) Registration for Contractor Employees who Require Access to Government Information Systems: N/A.
- vi. OPSEC Standing Operating Procedure/Plan: The contractor shall adhere to the Government's Operations Security (OPSEC) Standard Operating Procedure (SOP)/Plan during the entire period of performance.
- vii. Operations Security (OPSEC) Training: N/A.
- viii. Information Assurance (IA)/Information Technology (IT) Training: N/A.

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- ix. Information Assurance (IA)/Information Technology (IT) certification: N/A.
- x. Contractors Authorized to Accompany the Force: N/A.
- xi. Performance or Delivery in a Foreign Country: N/A.
- xii. Handling or Access to Classified Information: N/A.
- xiii. Threat Awareness Reporting Program: N/A.

Additionally, the contractor shall adhere and conform to all safety, security and attendance requirements that apply to the supported office. The contractor is required to attend and participate in all organizational meetings, training, and emergency preparedness events and is required to vacate the Government office work site when no sufficient Government oversight is available.

-- End of SOW --