National Security Agency
FY 2017 Military Construction, Defense-Wide
($ in Thousands)

State/Installation/Project	Authorization Request	Approp. Request	New/ Current Mission	Page No.
Maryland				
National Security Agency				
Ft. Meade				
NSAW Campus Feeders Phase 3	17,000	17,000	C	108
NSAW Recapitalization Building #2, Incr. 2	-	195,000	C	110
Access Control Facility	21,000	21,000	C	115
Total	**38,000**	**233,000**		

1. COMPONENT NSA/CSS DEFENSE	FY 2017 MILITARY CONSTRUCTION PROGRAM	2. DATE February 2016
3. INSTALLATION AND LOCATION Ft. George G. Meade, Maryland	4. COMMAND NSA/CSS	5. AREA CONSTRUCTION COST INDEX 1.02

6. PERSONNEL STRENGTH IC Community Installation CLASSIFIED	PERMAMENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	CLASSIFIED
				CLA	SIFI	ED				

7. INVENTORY DATA ($000)

A. TOTAL ACREAGE	$0
B. INVENTORY TOTAL AS OF	$0
C.AUTHORIZED NOT YET IN INVENTORY	$0
D. APPROPRIATION REQUESTED IN THIS PROGRAM	$233,000
E. APPROPRIATION INCLUDED IN FOLLOWING PROGRAM	$313,692
F. PLANNED IN NEXT THREE YEARS	$1,079,260
G. PLANNING AND DESIGN COST	$0
H. REMAINING DEFICIENCY	$0
I. GRAND TOTAL	$1,625,952

8. PROJECTS REQUESTED IN THIS PROGRAM:

CATEGORY CODE	PROJECT NUMBER	PROJECT TITLE	COST ($000)	DESIGN START	DESIGN COMPLETE
81242	31067	NSAW Campus Feeders, Phase 3 (FY17)	$17,000	APRIL 2013	OCT 2015
14162	30583	NSAW Recapitalization Building #2, Increment 2 (FY17)	$195,000	MAY 2014	JAN 2016*
14113	TBD	NSAW Access Control Facility (ACF) (FY17)	$21,000	MAY 2016	FEB 2017*

9. FUTURE PROJECTS:

a. INCLUDED IN FOLLOWING PROGRAM (FY18)

CATEGORY CODE	PROJECT NUMBER	PROJECT TITLE	COST ($000)
14162	30583	NSAW Recapitalization Building 2, Increment 3 (FY18)	$313,692

b. PLANNED IN NEXT THREE YEARS (FY19 - FY21)

CATEGORY CODE	PROJECT NUMBER	PROJECT TITLE	COST ($000)
14162	30583	NSAW Recapitalization Building 2, Increment 4 (FY19)	$238,000
14113	32122	Access Control Facility (ACF) (FY19)	$38,123
14162	32546	NSAW Recapitalization Building 3, Increment 1 (FY19)	$83,000
13185	32100	NSAW Recapitalization Building 3A, Increment 1, (FY20)	$39,667
14162	32546	NSAW Recapitalization Building 3, Increment 2 (FY20)	$299,000
13185	32100	NSAW Recapitalization Building 3A, Increment 2 (FY21)	$142,560
14162	32546	NSAW Recapitalization Building 3, Increment 3 (FY21)	$238,910

10. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES

A. AIR POLLUTION	0
B. WATER POLLUTION	0
C. OCCUPATIONAL SAFETY AND HEALTH	0

Footnote:
*RFP Completion date

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1. Component	FY 2017 MILITARY CONSTRUCTION PROJECT DATA	2. Date
NSA/CSS DEFENSE		February 2016

3. Installation and Location	4. Project Title
Ft. George G. Meade, Maryland	NSAW CAMPUS FEEDERS PHASE 3

5. Program Element	6. Category Code	7. Project Number	8. Project Cost ($000)
	81242	31067	$17,000

9. Cost Estimates

Item	U/M	Quantity	Unit Cost	Cost
PRIMARY FACILITIES				**00,000**
N/A				
SUPPORTING FACILITIES				**14,341**
Electrical Ductbanks	LS			(8,176)
Electrical Feeders and Components	LS			(4,754)
Existing Feeders Removal	LS			(472)
Site Work	LS			(939)
TOTAL CONSTRUCTION COST				**14,341**
Contingency (10%)				1,434
Subtotal				**15,775**
SIOH (5.7%)				899
Design During Construction (DDC) (Title II Services) (2%)				316
Total Project Cost				16,990
TOTAL PROJECT COST ROUNDED				**17,000**

10. DESCRIPTION OF PROPOSED CONSTRUCTION: The proposed construction provides a new campus electrical distribution system comprised of new ductbanks, power feeders, and manholes. In addition, load interrupter switches, which eliminate medium voltage feeder splices, will be installed at the point of connection for most of the buildings on the NSAW campus. Construction also requires erosion and sediment control and stormwater management, as well as demolition and restoration of roadways, parking lots, landscaping, fences, and other site features impacted by the work. Minor demolition of electrical equipment/component is also required to accommodate the proposed electrical configuration. Some existing ductbanks and manholes are planned to be abandoned in place; but existing feeders will be removed.

11. REQUIREMENT: 13.8 KV – 500-750 kcmil feeders – 6" Conduit
SUBSTANDARD: 13.8 KV – 350-500 kcmil feeders – 3", 4", and 5" Conduit
ADEQUATE: None

PROJECT: NSAW Campus Buildings Feeders – South Campus (Phase 3): Construction to replace all existing ductbanks and medium voltage power feeders.

REQUIREMENT: To improve the reliability of the prime and emergency electrical power infrastructure required to support current and future mission needs, the NSAW campus is upgrading its power infrastructure with two new Primary Substations (PSs) and new upgraded Secondary Unit Substations (SUSs) in all of the major NSAW buildings. The new ductbanks will provide larger diameter conduit to accommodate the required larger medium voltage power feeders. The larger feeders, and new ductbanks configuration, load interrupter switches, automatic circuit breaker, and other electrical component; will allow for a complete and flexible distribution while minimizing feeder splices and their associated vulnerabilities.

1. Component	FY 2017 MILITARY CONSTRUCTION PROJECT DATA	2. Date
NSA/CSS DEFENSE		February 2016

3. Installation and Location	4. Project Title
Ft. George G. Meade, Maryland	NSAW CAMPUS FEEDERS PHASE 3

5. Program Element	6. Category Code	7. Project Number	8. Project Cost ($000)
	81242	31067	$17,000

CURRENT SITUATION: The existing underground electrical ductbanks and manholes are more than 30 years old, and the medium voltage power feeders are undersized for current and projected power loads. The existing conduits will not be able to accommodate the new, larger cable size requirements.

IMPACT IF NOT PROVIDED: As the NSAW campus electrical loads increase to meet demand, the risks of unplanned outages resulting from excessive thermal loading poses a risk to the undersized, aging campus electrical distribution ductbank, conduits, and medium voltage power feeders. As power requirements continue to increase, any form of unplanned power outages will pose a serious threat to the NSAW mission. If this project is not provided, NSAW will be operating under progressively reduced levels of power reliability.

12. SUPPLEMENTAL DATA:

1. Status
   - (a) Design Start: April 2013
   - (b) Design Complete: October 2015
   - (d) Type of Contract: Design/Bid/Build

2. Basis
   - (a) Standard of Definitive Design
   - (b) Where design was most recently used: N/A

3. Total Cost (c) = (a) + (b) or (d) + (e) ($000)

(a) Production of plans and specifications	$1,000
(b) All other design costs	$0
(c) Total design cost (c) = (a) + (b) or (d) + (e)	$1,000
(d) Contract	$1,000
(e) In house	N/A

4. Construction Contract Award: March 2017
5. Construction Start Date: May 2017
6. Construction Completion Date: November 2018

Additional Information:

- Phase 1: NSAW Campus Buildings Feeder – North Campus (FY15 - $54,207)
- Phase 2: NSAW Campus Buildings Feeder – Central Campus (FY16 - $33,745)
- Phase 3: NSAW Campus Buildings Feeder – South Campus (FY17 - $17,000)

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1. Component	FY 2017 MILITARY CONSTRUCTION PROJECT DATA	2. Date
NSA/CSS DEFENSE		February 2016

3. Installation and Location	4. Project Title
Ft. George G. Meade, Maryland	NSAW RECAPITALIZATION BUILDING #2, INCREMENT 2

5. Program Element	6. Category Code	7. Project Number	8. Project Cost ($000) $782,332
	14162	30583	Appropriated FY17: $195,000

9. Cost Estimates

Item	U/M	Quantity	Unit Cost	Cost
PRIMARY FACILITIES				**627,951**
NSAW Recapitalization Building #2				
Operations Building	SF	826,114	538.02	(444,466)
Parking Garage	SF	1,121,000	83.19	(93,260)
Mechanical Plant	SF	72,268	726.80	(52,525)
OMSI Costs	LS			(1,000)
Sustainability and EPAct05 (2%)	LS			(11,850)
Antiterrorism/Force Protection	LS			(24,850)
SUPPORTING FACILITIES				**39,053**
Electrical Service and Generation	LS			(21,808)
Water, Chilled Water, Reclaimed Water and Sewer	LS			(2,628)
Paving, Walks, Curbs and Gutters and Roadways	LS			(5,439)
Storm Drainage	LS			(2,834)
Site Improvements and Demolition	LS			(4,255)
Information Systems Ductbank	LS			(1,061)
Antiterrorism/Force Protection	LS			(1,029)
Design-Build Design Cost @ 4%	LS			**27,750**
Estimated Contract Cost				**694,754**
Contingency (5.0%)				34,738
SUBTOTAL				**729,491**
SIOH (5.7%)				41,581
Design During Construction (1.5%)				10,942
Total Project Request				782,015
TOTAL PROJECT COST				**782,332**
Equipment from other appropriations				**211,582***

*Number has changed due to adjustments.

10. DESCRIPTION OF PROPOSED CONSTRUCTION: Construct a new Operations Facility of approximately 898,382 GSF for approximately 3,000 personnel including supporting facilities with associated site work and environmental measures. The facility will be built on the National Security (NSA) East Campus at Fort George G. Meade, MD. The FY16 authorized amount represents the entire funding required to execute this MILCON project. The FY17 appropriation represents the second increment of a four part funding profile.

The general scope of work for the project consists of the following:

The primary facility will be comprised of a multi-story structure with full basement. The facility includes open office areas and operations floor, analyst /planner collaboration areas, cafeteria and other operations. The mission support areas provide joint staff offices, executive offices, machine rooms, storage, and meeting rooms.

Project consists of core and shell structure and foundations; elevator conveyance systems; electrical/mechanical service and distribution components and systems; fire protection, alarm and suppression; information technology infrastructure, communications, and security systems support infrastructure; exterior finishes and weatherproofing. Interior build out will provide raised access floor systems, acoustically-rated interior partitions and ceilings, power, lighting, environmental control and communications. The primary facility is not a standard design. The entire structure will be built to Sensitive Compartmented Information Facility (SCIF) standards. Project includes redundant primary power and Uninterruptable Power Supply (UPS) systems to ensure continuity of operations. This project requires comprehensive interior design.

1. Component NSA/CSS DEFENSE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA		2. Date February 2016
3. Installation and Location Ft. George G. Meade, Maryland			4. Project Title NSAW RECAPITALIZATION BUILDING #2, INCREMENT 2
5. Program Element	6. Category Code 14162	7. Project Number 30583	8. Project Cost ($000) $782,332 Appropriated FY17: $195,000

Site infrastructure will include primary electrical service to the site, water, sewer, and telecommunications pathways. The supporting facilities include, site preparation and infrastructure improvements, utility services, and perimeter security measures. Site preparation will include standard clearing, grubbing, cut, fill, grading and environmental protection structures. Additional site work consists of curb and gutter, walkways, patios and roads. Utility site construction will provide emergency backup power generation and cooling equipment. Perimeter security construction will extend existing perimeter fence line and surveillance capabilities.

Provide approximately 3,000 new parking spaces for staff and visitors by expanding an existing parking structure and an additional 500 spaces in a surface lot. The 500 space surface lot is required due to transplanting parking spaces required for ECB1, JOC and ECB-MC projects.

Since the project is located on an active East Campus development site, close coordination with multiple concurrent MILCON project activities will be necessary to allow continuous, uninterrupted use of the site during construction and to ensure contractor lay-down areas and access are maintained and boundaries secured.

This project will require road improvements to the NSAW Campus in support of increased personnel on East Campus due to East Campus Building 2. Improvements shall follow standards, guidelines, regulations and best practices as identified by Maryland State Highway Administration (SHA), the Manual on Uniform Traffic Control Devices (MUTCD), and the American Association of State Highway and Transportation Officials (AASHTO).

This project will include storm water management facilities in compliance with Maryland Department of the Environment requirements for Environmental Site Design, as well as EISA Section 438.

This project will include sustainable features cost effectively integrated to meet, at minimum Leadership in Energy and Environmental Design (LEED) Green Building Council rating system Silver-certified level requirements.

This project will be designed in accordance with, but not limited to, Architecture Barriers Act (ABA) Requirements and AT/FP Standards. Unified Facilities Criteria (UFC) will be an integral part of design consideration. This project is to be compliant with the current version of the MD Procurement Office (MPO) Facilities Engineering Design Standards (FEDS), and the latest version of the East Campus Installation Design Guidelines (IDG).

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1. Component NSA/CSS DEFENSE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA		2. Date February 2016
3. Installation and Location Ft. George G. Meade, Maryland			4. Project Title NSAW RECAPITALIZATION BUILDING #2, INCREMENT 2
5. Program Element	6. Category Code 14162	7. Project Number 30583	8. Project Cost ($000) 782,332 Appropriated FY17: $195,000

11. REQUIREMENT: New: Approximately 898,382 GSF Operations Building (and associated mechanical plant) and 1,121,000 SF Parking Structure
ADEQUATE: None
SUBSTANDARD: None

PROJECT**:** Construct multi-story operations facility and structured parking facility (Current Mission).

REQUIREMENT: This facility is necessary to provide an environment necessary to support mission operations and to further implement NSA's recapitalization plan. The NSA recapitalization plan calls for the phased replacement of aging facilities that have exceeded their service life and can no longer support the technology required for new missions. Additionally, this facility will provide the NSA with a flexible building that can provide the modern infrastructure necessary to support current and future technological requirements.

This facility will incorporate new technologies and processes that will generate beneficial synergies through integration and collaboration. Through an open work environment that incorporates scalable, reconfigurable work spaces, missions will be able to achieve both actual and virtual collaboration while maintaining their functional discipline. To meet these demands in a wholly independent manner and with required levels of capacity and reliability, critical infrastructure will be constructed to provide redundancy.

CURRENT SITUATION: Currently, activities in support of both the DoD and the nation are conducted individually in an NSA-centric structure. Network operations are prevented from realizing the full potential of the collaborative, cohesive work environments required for this initiative. To meet the immediate need, existing facilities are being reconfigured and supplemented through leased space. However, these efforts are limited by the availability of facilities with suitable locations, adequate AT/FP profiles, and power and cooling infrastructure capable of supporting mission critical activities.

IMPACT IF NOT PROVIDED: If this facility is not funded, NSA will continue to overburden existing facilities and infrastructure impeding the ability to effectively operate and meet its mission.

ADDITIONAL: The project has been coordinated with the installation facilities master plan and physical security plan. It complies with all required physical security and/or anti-terrorism measures. All required and anticipated physical security and antiterrorism protection measures are included. An Environmental Assessment has been completed that leverages the completed Environmental Impact Study for the NSA campus. Alternative methods of meeting requirements have been explored during the development of this project. An economic analysis has been prepared for this project and utilized in evaluating this project and determined this project to be the only viable option to satisfy the requirement. Construction estimates include costs associated with construction on a controlled access site, clearances for personnel, labor inefficiencies associated with escort requirements, and other daily processes at NSA. Escorts are required for positive control of access to primary and secondary utilities, which service other critical NSA facilities. Storm water management to mitigate environmental impact per EIS requirements are included. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c), and other applicable laws and Executive Orders. Facility will be designed and certified to LEED-NC Silver under USGBC LEED v3 2009. This project is to be compliant with the current version of NSA’s, Facilities Engineering Design Standards (FEDS).

1. Component NSA/CSS DEFENSE	FY 2017 MILITARY CONSTRUCTION PROJECT DATA		2. Date February 2016
3. Installation and Location Ft. George G. Meade, Maryland		4. Project Title NSAW RECAPITALIZATION BUILDING #2, INCREMENT 2	
5. Program Element	6. Category Code 14162	7. Project Number 30583	8. Project Cost ($000) 782,332 Appropriated FY17: $195,000

12. SUPPLEMENTAL DATA:

1. Status

A. Design start date:	May 2014
B. Type of design contract	Design/Build

2. Basis

A. Standard or definitive design:	No
B. Where design was most recently used:	N/A
C. Percentage of design utilizing standard design:	N/A

3. Total Cost (C) = (a) + (b) or (d) + (e) ($000)

(a) Production of plans and specs:	$31,450
(i) Design Build RFP – P&D	$3,700
(ii) Design Build Design – MILCON	$27,750
(b) All other design cost:	$0
(c) Total design cost (C) = (a) + (b) OR (d) + (e):	$31,450
(d) Contract Architect-Engineer Design Cost, Estimated	$31,450
(e) In-house Design Cost Plus Architect Engineer Contract Supervision and Administration Cost \ Government Forces Design Cost, Estimated	$0
	$0

a.	Construction Contract Award:	July 2016
b.	Construction Start Date (Planned):	Sept. 2016
c.	Construction Completion Date	Sept. 2020

Additional Information:

- FY16 Increment 1: $34,897
- FY17 Increment 2: $195,000
- FY18 Increment 3: $313,692
- FY19 Increment 4: $238,000

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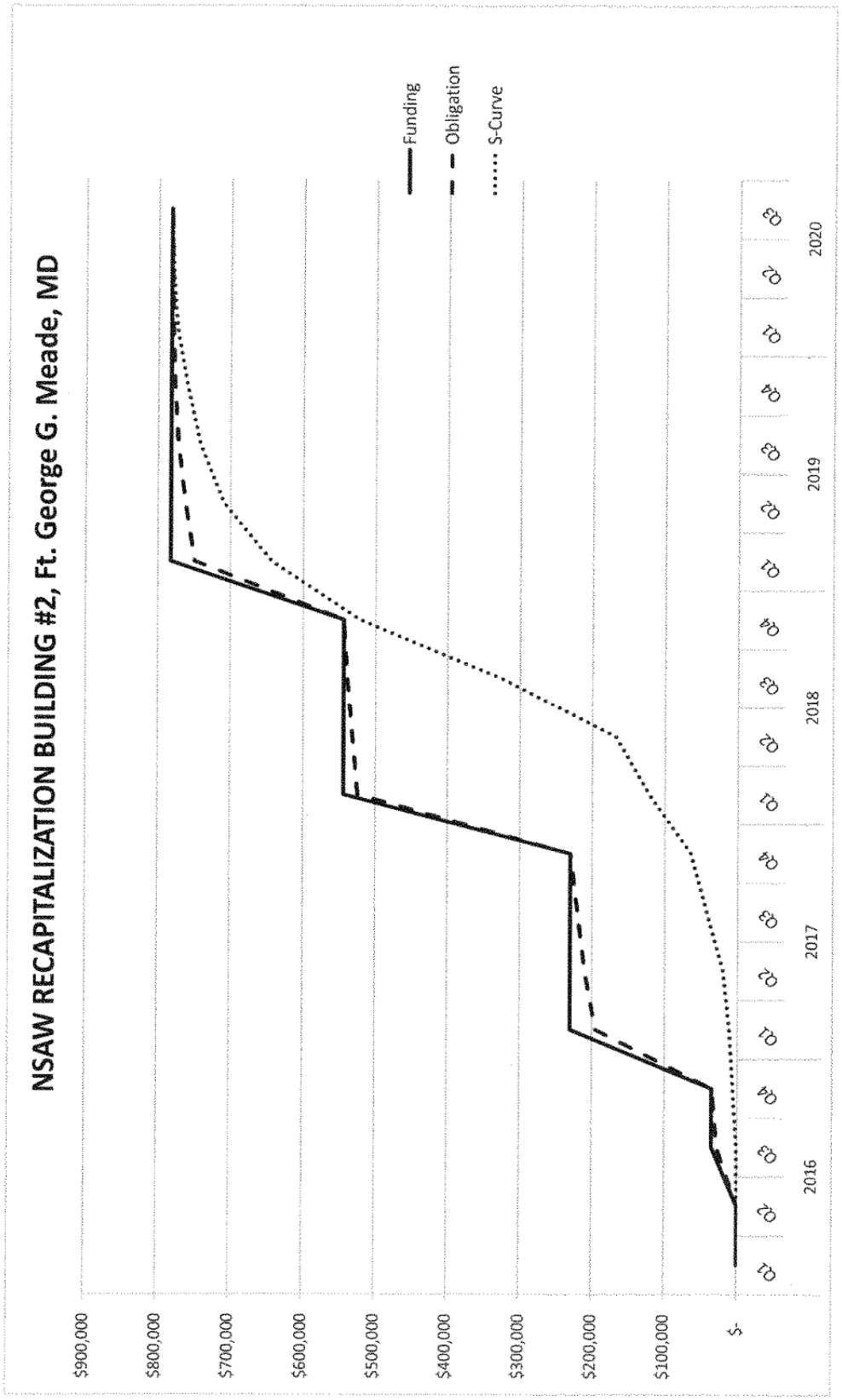
NSAW RECAPITALIZATION BUILDING #2, Ft. George G. Meade, MD
Funding
Obligation
S-Curve
$900,000
$800,000
$700,000
$600,000
$500,000
$400,000
$300,000
$200,000
$100,000
$-
2016
2017
2018
2019
2020

1. Component	FY 2017 MILITARY CONSTRUCTION PROJECT DATA	2. Date
NSA/CSS DEFENSE		February 2016

3. Installation and Location	4. Project Title
FT. George G. Meade, Maryland	Access Control Facility(ACF)

5. Program Element	6. Category Code	7. Project Number	8. Project Cost ($000)
	14113		$21,000

9. Cost Estimate

Item	U/M	Quantity	Unit Cost	Cost ($000)
PRIMARY FACILITIES				**9,369**
Vehicle Control Center (ACF) Facility	SF	10,000	396.90	(3,969)
Electrical System	LS	1		(1,385)
Mechanical System	LS	1		(786)
Sustainable Design	LS	1		(331)
Anti-Terrrorism/Force Protection (AT/FP)	LS	1		(2,898)
SUPPORTING FACILITIES				**8,351**
Site Electrical	LS	1		(1,114)
Site work and improvements	LS	1		(6,761)
Demolition	LS	1		(476)
Design-Build (4%)	LS	1		**709**
TOTAL CONSTRUCTION COST				**18,429**
Contingency (5%)				921
Subtotal				**19,350**
SIOH (5.7%)				1,103
Design During Construction (DDC) (Title II Services) (2%)				387
Total Project Cost				20,840
TOTAL PROJECT COST ROUNDED				**21,000**

10. DESCRIPTION OF PROPOSED CONSTRUCTION: Construct a new Access Control Facility (ACF) of approximately 10,000 gross square feet (GSF) with the capacity to support processing of visitors per criteria established by the Unified Facilities Criteria (UFC). Requirements for visitor control includes: waiting area, service counter, break room, offices, and restrooms. The facility will be built on the National Security Agency (NSA), located at Fort George G. Meade, Maryland (FGGM).

The facility services and systems for electrical, mechanical, and fire alarm/suppression will be part of this project. The supporting facilities include, site preparation, infrastructure improvements, utility services, perimeter security measures, infrastructure for the telecommunication and the physical security system. Site preparation will include standard clearing, grubbing, cut, fill, grading, and environmental (sustainable) features. A surface parking lot will be also part of this project to include parking for the visitors, an access control zone to support security vehicles and vehicles associated with shift changes of security personnel. This project also includes demolition of the existing ACF.

11. REQUIREMENT: 10,000 SF.
ADEQUATE: 4,300 SF
SUBSTANDARD: 4,000 SF

PROJECT: Construct a new ACF and associated facilities to process visitors arriving to the installation.

REQUIREMENT: The ACF controls entry to NSA by identify proofing, vetting to determine the level of character and conduct determined necessary for basis of access control decisions for individuals requesting access to NSA, and issuance of access credentials. An ACF is required based upon the average daily peak population of visitors to the installation, both currently and projected within the next five years.

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1. Component	FY 2017 MILITARY CONSTRUCTION PROJECT DATA	2. Date
NSA/CSS DEFENSE		February 2016

3. Installation and Location	4. Project Title
FT. George G. Meade, Maryland	Access Control Facility (ACF)

5. Program Element	6. Category Code	7. Project Number	8. Project Cost ($000)
	14113		$21,000

CURRENT SITUATION: The NSA campus on Ft Meade has insufficient facilities and requires additional area to process visitors due to mission growth. The existing ACF is reaching their maximum capacity for processing visitors per hour per processor and it will not be able to effectively process the expected increase of visitors requesting and/or requiring access to the installation.

IMPACT IF NOT PROVIDED: If this facility is not provided, NSA will continue to overburden the existing ACF facility which is not adequate to process the expected increased in the amount of visitors.

ADDITIONAL: The project has been coordinated with the installation facilities master plan and physical security plan. It complies with all required physical security and/or anti-terrorism measures. All required and anticipated physical security and antiterrorism protection measures are included.

The facility will be designed to comply with Executive Order 13514 “Federal Leadership in Environmental, Energy and Economic Performance”.

12. SUPPLEMENTAL DATA:

1. Status
   - (a) Design Start: May 2016
   - (b) Type of Contract: Design/Build

2. Basis
   - (a) Standard of Definitive Design
   - (b) Where design was most recently used: N/A

3. Total Cost (c) = (a) + (b) or (d) + (e) ($000)
   - (a) Production of plans and specifications
     - (i) Design Build RFP – P&D $349
     - (ii) Design Build Design - MILCON $709
   - (b) All other design costs $0
   - (c) Total design cost (c) = (a) + (b) or (d) + (e) $1,058
   - (d) Contract
     - (i) Design Build RFP – P&D $349
     - (ii) Design Build Design – MILCON $709
   - (e) In house $0

4. Construction Contract Award: May 2017

5. Construction Contract Start Date: July 2017

6. Construction Completion Date: Dec. 2018

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