Exhibit R-2, RDT&E Budget Item Justification: PB 2020 United States Special Operations Command	Date: March 2019
Appropriation/Budget Activity 0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 7: *Operational Systems Development*	**R-1 Program Element (Number/Name)** PE 1160405BB / *Intelligence Systems Development*

COST ($ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
Total Program Element	576.045	8.837	10.625	15.484	-	15.484	17.974	16.729	16.181	16.567	Continuing	Continuing
S400: *SO Intelligence Systems*	576.045	8.837	10.625	15.484	-	15.484	17.974	16.729	16.181	16.567	Continuing	Continuing

A. Mission Description and Budget Item Justification

This program element is part of the Military Intelligence Program (MIP) that provides for the identification, development, rapid prototyping and testing of Special Operations Forces (SOF) intelligence equipment to identify and eliminate deficiencies in providing timely intelligence to deployed forces. Sub-projects address the primary areas of intelligence dissemination, sensor systems, tagging, tracking, and locating devices, integrated threat warning to SOF mission platforms, biometric/ forensic site exploitation and tactical exploitation of national system capabilities. USSOCOM has developed an overall strategy to ensure that Command, Control, Communications, Computers, and Intelligence (C4I) systems continue to provide SOF with the required capabilities into the 21st century. USSOCOM's C4I systems comprise an integrated network of systems providing positive command and control and timely exchange of intelligence and threat warning to all organizational echelons. The C4I systems that support this new architecture employ the latest standards and technology by transitioning from separate systems to full integration with the Global Information Grid (GIG). The GIG allows SOF elements to operate with any force combination in multiple environments.

B. Program Change Summary ($ in Millions)	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Previous President's Budget	8.245	10.625	9.094	-	9.094
Current President's Budget	8.837	10.625	15.484	-	15.484
Total Adjustments	0.592	0.000	6.390	-	6.390
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	0.592	-			
• SBIR/STTR Transfer	-	-			
• Other Adjustments	-	-	6.390	-	6.390

Change Summary Explanation

Funding:

FY 2018: Increase of $0.592 is due to a reprogramming into the National System Support to SOF program.

FY 2019: None.

Exhibit R-2, RDT&E Budget Item Justification: PB 2020 United States Special Operations Command	Date: March 2019
Appropriation/Budget Activity 0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 7: *Operational Systems Development*	**R-1 Program Element (Number/Name)** PE 1160405BB / *Intelligence Systems Development*

FY 2020: Increase of $6.390 million due to an increase for the Joint Threat Warning System Maritime Electronic Intelligence Modular/Scalable open architecture and all variant Development and Testing efforts.

Schedule: None.

Technical: None.

Exhibit R-2A, RDT&E Project Justification: PB 2020 United States Special Operations Command			Date: March 2019
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160405BB / *Intelligence Systems Development*	Project (Number/Name) S400 / *SO Intelligence Systems*	

COST ($ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
S400: *SO Intelligence Systems*	576.045	8.837	10.625	15.484	-	15.484	17.974	16.729	16.181	16.567	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This sub-project is part of the Military Intelligence Program (MIP). Provides for the identification, development, testing, and rapid prototyping of Special Operations Forces (SOF) intelligence equipment to identify and eliminate deficiencies in providing timely intelligence to deployed forces. Sub-projects address the primary areas of intelligence dissemination, sensor systems, tagging, tracking, and locating devices, integrated threat warning to SOF mission platforms, and SOF-unique support from space systems, including Tactical Exploitation of National System Capabilities (TENCAP). The systems developed and tested in this line item are National Systems Support to SOF (NSSS); Joint Threat Warning System (JTWS); Hostile Forces - Tagging, Tracking, and Locating (HF-TTL); Special Operations Tactical Video System/ Reconnaissance, Surveillance, and Target Acquisition (TVS/RSTA); Special Operations Forces Planning, Rehearsal and Execution Preparation (SOFPREP); Integrated Survey Program (ISP); and Sensitive Site Exploitation (SSE).

U.S. Special Operations Command (USSOCOM) has developed an overall strategy to ensure that Command, Control, Communications, Computers, and Intelligence (C4I) systems continue to provide SOF with the required capabilities throughout the 21st century. USSOCOM's C4I systems comprise an integrated network of systems providing positive command and control and timely exchange of intelligence and threat warning to all organizational echelons. The C4I systems that support this new architecture employ the latest standards and technology by transitioning from separate systems to full integration with the Global Information Grid (GIG). The GIG allows SOF elements to operate with any force combination in multiple environments. The intelligence programs funded in this project will meet annual emergent requirements and are grouped by the level of organizational element they support: Operational Element (Team) and Above Operational Element (Garrison).

B. Accomplishments/Planned Programs ($ in Millions)	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Title: NSSS	1.442	0.849	0.862	-	0.862
Description: This program provides research and development, and rapid prototyping to support HQ SOCOM TENCAP program and associated similar and supporting capabilities. NSSS improves the combat effectiveness of USSOCOM, its components, and the Theater Special Operations Commands (TSOC) by providing innovative space-based intelligence, surveillance, and reconnaissance technologies and system enhancements, products, and special communications capabilities to tactical SOF units. NSSS leverages current and developmental National systems to integrate with, augment, and support SOCOM systems. Focus areas include Geospatial Intelligence (GEOINT), Signals Intelligence (SIGINT), Special Communications, and intelligence fusion, reporting, and dissemination. NSSS efforts are characterized by rapid prototype development to transition to SOCOM Programs of Records. These developmental efforts usually support SOCOM's existing MIPs. NSSS will also improve SIGINT capabilities by pursuing Joint Interface Control Document 4.x and follow-on compliant					

Exhibit R-2A, RDT&E Project Justification: PB 2020 United States Special Operations Command		Date: March 2019
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 1160405BB / *Intelligence Systems Development*	**Project (Number/Name)** S400 / *SO Intelligence Systems*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
SIGINT capabilities, extending SOCOM's cross-domain security infrastructure by adding unclassified sensors into theater net-centric geo-location architecture, improving detection of Low-Probability of Intercept/Low Probability of Detection signals, and automating radar characterizations that enhance tactical SOF capabilities to find, fix, monitor, and target assets using National Technical Means in support of tactical operators. ***FY 2019 Plans:*** Continue development of SOF-required prototype capabilities, primarily through leveraging current or developing technologies and assets in the Intelligence Community (IC), while coordinating with SOCOM and IC Programs of Record for production and operational fielding of successful capabilities. Emphasis areas include Intelligence, Surveillance and Reconnaissance (ISR) support for Tagging, Tracking, and higher-accuracy geo-locating of hostile and friendly forces, especially in low sensor density environments, and providing timely intelligence to deployed forces. ***FY 2020 Base Plans:*** Continues development of SOF-required prototype capabilities, primarily through leveraging current or developing technologies and assets in the IC, while coordinating with SOCOM and IC Programs of Record for production and operational fielding of successful capabilities. Emphasis areas include ISR support for Tagging, Tracking, and higher-accuracy geo-locating of hostile and friendly forces, especially in low sensor density environments, and providing timely intelligence to deployed forces. ***FY 2019 to FY 2020 Increase/Decrease Statement:*** Increase of $0.013 million due to inflation adjustment.					
Title: JTWS ***Description:*** The JTWS System of Systems (SoS) enables the SOF Cryptologic Operator to collect, process, locate and exploit threat communications signals of interest in order to provide timely, relevant, and responsive intelligence, cross-cueing, and threat avoidance information directly to the SOF Commanders. The JTWS SoS is assembled in four variants: Ground SIGINT Kit; Maritime; Air; and Unmanned Aerial Systems (UAS). Each variant has additional requirements for Communications Intelligence, Electronic Intelligence, and Precision Geo-location. ***FY 2019 Plans:*** Continue evaluating interoperability of technologies on JTWS variants as well as continue testing of the various system of systems. Continues technical evaluation of evolving technologies for all variants in order to provide	5.335	4.532	11.945	-	11.945

Exhibit R-2A, RDT&E Project Justification: PB 2020 United States Special Operations Command		Date: March 2019
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 1160405BB / *Intelligence Systems Development*	**Project (Number/Name)** S400 / *SO Intelligence Systems*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
additional capabilities to address emerging threats. Continues modular/scalable open architecture Development & Testing (D&T). ***FY 2020 Base Plans:*** Continues evaluating interoperability of technologies on JTWS variants as well as continue testing of the various system of systems. Continues technical evaluation of evolving technologies for all variants in order to provide additional capabilities to address emerging threats. Begins development of an Electronic Intelligence (ELINT) rapid prototyping capability for the Maritime system. Continues modular/scalable open architecture D&T. ***FY 2019 to FY 2020 Increase/Decrease Statement:*** Increase of $7.413 million due to Maritime ELINT ($2.098), Modular/Scalable Open Architecture Development & Testing ($1.800) and All Variants D&T ($3.515) JTWS efforts.					
Title: HF-TTL ***Description:*** This program provides SOF with the necessary tools to find, fix, and finish target assets through the emplacement of sophisticated tags and devices that feed into an integrated architecture. HF-TTL provides Global Combatant Commanders (GCC) and SOF operators with an immediate capability to tag, track, and locate people, things, and activities. The HF-TTL program provides actionable intelligence for SOF mission planners. The mission sets comprise a mix of different classes of tags and their associated detection, interrogation, viewing, tracking, and communications systems that are fielded annually to SOF Components and TSOC based upon dynamic and emergent SOF operational requirements. ***FY 2019 Plans:*** Continue rapid prototyping, specialized device modifications, product development support, integration, and operational testing and evaluation in support of UAS payload integration, maritime specialized tag development, and Low Probability of Intercept (LPI) – Low Probability of Detection (LPD) waveform refinements. ***FY 2020 Base Plans:*** Continues rapid prototyping, specialized device modifications, product development support, integration and operational testing and evaluation in support of UAS payload integration, maritime specialized tags development, and LPI-LPD waveform refinements. ***FY 2019 to FY 2020 Increase/Decrease Statement:***	0.811	0.709	1.078	-	1.078

Exhibit R-2A, RDT&E Project Justification: PB 2020 United States Special Operations Command		Date: March 2019
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 1160405BB / *Intelligence Systems Development*	**Project (Number/Name)** S400 / *SO Intelligence Systems*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Increase of $0.369 million due to minor adjustments for rapid prototyping and additional product development focused on maritime TTL capabilities development.					
Title: TVS/RSTA ***Description:*** This program provides SOF with critical Special Reconnaissance (SR) equipment that directly supports the planning and execution of SOF missions. This capability allows the SOF warfighter to meet SOF SR mission requirements to find, fix, finish, exploit, analyze, and disseminate information of an adversary's movement, construct, identification, location; and associated activities. TVS/RSTA provides GCC and SOF operators with an immediate capability to visually and electronically acquire people, things, and activities and provides actionable intelligence for SOF planners and Commanders. The program Family of Systems (FoS) consists of interoperable equipment to capture and transfer near-real-time ground-based, tactical day/night/ reduced visibility, imagery, video, and electronic proximity and movement sensing, all capable of dissemination through SOF organic, global C4I, and commercial communications infrastructures. ***FY 2019 Plans:*** Continue specialized device modifications, integration and operational testing and evaluation. ***FY 2020 Base Plans:*** Continues specialized device modifications, integration and operational testing and evaluation. ***FY 2019 to FY 2020 Increase/Decrease Statement:*** Increase of $0.152 million for rapid prototyping and product improvement.	0.393	0.564	0.716	-	0.716
Title: SOFPREP ***Description:*** This program serves as the intelligence focal point for production of SOF enhanced GEOINT (maps, imagery, and terrain data) and 3D scene visualization databases. SOFPREP gathers, processes, exploits, disseminates, and manages classified high resolution 3D databases and GEOINT data in support of SOF training, mission rehearsal, and execution preparation systems. The program builds the SOF common geospatial environment and manages the authoritative database of SOF-specific GEOINT terrain data. SOFPREP is a NGA-certified co-producer in support of time-sensitive SOF specific requirements. ***FY 2019 Plans:***	0.291	3.376	0.280	-	0.280

Exhibit R-2A, RDT&E Project Justification: PB 2020 United States Special Operations Command		Date: March 2019
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 1160405BB / *Intelligence Systems Development*	**Project (Number/Name)** S400 / *SO Intelligence Systems*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Continue testing and evaluation of operational prototype systems to speed production of correlated high resolution 3D geospatial databases. ***FY 2020 Base Plans:*** Continues testing and evaluation of operational prototype systems to speed production of correlated high resolution 3D geospatial databases. ***FY 2019 to FY 2020 Increase/Decrease Statement:*** Decrease of $3.096 million due to the completion of high performance computing modernization efforts performed in FY19.					
Title: ISP ***Description:*** This program collects and produces current, detailed, tactical planning data to support military operations to counter threats against U.S. citizens, interests, and property located both domestically and overseas. ISP products are specifically tailored packages that provide operational information, as well as intelligence data for use by DOD and the U.S. Department of State to support operational planners for counter-terrorism operations, evacuations, and other rescue missions. ***FY 2019 Plans:*** Continue development and rapid fielding of ISP system and products to integrate with enterprise architecture and support the latest standards and technology. ***FY 2020 Base Plans:*** Continues development and rapid fielding of ISP system and products to integrate with enterprise architecture and support the latest standards and technology. ***FY 2019 to FY 2020 Increase/Decrease Statement:*** Increase of $0.006 million is due to inflation adjustment.	0.384	0.409	0.415	-	0.415
Title: SSE ***Description:*** This program uses rapid test and evaluation of emerging Biometric and Forensic technology to provide state-of-art capabilities to the warfighter thus allowing for exploitation of personnel, documents, electronic data, materiel, and forensic evidence on sensitive sites/objectives. Biometric kits allow collection and transmission of unique, measurable biometric signatures from personnel, including live/latent fingerprints, iris patterns, and facial features. It also provides a means to verify against and enroll subjects into the DOD authoritative database, and to query that database to support hold or release decisions. Forensic kits enable	0.181	0.186	0.188	-	0.188

Exhibit R-2A, RDT&E Project Justification: PB 2020 United States Special Operations Command		Date: March 2019
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B. Accomplishments/Planned Programs ($ in Millions)	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
on-objective linking of events to specific persons through chemical analysis, latent fingerprints, cell phones and computer data analysis, and deoxyribonucleic acid collection. Exploitation Analysis Centers provide theater-level mobile forensic capabilities for more in-depth exploitation of captured evidence. ***FY 2019 Plans:*** Continue technical evaluation of new technologies. ***FY 2020 Base Plans:*** Continues technical evaluation of new technologies. ***FY 2019 to FY 2020 Increase/Decrease Statement:*** Increase of $0.002 million is due to inflation adjustments.					
Accomplishments/Planned Programs Subtotals	8.837	10.625	15.484	-	15.484

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
• PROC/020400INTL: *Intelligence Systems*	124.408	102.199	100.641	16.500	117.141	118.285	133.465	147.271	150.003	Continuing	Continuing

Remarks

D. Acquisition Strategy

• NSSS introduces and integrates national systems capabilities into the SOF force structure and operations. This is accomplished by partnering with existing IC and SOCOM programs of record to incorporate SOF mission requirements into current and developing technologies and assets. This leveraging of funds increases national and commercial systems awareness, demonstrates the tactical utility of national systems and commercial data, test technologies and evaluates operational concepts in biennial Joint Staff Special Projects, and allows for the transition of promising concepts and technologies to other SOF program offices for execution.

• JTWS is a SoS leveraging commercial technologies and partnerships with other government agencies. The Programs of Records (POR) will leverage Commercial Off The Shelf (COTS)/Government Off The Shelf/ and Non-Developmental Item capabilities requiring minimal modifications wherever possible. JTWS is making deliberate investments to evolve the program into modular/scalable systems with a framework supporting open architecture in order to provide common solutions across the variants, increase interoperability, and reduce duplication of efforts. JTWS will address the continuously evolving threat environments on the Ground, Air, Maritime, and Unmanned Aircraft System variants, leverage existing partnerships with the National Security Agency and other government partners to integrate and sustain systems based on prioritized need from the Components and as emerging threats require technology modernizations. The contracting strategy is a mixture of full and open competition for prime integrators and leveraging existing Indefinite Delivery/Indefinite Quantity (IDIQ) contracts for COTS procurement.

Exhibit R-2A, RDT&E Project Justification: PB 2020 United States Special Operations Command		Date: March 2019
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 1160405BB / *Intelligence Systems Development*	**Project (Number/Name)** S400 / *SO Intelligence Systems*

• HF-TTL utilizes an acquisition strategy to provide highly sophisticated TTL and close target audio/video devices capable of operating in various environments as needed to meet SOF operational requirements. Commercial and government agency sources will be leveraged for required certifications, device level modifications, integration, functional, and operational testing and evaluations.

• TVS/RSTA employs an evolutionary strategy to incorporate the latest state of technology within its product line to provide upgraded next-generation technology insertion of COTS systems and address the changing threat environment to meet SOF reconnaissance and surveillance mission requirements. Commercial and government agency sources will be leveraged for required certifications, system level integration, functional, and operational testing and evaluations.

• SOFPREP employs an evolutionary strategy to insert emerging technologies for processing, exploitation and dissemination capabilities tailored to SOF user-defined mission requirements. Commercial and government agency sources are leveraged for required certifications, system level integration, functional, and operational testing and evaluations.

• ISP employs an evolutionary strategy to insert emerging technologies for collection, processing, exploitation and dissemination capabilities tailored to SOF user-defined mission requirements. Commercial and government agency sources are leveraged for required certifications, system level integration, functional, and operational testing and evaluations.

• SSE uses a commodity procurement rapid acquisition strategy to provide next-generation technologies for collection, processing, exploitation and dissemination capabilities supporting SOF exploitation mission requirements. Commercial and government agency sources are leveraged for required certifications, system level integration, functional, and operational testing and evaluations.

E. Performance Metrics

N/A

Exhibit R-3, RDT&E Project Cost Analysis: PB 2020 United States Special Operations Command		Date: March 2019
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 1160405BB / *Intelligence Systems Development*	**Project (Number/Name)** S400 / *SO Intelligence Systems*

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2018 Cost	FY 2018 Award Date	FY 2019 Cost	FY 2019 Award Date	FY 2020 Base Cost	FY 2020 Base Award Date	FY 2020 OCO Cost	FY 2020 OCO Award Date	FY 2020 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
National Systems Support to SOF (NSSS)	MIPR	Various : Various	16.763	1.442	Feb 2018	0.849	Feb 2019	0.862	Feb 2020	-		0.862	Continuing	Continuing	-
Joint Threat Warning System (JTWS)-Air Increment 2	MIPR	SPAWAR : Charleston, SC	7.805	0.428	Feb 2018	0.500	Dec 2018	0.510	Jan 2020	-		0.510	Continuing	Continuing	-
JTWS-Ground Sigint Kit (GSK), Inc 2	C/CPFF	Various : Various	20.933	0.932	Apr 2018	0.500	Jan 2019	0.510	Jan 2020	-		0.510	Continuing	Continuing	-
JTWS-Maritime	C/CPFF	Various : Various	9.340	0.623	Apr 2018	0.479	Apr 2019	2.577	Jan 2020	-		2.577	Continuing	Continuing	-
JTWS-All Variants	MIPR	Various : Various	2.704	-		0.393	Apr 2019	3.888	Apr 2020	-		3.888	Continuing	Continuing	-
Integrated Survey Program (ISP) - Development, Test and Evaluation	C/FFP	Various : Various	0.530	0.384	Jan 2018	0.409	Jan 2019	0.415	Jan 2020	-		0.415	Continuing	Continuing	-
Hostile Forces-Tagging Tracking, and Locating (HF-TTL)	C/CPFF	Various : Various	1.731	0.597	Feb 2018	0.489	Feb 2019	0.854	Feb 2020	-		0.854	Continuing	Continuing	-
Tactical Video System/ Reconnaissance, Surveillance, & Target Acquisition	MIPR	Various : Various	-	-		-		0.491	Jan 2020	-		0.491	Continuing	Continuing	-
Special Operations Forces Planning, Rehearsal & Execution Preparation (SOPREP) - Rapid Prototyping	C/Various	Various : Various	-	-		1.868	Feb 2019	-		-		-	Continuing	Continuing	-
Prior Year Funding - Completed Efforts	Various	Various : Various	461.047	-		-		-		-		-	0.000	461.047	-
		Subtotal	520.853	4.406		5.487		10.107		-		10.107	Continuing	Continuing	N/A

Exhibit R-3, RDT&E Project Cost Analysis: PB 2020 United States Special Operations Command			Date: March 2019
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 1160405BB / *Intelligence Systems Development*	**Project (Number/Name)** S400 / *SO Intelligence Systems*	

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2018 Cost	FY 2018 Award Date	FY 2019 Cost	FY 2019 Award Date	FY 2020 Base Cost	FY 2020 Base Award Date	FY 2020 OCO Cost	FY 2020 OCO Award Date	FY 2020 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
JTWS Modular/Scalable D&T	C/CPFF	Various : Various	-	3.104	Oct 2018	2.360	Jan 2019	4.160	Jun 2020	-		4.160	Continuing	Continuing	-
Prior Year Funding - Completed Efforts	Various	Various : Various	8.296	-		-		-		-		-	0.000	8.296	-
		Subtotal	8.296	3.104		2.360		4.160		-		4.160	Continuing	Continuing	N/A

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2018 Cost	FY 2018 Award Date	FY 2019 Cost	FY 2019 Award Date	FY 2020 Base Cost	FY 2020 Base Award Date	FY 2020 OCO Cost	FY 2020 OCO Award Date	FY 2020 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
JTWS Test Support	Various	Various : Various	7.594	0.248	Mar 2018	0.300	Mar 2019	0.300	May 2020	-		0.300	Continuing	Continuing	-
Tactical Video System/ Reconnaissance, Surveillance, & Target Acquisition	MIPR	ATEC : FT Huachuca, AZ	1.315	0.393	Jan 2018	0.564	Jan 2019	0.225	Jan 2020	-		0.225	Continuing	Continuing	-
HF-TTL	MIPR	ATEC : FT Huachuca, AZ	0.285	0.214	May 2018	0.220	May 2019	0.224	May 2020	-		0.224	Continuing	Continuing	-
Sensitive Site Exploitation	MIPR	JITC : FT Huachuca, AZ	0.157	0.181	Dec 2017	0.186	Dec 2018	0.188	Dec 2019	-		0.188	Continuing	Continuing	-
Special Operations Forces Planning, Rehearsal & Execution Preparation (SPREP) - Prototype Systems	C/FFP	Various : Various	0.564	0.291	Mar 2018	1.508	Jan 2019	0.280	Mar 2020	-		0.280	Continuing	Continuing	-
Prior Year Funding - Completed Efforts	Various	Various : Various	0.549	-		-		-		-		-	0.000	0.549	-
		Subtotal	10.464	1.327		2.778		1.217		-		1.217	Continuing	Continuing	N/A

Exhibit R-3, RDT&E Project Cost Analysis: PB 2020 United States Special Operations Command			Date: March 2019
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160405BB / *Intelligence Systems Development*	Project (Number/Name) S400 / *SO Intelligence Systems*	

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2018 Cost	FY 2018 Award Date	FY 2019 Cost	FY 2019 Award Date	FY 2020 Base Cost	FY 2020 Base Award Date	FY 2020 OCO Cost	FY 2020 OCO Award Date	FY 2020 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Prior Year Funding - Completed Efforts	Various	Various : Various	36.432	-		-		-		-		-	0.000	36.432	-
		Subtotal	36.432	-		-		-		-		-	0.000	36.432	N/A

	Prior Years	FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	576.045	8.837		10.625		15.484		-		15.484	Continuing	Continuing	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2020 United States Special Operations Command		Date: March 2019
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 1160405BB / *Intelligence Systems Development*	**Project (Number/Name)** S400 / *SO Intelligence Systems*

NSSS/TENCAP Program Schedule

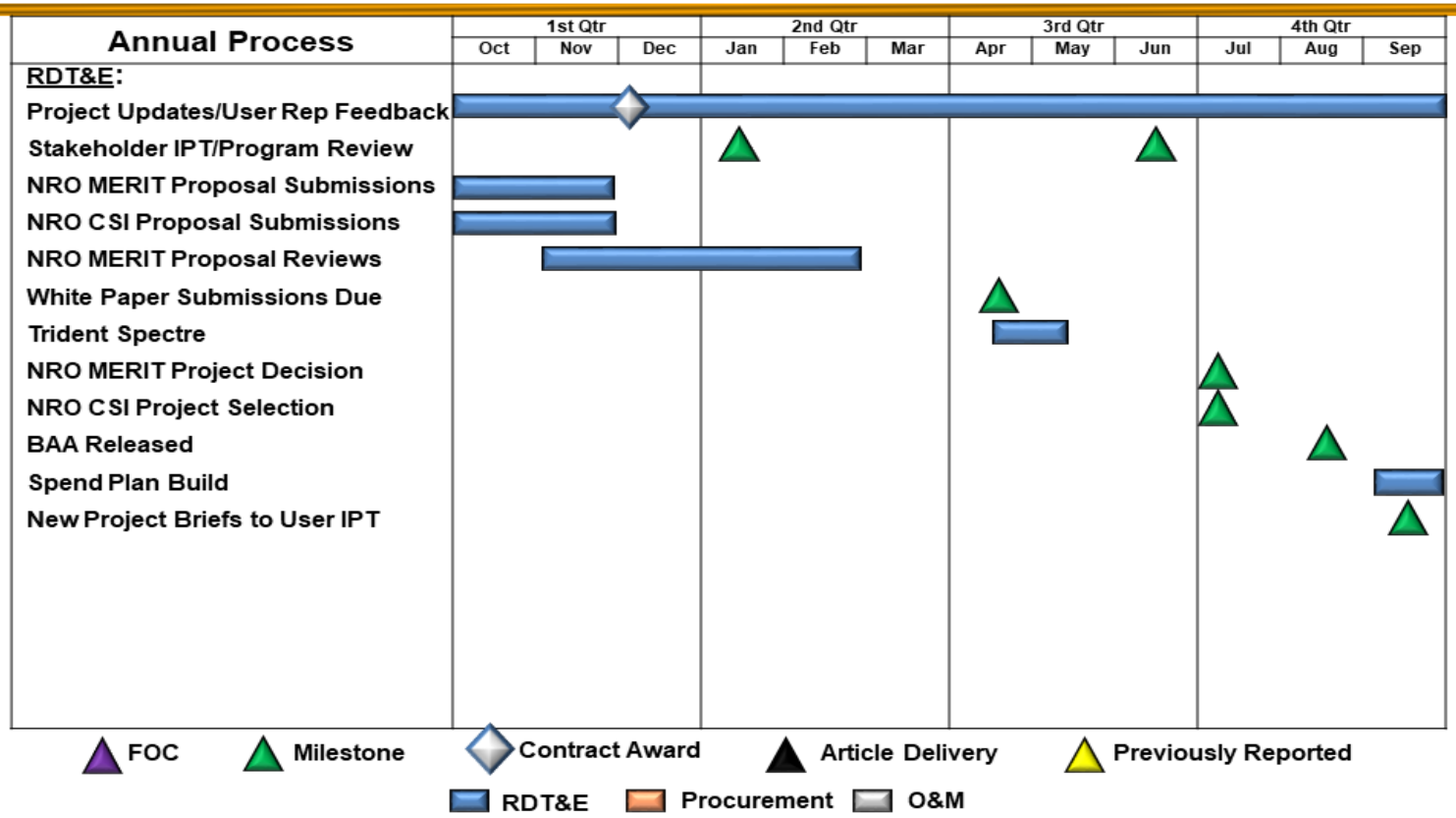

Exhibit R-4, RDT&E Schedule Profile: PB 2020 United States Special Operations Command		Date: March 2019
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 1160405BB / *Intelligence Systems Development*	**Project (Number/Name)** S400 / *SO Intelligence Systems*

JTWS Schedule

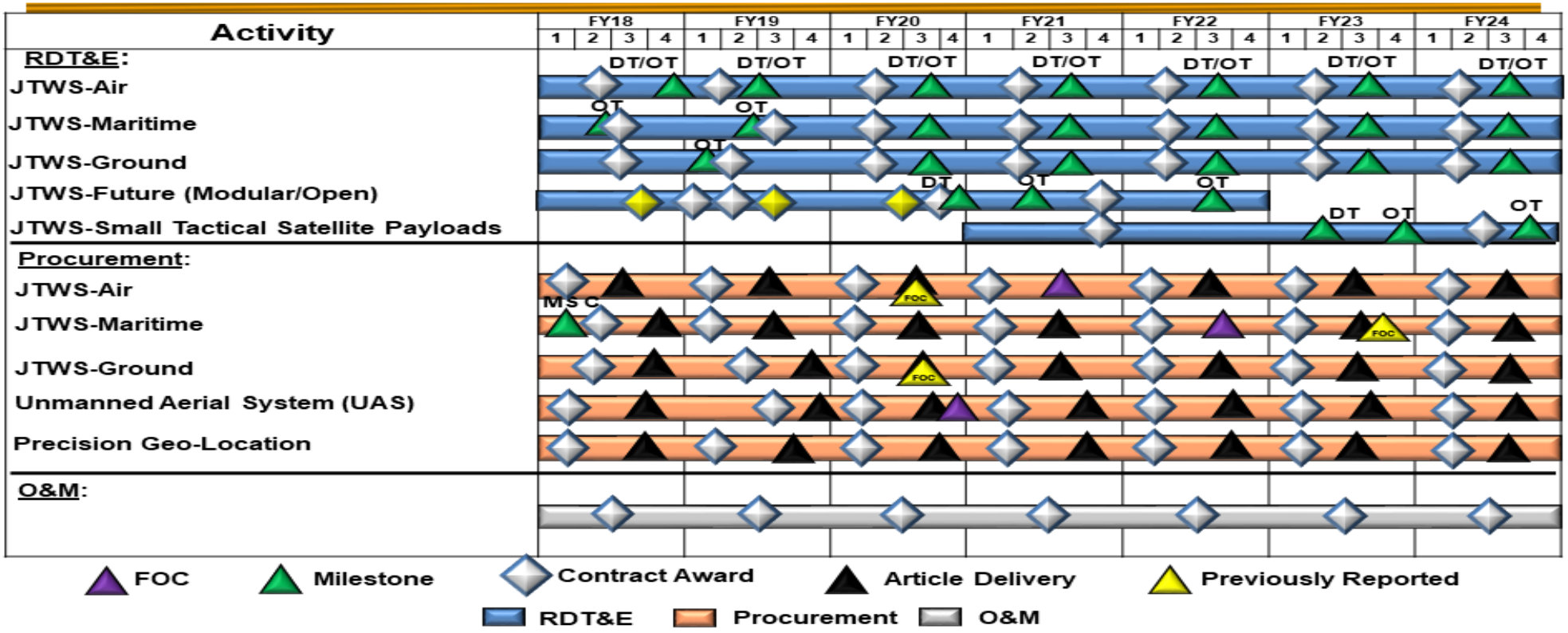

Exhibit R-4, RDT&E Schedule Profile: PB 2020 United States Special Operations Command		Date: March 2019
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 1160405BB / *Intelligence Systems Development*	**Project (Number/Name)** S400 / *SO Intelligence Systems*

HF-TTL Schedule

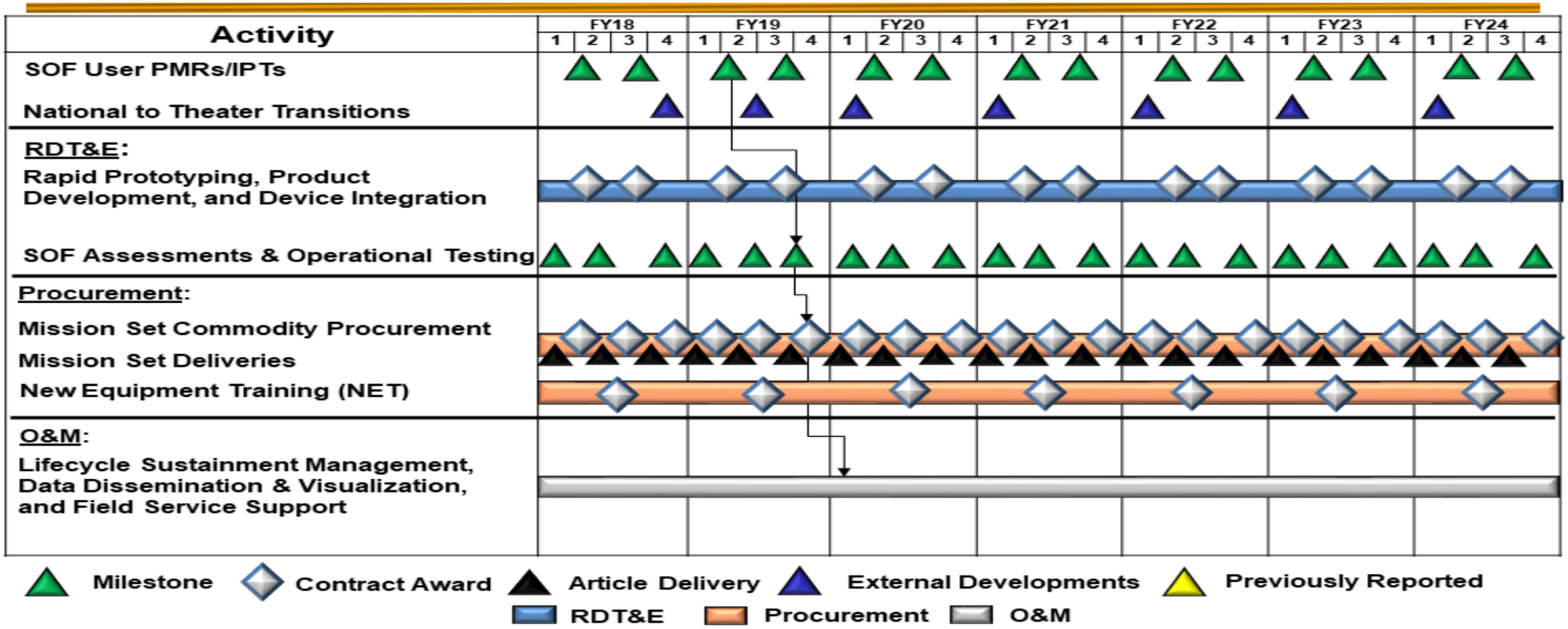

Exhibit R-4, RDT&E Schedule Profile: PB 2020 United States Special Operations Command		Date: March 2019
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 1160405BB / *Intelligence Systems Development*	**Project (Number/Name)** S400 / *SO Intelligence Systems*

TVS/RSTA Schedule

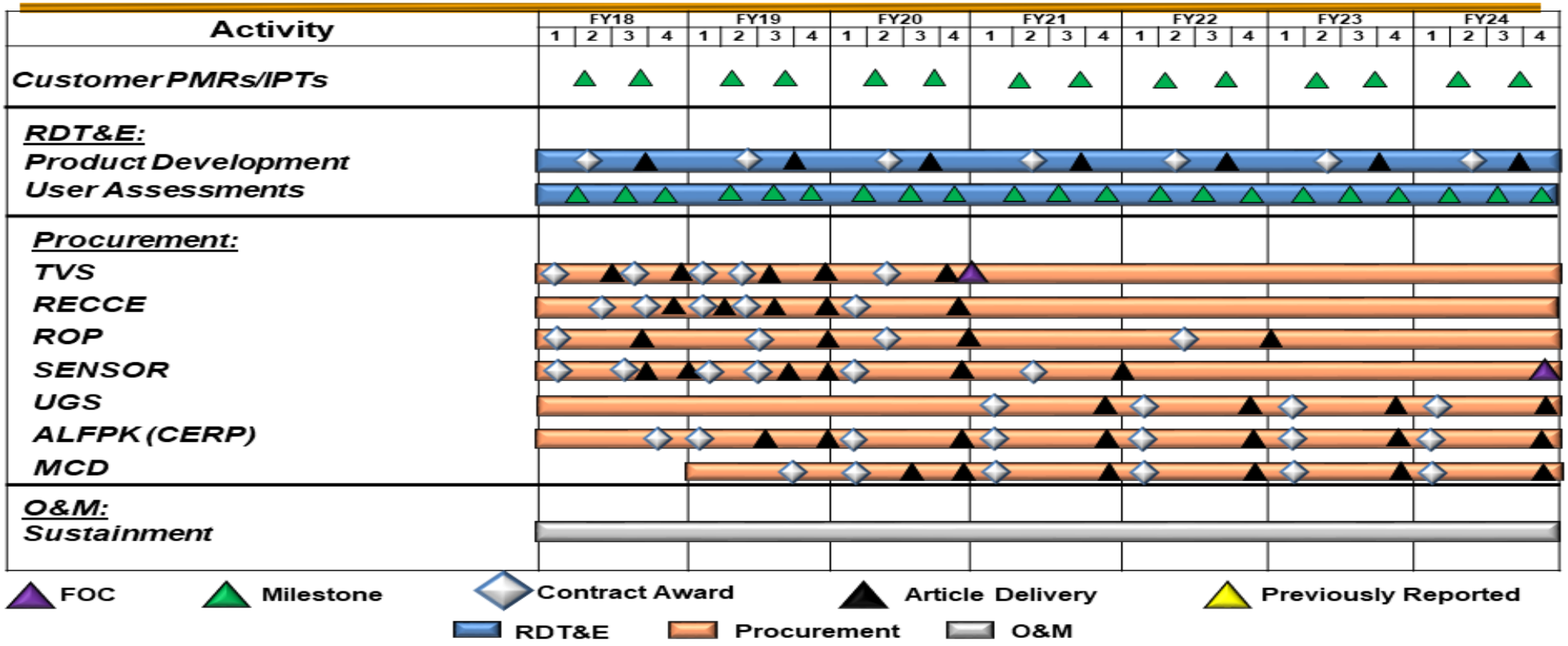

Exhibit R-4, RDT&E Schedule Profile: PB 2020 United States Special Operations Command		Date: March 2019
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 1160405BB / *Intelligence Systems Development*	**Project (Number/Name)** S400 / *SO Intelligence Systems*

SOFPREP Schedule

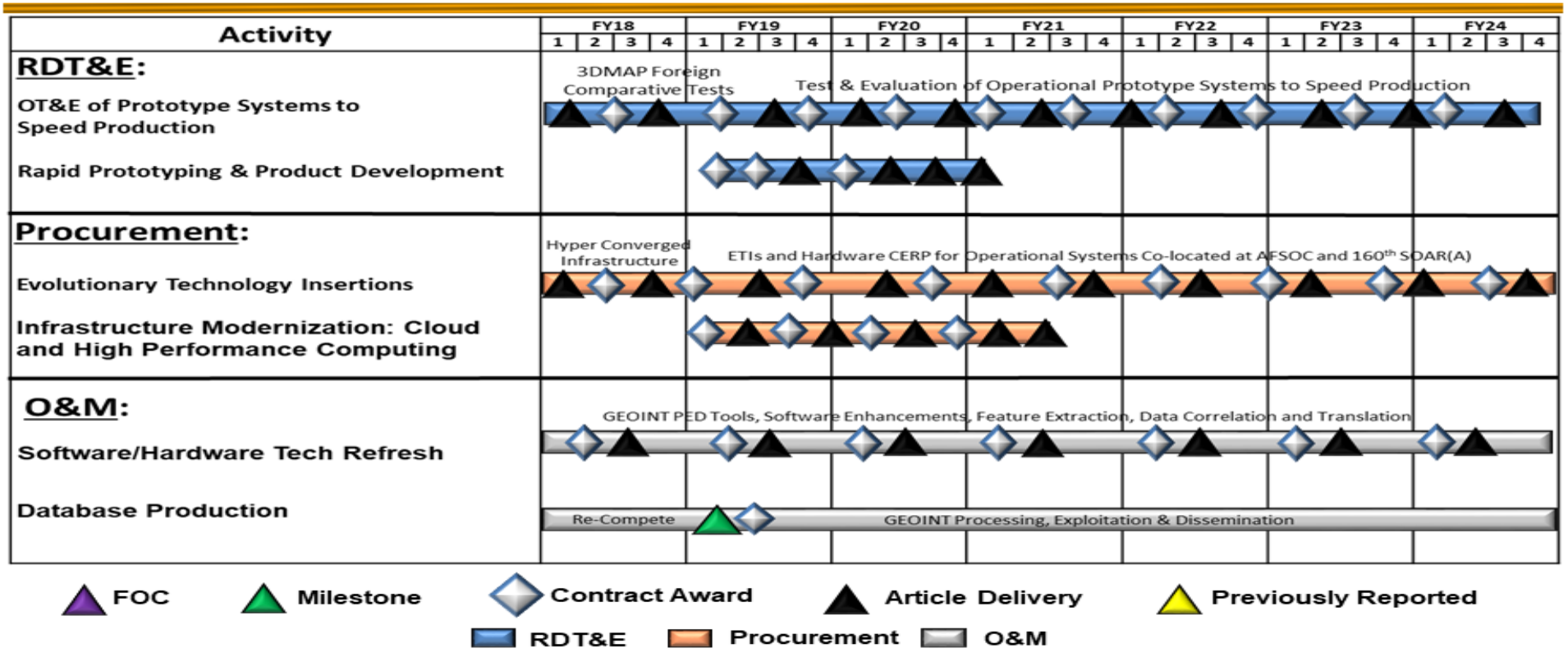

Exhibit R-4, RDT&E Schedule Profile: PB 2020 United States Special Operations Command		Date: March 2019
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 1160405BB / *Intelligence Systems Development*	**Project (Number/Name)** S400 / *SO Intelligence Systems*

ISP Schedule

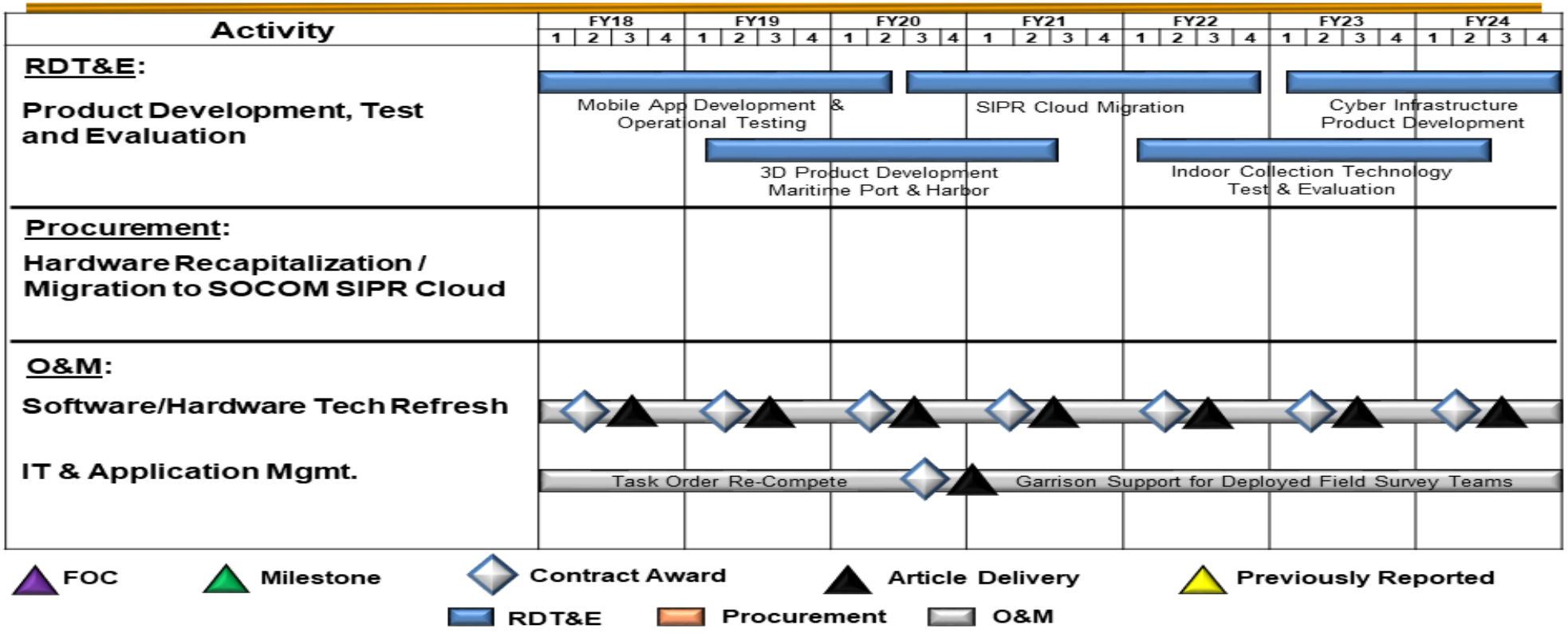

Exhibit R-4, RDT&E Schedule Profile: PB 2020 United States Special Operations Command		Date: March 2019
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 1160405BB / *Intelligence Systems Development*	**Project (Number/Name)** S400 / *SO Intelligence Systems*

Sensitive Site Exploitation Schedule

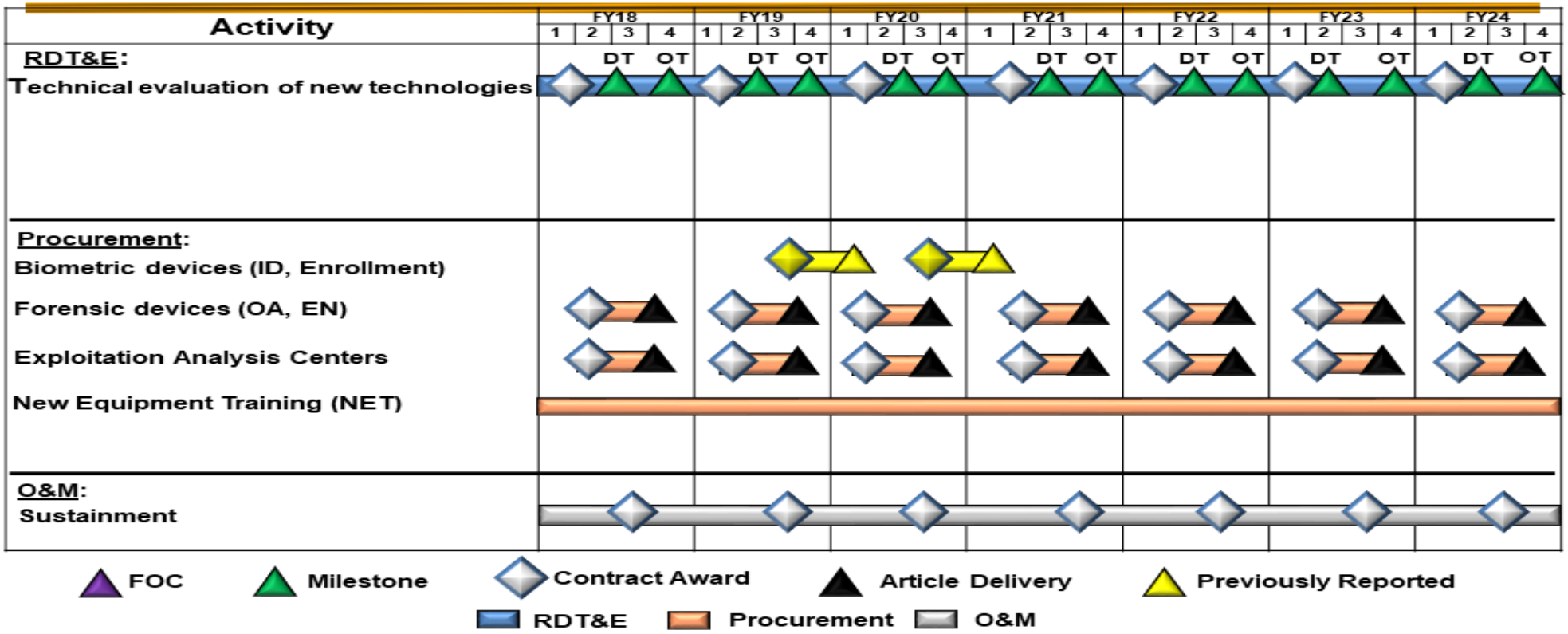

Exhibit R-4A, RDT&E Schedule Details: PB 2020 United States Special Operations Command		Date: March 2019
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 1160405BB / *Intelligence Systems Development*	**Project (Number/Name)** S400 / *SO Intelligence Systems*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
National Systems Support to SOF Participation in Space Technology Development and Integration				
National System Support to SOF Project Updates/User Rep Feedback	1	2020	4	2020
Joint Threat Warning System				
Air Variant Development, Test and Evaluation	2	2018	4	2024
Ground Sigint Kit Variant Development, Test and Evaluation	2	2018	4	2024
Maritime Variant Development, Test and Evaluation	3	2018	4	2024
JTWS Future (Modular/Open)	4	2018	4	2024
Hostile Forces - Tagging, Tracking, and Locating				
Product Development	2	2018	4	2024
Device Integration and Operational Testing	4	2018	4	2024
Special Operations Tactical Video System				
System Integration and Operational Testing	1	2018	4	2024
Product Development	1	2018	4	2024
Special Operations Forces Planning, Rehearsal & Execution Preparation				
Product Development and Operational Test and Evaluation	1	2018	4	2024
Integrated Survey Program				
Product Development	1	2018	4	2024
Sensitive Site Exploitation				
System Integration and Operational Testing	1	2018	4	2024