

### SERVICES DELIVERY SUMMARY MATRIX

PWS PARA. NO.	PERFORMANCE OBJECTIVE			PERFORMANCE THRESHOLD	
	Task or SEA Reference	Cable Plant Upgrades / End Items	Network Electronic Upgrades / End Items		Document Deliverables
3.1.1	Provide project execution plan and schedule at start of project.			<b>Project Schedule (CDRL #1)</b>	Delivery by 10 <sup>th</sup> WD after contract award. <b>Project Schedule (CDRL #1)</b> requires Government approval and acceptance.
3.1.1	Provide project management as needed to monitor and control all technical and administrative support activities related to this PWS.			<b>Monthly Status Reports (CDRL #2)</b> <b>Final Status Report (CDRL #4)</b>	100% On-Time Deliverables
3.1.1	Identify problems or potential problems affecting project performance to the attention of the CO and COR as soon as possible.			<b>Incident Reports (CDRL #3)</b>	Delivery by 2 <sup>nd</sup> WD after Incident and/or Concern is Verbally Reported to the CO or COR.

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3.1.2	Perform all on-site upgrade activities per site facility requirements to maintain JCAHO and local code compliance.				100% Site Code Compliance for JCAHO, Infection Control, OSHA, Safety, Health, NFPA, Fire and Electrical
3.1.5	Perform materials management of Government furnished equipment (GFE) and materials, consisting of IBOM and EBOM items and Contractor furnished equipment (CFE) and materials throughout the period of performance of the project, to include inventory functions at the start of on-site work and the inventory and preparation for shipping at the completion of on-site work.			<b>Monthly Status Reports (CDRL #2)</b> <b>Final Status Report (CDRL #4)</b>	100% On-Time Deliverables
3.1.6	Perform 100% certification testing			<b>Certification Test Report (CDRL #5)</b>	All certification test results shall meet or exceed

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	of all newly installed and re-used physical cable (fiber and copper) per the TDP.				requirements as specified by the applicable EIA/TIA standards. <b>Certification Test Report (CDRL #5)</b> requires Government acceptance.
3.1.7	Update TDP design spreadsheets and drawings to reflect final network infrastructure environment at the completion of on-site work. Include summary spreadsheet of all firewall penetrations. Provide digital pictures of all CMRs/SEAs to show completed work.			<b>As-Built TDP (CDRL #6)</b>	<b>As-Built TDP (CDRL #6)</b> requires Government acceptance.
3.1.3 3.1.4	CMR 1040-2C114	1. Build out communications room per drawings/TDP. 2. Install 1 new cabinet per floor plan drawing/TDP. 3. Install, terminate, and test 220 quad, 40 dual data drops, and 20 single telephone drops per 2 <sup>nd</sup> floor plan/TDP. 4. Install, terminate and test 12 SMF and 24 MMF fibers to each SEA 1040-1B206A and	Install new Cisco 4507, Cisco 4506, iTouch LX-4016S-001AC terminal server, and UPSs per rack elevations.	<b>Certification Test Report (CDRL #5)</b> <b>As-Built TDP (CDRL #6)</b>	100% Certification of All Fiber/Copper Pass T&A PCA/FCA

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		SEA 1040-1F305A. 5. Install 16 wireless quads and 3 IP video quads per 2 <sup>nd</sup> floor plan/TDP. 6. Install patch panels, cable managers, fiber cabinet per rack elevation drawings/TDP. 7. Pull and install 3/0AWG telecommunications grounding backbone system from TGB to TGB above Rm 1C235. Test and record the ohm reading value using the Grounding and Bonding Testing Procedures. 8. Install and test 6 x100 pair telephone tie cables onto patch panels (2 pair per RJ45) per drawings to SEA 1040-1B204. 9. Install fiber-optic pull boxes and inner-duct per the TDP. 10. Install and fire-stop wall penetration sleeves as required per the TDP.			
3.1.3 3.1.4	SEA 1040-1B204	1. Build out communications room per drawings/TDP. 2. Install 1 new relay rack with vertical managers per SEA floor plan/TDP. 3. Remove current racks and reposition existing patch panels and fiber cabinets per interim SEA floor plan and rack	Move Cisco 3508 and UPS to new rack and reinstall.	<b>Certification Test Report (CDRL #5)</b> <b>As-Built TDP (CDRL #6)</b>	100% Certification of All Fiber/Copper Pass T&A PCA/FCA

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		elevations/TDP. 4. Install ladder rack per SEA floor plan/TDP. 5. Install, terminate and test 48 SMF and 24 MMF (62.5 micron) fibers to SEA 1040-1B206A. 6. Install 110 punch-down fields per floor plan/TDP. 7. Install and test 600 pair each (6 x 100 pair) telephone tie cables onto punch-down field from/to CMR 1040-2C114, SEA 1040-1B206A, and SEA 1040-1F205A. 8. Install cable managers, and fiber cabinets per rack elevation and SEA floor plan drawings/TDP. Test and record the ohm reading value using the Grounding and Bonding Testing Procedures 9. Pull and install 3/0AWG telecommunications grounding backbone system between TGB, and TGB in SEA 1040-1B206A per the TDP. Test and record the ohm reading value using the Grounding and Bonding Testing Procedures. 10. Install fiber pull boxes and inner-duct per TDP.			

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		11. Install and fire-stop wall penetration sleeves as required per the TDP.			
3.1.3 3.1.4	SEA 1040-1B206A	<p>1. Build out communications room per drawings/TDP.</p> <p>2. Remove current ladder rack and reposition existing relay racks per SEA floor plan/TDP.</p> <p>3. Validate operational state of relocated devices and repair any cable failures created by this move.</p> <p>4. Install 4 new relay racks with vertical managers per SEA floor plan/TDP.</p> <p>5. Install ladder rack per SEA floor plan/TDP.</p> <p>6. Reposition VTC cabinet per SEA floor plan/TDP.</p> <p>7. Install, terminate, and test 280 quads, drops per 1st floor plan/TDP.</p> <p>8. Install, terminate and test 12 SMF and 24 MMF fibers to CMR 1040-2C114.</p> <p>9. Install, terminate, and test 24 MMF and 48 SMF fibers to SEA 1040-1B204.</p> <p>10. Install 12 wireless quads and 7 IP video quads per 1st floor plan/TDP.</p> <p>11. Install patch panels, cable managers, fiber cabinet per</p>	<p>Install 2 x Cisco 4506 switches, iTouch LX-4032S-001AC terminal server, and UPSs per rack elevations</p> <p>Decommission existing electronics after cutover.</p>	<p><b>Certification Test Report (CDRL #5)</b></p> <p><b>As-Built TDP (CDRL #6)</b></p>	<p>100% Certification of All Fiber/Copper</p> <p>Pass T&amp;A PCA/FCA</p>

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		<p>rack elevation drawings/TDP.</p> <p>12. Pull and install 3/0AWG telecommunications grounding backbone system between TGB, TGB in SEA 1040-1B204, and TGB above Rm 1C235 per TDP.</p> <p>Test and record the ohm reading value using the Grounding and Bonding Testing Procedures.</p> <p>13. Install and test 600 pair (6 x 100 pair) telephone tie cable onto patch panels (2 pair per RJ45) per drawings to SEA 1040-1B204.</p> <p>14. Install fiber pull-box and inner-duct per plan/TDP.</p> <p>15. Install and fire-stop wall penetration sleeves as required per the TDP.</p>			
3.1.3 3.1.4	SEA 1040-1F305A	<p>1. Build out communications room per drawings/TDP.</p> <p>2. Install 3 new relay racks with vertical managers, fire-rated plywood backer for wall mounting, and 1 new wall mount swing rack per SEA floor plan/TDP.</p> <p>3. Install ladder rack per SEA floor plan/TDP.</p> <p>4. Install, terminate, and test 191 quad data, drops per 1st</p>	<p>Install 2 x Cisco 4506 switches, iTouch LX-4032S-001AC terminal server, and UPSs per rack elevations</p>	<p><b>Certification Test Report (CDRL #5)</b></p> <p><b>As-Built TDP (CDRL #6)</b></p>	<p>100% Certification of All Fiber/Copper</p> <p>Pass T&amp;A PCA/FCA</p>

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		<p>floor plan/TDP.</p> <p>5. Install, terminate and test 12 SMF and 24 MMF fibers to CMR 1040-2C114.</p> <p>6. Install 8 wireless quads and 3 each IP video quads per 1st floor plan/TDP.</p> <p>7. Install patch panels, cable managers, fiber cabinet per rack elevation drawings/TDP.</p> <p>8. Pull and install 3/0 AWG telecommunications grounding backbone system between TGB, TGB above Rm 1C235, and TMGB in Rm 1F406 per the TDP. Test and record the ohm reading value using the Grounding and Bonding Testing Procedures.</p> <p>9. Install and test 600 pair (6 x 100 pair) telephone tie cable onto patch panels (2 pair per RJ45) per drawings to SEA 1040-1B204.</p> <p>10. Install fiber-optic pull-box and inner-duct per plan/TDP.</p> <p>11. Install and fire-stop wall penetration sleeves as required per the TDP.</p>			
3.1.3 3.1.4	SEA 1040-2B204	<p>1. Build out communications room per drawings/TDP.</p> <p>2. Install 2 vertical penetrations to Rm 1C235 below per</p>	Decommission existing electronics after cutover.	<p><b>Certification Test Report (CDRL #5)</b></p> <p><b>As-Built TDP (CDRL #6)</b></p>	100% Certification of All Fiber/Copper Pass T&A PCA/FCA

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		drawings and TDP. 3. Install fiber-optic pull-box and inner-duct per plan/TDP. 4. Install and fire-stop wall penetration sleeves as required per the TDP.			
3.1.3 3.1.4	Bldg 1040, Rm 1C235	1. Install TGB inside pullbox above ceiling and terminate ground system from CMR 1040-2C114, SEA 1040-1B206A, and SEA 1040-1F305A on it per the TDP. 2. Install fiber-optic pull-box above ceiling and innerduct to SEA 1040-1B206A, SEA 1040-1F305A, and CMR 1040-2C114 per the plan/TDP. 3. Install sleeves to the 2 penetrations to SEA 1040-2B204 above per the TDP.	None	<b>Certification Test Report (CDRL #5)</b> <b>As-Built TDP (CDRL #6)</b>	100% Certification of All Fiber/Copper Pass T&A PCA/FCA
3.1.3 3.1.4	New HAWC in New Gymnasium		Install 1 x Cisco 3750-24PS-E, RPS, and UPS to replace existing HAWC equipment.  Decommission existing electronics after cutover.	<b>Certification Test Report (CDRL #5)</b> <b>As-Built TDP (CDRL #6)</b>	100% Certification of All Fiber/Copper Pass T&A PCA/FCA
3.1.3 3.1.4	SEA 747-125	1. Build out communications room per drawings/TDP. 2. Install plywood backer and 1 new wall mount swing rack per SEA floor plan. 3. Install, terminate, and test 80 quad drops and 6 wireless	Install 1 x Cisco 3750-24PS-E and 1 x Cisco 3750-48PS-S, RPS, and UPS per rack elevation  Decommission existing electronics after cutover.	<b>Certification Test Report (CDRL #5)</b> <b>As-Built TDP (CDRL #6)</b>	100% Certification of All Fiber/Copper Pass T&A PCA/FCA

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		quads per building floor plan. 4. Install patch panels, cable managers, fiber cabinet per rack elevation drawings/TDP. 5. Install and test 100 pair telephone tie cable onto patch panels (2 pair per RJ45) from 66/110 blocks in the room. 6. Install and fire-stop wall penetration sleeves as required per the TDP.			
3.1.3 3.1.4	SEA 860-211A	1. Build out communications room per drawings/TDP. 2. Install patch panel wall brackets above current racks and move current patch panels to brackets. Repair any cable failures created by this move. 4. Install a 4 foot relay rack on wheels and move existing electronics to the rack. 5. Patch existing drops into existing electronics. 6. Install plywood backer and new wall mount swing rack per SEA floor plan if current rack cannot be re-used. 7. Install, terminate, and test 34 quad drops and 1 wireless quads per building floor plan. 8. Install, terminate and test 12 SMF and 12 MMF fiber to building fiber entrance.	Install 1 x Cisco 3750-24PS-E, RPS, and UPS per rack elevation  Decommission existing electronics after cutover.	<b>Certification Test Report (CDRL #5) As-Built TDP (CDRL #6)</b>	100% Certification of All Fiber/Copper Pass T&A PCA/FCA

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		9. Install patch panels, cable managers, fiber cabinet per rack elevation drawings/TDP. 10. Install and test 100 pair telephone tie cable onto patch panels (2 pair per RJ45) from 66/110 blocks in the room. 11. Install and fire-stop wall penetration sleeves as required per the TDP.			
3.1.3 3.1.4	SEA 1040-1C257	None	Decommission hospital equipment after the electronics cutover.	<b>Certification Test Report (CDRL #5)</b> <b>As-Built TDP (CDRL #6)</b>	100% Certification of All Fiber/Copper Pass T&A PCA/FCA
3.1.3 3.1.4	SEA 1040-1D209	None	Decommission hospital equipment after the electronics cutover	<b>Certification Test Report (CDRL #5)</b> <b>As-Built TDP (CDRL #6)</b>	100% Certification of All Fiber/Copper Pass T&A PCA/FCA
3.1.3 3.1.4	Bldg 1040, Rm 1F406	1. Install TMGB. 2. Install new 4/0 AWG telecommunications grounding backbone and terminate grounding system from SEA 1040-1F305A. 3. Test end to end for proper resistance. Test and record the ohm reading value using the Grounding and Bonding Testing Procedures.	None	<b>Certification Test Report (CDRL #5)</b> <b>As-Built TDP (CDRL #6)</b>	100% Certification of All Fiber/Copper Pass T&A PCA/FCA
3.1.3 3.1.4	Contingency Drops	1. Install up to an additional 20 quad wiring drops as required to support additional and/or new site requirements; drop	None	<b>Certification Test Report (CDRL #5)</b> <b>As-Built TDP (CDRL #6)</b>	100% Certification of All Fiber/Copper Pass T&A PCA/FCA

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		locations must be approved by AFMSA/SGRTT engineering team prior to deployment.			