APOGEE
Engineers | Architects

PROJECT SUBMITTAL REGISTER

Department of Veterans Affairs
Mather VA Medical Center
Renovation of Outpatient Pharmacy and HVAC
VA Project No. 612A4-19-016

Prepared by:
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VA | U.S. Department of Veterans Affairs

PROJECT:	**Renovation of Outpatient Pharmacy and HVAC**			SUBMITTAL REGISTER
LOCATION:	**Northern California VAHCS | Mather, CA**			
PROJECT NO:	**612A4-19-016 | 19-103**	CONTRACT NO:	**VA261-17-D-0102**	
CONTRACTOR:		TASK ORDER NO:	**36C26119N0727**	

Activity #	Transmittal #	**Paragraph #**	Description	Required Review by	CONTRACTOR SCHEDULE DATES			CONTRACTOR ACTION DATES			APPROVING AUTHORITY DATES					Remarks
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Spec Section 03 30 00 Cast-In-Place Concrete																
		1.6A	Submit in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, and SAMPLES.													
		1.6B	Shop Drawings: Reinforcing steel: Complete shop drawings													
		1.6C	Mill Test Reports:													
		1.6C.1	Reinforcing Steel.													
		1.6C.2	Cement.													
		1.6D	Manufacturer's Certificates:													
		1.6D.1	Abrasive aggregate.													
		1.6D.2	Lightweight aggregate for structural concrete.													
		1.6D.3	Air-entraining admixture.													
		1.6D.4	Chemical admixtures, including chloride ion content.													
		1.6D.5	Waterproof paper for curing concrete.													
		1.6D.6	Liquid membrane-forming compounds for curing concrete.													
		1.6D.7	Non-shrinking grout.													
		1.6D.8	Waterstops.													
		1.6D.9	Expansion joint filler.													
		1.6D.10	Adhesive binder.													
		1.6E	Testing Agency for Concrete Mix Design: Approval request including qualifications of principals and technicians and evidence of active participation in program of Cement and Concrete Reference Laboratory (CCRL) of National Institute of Standards and Technology.													

		1.6F	Test Report for Concrete Mix Designs: Trial mixes including water-cement fly ash ratio curves, concrete mix ingredients, and admixtures.													
		1.6G	Shoring and Reshoring Sequence: Submit for approval a shoring and reshoring sequence for flat slab/flat plate portions, prepared by a registered Professional Engineer. As a minimum, include timing of form stripping, reshoring, number of floors to be re-shored and timing of re-shore removal to serve as an initial outline of procedures subject to modification as construction progresses. Submit revisions to sequence, whether initiated by Resident Engineer (see FORMWORK) or Contractor.													

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Spec Section 03 41 13 PRECAST CONCRETE HOLLOW CORE PLANKS																
		1.4A	Submit in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.													
		1.4B	Shop Drawings: plank framing layout, anchorage, and installation details.													
		1.4C	Manufacturers Certificates: Stating plank conforms to specification requirements.													

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Spec Section 05 12 00 Structural Steel Framing																
		1.4A	Submittal Procedures: Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.													
		1.4B	Submittal Drawings:													
		1.4B.1	Show size, configuration, and fabrication and installation details.													
		1.4C	Test Reports: Certify products comply with specifications.													
		1.4C.1	Welders' qualifying tests.													
		1.4D	Certificates: Certify each product complies with specifications.													
		1.4D.1	Structural steel.													
		1.4D.2	Steel connections.													
		1.4D.3	Welding materials.													
		1.4D.4	Shop coat primer paint.													
		1.4E	Qualifications: Substantiate qualifications comply with specifications.													
		1.4E.1	Fabricator with project experience list.													
		1.4E.2	Installer with project experience list.													
		1.4E.3	Welders and welding procedures.													
		1.4F	Record Surveys: Signed and sealed by responsible surveyor or engineer.													

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Spec Section 05 31 00 Steel Decking																
		1.4A	Submittal Procedures: Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.													
		1.4B	Submittal Drawings:													
		1.4B.1	Show layout, connections to supporting members, anchorage, sump pans, accessories, deck openings and reinforcements.													
		1.4B.2	Show similar information necessary for completing installation as shown and specified, including supplementary framing, ridge and valley plates, cant strips, cut openings, special jointing or other accessories.													
		1.4B.3	Show welding, side lap, closure, deck reinforcing and closure reinforcing details.													
		1.4B.4	Show openings required for work of other trades, including openings not shown on structural drawings. Indicate where temporary shoring is required to satisfy design criteria.													
		1.4C	Manufacturer's Literature and Data:													
		1.4C.1	Description of each product.													
		1.4C.2	Show steel decking section properties and structural characteristics.													
		1.4D	Sustainable Construction Submittals:													
		1.4D.1	Recycled Content: Identify post-consumer and pre-consumer recycled content percentage by weight.													
		1.4E	Certificates: Certify each product complies with specifications.													

		1.4E.1	Fire Resistance Product Listing: For each metal deck type and thickness supporting concrete slab or fill.													

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Spec Section 05 40 00 Cold-Formed Metal Framing																
		1.4A	Submit in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES. All items indicated below are required submittals requiring Contracting Officer's Representative (COR) review and approval													
		1.4B	Shop Drawings: Shop and erection drawings showing steel unit layout, connections to supporting members, and information necessary to complete installation as shown and specified.													
		1.4C	Manufacturer's Literature and Data: Showing steel component sections and specifying structural characteristics.													
		1.4D	Design of the light gauge for this project shall be provided by the contractor's structural engineer for the loads shown on the construction documents. Submit signed and sealed calculations performed by a structural engineer with at least 5 years of experience in the design of light gauge metal and registered in the state of the project. Calculations shall be submitted with plans elevations and details for review and approval.													

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Spec Section 06 83 10 Composite Column Enclosures																
		1.5A	General: Submit the following in accordance with conditions of contract and Division 1 specification section 01 33 00 "Submittal Procedures".													
		1.5B	Product data and detailed specifications for each system component and installation accessory required, including installation methods.													
		1.5C	Shop drawings showing locations, seam locations, installation method, corner conditions and installation details of panel products.													
		1.5D	Samples for verification purposes: Submit the following samples, as proposed for this work, for verification of color, texture, pattern and thickness:													
		1.5E	Product test reports from a qualified independent testing laboratory showing compliance of each component with requirements indicated.													
		1.5F	Maintenance data for wall system components for inclusion in the operating and maintenance manuals specified in Division 1.													

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Spec Section 07 01 50.19 Preparation for Re-Roofing																
		1.5A	Submittal Procedures: Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.													
		1.5B	Submittal Drawings:													
		1.5B.1	Show size, configuration, and installation details.													
		1.5C	Manufacturer's Literature and Data:													
		1.5C.1	Description of each product.													
		1.5C.2	Description of temporary roof system and components.													
		1.5C.3	List of patching materials.													
		1.5C.4	Recover board fastening requirements.													
		1.5C.5	Temporary roofing installation instructions and removal instructions. preparation instructions to receive new roofing.													
		1.5C.6	Existing roofing warrantor's instructions provided by the COR.													
		1.5D	Photographs: Document existing conditions potentially affected by roofing operations before work begins.													
		1.5E	Field Inspection Reports:													
		1.5E.1	Certify warrantor inspected completed roofing and existing warranty remains in effect.													
		1.5F	Infrared Roof Moisture Survey Report.													

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Spec Section 07 21 13 Thermal Insulation																
		1.4A	Submittal Procedures: Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.													
		1.4B	Submittal Drawings:													
		1.4B.1	Show insulation type, thickness, and R-value for each location.													
		1.4C	Manufacturer's Literature and Data:													
		1.4C.1	Description of each product.													
		1.4C.2	Adhesive indicating manufacturer recommendation for each application.													
		1.4D	Sustainable Construction Submittals:													
		1.4D.1	Recycled Content: Identify post-consumer and pre-consumer recycled content percentage by weight.													
		1.4D.2	Low Pollutant-Emitting Materials:													
		1.4D.2a	Show volatile organic compound types and quantities.													

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Spec Section 07 22 00 Roof and Deck Insulation																
		1.4A	Submittal Procedures: Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.													
		1.4B	Submittal Drawings:													
		1.4B.1	Show size, configuration, and installation details.													
		1.4B.1a	Nailers, cants, and terminations.													
		1.4B.1b	Layout of insulation showing slopes, tapers, penetrations, and edge conditions.													
		1.4C	Manufacturer's Literature and Data:													
		1.4C.1	Description of each product.													
		1.4D	Samples:													
		1.4D.1	Roof insulation, each type.													
		1.4D.2	Fasteners, each type.													
		1.4E	Sustainable Construction Submittals:													
		1.4E.1	Recycled Content: Identify post-consumer and pre-consumer recycled content percentage by weight.													
		1.4E.2	Biobased Content:													
		1.4E.2a	Show type and quantity for each product.													
		1.4E.3	Low Pollutant-Emitting Materials:													
		1.4E.3a	Show volatile organic compound types and quantities.													
		1.4E.3b	Certify each and agrifiber product contain no added urea formaldehyde.													

Spec Section 07 22 00 Roof and Deck Insulation

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		1.4F	Qualifications: Substantiate qualifications meet specifications.													
		1.4F.1	Installer.													

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Spec Section 07 24 00 Exterior Insulation and Finish Systems																
		1.5A	Submittal Procedures: Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.													
		1.5B	Submittal Drawings:													
		1.5B.1	Show size, configuration, and fabrication and installation details.													
		1.5B.2	Show details for corner treatment, sills, soffits, dentils, quoins, lintels, openings, penetrations, flashing, and other special applications.													
		1.5C	Manufacturer's Literature and Data:													
		1.5C.1	Description of each product.													
		1.5C.2	Installation instructions.													
		1.5C.3	Warranty.													
		1.5D	Samples: Two 300 mm (1 foot) square samples of EIFS finishes over sheathing board identical to proposed installation in thickness, color, texture, insulation, and workmanship.													
		1.5E	Test reports: Certify each product and complete system complies with specifications.													
		1.5F	Qualifications: Substantiate qualifications comply with specifications.													
		1.5F.1	Installer with project experience list.													

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Spec Section 07 84 00 Firestopping																
		1.3A	Submit in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.													
		1.3B	Sustainable Design Submittals, as described below:													
		1.3B.1	Volatile organic compounds per volume as specified in PART 2 - PRODUCTS.													
		1.3C	Installer qualifications.													
		1.3D	Inspector qualifications.													
		1.3E	Manufacturers literature, data, and installation instructions for types of firestopping and smoke stopping used.													
		1.3F	List of FM, UL, or WH classification number of systems installed.													
		1.3G	Certified laboratory test reports for ASTM E814 tests for systems not listed by FM, UL, or WH proposed for use.													
		1.3H	Submit certificates from manufacturer attesting that firestopping materials comply with the specified requirements.													

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Spec Section 07 92 00 Joint Sealants																
		1.5A	Submit in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.													
		1.5B	Sustainable Design Submittals, as described below:													
		1.5B.1	Volatile organic compounds per volume as specified in PART 2 - PRODUCTS.													
		1.5C	Installer qualifications.													
		1.5D	Contractor certification.													
		1.5E	Manufacturer's installation instructions for each product used.													
		1.5F	Cured samples of exposed sealants for each color.													
		1.5G	Manufacturer's Literature and Data:													
		1.5G.1	Primers													
		1.5G.2	Sealing compound, each type, including compatibility when different sealants are in contact with each other.													
		1.5H	Manufacturer warranty.													

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Spec Section 07 95 13 Expansion Joint Cover Assemblies																
		1.5A	Submittal Procedures: Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.													
		1.5B	Submittal Drawings:													
		1.5B.1	Include large-scale details indicating profiles of each type of expansion joint cover, splice joints between joint sections, transitions to other assemblies, terminations, anchorages, fasteners, and relationship to adjoining work and finishes.													
		1.5B.2	Show size, configuration, and fabrication and installation details.													
		1.5B.3	Include composite drawings showing work specified in other Sections coordinated with expansion joints.													
		1.5C	Manufacturer's Literature and Data:													
		1.5C.1	Description of each product specified.													
		1.5C.2	Show movement capability of each cover assembly and suitability of material used in exterior seals for ultraviolet exposure.													
		1.5C.3	Description of materials and finishes.													
		1.5C.4	Installation instructions.													
		1.5D	Samples: Submit 300 mm (12 inch) long samples.													
		1.5D.1	Each type and color of metal finish for each required thickness and alloy.													
		1.5D.2	Each type and color of flexible seal.													

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		1.5E	Sustainable Construction Submittals:													
		1.5E.1	Recycled Content: Identify post-consumer and pre-consumer recycled content percentage by weight.													
		1.5E.2	Low Pollutant-Emitting Materials:													
		1.5E.2a	Identify volatile organic compound types and quantities.													
		1.5F	Qualifications: Substantiate qualifications comply with specifications.													
		1.5F.1	Installer with project experience list .													
		1.5G	Certificates: Indicate products comply with specifications.													
		1.5G.1	Fire rated expansion joint cover assemblies.													
		1.5H	Operation and Maintenance Data:													
		1.5H.1	Care instructions for each exposed finish product.													

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Spec Section 08 11 13 Hollow Metal Doors and Frames																
		1.4A	Submittal Procedures: Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.													
		1.4B	Submittal Drawings:													
		1.4B.1	Show size, configuration, and fabrication and installation details.													
		1.4C	Manufacturer's Literature and Data:													
		1.4C.1	Description of each product.													
		1.4C.2	Include schedule showing each door and frame requirements fire label and smoke control label for openings.													
		1.4C.3	Installation instructions.													
		1.4D	Sustainable Construction Submittals:													
		1.4D.1	Recycled Content: Identify post-consumer and pre-consumer recycled content percentage by weight.													
		1.4E	Test reports: Certify each product complies products comply with specifications.													
		1.4E.1	Sound rated door.													
		1.4F	Qualifications: Substantiate qualifications comply with specifications.													
		1.4F.1	Manufacturer with project experience list.													

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LOCATION:	**Northern California VAHCS | Mather, CA**			
PROJECT NO:	**612A4-19-016 | 19-103**	CONTRACT NO:	**VA261-17-D-0102**	
CONTRACTOR:		TASK ORDER NO:	**36C26119N0727**	

Activity #	Transmittal #	**Paragraph #**	Description	Required Review by	CONTRACTOR SCHEDULE DATES			CONTRACTOR ACTION DATES			APPROVING AUTHORITY DATES					Remarks
					Submit	Approval Needed By	Material Needed By	Action Code	Date of Action	Date FWD to APPR / Auth – Date RCD from CONTR	Date FWD to Other Revwr	Date RCD from Other Revwr	Action Code	Date of Action	Sent to CONTR/ Date RCD from APPR	
Spec Section 08 14 00 Interior Wood Doors																
		1.4A	Submittal Procedures: Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.													
		1.4B	Submittal Drawings:													
		1.4B.1	Show size, configuration, and fabrication and installation details.													
		1.4B.2	Include details of glazing and louvers.													
		1.4B.3	Indicate project specific requirements not included in Manufacturer's Literature and Data submittal.													
		1.4C	Manufacturer's Literature and Data:													
		1.4C.1	Description of each product.													
		1.4C.2	Fire rated doors showing conformance with NFPA 80.													
		1.4D	Samples:													
		1.4D.1	Corner section of flush veneered door 300 mm (12 inches) square, showing details of construction, labeled to show grade and type number and conformance to specified standard.													
		1.4D.2	Veneer sample 200 mm by 275 mm (8 inch by 11 inch) showing specified wood species sanded to receive a transparent finish. Factory finish veneer sample where the prefinished option is accepted.													
		1.4E	Sustainable Construction Submittals:													
		1.4E.1	Low Pollutant-Emitting Materials:													

		1.4E.1a	Show volatile organic compound types and quantities.													
		1.4F	Test Reports: Indicate each product complies products comply with specifications.													
		1.4F.1	Screw Holding Capacity Test.													
		1.4F.2	Cycle-Slam Test.													
		1.4F.3	Hinge-Loading Test.													
		1.4G	Operation and Maintenance Data:													
		1.4G.1	Care instructions for each exposed finish product.													

PROJECT:	**Renovation of Outpatient Pharmacy and HVAC**			SUBMITTAL REGISTER
LOCATION:	**Northern California VAHCS | Mather, CA**			
PROJECT NO:	**612A4-19-016 | 19-103**	CONTRACT NO:	**VA261-17-D-0102**	
CONTRACTOR:		TASK ORDER NO:	**36C26119N0727**	

Activity #	Transmittal #	**Paragraph #**	Description	Required Review by	CONTRACTOR SCHEDULE DATES			CONTRACTOR ACTION DATES			APPROVING AUTHORITY DATES					Remarks
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Spec Section 08 31 13 Access Doors and Frames																
		1.4A	Submittal Procedures: Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.													
		1.4B	Submittal Drawings:													
		1.4B.1	Show size, configuration, and fabrication and installation details.													
		1.4C	Manufacturer's Literature and Data:													
		1.4C.1	Description of each product.													
		1.4C.2	Installation instructions.													
		1.4D	Sustainable Construction Submittals:													
		1.4D.1	Recycled Content: Identify post-consumer and pre-consumer recycled content percentage by weight.													

PROJECT:	**Renovation of Outpatient Pharmacy and HVAC**		SUBMITTAL REGISTER
LOCATION:	**Northern California VAHCS | Mather, CA**		
PROJECT NO:	**612A4-19-016 | 19-103**	CONTRACT NO: **VA261-17-D-0102**	
CONTRACTOR:		TASK ORDER NO: **36C26119N0727**	

Activity #	Transmittal #	**Paragraph #**	Description	Required Review by	CONTRACTOR SCHEDULE DATES			CONTRACTOR ACTION DATES			APPROVING AUTHORITY DATES					Remarks
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Spec Section 08 34 53 Security Doors and Frames																
		1.5A	General: For each security door assembly, submit the following in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA AND SAMPLES.													
		1.5A.1	Product data for each element of work, whether purchased from other manufacturers or provided as door Fabricator's standard production. Include data substantiating that products comply with requirements of these specifications.													
		1.5A.2	Manufacturer's standard color chart.													
		1.5A.3	Certificates: Letter from manufacturer indicating the products have been certified to meet the specified ratings.													
		1.5A.4	Shop drawings showing each dimensioned details of each door assembly, including performance rating, swing, hardware set, and adjacent construction. Provide drawings on B-size 11 in x 17 inch (300 mm x 430 mm) sheets. Show typical door exterior elevations at not less than ¼ inch = 1 foot (1:50) scale. After final modifications and corrections have been incorporated into the drawings, submit drawings as AutoCAD files with DWG extension. Show the following:													
		1.5A.4a	Unit information:													

PROJECT:	Renovation of Outpatient Pharmacy and HVAC			SUBMITTAL REGISTER
LOCATION:	Northern California VAHCS | Mather, CA			
PROJECT NO:	612A4-19-016 | 19-103	CONTRACT NO:	VA261-17-D-0102	
CONTRACTOR:		TASK ORDER NO:	36C26119N0727	

		1.5A.4a .1	Model Number.														
		1.5A.4a .2	Ballistic resistant rating.														
		1.5A.4a .3	Marks (window no.).														
		1.5A.4a .4	Door/frame finish.														
		1.5A.4a .5	Door type.														
		1.5A.4b	Elevation Drawings:														
		1.5A.4b .1	Rough opening.														
		1.5A.4b .2	Door opening.														
		1.5A.4b .3	Frame opening.														
		1.5A.4b .4	Vision opening.														
		1.5A.4b .5	Finished floor.														
		1.5A.4b .6	Sill condition.														
		1.5A.4b .7	Reference numbers for primer and finish paint, including number of coats applies.														
		1.5A.4b .8	Door class rating: rated or non-rated.														
		1.5A.4b .9	Door and frame gauge thickness.														
		1.5A.4c	Plan drawings:														
		1.5A.4c .1	Relate to elevation on drawing.														
		1.5A.4c .2	Identify “Attack” and “Protected” sides.														
		1.5A.4c .3	Identify door swing (i.e., RH, LH, RHRB, LHRB).														
		1.5A.4c .4	Provide key on drawings.														
		1.5A.4c .5	Indicate room space numbers taken from Contract Drawings.														

		1.5A.4d	Details: Show section at not less than ¾ inch = 1 ft (1:20) scale of members indicating construction, size, and thickness of components, frame profile, location of conduit entry, threshold configuration, vision panel together with connections, fastenings, and means of separating dissimilar metals.													
		1.5A.4e	Breakdown of Product Line Items:													
		1.5A.4e .1	If Manufacturer produces one contract line item as several parts (door with transom and sidelights), they shall breakout items on drawings. Each item shall be a subdivision of that product line item number.													
		1.5A.4e .2	Installation instructions shall cite all anchorage components, including complete description of expansion anchor as well as installation criteria such as torque requirements, minimum embedment, and minimum edge distance, and shall include alert to installers to avoid cutting of rebar during concrete anchor installation.													

PROJECT:	**Renovation of Outpatient Pharmacy and HVAC**		SUBMITTAL REGISTER
LOCATION:	**Northern California VAHCS | Mather, CA**		
PROJECT NO:	**612A4-19-016 | 19-103**	CONTRACT NO: **VA261-17-D-0102**	
CONTRACTOR:		TASK ORDER NO: **36C26119N0727**	

Activity #	Transmittal #	**Paragraph #**	Description	Required Review by	CONTRACTOR SCHEDULE DATES			CONTRACTOR ACTION DATES			APPROVING AUTHORITY DATES					Remarks
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Spec Section 08 34 59 Vault Doors and Day Gates																
		1.4A	Submittal Procedures: Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.													
		1.4B	Submittal Drawings: Show size, configuration, and configuration and installation details.													
		1.4B.1	Vault door.													
		1.4B.2	Day gate.													
		1.4C	Manufacturer's Literature and Data:													
		1.4C.1	Description of each product.													
		1.4C.2	Installation instructions.													
		1.4D	Sustainable Construction Submittals:													
		1.4D.1	Recycled Content: Identify post-consumer and pre-consumer recycled content percentage by weight.													
		1.4E	Key change and combination changing instructions with copy of signed receipt.													

PROJECT:	**Renovation of Outpatient Pharmacy and HVAC**			SUBMITTAL REGISTER
LOCATION:	**Northern California VAHCS | Mather, CA**			
PROJECT NO:	**612A4-19-016 | 19-103**	CONTRACT NO:	**VA261-17-D-0102**	
CONTRACTOR:		TASK ORDER NO:	**36C26119N0727**	

Activity #	Transmittal #	**Paragraph #**	Description	Required Review by	CONTRACTOR SCHEDULE DATES			CONTRACTOR ACTION DATES			APPROVING AUTHORITY DATES					Remarks
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Spec Section 08 41 13 Aluminum-Framed Entrances and Storefronts																
		1.5A	Submittal Procedures: Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.													
		1.5B	Submittal Drawings: Minimum 1 to 2 (half size) scale.													
		1.5B.1	Show size, configuration, and fabrication and installation details.													
		1.5B.2	Show anchorage and reinforcement.													
		1.5B.3	Show interface and relationship to adjacent work, including thermal, air, and water barrier continuity.													
		1.5C	Manufacturer's Literature and Data:													
		1.5C.1	Description of each product.													
		1.5C.2	Doors, each type.													
		1.5C.3	Entrance and Storefront construction.													
		1.5C.4	Installation instructions.													
		1.5C.5	Warranty.													
		1.5D	Samples:													
		1.5D.1	Door Corner Section: Minimum 450 mm x 450 mm (18 x 18 inches) for each specified door type, showing head rail and hinge stile, door closer reinforcement.													
		1.5D.2	Aluminum Anodized Finish: wo sample extrusions minimum 150 mm (6 inches) long for each specified color in sets of three showing maximum color range.													

		1.5D.3	Aluminum Paint Finish: wo sample extrusions minimum 150 mm (6 inches) long for each specified color.													
		1.5E	Sustainable Construction Submittals:													
		1.5E.1	Recycled Content: Identify post-consumer and pre-consumer recycled content percentage by weight.													
		1.5F	Test reports: Certify products comply with specifications.													
		1.5G	Certificates: Certify products comply with specifications.													
		1.5G.1	Certify anodized finish thickness.													
		1.5H	Qualifications: Substantiate qualifications comply with specifications.													
		1.5H.1	Manufacturer with project experience list.													
		1.5H.2	Installer with project experience list.													
		1.5H.3	Welders and welding procedures.													
		1.5I	Delegated Design Drawings and Calculations: Signed and sealed by responsible design professional.													
		1.5I.1	Show location and magnitude of loads applied to building structural frame.													
		1.5I.2	Identify deviations from details shown on drawings.													
		1.5J	Operation and Maintenance Data:													
		1.5J.1	Care instructions for each exposed finish product.													

PROJECT:	**Renovation of Outpatient Pharmacy and HVAC**			SUBMITTAL REGISTER
LOCATION:	**Northern California VAHCS | Mather, CA**			
PROJECT NO:	**612A4-19-016 | 19-103**	CONTRACT NO:	**VA261-17-D-0102**	
CONTRACTOR:		TASK ORDER NO:	**36C26119N0727**	

Activity #	Transmittal #	**Paragraph #**	Description	Required Review by	CONTRACTOR SCHEDULE DATES			CONTRACTOR ACTION DATES			APPROVING AUTHORITY DATES					Remarks
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Spec Section 08 56 19 Pass Windows																
		1.4A	Submittal Procedures: Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.													
		1.4B	Submittal Drawings:													
		1.4B.1	Show size, configuration, and fabrication and installation details.													
		1.4C	Manufacturer's Literature and Data:													
		1.4C.1	Description of each product.													
		1.4C.2	Installation instructions.													
		1.4D	Samples:													
		1.4D.1	Exposed Finishes: 50 by 100 mm (2 by 4 inches), each type and color.													
		1.4E	Sustainable Construction Submittals:													
		1.4E.1	Recycled Content: Identify post-consumer and pre-consumer recycled content percentage by weight.													

PROJECT:	**Renovation of Outpatient Pharmacy and HVAC**		SUBMITTAL REGISTER
LOCATION:	**Northern California VAHCS | Mather, CA**		
PROJECT NO:	**612A4-19-016 | 19-103**	CONTRACT NO: **VA261-17-D-0102**	
CONTRACTOR:		TASK ORDER NO: **36C26119N0727**	

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Spec Section 08 56 59 Service and Teller Window Units																
		1.4A	Submittal Procedures: Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.													
		1.4B	Submittal Drawings: Service windows, showing design, construction and installation.													
		1.4B.1	Indicate size, configuration, and fabrication and installation details.													
		1.4B.2	Indicate bullet resistant reinforcing for metal components.													
		1.4C	Manufacturer's Literature and Data: Service windows.													
		1.4C.1	Description of each product.													
		1.4D	Sustainable Construction Submittals:													
		1.4D.1	Recycled Content: Identify post-consumer and pre-consumer recycled content percentage by weight.													
		1.4E	Test reports: Report bullet resistance level.													
		1.4F	Certificates: Certify products comply with specified bullet resistance rating.													

PROJECT:	**Renovation of Outpatient Pharmacy and HVAC**			SUBMITTAL REGISTER
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PROJECT NO:	**612A4-19-016 | 19-103**	CONTRACT NO:	**VA261-17-D-0102**	
CONTRACTOR:		TASK ORDER NO:	**36C26119N0727**	

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Spec Section 08 71 00 Door Hardware																
		1.6A	Submittals shall be in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA AND SAMPLES. Submit 6 copies of the schedule per Section 01 33 23. Submit 2 final copies of the final approved schedules to VAMC Locksmith as record copies (VISN Locksmith if the VAMC does not have a locksmith).														
		1.6B	Hardware Schedule: Prepare and submit hardware schedule in the following form:														

Hardware Item	Quantity	Size	Reference Publication Type No.	Finish	Mfr. Name and Catalog No.	Key Control Symbols	UL Mark (if fire rated and listed)	ANSI/BHMA Finish Designation

		1.6C	Samples and Manufacturers' Literature:														
		1.6C.1	Samples: All hardware items (proposed for the project) that have not been previously approved by Builders Hardware Manufacturers Association shall be submitted for approval. Tag and mark all items with manufacturer's name, catalog number and project number.														
Spec Section 08 71 00 Door Hardware																	

		1.6C.2	Samples are not required for hardware listed in the specifications by manufacturer's catalog number, if the contractor proposes to use the manufacturer's product specified.													
		1.6D	Certificate of Compliance and Test Reports: Submit certificates that hardware conforms to the requirements specified herein. Certificates shall be accompanied by copies of reports as referenced. The testing shall have been conducted either in the manufacturer's plant and certified by an independent testing laboratory or conducted in an independent laboratory, within four years of submittal of reports for approval.													

PROJECT:	**Renovation of Outpatient Pharmacy and HVAC**		SUBMITTAL REGISTER
LOCATION:	**Northern California VAHCS | Mather, CA**		
PROJECT NO:	**612A4-19-016 | 19-103**	CONTRACT NO: **VA261-17-D-0102**	
CONTRACTOR:		TASK ORDER NO: **36C26119N0727**	

Activity #	Transmittal #	**Paragraph #**	Description	Required Review by	CONTRACTOR SCHEDULE DATES			CONTRACTOR ACTION DATES			APPROVING AUTHORITY DATES					Remarks
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Spec Section 08 71 13.11 Low Energy Power Assist Door Operators																
		1.5A	Submittal Procedures: Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.													
		1.5B	Submittal Drawings:													
		1.5B.1	Show size, configuration, and fabrication and installation details.													
		1.5C	Manufacturer's Literature and Data:													
		1.5C.1	Description of each product.													
		1.5C.2	Maintenance manuals.													
		1.5C.3	Installation instructions.													
		1.5C.4	Warranty.													
		1.5D	Certificates: Certify each product complies products comply with specifications.													
		1.5D.1	Show door operator is UL Listed for specified application.													
		1.5E	Operation and Maintenance Data:													
		1.5E.1	Care instructions for each exposed finish product.													
		1.5E.2	Start-up, maintenance, troubleshooting, emergency, and shut-down instructions for each operational product.													

PROJECT:	**Renovation of Outpatient Pharmacy and HVAC**			SUBMITTAL REGISTER
LOCATION:	**Northern California VAHCS | Mather, CA**			
PROJECT NO:	**612A4-19-016 | 19-103**	CONTRACT NO:	**VA261-17-D-0102**	
CONTRACTOR:		TASK ORDER NO:	**36C26119N0727**	

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Spec Section 08 71 13 Automatic Door Operators																
		1.4A	Submittal Procedures: Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.													
		1.4B	Submittal Drawings:													
		1.4B.1	Show size, configuration, and fabrication and installation details.													
		1.4C	Manufacturer's Literature and Data:													
		1.4C.1	Description of each product.													
		1.4C.2	Installation instructions.													
		1.4C.3	Warranty.													
		1.4D	Sustainable Construction Submittals:													
		1.4D.1	Recycled Content: Identify post-consumer and pre-consumer recycled content percentage by weight.													
		1.4E	Test reports: Certify each product complies with specifications.													
		1.4F	Qualifications: Substantiate qualifications comply with specifications.													
		1.4F.1	Manufacturer with project experience list.													
		1.4F.2	Installer with project experience list.													
		1.4G	Operation and Maintenance Data:													
		1.4G.1	Care instructions for each exposed finish product.													
		1.4G.2	Start-up, maintenance, troubleshooting, emergency, and shut-down instructions for each operational product.													

PROJECT:	**Renovation of Outpatient Pharmacy and HVAC**			SUBMITTAL REGISTER
LOCATION:	**Northern California VAHCS | Mather, CA**			
PROJECT NO:	**612A4-19-016 | 19-103**	CONTRACT NO:	**VA261-17-D-0102**	
CONTRACTOR:		TASK ORDER NO:	**36C26119N0727**	

Activity #	Transmittal #	**Paragraph #**	Description	Required Review by	CONTRACTOR SCHEDULE DATES			CONTRACTOR ACTION DATES			APPROVING AUTHORITY DATES					Remarks
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Spec Section 08 80 00 Glazing																
		1.5A	In accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.													
		1.5B	Sustainable Design Submittals, as described below:													
		1.5B.1	Volatile organic compounds per volume as specified in PART 2 - PRODUCTS.													
		1.5C	Manufacturer's Certificates:													
		1.5C.1	Certificate stating that fire-protection and fire-resistive glazing units meet code requirements for fire-resistance-rated assembly and applicable safety glazing requirements.													
		1.5C.2	Certificate on solar heat gain coefficient when value is specified.													
		1.5C.3	Certificate on "R" value when value is specified.													
		1.5C.4	Certificate test reports confirming compliance with specified bullet resistive rating.													
		1.5C.5	Certificate that blast resistant glass meets the specified requirements													
		1.5D	Manufacturer Warranty.													
		1.5E	Manufacturer's Literature and Data:													
		1.5E.1	Glass, each kind required.													
		1.5E.2	Glazing cushion													
		1.5E.3	Sealing compound.													
		1.5E.4	Bullet resistive material.													
		1.5E.5	Plastic glazing material, each type required.													
		1.5F	Samples:													

		1.5F.1	Size: 305 mm by 305 mm (12 inches by 12 inches).													
		1.5F.2	Clear glass.													
		1.5G	Preconstruction Adhesion and Compatibility Test Report: Submit glazing sealant manufacturer's test report indicating glazing sealants were tested for adhesion to glass and glazing channel substrates and for compatibility with glass and other glazing materials.													

PROJECT:	**Renovation of Outpatient Pharmacy and HVAC**			SUBMITTAL REGISTER
LOCATION:	**Northern California VAHCS | Mather, CA**			
PROJECT NO:	**612A4-19-016 | 19-103**	CONTRACT NO:	**VA261-17-D-0102**	
CONTRACTOR:		TASK ORDER NO:	**36C26119N0727**	

Activity #	Transmittal #	**Paragraph #**	Description	Required Review by	CONTRACTOR SCHEDULE DATES			CONTRACTOR ACTION DATES			APPROVING AUTHORITY DATES					Remarks
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Spec Section 09 05 16 Subsurface Preparation for Floor Finishes																
		1.3A	Submit in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA and TEST DATA.													
		1.3B	Written approval confirming product compatibility with subfloor material manufacturer and the flooring manufacturer													
		1.3C	Product Data:													
		1.3C.1	Moisture remediation system													
		1.3C.2	Underlayment Primer													
		1.3C.3	Cementitious Self-Leveling Underlayment													
		1.3C.4	Cementitious Trowel-Applied Underlayment (Not suitable for resinous floor finishes)													
		1.3D	Test Data:													
		1.3D.1	Moisture test and pH results performed by a qualified independent testing agency or warranty holding manufacturer's technical representative.													

PROJECT:	**Renovation of Outpatient Pharmacy and HVAC**			SUBMITTAL REGISTER
LOCATION:	**Northern California VAHCS | Mather, CA**			
PROJECT NO:	**612A4-19-016 | 19-103**	CONTRACT NO:	**VA261-17-D-0102**	
CONTRACTOR:		TASK ORDER NO:	**36C26119N0727**	

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Spec Section 09 06 00 Schedule for Finishes																
		1.3A	Submit in accordance with SECTION 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES—provide duplicate samples for color approval of materials and finishes specified in this section.													

PROJECT:	**Renovation of Outpatient Pharmacy and HVAC**		SUBMITTAL REGISTER
LOCATION:	**Northern California VAHCS | Mather, CA**		
PROJECT NO:	**612A4-19-016 | 19-103**	CONTRACT NO: **VA261-17-D-0102**	
CONTRACTOR:		TASK ORDER NO: **36C26119N0727**	

Activity #	Transmittal #	**Paragraph #**	Description	Required Review by	CONTRACTOR SCHEDULE DATES			CONTRACTOR ACTION DATES			APPROVING AUTHORITY DATES					Remarks
					Submit	Approval Needed By	Material Needed By	Action Code	Date of Action	Date FWD to APPR / Auth – Date RCD from CONTR	Date FWD to Other Revwr	Date RCD from Other Revwr	Action Code	Date of Action	Sent to CONTR/ Date RCD from APPR	
Spec Section 09 22 16 Non-Structural Metal Framing																
		1.4A	Submit in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.													
		1.4B	Manufacturer's Literature and Data:													
		1.4B.1	Studs, runners and accessories.													
		1.4B.2	Hanger inserts.													
		1.4B.3	Channels (Rolled steel).													
		1.4B.4	Furring channels.													
		1.4B.5	Screws, clips and other fasteners.													
		1.4C	Shop Drawings:													
		1.4C.1	Typical ceiling suspension system.													
		1.4C.2	Typical metal stud and furring construction system including details around openings and corner details.													
		1.4C.3	Typical shaft wall assembly													
		1.4C.4	Typical fire rated assembly and column fireproofing showing details of construction same as that used in fire rating test.													
		1.4D	Test Results: Fire rating test designation, each fire rating required for each assembly.													

PROJECT:	**Renovation of Outpatient Pharmacy and HVAC**		SUBMITTAL REGISTER
LOCATION:	**Northern California VAHCS | Mather, CA**		
PROJECT NO:	**612A4-19-016 | 19-103**	CONTRACT NO: **VA261-17-D-0102**	
CONTRACTOR:		TASK ORDER NO: **36C26119N0727**	

Activity #	Transmittal #	**Paragraph #**	Description	Required Review by	CONTRACTOR SCHEDULE DATES			CONTRACTOR ACTION DATES			APPROVING AUTHORITY DATES					Remarks
					Submit	Approval Needed By	Material Needed By	Action Code	Date of Action	Date FWD to APPR / Auth – Date RCD from CONTR	Date FWD to Other Revwr	Date RCD from Other Revwr	Action Code	Date of Action	Sent to CONTR/ Date RCD from APPR	
Spec Section 09 29 00 Gypsum Board																
		1.4A	Submit in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.													
		1.4B	Manufacturer's Literature and Data:													
		1.4B.1	Cornerbead and edge trim.													
		1.4B.2	Finishing materials.													
		1.4B.3	Laminating adhesive.													
		1.4B.4	Gypsum board, each type.													
		1.4C	Shop Drawings:													
		1.4C.1	Typical gypsum board installation, showing corner details, edge trim details and the like.													
		1.4C.2	Typical sound rated assembly, showing treatment at perimeter of partitions and penetrations at gypsum board.													
		1.4C.3	Typical shaft wall assembly.													
		1.4C.4	Typical fire rated assembly and column fireproofing, indicating details of construction same as that used in fire rating test.													
		1.4D	Samples:													
		1.4D.1	Cornerbead.													
		1.4D.2	Edge trim.													
		1.4D.3	Control joints.													
		1.4E	Test Results:													
		1.4E.1	Fire rating test, each fire rating required for each assembly.													
		1.4E.2	Sound rating test.													

PROJECT:	**Renovation of Outpatient Pharmacy and HVAC**		SUBMITTAL REGISTER
LOCATION:	**Northern California VAHCS | Mather, CA**		
PROJECT NO:	**612A4-19-016 | 19-103**	CONTRACT NO: **VA261-17-D-0102**	
CONTRACTOR:		TASK ORDER NO: **36C26119N0727**	

		1.4F	Certificates: Certify that gypsum board types, gypsum backing board types, cementitious backer units, and joint treating materials do not contain asbestos material.													

PROJECT:	**Renovation of Outpatient Pharmacy and HVAC**			SUBMITTAL REGISTER
LOCATION:	**Northern California VAHCS | Mather, CA**			
PROJECT NO:	**612A4-19-016 | 19-103**	CONTRACT NO:	**VA261-17-D-0102**	
CONTRACTOR:		TASK ORDER NO:	**36C26119N0727**	

Activity #	Transmittal #	**Paragraph #**	Description	Required Review by	CONTRACTOR SCHEDULE DATES			CONTRACTOR ACTION DATES			APPROVING AUTHORITY DATES					Remarks
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Spec Section 09 30 13 Ceramic/Porcelain Tiling																
		1.3A	Submit in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.													
		1.3B	Sustainable Design Submittals as described below:													
		1.3B.1	Volatile organic compounds per volume as specified in PART 2 - PRODUCTS.													
		1.3C	Samples:													
		1.3C.1	Porcelain tile, each type, color, patterns and size.													
		1.3C.2	Wall (or wainscot) tile, each color, size and pattern.													
		1.3C.3	Metal edge strips in 6-inch lengths													
		1.3D	Product Data:													
		1.3D.1	Ceramic, glass, and porcelain tile, marked to show each type, size, and shape required.													
		1.3D.2	Chemical resistant mortar and grout (epoxy).													
		1.3D.3	Divider strip.													
		1.3D.4	Elastomeric membrane and bond coat.													
		1.3D.5	Reinforcing tape.													
		1.3D.6	Leveling compound.													
		1.3D.7	Latex-portland cement mortar and grout.													
		1.3D.8	Fasteners.													
		1.3E	Shop Drawings:													
		1.3E.1	Layout of patterns as shown on the construction documents.													
		1.3E.2	Edge strip locations showing types and detail cross sections.													

		1.3F	Certification:													
		1.3F.1	Master grade certificate, ANSI A137.1.													
		1.3F.2	Manufacturer's certificates indicating that the following materials comply with specification requirements:													
		1.3F.2a	Elastomeric membrane and bond coat.													
		1.3F.2b	Reinforcing tape.													
		1.3F.2c	Latex-portland cement mortar and grout.													
		1.3F.2d	Leveling compound.													
		1.3G	Installer Qualifications:													
		1.3G.1	Submit letter stating installer’s experience.													

PROJECT:	**Renovation of Outpatient Pharmacy and HVAC**			SUBMITTAL REGISTER
LOCATION:	**Northern California VAHCS | Mather, CA**			
PROJECT NO:	**612A4-19-016 | 19-103**	CONTRACT NO:	**VA261-17-D-0102**	
CONTRACTOR:		TASK ORDER NO:	**36C26119N0727**	

Activity #	Transmittal #	**Paragraph #**	Description	Required Review by	CONTRACTOR SCHEDULE DATES			CONTRACTOR ACTION DATES			APPROVING AUTHORITY DATES					Remarks
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Spec Section 09 51 00 Acoustical Ceilings																
		1.5A	Submittal Procedures: Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.													
		1.5B	Submittal Drawings:													
		1.5B.1	Show size, configuration, and fabrication and installation details.													
		1.5C	Manufacturer's Literature and Data:													
		1.5C.1	Description of each product.													
		1.5C.2	Ceiling suspension system indicating manufacturer recommendation for each application.													
		1.5C.3	Installation instructions.													
		1.5C.4	Warranty.													
		1.5D	Samples:													
		1.5D.1	Acoustical units, 150 mm (6 inches) in size, each type, including units specified to match existing.													
		1.5D.1a	Submit quantity required to show full color and texture range.													
		1.5D.2	Suspension system, trim and molding, 300 mm (12 inches) long.													
		1.5D.3	Colored markers for access service.													
		1.5D.4	Approved samples may be incorporated into work.													
		1.5E	Sustainable Construction Submittals:													
		1.5E.1	Recycled Content: Identify post-consumer and pre-consumer recycled content percentage by weight.													
		1.5E.2	Biobased Content:													

PROJECT:	**Renovation of Outpatient Pharmacy and HVAC**			SUBMITTAL REGISTER
LOCATION:	**Northern California VAHCS | Mather, CA**			
PROJECT NO:	**612A4-19-016 | 19-103**	CONTRACT NO:	**VA261-17-D-0102**	
CONTRACTOR:		TASK ORDER NO:	**36C26119N0727**	

		1.5E.2a	Show type and quantity for each product.														
		1.5E.2b	Show volatile organic compound types and quantities.														
		1.5F	Certificates: Certify products comply with specifications.														
		1.5F.1	Acoustical units, each type.														
		1.5G	Qualifications: Substantiate qualifications comply with specifications.														
		1.5G.1	Manufacturer with project experience list.														
		1.5H	Operation and Maintenance Data:														
		1.5H.1	Care instructions for each exposed finish product.														

PROJECT:	**Renovation of Outpatient Pharmacy and HVAC**			SUBMITTAL REGISTER
LOCATION:	**Northern California VAHCS | Mather, CA**			
PROJECT NO:	**612A4-19-016 | 19-103**	CONTRACT NO:	**VA261-17-D-0102**	
CONTRACTOR:		TASK ORDER NO:	**36C26119N0727**	

Activity #	Transmittal #	**Paragraph #**	Description	Required Review by	CONTRACTOR SCHEDULE DATES			CONTRACTOR ACTION DATES			APPROVING AUTHORITY DATES					Remarks
					Submit	Approval Needed By	Material Needed By	Action Code	Date of Action	Date FWD to APPR / Auth – Date RCD from CONTR	Date FWD to Other Revwr	Date RCD from Other Revwr	Action Code	Date of Action	Sent to CONTR/ Date RCD from APPR	
Spec Section 09 65 13 Resilient Base and Accessories																
		1.4A	Submittal Procedures: Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.													
		1.4B	Manufacturer's Literature and Data:													
		1.4B.1	Description of each product.													
		1.4B.2	Adhesives and primers indicating manufacturer's recommendation for each application.													
		1.4B.3	Installation instructions.													
		1.4C	Samples:													
		1.4C.1	Resilient Base: 150 mm (6 inches) long, each type and color.													
		1.4D	Sustainable Construction Submittals:													
		1.4D.1	Recycled Content: Identify post-consumer and pre-consumer recycled content percentage by weight.													
		1.4D.2	Low Pollutant-Emitting Materials:													
		1.4D.2a	Show volatile organic compound types and quantities.													
		1.4E	Operation and Maintenance Data:													
		1.4E.1	Care instructions for each exposed finish product.													

PROJECT:	**Renovation of Outpatient Pharmacy and HVAC**			SUBMITTAL REGISTER
LOCATION:	**Northern California VAHCS | Mather, CA**			
PROJECT NO:	**612A4-19-016 | 19-103**	CONTRACT NO:	**VA261-17-D-0102**	
CONTRACTOR:		TASK ORDER NO:	**36C26119N0727**	

Activity #	Transmittal #	**Paragraph #**	Description	Required Review by	CONTRACTOR SCHEDULE DATES			CONTRACTOR ACTION DATES			APPROVING AUTHORITY DATES					Remarks
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Spec Section 09 65 16 Resilient Sheet Flooring																
		1.4A	Submittal Procedures: Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.													
		1.4A.1	Show size, configuration, and fabrication and installation details.													
		1.4B	Manufacturer's Literature and Data:													
		1.4B.1	Description of each product.													
		1.4B.2	Installation instructions.													
		1.4B.3	Warranty.													
		1.4C	Samples:													
		1.4C.1	Sheet material, 150 mm by 300 mm (6 inch by 12 inch), of each color													
		1.4C.2	Welding rod: 150mm (6 inches) long for each color.													
		1.4C.3	Cap strip and fillet strip, 300 mm (12 inches) for integral base.													
		1.4C.4	Shop Drawings and Certificates: Layout of joints showing patterns where joints are expressed, and type and location of obscure type joints. Indicate orientation of directional patterns.													
		1.4C.5	Certificates: Quality Control Certificate Submittals and lists specified in paragraph, QUALIFICATIONS.													
		1.4C.6	Edge strips: 150 mm (6 inches) long each type.													
		1.4C.7	Primer: Pint container, each type.													
		1.4D	Sustainable Construction Submittals:													
		1.4D.1	Low Pollutant-Emitting Materials:													
		1.4D.1a	Sheet Flooring: Submit FloorScore label.													

		1.4D.1b	Identify volatile organic compound types and quantities.													
		1.4E	Certificates: Certify products comply with specifications.													
		1.4E.1	Heat welded seaming is manufacturer's prescribed method of installation.													
		1.4F	Qualifications: Substantiate qualifications comply with specifications.													
		1.4F.1	Manufacturer with project experience list.													
		1.4F.2	Installer with project experience list.													

PROJECT:	**Renovation of Outpatient Pharmacy and HVAC**			SUBMITTAL REGISTER
LOCATION:	**Northern California VAHCS | Mather, CA**			
PROJECT NO:	**612A4-19-016 | 19-103**	CONTRACT NO:	**VA261-17-D-0102**	
CONTRACTOR:		TASK ORDER NO:	**36C26119N0727**	

Activity #	Transmittal #	**Paragraph #**	Description	Required Review by	CONTRACTOR SCHEDULE DATES			CONTRACTOR ACTION DATES			APPROVING AUTHORITY DATES					Remarks
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Spec Section 09 65 19 Resilient Tile Flooring																
		1.3A	Submit in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.													
		1.3B	Sustainable Design Submittals as described below:													
		1.3B.1	Volatile organic compounds per volume as described in PART 2 - PRODUCTS.													
		1.3B.2	Postconsumer and pre-consumer recycled content as described in PART 2 - PRODUCTS.													
		1.3C	Manufacturer's Literature and Data:													
		1.3C.1	Description of each product.													
		1.3C.2	Resilient material manufacturer’s recommendations for adhesives, underlayment, primers, and polish.													
		1.3C.3	Application, installation and maintenance instructions.													
		1.3D	Samples:													
		1.3D.1	Tile: Each type, color, thickness and finish.													
		1.3D.2	Edge Strips: Each type, color, thickness and finish.													
		1.3D.3	Feature Strips: Each type, color, thickness and finish.													
		1.3E	Shop Drawings:													
		1.3E.1	Layout of patterns as shown on the construction documents.													
		1.3E.2	Edge strip locations showing types and detail cross sections.													
		1.3F	Test Reports:													

		1.3F.1	Abrasion resistance: Depth of wear for each tile type and color and volume loss of tile, certified by independent laboratory. Tested per ASTM F510/F510M.													
		1.3F.2	Moisture and pH test results as per Section 09 05 16, SUBSURFACE PREPARATION FOR FLOOR FINISHES.													

PROJECT:	**Renovation of Outpatient Pharmacy and HVAC**		SUBMITTAL REGISTER
LOCATION:	**Northern California VAHCS | Mather, CA**		
PROJECT NO:	**612A4-19-016 | 19-103**	CONTRACT NO: **VA261-17-D-0102**	
CONTRACTOR:		TASK ORDER NO: **36C26119N0727**	

Activity #	Transmittal #	**Paragraph #**	Description	Required Review by	CONTRACTOR SCHEDULE DATES			CONTRACTOR ACTION DATES			APPROVING AUTHORITY DATES					Remarks
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Spec Section 09 91 00 Painting																
		1.3A	Submit in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.													
		1.3B	Sustainable Design Submittals as described below:													
		1.3B.1	Volatile organic compounds per volume as specified in PART 2 - PRODUCTS.													
		1.3C	Painter qualifications.													
		1.3D	Manufacturer's Literature and Data:													
		1.3D.1	Before work is started, or sample panels are prepared, submit manufacturer's literature and technical data, the current Master Painters Institute (MPI) "Approved Product List" indicating brand label, product name and product code as of the date of contract award, will be used to determine compliance with the submittal requirements of this specification. The Contractor may choose to use subsequent MPI "Approved Product List", however, only one (1) list may be used for the entire contract and each coating system is to be from a single manufacturer. All coats on a particular substrate must be from a single manufacturer. No variation from the MPI "Approved Product List" where applicable is acceptable.													
		1.3E	Sample Panels:													
		1.3E.1	After painters' materials have been approved and before work is started, submit sample panels showing each type of finish and color specified.													
Spec Section 09 91 00 Painting																

		1.3E.2	Panels to Show Color: Composition board, 100 x 250 mm (4 x 10 inch).														
		1.3E.3	Panel to Show Transparent Finishes: Wood of same species and grain pattern as wood approved for use, 100 x 250 mm (4 x 10 inch face) minimum, and where both flat and edge grain will be exposed, 250 mm (10 inches) long by sufficient size, 50 x 50 mm (2 x 2 inch) minimum or actual wood member to show complete finish.														
		1.3E.4	Attach labels to panel stating the following:														
		1.3E.4a	Federal Specification Number or manufacturers name and product number of paints used.														
		1.3E.4b	Specification code number specified in Section 09 06 00, SCHEDULE FOR FINISHES.														
		1.3E.4c	Product type and color.														
		1.3E.4d	Name of project.														
		1.3E.5	Strips showing not less than 50 mm (2 inch) wide strips of undercoats and 100 mm (4 inch) wide strip of finish coat.														
		1.3F	Sample of identity markers if used.														
		1.3G	Manufacturers' Certificates indicating compliance with specified requirements:														
		1.3G.1	Manufacturer's paint substituted for Federal Specification paints meets or exceeds performance of paint specified.														
		1.3G.2	High temperature aluminum paint.														
		1.3G.3	Epoxy coating.														
		1.3G.4	Intumescent clear coating or fire-retardant paint.														
		1.3G.5	Plastic floor coating.														

PROJECT:	**Renovation of Outpatient Pharmacy and HVAC**			SUBMITTAL REGISTER
LOCATION:	**Northern California VAHCS | Mather, CA**			
PROJECT NO:	**612A4-19-016 | 19-103**	CONTRACT NO:	**VA261-17-D-0102**	
CONTRACTOR:		TASK ORDER NO:	**36C26119N0727**	

Activity #	Transmittal #	**Paragraph #**	Description	Required Review by	CONTRACTOR SCHEDULE DATES			CONTRACTOR ACTION DATES			APPROVING AUTHORITY DATES					Remarks
					Submit	Approval Needed By	Material Needed By	Action Code	Date of Action	Date FWD to APPR / Auth – Date RCD from CONTR	Date FWD to Other Revwr	Date RCD from Other Revwr	Action Code	Date of Action	Sent to CONTR/ Date RCD from APPR	
Spec Section 10 14 00 Signage																
		1.4A	Submit in accordance with Section 01 33 00, SHOP DRAWINGS, PRODUCT DATA AND SAMPLES.													
		1.4B	Sustainable Design Submittals, as described below:													
		1.4B.1	Volatile organic compounds per volume as specified in PART 2 - PRODUCTS.													
		1.4C	Interior Sign Samples: Sign panels and frames, with letters and symbols, for each sign type.													
		1.4C.1	Sign Panel, 203 x 254 mm (8 x 10 inches), with letters.													
		1.4C.2	Color samples of each color, 152 x 152 mm (6 x 6 inches. Show anticipated range of color and texture.													
		1.4C.3	Sample of typeface, arrow and symbols in a typical full-size layout.													
		1.4D	Manufacturer's Literature:													
		1.4D.1	Showing the methods and procedures proposed for the anchorage of the signage system to each surface type.													
		1.4D.2	Manufacturer’s printed specifications and maintenance instructions.													
		1.4E	Sign Location Plan, showing location, type and total number of signs required.													
		1.4F	Shop Drawings: Scaled for manufacture and fabrication of sign types. Identify materials, show joints, welds, anchorage, accessory items, mounting and finishes.													

PROJECT:	**Renovation of Outpatient Pharmacy and HVAC**		SUBMITTAL REGISTER
LOCATION:	**Northern California VAHCS | Mather, CA**		
PROJECT NO:	**612A4-19-016 | 19-103**	CONTRACT NO: **VA261-17-D-0102**	
CONTRACTOR:		TASK ORDER NO: **36C26119N0727**	

		1.4G	Full size layout patterns for dimensional letters.													
		1.4H	Manufacturer's qualifications.													
		1.4I	Installer's qualifications.													

PROJECT:	**Renovation of Outpatient Pharmacy and HVAC**			SUBMITTAL REGISTER
LOCATION:	**Northern California VAHCS | Mather, CA**			
PROJECT NO:	**612A4-19-016 | 19-103**	CONTRACT NO:	**VA261-17-D-0102**	
CONTRACTOR:		TASK ORDER NO:	**36C26119N0727**	

Activity #	Transmittal #	**Paragraph #**	Description	Required Review by	CONTRACTOR SCHEDULE DATES			CONTRACTOR ACTION DATES			APPROVING AUTHORITY DATES					Remarks
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Spec Section 10 26 00 Wall and Door Protection																
		1.4A	Submit in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.													
		1.4B	Sustainable Design Submittals, as described below:													
		1.4B.1	Volatile organic compounds per volume as specified in PART 2 - PRODUCTS.													
		1.4C	Shop Drawings: show design, locations and installation details.													
		1.4D	Manufacturer's Literature and Data:													
		1.4D.1	**Handrail.**													
		1.4D.2	**Corner Guards.**													
		1.4D.3	**High Impact Wall covering.**													
		1.4E	Test Report: Showing that resilient material complies with specified fire and safety code requirements.													
		1.4F	Manufacturer’s qualifications.													
		1.4G	Installer’s qualifications.													
		1.4H	Manufacturer’s warranty.													

PROJECT:	**Renovation of Outpatient Pharmacy and HVAC**			SUBMITTAL REGISTER
LOCATION:	**Northern California VAHCS | Mather, CA**			
PROJECT NO:	**612A4-19-016 | 19-103**	CONTRACT NO:	**VA261-17-D-0102**	
CONTRACTOR:		TASK ORDER NO:	**36C26119N0727**	

Activity #	Transmittal #	**Paragraph #**	Description	Required Review by	CONTRACTOR SCHEDULE DATES			CONTRACTOR ACTION DATES			APPROVING AUTHORITY DATES					Remarks
					Submit	Approval Needed By	Material Needed By	Action Code	Date of Action	Date FWD to APPR / Auth – Date RCD from CONTR	Date FWD to Other Revwr	Date RCD from Other Revwr	Action Code	Date of Action	Sent to CONTR/ Date RCD from APPR	
Spec Section 10 28 00 Toilet, Bath, and Laundry Accessories																
		1.4A	Submittal Procedures: Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.													
		1.4B	Submittal Drawings:													
		1.4B.1	Show size, configuration, and fabrication, anchorage, and installation details.													
		1.4B.2	Show mounting locations and heights.													
		1.4C	Manufacturer's Literature and Data:													
		1.4C.1	Description of each product.													
		1.4C.2	Installation instructions.													
		1.4D	Certificates: Certify each product complies with specifications.													
		1.4D.1	Soap dispensers: Certify soap dispensers are fabricated of material that will not be affected by liquid soap, aseptic detergents, and hexachlorophene solutions.													
		1.4E	Qualifications: Substantiate qualifications comply with specifications.													
		1.4E.1	Manufacturer with project experience list.													
		1.4F	Operation and Maintenance Data:													
		1.4F.1	Care instructions for each exposed finish product.													

PROJECT:	**Renovation of Outpatient Pharmacy and HVAC**			SUBMITTAL REGISTER
LOCATION:	**Northern California VAHCS | Mather, CA**			
PROJECT NO:	**612A4-19-016 | 19-103**	CONTRACT NO:	**VA261-17-D-0102**	
CONTRACTOR:		TASK ORDER NO:	**36C26119N0727**	

Activity #	Transmittal #	**Paragraph #**	Description	Required Review by	CONTRACTOR SCHEDULE DATES			CONTRACTOR ACTION DATES			APPROVING AUTHORITY DATES					Remarks
					Submit	Approval Needed By	Material Needed By	Action Code	Date of Action	Date FWD to APPR / Auth – Date RCD from CONTR	Date FWD to Other Revwr	Date RCD from Other Revwr	Action Code	Date of Action	Sent to CONTR/ Date RCD from APPR	
Spec Section 10 44 13 Fire Extinguisher Cabinets																
		1.2A	Submit in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.													
		1.2B	Manufacturer's Literature and Data: Fire extinguisher cabinet including installation instruction and rough opening required.													

PROJECT:	**Renovation of Outpatient Pharmacy and HVAC**			SUBMITTAL REGISTER
LOCATION:	**Northern California VAHCS | Mather, CA**			
PROJECT NO:	**612A4-19-016 | 19-103**	CONTRACT NO:	**VA261-17-D-0102**	
CONTRACTOR:		TASK ORDER NO:	**36C26119N0727**	

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Spec Section 10 56 13 Metal Storage Shelves																
		1.6A	Product Data: Submit manufacturer's product literature and installation instructions for each type of cantilever shelving required. Include data substantiating that products to be furnished comply with requirements of the contract documents.													
		1.6B	Shop Drawings: Show fabrication, assembly, and installation details including descriptions of procedures and diagrams. Show complete extent of cantilever shelving installation layout including quantities, locations and types of accessory units required. Include notations and descriptions of all installation items and components.													
		1.6B.1	Show installation details at non-standard conditions, if any.													
		1.6B.2	Provide layout, dimensions, and identification of each unit corresponding to sequence of installation and erection procedures.													
		1.6B.3	Provide installation schedule and complete erection procedures to ensure proper installation.													
		1.6C	Samples: Provide minimum 3 inch (76MM) square example of each color and texture on actual substrate for each component to remain exposed after installation.													

Spec Section 10 56 13 Metal Storage Shelves

PROJECT:	**Renovation of Outpatient Pharmacy and HVAC**			SUBMITTAL REGISTER	
LOCATION:	**Northern California VAHCS | Mather, CA**				
PROJECT NO:	**612A4-19-016 | 19-103**	CONTRACT NO:	**VA261-17-D-0102**		
CONTRACTOR:		TASK ORDER NO:	**36C26119N0727**		

		1.6D	Selection Samples: For initial selection of colors and textures, submit manufacturer's color charts consisting of actual product pieces, showing full range of colors and textures available.														
		1.6E	Warranty: Submit draft copy of proposed warranty for review by the COR.														
		1.6F	Maintenance Data: Provide in form suitable for inclusion in maintenance manuals for cantilever shelving. Data shall include operating and maintenance instructions, parts inventory listing, purchase source listing, emergency instructions, and similar information.														
		1.6F.1	Submit manufacturer's instructions for proper maintenance materials and procedures.														
		1.6F.2	Submit manufacturer's printed instructions for maintenance of installed work, including methods and frequency recommended for maintaining optimum condition under anticipated use conditions. Include precautions against using materials and methods, which may be detrimental to finishes and performance.														
		1.6G	Reference List: Provide a list of recently installed cantilever shelving to be visited by owner, architect, and contractor. Intent of list is to aid in verifying the suitability of manufacturer's products and comparison with materials and product specified in this section.														

PROJECT:	**Renovation of Outpatient Pharmacy and HVAC**			SUBMITTAL REGISTER
LOCATION:	**Northern California VAHCS | Mather, CA**			
PROJECT NO:	**612A4-19-016 | 19-103**	CONTRACT NO:	**VA261-17-D-0102**	
CONTRACTOR:		TASK ORDER NO:	**36C26119N0727**	

Activity #	Transmittal #	**Paragraph #**	Description	Required Review by	CONTRACTOR SCHEDULE DATES			CONTRACTOR ACTION DATES			APPROVING AUTHORITY DATES					Remarks
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Spec Section 11 17 36 Package Transfer Units																
		1.3A	Submit in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA AND SAMPLES.													
		1.3B	Shop Drawings: Show material and finish, size of members, and details of construction, installation, and anchorage:													
		1.3B.1	Package transfer box													
		1.3B.2	Pressurized Pass-through window													
		1.3C	Manufacturer's Literature and Data:													
		1.3C.1	Package transfer box													
		1.3C.2	Pressurized Pass through window													
		1.3D	Certificates: Letter from manufacturer indicating the products have been certified to meet the specified ratings.													

PROJECT:	**Renovation of Outpatient Pharmacy and HVAC**			SUBMITTAL REGISTER
LOCATION:	**Northern California VAHCS | Mather, CA**			
PROJECT NO:	**612A4-19-016 | 19-103**	CONTRACT NO:	**VA261-17-D-0102**	
CONTRACTOR:		TASK ORDER NO:	**36C26119N0727**	

Activity #	Transmittal #	**Paragraph #**	Description	Required Review by	CONTRACTOR SCHEDULE DATES			CONTRACTOR ACTION DATES			APPROVING AUTHORITY DATES					Remarks
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Spec Section 12 32 00 Manufactured Wood Casework																
		1.3A	Submit in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.													
		1.3B	Manufacturer's Literature and Data:													
		1.3B.1	Casework hardware.													
		1.3C	Samples:													
		1.3C.1	Plastic laminate.													
		1.3D	Shop Drawings (1/2 full size):													
		1.3D.1	Each casework type, showing details of construction, including materials, hardware and accessories.													
		1.3D.2	Fastenings and method of installation.													
		1.3E	Certification:													
		1.3E.1	Manufacturer’s qualifications specified.													
		1.3E.2	Installer’s qualifications specified.													

PROJECT:	**Renovation of Outpatient Pharmacy and HVAC**			SUBMITTAL REGISTER
LOCATION:	**Northern California VAHCS | Mather, CA**			
PROJECT NO:	**612A4-19-016 | 19-103**	CONTRACT NO:	**VA261-17-D-0102**	
CONTRACTOR:		TASK ORDER NO:	**36C26119N0727**	

Activity #	Transmittal #	**Paragraph #**	Description	Required Review by	CONTRACTOR SCHEDULE DATES			CONTRACTOR ACTION DATES			APPROVING AUTHORITY DATES					Remarks
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Spec Section 12 36 00 Countertops																
		1.3A	Submit in accordance with SECTION 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.													
		1.3B	Shop Drawings													
		1.3B.1	Show dimensions of section and method of assembly.													
		1.3B.2	Show details of construction at a scale of ½ inch to a foot.													
		1.3C	Samples:													
		1.3C.1	150 mm (6 inch) square samples each top.													
		1.3C.2	Front edge, back splash, end splash and core with surface material and booking.													

PROJECT:	**Renovation of Outpatient Pharmacy and HVAC**			SUBMITTAL REGISTER
LOCATION:	**Northern California VAHCS | Mather, CA**			
PROJECT NO:	**612A4-19-016 | 19-103**	CONTRACT NO:	**VA261-17-D-0102**	
CONTRACTOR:		TASK ORDER NO:	**36C26119N0727**	

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Spec Section 13 05 41 Seismic Restraint Requirements For Non-Structural Components																
		1.4A	Submit a coordinated set of equipment anchorage drawings prior to installation including:													
		1.4A.1	Description, layout, and location of items to be anchored or braced with anchorage or brace points noted and dimensioned.													
		1.4A.2	Details of anchorage or bracing at large scale with all members, parts brackets shown, together with all connections, bolts, and welds. clearly identified and specified.													
		1.4A.3	Numerical value of design seismic brace loads.													
		1.4A.4	For expansion bolts, include design load and capacity if different from those specified.													
		1.4B	Submit prior to installation, a coordinated set of bracing drawings for seismic protection of piping, with data identifying the various support-to-structure connections and seismic bracing structural connections, include:													
		1.4B.1	Single-line piping diagrams on a floor-by-floor basis. Show all suspended piping for a given floor on the same plain.													
		1.4B.2	Type of pipe (Copper, steel, cast iron, insulated, non-insulated).													
		1.4B.3	Pipe contents.													
		1.4B.4	Structural framing.													
		1.4B.5	Location of all gravity load pipe supports and spacing requirements.													
		1.4B.6	Numerical value of gravity load reactions.													

		1.4B.7	Location of all seismic bracing.														
		1.4B.8	Numerical value of applied seismic brace loads.														
		1.4B.9	Type of connection (Vertical support, vertical support with seismic brace).														
		1.4B.10	Seismic brace reaction type (tension or compression): Details illustrating all support and bracing components, methods of connections, and specific anchors to be used.														
		1.4C	Submit prior to installation, bracing drawings for seismic protection of suspended ductwork and suspended electrical and communication cables, include:														
		1.4C.1	Details illustrating all support and bracing components, methods of connection, and specific anchors to be used.														
		1.4C.2	Numerical value of applied gravity and seismic loads and seismic loads acting on support and bracing components.														
		1.4C.3	Maximum spacing of hangers and bracing.														
		1.4C.4	Seal of registered structural engineer responsible for design.														
		1.4D	Submit design calculations prepared and sealed by the registered structural engineer specified above in paragraph 1.3A.														
		1.4E	Submit for concrete anchors, the appropriate ICBC evaluation reports, OSHPD pre-approvals, or lab test reports verifying compliance with OSHPD Interpretation of Regulations 28-6.														

PROJECT:	**Renovation of Outpatient Pharmacy and HVAC**			SUBMITTAL REGISTER
LOCATION:	**Northern California VAHCS | Mather, CA**			
PROJECT NO:	**612A4-19-016 | 19-103**	CONTRACT NO:	**VA261-17-D-0102**	
CONTRACTOR:		TASK ORDER NO:	**36C26119N0727**	

Activity #	Transmittal #	**Paragraph #**	Description	Required Review by	CONTRACTOR SCHEDULE DATES			CONTRACTOR ACTION DATES			APPROVING AUTHORITY DATES					Remarks
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Spec Section 21 13 13 Wet-Pipe Sprinkler Systems																
		1.4A	Submit as one package in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES. Prepare detailed working drawings that are signed by a NICET Level III or Level IV Sprinkler Technician or stamped by a Registered Professional Engineer licensed in the field of Fire Protection Engineering. As the Government review is for technical adequacy only, the installer remains responsible for correcting any conflicts with other trades and building construction that arise during installation. Partial submittals will not be accepted. Material submittals shall be approved prior to the purchase or delivery to the job site. Suitably bind submittals in notebooks or binders and provide an index referencing the appropriate specification section. In addition to the hard copies, provide submittal items in Paragraphs 1.4(A) 1 through 1.4(A) 5 electronically in pdf format on a compact disc or as directed by the COR. Submittals shall include the following:													
		1.4A.1	Qualifications:													
		1.4A.1a	Provide a copy of the installing contractors fire sprinkler and state contractor's license.													

PROJECT:	**Renovation of Outpatient Pharmacy and HVAC**			SUBMITTAL REGISTER
LOCATION:	**Northern California VAHCS | Mather, CA**			
PROJECT NO:	**612A4-19-016 | 19-103**	CONTRACT NO:	**VA261-17-D-0102**	
CONTRACTOR:		TASK ORDER NO:	**36C26119N0727**	

		1.4A.1b	Provide a copy of the NICET certification for the NICET Level III or Level IV Sprinkler Technician who prepared and signed the detailed working drawings unless the drawings are stamped by a Registered Professional Engineer licensed in the field of Fire Protection Engineering.													
		1.4A.1c	Provide documentation showing that the installer has been actively and successfully engaged in the installation of commercial automatic sprinkler systems for the past ten years.													
		1.4A.2	Drawings: Submit detailed 1:100 (1/8 inch) scale (minimum) working drawings conforming to the Plans and Calculations chapter of NFPA 13. Drawings shall include graphical scales that allow the user to determine lengths when the drawings are reduced in size. Include a plan showing the piping to the water supply test location.													
		1.4A.3	Manufacturer's Data Sheets: Provide data sheets for all materials and equipment proposed for use on the system. Include listing information and installation instructions in data sheets. Where data sheets describe items in addition to those proposed to be used for the system, clearly identify the proposed items on the sheet.													
		1.4A.4	Calculation Sheets:													
		1.4A.4a	Submit hydraulic calculation sheets in tabular form conforming to the requirements and recommendations of the Plans and Calculations chapter of NFPA 13.													
		1.4A.4b	Submit calculations of loads for sizing of sway bracing in accordance with NFPA 13.													
		1.4A.5	Valve Charts: Provide a valve chart that identifies the location of each control valve. Coordinate nomenclature and identification of control valves with COR. Where existing nomenclature does not exist, the chart shall include no less than the following: Tag ID No., Valve Size, Service (control valve, main drain, aux. drain, inspectors test valve) and Location.													

PROJECT:	**Renovation of Outpatient Pharmacy and HVAC**			SUBMITTAL REGISTER
LOCATION:	**Northern California VAHCS | Mather, CA**			
PROJECT NO:	**612A4-19-016 | 19-103**	CONTRACT NO:	**VA261-17-D-0102**	
CONTRACTOR:		TASK ORDER NO:	**36C26119N0727**	

		1.4A.6	Final Document Submittals: Provide as-built drawings, testing and maintenance instructions in accordance with the requirements in Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES. In addition, submittals shall include the following:													
		1.4A.6a	A complete set of as-built drawings showing the installed system with the specific interconnections between the system switches and the fire alarm equipment. Provide a complete set in the formats as follows. Submit items 2 and 3 below on a compact disc or as directed by the COR.													
		1.4A.6a .1	One full size (or size as directed by the COR) printed copy.													
		1.4A.6a .2	One complete set in electronic pdf format.													
		1.4A.6a .3	One complete set in AutoCAD format or a format as directed by the COR.													
		1.4A.6b	Material and Testing Certificate: Upon completion of the sprinkler system installation or any partial section of the system, including testing and flushing, provide a copy of a completed Material and Testing Certificate as indicated in NFPA 13. Certificates shall be provided to document all parts of the installation.													
		1.4A.6c	Operations and Maintenance Manuals that include step-by-step procedures required for system startup, operation, shutdown, and routine maintenance and testing. The manuals shall include the manufacturer's name, model number, parts list, and tools that should be kept in stock by the owner for routine maintenance, including the name of a local supplier, simplified wiring and controls diagrams, troubleshooting guide, and recommended service organization, including address and telephone number, for each item of equipment.													

		1.4A.6d	One paper copy of the Material and Testing Certificates and the Operations and Maintenance Manuals above shall be provided in a binder. In addition, these materials shall be provided in pdf format on a compact disc or as directed by the COR.													
		1.4A.6e	Provide one additional copy of the Operations and Maintenance Manual covering the system in a flexible protective cover and mount in an accessible location adjacent to the riser or as directed by the COR.													

PROJECT:	**Renovation of Outpatient Pharmacy and HVAC**		SUBMITTAL REGISTER
LOCATION:	**Northern California VAHCS | Mather, CA**		
PROJECT NO:	**612A4-19-016 | 19-103**	CONTRACT NO: **VA261-17-D-0102**	
CONTRACTOR:		TASK ORDER NO: **36C26119N0727**	

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Spec Section 22 05 11 Common Work Results For Plumbing																
		1.4A	Submittals, including number of required copies, shall be submitted in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, and SAMPLES.													
		1.4B	Information and material submitted under this section shall be marked "SUBMITTED UNDER SECTION 22 05 11, COMMON WORK RESULTS FOR PLUMBING", with applicable paragraph identification.													
		1.4C	Contractor shall make all necessary field measurements and investigations to assure that the equipment and assemblies will meet contract requirements and will fit the space available.													
		1.4D	If equipment is submitted which differs in arrangement from that shown, provide drawings that show the rearrangement of all associated systems. Approval will be given only if all features of the equipment and associated systems, including accessibility, are equivalent to that required by the contract.													
		1.4E	Prior to submitting shop drawings for approval, contractor shall certify in writing that manufacturers of all major items of equipment have each reviewed drawings and specifications and have jointly coordinated and properly integrated their equipment and controls to provide a complete and efficient installation.													

		1.4F	Installing Contractor shall provide lists of previous installations for selected items of equipment. Contact persons who will serve as references, with telephone numbers and e-mail addresses shall be submitted with the references.													
		1.4G	Manufacturer's Literature and Data: Manufacturer’s literature shall be submitted under the pertinent section rather than under this section.													
		1.4G.1	Equipment and materials identification.													
		1.4G.2	Firestopping materials.													
		1.4G.3	Hangers, inserts, supports and bracing. Provide load calculations for variable spring and constant support hangers.													
		1.4G.4	Wall, floor, and ceiling plates.													
		1.4H	Submittals and shop drawings for interdependent items, containing applicable descriptive information, shall be furnished together and complete in a group. Coordinate and properly integrate materials and equipment in each group to provide a completely compatible and efficient installation. Final review and approvals will be made only by groups.													
		1.4I	Maintenance Data and Operating Instructions:													
		1.4I.1	Maintenance and operating manuals in accordance with Section 01 00 00, GENERAL REQUIREMENTS, Article, INSTRUCTIONS, for systems and equipment. Include complete list indicating all components of the systems with diagrams of the internal wiring for each item of equipment.													
		1.4I.2	Include listing of recommended replacement parts for keeping in stock supply, including sources of supply, for equipment shall be provided. The listing shall include belts for equipment: Belt manufacturer, model number, size and style, and distinguished whether of multiple belt sets.													

PROJECT:	**Renovation of Outpatient Pharmacy and HVAC**			SUBMITTAL REGISTER
LOCATION:	**Northern California VAHCS | Mather, CA**			
PROJECT NO:	**612A4-19-016 | 19-103**	CONTRACT NO:	**VA261-17-D-0102**	
CONTRACTOR:		TASK ORDER NO:	**36C26119N0727**	

Activity #	Transmittal #	**Paragraph #**	Description	Required Review by	CONTRACTOR SCHEDULE DATES			CONTRACTOR ACTION DATES			APPROVING AUTHORITY DATES					Remarks
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Spec Section 22 05 23 General-Duty Valves for Plumbing Piping																
		1.4A	Submittals, including number of required copies, shall be submitted in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, and SAMPLES.													
		1.4B	Information and material submitted under this section shall be marked "SUBMITTED UNDER SECTION 22 05 23, GENERAL-DUTY VALVES FOR PLUMBING PIPING", with applicable paragraph identification.													
		1.4C	Manufacturer's Literature and Data Including: Full item description and optional features and accessories. Include dimensions, weights, materials, applications, standard compliance, model numbers, size, and capacity.													
		1.4C.1	Ball Valves.													
		1.4C.2	Butterfly Valves.													
		1.4C.3	Check Valves.													
		1.4C.4	Thermostatic Mixing Valves.													
		1.4D	Complete operating and maintenance manuals including technical data sheets and information for ordering replaceable parts:													
		1.4D.1	Include complete list indicating all components of the systems.													
		1.4D.2	Piping diagrams of thermostatic mixing valves to be installed.													

PROJECT:	**Renovation of Outpatient Pharmacy and HVAC**			SUBMITTAL REGISTER
LOCATION:	**Northern California VAHCS | Mather, CA**			
PROJECT NO:	**612A4-19-016 | 19-103**	CONTRACT NO:	**VA261-17-D-0102**	
CONTRACTOR:		TASK ORDER NO:	**36C26119N0727**	

Activity #	Transmittal #	**Paragraph #**	Description	Required Review by	CONTRACTOR SCHEDULE DATES			CONTRACTOR ACTION DATES			APPROVING AUTHORITY DATES					Remarks
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Spec Section 22 05 33 Heat Tracing for Plumbing Piping																
		1.4A	Submittals, including number of required copies, shall be submitted in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, and SAMPLES.													
		1.4B	Information and material submitted under this section shall be marked "SUBMITTED UNDER SECTION 22 05 33, HEAT TRACING FOR PLUMBING PIPING", with applicable paragraph identification.													
		1.4C	Manufacturer's Literature and Data including: Full item description and optional features and accessories. Include dimensions, weights, materials, applications, standard compliance, model numbers, size, and capacity.													
		1.4C.1	Rated capacity.													
		1.4C.2	Length of cable.													
		1.4C.3	Cable spacing.													
		1.4C.4	Electrical power requirements.													
		1.4C.5	Controls.													
		1.4C.6	Enclosures.													
		1.4C.7	Accessories.													
		1.4D	The shop drawings shall include plans, sections, details, wiring diagrams, and attachments to other work. The wiring diagrams shall include power, signal, and control wiring.													
		1.4E	Field quality control test reports shall be submitted.													
		1.4F	Operation and Maintenance data in accordance with article 1.6.													

PROJECT:	**Renovation of Outpatient Pharmacy and HVAC**			SUBMITTAL REGISTER
LOCATION:	**Northern California VAHCS | Mather, CA**			
PROJECT NO:	**612A4-19-016 | 19-103**	CONTRACT NO:	**VA261-17-D-0102**	
CONTRACTOR:		TASK ORDER NO:	**36C26119N0727**	

Activity #	Transmittal #	**Paragraph #**	Description	Required Review by	CONTRACTOR SCHEDULE DATES			CONTRACTOR ACTION DATES			APPROVING AUTHORITY DATES					Remarks
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Spec Section 22 07 11 Plumbing Insulation																
		1.4A	Submittals, including number of required copies, shall be submitted in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.													
		1.4B	Information and material submitted under this section shall be marked "SUBMITTED UNDER SECTION 22 07 11, PLUMBING INSULATION", with applicable paragraph identification.													
		1.4C	Manufacturer's Literature and Data including: Full item description and optional features and accessories. Include dimensions, weights, materials, applications, standard compliance, model numbers, size, and capacity.													
		1.4D	Shop Drawings:													
		1.4D.1	All information, clearly presented, shall be included to determine compliance with drawings and specifications and ASTM Designation, Federal and Military specifications.													
		1.4D.1a	Insulation materials: Specify each type used and state surface burning characteristics.													
		1.4D.1b	Insulation facings and jackets: Each type used and state surface burning characteristics.													
		1.4D.1c	Insulation accessory materials: Each type used.													
		1.4D.1d	Manufacturer's installation and fitting fabrication instructions for flexible unicellular insulation shall follow the guidelines in accordance with ASTM C1710.													

		1.4D.1e	Make reference to applicable specification paragraph numbers for coordination.													
		1.4D.1f	All insulation fittings (exception flexible unicellular insulation) shall be fabricated in accordance with ASTM C450 and the referenced Adjunct to ASTM C450.													

PROJECT:	**Renovation of Outpatient Pharmacy and HVAC**			SUBMITTAL REGISTER
LOCATION:	**Northern California VAHCS | Mather, CA**			
PROJECT NO:	**612A4-19-016 | 19-103**	CONTRACT NO:	**VA261-17-D-0102**	
CONTRACTOR:		TASK ORDER NO:	**36C26119N0727**	

Activity #	Transmittal #	**Paragraph #**	Description	Required Review by	CONTRACTOR SCHEDULE DATES			CONTRACTOR ACTION DATES			APPROVING AUTHORITY DATES					Remarks
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Spec Section 22 11 00 Facility Water Distribution																
		1.4A	Submittals, including number of required copies, shall be submitted in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.													
		1.4B	Information and material submitted under this section shall be marked "SUBMITTED UNDER SECTION 22 11 00, FACILITY WATER DISTRIBUTIONS", with applicable paragraph identification.													
		1.4C	Manufacturer's Literature and Data including full item description and optional features and accessories. Include dimensions, weights, materials, applications, standard compliance, model numbers, size, and capacity.													
		1.4C.1	All items listed in Part 2 - Products.													
		1.4D	Complete operating and maintenance manuals including wiring diagrams, technical data sheets and information for ordering replacement parts:													
		1.4D.1	Include complete list indicating all components of the systems.													
		1.4D.2	Include complete diagrams of the internal wiring for each item of equipment.													
		1.4D.3	Diagrams shall have their terminals identified to facilitate installation, operation, and maintenance.													

PROJECT:	**Renovation of Outpatient Pharmacy and HVAC**			SUBMITTAL REGISTER
LOCATION:	**Northern California VAHCS | Mather, CA**			
PROJECT NO:	**612A4-19-016 | 19-103**	CONTRACT NO:	**VA261-17-D-0102**	
CONTRACTOR:		TASK ORDER NO:	**36C26119N0727**	

Activity #	Transmittal #	**Paragraph #**	Description	Required Review by	CONTRACTOR SCHEDULE DATES			CONTRACTOR ACTION DATES			APPROVING AUTHORITY DATES					Remarks
					Submit	Approval Needed By	Material Needed By	Action Code	Date of Action	Date FWD to APPR / Auth – Date RCD from CONTR	Date FWD to Other Revwr	Date RCD from Other Revwr	Action Code	Date of Action	Sent to CONTR/ Date RCD from APPR	
Spec Section 22 13 00 Facility Sanitary and Vent Piping																
		1.4A	Submittals, including number of required copies, shall be submitted in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, and SAMPLES.													
		1.4B	Information and material submitted under this section shall be marked "SUBMITTED UNDER SECTION 22 13 00, FACILITY SANITARY AND VENT PIPING", with applicable paragraph identification.													
		1.4C	Manufacturer's Literature and Data including: Full item description and optional features and accessories. Include dimensions, weights, materials, applications, standard compliance, model numbers, size, and capacity.													
		1.4C.1	Piping.													
		1.4C.2	Cleanouts.													
		1.4C.3	Penetration Sleeves.													
		1.4C.4	Pipe Fittings.													
		1.4C.5	Traps.													
		1.4C.6	Exposed Piping and Fittings.													
		1.4D	Detailed shop drawing of clamping device and extensions when required in connection with the waterproofing membrane or the floor drain.													

PROJECT:	**Renovation of Outpatient Pharmacy and HVAC**			SUBMITTAL REGISTER
LOCATION:	**Northern California VAHCS | Mather, CA**			
PROJECT NO:	**612A4-19-016 | 19-103**	CONTRACT NO:	**VA261-17-D-0102**	
CONTRACTOR:		TASK ORDER NO:	**36C26119N0727**	

Activity #	Transmittal #	**Paragraph #**	Description	Required Review by	CONTRACTOR SCHEDULE DATES			CONTRACTOR ACTION DATES			APPROVING AUTHORITY DATES					Remarks
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Spec Section 22 40 00 Plumbing Fixtures																
		1.4A	Submittals, including number of required copies, shall be submitted in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.													
		1.4B	Information and material submitted under this section shall be marked "SUBMITTED UNDER SECTION 22 40 00, PLUMBING FIXTURES", with applicable paragraph identification.													
		1.4C	Manufacturer's Literature and Data including Full item description and optional features and accessories. Include dimensions, weights, materials, applications, standard compliance, model numbers, size, connections, and capacity.													
		1.4D	Operating Instructions: Comply with requirements in Section 01 00 00, GENERAL REQUIREMENTS.													

PROJECT:	**Renovation of Outpatient Pharmacy and HVAC**			SUBMITTAL REGISTER
LOCATION:	**Northern California VAHCS | Mather, CA**			
PROJECT NO:	**612A4-19-016 | 19-103**	CONTRACT NO:	**VA261-17-D-0102**	
CONTRACTOR:		TASK ORDER NO:	**36C26119N0727**	

Activity #	Transmittal #	**Paragraph #**	Description	Required Review by	CONTRACTOR SCHEDULE DATES			CONTRACTOR ACTION DATES			APPROVING AUTHORITY DATES					Remarks
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Spec Section 23 05 11 Common Work Results For HVAC																
		1.4A	Submittals, including number of required copies, shall be submitted in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.													
		1.4B	Information and material submitted under this section shall be marked "SUBMITTED UNDER SECTION 23 05 11, COMMON WORK RESULTS FOR HVAC", with applicable paragraph identification.													
		1.4C	Contractor shall make all necessary field measurements and investigations to assure that the equipment and assemblies will meet contract requirements, and all equipment that requires regular maintenance, calibration, etc are accessable from the floor or permanent work platform. It is the Contractor's responsibility to ensure all submittals meet the VA specifications and requirements and it is assumed by the VA that all submittals do meet the VA specifications unless the Contractor has requested a variance in writing and approved by COR prior to the submittal. If at any time during the project it is found that any item does not meet the VA specifications and there was no variance approval the Contractor shall correct at no additional cost or time to the Government even if a submittal was approved.													

		1.4D	If equipment is submitted which differs in arrangement from that shown, provide documentation proving equivalent performance, design standards and drawings that show the rearrangement of all associated systems. Additionally, any impacts on ancillary equipment or services such as foundations, piping, and electrical shall be the Contractor's responsibility to design, supply, and install at no additional cost or time to the Government. VA approval will be given only if all features of the equipment and associated systems, including accessibility, are equivalent to that required by the contract.													
		1.4E	Prior to submitting shop drawings for approval, Contractor shall certify in writing that manufacturers of all major items of equipment have each reviewed contract documents, and have jointly coordinated and properly integrated their equipment and controls to provide a complete and efficient installation.													
		1.4F	Submittals and shop drawings for interdependent items, containing applicable descriptive information, shall be furnished together. Coordinate and properly integrate materials and equipment to provide a completely compatible and efficient installation.													
		1.4G	Samples: Samples will not be required, except for where materials offered differ from specification requirements. Samples shall be accompanied by full description of characteristics different from specification. The Government, at the Government's expense, will perform evaluation and testing if necessary. The Contractor may submit samples of additional material at the Contractor's option; however, if additional samples of materials are submitted later, pursuant to Government request, adjustment in contract price and time will be made.													
		1.4H	Coordination/Shop Drawings:													

PROJECT:	Renovation of Outpatient Pharmacy and HVAC			SUBMITTAL REGISTER
LOCATION:	Northern California VAHCS | Mather, CA			
PROJECT NO:	612A4-19-016 | 19-103	CONTRACT NO:	VA261-17-D-0102	
CONTRACTOR:		TASK ORDER NO:	36C26119N0727	

		1.4H.1	Submit complete consolidated and coordinated shop drawings for all new systems, and for existing systems that are in the same areas.													
		1.4H.2	The coordination/shop drawings shall include plan views, elevations and sections of all systems and shall be on a scale of not less than 1:32 (3/8-inch equal to one foot). Clearly identify and dimension the proposed locations of the principal items of equipment. The drawings shall clearly show locations and adequate clearance for all equipment, piping, valves, control panels and other items. Show the access means for all items requiring access for operations and maintenance. Provide detailed coordination/shop drawings of all piping and duct systems. The drawings should include all lockout/tagout points for all energy/hazard sources for each piece of equipment. Coordinate lockout/tagout procedures and practices with local VA requirements.													
		1.4H.3	Do not install equipment foundations, equipment or piping until coordination/shop drawings have been approved.													
		1.4H.4	In addition, for HVAC systems, provide details of the following:													
		1.4H.4a	Hangers, inserts, supports, and bracing.													
		1.4H.4b	Pipe sleeves.													
		1.4H.4c	Duct or equipment penetrations of floors, walls, ceilings, or roofs.													
		1.4I	Manufacturer's Literature and Data: Include full item description and optional features and accessories. Include dimensions, weights, materials, applications, standard compliance, model numbers, size, and capacity. Submit under the pertinent section rather than under this section.													
		1.4I.1	Submit belt drive with the driven equipment. Submit selection data for specific drives when requested by the COR.													
		1.4I.2	Submit electric motor data and variable speed drive data with the driven equipment.													
		1.4I.3	Equipment and materials identification.													

		1.4I 4	Fire-stopping materials.													
		1.4I.5	Hangers, inserts, supports and bracing. Provide complete stress analysis for variable spring and constant support hangers.													
		1.4I.6	Wall, floor, and ceiling plates.													
		1.4J	Rigging Plan: Provide documentation of the capacity and weight of the rigging and equipment intended to be used. The plan shall include the path of travel of the load, the staging area and intended access, and qualifications of the operator and signal person.													
		1.4K	HVAC Maintenance Data and Operating Instructions:													
		1.4K.1	Maintenance and operating manuals in accordance with Section 01 00 00, GENERAL REQUIREMENTS, Article, INSTRUCTIONS, for systems and equipment.													
		1.4K.2	Complete operating and maintenance manuals including wiring diagrams, technical data sheets, information for ordering replacement parts, and troubleshooting guide:													
		1.4K.2a	Include complete list indicating all components of the systems.													
		1.4K.2b	Include complete diagrams of the internal wiring for each item of equipment.													
		1.4K.2c	Diagrams shall have their terminals identified to facilitate installation, operation and maintenance.													
		1.4K.3	Provide a listing of recommended replacement parts for keeping in stock supply, including sources of supply, for equipment. Include in the listing belts for equipment: Belt manufacturer, model number, size and style, and distinguished whether of multiple belt sets.													
		1.4L	Provide copies of approved HVAC equipment submittals to the TAB and Commissioning Subcontractor.													

		1.4M	Completed System Readiness Checklist provided by the Commissioning Agent and completed by the Contractor, signed by a qualified technician and dated on the date of completion, in accordance with the requirements of Section 23 08 00, COMMISSIONING OF HVAC SYSTEMS.													
		1.4N	Submit training plans and instructor qualifications in accordance with the requirements of Section 23 08 00, COMMISSIONING OF HVAC SYSTEMS.													

PROJECT:	**Renovation of Outpatient Pharmacy and HVAC**			SUBMITTAL REGISTER
LOCATION:	**Northern California VAHCS | Mather, CA**			
PROJECT NO:	**612A4-19-016 | 19-103**	CONTRACT NO:	**VA261-17-D-0102**	
CONTRACTOR:		TASK ORDER NO:	**36C26119N0727**	

Activity #	Transmittal #	**Paragraph #**	Description	Required Review by	CONTRACTOR SCHEDULE DATES			CONTRACTOR ACTION DATES			APPROVING AUTHORITY DATES					Remarks
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Spec Section 23 05 12 General Motor Requirements for HVAC and Steam Generation Equipment																
		1.4A	Submittals, including number of required copies, shall be submitted in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.													
		1.4B	Information and material submitted under this section shall be marked "SUBMITTED UNDER SECTION 23 05 12, GENERAL MOTOR REQUIREMENTS FOR HVAC AND STEAM GENERATION EQUIPMENT", with applicable paragraph identification.													
		1.4C	Submit motor submittals with driven equipment.													
		1.4D	Shop Drawings:													
		1.4D.1	Provide documentation to demonstrate compliance with contract documents.													
		1.4D.2	Motor nameplate information shall be submitted including electrical ratings, efficiency, bearing data, power factor, frame size, dimensions, mounting details, materials, horsepower, voltage, phase, speed (RPM), enclosure, starting characteristics, torque characteristics, code letter, full load and locked rotor current, service factor, and lubrication method.													
		1.4E	Manufacturer's Literature and Data including: Full item description and optional features and accessories. Include dimensions, weights, materials, applications, standard compliance, model numbers, size, and capacity.													

PROJECT:	**Renovation of Outpatient Pharmacy and HVAC**			SUBMITTAL REGISTER
LOCATION:	**Northern California VAHCS | Mather, CA**			
PROJECT NO:	**612A4-19-016 | 19-103**	CONTRACT NO:	**VA261-17-D-0102**	
CONTRACTOR:		TASK ORDER NO:	**36C26119N0727**	

		1.4F	Complete operating and maintenance manuals including wiring diagrams, technical data sheets, information for ordering replacement parts, and troubleshooting guide:													
		1.4F.1	Include complete list indicating all components of the systems.													
		1.4F.2	Include complete diagrams of the internal wiring for each item of equipment.													
		1.4F.3	Diagrams shall have their terminals identified to facilitate installation, operation and maintenance.													
		1.4G	Certification: Two weeks prior to final inspection, unless otherwise noted, certification shall be submitted to the COR stating that the motors have been properly applied, installed, adjusted, lubricated, and tested.													
		1.4H	Completed System Readiness Checklist provided by the Commissioning Agent and completed by the contractor, signed by a qualified technician and dated on the date of completion, in accordance with the requirements of Section 23 08 00, COMMISSIONING OF HVAC SYSTEMS.													
		1.4I	Submit training plans and instructor qualifications in accordance with the requirements of Section 23 08 00, COMMISSIONING OF HVAC SYSTEMS.													

PROJECT:	**Renovation of Outpatient Pharmacy and HVAC**			SUBMITTAL REGISTER
LOCATION:	**Northern California VAHCS | Mather, CA**			
PROJECT NO:	**612A4-19-016 | 19-103**	CONTRACT NO:	**VA261-17-D-0102**	
CONTRACTOR:		TASK ORDER NO:	**36C26119N0727**	

Activity #	Transmittal #	**Paragraph #**	Description	Required Review by	CONTRACTOR SCHEDULE DATES			CONTRACTOR ACTION DATES			APPROVING AUTHORITY DATES					Remarks
					Submit	Approval Needed By	Material Needed By	Action Code	Date of Action	Date FWD to APPR / Auth – Date RCD from CONTR	Date FWD to Other Revwr	Date RCD from Other Revwr	Action Code	Date of Action	Sent to CONTR/ Date RCD from APPR	
Spec Section 23 05 41 Noise and Vibration Control for HVAC Piping and Equipment																
		1.4A	Submit in accordance with specification Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, and SAMPLES.													
		1.4B	Manufacturer's Literature and Data:													
		1.4B.1	Vibration isolators:													
		1.4B.1a	Floor mountings													
		1.4B.1b	Hangers													
		1.4B.1c	Snubbers													
		1.4B.1d	Thrust restraints													
		1.4B.2	Bases.													
		1.4B.3	Seismic restraint provisions and bolting.													
		1.4B.4	Acoustical enclosures.													
		1.4C	Isolator manufacturer shall furnish with submittal load calculations for selection of isolators, including supplemental bases, based on lowest operating speed of equipment supported.													
		1.4D	Seismic Requirements: Submittals are required for all equipment anchors, supports and seismic restraints. Submittals shall include weights, dimensions, standard connections, and manufacturer's certification that all specified equipment will withstand seismic Lateral Force requirements as shown on drawings.													

PROJECT:	**Renovation of Outpatient Pharmacy and HVAC**			SUBMITTAL REGISTER
LOCATION:	**Northern California VAHCS | Mather, CA**			
PROJECT NO:	**612A4-19-016 | 19-103**	CONTRACT NO:	**VA261-17-D-0102**	
CONTRACTOR:		TASK ORDER NO:	**36C26119N0727**	

Activity #	Transmittal #	**Paragraph #**	Description	Required Review by	CONTRACTOR SCHEDULE DATES			CONTRACTOR ACTION DATES			APPROVING AUTHORITY DATES					Remarks
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Spec Section 23 05 93 Testing, Adjusting, and Balancing For HVAC																
		1.4A	Submit in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, and SAMPLES.													
		1.4B	Submit names and qualifications of TAB agency and TAB specialists within 60 days after the notice to proceed. Submit information on three recently completed projects and a list of proposed test equipment.													
		1.4C	For use by the COR staff, submit one complete set of applicable AABC, NEBB or TABB publications that will be the basis of TAB work.													
		1.4D	Submit Following for Review and Approval:													
		1.4D.1	Design Review Report within 90 days after the system layout on air and water side is completed by the Contractor.													
		1.4D.2	Systems inspection report on equipment and installation for conformance with design.													
		1.4D.3	Duct Air Leakage Test Report.													
		1.4D.4	Systems Readiness Report.													
		1.4D.5	Final TAB reports covering flow balance and adjustments, performance tests, vibration tests and sound tests.													
		1.4D.6	Include in final reports uncorrected installation deficiencies noted during TAB and applicable explanatory comments on test results that differ from design requirements.													

		1.4D.7	Include in each report the critical path for each balanced branch (air and hydronic. Every branch shall have at least one terminal device damper 100% open.													
		1.4E	Prior to request for Final or Partial Final inspection, submit completed Test and Balance report for the area with noted critical paths.													

PROJECT:	**Renovation of Outpatient Pharmacy and HVAC**		SUBMITTAL REGISTER
LOCATION:	**Northern California VAHCS | Mather, CA**		
PROJECT NO:	**612A4-19-016 | 19-103**	CONTRACT NO: **VA261-17-D-0102**	
CONTRACTOR:		TASK ORDER NO: **36C26119N0727**	

Activity #	Transmittal #	Paragraph #	Description	Required Review by	CONTRACTOR SCHEDULE DATES			CONTRACTOR ACTION DATES			APPROVING AUTHORITY DATES					Remarks
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Spec Section 23 07 11 HVAC and Boiler Plant Insulation																
		1.4A	Submit in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, and SAMPLES.													
		1.4B	Shop Drawings:													
		1.4B.1	All information, clearly presented, shall be included to determine compliance with drawings and specifications and ASTM, federal and military specifications.													
		1.4B.1a	Insulation materials: Specify each type used and state surface burning characteristics.													
		1.4B.1b	Insulation facings and jackets: Each type used. Make it clear that white finish will be furnished for exposed ductwork, casings and equipment.													
		1.4B.1c	Insulation accessory materials: Each type used.													
		1.4B.1d	Manufacturer's installation and fitting fabrication instructions for flexible unicellular insulation.													
		1.4B.1e	Refer to applicable specification paragraph numbers for coordination.													
		1.4C	Samples:													
		1.4C.1	Each type of insulation: Minimum size 10 cm (4 inches) square for board/block/ blanket; 15 cm (6 inches) long, full diameter for round types.													
		1.4C.2	Each type of facing and jacket: Minimum size 10 cm (4 inches square).													
		1.4C.3	Each accessory material: Minimum 120 ML (4 ounce) liquid container or 120 gram (4 ounce) dry weight for adhesives / cement / mastic.													

Spec Section 23 07 11 HVAC and Boiler Plant Insulation

PROJECT:	**Renovation of Outpatient Pharmacy and HVAC**			SUBMITTAL REGISTER
LOCATION:	**Northern California VAHCS | Mather, CA**			
PROJECT NO:	**612A4-19-016 | 19-103**	CONTRACT NO:	**VA261-17-D-0102**	
CONTRACTOR:		TASK ORDER NO:	**36C26119N0727**	

Activity #	Transmittal #	**Paragraph #**	Description	Required Review by	CONTRACTOR SCHEDULE DATES			CONTRACTOR ACTION DATES			APPROVING AUTHORITY DATES					Remarks
					Submit	Approval Needed By	Material Needed By	Action Code	Date of Action	Date FWD to APPR / Auth – Date RCD from CONTR	Date FWD to Other Revwr	Date RCD from Other Revwr	Action Code	Date of Action	Sent to CONTR/ Date RCD from APPR	
Spec Section 23 08 00 Commissioning of HVAC System																
		1.6A	The commissioning process requires review of selected Submittals that pertain to the systems to be commissioned. The Commissioning Agent will provide a list of submittals that will be reviewed by the Commissioning Agent. This list will be reviewed and approved by the VA prior to forwarding to the Contractor. Refer to Section 01 33 23 SHOP DRAWINGS, PRODUCT DATA, and SAMPLES for further details.													
		1.6B	The commissioning process requires Submittal review simultaneously with engineering review. Specific submittal requirements related to the commissioning process are specified in Section 01 91 00 GENERAL COMMISSIONING REQUIREMENTS.													

PROJECT:	**Renovation of Outpatient Pharmacy and HVAC**			SUBMITTAL REGISTER
LOCATION:	**Northern California VAHCS | Mather, CA**			
PROJECT NO:	**612A4-19-016 | 19-103**	CONTRACT NO:	**VA261-17-D-0102**	
CONTRACTOR:		TASK ORDER NO:	**36C26119N0727**	

Activity #	Transmittal #	**Paragraph #**	Description	Required Review by	CONTRACTOR SCHEDULE DATES			CONTRACTOR ACTION DATES			APPROVING AUTHORITY DATES					Remarks
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Spec Section 23 09 23 Direct-Digital Control System For HVAC																
		1.7A	Submit shop drawings in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.													
		1.7B	Manufacturer's literature and data for all components including the following:													
		1.7B.1	A wiring diagram for each type of input device and output device including DDC controllers, modems, repeaters, etc. Diagram shall show how the device is wired and powered, showing typical connections at the digital controllers and each power supply, as well as the device itself. Show for all field connected devices, including but not limited to, control relays, motor starters, electric or electronic actuators, and temperature pressure, flow and humidity sensors and transmitters.													
		1.7B.2	A diagram of each terminal strip, including digital controller terminal strips, terminal strip location, termination numbers and the associated point names.													
		1.7B.3	Control dampers and control valves schedule, including the size and pressure drop.													

		1.7B.4	Catalog cut sheets of all equipment used. This includes, but is not limited to software (by manufacturer and by third parties), DDC controllers, panels, peripherals, airflow measuring stations and associated components, and auxiliary control devices such as sensors, actuators, and control dampers. When manufacturer's cut sheets apply to a product series rather than a specific product, the data specifically applicable to the project shall be highlighted. Each submitted piece of literature and drawings should clearly reference the specification and/or drawings that it supposed to represent.														
		1.7B.5	Sequence of operations for each HVAC system and the associated control diagrams. Equipment and control labels shall correspond to those shown on the drawings.														
		1.7B.6	Color prints of proposed graphics with a list of points for display.														
		1.7B.7	Furnish a BACnet Protocol Implementation Conformance Statement (PICS) for each BACnet-compliant device.														
		1.7B.8	Schematic wiring diagrams for all control, communication and power wiring. Provide a schematic drawing of the central system installation. Label all cables and ports with computer manufacturers' model numbers and functions. Show all interface wiring to the control system.														
		1.7B.9	An instrumentation list for each controlled system. Each element of the controlled system shall be listed in table format. The table shall show element name, type of device, manufacturer, model number, and product data sheet number.														
		1.7B.10	Riser diagrams of wiring between central control unit and all control panels.														
		1.7B.11	Scaled plan drawings showing routing of LAN and locations of control panels, controllers, routers, gateways, ECC, and larger controlled devices.														

		1.7B.12	Construction details for all installed conduit, cabling, raceway, cabinets, and similar. Construction details of all penetrations and their protection.														
		1.7B.13	Quantities of submitted items may be reviewed but are the responsibility of the contractor administered by this Section of the technical specifications.														
		1.7C	Product Certificates: Compliance with Article, QUALITY ASSURANCE.														
		1.7D	Licenses: Provide licenses for all software residing on and used by the Controls Systems and transfer these licenses to the Owner prior to completion.														
		1.7E	As Built Control Drawings:														
		1.7E.1	Furnish three (3) copies of as-built drawings for each control system. The documents shall be submitted for approval prior to final completion.														
		1.7E.2	Furnish one (1) stick set of applicable control system prints for each mechanical system for wall mounting. The documents shall be submitted for approval prior to final completion.														
		1.7E.3	Furnish one (1) CD-ROM in CAD DWG and/or .DXF format for the drawings noted in subparagraphs above.														
		1.7F	Operation and Maintenance (O/M) Manuals):														
		1.7F.1	Submit in accordance with Article, INSTRUCTIONS, in Specification Section 01 00 00, GENERAL REQUIREMENTS.														
		1.7F.2	Include the following documentation:														
		1.7F.2a	General description and specifications for all components, including logging on/off, alarm handling, producing trend reports, overriding computer control, and changing set points and other variables.														
		1.7F.2b	Detailed illustrations of all the control systems specified for ease of maintenance and repair/replacement procedures, and complete calibration procedures.														

		1.7F.2c	One copy of the final version of all software provided including operating systems, programming language, operator workstation software, and graphics software.													
		1.7F.2d	Complete troubleshooting procedures and guidelines for all systems.													
		1.7F.2e	Complete operating instructions for all systems.													
		1.7F.2f	Recommended preventive maintenance procedures for all system components including a schedule of tasks for inspection, cleaning and calibration. Provide a list of recommended spare parts needed to minimize downtime.													
		1.7F.2g	Training Manuals: Submit the course outline and training material to the Owner for approval three (3) weeks prior to the training to VA facility personnel. These persons will be responsible for maintaining and the operation of the control systems, including programming. The Owner reserves the right to modify any or all of the course outline and training material.													
		1.7F.2h	Licenses, guaranty, and other pertaining documents for all equipment and systems.													
		1.7G	Submit Performance Report to Resident Engineer prior to final inspection.													

PROJECT:	**Renovation of Outpatient Pharmacy and HVAC**			SUBMITTAL REGISTER
LOCATION:	**Northern California VAHCS | Mather, CA**			
PROJECT NO:	**612A4-19-016 | 19-103**	CONTRACT NO:	**VA261-17-D-0102**	
CONTRACTOR:		TASK ORDER NO:	**36C26119N0727**	

Activity #	Transmittal #	**Paragraph #**	Description	Required Review by	CONTRACTOR SCHEDULE DATES			CONTRACTOR ACTION DATES			APPROVING AUTHORITY DATES					Remarks
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Spec Section 23 21 13 Hydronic Piping																
		1.4A	Submittals, including number of required copies, shall be submitted in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.													
		1.4B	Information and material submitted under this section shall be marked "SUBMITTED UNDER SECTION 23 21 13, HYDRONIC PIPING", with applicable paragraph identification.													
		1.4C	Manufacturer's Literature and Data including: Full item description and optional features and accessories. Include dimensions, weights, materials, applications, standard compliance, model numbers, size, and capacity.													
		1.4C.1	Pipe and equipment supports.													
		1.4C.2	Pipe and tubing, with specification, class or type, and schedule.													
		1.4C.3	Pipe fittings, including miscellaneous adapters and special fittings.													
		1.4C.4	Flanges, gaskets, and bolting.													
		1.4C.5	Couplings and fittings.													
		1.4C.6	Valves of all types.													
		1.4C.7	Strainers.													
		1.4C.8	Flexible connectors for water service.													
		1.4C.9	All specified hydronic system components.													
		1.4C.10	Gauges.													
		1.4C.11	Thermometers and test wells.													
		1.4C.12	Electric heat tracing systems.													
		1.4C.13	Seismic bracing details for piping.													

		1.4D	Submit the welder's qualifications in the form of a current (less than one-year old) and formal certificate.													
		1.4E	Coordination Drawings: Refer to paragraph, SUBMITTALS of Section 23 05 11, COMMON WORK RESULTS FOR HVAC.													
		1.4F	Complete operating and maintenance manuals including wiring diagrams, technical data sheets, information for ordering replacement parts, and troubleshooting guide:													
		1.4F.1	Include complete list indicating all components of the systems.													
		1.4F.2	Include complete diagrams of the internal wiring for each item of equipment.													
		1.4F.3	Diagrams shall have their terminals identified to facilitate installation, operation and maintenance.													
		1.4G	Completed System Readiness Checklist provided by the Commissioning Agent and completed by the contractor, signed by a qualified technician and dated on the date of completion, in accordance with the requirements of Section 23 08 00, COMMISSIONING OF HVAC SYSTEMS.													
		1.4H	Submit training plans and instructor qualifications in accordance with the requirements of Section 23 08 00, COMMISSIONING OF HVAC SYSTEMS.													

PROJECT:	**Renovation of Outpatient Pharmacy and HVAC**			SUBMITTAL REGISTER
LOCATION:	**Northern California VAHCS | Mather, CA**			
PROJECT NO:	**612A4-19-016 | 19-103**	CONTRACT NO:	**VA261-17-D-0102**	
CONTRACTOR:		TASK ORDER NO:	**36C26119N0727**	

Activity #	Transmittal #	**Paragraph #**	Description	Required Review by	CONTRACTOR SCHEDULE DATES			CONTRACTOR ACTION DATES			APPROVING AUTHORITY DATES					Remarks
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Spec Section 23 22 13 Steam and Condensate Heating Piping																
		1.4A	Submittals, including number of required copies, shall be submitted in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.													
		1.4B	Information and material submitted under this section shall be marked "SUBMITTED UNDER SECTION 23 22 13, STEAM AND CONDENSATE HEATING PIPING", with applicable paragraph identification.													
		1.4C	Manufacturer's Literature and Data including: Full item description and optional features and accessories. Include dimensions, weights, materials, applications, standard compliance, model numbers, size, and capacity.													
		1.4C.1	Pipe and tubing, with specification, class or type, and schedule.													
		1.4C.2	Pipe fittings, including miscellaneous adapters and special fittings.													
		1.4C.3	Steam Humidifier.													
		1.4C.4	Valves of all types.													
		1.4C.5	All specified steam system components.													
		1.4C.6	Steam Dispersion panels													
		1.1D	Coordination Drawings: Refer to paragraph, SUBMITTALS of Section 23 05 11, COMMON WORK RESULTS FOR HVAC.													
		1.4E	As-Built Piping Diagrams: Provide drawing as follows for steam and steam condensate piping and other central plant equipment.													

		1.4E.1	One wall-mounted stick file for prints. Mount stick file in the chiller plant or adjacent control room along with control diagram stick file.													
		1.4E.2	One set of reproducible drawings.													
		1.4F	Complete operating and maintenance manuals including wiring diagrams, technical data sheets, information for ordering replacement parts, and troubleshooting guide:													
		1.4F.1	Include complete list indicating all components of the systems.													
		1.4F.2	Include complete diagrams of the internal wiring for each item of equipment.													
		1.4F.3	Diagrams shall have their terminals identified to facilitate installation, operation and maintenance.													
		1.4G	Completed System Readiness Checklist provided by the Commissioning Agent and completed by the contractor, signed by a qualified technician and dated on the date of completion, in accordance with the requirements of Section 23 08 00, COMMISSIONING OF HVAC SYSTEMS.													
		1.4H	Submit training plans and instructor qualifications in accordance with the requirements of Section 23 08 00, COMMISSIONING OF HVAC SYSTEMS.													

PROJECT:	**Renovation of Outpatient Pharmacy and HVAC**			SUBMITTAL REGISTER
LOCATION:	**Northern California VAHCS | Mather, CA**			
PROJECT NO:	**612A4-19-016 | 19-103**	CONTRACT NO:	**VA261-17-D-0102**	
CONTRACTOR:		TASK ORDER NO:	**36C26119N0727**	

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Spec Section 23 31 00 HVAC Ducts and Casings																
		1.4A	Submit in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, and SAMPLES.													
		1.4B	Manufacturer's Literature and Data:													
		1.4B.1	Rectangular ducts:													
		1.4B.1a	Schedules of duct systems, materials and selected SMACNA construction alternatives for joints, sealing, gage and reinforcement.													
		1.4B.1b	Sealants and gaskets.													
		1.4B.1c	Access doors.													
		1.4B.2	Round and flat oval duct construction details:													
		1.4B.2a	Manufacturer's details for duct fittings.													
		1.4B.2b	Sealants and gaskets.													
		1.4B.2c	Access sections.													
		1.4B.2d	Installation instructions.													
		1.4B.3	Volume dampers.													
		1.4B.4	Upper hanger attachments.													
		1.4B.5	Fire dampers, fire doors, and smoke dampers with installation instructions.													
		1.4B.6	Flexible ducts and clamps, with manufacturer's installation instructions.													
		1.4B.7	Flexible connections.													
		1.4B.8	Instrument test fittings.													
		1.4B.9	Details and design analysis of alternate or optional duct systems.													
		1.4C	Coordination Drawings: Refer to article, SUBMITTALS, in Section 23 05 11 Common Work Results for HVAC and Steam Generation.													

PROJECT:	**Renovation of Outpatient Pharmacy and HVAC**			SUBMITTAL REGISTER
LOCATION:	**Northern California VAHCS | Mather, CA**			
PROJECT NO:	**612A4-19-016 | 19-103**	CONTRACT NO:	**VA261-17-D-0102**	
CONTRACTOR:		TASK ORDER NO:	**36C26119N0727**	

Activity #	Transmittal #	**Paragraph #**	Description	Required Review by	CONTRACTOR SCHEDULE DATES			CONTRACTOR ACTION DATES			APPROVING AUTHORITY DATES					Remarks
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Spec Section 23 34 00 HVAC Fans																
		1.4A	Submit in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, and SAMPLES.													
		1.4B	Manufacturers Literature and Data:													
		1.4B.1	Fan sections, motors and drives.													
		1.4B.2	Centrifugal fans, motors, drives, accessories and coatings.													
		1.4B.2a	In-line centrifugal fans.													
		1.4C	Certified Sound power levels for each fan.													
		1.4D	Motor ratings types, electrical characteristics and accessories.													
		1.4E	Belt guards.													
		1.4F	Maintenance and Operating manuals in accordance with Section 01 00 00, GENERAL REQUIREMENTS.													
		1.4G	Certified fan performance curves for each fan showing cubic feet per minute (CFM) versus static pressure, efficiency, and horsepower for design point of operation.													

PROJECT:	**Renovation of Outpatient Pharmacy and HVAC**			SUBMITTAL REGISTER
LOCATION:	**Northern California VAHCS | Mather, CA**			
PROJECT NO:	**612A4-19-016 | 19-103**	CONTRACT NO:	**VA261-17-D-0102**	
CONTRACTOR:		TASK ORDER NO:	**36C26119N0727**	

Activity #	Transmittal #	**Paragraph #**	Description	Required Review by	CONTRACTOR SCHEDULE DATES			CONTRACTOR ACTION DATES			APPROVING AUTHORITY DATES					Remarks
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Spec Section 23 36 00 Air Terminal Units																
		1.4A	Submit in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, and SAMPLES.													
		1.4B	Manufacturer's Literature and Data:													
		1.4B.1	Air Terminal Units: Submit test data.													
		1.4C	Certificates:													
		1.4C.1	Compliance with Article, QUALITY ASSURANCE.													
		1.4D.2	Compliance with specified standards.													
		1.4D	Operation and Maintenance Manuals: Submit in accordance with paragraph, INSTRUCTIONS, in Section 01 00 00, GENERAL REQUIREMENTS.													

PROJECT:	**Renovation of Outpatient Pharmacy and HVAC**			SUBMITTAL REGISTER
LOCATION:	**Northern California VAHCS | Mather, CA**			
PROJECT NO:	**612A4-19-016 | 19-103**	CONTRACT NO:	**VA261-17-D-0102**	
CONTRACTOR:		TASK ORDER NO:	**36C26119N0727**	

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Spec Section 23 37 00 Air Outlets and Inlets																
		1.4A	Submit in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, and SAMPLES													
		1.4B	Manufacturer's Literature and Data:													
		1.4B.1	Diffusers, registers, grilles and accessories.													
		1.4C	Coordination Drawings: Refer to article, SUBMITTALS, in Section 23 05 11, COMMON WORK RESULTS FOR HVAC and STEAM GENERATION.													

PROJECT:	**Renovation of Outpatient Pharmacy and HVAC**			SUBMITTAL REGISTER
LOCATION:	**Northern California VAHCS | Mather, CA**			
PROJECT NO:	**612A4-19-016 | 19-103**	CONTRACT NO:	**VA261-17-D-0102**	
CONTRACTOR:		TASK ORDER NO:	**36C26119N0727**	

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Spec Section 23 40 00 HVAC Air Cleaning Devices																
		1.4A	Submit in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.													
		1.4B	Manufacturer's Literature and Data:													
		1.4B.1	Extended surface filters.													
		1.4B.2	Holding frames. Identify locations.													
		1.4B.3	Side access housings. Identify locations, verify insulated doors.													
		1.4B.4	Magnehelic gages.													
		1.4C	Air Filter performance reports.													
		1.4D	Suppliers warranty.													
		1.4E	Field test results for HEPA filters as per paragraph 2.3.E.3.													

PROJECT:	**Renovation of Outpatient Pharmacy and HVAC**			SUBMITTAL REGISTER
LOCATION:	**Northern California VAHCS | Mather, CA**			
PROJECT NO:	**612A4-19-016 | 19-103**	CONTRACT NO:	**VA261-17-D-0102**	
CONTRACTOR:		TASK ORDER NO:	**36C26119N0727**	

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Spec Section 23 74 13 Packaged, Outdoor, Central-Station Air-Handling Units																
		1.4A	The contractor shall, in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, and SAMPLES, furnish a complete submission for all roof top units covered in the project. The submission shall include all information listed below. Partial and incomplete submissions shall be rejected without reviews.													
		1.4B	Manufacturer's Literature and Data:													
		1.4B.1	Submittals for RTUs shall include fans, drives, motors, coils, humidifiers, mixing box with outside/return air dampers, filter housings, and all other related accessories. The contractor shall provide custom drawings showing total air handling unit assembly including dimensions, operating weight, access sections, flexible connections, door swings, controls penetrations, electrical disconnect, lights, duplex receptacles, switches, wiring, utility connection points, unit support system, vibration isolators, drain pan, pressure drops through each component (filter, coil, etc.) and rigging points.													

PROJECT:	Renovation of Outpatient Pharmacy and HVAC			SUBMITTAL REGISTER
LOCATION:	Northern California VAHCS | Mather, CA			
PROJECT NO:	612A4-19-016 | 19-103	CONTRACT NO:	VA261-17-D-0102	
CONTRACTOR:		TASK ORDER NO:	36C26119N0727	

		1.4B.2	Submittal drawings of section or component only, will not be acceptable. Contractor shall also submit performance data including performance test results, charts, curves or certified computer selection data; data sheets; fabrication and insulation details; if the unit cannot be shipped in one piece, the contractor shall indicate the number of pieces that each unit will have to be broken into to meet shipping and job site rigging requirements. This data shall be submitted in hard copies and in electronic version compatible to AutoCAD version used by the VA at the time of submission.														
		1.4B.3	Submit sound power levels in each octave band for fan and at entrance and discharge of RTUs at scheduled conditions. Include sound attenuator capacities and itemized internal component attenuation. Internal lining of supply air ductwork with sound absorbing material is not permitted. In absence of sound power ratings refer to Section 23 05 41, NOISE AND VIBRATION CONTROL FOR HVAC PIPING AND EQUIPMENT.														
		1.4B.4	Provide fan curves showing Liters/Second (cubic feet per minute), static pressure, efficiency, and horsepower for design point of operation and at maximum design Liters/Second (cubic feet per minute) and 110 percent of design static pressure.														
		1.4B.5	Submit total fan static pressure, external static pressure, for RTU including total, inlet and discharge pressures, and itemized specified internal losses and unspecified internal losses. Refer to air handling unit schedule on drawings.														
		1.4C	Maintenance and operating manuals in accordance with Section 01 00 00, GENERAL REQUIREMENTS. Include instructions for lubrication, filter replacement, motor and drive replacement, spare part lists, and wiring diagrams.														
		1.4D	Submit written test procedures two weeks prior to factory testing. Submit written results of factory tests for approval prior to shipping.														

		1.4E	Completed System Readiness Checklists provided by the Commissioning Agent and completed by the contractor, signed by a qualified technician and dated on the date of completion, in accordance with the requirements of Section 23 08 00 COMMISSIONING OF HVAC SYSTEMS.													
		1.4F	Submit shipping information that clearly indicates how the units will be shipped in compliance with the descriptions below.													
		1.4F.1	Units shall be shipped in one (1) piece where possible and in shrink wrapping to protect the unit from dirt, moisture and/or road salt.													
		1.4F.2	If not shipped in one (1) piece, provide manufacturer approved shipping splits where required for installation or to meet shipping clearly that the shipping splits shown in the submittals have been verified to accommodate the construction constraints for rigging as required to complete installation and removal of any section for replacement through available access without adversely affecting other sections.													
		1.4F.3	If shipping splits are provided, each component shall be individually shrink wrapped to protect the unit and all necessary hardware (e.g. bolts, gaskets etc.) will be included to assemble unit on site (see section 2.1.A4).													
		1.4F.4	Lifting lugs will be provided to facilitate rigging on shipping splits and joining of segments. If the unit cannot be shipped in one piece, the contractor shall indicate the number of pieces that each unit will have to be broken into to meet shipping and job site rigging requirements.													

PROJECT:	**Renovation of Outpatient Pharmacy and HVAC**			SUBMITTAL REGISTER
LOCATION:	**Northern California VAHCS | Mather, CA**			
PROJECT NO:	**612A4-19-016 | 19-103**	CONTRACT NO:	**VA261-17-D-0102**	
CONTRACTOR:		TASK ORDER NO:	**36C26119N0727**	

Activity #	Transmittal #	**Paragraph #**	Description	Required Review by	CONTRACTOR SCHEDULE DATES			CONTRACTOR ACTION DATES			APPROVING AUTHORITY DATES					Remarks
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Spec Section 23 82 16 Air Coils																
		1.4A	Submit in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, and SAMPLES.													
		1.4B	Manufacturer's Literature and Data for Heating and Cooling Coils: Submit type, size, arrangements and performance details. Present application ratings in the form of tables, charts or curves.													
		1.4C	Provide installation, operating and maintenance instructions.													
		1.4D	Certification Compliance: Evidence of listing in current ARI Directory of Certified Applied Air Conditioning Products.													
		1.4E	Coils may be submitted with Section 23 36 00, AIR TERMINAL UNITS or Section 23 74 13, PACKAGED, OUTDOOR, CENTRAL-STATION AIR-HANDLING UNITS.													
		1.4F	Completed System Readiness Checklists provided by the Commissioning Agent and completed by the contractor, signed by a qualified technician and dated on the date of completion, in accordance with the requirements of Section 23 08 00 COMMISSIONING OF HVAC SYSTEMS.													

PROJECT:	**Renovation of Outpatient Pharmacy and HVAC**			SUBMITTAL REGISTER
LOCATION:	**Northern California VAHCS | Mather, CA**			
PROJECT NO:	**612A4-19-016 | 19-103**	CONTRACT NO:	**VA261-17-D-0102**	
CONTRACTOR:		TASK ORDER NO:	**36C26119N0727**	

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Spec Section 26 05 11 Requirements for Electrical Installations																
		1.12A	Submit to the COR in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.													
		1.12B	The Government's approval shall be obtained for all materials and equipment before delivery to the job site. Delivery, storage or installation of materials and equipment which has not had prior approval will not be permitted.													
		1.12C	All submittals shall include six copies of adequate descriptive literature, catalog cuts, shop drawings, test reports, certifications, samples, and other data necessary for the Government to ascertain that the proposed materials and equipment comply with drawing and specification requirements. Catalog cuts submitted for approval shall be legible and clearly identify specific materials and equipment being submitted.													
		1.12D	Submittals for individual systems and equipment assemblies which consist of more than one item or component shall be made for the system or assembly as a whole. Partial submittals will not be considered for approval.													
		1.12D.1	Mark the submittals, "SUBMITTED UNDER SECTION_____".													
		1.12D.2	Submittals shall be marked to show specification reference including the section and paragraph numbers.													

		1.12D.3	Submit each section separately.														
		1.12E	The submittals shall include the following:														
		1.12E.1	Information that confirms compliance with contract requirements. Include the manufacturer's name, model or catalog numbers, catalog information, technical data sheets, shop drawings, manuals, pictures, nameplate data, and test reports as required.														
		1.12E.2	Submittals are required for all equipment anchors and supports. Submittals shall include weights, dimensions, center of gravity, standard connections, manufacturer's recommendations and behavior problems (e.g., vibration, thermal expansion.) associated with equipment or piping so that the proposed installation can be properly reviewed. Include sufficient fabrication information so that appropriate mounting and securing provisions may be designed and attached to the equipment.														
		1.12E.3	Elementary and interconnection wiring diagrams for communication and signal systems, control systems, and equipment assemblies. All terminal points and wiring shall be identified on wiring diagrams.														
		1.12E.4	Parts list which shall include information for replacement parts and ordering instructions, as recommended by the equipment manufacturer.														
		1.12F	Maintenance and Operation Manuals:														
		1.12F.1	Submit as required for systems and equipment specified in the technical sections. Furnish in hardcover binders or an approved equivalent.														
		1.12F.2	Inscribe the following identification on the cover: the words "MAINTENANCE AND OPERATION MANUAL," the name and location of the system, material, equipment, building, name of Contractor, and contract name and number. Include in the manual the names, addresses, and telephone numbers of each subcontractor installing the system or equipment and the local representatives for the material or equipment.														

		1.12F.3	Provide a table of contents and assemble the manual to conform to the table of contents, with tab sheets placed before instructions covering the subject. The instructions shall be legible and easily read, with large sheets of drawings folded in.														
		1.12F.4	The manuals shall include:														
		1.12F.4 a	Internal and interconnecting wiring and control diagrams with data to explain detailed operation and control of the equipment.														
		1.12F.4 b	A control sequence describing start-up, operation, and shutdown.														
		1.12F.4 c	Description of the function of each principal item of equipment.														
		1.12F.4 d	Installation instructions.														
		1.12F.4 e	Safety precautions for operation and maintenance.														
		1.12F.4 f	Diagrams and illustrations.														
		1.12F.4 g	Periodic maintenance and testing procedures and frequencies, including replacement parts numbers.														
		1.12F.4 h	Performance data.														
		1.12F.4 i	Pictorial "exploded" parts list with part numbers. Emphasis shall be placed on the use of special tools and instruments. The list shall indicate sources of supply, recommended spare and replacement parts, and name of servicing organization.														
		1.12F.4 j	List of factory approved or qualified permanent servicing organizations for equipment repair and periodic testing and maintenance, including addresses and factory certification qualifications.														
		1.12G	Approvals will be based on complete submission of shop drawings, manuals, test reports, certifications, and samples as applicable.														

PROJECT:	**Renovation of Outpatient Pharmacy and HVAC**			SUBMITTAL REGISTER
LOCATION:	**Northern California VAHCS | Mather, CA**			
PROJECT NO:	**612A4-19-016 | 19-103**	CONTRACT NO:	**VA261-17-D-0102**	
CONTRACTOR:		TASK ORDER NO:	**36C26119N0727**	

Activity #	Transmittal #	**Paragraph #**	Description	Required Review by	CONTRACTOR SCHEDULE DATES			CONTRACTOR ACTION DATES			APPROVING AUTHORITY DATES					Remarks
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Spec Section 26 05 19 Low-Voltage Electrical Power Conductors and Cables																
		1.4A	Submit in accordance with Paragraph, SUBMITTALS in Section 26 05 11, REQUIREMENTS FOR ELECTRICAL INSTALLATIONS, and the following requirements:													
		1.4A.1	Shop Drawings:													
		1.4A.1a	Submit sufficient information to demonstrate compliance with drawings and specifications.													
		1.4A.1b	Submit the following data for approval:													
		1.4A.1b .1	Electrical ratings and insulation type for each conductor and cable.													
		1.4A.1b .2	Splicing materials and pulling lubricant.													
		1.4A.2	Certifications: Two weeks prior to final inspection, submit the following:													
		1.4A.2a	Certification by the manufacturer that the conductors and cables conform to the requirements of the drawings and specifications.													
		1.4A.2b	Certification by the Contractor that the conductors and cables have been properly installed, adjusted, and tested.													

PROJECT:	**Renovation of Outpatient Pharmacy and HVAC**			SUBMITTAL REGISTER
LOCATION:	**Northern California VAHCS | Mather, CA**			
PROJECT NO:	**612A4-19-016 | 19-103**	CONTRACT NO:	**VA261-17-D-0102**	
CONTRACTOR:		TASK ORDER NO:	**36C26119N0727**	

Activity #	Transmittal #	**Paragraph #**	Description	Required Review by	CONTRACTOR SCHEDULE DATES			CONTRACTOR ACTION DATES			APPROVING AUTHORITY DATES					Remarks
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Spec Section 26 05 26 Grounding and Bonding For Electrical Systems																
		1.4A	Submit in accordance with Paragraph, SUBMITTALS in Section 26 05 11, REQUIREMENTS FOR ELECTRICAL INSTALLATIONS, and the following requirements:													
		1.4A.1	Shop Drawings:													
		1.4A.1a	Submit sufficient information to demonstrate compliance with drawings and specifications.													
		1.4A.1b	Submit plans showing the location of system grounding electrodes and connections, and the routing of aboveground and underground grounding electrode conductors.													
		1.4A.2	Test Reports:													
		1.4A.2a	Two weeks prior to the final inspection, submit ground resistance field test reports to the COR.													
		1.4A.3	Certifications:													
		1.4A.3a	Certification by the Contractor that the grounding equipment has been properly installed and tested.													

PROJECT:	**Renovation of Outpatient Pharmacy and HVAC**			SUBMITTAL REGISTER
LOCATION:	**Northern California VAHCS | Mather, CA**			
PROJECT NO:	**612A4-19-016 | 19-103**	CONTRACT NO:	**VA261-17-D-0102**	
CONTRACTOR:		TASK ORDER NO:	**36C26119N0727**	

Activity #	Transmittal #	**Paragraph #**	Description	Required Review by	CONTRACTOR SCHEDULE DATES			CONTRACTOR ACTION DATES			APPROVING AUTHORITY DATES					Remarks
					Submit	Approval Needed By	Material Needed By	Action Code	Date of Action	Date FWD to APPR / Auth – Date RCD from CONTR	Date FWD to Other Revwr	Date RCD from Other Revwr	Action Code	Date of Action	Sent to CONTR/ Date RCD from APPR	
Spec Section 26 05 33 Raceway and Boxes for Electrical Systems																
		1.4A	Submit in accordance with Paragraph, SUBMITTALS in Section 26 05 11, REQUIREMENTS FOR ELECTRICAL INSTALLATIONS, and the following requirements:													
		1.4A.1	Shop Drawings:													
		1.4A.1a	Size and location of main feeders.													
		1.4A.1b	Size and location of panels and pull-boxes.													
		1.4A.1c	Layout of required conduit penetrations through structural elements.													
		1.4A.1d	Submit the following data for approval:													
		1.4A.1d .1	Raceway types and sizes.													
		1.4A.1d .2	Conduit bodies, connectors, and fittings.													
		1.4A.1d .3	Junction and pull boxes, types, and sizes.													
		1.4A.2	Certifications: Two weeks prior to final inspection, submit the following:													
		1.4A.2a	Certification by the manufacturer that raceways, conduits, conduit bodies, connectors, fittings, junction and pull boxes, and all related equipment conform to the requirements of the drawings and specifications.													
		1.4A.2b	Certification by the Contractor that raceways, conduits, conduit bodies, connectors, fittings, junction and pull boxes, and all related equipment have been properly installed.													

PROJECT:	**Renovation of Outpatient Pharmacy and HVAC**			SUBMITTAL REGISTER
LOCATION:	**Northern California VAHCS | Mather, CA**			
PROJECT NO:	**612A4-19-016 | 19-103**	CONTRACT NO:	**VA261-17-D-0102**	
CONTRACTOR:		TASK ORDER NO:	**36C26119N0727**	

Activity #	Transmittal #	**Paragraph #**	Description	Required Review by	CONTRACTOR SCHEDULE DATES			CONTRACTOR ACTION DATES			APPROVING AUTHORITY DATES					Remarks
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Spec Section 26 05 73 Overcurrent Protective Device Coordination Study																
		1.4A	Submit in accordance with Paragraph, SUBMITTALS in Section 26 05 11, REQUIREMENTS FOR ELECTRICAL INSTALLATIONS, and the following requirements:													
		1.4A.1	Product data on the software program to be used for the study. Software shall be in mainstream use in the industry, shall provide device settings and ratings, and shall show selective coordination by time-current drawings.													
		1.4A.2	Complete study as described in paragraph 1.6. Submittal of the study shall be well-coordinated with submittals of the shop drawings for equipment in related specification sections.													
		1.4A.3	Certifications: Two weeks prior to final inspection, submit the following.													
		1.4A.3a	Certification by the Contractor that the overcurrent protective devices have been set in accordance with the approved study.													

PROJECT:	**Renovation of Outpatient Pharmacy and HVAC**			SUBMITTAL REGISTER
LOCATION:	**Northern California VAHCS | Mather, CA**			
PROJECT NO:	**612A4-19-016 | 19-103**	CONTRACT NO:	**VA261-17-D-0102**	
CONTRACTOR:		TASK ORDER NO:	**36C26119N0727**	

Activity #	Transmittal #	**Paragraph #**	Description	Required Review by	CONTRACTOR SCHEDULE DATES			CONTRACTOR ACTION DATES			APPROVING AUTHORITY DATES					Remarks
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Spec Section 26 09 23 Lighting Controls																
		1.4A	Submit in accordance with Paragraph, SUBMITTALS in Section 26 05 11, REQUIREMENTS FOR ELECTRICAL INSTALLATIONS, and the following requirements:													
		1.4A.1	Shop Drawings:													
		1.4A.1a	Submit the following information for each type of lighting controls.													
		1.4A.1b	Material and construction details.													
		1.4A.1c	Physical dimensions and description.													
		1.4A.1d	Wiring schematic and connection diagram.													
		1.4A.1e	Installation details.													
		1.4A.2	Manuals:													
		1.4A.2a	Submit, simultaneously with the shop drawings, complete maintenance and operating manuals, including technical data sheets, wiring diagrams, and information for ordering replacement parts.													
		1.4A.2b	If changes have been made to the maintenance and operating manuals originally submitted, submit updated maintenance and operating manuals two weeks prior to the final inspection.													
		1.4A.3	Certifications: Two weeks prior to final inspection, submit the following.													
		1.4A.3a	Certification by the Contractor that the lighting control systems have been properly installed and tested.													

PROJECT:	**Renovation of Outpatient Pharmacy and HVAC**			SUBMITTAL REGISTER
LOCATION:	**Northern California VAHCS | Mather, CA**			
PROJECT NO:	**612A4-19-016 | 19-103**	CONTRACT NO:	**VA261-17-D-0102**	
CONTRACTOR:		TASK ORDER NO:	**36C26119N0727**	

Activity #	Transmittal #	**Paragraph #**	Description	Required Review by	CONTRACTOR SCHEDULE DATES			CONTRACTOR ACTION DATES			APPROVING AUTHORITY DATES					Remarks
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Spec Section 26 24 13 Distribution Switchboards																
		1.5A	Submit in accordance with Paragraph, SUBMITTALS in Section 26 05 11, REQUIREMENTS FOR ELECTRICAL INSTALLATIONS, and the following requirements:													
		1.5A.1	Shop Drawings:													
		1.5A.1a	Switchboard shop drawings shall be submitted simultaneously with or after the Overcurrent Protective Device Coordination Study.													
		1.5A.1b	Submit sufficient information to demonstrate compliance with drawings and specifications.													
		1.5A.1c	Prior to fabrication of switchboards, submit the following data for approval:													
		1.5A.1c .1	Complete electrical ratings.													
		1.5A.1c .2	Circuit breaker sizes.													
		1.5A.1c .3	Interrupting ratings.													
		1.5A.1c .4	Safety features.													
		1.5A.1c .5	Accessories and nameplate data.													
		1.5A.1c .6	Switchboard one line diagram, showing ampere rating, number of bars per phase and neutral in each bus run (horizontal and vertical), bus spacing, equipment ground bus, and bus material.													
		1.5A.1c .7	Elementary and interconnection wiring diagrams.													
Spec Section 26 24 13 Distribution Switchboards																

PROJECT:	Renovation of Outpatient Pharmacy and HVAC			SUBMITTAL REGISTER
LOCATION:	Northern California VAHCS | Mather, CA			
PROJECT NO:	612A4-19-016 | 19-103	CONTRACT NO:	VA261-17-D-0102	
CONTRACTOR:		TASK ORDER NO:	36C26119N0727	

		1.5A.1c.8	Technical data for each component.													
		1.5A.1c.9	Dimensioned exterior views of the switchboard.													
		1.5A.1c.10	Dimensioned section views of the switchboard.													
		1.5A.1c.11	Floor plan of the switchboard.													
		1.5A.1c.12	Foundation plan for the switchboard.													
		1.5A.1c.13	Provisions and required locations for external conduit and wiring entrances.													
		1.5A.1c.14	Approximate design weights.													
		1.5A.2	Manuals:													
		1.5A.2a	Submit, simultaneously with the shop drawings, companion copies of complete maintenance and operating manuals, including technical data sheets, wiring diagrams, and information for ordering replacement parts.													
		1.5A.2a.1	Schematic signal and control diagrams, with all terminals identified, matching terminal identification in the switchboard.													
		1.5A.2a.2	Include information for testing, repair, trouble shooting, assembly, disassembly, and factory recommended/required periodic maintenance procedures and frequency.													
		1.5A.2a.3	Provide a replacement and spare parts list. Include a list of tools and instruments for testing and maintenance purposes.													
		1.5A.2b	If changes have been made to the maintenance and operating manuals originally submitted, submit updated maintenance and operating manuals two weeks prior to the final inspection.													
		1.5A.3	Certifications: Two weeks prior to final inspection, submit the following.													
		1.5A.3a	Certification by the manufacturer that the switchboards conform to the requirements of the drawings and specifications.													

		1.5A.3b	Certification by the Contractor that the switchboards have been properly installed, adjusted, and tested.													

PROJECT:	**Renovation of Outpatient Pharmacy and HVAC**			SUBMITTAL REGISTER
LOCATION:	**Northern California VAHCS | Mather, CA**			
PROJECT NO:	**612A4-19-016 | 19-103**	CONTRACT NO:	**VA261-17-D-0102**	
CONTRACTOR:		TASK ORDER NO:	**36C26119N0727**	

Activity #	Transmittal #	**Paragraph #**	Description	Required Review by	CONTRACTOR SCHEDULE DATES			CONTRACTOR ACTION DATES			APPROVING AUTHORITY DATES					Remarks
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Spec Section 26 24 16 Panelboards																
		1.4A	Submit in accordance with Paragraph, SUBMITTALS in Section 26 05 11, REQUIREMENTS FOR ELECTRICAL INSTALLATIONS, and the following requirements:													
		1.4A.1	Shop Drawings:													
		1.4A.1a	Submit sufficient information to demonstrate compliance with drawings and specifications.													
		1.4A.1b	Include electrical ratings, dimensions, mounting details, materials, required clearances, terminations, weight, circuit breakers, wiring and connection diagrams, accessories, and nameplate data.													
		1.4A.2	Manuals:													
		1.4A.2a	Submit, simultaneously with the shop drawings, complete maintenance and operating manuals including technical data sheets, wiring diagrams, and information for ordering circuit breakers and replacement parts.													
		1.4A.2a .1	Include schematic diagrams, with all terminals identified, matching terminal identification in the panelboards.													
		1.4A.2a .2	Include information for testing, repair, troubleshooting, assembly, and disassembly.													
		1.4A.2b	If changes have been made to the maintenance and operating manuals originally submitted, submit updated maintenance and operating manuals two weeks prior to the final inspection.													

		1.4A.3	Certifications: Two weeks prior to final inspection, submit the following.													
		1.4A.3a	Certification by the manufacturer that the panelboards conform to the requirements of the drawings and specifications.													
		1.4A.3b	Certification by the Contractor that the panelboards have been properly installed, adjusted, and tested.													

PROJECT:	**Renovation of Outpatient Pharmacy and HVAC**			SUBMITTAL REGISTER
LOCATION:	**Northern California VAHCS | Mather, CA**			
PROJECT NO:	**612A4-19-016 | 19-103**	CONTRACT NO:	**VA261-17-D-0102**	
CONTRACTOR:		TASK ORDER NO:	**36C26119N0727**	

Activity #	Transmittal #	**Paragraph #**	Description	Required Review by	CONTRACTOR SCHEDULE DATES			CONTRACTOR ACTION DATES			APPROVING AUTHORITY DATES					Remarks
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Spec Section 26 27 26 Wiring Devices																
		1.4A	Submit in accordance with Paragraph, SUBMITTALS in Section 26 05 11, REQUIREMENTS FOR ELECTRICAL INSTALLATIONS, and the following requirements:													
		1.4A.1	Shop Drawings:													
		1.4A.1a	Submit sufficient information to demonstrate compliance with drawings and specifications.													
		1.4A.1b	Include electrical ratings, dimensions, mounting details, construction materials, grade, and termination information.													
		1.4A.2	Manuals:													
		1.4A.2a	Submit, simultaneously with the shop drawings, companion copies of complete maintenance and operating manuals, including technical data sheets and information for ordering replacement parts.													
		1.4A.2b	If changes have been made to the maintenance and operating manuals originally submitted, submit updated maintenance and operating manuals two weeks prior to the final inspection.													
		1.4A.3	Certifications: Two weeks prior to final inspection, submit the following.													
		1.4A.3a	Certification by the manufacturer that the wiring devices conform to the requirements of the drawings and specifications.													
		1.4A.3b	Certification by the Contractor that the wiring devices have been properly installed and adjusted.													

PROJECT:	**Renovation of Outpatient Pharmacy and HVAC**			SUBMITTAL REGISTER
LOCATION:	**Northern California VAHCS | Mather, CA**			
PROJECT NO:	**612A4-19-016 | 19-103**	CONTRACT NO:	**VA261-17-D-0102**	
CONTRACTOR:		TASK ORDER NO:	**36C26119N0727**	

Activity #	Transmittal #	**Paragraph #**	Description	Required Review by	CONTRACTOR SCHEDULE DATES			CONTRACTOR ACTION DATES			APPROVING AUTHORITY DATES					Remarks
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Spec Section 26 29 11 Motor Controllers																
		1.4A	Submit in accordance with Paragraph, SUBMITTALS in Section 26 05 11, REQUIREMENTS FOR ELECTRICAL INSTALLATIONS, and the following requirements:													
		1.4A.1	Shop Drawings:													
		1.4A.1a	Submit sufficient information to demonstrate compliance with drawings and specifications.													
		1.4A.1b	Include electrical ratings, dimensions, weights, mounting details, materials, overcurrent protection devices, overload relays, sizes of enclosures, wiring diagrams, starting characteristics, interlocking, and accessories.													
		1.4A.2	Manuals:													
		1.4A.2a	Submit, simultaneously with the shop drawings, companion copies of complete maintenance and operating manuals, including technical data sheets, wiring diagrams, and information for ordering replacement parts.													
		1.4A.2a .1	Wiring diagrams shall have their terminals identified to facilitate installation, maintenance, and operation.													
		1.4A.2a .2	Wiring diagrams shall indicate internal wiring for each item of equipment and interconnections between the items of equipment.													
		1.4A.2a .3	Elementary schematic diagrams shall be provided for clarity of operation.													

		1.4A.2a .4	Include the catalog numbers for the correct sizes of overload relays for the motor controllers.													
		1.4A.2b	If changes have been made to the maintenance and operating manuals originally submitted, submit updated maintenance and operating manuals two weeks prior to the final inspection.													
		1.4A.3	Certifications: Two weeks prior to final inspection, submit the following.													
		1.4A.3a	Certification by the manufacturer that the motor controllers conform to the requirements of the drawings and specifications.													
		1.4A.3b	Certification by the Contractor that the motor controllers have been properly installed, adjusted, and tested.													

PROJECT:	**Renovation of Outpatient Pharmacy and HVAC**			SUBMITTAL REGISTER
LOCATION:	**Northern California VAHCS | Mather, CA**			
PROJECT NO:	**612A4-19-016 | 19-103**	CONTRACT NO:	**VA261-17-D-0102**	
CONTRACTOR:		TASK ORDER NO:	**36C26119N0727**	

Activity #	Transmittal #	**Paragraph #**	Description	Required Review by	CONTRACTOR SCHEDULE DATES			CONTRACTOR ACTION DATES			APPROVING AUTHORITY DATES					Remarks
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Spec Section 26 29 21 Enclosed Switches and Circuit Breakers																
		1.4A	Submit in accordance with Paragraph, SUBMITTALS in Section 26 05 11, REQUIREMENTS FOR ELECTRICAL INSTALLATIONS, and the following requirements:													
		1.4A.1	Shop Drawings:													
		1.4A.1a	Submit sufficient information to demonstrate compliance with drawings and specifications.													
		1.4A.1b	Submit the following data for approval:													
		1.4A.1b .1	Electrical ratings, dimensions, mounting details, materials, required clearances, terminations, weight, fuses, circuit breakers, wiring and connection diagrams, accessories, and device nameplate data.													
		1.4A.1c	Certification from the manufacturer that representative enclosed switches and circuit breakers have been seismically tested to International Building Code requirements. Certification shall be based upon simulated seismic forces on a shake table or by analytical methods, but not by experience data or other methods.													
		1.4A.2	Manuals:													
		1.4A.2a	Submit complete maintenance and operating manuals including technical data sheets, wiring diagrams, and information for ordering fuses, circuit breakers, and replacement parts.													

		1.4A.2a .1	Include schematic diagrams, with all terminals identified, matching terminal identification in the enclosed switches and circuit breakers.													
		1.4A.2a .2	Include information for testing, repair, troubleshooting, assembly, and disassembly.													
		1.4A.2b	If changes have been made to the maintenance and operating manuals originally submitted, submit updated maintenance and operating manuals two weeks prior to the final inspection.													
		1.4A.3	Certifications: Two weeks prior to final inspection, submit the following.													
		1.4A.3a	Certification by the manufacturer that the enclosed switches and circuit breakers conform to the requirements of the drawings and specifications.													
		1.4A.3b	Certification by the Contractor that the enclosed switches and circuit breakers have been properly installed, adjusted, and tested.													

PROJECT:	**Renovation of Outpatient Pharmacy and HVAC**		SUBMITTAL REGISTER
LOCATION:	**Northern California VAHCS | Mather, CA**		
PROJECT NO:	**612A4-19-016 | 19-103**	CONTRACT NO: **VA261-17-D-0102**	
CONTRACTOR:		TASK ORDER NO: **36C26119N0727**	

Activity #	Transmittal #	**Paragraph #**	Description	Required Review by	CONTRACTOR SCHEDULE DATES			CONTRACTOR ACTION DATES			APPROVING AUTHORITY DATES					Remarks
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Spec Section 26 43 13 Surge Protective Devices																
		1.4A	Submit in accordance with Paragraph, SUBMITTALS in Section 26 05 11, REQUIREMENTS FOR ELECTRICAL INSTALLATIONS, and the following requirements:													
		1.4A.1	Shop Drawings:													
		1.4A.1a	Submit sufficient information to demonstrate compliance with drawings and specifications.													
		1.4A.1b	Include electrical ratings and device nameplate data.													
		1.4A.2	Manuals:													
		1.4A.2a	Submit, simultaneously with the shop drawings, companion copies of complete maintenance and operating manuals including technical data sheets, wiring diagrams, and information for ordering replacement parts.													
		1.4A.2b	If changes have been made to the maintenance and operating manuals originally submitted, submit updated maintenance and operating manuals two weeks prior to the final inspection.													
		1.4A.3	Certifications: Two weeks prior to final inspection, submit the following.													
		1.4A.3a	Certification by the manufacturer that the SPD conforms to the requirements of the drawings and specifications.													
		1.4A.3b	Certification by the Contractor that the SPD has been properly installed.													

PROJECT:	**Renovation of Outpatient Pharmacy and HVAC**		SUBMITTAL REGISTER
LOCATION:	**Northern California VAHCS | Mather, CA**		
PROJECT NO:	**612A4-19-016 | 19-103**	CONTRACT NO: **VA261-17-D-0102**	
CONTRACTOR:		TASK ORDER NO: **36C26119N0727**	

Activity #	Transmittal #	Paragraph #	Description	Required Review by	CONTRACTOR SCHEDULE DATES			CONTRACTOR ACTION DATES			APPROVING AUTHORITY DATES					Remarks
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Spec Section 26 51 00 Interior Lighting																
		1.4A	Submit in accordance with Paragraph, SUBMITTALS in Section 26 05 11, REQUIREMENTS FOR ELECTRICAL INSTALLATIONS, and the following requirements:													
		1.4A.1	Shop Drawings:													
		1.4A.1a	Submit the following information for each type of lighting fixture designated on the LIGHTING FIXTURE SCHEDULE, arranged in order of lighting fixture designation.													
		1.4A.1b	Material and construction details, include information on housing and optics system.													
		1.4A.1c	Physical dimensions and description.													
		1.4A.1d	Wiring schematic and connection diagram.													
		1.4A.1e	Installation details.													
		1.4A.1f	Energy efficiency data.													
		1.4A.1g	Photometric data based on laboratory tests complying with IES Lighting Measurements testing and calculation guides.													
		1.4A.1h	Lamp data including lumen output (initial and mean), color rendition index (CRI), rated life (hours), and color temperature (degrees Kelvin).													
		1.4A.1i	For LED lighting fixtures, submit US DOE LED Lighting Facts label, and IES L70 rated life.													
		1.4A.2	Manuals:													

		1.4A.2a	Submit, simultaneously with the shop drawings, complete maintenance and operating manuals, including technical data sheets, wiring diagrams, and information for ordering replacement parts.													
		1.4A.2b	If changes have been made to the maintenance and operating manuals originally submitted, submit updated maintenance and operating manuals two weeks prior to the final inspection.													
		1.4A.3	Certifications: Two weeks prior to final inspection, submit the following.													
		1.4A.3a	Certification by the Contractor that the interior lighting systems have been properly installed and tested.													

PROJECT:	**Renovation of Outpatient Pharmacy and HVAC**			SUBMITTAL REGISTER
LOCATION:	**Northern California VAHCS | Mather, CA**			
PROJECT NO:	**612A4-19-016 | 19-103**	CONTRACT NO:	**VA261-17-D-0102**	
CONTRACTOR:		TASK ORDER NO:	**36C26119N0727**	

Activity #	Transmittal #	**Paragraph #**	Description	Required Review by	CONTRACTOR SCHEDULE DATES			CONTRACTOR ACTION DATES			APPROVING AUTHORITY DATES					Remarks
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Spec Section 27 05 11 Requirements for Communications Installations																
		1.7A	Submit in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.													
		1.7B	Provide parts list including quantity of spare parts.													
		1.7C	Provide manufacturer product information. Government reserves the right to require a list of installations where products have been in operation.													
		1.7D	Provide Source Quality Control Submittal:													
		1.7D.1	Submit written certification from OEM indicating that proposed supervisor of installation and proposed provider of warranty maintenance are authorized representatives of OEM. Include individual's legal name, contact information and OEM credentials in certification.													
		1.7D.2	Submit written certification from OEM that wiring and connection diagrams meet Government Life Safety Guidelines, NFPA, NEC, NRTL, these specifications, and Joint Commission requirements and instructions, requirements, recommendations, and guidance set forth by OEM for the proper performance of system.													
		1.7D.3	Pre-acceptance Certification: Certification in accordance with procedure outlined in Section 01 00 00, GENERAL REQUIREMENTS and specific Division 27 qualification documentation.													

PROJECT:	Renovation of Outpatient Pharmacy and HVAC			SUBMITTAL REGISTER
LOCATION:	Northern California VAHCS | Mather, CA			
PROJECT NO:	612A4-19-016 | 19-103	CONTRACT NO:	VA261-17-D-0102	
CONTRACTOR:		TASK ORDER NO:	36C26119N0727	

		1.7E	Installer Qualifications: Submit three installations of similar size and complexity furnished and installed by installer; include:													
		1.7E.1	Installation location and name.													
		1.7E.2	Owner's name and contact information including, address, telephone and email.													
		1.7E.3	Date of project start and date of final acceptance.													
		1.7E.4	System project number.													
		1.7E.5	Three paragraph description of each system related to this project; include function, operation, and installation.													
		1.7F	Provide delegated design submittals (e.g. seismic support design).													
		1.7G	Submittals are required for all equipment anchors and supports. Include weights, dimensions, center of gravity, standard connections, manufacturer's recommendations and behavior problems (e.g., vibration, thermal expansion,) associated with equipment or conduit. Anchors and supports to resist seismic load based on seismic design categories per section 4.0 of VA seismic design requirements H-18-8 dated August 2013.													
		1.7H	Test Equipment List:													
		1.7H.1	Supply test equipment of accuracy better than parameters to be tested.													
		1.7H.2	Submit test equipment list including make and model number:													
		1.7H.2a	ANSI/TIA-1152 Level IIIe for Cat 6 and cat 6A and class EA twisted pair cabling test instrument.													
		1.7H.2b	Fiber optic insertion loss power meter with light source.													
		1.7H.2c	Optical time domain reflectometer (OTDR).													
		1.7H.2d	Volt-Ohm meter.													
		1.7H.2e	Digital camera.													
		1.7H.3	Supply only test equipment with a calibration tag from Government-accepted calibration service dated not more than 12 months prior to test.													
		1.7H.4	Provide sample test and evaluation reports.													
		1.7I	Submittal Drawings:													

Spec Section 27 05 11 Requirements for Communications Installations

		1.7I.1	Telecommunications Space Plans/Elevations: Provide enlarged floor plans of telecommunication spaces indicating layout of equipment and devices, including receptacles and grounding provisions. Submit detailed plan views and elevations of telecommunication spaces showing racks, termination blocks, and cable paths. Include following rooms:													
		1.7I.1a	Telecommunications rooms.													
		1.7I.1b	Building Entrance Facility/Demarcation rooms.													
		1.7I.1c	Server rooms/Data Center.													
		1.7I.1d	Equipment rooms.													
		1.7I.1e	Antenna Head End rooms.													
		1.7I.2	Logical Drawings: Provide logical riser or schematic drawings for all systems.													
		1.7I.2a	Provide riser diagrams systems and interconnection drawings for equipment assemblies; show termination points and identify wiring connections.													
		1.7I.3	Access Panel Schedule on Submittal Drawings: Coordinate and prepare a location, size, and function schedule of access panels required to fully service equipment.													
		1.7J	Provide sustainable design submittals.													
		1.7K	Furnish electronic certified test reports to COR prior to final inspection and not more than 90 days after completion of tests.													

PROJECT:	**Renovation of Outpatient Pharmacy and HVAC**			SUBMITTAL REGISTER
LOCATION:	**Northern California VAHCS | Mather, CA**			
PROJECT NO:	**612A4-19-016 | 19-103**	CONTRACT NO:	**VA261-17-D-0102**	
CONTRACTOR:		TASK ORDER NO:	**36C26119N0727**	

Activity #	Transmittal #	**Paragraph #**	Description	Required Review by	CONTRACTOR SCHEDULE DATES			CONTRACTOR ACTION DATES			APPROVING AUTHORITY DATES					Remarks
					Submit	Approval Needed By	Material Needed By	Action Code	Date of Action	Date FWD to APPR / Auth – Date RCD from CONTR	Date FWD to Other Revwr	Date RCD from Other Revwr	Action Code	Date of Action	Sent to CONTR/ Date RCD from APPR	
Spec Section 27 05 26 Grounding and Bonding For Communications Systems																
		1.3A	Submit in accordance with Section 27 05 11, REQUIREMENTS FOR COMMUNICATIONS INSTALLATIONS.													
		1.3B	Provide plan indicating location of system grounding electrode connections and routing of aboveground and underground grounding electrode conductors.													
		1.3C	Closeout Submittals: In addition to Section 27 05 11, REQUIREMENTS FOR COMMUNICATIONS INSTALLATIONS provide the following:													
		1.3C.1	Certified test reports of ground resistance.													
		1.3C.2	Certifications: Two weeks prior to final inspection, submit following to COR:													
		1.3C.2a	Certification materials and installation is in accordance with construction documents.													
		1.3C.2b	Certification complete installation has been installed and tested.													

PROJECT:	**Renovation of Outpatient Pharmacy and HVAC**		SUBMITTAL REGISTER
LOCATION:	**Northern California VAHCS | Mather, CA**		
PROJECT NO:	**612A4-19-016 | 19-103**	CONTRACT NO: **VA261-17-D-0102**	
CONTRACTOR:		TASK ORDER NO: **36C26119N0727**	

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Spec Section 27 05 33 Raceways and Boxes for Communications Systems																
		1.3A	In accordance with Section 27 05 11, REQUIREMENTS FOR COMMUNICATIONS INSTALLATIONS, submit the following:													
		1.3A.1	Size and location of cabinets, splice boxes and pull boxes.													
		1.3A.2	Layout of required conduit penetrations through structural elements.													
		1.3A.3	Catalog cuts marked with specific item proposed and area of application identified.													
		1.3B	Certification: Provide letter prior to final inspection, certifying material is in accordance with construction documents and properly installed.													

PROJECT:	**Renovation of Outpatient Pharmacy and HVAC**			SUBMITTAL REGISTER
LOCATION:	**Northern California VAHCS | Mather, CA**			
PROJECT NO:	**612A4-19-016 | 19-103**	CONTRACT NO:	**VA261-17-D-0102**	
CONTRACTOR:		TASK ORDER NO:	**36C26119N0727**	

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Spec Section 27 10 00 Control, Communication and Signal Wiring																
		1.3A	Submit in accordance with Section 27 05 11, REQUIREMENTS FOR COMMUNICATIONS INSTALLATIONS.													
		1.3B	Submit written certification from OEM:													
		1.3B.1	Indicate wiring and connection diagrams meet National and Government Life Safety Guidelines, NFPA, NEC, NRTL, Joint Commission, OEM, this section and Section 27 05 11, REQUIREMENTS FOR COMMUNICATIONS INSTALLATIONS.													
		1.3B.2	Include instructions, requirements, recommendations, and guidance for proper performance of system as described herein.													
		1.3B.3	Government shall not approve any submittal without this certification.													
		1.3C	Identify environmental specifications on technical submittals; identify requirements for installation.													
		1.3C.1	Minimum floor space and ceiling heights.													
		1.3C.2	Minimum size of doors for cable reel passage.													
		1.3D	Power: Provide specific voltage, amperage, phases, and quantities of circuits.													
		1.3E	Provide conduit size requirements.													
		1.3F	Closeout Submittals:													
		1.3F.1	Provide contact information for maintenance personnel to contact contractor for emergency maintenance and logistic assistance, and assistance in resolving technical problems at any time during warranty period.													

		1.3F.2	Provide certified OEM sweep test tags from each cable reel to COR.													
		1.3F.3	Furnish spare or unused wire and cable with appropriate connectors (female types) for installation in appropriate punch blocks, barrier strips, patch, or bulkhead connector panels.													
		1.3F.4	Turn over unused and opened installation kit boxes, coaxial, fiber optic, and twisted pair cable reels, conduit, cable tray, cable duct bundles, wire rolls, physical installation hardware to COR.													
		1.3F.5	Documentation: Include any item or quantity of items, as installed drawings, equipment, maintenance, and operation manuals, and OEM materials needed to completely and correctly provide system documentation required herein.													

PROJECT:	**Renovation of Outpatient Pharmacy and HVAC**			SUBMITTAL REGISTER
LOCATION:	**Northern California VAHCS | Mather, CA**			
PROJECT NO:	**612A4-19-016 | 19-103**	CONTRACT NO:	**VA261-17-D-0102**	
CONTRACTOR:		TASK ORDER NO:	**36C26119N0727**	

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Spec Section 27 11 00 Telecommunication Room Fittings																
		1.3A	Submit in accordance with Section 27 05 11, REQUIREMENTS FOR COMMUNICATIONS INSTALLATION.													
		1.3B	Separate submittal into sections for each subsystem containing the following:													
		1.3B.1	Pictorial layouts of each Telecommunications Room and Cross Connection Space (VCCS, and HCCS termination cabinets), each distribution cabinet layout, and TCO as each is expected to be installed and configured.													
		1.3B.2	Equipment technical literature detailing electrical and technical characteristics of each item of equipment to be furnished.													
		1.3C	Environmental Requirements: Identify environmental specifications for housing system as initial and expanded system configurations.													
		1.3C.1	Floor loading for batteries and cabinets.													
		1.3C.2	Minimum floor space and ceiling height.													
		1.3C.3	Minimum door size for equipment passage.													

PROJECT:	**Renovation of Outpatient Pharmacy and HVAC**			SUBMITTAL REGISTER
LOCATION:	**Northern California VAHCS | Mather, CA**			
PROJECT NO:	**612A4-19-016 | 19-103**	CONTRACT NO:	**VA261-17-D-0102**	
CONTRACTOR:		TASK ORDER NO:	**36C26119N0727**	

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Spec Section 27 15 00 Communications Structured Cabling																
		1.3A	In addition to requirements of Section 27 05 11, REQUIREMENTS FOR COMMUNICATIONS INSTALLATIONS provide:													
		1.3A.1	Pictorial layout drawing of each telecommunications room showing termination cabinets, each distribution cabinet and rack, as each is expected to be installed and configured.													
		1.3A.2	List of test equipment as per Section 27 05 11, REQUIREMENTS FOR COMMUNICATIONS INSTALLATIONS.													
		1.3B	Certifications:													
		1.3B.1	Submit written certification from OEM indicating that proposed supervisor of installation and proposed provider of contract maintenance are authorized representatives of OEM. Include individual's legal name and address and OEM warranty credentials in the certification.													
		1.3B.2	Pre-acceptance Certification: Submit in accordance with test procedures.													
		1.3B.3	Test system cables and certify to COR before proof of performance testing can be conducted. Identify each cable as labeled on as-installed drawings.													
		1.3B.4	Provide current and qualified test equipment OEM training certificates and product OEM installation certification for contractor installation, maintenance, and supervisory personnel.													

PROJECT:	**Renovation of Outpatient Pharmacy and HVAC**			SUBMITTAL REGISTER
LOCATION:	**Northern California VAHCS | Mather, CA**			
PROJECT NO:	**612A4-19-016 | 19-103**	CONTRACT NO:	**VA261-17-D-0102**	
CONTRACTOR:		TASK ORDER NO:	**36C26119N0727**	

		1.3C	Closeout Submittal: Provide document from OEM certifying that each item of equipment installed conforms to OEM published specifications.													

PROJECT:	**Renovation of Outpatient Pharmacy and HVAC**			SUBMITTAL REGISTER
LOCATION:	**Northern California VAHCS | Mather, CA**			
PROJECT NO:	**612A4-19-016 | 19-103**	CONTRACT NO:	**VA261-17-D-0102**	
CONTRACTOR:		TASK ORDER NO:	**36C26119N0727**	

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Spec Section 28 05 00 Common Work Results for Electronic Safety and Security																
		1.6A	Submit in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.													
		1.6B	The Government's approval shall be obtained for all equipment and material before delivery to the job site. Delivery, storage or installation of equipment or material which has not had prior approval will not be permitted at the job site.													
		1.6C	Submittals for individual systems and equipment assemblies which consist of more than one item or component shall be made for the system or assembly as a whole. Partial submittals will not be considered for approval.													
		1.6C.1	Mark the submittals, "SUBMITTED UNDER SECTION_____".													
		1.6C.2	Submittals shall be marked to show specification reference including the section and paragraph numbers.													
		1.6C.3	Submit each section separately.													
		1.6D	The submittals shall include the following:													
		1.6D.1	Information that confirms compliance with contract requirements. Include the manufacturer's name, model or catalog numbers, catalog information, technical data sheets, shop drawings, pictures, nameplate data and test reports as required.													

		1.6D.2	Submittals are required for all equipment anchors and supports. Submittals shall include weights, dimensions, center of gravity, standard connections, manufacturer's recommendations and behavior problems (e.g., vibration, thermal expansion,) associated with equipment or piping so that the proposed installation can be properly reviewed.														
		1.6D.3	Parts list which shall include those replacement parts recommended by the equipment manufacturer, quantity of parts, current price and availability of each part.														
		1.6E	Submittals shall be in full compliance of the Contract Documents. All submittals shall be provided in accordance with this section. Submittals lacking the breath or depth these requirements will be considered incomplete and rejected. Submissions are considered multidisciplinary and shall require coordination with applicable divisions to provide a complete and comprehensive submission package. All submittals shall include adequate descriptive literature, catalog cuts, shop drawings and other data necessary for the Government to ascertain that the proposed equipment and materials comply with specification requirements. Catalog cuts submitted for approval shall be legible and clearly identify equipment being submitted. Additional general provisions are as follows:														
		1.6E.1	The Contractor shall schedule submittals in order to maintain the project schedule. For coordination drawings refer to Specification Section 01 33 10 - Design Submittal Procedures, which outline basic submittal requirements and coordination. Section 01 33 10 shall be used in conjunction with this section.														
		1.6E.2	The Contractor shall identify variations from requirements of Contract Documents and state product and system limitations, which may be detrimental to successful performance of the completed work or system.														

		1.6E.3	Each package shall be submitted at one (1) time for each review and include components from applicable disciplines (e.g., electrical work, architectural finishes, door hardware, etc.) which are required to produce an accurate and detailed depiction of the project.														
		1.6E.4	Manufacturer's information used for submittal shall have pages with items for approval tagged, items on pages shall be identified, and capacities and performance parameters for review shall be clearly marked through use of an arrow or highlighting. Provide space for COR and Contractor review stamps.														
		1.6E.5	Technical Data Drawings shall be in the latest version of AutoCAD®, drawn accurately, and in accordance with VA CAD Standards CAD Standard Application Guide, and VA BIM Guide. FREEHAND SKETCHES OR COPIED VERSIONS OF THE CONSTRUCTION DOCUMENTS WILL NOT BE ACCEPTED. The Contractor shall not reproduce Contract Documents or copy standard information as the basis of the Technical Data Drawings. If departures from the technical data drawings are subsequently deemed necessary by the Contractor, details of such departures and the reasons thereof shall be submitted in writing to the COR for approval before the initiation of work.														
		1.6E.6	Packaging: The Contractor shall organize the submissions according to the following packaging requirements.														
		1.6E.6 a	Binders: For each manual, provide heavy duty, commercial quality, durable three (3) ring vinyl covered loose leaf binders, sized to receive 8.5 x 11 in paper, and appropriate capacity to accommodate the contents. Provide a clear plastic sleeve on the spine to hold labels describing the contents. Provide pockets in the covers to receive folded sheets.														

		1.6E.6 a.1	Where two (2) or more binders are necessary to accommodate data; correlate data in each binder into related groupings according to the Project Manual table of contents. Cross-referencing other binders where necessary to provide essential information for communication of proper operation and/or maintenance of the component or system.														
		1.6E.6 a.2	Identify each binder on the front and spine with printed binder title, Project title or name, and subject matter covered. Indicate the volume number if applicable.														
		1.6E.6 b	Dividers: Provide heavy paper dividers with celluloid tabs for each Section. Mark each tab to indicate contents.														
		1.6E.6 c	Protective Plastic Jackets: Provide protective transparent plastic jackets designed to enclose diagnostic software for computerized electronic equipment.														
		1.6E.6 d	Text Material: Where written material is required as part of the manual use the manufacturer's standard printed material, or if not available, specially prepared data, neatly typewritten on 8.5 inches by 11 inches, 20-pound, white bond paper.														
		1.6E.6 e	Drawings: Where drawings and/or diagrams are required as part of the manual, provide reinforced punched binder tabs on the drawings and bind them with the text.														
		1.6E.6 e.1	Where oversized drawings are necessary, fold the drawings to the same size as the text pages and use as a foldout.														
		1.6E.6 e.2	If drawings are too large to be used practically as a foldout, place the drawing, neatly folded, in the front or rear pocket of the binder. Insert a type written page indicating the drawing title, description of contents and drawing location at the appropriate location of the manual.														
		1.6E.6 e.3	Drawings shall be sized to ensure details and text is of legible size. Text shall be no less than 1/16” tall.														

PROJECT:	Renovation of Outpatient Pharmacy and HVAC			SUBMITTAL REGISTER
LOCATION:	Northern California VAHCS | Mather, CA			
PROJECT NO:	612A4-19-016 | 19-103	CONTRACT NO:	VA261-17-D-0102	
CONTRACTOR:		TASK ORDER NO:	36C26119N0727	

		1.6E.6 f	Manual Content: Submit in accordance with Section 01 00 00, GENERAL REQUIREMENTS.														
		1.6E.6 f.1	Maintenance and Operation Manuals: Submit as required for systems and equipment specified in the technical sections. Furnish four copies, bound in hardback binders, (manufacturer's standard binders) or an approved equivalent. Furnish one complete manual as specified in the technical section but in no case later than prior to performance of systems or equipment test and furnish the remaining manuals prior to contract completion.														
		1.6E.6 f.2	Inscribe the following identification on the cover: the words "MAINTENANCE AND OPERATION MANUAL," the name and location of the system, equipment, building, name of Contractor, and contract number. Include in the manual the names, addresses, and telephone numbers of each subcontractor installing the system or equipment and the local representatives for the system or equipment.														
		1.6E.6 f.3	The manuals shall include:														
		1.6E.6 f.3a	Internal and interconnecting wiring and control diagrams with data to explain detailed operation and control of the equipment.														
		1.6E.6 f.3b	A control sequence describing start-up, operation, and shutdown.														
		1.6E.6 f.3c	Description of the function of each principal item of equipment.														
		1.6E.6 f.3d	Installation and maintenance instructions.														
		1.6E.6 f.3e	Safety precautions.														
		1.6E.6 f.3f	Diagrams and illustrations.														
		1.6E.6 f.3g	Testing methods.														
		1.6E.6 f.3h	Performance data.														

		1.6E.6 f.3i	Pictorial "exploded" parts list with part numbers. Emphasis shall be placed on the use of special tools and instruments. The list shall indicate sources of supply, recommended spare parts, and name of servicing organization.													
		1.6E.6 f.3j	Appendix; list qualified permanent servicing organizations for support of the equipment, including addresses and certified qualifications.													
		1.6E.6 g	Binder Organization: Organize each manual into separate sections for each piece of related equipment. At a minimum, each manual shall contain a title page, table of contents, copies of Product Data supplemented by drawings and written text, and copies of each warranty, bond, certifications, and service Contract issued. Refer to Group I through V Technical Data Package Submittal requirements for required section content.													
		1.6E.6 h	Title Page: Provide a title page as the first sheet of each manual to include the following information; project name and address, subject matter covered by the manual, name and address of the Project, date of the submittal, name, address, and telephone number of the Contractor, and cross references to related systems in other operating and/or maintenance manuals.													
		1.6E.6 i	Table of Contents: After the title page, include a type written table of contents for each volume, arranged systematically according to the Project Manual format. Provide a list of each product included, identified by product name or other appropriate identifying symbols and indexed to the content of the volume. Where more than one (1) volume is required to hold data for a particular system, provide a comprehensive table of contents for all volumes in each volume of the set.													

PROJECT:	Renovation of Outpatient Pharmacy and HVAC			SUBMITTAL REGISTER
LOCATION:	Northern California VAHCS | Mather, CA			
PROJECT NO:	612A4-19-016 | 19-103	CONTRACT NO:	VA261-17-D-0102	
CONTRACTOR:		TASK ORDER NO:	36C26119N0727	

		1.6E.6 j	General Information Section: Provide a general information section immediately following the table of contents, listing each product included in the manual, identified by product name. Under each product, list the name, address, and telephone number of the installer and maintenance Contractor. In addition, list a local source for replacement parts and equipment.														
		1.6E.6 k	Drawings: Provide specially prepared drawings where necessary to supplement the manufacturers printed data to illustrate the relationship between components of equipment or systems or provide control or flow diagrams. Coordinate these drawings with information contained in Project Record Drawings to assure correct illustration of the completed installation.														
		1.6E.6 l	Manufacturer's Data: Where manufacturer's standard printed data is included in the manuals, include only those sheets that are pertinent to the part or product installed. Mark each sheet to identify each part or product included in the installation. Where more than one (1) item in tabular format is included, identify each item, using appropriate references from the Contract Documents. Identify data that is applicable to the installation and delete references to information which is not applicable.														
		1.6E.6 m	Where manufacturer's standard printed data is not available, and the information is necessary for proper operation and maintenance of equipment or systems, or it is necessary to provide additional information to supplement the data included in the manual, prepare written text to provide the necessary information. Organize the text in a consistent format under a separate heading for different procedures. Where necessary, provide a logical sequence of instruction for each operating or maintenance procedure. Where similar or more than one product is listed on the submittal the Contractor shall differentiate by highlighting the specific product to be utilized.														
		1.6E.6 n	Calculations: Provide a section for circuit and panel calculations.														

		1.6E.6 o	Loading Sheets: Provide a section for DGP Loading Sheets.														
		1.6E.6 p	Certifications: Provide section for Contractor's manufacturer certifications.														
		1.6E.7	Camera Schedule - A camera schedule shall be developed for each camera. Contractors shall coordinate with the COR to determine camera starting numbers and naming conventions. All drawings shall identify wire and cable standardization methodology. Color coding of all wiring conductors and jackets is required and shall be communicated consistently throughout the drawings package submittal. At a minimum, the camera schedule shall include the following information:														
		1.6E.7 a	Item Number														
		1.6E.7 b	Camera Number														
		1.6E.7 c	Naming Conventions														
		1.6E.7 d	Description of Camera Coverage														
		1.6E.7 e	Camera Location														
		1.6E.7 f	Floor Plan Sheet Number														
		1.6E.7 g	Camera Type														
		1.6E.7 h	Mounting Type														
		1.6E.7 i	Standard Detail Reference														
		1.6E.7 j	Power Input & Draw														
		1.6E.7 k	Power Panel Location														
		1.6E.7 l	Remarks Column for Camera														
		1.6E.8	Section II – Data Gathering Panel Documentation Package														

		1.6E.8 a	Contractor shall provide Data Gathering Panel (DGP) input and output documentation packages for review at the Shop Drawing submittal stage and also with the as-built documentation package. The documentation packages shall be provided in both printed and magnetic form at both review stages.														
		1.6E.8 b	The DGP spreadsheet shall include an entry section for the following information:														
		1.6E.8 b.1	DGP number														
		1.6E.8 b.2	First Reader Number														
		1.6E.8 b.3	First Monitor Point Number														
		1.6E.8 b.4	First Relay Number														
		1.6E.8 b.5	DGP, input or output Location														
		1.6E.8 b.6	DGP Chain Number														
		1.6E.8 b.7	DGP Cabinet Tamper Input Number														
		1.6E.8 b.8	DGP Power Fail Input Number														
		1.6E.8 b.9	Number of Monitor Points Reserved for Expansion Boards														
		1.6E.8 b.10	Number of Control Points (Relays) Reserved for Expansion Boards														
		1.6E.8 c	The DGP, input module and output module spreadsheets shall automatically calculate the following information based upon the associated entries in the above fields:														
		1.6E.8 c.1	System Numbers for Card Readers														
		1.6E.8 c.2	System Numbers for Monitor Point Inputs														
		1.6E.8 c.3	System Numbers for Control Points (Relays)														
		1.6E.8 c.4	Next DGP or input module First Monitor Point Number														

		1.6E.8 c.5	Next DGP or output module First Control Point Number														
		1.6E.8 d	The DGP spreadsheet shall provide the following information for each card reader:														
		1.6E.8 d.1	DGP Reader Number														
		1.6E.8 d.2	System Reader Number														
		1.6E.8 d.3	Cable ID Number														
		1.6E.8 d.4	Description Field (Room Number)														
		1.6E.8 d .5	Description Field (Device Type i.e.: In Reader, Out Reader)														
		1.6E.8 d.6	Description Field														
		1.6E.8 d.7	DGP Input Location														
		1.6E.8 d.8	Date Test														
		1.6E.8 d.9	Date Passed														
		1.6E.8 d.10	Cable Type														
		1.6E.8 d.11	Camera Numbers (of cameras viewing the reader location)														
		1.6E.8 e	The DGP and input module spreadsheet shall provide the following information for each monitor point (alarm input).														
		1.6E.8 e.1	DGP Monitor Point Input Number														
		1.6E.8 e.2	System Monitor Point Number														
		1.6E.8 e.3	Cable ID Number														
		1.6E.8 e.4	Description Field (Room Number)														
		1.6E.8 e.5	Description Field (Device Type i.e.: Door Contact, Motion Detector)														
		1.6E.8 e.6	DGP or input module Input Location														

		1.6E.8 e.7	Date Test														
		1.6E.8 e.8	Date Passed														
		1.6E.8 e.9	Cable Type														
		1.6E.8 e.10	Camera Numbers (of associated alarm event preset call-ups)														
		1.6E.8 f	The DGP and output module spreadsheet shall provide the following information for each control point (output relay).														
		1.6E.8 f.1	DGP Control Point (Relay) Number														
		1.6E.8 f.2	System (Control Point) Number														
		1.6E.8 f.3	Cable ID Number														
		1.6E.8 f.4	Description Field (Room Number)														
		1.6E.8 f.5	Description Field (Device: Lock Control, Local Sounder)														
		1.6E.8 f.6	Description Field														
		1.6E.8 f.7	DGP or OUTPUT MODULE Output Location														
		1.6E.8 f.8	Date Test														
		1.6E.8 f.9	Date Passed Cable Type														
		1.6E.8 f.10	Camera Number (of associated alarm event preset call-ups)														
		1.6E.8 g	The DGP, input module and output module spreadsheet shall include the following information or directions in the header and footer:														
		1.6E.8 g.1	Header														
		1.6E.8 g.1a	DGP Input and Output Worksheet														
		1.6E.8 g.1b	Enter Beginning Reader, Input, and Output Starting Numbers and Sheet Will Automatically Calculate the Remaining System Numbers.														

		1.6E.8 g.2	Footer														
		1.6E.8 g.2a	File Name														
		1.6E.8 g.2b	Date Printed														
		1.6E.8 g.2c	Page Number														
		1.6F	FIPS 201 Compliance Certificates														
		1.6F.1	Provide Certificates for all software components and device types utilizing credential verification. Provide certificates for:														
		1.6F.1 a	Card Readers														
		1.6F.1 b	PIV Middelware														
		1.6F.1 c	Certificate Management														
		1.6F.1 c.1	CAK Authentication System														
		1.6F.1 c.2	PIV Authentication System														
		1.6F.1 c.3	Certificate Validator														
		1.6F.1 c.4	Cryptographic Module														
		1.6G	Approvals will be based on complete submission of manuals together with shop drawings.														
		1.6H	After approval and prior to installation, furnish the COR with one sample of each of the following:														
		1.6H.1	A 300 mm (12 inch) length of each type and size of wire and cable along with the tag from the coils of reels from which the samples were taken.														
		1.6H.2	Each type of conduit and pathway coupling, bushing and termination fitting.														
		1.6H.3	Conduit hangers, clamps and supports.														
		1.6H.4	Duct sealing compound.														

PROJECT:	**Renovation of Outpatient Pharmacy and HVAC**			SUBMITTAL REGISTER
LOCATION:	**Northern California VAHCS | Mather, CA**			
PROJECT NO:	**612A4-19-016 | 19-103**	CONTRACT NO:	**VA261-17-D-0102**	
CONTRACTOR:		TASK ORDER NO:	**36C26119N0727**	

Activity #	Transmittal #	**Paragraph #**	Description	Required Review by	CONTRACTOR SCHEDULE DATES			CONTRACTOR ACTION DATES			APPROVING AUTHORITY DATES					Remarks
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Spec Section 28 05 13 Conductors and Cables For Electronic Safety and Security																
		1.5A	In accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES, furnish the following:													
		1.5A.1	Manufacturer's Literature and Data: Showing each cable type and rating.													
		1.5A.2	Certificates: Two weeks prior to final inspection, deliver to the Contracting Officer's Representative (COR) four copies of the certification that the material is in accordance with the drawings and specifications and diagrams for cable management system.													
		1.5A.3	Shop Drawings: Cable tray layout, showing cable tray route to scale, with relationship between the tray and adjacent structural, electrical, and mechanical elements. Include the following:													
		1.5A.3a	Vertical and horizontal offsets and transitions.													
		1.5A.3b	Clearances for access above and to side of cable trays.													
		1.5A.3c	Vertical elevation of cable trays above the floor or bottom of ceiling structure.													
		1.5A.3d	Load calculations to show dead and live loads as not exceeding manufacturer's rating for tray and its support elements.													
		1.5A.3e	System labeling schedules, including electronic copy of labeling schedules that are part of the cable and asset identification system of the software specified in Parts 2 and 3.													

Spec Section 28 05 13 Conductors and Cables For Electronic Safety and Security

		1.5A.4	Wiring Diagrams. Show typical wiring schematics including the following:													
		1.5A.4a	Workstation outlets, jacks, and jack assemblies.													
		1.5A.4b	Patch cords.													
		1.5A.4c	Patch panels.													
		1.5A.5	Cable Administration Drawings: As specified in Part 3 "Identification" Article.													
		1.5A.6	Project planning documents as specified in Part 3.													
		1.5A.7	Maintenance Data: For wire and cable to include in maintenance manuals.													

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Spec Section 28 05 26 Grounding and Bonding for Electronic Safety and Security																
		1.3A	Submit in accordance with Section 28 05 00, COMMON WORK RESULTS FOR ELECTRONIC SAFETY AND SECURITY.													
		1.3B	Shop Drawings:													
		1.3B.1	Clearly present enough information to determine compliance with drawings and specifications.													
		1.3B.2	Include the location of system grounding electrode connections and the routing of aboveground and underground grounding electrode conductors.													
		1.3C	Test Reports: Provide certified test reports of ground resistance.													
		1.3D	Certifications: Two weeks prior to final inspection, submit four copies of the following to the COR:													
		1.3D.1	Certification that the materials and installation are in accordance with the drawings and specifications.													
		1.3D.2	Certification by the contractor that the complete installation has been properly installed and tested.													

PROJECT:	**Renovation of Outpatient Pharmacy and HVAC**			SUBMITTAL REGISTER
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PROJECT NO:	**612A4-19-016 | 19-103**	CONTRACT NO:	**VA261-17-D-0102**	
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Spec Section 28 05 28.33 Conduits and Backboxes for Electronic Safety and Security																
		1.5A	Submit in accordance with Section 28 05 00, COMMON WORK RESULTS FOR ELECTRONIC SAFETY AND SECURITY and Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES. Furnish the following:													
		1.5B	Shop Drawings:													
		1.5B.1	Size and location of main feeders;													
		1.5B.2	Size and location of panels and pull boxes													
		1.5B.3	Layout of required conduit penetrations through structural elements.													
		1.5B.4	The specific items proposed, and its area of application shall be identified on the catalog cuts.													
		1.5C	Certification: Prior to final inspection, deliver to the Contracting Officer's Representative (COR) four copies of the certification that the material is in accordance with the drawings and specifications and has been properly installed.													
		1.5D	Product Data: For surface raceways, wireways and fittings, floor boxes, hinged-cover enclosures, and cabinets.													
		1.5E	Shop Drawings: For the following raceway components. Include plans, elevations, sections, details, and attachments to other work.													
		1.5E.1	Custom enclosures and cabinets.													
		1.5E.2	Handholes and boxes for underground wiring, including the following:													
Spec Section 28 05 28.33 Conduits and Backboxes for Electronic Safety and Security																

		1.5E.2a	Duct entry provisions, including locations and duct sizes.													
		1.5E.2b	Frame and cover design.													
		1.5E.2c	Grounding details.													
		1.5E.2d	Dimensioned locations of cable rack inserts, and pulling-in and lifting irons.													
		1.5E.2e	Joint details.													
		1.5F	Coordination Drawings: Conduit routing plans, drawn to scale, on which the following items are shown and coordinated with each other, based on input from installers of the items involved:													
		1.5F.1	Structural members in the paths of conduit groups with common supports.													
		1.5F.2	HVAC and plumbing items and architectural features in the paths of conduit groups with common supports.													
		1.5G	Manufacturer Seismic Qualification Certification: Submit certification that enclosures and cabinets and their mounting provisions, including those for internal components, will withstand seismic forces defined in Division 16 Section "Electrical Supports and Seismic Restraints." Include the following:													
		1.5G.1	Basis for Certification: Indicate whether withstand certification is based on actual test of assembled components or on calculation.													
		1.5G.1a	The term "withstand" means "the cabinet or enclosure will remain in place without separation of any parts when subjected to the seismic forces specified and the unit will retain its enclosure characteristics, including its interior accessibility, after the seismic event."													
		1.5G.2	Dimensioned Outline Drawings of Equipment Unit: Identify center of gravity and locate and describe mounting and anchorage provisions.													
		1.5G.3	Detailed description of equipment anchorage devices on which the certification is based and their installation requirements.													
		1.5H	Source quality-control test reports.													

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CONTRACTOR:		TASK ORDER NO:	**36C26119N0727**	

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Spec Section 28 16 00 Intrusion Detection System																
		1.5A	Refer to Section 28 05 00, Part1													
		1.5B	Submit below items in conjunction with Master Specification Sections 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES, and Section 02 41 00, DEMOLITION.													
		1.5C	Provide certificates of compliance with Section 1.3, Quality Assurance.													
		1.5D	Provide a shop drawing and as-built design package in both electronic format and on paper, minimum size 1220 x 1220 millimeters (48 x 48 inches); drawing submittals shall be per the established project schedule.													
		1.5E	Shop drawing and as-built packages shall include:													
		1.5E.1	Index Sheet that shall:													
		1.5E.1a	Define each page of the design package to include facility name, building name, floor, and sheet number.													
		1.5E.1b	Provide a list of all security abbreviations and symbols.													
		1.5E.1c	Reference all general notes that are utilized within the design package.													
		1.5E.1d	Specification and scope of work pages for all security systems that are applicable to the design package that will:													
		1.5E.1d .1	Outline all general and job specific work required within the design package.													

		1.5E.1d .2	Provide a device identification table outlining device Identification (ID) and use for all security systems equipment utilized in the design package.													
		1.5E.2	Drawing sheets that shall be plotted on the individual floor plans or site plans shall:													
		1.5E.2a	Include a title block as defined above.													
		1.5E.2b	Define the drawings scale in both standard and metric measurements.													
		1.5E.2c	Provide device identification and location.													
		1.5E.2d	Address all signal and power conduit runs and sizes that are associated with the design of the electronic security system and other security elements (e.g., barriers).													
		1.5E.2e	Identify all pull box and conduit locations, sizes, and fill capacities.													
		1.5E.2f	Address all general and drawing specific notes for a particular drawing sheet.													
		1.5E.3	A riser drawing for each applicable security subsystem shall:													
		1.5E.3a	Indicate the sequence of operation.													
		1.5E.3b	Relationship of integrated components on one diagram.													
		1.5E.3c	Include the number, size, identification, and maximum lengths of interconnecting wires.													
		1.5E.3d	Wire/cable types shall be defined by a wire and cable schedule. The schedule shall utilize a lettering system that shall correspond to the wire/cable it represents (example: A = 18 AWG/1 Pair Twisted, Unshielded). This schedule shall also provide the manufacturer's name and part number for the wire/cable being installed.													
		1.5E.4	A system drawing for each applicable security system shall:													
		1.5E.4a	Identify how all equipment within the system, from main panel to device, shall be laid out and connected.													
		1.5E.4b	Provide full detail of all system components wiring from point-to-point.													
		1.5E.4c	Identify wire types utilized for connection, interconnection with associate security subsystems.													

		1.5E.4d	Show device locations that correspond to the floor plans.													
		1.5E.4e	All general and drawing specific notes shall be included with the system drawings.													
		1.5E.5	A schedule for all of the applicable security subsystems shall be included. All schedules shall provide the following information:													
		1.5E.5a	Device ID.													
		1.5E.5b	Device Location (e.g. site, building, floor, room number, location, and description).													
		1.5E.5c	Mounting type (e.g. flush, wall, surface).													
		1.5E.5d	Power supply or circuit breaker and power panel number.													
		1.5E.5e	In addition, for the IDS, provide the sensor ID, sensor type and housing model number.													
		1.5E.6	Detail and elevation drawings for all devices that define how they were installed and mounted.													
		1.5F	Shop drawing packages shall be reviewed by the Contractor along with the COR to ensure all work has been clearly defined and completed. All reviews shall be conducted in accordance with the project schedule. There shall be four (4) stages to the review process:													
		1.5F.1	35 percent													
		1.5F.2	65 percent													
		1.5F.3	90 percent													
		1.5F.4	100 percent													
		1.5G	Provide manufacturer security system product cut-sheets. Submit for approval at least 30 days prior to commencement of formal testing, a Security System Operational Test Plan. Include procedures for operational testing of each component and security subsystem, to include performance of an integrated system test.													
		1.5H	Submit manufacture's certification of Underwriters Laboratories, Inc. (UL) listing as specified. Provide all maintenance and operating manuals per the VA General Requirements, Section 01 00 00, GENERAL REQUIREMENTS.													

PROJECT:	**Renovation of Outpatient Pharmacy and HVAC**			SUBMITTAL REGISTER
LOCATION:	**Northern California VAHCS | Mather, CA**			
PROJECT NO:	**612A4-19-016 | 19-103**	CONTRACT NO:	**VA261-17-D-0102**	
CONTRACTOR:		TASK ORDER NO:	**36C26119N0727**	

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Spec Section 28 31 00 Fire Detection and Alarm																
		1.4A	General: Submit 5 copies in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES, and Section 26 05 11, REQUIREMENTS FOR ELECTRICAL INSTALLATIONS.													
		1.4B	Drawings:													
		1.4B.1	Prepare drawings using AutoCAD latest Release software and include all contractors information. Layering shall be by VA criteria as provided by the Contracting Officer Representative (COR). Bid drawing files on AutoCAD shall be provided to the Contractor at the pre-construction meeting. The contractor shall be responsible for verifying all critical dimensions shown on the drawings provided by VA.													

		1.4B.2	Floor plans: Provide locations of all devices (with device number at each addressable device corresponding to control unit programming), appliances, panels, equipment, junction/terminal cabinets/boxes, risers, electrical power connections, individual circuits and raceway routing, system zoning; number, size, and type of raceways and conductors in each raceway; conduit fill calculations with cross section area percent fill for each type and size of conductor and raceway. Only those devices connected and incorporated into the final system shall be on these floor plans. Do not show any removed devices on the floor plans. Show all interfaces for all fire safety functions.													
		1.4B.3	Riser diagrams: Provide, for the entire system, the number, size and type of riser raceways and conductors in each riser raceway and number of each type device per floor and zone. Show door holder interface, elevator control interface, HVAC shutdown interface, fire extinguishing system interface, and all other fire safety interfaces. Show wiring Styles on the riser diagram for all circuits. Provide diagrams both on a per building and campus wide basis.													
		1.4B.4	Detailed wiring diagrams: Provide for control panels, modules, fiber patch panel, fiber transceivers showing termination identifications, size and type conductors, circuit boards, LED lamps, indicators, adjustable controls, switches, ribbon connectors, wiring harnesses, terminal strips and connectors, spare zones/circuits, battery and battery calculations. Diagrams shall be drawn to a scale sufficient to show spatial relationships between components, enclosures and equipment configuration.													
		1.4C	Manuals:													

		1.4C.1	Submit simultaneously with the shop drawings, companion copies of complete maintenance and operating manuals including technical data sheets for all items used in the system, power requirements, device wiring diagrams, dimensions, and information for ordering replacement parts.													
		1.4C.1a	Wiring diagrams shall have their terminals identified to facilitate installation, operation, expansion and maintenance.													
		1.4C.1b	Wiring diagrams shall indicate internal wiring for each item of equipment and the interconnections between the items of equipment.													
		1.4C.1c	Include complete listing of all software used and installation and operation instructions including the input/output matrix chart.													
		1.4C.1d	Provide a clear and concise description of operation that gives, in detail, the information required to properly operate, inspect, test and maintain the equipment and system. Provide all manufacturer's installation limitations including but not limited to circuit length limitations.													
		1.4C.1e.	Complete listing of all digitized voice messages.													
		1.4C.1f	Provide standby battery calculations under normal operating and alarm modes. Battery calculations shall include the magnets for holding the doors open for one minute.													
		1.4C.1g	Include information indicating who will provide emergency service and perform post contract maintenance.													
		1.4C.1h	Provide a replacement parts list with current prices. Include a list of recommended spare parts, tools, and instruments for testing and maintenance purposes.													

		1.4C.1i	A computerized preventive maintenance schedule for all equipment. The schedule shall be provided on disk in a computer format acceptable to the VAMC and shall describe the protocol for preventive maintenance of all equipment. The schedule shall include the required times for systematic examination, adjustment and cleaning of all equipment. A print out of the schedule shall also be provided in the manual. Provide the disk in a pocket within the manual.													
		1.4C.1j	Furnish manuals in 3 ring loose-leaf binder or manufacturer's standard binder.													
		1.4C.1k	A print out print for all devices proposed on each signaling line circuit with spare capacity indicated.													
		1.4C.2	Two weeks prior to final inspection, deliver 4 copies of the final updated maintenance and operating manual to the COTRCOR.													
		1.4C.2a	The manual shall be updated to include any information necessitated by the maintenance and operating manual approval.													
		1.4C.2b	Complete "As installed" wiring and schematic diagrams shall be included that shows all items of equipment and their interconnecting wiring. Show all final terminal identifications.													
		1.4C.2c	Complete listing of all programming information, including all control events per device including an updated input/output matrix.													
		1.4C.2d	Certificate of Installation as required by NFPA 72 for each building. The certificate shall identify any variations from the National Fire Alarm Code.													
		1.4C.2e	Certificate from equipment manufacturer assuring compliance with all manufacturers installation requirements and satisfactory system operation.													
		1.4D	Certifications:													

PROJECT:	Renovation of Outpatient Pharmacy and HVAC			SUBMITTAL REGISTER
LOCATION:	Northern California VAHCS | Mather, CA			
PROJECT NO:	612A4-19-016 | 19-103	CONTRACT NO:	VA261-17-D-0102	
CONTRACTOR:		TASK ORDER NO:	36C26119N0727	

		1.4D.1	Together with the shop drawing submittal, submit the technician's NICET level III fire alarm certification as well as certification from the control unit manufacturer that the proposed performer of contract maintenance is an authorized representative of the major equipment manufacturer. Include in the certification the names and addresses of the proposed supervisor of installation and the proposed performer of contract maintenance. Also include the name and title of the manufacturer's representative who makes the certification.													
		1.4D.2	Together with the shop drawing submittal, submit a certification from either the control unit manufacturer or the manufacturer of each component (e.g., smoke detector) that the components being furnished are compatible with the control unit.													
		1.4D.3	Together with the shop drawing submittal, submit a certification from the major equipment manufacturer that the wiring and connection diagrams meet this specification, UL and NFPA 72 requirements.													