DEPARTMENT OF FORESTRY AND FIRE PROTECTION

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ADDENDUM 5 TO:
Contract Number 9TSC0107, Project Number 3540SRAEUCO0182
Parkfield Fire Station - Facility Replacement

August 4, 2026

Please review the following **addendum** to Contract Number **9TSC0107**. Project Number **3540SRAEUCO0182.**

The contact person for this Addendum is:

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Please note that no *verbal* information given will be binding upon the State unless such information is issued in writing as an official addendum.

Dennis Schrader

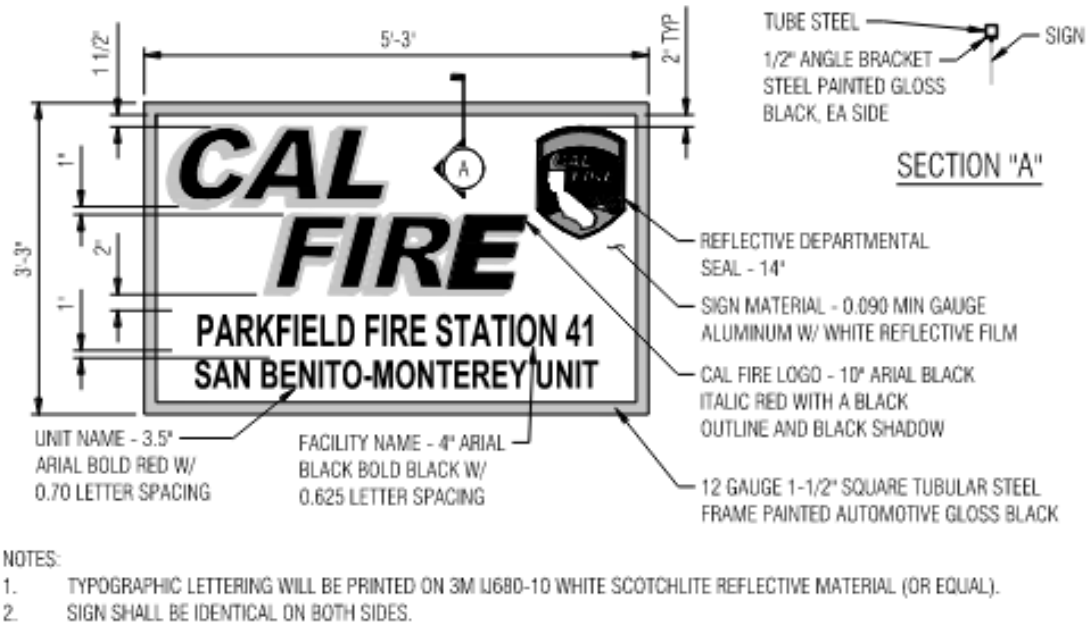
Dennis Schrader
Capital Outlay & Procurement Manager I

Please note the following changes to Contract Number 9TSC0107, Project Number 3540SRAEUCO0182

All changes to the Construction Documents identified in this Bid Addendum are issued for bidding purposes. These changes will be incorporated into the Construction Documents through a consolidated Construction Change Document (CCD) issued after the Notice to Proceed. The CCD will be submitted to the Division of the State Architect and the Office of the State Fire Marshal. Changes affecting Structural Safety, Access Compliance, or Fire & Life Safety are subject to review and approval prior to construction of the affected work.

Drawings

1. Sheet CS502
    - Revise detail 1 for the station sign to include the following:



NOTES:
1. TYPOGRAPHIC LETTERING WILL BE PRINTED ON 3M IJ680-10 WHITE SCOTCHLITE REFLECTIVE MATERIAL (OR EQUAL).
2. SIGN SHALL BE IDENTICAL ON BOTH SIDES.

2. Sheet LS101
    - Revise legend to append the following:
        - Native Coastal Perennial with “Coyote Brush or similar”
        - Medium Native Flowering Shrub with “California Buckwheat or similar”
        - Large Native Flowering Shrub with “Manzanita or similar”
    - Add hatching for “One Sided Blue Grass or Similar to the vegetated swale

3. Sheet A601, Door Schedule
    - Revise “Width” and “Height” columns of doors #4, 5, 8, and 9 to 12’-0”
    - Add the following to “Remarks & Abbrev.” column of Door #28:
        - 2’-0” SIDELIGHT

4. Sheet M601, Air Intake Louvers Schedule
    - Replace Vulcan Vent VGFF WUI louvers with standard door louvers per Arch drawings or Greenheck ESD-635 wall louvers and install Wildfire Defense Mesh 98 to meet WUI requirements.

5. Sheet M603
    - Replace R-410A refrigerant type HVAC products with R32 refrigerant type products, see table below for updated basis-of-design products.

Equipment ID	R-410A Daikin Model	Equivalent R32 Daikin Model
ODU-1	REYQ72XATJA	REYA72AATJA
ODU-2	REYQ96XATJA	REYA96AATJA
ODU-3	RX09BXVJU	RXT09AVJU9
IDU-1-7, 9	FXAQ07PVJU	FXAA07AAVJU

IDU-8, 12-13	FXAQ12PVJU	FXAA12AAVJU
IDU-10, 14	FXTQ30TAVJUD	FXTA30ABVJUD
IDU-11	FXTQ54TAVJUD	FXTA54ABVJUD
IDU-15	FTX09BXVJU	FTXV09AVJU9
HRCU-1	BS10Q54TVJ	BS10Q54TAVJ
HRCU-2	BS8Q54TVJ	BSF8A54AAVJ

- For HRCU's, branch selector box enclosures will be added with refrigerant leak mitigation measures including refrigerant leak detection sensor and small exhaust fan (~30 cfm per enclosure) to roof vent.

2. Sheets P102F, P104F, P105F, and P604
   - Replace instantaneous gas water heater (GWH-2) with electric resistance storage tank water heater (EWH-1), i.e. A.O. Smith DEL-30.
   - Delete gas supply to Work Room

Specifications

1. Section 051200 – STRUCTURAL STEEL FRAMING
   - Remove paragraphs 1.7 A "Fabricator Qualifications" and 1.7 B "Installer Qualifications".

2. Section 101419.
   - Remove paragraph 2.2 A for delegated design.

3. Section 101423
   - Remove paragraph 2.2 A for delegated design.

4. Section 263100 – PHOTOVOLTAIC SOLAR SYTEM
   - Add new specification section attached

5. Section 312000 – EARTH MOVING
   - Update paragraph 3.9 C to "Exposed over-excavated surface below structures and pavement shall be scarified approximately 12 inches and compacted to 90 percent relative compaction, using modified proctor, at a moisture content at least 2% above optimum."

END OF ADDENDUM NO. 5

ATTACHMENTS:

263100 – PHOTOVOLTAIC SOLAR SYSTEM

SECTION 263100 - PHOTOVOLTAIC SOLAR SYSTEM

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:

1. PV system description.
2. PV system requirements, capacities, and characteristics.
3. Inverters.
4. PV modules.
5. PV array construction.
6. System overcurrent protection.

1.3 DEFINITIONS

A. CEC: California Energy Commission.

B. ETFE: Ethylene tetrafluoroethylene.

C. FEP: Fluorinated ethylene propylene.

D. IP Code: Required ingress protection to comply with IEC 60529.

E. MPPT: Maximum power point tracking.

F. PTC: PVUSA Test Condition. Commonly regarded as a "real-world" measure of PV output. See below for definition of "PVUSA."

G. PV: Photovoltaic.

H. PVUSA: Photovoltaics for Utility Systems Applications.

I. STC: Standard Test Conditions defined in IEC 61215.

1.4 ACTION SUBMITTALS

A. Delegated Design and Shop Drawings:

1. Submit complete PV system design, including structural and electrical components, for review and approval prior to any DSA submittal.
2. Include plans, elevations, sections, mounting details, member sizes, connections, foundation and anchorage, electrical schematics, conduit, and cable routing. Coordinate with underground conduit routing shown on Drawings.
3. Include diagrams for power, signal, and control wiring.
4. Completed CA Rule 21 Solar Interconnection Application, required to make line side tie-in of PV solar system AC output to utility switchboard, as shown on Drawings. Coordinate with utility to obtain application, fill out, then submit to Engineer for review before submitting to electric utility.
5. Demonstrate compliance with:

    a. Compatibility with DSA Pre-Check Approved carport.
    b. Module, inverter, and mounting performance requirements.

B. Product Data: For each type of product.

1. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for PV panels.
2. Include rated capacities, operating characteristics, electrical characteristics, and furnished specialties and accessories.

1.5 INFORMATIONAL SUBMITTALS

A. Field quality-control reports.

B. Sample Warranty: For manufacturer's special materials and workmanship warranty and minimum power output warranty.

1.6 CLOSEOUT SUBMITTALS

A. Operation and Maintenance Data: Include PV modules, inverters, mounting structures, and other components in the project O&M manuals.

1.7 PRE-INSTALLATION MEETING

A. PV/Solar Sub-Contractor shall provide the electrical Contractor a functional overview of the PV system prior to installation. Contractor shall schedule the pre-installation site visit after receipt of approved submittals to review the following:

1. Confirm the location and mounting of all PV modules, inverters, disconnect, conduit, wiring, and line side tie-in to the utility switchboard.
2. Review the specifications for wiring, mounting, and anchoring.
3. Discuss the functionality and configuration of all devices, per design requirements.
4. Discuss requirements for integration with other trades.

1.8 WARRANTY

A. Manufacturer's Special Warranty: Manufacturer agrees to repair or replace components of PV modules that fail in materials or workmanship within specified warranty period.

1. Manufacturer's materials and workmanship warranties include, but are not limited to, the following:

a. Faulty operation of PV modules.
b. Faulty operation of PV inverter.

2. Warranty Period:

a. 25 years from date of Substantial Completion for PV modules.
b. 10 years from date of Substantial Completion for PV inverter.

B. Manufacturer's Special Minimum Power Output Warranty: Manufacturer agrees to repair or replace components of PV modules that fail to exhibit the minimum power output within specified warranty period. Special warranty, applying to modules only, applies to materials only, on a prorated basis, for period specified.

1. Manufacturer's minimum power output warranties include, but are not limited to, the following warranty periods, from date of Substantial Completion:

a. Specified minimum power output according to the following time periods, based on a maximum annual degradation of 0.33 percent after year 1:

1) At end of year 1: 98 percent.
2) At end of year 25: 90.5 percent.

PART 2 - PRODUCTS

2.1 PV SYSTEM DESCRIPTION

A. PV system shall:

1. Provide power per the Drawings and as described herein.
2. Be compatible with DSA Pre-Check Approved carport mounting system, shown on Drawings.
3. Include modules, utility connected inverter, AC and DC overcurrent protection and disconnects, cabling, junction boxes, signage, and all appurtenances required to create a working system.
4. Include a line side tie-in to the utility switchboard, as shown on Drawings.
5. Support electrical and structural design loads specified on structural notes.

B. Mounting Structures: Delegated design to support PV modules and comply with structural, wind, snow, and seismic requirements.

1. Basis for Certification: Indicate whether withstand certification is based on actual test of assembled components or on calculation.

2. Dimensioned Outline Drawings of Equipment Unit: Identify center of gravity and locate and describe mounting and anchorage provisions.
3. Detailed description of equipment anchorage devices on which the certification is based and their installation requirements.

2.2 PV SYSTEM REQUIREMENTS, CAPACITIES, AND CHARACTERISTICS

A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.

B. Array of modules in a quantity and layout required to generate a total nominal rated output of 20 kW (DC) minimum.

C. Max System (DC) Voltage: 1,000 V dc.

2.3 INVERTERS

A. Description: Central type.

B. Basis-of-Design Product: Subject to compliance with requirements, provide CPS (Chint Power Systems America) CPS SCA25KTL-DO/US-208 or comparable product by one of the following:

1. Yaskawa Solectria Solar.
2. Solis.

C. Inverter Electrical Characteristics:

1. Maximum Recommended PV Input Power: 45 kW.
2. Minimum Rated AC Output Power: 20 kW @ P.F. > 0.99.
3. Minimum Number of Independent MPPT Circuits: 3.
4. Nominal Output Voltage: 3-phase 208 V ac.
5. Minimum Peak Efficiency: 97 percent.
6. Minimum CEC Weighted Efficiency: 96.5 percent.
7. AC/DC Surge Protection: Type II MOV.
8. Utility Interface: Utility-interactive inverter.

D. Enclosure:

1. NEMA 4X.
2. Enclosure Material: Powder-coated aluminum.
3. Cooling Methods: Variable speed fans.

E. Disconnects: Rated for system voltage and conductor.

F. Regulatory Approvals:

1. IEEE 1547.
2. UL 1741-SA/SB.
3. UL 1699B.
4. UL 1998.

5. CPUC CA Rule 21.

2.4 PV MODULES

A. Description: Crystalline silicon type.

B. Basis-of-Design Product: Subject to compliance with requirements, provide REC Solar PTE. LTD. ALPHA PURE-RX or comparable product by one of the following:

1. CSI Solar Co., Ltd.
2. Hanwha Q CELLS America Inc.
3. Maxeon Solar Technologies.
4. Panasonic Eco Systems North America.

C. Module Requirements:

1. Maximum Module PSF: 2.25 lb/sq. ft.
2. Nominal Output Power: 450 W at STC.
3. Minimum Efficiency: 21 percent at STC.
4. Maximum Temperature Coefficient (Pmax): -0.30 percent / °C.
5. Maximum System Voltage: 1,000 V dc.
6. Max Series Fuse Rating: 25 A.
7. Front Panel/Cover: 1/8 inch minimum tempered glass with anti-reflective coating according to EN12150.
8. Minimum Hail Rating: 45mm diameter according to IEC 61215.
9. Frame: Anodized aluminum.

D. Junction Box:

1. Protection Class: IP67 minimum.
2. Bypass Diodes: 3 minimum.
3. Connectors: MC4 or compatible PV-rated connectors.

E. Regulatory Approvals:

1. UL 61730.
2. UL 1703
3. IEC 61215.
4. IEC 61701.
5. IEC 62716.
6. 2019 CEC.

2.5 PV ARRAY CONSTRUCTION

A. Framing: Manufacturer-provided framing system compatible with DSA Pre-Check carport.

B. Maximum weight, load, and deflection: Per structural requirements and PV module manufacturer’s recommendations.

C. Electrical connections, grounding, and cabling: Installed per PV inverter and module manufacturer's instructions, as specified in delegated-design.

D. No field painting anticipated; factory-applied finishes are acceptable.

2.6 SYSTEM OVERCURRENT PROTECTION

A. General Requirements: Sized and specified under the PV system delegated-design and as shown on Drawings.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrate areas and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.

B. Do not begin installation until mounting surfaces have been properly prepared.

C. If preparation of mounting surfaces is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

D. Examine modules and array frame before installation. Reject modules and arrays that are wet, moisture damaged, or mold damaged.

E. Examine roofs, supports, and supporting structures for suitable conditions where PV system will be installed.

F. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

A. Comply with NECA 1.

B. Coordinate utility-interactive connections with the electric utility, shown on Drawings.

C. Seal penetrations to maintain weatherproofing.

D. Coordinate layout and installation of PV panels with support assembly and other construction.

E. Support PV panel assemblies independent of supports for other elements such as roof and support assemblies, enclosures, vents, pipes, and conduits. Support assembly to prevent twisting from eccentric loading.

F. Install PV inverters and rapid shutdown devices in locations indicated on delegated-design Drawings.

G. Wiring Method: Install cables in raceways.

H. Wiring within Enclosures: Bundle, lace, and train conductors to terminal points with no excess and without exceeding manufacturer's limitations on bending radii. Install lacing bars and distribution spools.

3.3 CONNECTIONS

A. Coordinate PV panel cabling to equipment enclosures to ensure proper connections.

B. Coordinate installation of utility-interactive meter with utility.

C. Tighten electrical connectors and terminals according to manufacturer's published torque-tightening values. If manufacturer's torque values are not indicated, use those specified in UL 486A-486B.

D. Make splices, terminations, and taps that are compatible with conductor material and that possess equivalent or better mechanical strength and insulation ratings than unspliced conductors.

END OF SECTION 263100