TECHNICAL SPECIFICATIONS AND REQUIREMENTS FOR OPERATION

Funding for any agreement resulting from this Notice of Funding Opportunity (NOFO) will be paid from National Electric Vehicle Infrastructure (NEVI) formula funds. All applicable requirements of Title 23 United States Code (USC) and 2 Code of Federal Regulations (CFR) Part 200 apply to the administration of these funds, which include, but are not limited to: 23 CFR 680, the Davis-Bacon Act, the Americans with Disabilities Act of 1990 (ADA), Title VI of the Civil Rights Act of 1964, the National Environmental Policy Act of 1969 (NEPA), and the Build America, Buy America (BABA) Act. The Grantee must also comply with all other standards and requirements required by federal, state, and local laws.

Electric Vehicle Supply Equipment (EVSE) funded under any agreement resulting from this NOFO will be covered by the ***Build America, Buy America Implementation Plan to Enhance Buy America for Electric Vehicle (EV) Chargers.***

In addition to the above, Grantees must comply with the following technical requirements.

1	1. Project Site Requirements	
1.1	Distance from AFC	The Project site shall be within a maximum driving distance of 1 mile from the Alternative Fuel Corridor (AFC). The measurement of the distance shall begin from the end of the nearest interstate off-ramp to the charging station and conclude at the entrance to the charging station.
1.2	Distance from other station(s) meeting NEVI requirements	The Project site shall be no further than 50 miles from another charging station meeting all minimum requirements of the NEVI program, and all corridor termini must have a station located within 25 miles of the state border.
1.5	Site Accessibility	The Project site shall be accessible to the public and reachable from a public road 24 hours per day, 7 days per week, throughout the year, without a fee. Access to the Project site must have adequate traffic control measures, such as signage, signals, striping, etc. These sites may be situated on private property.
1.6	ADA Compliance	Site includes at least one parking space that factors in the U.S. Access Board's Design Recommendations for Accessible Electric Vehicle Charging Stations (Not exclusive ADA use)
1.7	Traffic Control Devices or On-Premises Signs Acquired, Installed, or Operated	The Grantee shall adhere to the requirements of 23 CFR 680.110.
1.8	Safety Lighting	The Project site shall provide lighting to illuminate all EVSE and corresponding parking spaces. Lighting levels and requirements shall be consistent with existing jurisdictional and zoning requirements.

1.9	Cell Phone Service	The Grantee shall make certain that there is adequate cell phone service available at the Project site. This may include an open access Wi-Fi hotspot.
1.10	Pull-Through Charging	Grantee shall provide a minimum of one pull-through charging space at one charging station along the I-205 corridor, one charging station along the I-5 corridor, and at two charging stations along the U.S. 97 corridor. Pull-through design shall consider ingress and egress, station design, and shall enable vehicles pulling a trailer and medium-duty vehicles to easily access charging.
1.11	Trash and Recycling Receptacles	The Project site shall have trash and recycling receptacles available to site users. The trash and recycling receptacles shall be emptied and maintained on a regular basis to prevent overflow of contents. If recycling services are not available in the Project site location, the Applicant must state that clearly in the application.
1.12	Snow Removal	The Grantee shall provide snow and ice removal service at the Project site when snow accumulates above 1 inch within 2 hours of the end of the weather event.
1.13	Fire Extinguisher	The Grantee shall provide a functioning Class C fire extinguisher within 10 feet of the EVSE.
1.14	Physical Security	All EVSE, electrical infrastructure, and other equipment at the Project site shall be protected (e.g., bollards) from being hit by vehicles from inside and outside of the site. They must also be secured physically to prevent unauthorized access.
1.15	Conduit and Wiring	Applicant shall provide conduit and wiring for a minimum of two additional high-powered chargers (150kW and above) for each Charging Station at time of installation.

2	2. EVSE Requirements	
2.1	Range of Operating Temperature	EVSE shall be capable of operating over an ambient temperature range of minus 22 degrees to 122 degrees Fahrenheit
2.2	Range of Output Current	All charging ports shall be able to provide output currents up to at least 350 amps of direct current (ADC).

2.3	Weather Resistance	EVSE shall be constructed to withstand harsh weather conditions, such as snow, heavy rains, extreme temperatures, and high winds. All above-ground structures, cabinets, and enclosures shall be designed in accordance with local building code standards, and EV charger enclosures shall have a minimum rating of NEMA 3R or NEMA 4.
2.4	Output Current Limit	The output current may be the lower of 350 ADC or the current required to reach 150kW based on the output voltage. The EVSE shall be capable of outputting at least one voltage and current combination that reaches 150kW per port, when all four chargers are operated simultaneously.
2.5	Charger Locks and Tamper Protection	EVSE shall incorporate security features to deter tampering. Features shall include the use of locks on enclosures and tamper-resistant screws.
2.6	Charger at above 150kW	Grantee shall provide at least one charger that is capable of charging at above 150kW at each Charging Station. This shall have no impact on the ability to provide 150kW simultaneously to all chargers.
2.7	CHAdeMO Connectors	At least one DCFC Charger must offer a permanently attached CHAdeMO connector to be capable of charging a CHAdeMO compliant vehicle.
2.7	Minimum Power Supply	The utility feed to the Project site shall have a minimum power capacity of at least 150 kW per port, and the ESVE shall have an input power rating of at least 150 kW per port.
2.8	Cord Length	Charging equipment shall provide a minimum cord length of 12 feet.
2.9	NEVI Port Power Sharing	The Project site shall have a minimum of 4 NEVI compliant charging ports. Additional charging ports that do not meet the NEVI requirements are allowed, but these additional non-NEVI ports are ineligible for NEVI funding. Power sharing between the NEVI ports and the non-NEVI ports is allowed as long as the 150 kW continuous and simultaneous power requirements for the NEVI ports are met.
2.10	Interoperability of Electric Vehicle Charging Infrastructure	The Grantee shall adhere to the requirements of 23 CFR 680.108.
2.11	Charging Network Connectivity of Electric Vehicle Charging Infrastructure	The Grantee shall adhere to the requirements of 23 CFR 680.114.
2.12	Information on Publicly Available	The Grantee shall adhere to the requirements of 23 CFR 680.116.

	Electric Vehicle Charging Infrastructure Locations, Pricing, Real-Time Availability and Accessibility Through Mapping Applications	

3	3. CYBERSECURITY AND DATA MANAGEMENT REQUIREMENTS	
3.1	Cybersecurity and Data Management Plan	The Grantee shall develop a written cybersecurity plan. The plan shall adhere to the National Institute of Standards and Technology (NIST) Cybersecurity Framework (CSF). The plan shall outline cybersecurity best practices to be used through all phases of the Project and include the EV charging and supporting infrastructure. The plan shall include security and privacy measures to be implemented, a description of how the entire system will be safeguarded against cyberattacks, and a description of how data will be securely stored, transmitted, and protected from unauthorized access, modification, or destruction. In addition, the plan will detail the expected threat surface and specify the NIST 800-53 controls to be implemented for risk reduction. The plan shall establish roles for Project governance and oversight.
3.2	Cybersecurity Event Management Team	The Grantee shall establish a Cybersecurity Event Management Team (CEMT) made of Grantee staff members who will be responsible for responding to any cybersecurity events that may occur during any phase of the Project. The Grantee shall develop a Cybersecurity Event Management Plan that outlines the processes that will be followed in response to an event, including notifying the CEMT.
3.3	Data Segmentation	Data networks used by the charging network shall be segmented to minimize the risk of unintended damage, unauthorized access, data loss, lack of service, privacy breaches, or other issues resulting from unprotected connections.
3.4	Cybersecurity Operations	Cybersecurity operations shall adhere to and maintain certification for System and Organization Controls (SOC 2) and conduct an annual SOC 2 audit.
3.5	Risk Assessment Schedule	The Grantee shall provide a schedule for regular risk assessments and process reviews. Risk assessment read-out reports shall be provided to ODOT twice per year. A baseline risk assessment shall be part of Task 3 of the Scope of Work and Deliverables and shall include penetration testing. Risk assessments shall include vulnerability scans using the

		MITRE or Cybersecurity and Infrastructure Security Agency (CISA) Common Vulnerability and Exposures (CVE) database and a report summarizing results and actions for mitigating new or existing vulnerabilities. Qualified personnel shall provide regularly scheduled security patching.
3.6	Cybersecurity Event Notification	The Grantee shall inform ODOT of any cybersecurity event that requires notification to any person under federal or state law, including data breaches or incidents affecting an electric utility, within 24 hours of the Grantee's discovery of the event.
3.7	Data Reporting	The Grantee shall report data required by 23 CFR 680.112 directly to EV-ChART at the time specified in Attachment 2, Scope of Work and Deliverables.

4	4. Operations and Maintenance Requirements	
4.1	Monthly Preventative Maintenance	The Grantee shall perform monthly preventative maintenance on the EV charging infrastructure. This shall include checking for damage and vandalism and replacing any damaged or deteriorated cables or connectors.
4.2	Customer Service	The Grantee shall provide a customer service phone line. The Grantee shall also provide a website or text message number to report problems or issues with the EVSE or Project site. The customer service phone line, and the website or text message number, shall be available 24 hours a day, 7 days a week, and posted clearly and visible at the charging stations. All contact methods must connect the customer to the Grantee and must provide access for users that have limited English proficiency and for people with disabilities.
4.3	Service Level Agreements and Warranties	The Grantee shall provide ODOT with proof of a warranty and parts replacement program, which may include a Service Level Agreement with the manufacturer.
4.4	Operations and Maintenance Plan	The Grantee shall submit an Operations and Maintenance Plan to ODOT for review and approval. The Operations and Maintenance Plan shall discuss any warranties and/or service level agreements.

5	5. Emergency Management Plan	
5.1	Emergency Management Plan	The Grantee shall develop an emergency management plan outlining actions the Grantee will take in the event of a natural disaster or other declared emergency.

6	6. Training Requirements	
6.1	Annual Safety Training	The Grantee shall provide annual safety training to all on-site staff, staff operating and maintaining the EV charging infrastructure, and local emergency personnel. The training shall address subjects like electrical safety, shutdown procedures, and firefighting techniques relevant to EVs and/or EV charging emergencies.
6.2	Qualified Workforce Training and Technician Documentation	The Grantee shall verify that the workforce installing, maintaining, and operating chargers has appropriate licenses, certifications, and training to verify that charger installation and maintenance is performed safely by a qualified and increasingly diverse workforce of licensed technicians and other laborers per 23 CFR 680.106. Workforce training is encouraged to target recruiting, training, and hiring individuals from disadvantaged communities.

7	7. Community Engagement	
7.1	Equitable Community Engagement Plan	The Grantee must supply any relevant information regarding community engagement to support ODOT's development of the Community Engagement Outcomes Report per 23 CFR 680.112 (d). At a minimum, the Grantee shall provide ODOT with an explanation of benefits to the communities, and a detailed plan for stakeholder engagement and outreach (including Disadvantaged Communities).