American Samoa Power Authority



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SCOPE OF WORK

FOR THE

AMERICAN SAMOA POWER AUTHORITY TAFUNA AC PIPE REPLACEMENT AND WATER SYSTEM UPGRADE PROJECT AMERICAN RESCUE PLAN ACT OVERSIGHT OFFICE, AMERICAN SAMOA Office of the Governor | American Samoa Government COURT OF ALIGNMENT ROUTE OF ALIGNMENT | Court | Co

This project will ensure these AC pipes which are brittle, leak a lot of water, and pose a safety and health threat, are replaced. The Project will also improve the water pressure in most areas of the Pago Pago village, ensure the protection of drinking water from contaminant intrusion into the system, and sustain safe, quality drinking water for the community as well as stay in compliance with requirements by EPA



Section 0: Inspection of Work Site

- 1. The Contractor is expected to visit and thoroughly inspect the Project Site and become familiar with field conditions including accessibility and physical obstructions.
- 2. Familiarize itself with the survey, including the location of all existing buildings, utilities, conditions, street, equipment, components, and other attributes having or likely to have an impact on the Project;
- 3. Should there be omissions or discrepancies in the plans and specifications, or discrepancies from actual site conditions, bring them to the attention of the ASPA Procurement Manager ten (10) working days in advance of the date of bid opening so that corrections or clarifications can be made.
- 4. Bid submission indicates familiarity with, and acceptance of, field conditions. No claim for additional compensation will be allowed which is based upon a misunderstanding or lack of knowledge, examination, inspection, and/or testing of any of the above items by the Offeror.

Section 1: Mobilization and Demobilization.

The work consists of the mobilization and demobilization of the contractor's forces and equipment necessary for performing the work required under the contract. It does not include mobilization and demobilization for specific items of work for which payment is provided elsewhere in the contract.

Mobilization shall include all activities and associated costs for transportation of contractor's personnel, equipment, and operating supplies and expenses to the site; permits, premiums paid for performance and payment bonds including coinsurance and reinsurance agreements as applicable; and other items specified in the contract documents.

Demobilization shall include all activities and costs for transportation of personnel, equipment, and supplies not required or included in the contract from the site; including the disassembly, removal, and site cleanup of offices, buildings, and other facilities assembled on the site specifically for this contract.

Measurement for payment shall be made as a lump sum (LS). Payment will be made as the work proceeds, after the presentation of paid invoices or documentation of direct costs by the contractor showing specific mobilization and demobilization costs and supporting evidence of the charges of suppliers, subcontractors, and others. When the total of such payments is less than the lump sum contract price, the balance remaining will be included in the final contract payment. Payment of the lump sum contract price for mobilization and demobilization will constitute full compensation for the completion of the work. Payment will not be made under this item for the purchase costs of materials having a residual value, the purchase costs of materials to be incorporated into the project, or the purchase costs of operating supplies.

• **Key Deliverable**: Mobilization and demobilization completed per contract.



Section 2: Temporary Facilities and Controls

The work shall consist of Temporary facilities and the necessary controls for the project including utilities, telephone, sanitary facilities, ASPA Engineer's field office conducive to site meetings, storage sheds and building, safety requirements, first aid equipment, fire protection, security measures, protection of the Work and property, access roads and parking, environmental controls, traffic controls, weekly radio advertisement, project signs, disposal of trash, debris, and excavated material, pest and rodent control, water runoff and erosion and sedimentation control.

Measurement for payment shall be made as a lump sum (LS). Full compensation includes a lump sum cost for all equipment, labor, and materials. Payment will be made as the work proceeds, after the presentation of paid invoices or documentation of direct costs by the contractor showing specific costs and supporting evidence of the charges of suppliers, subcontractors, and others. When the total of such payments is less than the lump sum contract price, the balance remaining will be included in the final contract payment. Payment of the lump sum contract price will constitute full compensation for the completion of the work.

• **Key Deliverable**: Safe and efficient site setup.

Section 3: Potholing

The work shall consist of potholing existing underground utilities within the road right of way including demolition of existing concrete or asphalt pavement before construction. The Contractor shall perform exploratory excavations as required to collect as-built information. The Contractor shall verify the depth, location, alignment, size, and material of existing underground utilities or structures either specifically called for or not on the plans. Locate the existing utility, verify the required information, backfill the excavation, and restore the surfacing to a temporary condition, suitable for traffic as required. All data should be recorded and included in the as-built drawings.

The Contractor shall use the information obtained under this section to confirm construction/installation can be carried out as per design and specifications, otherwise, the Contractor is expected to utilize its utmost efforts and expertise to make changes to the design at no additional cost and for ASPA approval. The contractor's proposal to alter/revise the design should minimize the overall cost. The contractor shall waive ASPA from any liabilities resulting from inaccuracy and poor data gathering required under this section.

Measurement for payment shall be made as a lump sum (LS). Full compensation includes a lump sum cost for all equipment, labor, and materials. Payment will be made as the work proceeds, after the presentation of paid invoices or documentation of direct costs by the contractor showing specific costs and supporting evidence of the charges of suppliers, subcontractors, and others. When the total of such payments is less than the lump sum contract price, the balance remaining will be included in the final contract



payment. Payment of the lump sum contract price will constitute full compensation for the completion of the work.

• Key Deliverable: Accurate identification of underground utilities.

Section 4: Water Transmission and Distribution Mains (PVCO/DI PIPES)

This section shall cover the complete costs of providing all labor, equipment, and materials (not supplied by ASPA) required to complete the work specified in the contract documents either specifically called for or not on the plans, in-place complete. This Section includes the installation of water mains to the lines and grades indicated on the drawings. This includes but is not limited to survey and as-built recording, notification of public/Landowners, coordination with the cut/fill/embankment, clearing/demolition/relocation/saw cutting of existing asphalt/concrete pavement, sidewalk, curb & gutter, gravel driveway, fences, Rockwall, plants/grass, trees, power/communication line and pole other utilities and structures, haul/disposal of waste materials, crop damage payment, excavation/trenching, dewatering, Jacking and Bore Pipe under existing wall/structure, shoring/sheet piling, pipe bedding & compaction, slope/alignment checking and realigning, pipe laying including all necessary fittings, valves and appurtenances, thrust block, pipe casing/anchoring and RC Jacketing, bridge crossing, backfilling, filter fabric envelope, tracer wire and loop box, warning tape, restrained harness, electronic marker, Denso tape rust proofing with profiling mastic and restore surfacing to a temporary condition, suitable for traffic as required. This also includes decommissioning of existing AC pipes and shall be incidental to this section.

Measurement for payment shall be in linear feet (LF). The contractor shall be paid regardless of quantity and types of pipes & fittings and appurtenances, alignment, and depth with the applicable unit price tendered not to exceed the amount for the actual quantity incorporated in or removed from the work and such quantities must be supported by field measurement statements verified and signed by ASPA representative. Signed statements shall be included as an attachment to pay application requests.

• **Key Deliverable**: Installed water mains with full alignment and pressure testing.

Section 5: Fire Hydrant Assembly

This section shall cover the complete costs of providing all labor, equipment, and materials (not supplied by ASPA) required to complete the work specified in the contract document either specifically called for or not on the plans, in-place complete and shall include, but not be limited to the following: information dissemination to stakeholders, excavation, cut/fill/embankment, dewatering, haul/disposal of waste materials, installation, laying and joining of pipe fittings and appurtenances, angle fire hydrant valve, gate valve and box, hydrant wrench, gate valve key, bedding, placement and compaction of bedding and backfill materials, thrust block, miscellaneous concrete, bollard, protection of existing utilities, cleaning, testing, Denso tape rust proofing with profiling mastic and any other items necessary to accomplish the work. This also includes



decommissioning/removal of existing fire hydrants and it shall be incidental to this section.

Measurement shall be per each (EA). The contractor shall be paid regardless of quantity and types of pipes & fittings and appurtenances, alignment, and depth with the applicable unit price tendered not to exceed the amount for the actual quantity incorporated in or removed from the work and such quantities must be supported by field measurement statements verified and signed by ASPA representative. Signed statements shall be included as an attachment to pay application requests.

Key Deliverable: Fully operational fire hydrants installed.

Section 6: ARV Assembly

This section shall cover the complete costs of providing all labor, equipment and materials (not supplied by ASPA) required to complete the work specified in the contract documents either specifically called for or not on the plans, in-place complete and shall include, but not be limited to the following: information dissemination to stakeholders, excavation, cut/fill/embankment, dewatering, haul/disposal of waste materials, installation, laying and joining of pipe fittings and appurtenances, air release combination valve, fittings, marker posts, double strap saddle, corporation stop, bedding, placement and compaction of bedding and backfill materials, thrust block, miscellaneous concrete, bollard, protection of existing utilities, cleaning, testing, and any other items necessary to accomplish the work. This also includes decommissioning/removal of existing ARV and it shall be incidental to this section.

Measurement shall be per each (EA). The contractor shall be paid regardless of quantity and types of pipes & fittings and appurtenances, alignment, and depth with the applicable unit price tendered not to exceed the amount for the actual quantity incorporated in or removed from the work and such quantities must be supported by field measurement statements verified and signed by ASPA representative. Signed statements shall be included as an attachment to pay application requests.

• **Key Deliverable**: Installed ARVs with required functionality and testing.

Section 7: PRV/Meter Assembly

This section shall cover the complete costs of providing all labor, equipment, and materials (not supplied by ASPA) required to complete the work specified in the contract documents either specifically called for or not on the plans, in-place complete and shall include, but not be limited to the following: information dissemination to stakeholders, excavation, cut/fill/embankment, dewatering, haul/disposal of waste materials, installation, laying and joining of pipe and fittings, valves, meters and appurtenances, vault, gate valve key, boxes, thrust blocks bedding, placement and compaction of bedding and backfill materials, miscellaneous concrete, bollard, protection of existing utilities, cleaning, testing, Denso tape rust proofing with profiling mastic and any other items necessary to accomplish the work. This also includes decommissioning/removal of existing PRV and it shall be incidental to this section.



Measurement shall be per each (EA). The contractor shall be paid regardless of quantity, sizes, and types of pipes, fittings, appurtenances, and vaults, as well as their alignment, depth, and location with the applicable unit price tendered not to exceed the amount for the actual quantity incorporated in or removed from the work and such quantities must be supported by field measurement statements verified and signed by ASPA representative. Signed statements shall be included as an attachment to pay application requests.

Key Deliverable: Installed ARVs with required functionality and testing.

Section 8: TIE-IN

This section shall cover the complete costs of providing all labor, equipment and materials (not supplied by ASPA) required to complete the work specified in the contract documents either specifically called for or not on the plans, in-place complete and shall include, but not be limited to the following: information dissemination to stakeholders, water shutdown notice/ads, excavation, cut/fill/embankment, dewatering, haul/disposal of waste materials, installation, laying and joining of pipe, valves and fittings and appurtenances, bedding, placement and compaction of bedding and backfill materials, thrust block, miscellaneous concrete, protection of existing utilities, cleaning, testing, Denso tape rust proofing with profiling mastic and any other items necessary to accomplish the work. Using the data from Potholing, the Contractor shall submit proposed installation drawings for ASPA approval.

Measurement shall be per each (EA). The contractor shall be paid regardless of quantity and types of pipes & fittings and appurtenances, alignment, and depth with the applicable unit price tendered not to exceed the amount for the actual quantity incorporated in or removed from the work and such quantities must be supported by field measurement statements verified and signed by ASPA representative. Signed statements shall be included as an attachment to pay application requests.

Key Deliverable: Fully completed tie-ins with no significant service interruptions.

Section 9: Utility Crossing

This section shall cover the complete costs of providing all labor, equipment, and materials (not supplied by ASPA) required to complete the work specified in the contract documents either specifically called for or not on the plans, in-place complete and shall include, but not be limited to the following: information dissemination to stakeholders, cut/fill/embankment, dewatering, haul/disposal of waste materials, excavation, installation, laying and joining of pipe, fittings, valves and appurtenances, bedding, placement and compaction of bedding and backfill materials, thrust block, miscellaneous concrete, concrete jacketing, protection of existing utilities, cleaning, testing, Denso tape rust proofing with profiling mastic and any other items necessary to accomplish the work. This includes crossing under existing utilities, crossing over existing utilities, and pipe bridge crossing with concrete footing & columns with structural steel beams. Crossing



utilities that do not require ARV and elbow fittings on both ends do not count as utility crossings thus, no measurement is to be made. Using the data from Potholing, the Contractor shall submit proposed installation drawings for ASPA approval.

Measurement shall be per each (EA). The contractor shall be paid regardless of quantity and types of pipes & fittings and appurtenances, alignment and depth, concrete volume with the applicable unit price tendered not to exceed the amount for the actual quantity incorporated in or removed from the work and such quantities must be supported by field measurement statements verified and signed by ASPA representative. Signed statements shall be included as an attachment to pay application requests.

Key Deliverable: Safe installation of utility crossings.

Section 10: Water Service Stub

This section shall cover the complete costs of providing all labor, equipment, and materials (not supplied by ASPA) required to complete the work specified in the contract documents, specifically called for or not on the plans. Shall include works from water mains with service saddle to curb stop locations, in-place complete. Shall include, but not be limited to the following: information dissemination to stakeholders, excavation, cut/fill/embankment, dewatering, haul/disposal of waste materials, installation, laying and joining of pipe, fittings, valves & boxes, and appurtenances, curb stop, bollard, concrete collar, bedding, placement and compaction of bedding and backfill materials, thrust block, miscellaneous concrete, concrete jacketing, protection of existing utilities, cleaning, testing, and any other items necessary to accomplish the work. Using the data from Potholing, the Contractor shall submit proposed installation drawings for ASPA approval.

Measurement shall be per each (EA). Contractor shall be paid Contractor shall be paid regardless of quantity and types of pipes & fittings, alignment, and depth with the applicable unit price tendered not to exceed the amount for the actual quantity incorporated in or removed from the work and such quantities must be supported by field measurement statements verified and signed by ASPA representative. Signed statements shall be included as an attachment to pay application requests.

• **Key Deliverable**: Installed service stubs ready for customer connections.

Section 11: Water Laterals (PVC SCH 80 PIPES)

This section shall cover the complete costs of providing all labor, equipment, and materials (not supplied by ASPA) required to complete the work specified in the contract documents either specifically called for or not on the plans, in-place complete. This includes but is not limited to survey and as-built recording, notification of and coordination with the public/Landowners, cut/fill/embankment, site clearing/demolition/relocation/saw cutting of existing asphalt/concrete pavement, sidewalk, curb & gutter, gravel driveway, fences, Rockwall, plants/grass, trees, power/communication line and pole other utilities and structures, haul/disposal of waste materials, crop damage payment, excavation/trenching, dewatering, Jacking, and Bore

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Pipe under existing wall/structure, shoring/sheet piling, pipe bedding & compaction, slope/alignment checking and realigning, pipe laying including all necessary fittings and appurtenances, curb stop, valves, thrust block, pipe casing/anchoring and RC Jacketing, bridge crossing, backfilling, filter fabric envelope, warning tape, electronic marker, cleaning, flushing, and pressure/leak testing. This also includes decommissioning/removal of service lines and it shall be incidental to this section.

Measurement for payment shall be in linear feet (LF). The contractor shall be paid regardless of quantity and types of pipe, valves, fittings and all appurtenances, alignment, and depth with the applicable unit price tendered not to exceed the amount for the actual quantity incorporated in or removed from the work and such quantities must be supported by field measurement statements verified and signed by ASPA representative. Signed statements and test reports shall be included as an attachment to pay application requests.

• **Key Deliverable**: Installed laterals with full system integration.

Section 12: Meter Relocation

This section shall cover the complete costs of providing all labor, equipment, and materials (not supplied by ASPA) required to complete the work specified in the contract documents either specifically called for or not on the plans, in-place complete. It shall be the responsibility of the contractor to schedule disruption of services to the building owners at a minimal time not longer than 1 hour. The contractor must coordinate with ASPA Customer Service to secure a service order for the relocation of existing meters and pay for all related costs. Only the ASPA crew is allowed to relocate water meters. The contractor shall make sure the new meter box & piping have been installed, cured & pressure tested from the new meter location to the existing customer point of connection before any water meter relocation. This service line connection shall be paid under section 11 in linear feet. It shall be the contractors' responsibility to properly cap and decommission old & existing service lines and provide all necessary fittings matching the customers' pipe sizes.

Measurement shall be per each (EA). The contractor shall be paid regardless of quantity and types of pipes & fittings, alignment, and depth with the applicable unit price tendered not to exceed the amount for the actual quantity incorporated in or removed from the work and such quantities must be supported by field measurement statements verified and signed by ASPA representative. Signed statements shall be included as an attachment to pay application requests.

• **Key Deliverable**: Relocated meters with no service interruptions.

Section 13: Pressure & Leakage Testing

This section shall cover the complete costs of providing all labor, equipment, and materials required to complete the work specified in the contract documents either specifically called for or not on the plans, in-place complete. It shall be the responsibility of the contractor to schedule with ASPA Operations and to pay all costs associated with using the existing system water supply.



Measurement shall be per each (EA) testing of 1000 linear feet of water mains. The contractor shall be paid regardless of the number of testing trials until it passes standards with the applicable unit price tendered not to exceed the amount for the actual quantity incorporated in or removed from the work and such quantities must be supported by field measurement statements verified and signed by ASPA representative. Signed statements shall be included as an attachment to pay application requests.

Key Deliverable: Successfully passed pressure and leakage tests.

Section 14: Flushing & Disinfection

This section shall cover the complete costs of providing all labor, equipment, and materials required to complete the work specified in the contract documents either specifically called for or not on the plans, in-place complete. It shall be the responsibility of the contractor to schedule with ASPA Operations and to pay all costs associated with using the existing system water supply.

Measurement shall be per each (EA) disinfection of 1000 linear feet of water mains. The contractor shall be paid regardless of the number of disinfection trials until it passes EPA standards with the applicable unit price tendered not to exceed the amount for the actual quantity incorporated in or removed from the work and such quantities must be supported by field measurement statements verified and signed by ASPA representative. Signed statements shall be included as an attachment to pay application requests.

Key Deliverable: Successfully disinfected and flushed system.

Section 15: Restoration

This section shall cover the complete costs of providing all labor, equipment, and materials required to complete the work specified in the contract documents either specifically called for or not on the plans. The Contractor shall take necessary precautions to prevent damage to existing structures whether on the surface, aboveground, or underground. An attempt has been made to show major structures on the Drawings. The completeness and accuracy of the information shown cannot be guaranteed, and it is presented simply as a guide to avoid known possible difficulties.

A. Roadside Restoration: The contractor shall provide restoration in all areas outside the roadway that are impacted by construction activities. Restoration work shall meet or exceed the original condition to the satisfaction of the property owner involved at the Contractor's own expense. The Roadside Work Plan shall be submitted to the Engineer for review before the start of construction. The plan shall include photographs of areas to be disturbed in their original state and an itemized list of materials to be provided including the location of installation. Property owners adjacent to areas of roadside restoration shall be notified of the type and timing of work no less than ten working days before any disturbance.

No measurement is to be made for roadside restoration. All costs for roadside restoration shall be considered incidental to the construction and shall be included in the costs of other items of the work involved in the project.



B. Asphalt and Concrete Pavement Restoration: The contractor shall provide restoration in all roadways that are impacted by construction activities. Restoration for AC Pavement shall be full lane, trench width repair is not allowed. The contractor shall maximize the use of one full lane if alignment is designed in both lanes of the road. Restoration work shall meet or exceed the original condition to the satisfaction of the Department of Public Works. This includes but is not limited to site preparation, excavation, and earthwork, subgrade preparation, payement design and construction (including surface, base, and sub-base courses), drainage systems (culverts, stormwater drains, ditches), roadway cross-sections (lanes, shoulders, sidewalks, curbs, gutters), pavement markings, road signage, traffic signals, street lighting, bridges and overpasses, retaining walls, utility relocation and installation, material supply, environmental protection measures, landscaping, safety barriers and guardrails, bicycle, and pedestrian facilities, subsurface exploration, testing and inspection services, guardrails and fencing, utility connections, excavation for foundations, furnishing, and placing of aggregate base course, prime and asphaltic tack coats, concrete paving, and all other features for roads, in-place complete with all necessary testing.

Measurement shall be at the unit price bid per square yard (SY) in place complete. The contractor shall be paid with the applicable unit price tendered not to exceed the amount for the actual quantity incorporated in or removed from the work and such quantities must be supported by field measurement statements verified and signed by ASPA representative. Signed statements shall be included as an attachment to pay application requests.

• **Key Deliverable**: Restored surfaces to an original or better condition.

Section 16: Permits

The contractor shall be responsible for obtaining all necessary permits and other governmental approvals necessary for the development of the Project and shall obtain the same at the times necessary to meet the Project schedule. This includes but is not limited to; Staging area (DOC), Traffic control (DPS), Erosion and Sedimentation Control (ASEPA), Road Cutting and Excavation (DPW), and all others.

No measurement is to be made for this section. All costs for securing permits shall be considered incidental to the construction and shall be included in the costs of other items of the work involved in the project.

• **Key Deliverable**: All required permits secured on time.

Section 17: Archaeological Monitoring

The Contractor shall immediately notify the APE if any artifacts, skeletal remains, or other archaeological resources are unearthed during excavation or otherwise discovered on the site of the work. If directed by the APE, the Contractor



shall immediately suspend any construction activity as needed. The suspension of Work shall remain in effect until permission to proceed has been obtained by the APE from the ASPA Archaeologist, ASPHO, or private landowner, as applicable. If further site investigation, testing, and/or approval is needed, a requirement under "Testing" of this SOW shall apply.

No measurement is to be made for this section. All costs shall be considered incidental to the construction and shall be included in the costs of other items of the work involved in the project.

Key Deliverable: Immediate suspension and investigation of uncovered archaeological resources.

Section 18: Request For Information ("RFI")

If the Contractor determines that some portion of the drawings, specifications or other Contract Documents require clarification or interpretation because of an apparent error, inconsistency, omission, or lack of clarity in the Contract, the Contractor shall promptly submit a Request For Information ("RFI") and, unless otherwise directed, shall not proceed with the affected Work until ASPA has responded to the RFI. The Contractor shall efficiently plan its work to allow for timely responses to RFIs.

RFIs shall only be submitted by the Contractor on an RFI Form acceptable to ASPA. The Contractor shall clearly and concisely set forth the issue for which clarification or interpretation is sought and why a response from ASPA is needed. In the RFI, the Contractor shall set forth its interpretation or understanding of the requirements along with reasons why it reached such an understanding and must include the proposed solution. RFIs submitted without proposed solutions will be returned without review.

No measurement is to be made for this section. All costs shall be considered incidental to the construction and shall be included in the costs of other items of the work involved in the project.

Key Deliverable: Timely submission of RFIs.

Section 19: AS-BUILT AND ASSET DATABASE

This section shall cover the complete costs of providing all labor, equipment, and materials required to complete the work specified in SECTION 01 70 00 - CLOSEOUT SUBMITTALS.

No measurement is to be made for this section. All costs shall be considered incidental to the construction and shall be included in the costs of other items of the work involved in the project.

Key Deliverable: Completed as-built drawings and asset database.

Section 20: ASPA Inspection & Monitoring

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may be entitled.

The APE or its representative inspection and tests are for the sole benefit of ASPA and do not: Constitute or imply acceptance; Relieve the Contractor of responsibility for providing adequate quality control measures; Relieve the Contractor of responsibility for risk of loss or damage to the Work, materials, or equipment; Relieve Contractor of its responsibility to comply with the requirements of the Contract; or, Impair ASPA's right to reject defective or nonconforming items, or to avail itself of any other remedy to which it

No measurement is to be made for this section. All costs shall be considered incidental to the construction and shall be included in the costs of other items of the work involved in the project.

• **Key Deliverable**: Compliance with ASPA's inspection and testing requirements.

Section 21: Submittals & Review

The ASPA Project Engineer(APE) approval or acceptance of submittals is not to be construed as a complete check and does not relieve the contractor from compliance with the requirements of the contract documents. Approval or acceptance will not relieve the Contractor of the responsibility for any errors which may exist and shall be corrected at no cost to ASPA.

The Contractor is responsible for confirming and correlating all quantities and dimensions; furnishing equipment materials as specified; selecting fabrication processes and techniques of construction; coordinating his work with that of all other trades; and performing his work safely and satisfactorily.

Include the Contractor's stamp and signature indicating that the submittal has been reviewed and conforms to Contract Documents. Submittals without the Contractor's stamp will be returned without review.

No measurement is to be made for this section. All costs shall be considered incidental to the construction and shall be included in the costs of other items of the work involved in the project.

• **Key Deliverable:** Approved submittals in line with contract requirements.

Section 22: Order of Precedence

In general, treat anything mentioned in this Scope of Work but not shown on the Specifications or shown on the Specifications as if shown or mentioned in both. In the case of discrepancies between the Scope of Work and Specifications, the Scope of Work takes precedence.

• **Key Deliverable**: Resolution of discrepancies as per the order of precedence.

Section 23: Safety Control

The Contractor shall have sole responsibility for the safety, efficiency, and adequacy of the Contractor's plant, appliances, and methods, and for any damage or

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injury resulting from their failure, or improper maintenance, use, or operation. The Contractor shall be solely and completely responsible for the conditions of the project site, including safety for all persons and property in the performance of the work. This requirement shall apply continuously, and not be limited to normal working hours. The required or implied duty of the APE to conduct a construction review of the Contractor's performance does not, and shall not, be intended to include review and adequacy of the Contractor's safety measures in, on, or near the project site.

If personnel are required to enter confined spaces, any applicable OSHA requirements as well as those detailed by the manufacturer's material safety sheets will be complied with fully. It shall be the sole responsibility of the contractor for all safety and environment-related incidents at no cost to ASPA.

• **Key Deliverable**: Safe execution of work adhering to safety protocols.

Section 24: Traffic Control

The contractor will provide, erect, and maintain necessary and adequate devices for the protection of the work, the workmen, and the traveling public whenever deemed necessary. Temporary traffic control devices such as traffic cones to channel traffic, and portable barricades for warning, shall be used to guide traffic through construction areas. Advance warning devices shall be used to alert the motorist of an obstruction in the roadway.

No measurement is to be made for this section. All costs shall be considered incidental to the construction and shall be included in the costs of other items of the work involved in the project.

• **Key Deliverable**: Effective traffic management during construction.

Section 25: Equipment

- A. The Contractor is responsible for supplying and storing any equipment needed for proper installation as per the manufacturer's instructions.
- B. The Contractor shall be responsible for ensuring that all the equipment utilized during this Project meets regulatory and safety standards.

No measurement is to be made for this section. All costs shall be considered incidental to the construction and shall be included in the costs of other items of the work involved in the project.

Key Deliverable: Safe and compliant equipment use.

Section 26: Execution

- A. Personnel are required to meet all applicable OSHA requirements as well as those detailed by applicable manufacturer's material safety sheets.
- B. It shall be the Contractor's responsibility to coordinate with ASPA Operations personnel for access and if any operation changes are required.

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- C. The Contractor will ensure that there is no interruption to existing customers.
- D. The Contractor shall use proper trenching practices and environmental precautions during excavation work.
- E. The Contractor will adhere to all EPA regulations regarding sanitary sewer setbacks.
- F. The Contractor shall provide a hazardous spill prevention plan.
- G. The Contractor will adhere to the specifications provided.
- **Key Deliverable**: Efficient coordination with ASPA and environmentally compliant execution.

Section 27: Warranty

- A. ASPA will be provided with Project warranty to be initiated upon project acceptance. Said warranty will include all labor and materials needed for services due to defects and failure in product or workmanship. Should ASPA detect any defects in product or workmanship, the Contractor shall correct the detected defects by re-performing the services immediately after receipt of notice from ASPA. Such corrections shall occur at no additional cost to ASPA.
- B. ASPA will be provided with documentation on all manufacturer warranties on materials purchased and turned over to ASPA during this Project.

Key Deliverable: Warranty documentation provided upon project acceptance.

Section 28: Project Schedule and Timeline

The Contractor is responsible for providing a detailed project timeline, including start and end dates for each phase, key milestones (e.g., completion of water mains, testing, restoration), and dependencies. The Contractor is also responsible for regularly updating the timeline to reflect progress and any changes.

• **Key Deliverable**: Updated project schedule with milestones, dependencies, and deadlines.

Section 29: Quality Control and Assurance Plan

The Contractor is responsible for developing a comprehensive QC/QA plan to ensure all work meets the specified quality standards. This includes detailing testing procedures, inspection schedules, roles of quality inspectors, and documentation requirements. The Contractor will ensure consistent quality throughout the project.

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Key Deliverable: A documented QC/QA plan with testing procedures and inspection schedules.

Section 30: Health, Safety, and Environmental Management Plan (HSE Plan)

The Contractor is responsible for preparing a detailed HSE plan, which includes risk assessments, emergency procedures, safety equipment requirements, and environmental protections (erosion control, runoff management, etc.). The Contractor must ensure the project is executed safely and in compliance with environmental regulations.

Key Deliverable: HSE plan with risk assessments, safety protocols, and environmental protections.

Section 31: Subcontractor Management Plan

The Contractor is responsible for developing a subcontractor management plan to ensure that all subcontractors meet the project requirements. This plan must specify roles, responsibilities, performance metrics, and communication protocols. The Contractor will also be responsible for monitoring subcontractor performance and ensuring compliance with quality and safety standards.

• **Key Deliverable**: Subcontractor management plan with defined roles, responsibilities, and performance monitoring.

Section 32: Risk Management Plan

The Contractor is responsible for preparing a risk management plan that identifies potential risks (e.g., delays, unforeseen conditions) and outlines mitigation strategies. This includes contingency reserves to address risks as they arise, ensuring minimal disruption to the project.

Key Deliverable: A documented risk management plan with identified risks and mitigation strategies.

Section 33: Materials and Equipment Management Plan

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The Contractor is responsible for developing a materials and equipment management plan to ensure that all materials are sourced, stored, and used in compliance with project specifications. This plan will include inventory management, delivery schedules, storage, and handling procedures to avoid delays and waste.

• **Key Deliverable**: Materials and equipment management plan with tracking and storage procedures.

Section 34: Sustainability and Environmental Compliance

The Contractor is responsible for developing a sustainability plan, including measures for waste reduction, energy efficiency, water conservation, and long-term environmental monitoring. The Contractor will ensure compliance with local and international environmental standards (e.g., EPA) throughout the project.

• **Key Deliverable**: Sustainability plan with waste reduction, energy efficiency, and environmental monitoring measures.

Section 35: Public Relations and Communication Plan

The Contractor is responsible for creating a communication plan to keep stakeholders, the public, and local authorities informed about project milestones, disruptions, and safety precautions. The plan will include regular updates and communication channels to address concerns and queries.

• **Key Deliverable**: Communication plan with strategies for engaging stakeholders and the public.

Section 36: Project Closeout Procedures

The Contractor is responsible for establishing a project closeout procedure, which includes final inspections, preparation of as-built drawings, submission of final documentation, and the transfer of project ownership to the client. This ensures a smooth transition and proper documentation of the completed work.

• **Key Deliverable**: Project closeout procedure with final inspections, as-built drawings, and documentation.

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Section 39: Project Team Roles and Responsibilities

The Contractor is responsible for defining clear roles and responsibilities for the project team, including the contractor, project manager, ASPA representatives, and subcontractors. This ensures smooth project execution and accountability across all team members.

• **Key Deliverable**: A team roles and responsibilities matrix to define accountability and coordination.

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