KALOKO-HONOKŌHAU NATIONAL HISTORICAL PARK (KAHO), HAWAI'I

DEMOLISH & REMOVE COMPOSTING TOILET & APPURTENANCES AT AIMAKAPA FISHPOND

PMIS No. 340501

CONSTRUCTION SPECIFICATIONS

NATIONAL PARK SERVICE
PACIFIC WEST REGION

MARCH 2026

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DIVISION 01

GENERAL REQUIREMENTS

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SECTION 01 00 00 – SUMMARY OF WORK

PART 1 – GENERAL

1.1 SUMMARY

A. Section includes the following:

1. Work Covered by Contract Documents
2. Work Phases / Sequence
3. Work Under Other Contracts
4. Government-Furnished Items
5. Government-Furnished Documents
6. Conduct of Operations
7. Contractor Use of the Site
8. Public Use of the Site
9. Government Use of the Site
10. Occupancy Requirements for Buildings & Areas
11. Codes
12. Permits
13. Professional Services
14. Utility Interruptions
15. Vehicles & Equipment

1.2 WORK COVERED BY CONTRACT DOCUMENTS

A. Project Location: Kaloko-Honokōhau National Historical Park (KAHO), Hawaii.

B. Project Background: In 1993, a composting toilet structure with accessible ramp was constructed at the Aimakapa Fishpond site at Kaloko-Honokōhau National Historical Park, Hawaii.

Since Covid-19 began, the mechanical components in the two (2) composting units have ceased to function. The toilet has since been closed to visitors, and the structure has degraded over time. The park has determined that a composting toilet is no longer appropriate for this site. The park has decided to demolish and remove the composting toilet and appurtenances from the site. Refer to PART 1.2.C for the Project Scope of Work.

Note that the only overland access to/from the composting toilet at the Aimakapa Fishpond site is along the historic Ala Kahakai National Historic Trail (ALKA). The distance along this trail from the Honokōhau Small Boat Harbor Parking to the compost toilet site is approximately 1,200 linear feet. Certain mitigation requirements shall be followed during the Work. Refer to PART 1.2.D for the Project Mitigations.

C. Project Scope of Work: The Work consists of the following:

1. Demolish and remove the composting toilet structure, accessible ramp, and appurtenances from the Aimakapa Fishpond site at Kaloko-Honokōhau National Historical Park to include:

a. Two (2) Phoenix composting toilet chambers. Assume the chambers still contain composted human waste. Ensure 100% containment of waste during the removal and transport of these chambers. Recommend removing these first to mitigate spills.

b. Composting system appurtenances to include, but not limited to, drums, blowers, fans, ducts, hoses, conduit, wire, controls, panels, lights, hardware, fasteners, batteries, etc.

c. Toilets, bathroom fixtures, sewer pipes, ventilation pipes, etc.

d. Wooden deck, ramp, and stairs (in its entirety).

e. Wooden restroom structure (in its entirety), approximately 10' x 10' x 12'.

f. Gutters and downspouts.

g. Concrete foundations to include concrete pad at bottom of ramp, concrete pad beneath the ramp, concrete slab at bottom of stairs, and concrete piers (assume 24 piers).

Note the following:

h. There is no lead-based or lead-containing paint, asbestos, or canec in the compost toilet structure. However, special handling and disposal may be needed for the compost chambers and appurtenances, batteries, and fluorescent lamps.

i. All components of the composting toilet structure must be removed from the site. Buried or partially buried concrete foundations discovered during the work, not currently visible, are not in the scope of work. However, if additional buried concrete or items are discovered that can be removed, the NPS may consider removal by contract modification.

j. Dispose of all debris at a permitted solid waste landfill.

k. Final cleanup shall be completed by the Contractor. Final site restoration work (to pre-development conditions) will be completed by the park.

2. Project will be constructed under a single prime contract. Refer also to Section 01 27 00 – Definition of Contract Line Items.

D. Project Mitigations: The Contractor shall comply with Section 01 11 40 – Work Restrictions & Resource Protection. In addition, the Contractor shall complete the following mitigations:

1. Mitigation #1: All vehicles and heavy equipment traveling on the historic trail (all points west of the trail access gate) must have rubber tires. No tracked equipment will be allowed on the historic trail. Tracked equipment with road pads may be allowed if preventing damage to trail surface can be assured. Submit a RFI if proposing tracked equipment with road pads.

2. Mitigation #2: Dump trucks are limited to 14,000 lbs. maximum gross weight and must not exceed 150-inch wheelbase length, 80-inches wheelbase width, and 96-inches total width.

3. Mitigation #3: Dual wheeled rear axle trucks limited to 14,000 lbs. maximum weight. Single wheeled rear axle trucks will not be permitted.

4. Mitigation #4: Excavators are limited to 92-inches width and 20,000 lbs. operating weight. Excavators must be equipped with rubber grouser pads (i.e. road pads).

5. Mitigation #5: Backhoes or loaders are limited to 18,000 lbs. maximum operating weight.

6. Mitigation #6: All vehicles and heavy equipment must stay within the boundaries of the trail as established by the loose rocks and logs placed along the trail's edge. If the Contractor requires additional area to navigate equipment, consult with the park POC. Do not move rock or log boundaries, as there may be sensitive natural and cultural resources nearby.

7. Mitigation #7: The limits of the work site at the compost toilet will be marked by cones / flagging prior to the start of work. All equipment shall remain within the marked area.

8. Mitigation #8: Heavy equipment used at the site to assist with dismantling, removing, and loading the compost toilet debris must remain at the site during the entire demolition period to minimize the heavy equipment traffic on the historic trail.

9. Mitigation #9: To protect against gouging, scraping, chipping, or marking the lava rock surfaces, all demolition debris must be grabbed and loaded directly from the structure or off dunnage used to keep materials off the ground, then loaded directly onto the truck. Equipment attachments shall not contact the ground. Placing or stockpiling of debris on the ground will not be permitted. Raking the ground surface by hand during final cleaning is permitted, if care is exercised.

10. Mitigation #10: The historic trail will generally remain open to visitor use / pedestrian foot traffic during demolition. Exercise caution when encountering visitors and staff on the trail. The park may erect barriers and signs to direct visitor foot-traffic away from the Work.

11. Mitigation #11: Rubber mats may be required if there's indication that equipment and vehicles are causing damage to the natural lava rock surface along the historic trail. Mat usage will be monitored by the park POC.

12. Mitigation #12: Equipment and vehicles may only turn around at the compost toilet site. Equipment and vehicles will not be permitted to turn around along the historic trail.

13. Mitigation #13: The Contractor may use the Staging & Loading Area identified on GFD #2 – Park & Site Aerial Map to transfer smaller loads into larger transport equipment, if necessary. Materials may be dumped from smaller trucks to the ground at this Staging & Loading Area to facilitate transfer into larger trucks or roll-off containers. Dumping materials onto the ground will only be permitted at this site. The park POC will monitor site activities.

1.3 WORK PHASES / SEQUENCE

A. Work Phases: The Work will be completed in one (1) single work phase.

1.4 WORK UNDER OTHER CONTRACTS

A. General: Cooperate with separate contractors so that all contracts may be carried out smoothly without interfering with or delaying Work under this or other contracts. If another contract is awarded that may have an impact on this contract, the Contractor will be promptly notified.

1.5 GOVERNMENT-FURNISHED ITEMS

A. General: The Government may furnish items such as materials, equipment, facilities, services, utilities, or housing for Contractor use on this contract. The government may furnish these items to lower the overall project costs, make use of existing item(s), or out of necessity at a remote location. The items offered below are at no additional cost to the Contractor.

B. Government-Furnished Materials: NONE.

C. Government-Furnished Equipment / Transportation: NONE.

D. Government-Furnished Facilities: The following facilities will be available to the Contractor for use on this contract. Refer also to Section 01 50 00 Temporary Facilities & Controls.

1. Restroom: The Contractor may use the porta-potties at Aiopio Beach site. The Contractor may also bring in porta-potties for Contractor use, but they must be located at the Staging & Loading Area identified in GFD #2 and they must be locked to prevent visitor use.
2. Field Office: NOT AVAILABLE.
3. Storage Space: NOT AVAILABLE.

E. Government-Furnished Services: The following services will be offered to the Contractor for use on this contract. Refer also to Section 01 50 00 Temporary Facilities & Controls.

1. Park staff will permit the Contractor to double padlock the trail entry gate for access.
2. Park staff will relocate rocks and logs that define the edge of the trail, if necessary, to permit vehicles / equipment to navigate the trail while also protecting resources. See PART 1.2.D.
3. Park staff will remove any miscellaneous janitorial or maintenance items from the unit.
4. Park staff will remove and relocate all dry stack rocks around the perimeter of the structure.
5. Park staff with mark the limits of contract use at the compost toilet site with cones.

F. Government-Furnished Utilities: The following utilities will be available to the Contractor for use on this contract. Refer also to Section 01 50 00 Temporary Facilities & Controls.

1. Potable Water: NOT AVAILABLE.
2. Non-Potable Water: NOT AVAILABLE.
3. Wastewater Disposal: NOT AVAILABLE.
4. Hydrotesting & Disinfection Water Disposal: NOT AVAILABLE.
5. Electrical Power: NOT AVAILABLE.

G. Government-Furnished Housing: NOT AVAILABLE ON THIS PROJECT.

1.6 GOVERNMENT-FURNISHED DOCUMENTS (GFD)

A. General: The Government may furnish reports or other documents for informational purposes to supplement the contract documents (labeled as GFD). In cases of conflict between a GFD and the drawings and specifications, the drawings and specifications will govern.

1. GFD #1 – Construction Photos (1993).
2. GFD #2 – Park & Site Aerial Map.
3. GFD #3 – Current Photos (2-18-26).

1.7 CONDUCT OF OPERATIONS

A. Park Regulations: The Contractor shall conduct their operations in conformance with the rules and regulations promulgated by the Secretary of the Interior for the National Park Service (NPS), and applicable park rules and regulations prescribed by the Park Superintendent. Law enforcement rangers will intervene if they perceive any unsafe or unlawful activity.

B. Work Hours: Regular work hours shall be limited to daylight hours between **6:00 a.m. to 4:00 p.m.** Monday through Friday, unless stated otherwise. No work shall be performed on weekends, state or federal holidays. Work outside regular hours requires advance approval from the Contracting Officer to ensure key NPS personnel are present in the event of an emergency.

C. Advertisement: No signs or advertisements shall be displayed on the construction site or within the park unless approved by the Contracting Officer.

1.8 CONTRACTOR USE OF THE SITE

A. Park Entry: Vehicles associated with the contract shall be waived the entrance fee upon entering in marked company vehicles or by providing the full names, vehicle type, and the license plate numbers of all employees entering in personal vehicles.

B. Site Access: The Contractor shall access the site as outlined in the contract documents. If the site access is not identified, arrange with the park Point of Contact (POC).

C. Project Area Limits: Limit construction operations to within the project area limits as outlined in the contract documents. Do not disturb areas outside of the project area limits. Areas outside the project area limits may have sensitive natural, cultural, or archaeological resources.

D. Storage of Materials: Confine storage of materials to the area(s) outlined in the contract documents. If no specific site is shown, assume storage of materials is allowed within the project area limits, or, arrange for an area to store materials with the park Point of Contact (POC). The Contractor may install portable storage container(s) for materials and tools if the Contractor restores damaged surfaces to pre-construction conditions. The Contractor will be responsible for the protection and security of all materials and tools stored at the jobsite.

E. Staging of Materials and Equipment: Confine staging of materials and equipment to the area(s) outlined in the contract documents. If no specific site is shown, assume staging of materials and equipment is allowed within the project area limits or arrange for an area with the park Point of Contact (POC). Staging of heavy equipment at the jobsite overnight is permitted if the equipment: 1) remains within the project area limits, 2) is checked for leaks and has the proper spill prevention measures (refer to PART 1.16.F), and 3) has adequate surface protection to prevent permanent track marks, spalls, cracks, ruts, depressions, and other damage (refer to PART 1.16.K). The Contractor is responsible for the protection and security of all materials and equipment staged at the jobsite.

F. Stockpiling: NOT PERMITTED.

G. Rock Removal: NOT APPLICABLE.

H. Field Office: NOT PERMITTED.

I. Property Damage: The Contractor is required to report missing, lost, stolen, or damaged property occurring within the park. This report must be made to a Law Enforcement Ranger or NPS Dispatch at the first available opportunity at: **(808) 985-6170**.

J. No Smoking Policy: Smoking is prohibited inside or outside within 25 feet of any buildings in the park. This applies to existing buildings and buildings under construction or renovation. Discarding of tobacco products or debris anywhere other than into designated tobacco receptacles is considered littering and subject to fines.

1.9 PUBLIC USE OF THE SITE

A. General: Cooperate with NPS and partner staff so that the Work may be carried out smoothly without interfering with or delaying the Work under this or other contracts.

B. Park Visitation: The project site (compost toilet area) will be CLOSED to park visitors during construction. However, the historic trail and surrounding trails will remain OPEN to park visitors. The Contractor shall conduct their operations to minimize the inconvenience to the public.

C. Park Events: The following park events are anticipated during the Work: NONE SCHEDULED.

1.10 GOVERNMENT USE OF THE SITE

A. General: Cooperate with NPS and partner staff so that the Work may be carried out smoothly without interfering with or delaying the Work under this or other contracts.

B. Hawaiian Blessing: Prior to field construction and/or immediately following all construction activities, the NPS may conduct a Hawaiian Blessing Ceremony to consecrate the site. A determination regarding the need for a blessing ceremony will be made by the Park Superintendent and discussed during the pre-construction meeting. If applicable, the Contractor may attend the blessing ceremony, but no compensation will be made for attendance.

1.11 OCCUPANCY REQUIREMENTS FOR BUILDINGS & AREAS

A. Government Occupancy: The Government will OCCUPY the building(s) or area(s) under construction until the construction phase is complete and final acceptance has been issued. Cooperate with the Government during construction activities to minimize conflicts. Perform the Work so as not to interfere with the Government's day-to-day operations. Maintain existing building ingress, egress, doorways, corridors, access walkways, access roads, and public space unless the Contractor obtains written permission from the Contracting Officer to close, partially close, or temporarily close specific areas.

B. Government Occupancy of Completed Areas: The Government reserves the right to occupy portions of buildings or areas and resume operations where the Work has been completed, provided such occupancy does not interfere with the completion of the remaining Work.

1. The Contractor shall ensure all Work is completed; all systems are operational; all testing, balancing, and inspections have been performed; and all final cleaning is completed prior to Government occupancy.
2. The Contracting Officer will prepare a Letter of Beneficial Use / Occupancy for the portion(s) of the building or areas to be re-occupied by the Government.
3. Upon Government occupancy, the Government will assume responsibility for the maintenance and custodial services for occupied portions of the building or areas.

1.12 CODES

A. General: The Contractor shall complete all Work in accordance with the latest versions of applicable federal, state, and local codes, standards, and regulations. Per Policy Memorandum 23-01 approved on May 9, 2023, the National Park Services (NPS) has adopted the International Code Council's (ICC) suite of codes and standards effective January 1, 2024. Additionally, the latest NFPA 70 (National Electric Code) is also adopted effective January 1, 2024. All work shall comply with the ICC suite of codes and standards and NFPA 70, where applicable. Additional codes, standards, and regulations may also apply. In the event of a conflict between codes, standards, regulations, and the contract documents, submit a Request for Information (RFI) with code references / citations to the Contracting Officer for a determination.

1.13 PERMITS

A. General: The Contractor shall comply with all permit conditions, whether they are from permits furnished by the government (PART 1.13.D) or permits obtained as part of this contract (PART 1.13.E). Identify the start dates and durations to obtain all permits in the construction schedule. Note: A general building permit is not required for work on NPS land; however, the Contractor must still comply with all state and local building code provisions.

B. Hot Work Permit: Hot work is defined as work activities (such as welding, cutting, blazing, and related work) that can be a source of ignition when flammable materials are present. All hot work operations shall be conducted in accordance with the procedures contained in RM-58, NPS policy on Hot Work Permits (see Appendix 35.8), and 29 CFR 1910.252(a). If the project requires any activities considered "hot work," submit a NPS Hot Work Permit (Form HW-1) application to the Contracting Officer at least 48 hours prior to the scheduled hot work. The NPS will then review and complete Form HW-1 and return a copy to the Contractor with the required conditions or precautions. No hot work shall occur without a completed and signed Form HW-1 and all the required precautions in place. See attached Form HW-1.

C. Confined Space Entry Permit: Where applicable, the Contractor shall adhere to, and implement, the permit-required confined space requirements of the Authority Having jurisdiction. Before each entry into a permit-required confined space, a permit must be completed, hazards must be assessed and controlled, proper ventilation and air-monitoring ensured, and personnel trained and equipped, with an attendant(s) stationed outside the space for constant communication and rescue readiness. A copy of the permit shall be furnished to the NPS for situational awareness.

D. Government-Furnished Permits: NONE.

E. Other Required Permits: NONE.

1.14 PROFESSIONAL SERVICES

A. General: Professional services include any business, department, or individual whose core output is a service or expertise rather than a manufactured product.

B. Shop Drawings: NOT REQUIRED.

C. Professional Land Surveyor (PLS): NOT REQUIRED.

D. Professional Engineer (P.E.): NOT REQUIRED.

1.15 UTILITY INTERUPTIONS – NOT APPLICABLE.

1.16 VEHICLES & HEAVY EQUIPMENT

A. General: The Contractor shall comply with the following work restrictions for vehicle and heavy equipment use.

B. Rules of the Road: Vehicles and heavy equipment shall comply with posted traffic regulations, including speed limits and double-yellow center lane markings. Vehicles and heavy equipment operating in national parks shall take every safe opportunity to use paved pullouts to allow faster-moving traffic to pass. Failure to comply with traffic regulations may result in a citation being issued to the driver.

C. Vehicle Parking: Confine parking of Contractor vehicles to the areas as outlined in the contract documents. If no specific Contractor parking area is shown, arrange with the park Point of Contact (POC). Vehicles are not permitted to park along park roads or in overlooks / pullouts. Vehicles are not permitted to park overnight in the park.

D. Driveways and Entrances: Keep driveways and entrances serving the premises clear and available to Government employees, vendor deliveries, and emergency vehicles at all times.

E. Vehicle Exhaust: Vehicles shall be properly maintained to ensure the exhaust fumes are within legal limits. The effects of excessive vehicle exhaust may be subject to enforcement of State and Federal laws regarding emissions as well as those regarding threatened and endangered species.

F. Spills: The Contractor shall be responsible for prevention of spills and/or cleanup efforts required in accordance with 40 CFR and all applicable state environmental quality laws regarding disposal and cleanup of hazardous / industrial wastes. The Contractor must immediately notify a Law Enforcement Ranger or NPS Dispatch of any spills at: **(808) 985-6170**.

G. DOT Compliance: Vehicles and heavy equipment shall be compliant with all DOT requirements including but not limited to drivers with appropriate license class, possessing a medical examiner card with license class as appropriate, carrying three (3) triangles or three (3) flares, carrying a mounted fire extinguisher, and possessing a valid DOT safety sticker, as applicable.

H. Hauling & Load Restrictions: All vehicle load, weight, and size limitations, as established by State law, apply to vehicles operated on the park road (36 CFR § 4.11). No loads heavier than the current load rating for park roads and bridges will be permitted. Load restrictions on park roads are identical to state load restrictions with such additional regulations as may be imposed by the Park Superintendent. Information regarding rules and regulations for vehicular traffic on park roads may be obtained from the Contracting Officer.

I. Oversized Vehicles: NOT PERMITTED.

J. Slow Vehicles: The Contractor is to notify the Contracting Officer of slow vehicles that may cause traffic delays or extended traffic lines.

K. Tracked Equipment: NOT PERMITTED. Equipment with roads pads may be permitted.

PART 2 – PRODUCTS (Not Used)

PART 3 – EXECUTION (Not Used)

END OF SECTION 01 11 00

Hot Work Permit
(Form HW-1)

Hot Work Permitting
Hot work shall only be performed in ***designated*** or ***permit-required*** areas. Before hot work operations begin in a non-designated location, a signed Hot Work Permit, issued by the Permit Authorizing Individual or his/her designee, shall be issued.

Designated Area
A designated area shall be a specific area designed for, or approved by the Permit Authorizing Individual or his/her designee for, such work. A designated area can be a maintenance shop or a detached outside location that is of noncombustible or fire-resistive construction, essentially free of combustible and flammable contents, and suitably segregated from adjacent areas. All designated areas shall have been inspected and approved by the Permit Authorizing Individual or his/her designee.

Permit-Required Area
A permit-required area shall be an area that is made fire safe and authorized by the issuance of a signed NPS Hot Work Permit. The Hot Work Permit shall be signed by Permit Authorizing Individual or his/her designee.

Non-permissible Areas
Hot work **shall not be allowed** in the following areas:

(a) In areas not authorized by the Permit Authorizing Individual or his/her designee
(b) In sprinklered buildings while such protection is impaired
(c) In the presence of explosive atmospheres (that is, where mixtures of flammable gases, vapors, liquids, or dusts with air exist)
(d) In explosive atmospheres that can develop inside unclean or improperly prepared drums, tanks, or other containers and equipment that have previously contained such materials
(e) In explosive atmospheres that can develop in areas with an accumulation of combustible dusts

GENERAL

Park:_____ District: _____ Building: _____ Floor:_____

Work to be done:_____

_____

Special precautions: _____

_____

PERSON PERFORMING WORK

Contractor Business Name:_____

Contractor Representative:_____

Contractor Contact Number:_____

NPS Employee's Name: _____

NPS Office:_____

NPS Employee's Contact Number: _____

CHECK

Work area and all adjacent areas to which sparks and heat might have spread (including floors above and below and on opposite side of wall(s) were inspected every 20 minutes for 1 hour after the work was completed and were found fire safe.

ATTENTION

Before approving any hot work permit, the Permit Authorizing Individual or his/her designee shall inspect the work area and confirm that the proper precautions have been taken to prevent fire, in accordance with the NPS Hot Work Permit Form (Form HW-1) and the NPS Hot Work Policy.

PRECAUTIONS

- ❑ Sprinklers in service
- ❑ Hot work equipment in good repair

WITHIN 35 FEET OF HOT WORK AREA

- ❑ Floors swept, clean of combustibles
- ❑ Combustible floors wetted down, covered w/ damp sand or other shields in place
- ❑ All wall and floor openings covered

WORK ON WALLS OR CEILINGS

- ❑ Combustibles moved away from opposite side of wall

WORK ON ENCLOSED EQUIPMENT (tanks, containers, ducts, dust collectors etc.)

- ❑ Equipment cleaned of all combustibles
- ❑ Containers purged of all flammable vapors

FIRE WATCH

- ❑ To be provided during and 60 minutes after operation
- ❑ Supplied with a fully charged and operable fire extinguisher
- ❑ Trained in use of equipment and activating fire alarm system

FINAL CHECK

- ❑ To be made every 20 minutes for 60 minutes after completion of any operation unless fire watch is provided

Is a fire watch required? Yes ☐ No ☐

The location where the work is to be done has been examined, necessary precautions taken, and permission is granted for this work.

Permit Issue Date:_____ Permit Expires:_____

Permit Authorizing Individual or Designee: _____

Signature:_____ Date:_____

SECTION 01 11 40 – WORK RESTRICTIONS & RESOURCE PROTECTION

PART 1 – GENERAL

1.1 SUMMARY

A. General: The NPS is the steward of unique natural, cultural, historical, archaeological, and other resources found within the national parks. The NPS is committed to protecting the resources found within the parks and the adjacent lands.

B. Section includes work restrictions for protecting resources in the national parks including, but not limited to, the following:

1. Preservation of Natural Features
2. Invasive Species Prevention
3. Invasive Species Inspections
4. Threatened & Endangered Species (T&E Species)
5. Archaeological Resources
6. Soundscape / Noise
7. Air Quality (Indoor & Outdoor)

PART 2 – PRODUCTS (Not Used)

PART 3 – EXECUTION

3.1 PRESERVATION OF NATURAL FEATURES

A. General: The Contractor shall comply with the following work restrictions:

1. Prevent damage to natural surroundings.
2. Provide temporary barriers to protect existing trees, tree roots, plants, grass areas and lawns that are directly impacted by construction operations. Temporary barriers should be free-standing orange traffic delineator posts with grabber / looper tops and plastic rails.
3. Do not fasten ropes, cables, or guys to existing trees, rock outcrops, or other natural features.
4. Do not remove, injure, or destroy existing trees, tree roots, or plants without approval by the Contracting Officer or unless it's explicitly required in the contract documents.
5. If a tree, tree branch, root, or mass of vegetation is preventing the Contractor from completing the work, notify the Contracting Officer immediately for a determination. Trees may need to be surveyed by park staff for bird nests prior to removal. Tree removal / trimming may be subject to additional restrictions if project is in Hawaiian hoary bat habitat.
6. Carefully supervise the excavation, grading, filling, equipment movement, and other construction operations near trees and tree branches to prevent damage.

3.2 INVASIVE SPECIES PREVENTION

A. General: The introduction of non-native species including invasive weeds and plants; invasive pests such coqui frogs and frog eggs, little fire ants (LFA), and insects including termites and coconut rhinoceros beetle (CRB); other vertebrae species such as rats, mice, and reptiles; and diseases such as Rapid ʻŌhiʻa Death (ROD) spread through contaminated soil can threaten the park's rare and endangered plants and animals or can create new populations of non-native species not traditionally found in the park. Ensure all vehicles, equipment, machinery, cutting

tools, base yards, staging areas, materials, material packaging, material deliveries, material storage, and personal protective equipment (PPE) are clean and free of invasive weeds and plants, invasive pests, and ROD spread through soil.

B. Vehicles, Equipment, & Machinery: In order to prevent the spread of invasive species, the Contractor shall comply with the following:

1. Vehicles, equipment, and machinery must be thoroughly pressure washed and visibly free of dirt, mud, plant debris, and invasive pests. Areas of particular concern include bumpers, grills, hood compartments, under the battery, wheel wells, undercarriage, cabs and truck beds.
2. The interior and exterior of vehicles, equipment and machinery must be free of rubbish. The interiors of vehicles and the cabs of machinery must be vacuumed clean. Floor mats must be sanitized with a solution of >70% isopropyl alcohol.
3. All vehicles, equipment, and machinery shall park on pavement and not under trees (where possible).
4. All vehicles, equipment, and machinery will be subject to inspection by NPS personnel.
5. All vehicles, equipment, and machinery that do not pass inspection will be turned away. The vehicle will not be allowed into the park for at least 48 hours.
6. All vehicles, equipment, and machinery leaving the park for any reason must be cleaned prior to re-entry into the park and will require re-inspection.
7. All vehicles, equipment, or machinery being stored at a private residence are to be kept in a pest free area, preferably in a garage, on pavement, and not under trees. Such vehicles, equipment, or machinery will be subject to additional inspection.

C. Cutting Tools: In order to prevent the spread of invasive species (most notably, the spread of Rapid ʻŌhiʻa Death) the Contractor shall comply with the following:

1. Cutting tools including handsaws, machetes, chainsaws, and loppers must be sanitized to remove visible dirt, contaminants, and potential pathogens prior to entry into the park and when moving to a new project area. Tools must be sanitized using a solution of >70% isopropyl alcohol. One minute after sanitizing, you may apply an oil-based lubricant to chainsaw chains or other metallic parts to prevent corrosion. This applies to all cutting tools for all types of trees (including coconut trees).
2. All cutting tools will be subject to inspection by NPS personnel.
3. Cutting tools that do not pass inspection shall not be used until they pass inspection.

D. Contractor Base Yards, Staging Areas, and Project Areas: In order to prevent the spread of invasive species, the Contractor shall comply with the following:

1. Contractor base yards and staging areas, both inside and outside the park, shall be kept clean and free of invasive pests.
2. Base yards and staging areas may be inspected by NPS personnel for invasive pests.
3. Any invasive pests found at base yards or staging areas shall be removed immediately.
4. If new infestations or populations of invasive pests are detected in or near Contractor base yards, staging areas, or project areas, the NPS may dispatch personnel to conduct control measures. Work on the project may be temporarily delayed until the infestation or population no longer poses a thread of spreading (as determined by the NPS).

E. Materials, Packaging, Deliveries, and Storage: In order to prevent the spread of invasive species, the Contractor shall comply with the following:

1. Materials, packaging, deliveries, and storage containers shall be kept clean and free of invasive pests. This includes soil, aggregate, and rock material from quarries or the source location, as well as temporary facilities and best management practice (BMP) items employed to manage surface water drainage and erosion.
2. Materials, packaging, deliveries, and storage containers will be inspected by NPS personnel for invasive pests. This includes soil, aggregate, and rock material from quarries or the source location, as well as temporary facilities and best management practice (BMP) items employed to manage surface water drainage and erosion.
3. Any item that does not pass inspection will be turned away and not allowed into the park.
4. The pest control records from quarries, source locations, or Contractor base yards may be requested.
5. Fresh crushed aggregate is preferred (if readily available) over aggregate that has been stockpiled at a quarry for a lengthy period.

F. Personal Protective Equipment (PPE): In order to prevent the spread of invasive species, the Contractor shall comply with the following:

1. Before going into the field or the jobsite, visually inspect and clean all personal protective equipment (PPE) to include boots, clothes, hard hats, harnesses, belts, and equipment for dirt, mud, seeds, plant debris, and insects. Soles of shoes must be regularly sanitized using a solution of >70% isopropyl alcohol.

3.3 INVASIVE SPECIES INSPECTIONS

A. Inspections for Invasive Species: In order to prevent the spread of invasive species within the park and adjacent lands, NPS personnel from the park will perform inspections of vehicles, equipment, machinery, cutting tools, base yards, staging areas, materials, material packaging, material deliveries, material storage, and personal protective equipment (PPE). Please permit safe unfettered access to inspection sites or items being inspected for the NPS inspectors. Inspections for invasive species may include the following:

1. NPS inspectors will perform visual inspections for signs of invasive weeds and plants; invasive pests such coqui frogs and frog eggs, little fire ants (LFA), and insects including termites and coconut rhinoceros beetle (CRB); other vertebrae species such as rats, mice, and reptiles; and mud and dirt that may carry Rapid ʻŌhiʻa Death (ROD).
2. NPS inspectors will test vehicles, equipment, and machinery for little fire ants (LFA) by placing chopsticks baited with a dab of peanut butter for 30 minutes to 1 hour. About six (6) chopsticks (baits) will be used to test personal vehicles and trucks. Larger vehicles, equipment, and machinery may require up to 10-20 baits. Baits will be placed in the shade, inside the cab, engine compartment, and truck bed if applicable. Please note that baits are only good for detection and do not control ants. Baits will not be left in the vehicle for more than 1 hour as this may attract ants from beyond the area of concern.
3. NPS inspectors may employ the same method of testing (as outlined above in G.2) on materials, material packaging, material deliveries, and material storage to include soil, aggregate, and rock material from quarries or source locations, temporary facilities and BMP items employed to manage surface water drainage and erosion.
4. Any LFA found will be collected, bagged, and labeled for identifications by NPS inspectors (or NPS partners) and the vehicle will not be allowed to enter the park until it is cleaned, sanitized, and re-tested following a minimum 48-hour resting period.
5. Infested vehicles will be sanitized following recommendations by the Hawaii Ant Lab (http://www.littlefireants.com) or other ant control expert and in accordance with all State

and Federal laws and baited with a granular or liquid insecticide bait prior to re-entry to the park. Control records will be required to confirm treatment. Treatment is the responsibility of the Contractor.

6. The park reserves the right to conduct additional tests for little fire ants (LFA) at any time during the project or require deployment of preventative granular or liquid insecticide baits.
7. Note that vehicles, equipment, machinery, and cutting tools previously used on the Big Island of Hawai'i will not be approved for entry into Haleakala National Park on Maui, and vice versa (items used on Maui will not be permitted into parks on the Big Island).

B. Invasive Species Disposal / Removal Recommendations: For current disposal / removal recommendations, refer to the following website links:

1. Little Fire Ants: http://www.littlefireants.com
2. Coqui Frogs: http://www.biisc.org
3. Rapid ōhiʻa death (ROD): https://cms.ctahr.hawaii.edu/rod
4. Coconut Rhinoceros Beetle (CRB): https://www.crbhawaii.org
5. All taxa: http://www.biisc.org

C. Inspection Scheduling / Protocol: If inspections for invasive species are required, the Contractor shall adhere to the following protocol:

1. The Contractor's construction schedule shall identify the date of project mobilization as well as the preferred date(s) for invasive species inspections in advance of mobilization.
2. The name and contact information for the NPS primary and backup inspectors will be identified at the time of the preconstruction meeting and documented in the meeting notes.
3. Formal requests for inspections shall be made by the Contractor directly to the NPS inspector(s) via the inspector's contact information.
4. Requests for the initial inspection(s) prior to mobilization shall be made at least three (3) days in advance of the inspection date.
5. Once the project is underway, inspections will be performed daily as needed (typically early morning) at the park's preferred inspection site for the duration of the contract.
6. Inspection requests outside the pre-established days and times will be performed at the discretion and availability of the inspectors.
7. Inspections shall occur at the park's preferred inspection sites identified below:
   a. At *Kaloko-Honokohau National Historical Park* – At the gravel pull-out area along Queen Kaahumanu Highway directly across from the entrance to the park visitor center (subject to change as this area may be further developed by the County).
8. Inspections of soil, aggregate, or rock materials may occur at the quarry or source location at the park's discretion.
9. If a re-inspection is required, the Contractor shall clean and sanitize the item thoroughly. A re-inspection for a rejected item cannot be scheduled for at least 48 hours.

3.4 THREATENED & ENDANGERED SPECIES (T&E SPECIES)

A. General: Threatened & Endangered Plant and Animal Species are protected by Federal law. Workers must obey all park regulations and drivers must obey all traffic laws and watch for animals on or alongside roads or within the project area. Contact NPS Dispatch at: **(808) 985-6170** immediately if an animal is hit or injured or will not move off the road.

B. General Mitigations: Within the project area, the following mitigation measures are required to minimize disturbance to T&E species:

1. The project area shall be cleaned-up at the end of each work shift so that tools, materials, debris, and trash are not left out in a manner that could be a hazard to T&E species.
2. Noise and vibrations from tools and equipment shall be kept to a minimum when working in the vicinity of a listed T&E species.
3. Hazmat spill prevention protocols shall be employed when using gas-powered equipment.
4. Tarps shall be used to contain all paint chips and building debris from exterior surfaces as these can be hazards to listed T&E species.
5. Ensure no standing water on tarps or other construction surfaces as it may be a breeding ground for mosquitoes which may carry Dengue fever, avian malaria / flu, and other diseases.
6. Ensure loose nails, screws, and fasteners do not fall on the ground when working on exterior surfaces as these can be a hazard to T&E species. If they do land on the ground, pick them up immediately and dispose of them properly.

3.5 ARCHAEOLOGICAL RESOURCES

A. General: Archaeological resources are physical evidence of past human activity, including evidence of the effects of that activity on the environment. Archaeological resources are found above and below ground and underwater. Known archeological resources will be marked and flagged by the park. Do not disrupt known archaeological resources or flagged areas during construction activities. If required in Section 01 11 00, PART 1.2.D, the Contractor shall erect temporary barriers around the archaeological resource to help ensure avoidance. Temporary barriers shall be free-standing orange traffic delineator posts with grabber / looper tops and plastic rails (or a comparable barrier that does not involve digging, but is an effective barrier). Submit a CM-16 with the proposed temporary barrier product for NPS approval.

The Contractor does not need to provide an Archaeological Monitor; however, the Contractor, or Contractor's designee, will observe all ground-disturbing activities during earthwork and other construction operations. If the Contractor discovers archaeological resources, the Contractor shall stop work, notify the Contracting Officer immediately, and relocate to a non-sensitive area. The park may have an Archaeological Monitor present at the jobsite who is authorized to stop work upon discovery of archaeological resources. Archaeological resources typically found in the park or at the project site will be discussed at the preconstruction meeting.

3.6 SOUNDSCAPE / NOISE

A. General: The Contractor shall minimize noise levels at the project site to protect the soundscape of the park and minimize noise to staff, visitors, neighbors, and habitat. Perform operations to minimize noise. Perform noise-producing work in less sensitive hours of the day or week or as directed by the Contracting Officer. Repetitive and/or intermittent, high-level noise is permitted only during daytime hours. If the Contractor exceeds the thresholds below, the Contractor may be required to stop work, temporarily relocate to a non-sensitive area, or adjust the construction means and methods at no additional expense to the Government.

1. Maximum permissible construction equipment noise at 50 feet:

EARTHMOVING	dB(A)	MATERIALS HANDLING	dB(A)
Front Loaders	75	Concrete Mixers	75
Backhoes	75	Concrete Pumps	75

Dozers	75	Cranes	75
Tractors	75	Derricks Impact	75
Scrapers	80	Pile Drivers	95
Graders	75	Jack Hammers	75
Trucks	75	Rock Drills	80
Pavers, Stationary	80	Pneumatic Tools	80
Pumps	75	Saws	75
Generators	75	Vibrators	75
Compressors	75		

2. Do not exceed the following dB(A) limitations at 50 feet:

TIME DURATION OF IMPACT NOISE	dB(A)
More than 12 minutes in any hour	70
More than 3 minutes in any hour	80

3.7 AIR QUALITY (INDOOR & OUTDOOR)

A. General: The Contractor shall minimize the negative impacts to indoor and outdoor air quality as a result of their operations. This may include:

1. Control of emissions from vehicles or heavy equipment.
2. Control of fumes, vapors, or gases from products or packaging.
3. Control of particulates and dust from indoor operations such as cutting and sanding.
4. Control of particulates and dust from outdoor operations.
5. Control of moisture during operations that may lead to damage, fumes, or mold.

B. Mitigations: The Contractor shall mitigate negative impacts to indoor and outdoor air quality as a result of their operations. This may include:

1. Ensure vehicles and heavy equipment do not idle when not in use.
2. Ensure proper ventilation and air movement of indoor spaces.
3. Install temporary mechanical ventilation where appropriate.
4. Ensure tools are equipped with the proper guards or particulate catchment devices.
5. Ensure particulates and debris are collected and disposed of on a regular basis.
6. Consider water trucks or temporary irrigation devises for dust control on unpaved surfaces.
7. Ensure products are properly dried or cured prior to advancing the work.
8. Ensure materials are stored in a dry location.
9. Ensure wet / damp materials are not installed or covered.

END OF SECTION 01 11 40

SECTION 01 27 00 – DEFINITION OF CONTRACT LINE ITEMS (CLIN)

PART 1 – GENERAL

1.1 SUMMARY

A. This section explains, in general, what is and is not included in a contract line item and defines where one item ends and another begins.

B. If no contract line item exists for a portion of work, include costs in a related item.

PART 2 – PRODUCTS (Not Used)

PART 3 – EXECUTION

3.1 LIST OF CONTRACT LINE ITEMS

A. Contract Line Item (CLIN) 00010

1. This item consists of Demolishing and Removing the Composting Toilet & Appurtenances at Aimakapa Fishpond site at Kaloko-Honokōhau National Historical Park, Hawai'i.
2. Payment will be made at the contract lump sum price.

END OF SECTION 01 27 00

SECTION 01 31 00 – PROJECT MANAGEMENT

PART 1 – GENERAL

1.1 SUMMARY

A. This section includes administrative provisions for coordinating construction operations on the Project including, but not limited to, the following:

1. Project Management
2. Requests for Information (RFI)
3. Project Meetings

1.2 SUBMITTALS

A. Project Manager: The Contractor shall submit the name, duties, and responsibilities of the Project Manager for approval per Section 01 33 23.

1.3 PROJECT MANAGEMENT

A. Project Administration: The Contractor shall appoint a Project Manager responsible for the overall project administration. Their responsibilities include but are not limited to the preparation of Division 01 Informational Submittals, Division 02-48 Action Submittals, Request for Information (RFI), participating in weekly calls, and Closeout Submittals. The Project Manager may also prepare Shop Drawing, Permit Applications, and Accessibility forms, where applicable. The Project Manager is typically a part-time position. The Project Manager is not required to be onsite. For small projects, the Job Superintendent may also serve as the Project Manager.

B. Construction Coordination: The Project Manager (or Onsite Job Superintendent) shall coordinate construction operations included in different drawing sheets and/or specification sections to ensure efficient and orderly installation of each part of the Work.

1. Schedule construction operations in the sequence required to obtain the best results where installation of one part of the Work depends on installation of other components.
2. Coordinate installation of different components with other Contractors to ensure maximum access for required maintenance, service, and repair.
3. Plan and coordinate construction operations to incorporate applicable permit requirements.
4. Coordinate scheduling of administrative procedures with other construction activities to avoid conflicts and ensure orderly progress of the Work.

1.4 REQUEST FOR INFORMATION (RFI)

A. General: Upon discovery of the need for additional information or an interpretation of the contract documents, the Contractor shall prepare and submit an RFI. The Contracting Officer will only respond to RFIs submitted by the prime Contractor. Coordinate and submit RFIs in a prompt manner to avoid delays in the work.

B. RFI Form: Include a detailed, legible description of the subject or item needing more information or interpretation on the NPS RFI Form with the information below. Submit the RFI form in MS Word format to allow the NPS to provide a response.

1. RFI number, numbered sequentially.
2. Date of RFI.
3. RFI subject.
4. Specification Section, section title, and related paragraphs, if applicable.
5. Drawing number and detail references, if applicable.
6. Description of the issue or question.
7. Photographs or sketches, if applicable.
8. Contractor's suggested resolution. State whether the suggested resolution results in "no additional time / cost" to the contract or if it will result in "additional time / cost." Do not provide a detailed price proposal unless requested to do so by a Contracting Officer.

A. RFI Response: The Contracting Officer, or authorized representative, will review each RFI, determine the action required, and respond accordingly.

1.5 PROJECT MEETINGS

A. Preconstruction Meeting: Before the start of construction, the Contracting Officer will arrange for a preconstruction meeting (typically by MS Teams or teleconference). A meeting agenda will be forwarded to the group prior to the meeting. During the meeting, the agenda will be updated by the Contracting Officer or designee and distributed to the group as the meeting minutes.

B. Progress Meetings: The NPS may schedule periodic meetings to discuss the progress of the Work with the Contractor, subcontractor(s), and key NPS staff. The need for and frequency of these meetings with be discussed at the preconstruction meeting. Progress meetings are typically held once per week via teleconference and last no more than 30 minutes. These weekly meetings are mainly to discuss progress for team situational awareness. Meeting minutes are not required.

PART 2 – PRODUCTS (Not Used)

PART 3 – EXECUTION (Not Used)

END OF SECTION 01 31 00

Request for Information (RFI) Form

National Park Service (NPS)

RFI Number:	
Project / Park:	
Contract Number:	
Date:	
To:	
From:	
Subject:	
Response By (Date):	
Please provide the following information or clarification:	
Date of NPS Response:	
NPS Response:	

SECTION 01 32 16 – CONSTRUCTION SCHEDULE

PART 1 – GENERAL

1.1 SUMMARY

A. This section consists of Construction Schedule requirements including:

1. Schedule of Values
2. Construction Baseline Schedule
3. Construction Schedule Updates
4. Look-Ahead Schedule

B. Purpose: The construction schedule ensures adequate planning, coordination, scheduling, and reporting during the execution of the Work by the Contractor. The construction schedule will assist the NPS and the Contractor in monitoring the progress of the work, evaluating the proposed changes, and processing the Contractor's progress payments.

1.2 DEFINITIONS

A. Schedule of Values (SOV): A document that helps define the payment process on contracts. The SOV allocates the entire awarded contract sum to various portions or activities of the Contractor's work. The value for each portion of work in the SOV shall generally coincide with the value(s) outlined in the accepted price proposal (where applicable).

B. Activity: A discrete part of a project identified for planning, scheduling, monitoring, and controlling the construction project. Activities included in a construction schedule consume time and resources. Critical activities are activities on the critical path. They start and finish on the planned start and finish times. Predecessor activities are activities that precede another activity in the schedule network. Successor activities are activities that follow another activity in the schedule network.

C. Critical Path: Longest connected chain of interdependent activities through the schedule network that establishes the minimum overall project duration and contains no float.

D. Float: Measure of leeway in starting and completing an activity.

1.3 SUBMITTALS

A. Schedule of Values (SOV): Submit a schedule of values (SOV) with a breakdown of all major work activities for which progress payments will be requested. The SOV should identify the park, project title, contract number, and Contractor name. In addition, the SOV must also include the following columns (at a minimum): Item #, Activity Description, Total Contract Value ($), Previous Pay Applications ($), Work this Period ($), % Complete (%), and Balance to Complete ($). The SOV must also have a total value for all ($) columns.

Ensure each portion of work or activity is assigned to the appropriate Contract Line Item (CLIN), Bid Option, or Contract Modification. Ensure an updated SOV is submitted with each invoice.

Ensure the SOV is updated with each contract modification. Failure to submit an accurate SOV reflecting the work completed at the time of invoice submission may delay invoice approval.

B. Construction Baseline Schedule: Submit a construction baseline schedule with all major work activities. At a minimum, the schedule must have the following information:

- Milestone: Contract Award (actual date)
- Activity: Permit Applications & Approvals, if applicable
- Activity: Division 01 Plan Preparation & Review
- Milestone: Preconstruction Meeting & Notice to Proceed (anticipated)
- Activity: Material Submittal Preparation & Review
- Activity: Material Purchasing & Delivery
- Activity: Initial Invasive Species Inspections & Field Mobilization
- Activities: All Major Work Activities (with start and end dates) with critical path identified
- All Federal and State Holidays.
- Activities: Testing and Service Interruptions
- Milestone: Pre-Final Inspection (at Substantial Completion)
- Activity: Punchlist Completion (within 30 days after Substantial Completion)
- Milestone: Final Inspection (within 30 days after Substantial Completion)
- Activity: Field Demobilization (after all field work is complete and accepted)
- Activity: Preparation of Final Closeout Documents
- Milestone: End Contract Period of Performance

MS Project is the preferred computer software for developing a construction schedule; however, the NPS will accept any format that relays the requested information and can be easily updated and understood. No work shall be performed or shown on weekends, state, and federal holidays. Ensure coordination of the work with subcontractors and vendors in the development of the construction schedule and schedule updates.

C. Construction Schedule Updates: Submit updates to the construction baseline schedule: 1) when requested, 2) when there is a change to the critical path, 3) when the previously approved schedule is no longer accurate, or 4) when there is a change to the contract such as a modification. Construction schedule updates must be approved in advance of the Work.

D. Look-Ahead Schedule (Optional): The Contractor may submit a 1-2 week look-ahead schedule at the beginning of each week to notify the NPS of planned work and potential disruption to park operations. The look-ahead schedule typically shows proposed work planned for each day of the week. The look-ahead schedule does not need to be approved, but it must be consistent with the approved schedule. If the look-ahead schedule is not consistent with the approved schedule, submit a construction schedule update for approval. The look-ahead schedule can be submitted in any format, but weekly / monthly calendar view seems to work well. Note that the look-ahead schedule is optional unless there are ground-disturbing activities being monitored by a park archaeologist; in which case the look-ahead schedule is required and must show all digging.

PART 2 – PRODUCTS (Not Used)

PART 3 – EXECUTION (Not Used)

END OF SECTION 01 32 16

SECTION 01 33 23 – SUBMITTAL PROCEDURES

PART 1 – GENERAL

1.1 SUMMARY

A. Section includes administrative and procedural requirements for submittals including:

1. Submittal Procedures
2. Submittals
3. Submittal Review

1.2 DEFINITIONS

A. Action Submittals: Written, graphic information, and physical samples that require the Government's approval.

B. Informational Submittals: Written information that does not require the Government's approval. Submittals may be rejected for not complying with the requirements.

C. Portable Document Format (PDF): An open standard file format licensed by Adobe Systems used for representing documents in a fixed-layout document format.

D. File Transfer Protocol (FTP): Communications protocol that enables transfer of files to and from another computer over a network and that serves as the basis for standard Internet protocols. An FTP site is a portion of a network located outside of network firewalls within which internal and external users are able to access the files.

1.3 SUBMITTAL PROCEDURES

A. General: Prepare and submit all submittals required by individual specification section, contract clause, or as requested in the drawings. The Contracting Officer reserves the right to require submittals in addition to those called for in individual specification sections. Review submittals for legibility, accuracy, completeness, and compliance with the contract documents prior to submittal to the Contracting Officer.

B. Submittal Format: All submittals shall be transmitted using the NPS CM-16 form via email (or approved FTP / Sharepoint Site). Each submittal item shall have its own CM-16 form. Complete all applicable fields of the CM-16 form; provide a submittal number not previously used; and attach all supporting documentation. Resubmittals shall retain the original submittal number followed by a subset, i.e. 03.1, 03.2, and so forth. The completed submittal may be submitted in PDF format (or optimized PDF format if file size is > 10 mb). Ensure all pages of the submittal are positioned upright (rotate page if needed), and all blank pages removed. No action will be taken on a submittal item unless it is accompanied by a properly formatted CM-16 form.

C. File Transfer: For attachments with file size < 10 mb, transmit file(s) via email. For attachments with file size > 10 mb, transmit file(s) via FTP or secure Sharepoint Site. Note that Dropbox and similar commercial file share services are not secure and not allowed on the NPS network.

1.4 SUBMITTALS

A. General: At a minimum, prepare and submit the following submittals for the project:

B. Submittal Log (Optional): The Contractor may submit and update a submittal log to help keep track of the progress of all action and informational submittals.

C. Contract Submittals: The following contract submittals shall be submitted within 7 days after contract award. Failure to submit these submittals may delay the notice to proceed. Note that the Contracting Officer (CO) will typically review and approve these submittals.

1. Satisfactory evidence of Liability Insurance Coverage and Workers Compensation for the Contractor and all Subcontractors (per contract clause).
2. Performance and Payment Bonds.

D. Division 01 Informational Submittals: The following Division 01 informational submittals shall be received within 14 calendar days after contract award and at least 7 calendar days prior to the preconstruction meeting. If any of these documents have not been received within 7 calendar days of the preconstruction meeting, the meeting may be cancelled and the Notice to Proceed (NTP) may be delayed. Work shall not commence until written NTP has been issued by the Contracting Officer. Submit each document separately with its own CM-16 form for acceptance. Refer to applicable specification sections for the required content of each submittal. Note that the Contracting Officer's Representative (COR) will typically review and accept these submittals.

1. Letter designating the Job Superintendent (comply with Section 01 73 40, PART 1.2.A).
2. Letter designating the Project Manager (comply with Section 01 31 00, PART 1.2.A).
3. List of Subcontractors / Written Statement & Acknowledgement (SF1413 Form) for all Subcontractors certifying compliance with applicable labor clauses (per contract clause).
4. Construction Schedule (comply with Section 01 32 16, PART 1.3.B).
5. A comprehensive Schedule of Values (comply with Section 01 32 16, PART 1.3.A).
6. Accident Prevention Plan (comply with Section 01 35 23, PART 1.2.A).
7. Quality Control Plan (comply with Section 01 40 00, PART 1.4.A).
8. Under-an-Acre Pollution Prevention Plan (UPPP) (comply with Section 01 57 23, PART 1.4).
9. Construction Waste Management Plan (comply with Section 01 74 19, PART 1.4.A).

E. Division 01-49 Action Submittals: All Division 01–49 action submittals shall be received and approved prior to construction start (i.e. field mobilization). If any of the required documents have not been received and approved prior to construction start, the start date could be delayed. Items shall not be purchased by the Contractor until written NTP has been issued by the Contracting Officer and the applicable Division 01-49 action submittals have been approved. Submit each submittal separately with its own CM-16 form for approval. Refer to applicable specification sections for the required content of each submittal. Note that the Contracting Officer's Representative (COR) will typically review and approve these submittals with assistance from key park personnel regarding colors, styles, or substitutions.

1. Product Data - Submit product cut sheets / data on all materials & products to be used on the project or as required in the Division 01-49 specification sections. Highlight the size, model, or type of each required or recommended product. Ensure all products meet the Buy American Act provisions and are commercially available in the United States.

2. Samples – If applicable, submit a physical sample of a product and/or an array of color choices for approval.

F. Shop Drawings – A shop drawing is a drawing or set of drawings produced by the Contractor, supplier, manufacturer, subcontractor, or fabricator. Shop drawings are typically required for prefabricated components or to illustrate the coordination work between trades. The shop drawing's primary emphasis is on a product or installation. Note that the Contracting Officer's Representative (COR) will typically review and approve these submittals.

1. Shop Drawings shall be developed in AutoCAD or similar drafting software.
2. Shop Drawings shall include details, dimensions, notational information and other data to ensure the Contractor has a complete understanding of the work.
3. Shop Drawings shall be submitted in DRAFT to the Contracting Officer along with a CM-16 form. Allow 7 calendar days for the drawings to be reviewed by the NPS. The Contractor shall correct any issues with the shop drawings as identified in the review comments and resubmit on a CM-16 form for final approval.
4. Update shop drawings during and after installation if changes are necessary, and submit the final as-built shop drawings as part of the Closeout Documents.

G. Permit Applications & Permit Approvals: All applicable permit applications and permit approvals shall be received prior to construction start (comply with Sections 011100, PART 1.13; Section 015723, PART 1.4; and Section 017340, PART 3.2.A). Note that the Contracting Officer's Representative (COR) will typically review and approve these submittals.

H. Submittals (During Construction):

1. Construction Schedule Updates (comply with Section 01 32 16).
2. Quality Control (QC) Daily Reports (comply with Section 01 40 00, PART 1.4.B).
3. Testing & Inspection Data, if applicable (comply with Section 01 40 00, PART 1.4.C).
4. Field Surveying Data, if applicable (comply with Section 01 73 40, PART 1.2.B).
5. Field Engineering Data, if applicable (comply with Section 01 73 40, PART 1.2.C).
6. Product Data for Newly Introduced Products (comply with Section 01 33 23, PART 1.4.D).

I. Closeout Submittals: All closeout submittals shall be received and accepted prior to contract final acceptance. If any of these documents have not been received within 30 days after issuance of the Letter of Substantial Completion, final acceptance may not be issued. Note that the Contracting Officer's Representative (COR) will typically review and approve these submittals.

1. Project Record Drawings (comply with Section 017700, PART 1.2.B).
2. Warranties (comply with Section 017700, PART 1.2.C)
3. Operation & Maintenance (O&M) Manual (comply with Section 017700, PART 1.2.D).
4. Project Photos (comply with Section 017700, PART 1.2.E)
5. Project Closeout Binders (comply with Section 017700, PART 1.2.F).

1.5 SUBMITTAL REVIEW

A. General: All submittals will be reviewed by the Contracting Officer, or authorized representative, to ensure compliance with the contract documents. Acceptance or approval of a Contractor's submittal does not relieve a Contractor from complying with the contract requirements.

B. Informational Submittals: The Contracting Officer, or authorized representative, will review the informational submittal or resubmittal and indicate the appropriate action on the CM-16 Form as follows:

1. ACCEPT: Acceptable with no corrections.
2. REJECT: Rejected as not in accordance with the contract or requiring major corrections, clarifications, or missing information. Contractor shall revise and resubmit the submittal.

C. Action Submittals: The Contracting Officer, or authorized representative, will review the action submittal or resubmittal and indicate the appropriate action on the CM-16 Form as follows:

1. APPROVED: Acceptable with no corrections.
2. APPROVED WITH NOTATIONS: Minor corrections or clarifications required. Comments are clear and no further review of resubmittal is required. Contractor shall address the review and comply with the comments when proceeding with the work.
3. DISAPPROVED – RESUBMIT: Rejected as not in accordance with the contract or requiring major corrections, clarifications, or missing information. Contractor shall revise and resubmit the submittal with changes clearly identified.

D. Brand Name or Equal: In accordance with Federal Acquisition Regulation Clause 52.211-6, items in this solicitation identified as "Brand Name or Equal," include salient characteristics required to satisfy the Government's needs. When proposing "equal" products, the Contractor [in addition to the requirements identified in Section L] shall submit evidence that "equal" products meet the salient physical, functional, or performance characteristics specified with their proposal for technical evaluation purposes. For each item proposed as an "approved equal" submit supporting data to include the following:

1. Name, address, and telephone number of the product vendor.
2. Manufacturer's literature / product cut sheets.
3. Comparison of the salient characteristics between the proposed item and the item specified.
4. Compliance with the Buy American Act / Commercially available in the United States.
5. Difference in cost between the proposed item and the item specified.

E. Partial or Incomplete Submittals: The Contracting Officer, or authorized representative, will review all submittals. If it appears the submittal is incomplete, it will be considered non-responsive and returned without further review.

F. Processing Time: Allow at least 7 calendar days for the Contracting Officer, or authorized representative, to review a submittal and 3 calendar days to review a resubmittal.

PART 2 – PRODUCTS

PART 3 – EXECUTION

END OF SECTION 01 33 23

CM-16 Transmittal Form

National Park Service (NPS)

Contract Information					
Park:	Contract No.	Project Title:	Date:	Contractor:	Submittal No:

Contractor Action									NPS Action				
									Action Submittals			Informational	
Item No.	Action Submittal	Informational Submittal	Specification Section	Specification PART	Drawing Sheet	Description of Item / Product (Attached Supporting Information)	Meets Buy American Act?	Alternative Product?	Approved	Approved with Notations	Disapproved / Resubmit	Accepted	Not Accepted / Resubmit

NPS Notations / Comments	Signatures	
	Contractor's Project Manager:	Date:
	NPS Contracting Officer's Representative (COR):	Date:

STATEMENT AND ACKNOWLEDGMENT

OMB Control Number: 9000-0066
Expiration Date: 4/30/2022

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PART I - STATEMENT OF PRIME CONTRACTOR

1. PRIME CONTRACT NUMBER	2. DATE SUBCONTRACT AWARDED	3. SUBCONTRACT NUMBER

4. PRIME CONTRACTOR			5. SUBCONTRACTOR		
a. NAME			a. NAME		
b. STREET ADDRESS			b. STREET ADDRESS		
c. CITY	d. STATE	e. ZIP CODE	c. CITY	d. STATE	e. ZIP CODE

6. The prime contract ☐ does, ☐ does not contain the clause entitled "Contract Work Hours and Safety Standards Act -- Overtime Compensation."

7. The prime contractor states that under the contract shown in Item 1, a subcontract was awarded on the date shown in Item 2 to the subcontractor identified in item 5 by the following firm:

a. NAME OF AWARDING FIRM

b. DESCRIPTION OF WORK BY SUBCONTRACTOR

8. PROJECT	9. LOCATION

10a. NAME OF PERSON SIGNING	11. BY *(Signature)*	12. DATE SIGNED
10b. TITLE OF PERSON SIGNING		

PART II - ACKNOWLEDGMENT OF SUBCONTRACTOR

13. The subcontractor acknowledges that the following clauses of the contract shown in Item 1 are included in this subcontract:

- Contract Work Hours and Safety Standards Act - Overtime Compensation (If included in prime contract see Block 6)
- Payrolls and Basic Records
- Withholding of Funds
- Disputes Concerning Labor Standards
- Compliance with Construction Wage Rate Requirements and Related Regulations
- Construction Wage Rate Requirements
- Apprentices and Trainees
- Compliance with Copeland Act Requirements
- Subcontracts (Labor Standards)
- Contract Termination - Debarment
- Certification of Eligibility

14. NAME(S) OF ANY INTERMEDIATE SUBCONTRACTORS, IF ANY

A		C	
B		D	

15a. NAME OF PERSON SIGNING	16. BY *(Signature)*	17. DATE SIGNED
15b. TITLE OF PERSON SIGNING		

SECTION 01 35 23 – SAFETY REQUIREMENTS

PART 1 – GENERAL

1.1 SUMMARY

A. This section includes establishing an effective accident prevention program and providing a safe working environment for Contractor personnel, NPS staff, and park visitors.

1.2 SUBMITTALS

A. Accident Prevention Plan (APP) – After contract award and before the Pre-Construction Meeting, submit a "site specific" accident prevention plan with the following information (at a minimum).

1. Name of the onsite manager responsible for implementing the accident prevention plan.
2. Emergency contact phone numbers (include NPS dispatch at: **808-985-6170**).
3. Map of the local area emergency medical facilities relative to the jobsite.
4. Contractor's general company safety plan & protocol.
5. Contractor's first aid and emergency medical procedures & accident reporting forms.
6. Completed activity hazard analysis (AHA) completed for each major work activity.

1.3 QUALITY ASSURANCE

A. General: Comply with the contract documents and contract clauses related to safety and health. In case of conflicts between Federal, State, and local safety and health requirements, the most stringent shall apply. Failure to comply with safety and health requirements may result in suspension of work. In the event of a perceived safety violation, NPS staff may stop work until the safety violation is addressed. In the event that NPS staff requests that Contractor personnel stop work due to a safety violation, contact the Contracting Officer immediately for a resolution.

B. Onsite Safety Manager: Designate an authorized representative responsible for the following work. The authorized representative responsible for safety may also perform other duties.

1. Implementing the accident prevention plan.
2. Conducting daily safety meetings.
3. Conducting safety inspections and reviews.
4. Compiling and reviewing product safety data sheets (SDS) with personnel.
5. Ensuring personnel are equipped with and wear proper personal protective equipment (PPE).
6. Ensuring personnel comply with safety and health requirements.
7. Investigation, reporting, and tracking accidents, injuries, or safety violations.

C. Qualifications of Employees: Ensure the following for all Contractor personnel:

1. Ensure personnel are physically able to perform their assigned duties in a safe manner.
2. Do not allow personnel whose ability or alertness is impaired because or prescription or illegal drug use, fatigue, illness, intoxication, or other conditions that may expose themselves or others to injury to perform work.
3. Ensure operators of vehicles, hoisting equipment, and hazardous equipment shall be able to understand signs, signals, operating instructions, and be fully capable of operating such equipment. Retain copies of operator licenses and certifications onsite.
4. Provide adequate training to personnel to ensure prompt and efficient application of first aid.

PART 2 – PRODUCTS

2.1 FIRST AID

A. General: Provide adequate first aid equipment for all contract employees for the hazards associated with the types of ongoing construction work at the site. NPS approval of first aid equipment is not required.

2.2 PERSONAL PROTECTIVE EQUIPMENT (PPE)

A. General: Provide personal protective equipment (PPE) that meets applicable OSHA and ANSI standards for all contract employees. NPS approval of PPE is not required.

PART 3 – EXECUTION

3.1 DAILY SAFETY INSPECTIONS

A. General: Conduct daily safety inspections and maintain safety reports.

3.2 EMERGENCY INSTRUCTIONS

A. General: Display telephone numbers and reporting instructions for ambulance, physician, hospital, fire department, and police in conspicuous locations at work site.

3.3 FIRE & LIFE SAFETY

A. General: Comply with requirements of the National Fire Protection Association (NFPA) 241 (Standards for Safeguarding Construction, Alteration, and Demolition Operations).

3.4 HAZARDOUS MATERIALS

A. Hazardous Materials: Explosive, flammable, poisonous, corrosive, oxidizing, irritating, or otherwise harmful substances that could cause death or injury.

B. Store hazardous materials in accordance with manufacturer's and OSHA Subpart D requirements. Display Material Safety Data Sheets (MSDS) in conspicuous locations at work site.

1. Immediately report spills of hazardous materials to NPS Dispatch at: **808-985-6170**.
2. Maintain a spill emergency response kit.
3. Train employees how to respond to a spill and use emergency response kit.

3.5 PROTECTIVE EQUIPMENT

A. General: Inspect personal protective equipment (PPE) daily and maintain in a serviceable condition. Clean, sanitize, and repair personal items as appropriate before issuing.

B. Hard Hats: A hard hat use area shall be designated by the Contractor, as applicable. Hard hats shall be worn by all personnel in hard hat use areas. It is a Contractor's responsibility to require persons working at or visiting the jobsite to always wear hard hats.

3.6 SAFETY MEETINGS

A. General: At a minimum, conduct weekly, if not daily, 15-minute "toolbox" safety meetings. These meetings shall be conducted by the Job Superintendent or a crew leader and be attended by all construction personnel at the worksite. Topics to coincide with work scheduled for the week. Document all safety meetings in the Quality Control (QC) Daily Report Form.

3.7 EMERGENCY MEDICAL & ACCIDENT REPORTING

A. Emergency Medical & Accident Reporting: In the event of an emergency / medical incident, the Contractor shall **Dial 911** as needed. The Contractor shall also contact NPS Dispatch at: **808-985-6170** for any medical emergency, traffic accident, or personal injury occurring within the Park. NPS Dispatch is called so that the entrance station will be prepared should any emergency vehicles need to enter the park and so that any available Emergency Medical Services personnel in the park might respond until such time as the ambulance arrives.

END OF SECTION 01 35 23

SECTION 01 40 00 – QUALITY REQUIREMENTS

PART 1 – GENERAL

1.1 SUMMARY

A. This section includes administrative and procedural requirements for quality assurance and quality control. The Contractor is responsible for all quality assurance and quality control to guard against defects and deficiencies of the work.

1.2 DEFINITIONS

A. Quality Assurance: Activities, actions, and procedures performed before and during execution of the work to guard against defects and deficiencies and to substantiate that the proposed construction will comply with the requirements.

B. Quality Control: Tests, inspections, procedures, and related actions during and after execution of the work to evaluate the actual products incorporated into the Work and to ensure that the completed construction complies with the requirements.

C. Product Testing: Tests and inspections performed by 1) a Nationally Recognized Testing Laboratory (NRTL), 2) a National Voluntary Laboratory Accreditation Program (NVLAP), 3) a testing agency qualified to conduct product testing, or 4) a Contractor qualified to conduct product testing to establish product performance and compliance with industry standards.

1.3 CONFLICTING REQUIREMENTS

A. Reference Standards: If compliance with two or more standards is specified, and those standards establish different or conflicting requirements, refer the conflicting requirements or uncertainties to the Contracting Officer for a determination before proceeding with the Work.

B. Minimum Quality Level: Quality level shown or specified shall be the minimum provided or performed. Actual installation may comply exactly with the minimum quality specified, or it may exceed minimum quality within reasonable limits. Refer all uncertainties to the Contracting Officer for a determination before proceeding with the Work.

1.4 SUBMITTALS

A. Quality Control Plan (QCP) – After contract award and before the Pre-Construction Meeting, submit a "site specific" quality control plan with the following information (at a minimum).

1. Name of the onsite manager responsible for implementing the plan and ensuring quality.
2. Organizational flow chart showing key contractor / subcontractor personnel.
3. Qualifications of key staff with applicable training certificates and licenses.
4. Contractor communications and reporting procedures / forms (to also include the NPS daily report form, RFI form, and CM-16 form).
5. A list of project specific testing and inspection procedures at all phases of the work (i.e. preparatory, initial, follow-up) to ensure quality, with steps for correction of work / re-work.
6. Qualifications of laboratory, agency, or Contractor performing product testing.

B. Quality Control (QC) Daily Reports: Submit quality control daily reports documenting daily progress and the quality of work. The daily report shall be typed, legible, and complete and include representative and legible photos of that day's work. The daily report shall be submitted daily no later than the business day after the work was performed. The NPS prefers that the Contractor use the NPS daily report form. If the Contractor prefers to use their own form, it will be allowed if it contains all major sections / information from the NPS form. For days not worked due to inclement weather, indicate on the daily report.

C. Testing and Inspection Data / Reports: Submit all completed testing and inspection data / reports for approval prior to advancing the Work on subsequent phases. If a testing or inspection report indicates the Work does not meet the requirements, submit remedial actions for approval within one (1) calendar day from receiving the results, and do not advance the Work until this issue is resolved in writing.

1.5 QUALITY ASSURANCE

A. General: Comply with the contract documents and contract clauses related to quality. In cases of conflicts between Federal, State, and local quality requirements, the most stringent shall apply. Failure to comply with quality requirements may result in suspension of work.

B. Onsite Quality Manager: Designate an authorized representative responsible for the following work. The authorized representative responsible for quality may also perform other duties.

1. Implementing the quality control plan.
2. Conducting quality inspections and reviews.
3. Compiling and reviewing product testing and inspections with quality personnel.
4. Ensuring all personnel comply with quality requirements.
5. Completing and submitting QC Daily Reports in a timely manner.
6. Completing and submitting all other submittals in a timely manner.

1.6 QUALITY CONTROL

A. General: The Contractor is responsible for testing and inspections as identified in the contract documents. Test and inspect the work as needed to ensure that the quality of materials, workmanship, construction, finish, and functional performance comply with applicable specifications, drawings, permit requirements, and as required by the local Building Code.

PART 2 – PRODUCTS (Not Used)

PART 3 – EXECUTION

3.1 OFF-SITE CONTROL

A. General: Items fabricated off-site shall be inspected for quality control at place of fabrication.

3.2 ON-SITE CONTROL

A. Preparatory Phase: Prior to beginning each feature of the work:

1. Review submittal requirements with personnel directly responsible for quality assurance and quality control of the work.
2. Review applicable specification sections and drawings related to the featured work.
3. Ensure copies of referenced standards related to testing and inspections are available onsite.
4. Ensure provisions have been made for field control testing.
5. Examine work area to ensure preliminary work has been completed.
6. Verify field dimensions and advise the Contracting Officer of any uncertainties or discrepancies with the contract documents.
7. Ensure necessary equipment and materials are at the project site and they comply with the approved material submittals and shop drawings (if applicable).
8. Document preparatory phase activities in the Quality Control (QC) Daily Report.

B. Initial Phase: As soon as work begins:

1. Test and inspect representative portions of a particular feature of work for quality of workmanship. Document type and locations of all tests and inspections.
2. Review control testing procedures to ensure compliance with the contract requirements.
3. Document initial phase activities in the Quality Control (QC) Daily Report.

C. Follow-Up Phase: As work progresses:

1. Ensure compliance with contract requirements until completion and acceptance of work.

3.3 ENFORCEMENT

A. The Contractor shall stop work on any item or feature pending the satisfactory correction of the deficiency noted by the Contracting Officer.

3.4 REPAIR AND PROTECTION

A. General: Upon completion of field testing or sampling, repair damaged construction and restore substrates and finishes. Protect construction exposed by or for quality control activities.

END OF SECTION 01 40 00

Quality Control (QC) Daily Report Form

National Park Service (NPS)

Contract Information	
Project / Park:	
Contract Number:	
Prime Contractor:	
Subcontractor(s):	
Daily Reporting	
Date of Report:	
Report Submitted By:	
Weather & Conditions:	
Official Visitors:	
Vendor Deliveries:	
Testing & Inspections:	
Work Disruptions:	
Summary of Work Activities	
Urgent Items for Discussion:	

Personnel by Category	Prime	Subs	Total Hours	Equipment by Type	Hours Operating	Hours Idle	Total Hours

Attach representative photos of the daily work progress (2-4 photos per sheet). Label all photos.

SECTION 01 50 00 – TEMPORARY FACILITIES & CONTROLS

PART 1 – GENERAL

1.1 SUMMARY

A. This section includes requirements for temporary facilities & controls.

1.2 QUALITY ASSURANCE / REGULATORY

A. General: Comply with the latest edition of applicable codes, regulations, and standards when installing temporary facilities & controls.

B. Temporary Water & Wastewater Services: Comply with:

1. Hawaii: State of Hawaii, Department of Health (DOH), Hawaii Administrative Rules (HAR).
2. Pacific Island Territories (Guam, Saipan, American Samoa): EPA Region 9.

C. Temporary Potable Water Services: All materials in contact with potable water must be NSF/ANSI-61 certified.

D. Hydrotesting & Disinfection Water: For hydrotesting and disinfection of potable water systems, comply with applicable sections from the American Water Works Association (AWWA) Standards as well as the Authority Having Jurisdiction (AHJ) regarding pollution prevention.

E. Temporary Erosion and Sediment Control: Refer to Section 01 57 23.

F. Temporary Electrical Service: Install service to comply with the International Electric Code.

G. Temporary Fire Protection Services: Install service to comply with the National Fire Protection Association (NFPA) Code.

H. Telecommunications: Install service to comply with regulations from the local service provider.

I. Pedestrian Access Routes: Install temporary routes to comply with the Architectural Barriers Act Accessibility Standards (ABAAS) if the affected pedestrian access route is currently accessible.

J. Temporary Traffic Control Devices: Install temporary traffic control devices to comply with the Manual on Uniform Traffic Control Devices (MUTCD).

1.3 SUBMITTALS

A. Specified / Proposed Products: All products specified or proposed by the Contractor for use as temporary facilities & controls shall be submitted for approval per Section 01 33 23.

PART 2 – PRODUCTS

2.1 TEMPORARY MATERIALS

A. General: Temporary materials may be new or used but they must be adequate for the usage; they must not create a unsafe conditions; and they must not violate the requirements of applicable codes, regulations, and standards. Submit temporary materials for approval per Section 01 33 22.

B. Temporary Utilities (Potable Water, Non-Potable Water, Fire Protection, Wastewater, Electrical Power, HVAC, Security, Alarms, Notifications, Internet and Telecommunications): Varies depending on utility type. Comply with PART 1.2 Quality Assurance / Regulatory. Refer also to Divisions 03-48, where applicable.

C. Telecommunications: Varies depending on local service provider.

D. Temporary Erosion and Sediment Control Devices: Refer to Section 01 57 23.

E. Temporary Safety Barrier Fence: Orange plastic fence, 4-feet height minimum, secured to self-supporting posts or steel posts driven into the ground no greater than 6-feet apart. If posts are driven into the ground, comply with Section 01 11 40, PART 3.4 (Archaeological Resources).

F. Temporary Barrier Tape: Yellow tape imprinted with "CAUTION: CONSTRUCTION AREA," manufactured by Reef Industries, Inc. Houston, Texas, or approved equal.

G. Temporary Site Enclosure Fence: Chain link, galvanized steel, 6-feet height minimum, secured to top and bottom rails and self-supporting posts with concrete bases.

H. Temporary Barrier or Partition: Plywood secured to lumber with nails, screws, or fasteners.

I. Temporary Traffic Control Devices: Varies depending on project scope and site. Comply with PART 1.2 Quality Assurance / Regulatory.

J. Lumber and Plywood: Refer to Division 06.

K. Concrete: Refer to Division 03.

L. Asphaltic Concrete (AC) Pavement: Refer to Division 32.

2.2 TEMPORARY EQUIPMENT

A. General: Temporary equipment may be new or used but it must be adequate for the usage; it must not create an unsafe condition; and it must not violate the requirements of applicable codes, regulations, and standards. Submit temporary equipment for approval per Section 01 33 22.

B. Fire Extinguishers: Portable, UL rated, with class and extinguishing agent as required by locations and classes of fire exposures.

2.3 TEMPORARY FACILITIES

A. General: Temporary facilities may be new or used but they must be adequate for the usage; they must not create unsafe conditions; and they must not violate the requirements of applicable codes, regulations, and standards. Submit temporary materials for approval per Section 01 33 22.

B. Temporary Toilets: Sufficiently lighted, ventilated, weatherproof, ADA-accessible toilet facilities with sturdy enclosures, privacy locks, and anti-bacterial hand sanitizer.

2.4 TEMPORARY ITEMS (GOVERNMENT-FURNISHED)

A. General: Refer to Summary of Work Section 01 11 00, PART 1.5 for a list of government-furnished items.

PART 3 – EXECUTION

3.1 INSTALLATIONS

A. General: Install temporary facilities & controls as noted in the contract documents, per regulatory guidance, or as instructed by the Contracting Officer. During storm events or high wind warnings, ensure all temporary installations are removed or secured.

B. Temporary Utilities (Potable Water, Non-Potable Water, Fire Protection, Wastewater, Electrical Power, HVAC, Security, Alarms, Notifications, Internet and Telecommunications): Install temporary utility service in compliance with applicable codes, regulations, and standards.

C. Temporary Erosion and Sediment Control Devices: Refer to Section 01 57 23.

D. Temporary Toilets: Provide a sufficient number of toilets for Contractor personnel, NPS staff, and park visitors, as applicable. If toilets are to be used by NPS staff and/or park visitors, provide separate toilet facilities for men and women. The Contractor shall pump the toilets frequently and keep the toilets clean so as not to attract insects or animals.

E. Temporary Field Offices: Establishment of a construction camp within the park will not be permitted. The park will attempt to furnish the Contractor with indoor office space for up to two (2) personnel; however, if the park cannot accommodate the Contractor with office space, the Contractor will be allowed to set up a temporary field office within the project area limits.

F. Temporary Storage Space: The Contractor may install portable storage container(s) if the Contractor restores damaged surfaces to pre-construction conditions. The Contractor will be responsible for the protection and security of all materials and tools stored at the jobsite.

G. Temporary Safety Barriers: For controlled sites, the Contractor shall construct and maintain a safety barrier fence marked with barrier tape to discourage people from entering the project site. Conduct daily checks on safety barriers and adjust barriers as needed. The Contractor is responsible for safety and accident prevention at the jobsite.

H. Temporary Site Enclosures: For uncontrolled sites, the Contractor shall construct and maintain a site enclosure fence, barrier, or partition to prevent people and animals from entering the project site except by locked gates or doors. Conduct daily checks on enclosures and adjust enclosures as needed. The Contractor is responsible for safety and accident prevention at the jobsite.

I. Pedestrian Access Routes: Construct and maintain temporary pedestrian access routes as outlined in the contract documents while the primary pedestrian access routes are under construction.

J. Vehicle Traffic Access Routes: Construct and maintain temporary roads and paved areas as outlined in the contract documents while the primary vehicle access routes are under construction.

K. Temporary Traffic Controls: The Contractor shall erect and maintain barricades, danger signals, and warning signs in compliance with applicable codes and standards. The Contractor shall provide adequate traffic control, including flaggers on either side of any work performed in the road. Any worker on or near the road must wear highly visible, bright clothing.

L. Construction Waste Management: Refer to Section 01 74 19.

END OF SECTION 01 50 00

SECTION 01 57 23 – TEMPORARY STORMWATER POLLUTION PREVENTION

PART 1 – GENERAL

1.1 SUMMARY

A. This section includes requirements for temporary stormwater pollution prevention and implementing measures to prevent the discharge of pollutants during construction activities.

1.2 REGULATIONS

A. The Clean Water Act prohibits anybody from discharging "pollutants" through a "point source" into a "water of the United States" unless they have a NPDES permit. The permit will contain limits on what you can discharge, monitoring and reporting requirements, and other provisions to ensure that the discharge does not hurt water quality or people's health.

B. The National Park Service (NPS) standards and guidelines require that water quality be protected at all times to ensure compliance with the Organic Act.

1.3 DEFINITIONS

A. Pollutant - The term pollutant is defined very broadly in the Clean Water Act. It includes any type of industrial, municipal, and agricultural waste discharged into water. Some examples include dredged soil, solid waste, incinerator residue, sewage, garbage, sewage sludge, munitions, chemical wastes, biological materials, radioactive materials, heat, wrecked or discarded equipment, rock, sand, cellar dirt, and industrial, municipal, and agricultural waste.

B. Point Source – The term point source is also defined very broadly in the Clean Water Act. It means any discernible, confined and discrete conveyance, such as a pipe, ditch, channel, tunnel, conduit, discrete fissure, or container. It also includes vessels or other floating craft from which pollutants are or may be discharged.

C. National Pollution Discharge Elimination System (NPDES) – A permit program that addresses water pollution by regulating point sources that discharge pollutants to waters of the United States. Created in 1972 by the Clean Water Act, the NPDES permit program is authorized to state governments by the Environmental Protection Agency (EPA) to perform many permitting, administrative, and enforcement aspects of the program.

D. Under-Acre Pollution Prevention Plan (UPPP) - A stormwater management plan that is developed and implemented to protect waters of the United States from pollutants during construction activities that disturb less than one (1) acre of total land area.

E. Stormwater Pollution Prevention Plan (SWPPP) – A stormwater management plan that is developed and implemented to protect waters of the United States from pollutants during construction activities that disturb one (1) acre or more of total land area.

1.4 AUTHORIT(IES) HAVING JURISTICTION

A. General: Comply with the standards and regulations of the Authority Having Jurisdiction (AHJ).

B. Authority Having Jurisdiction: The following are the AHJ for the pacific island national parks:

1. Hawaii: State of Hawaii, Department of Health (DOH), Clean Water Branch (CWB). https://health.hawaii.gov/cwb/general-permits/

2. Pacific Island Territories (Guam, Saipan, American Samoa): EPA Region 9 https://www.epa.gov/npdes-permits

1.5 NPDES GENERAL PERMITS OVERVIEW (STATE OF HAWAII)

A. General Permits are NPDES permits issued by the State of Hawaii, Clean Water Branch for a specific type of activity or discharge. General permits can only cover the types of activities or discharges specified in that specific general permit. If a facility or project has multiple types of discharges, an applicant may separately request coverage under multiple general permits for their facility or project (e.g., the applicant may request coverage for construction storm water and dewatering discharges). If a discharge or activity does not have a general permit that covers the discharge, the applicant must apply for an individual NPDES permit.

B. List of NPDES General Permits – Below is a list of NPDES general permits in the State of Hawaii applicable to work in NPS units with a brief description of their authorized discharges:

1. Discharges of Storm Water Associated with Construction Activities - NPDES permit coverage is required for activities that disturb one (1) acre or more of total land area. Land disturbance includes, but is not limited to, clearing, grubbing, grading, excavation, demolition, uprooting of vegetation, equipment staging on grassy areas or bare ground, equipment staging on paved roadway (only if area is blocked off from public usage), storage areas, and roadway work that touches the base course.

2. Discharges of Hydrotesting Waters – NPDES permit coverage is required for the release or discharge of hydrotesting waters to State waters. “Hydrotesting Waters” means water used to test the integrity of a tank or pipeline, pipeline disinfection, and/or pipeline flushing.

3. Discharges Associated with Construction Activity Dewatering – NPDES permit coverage is required for discharges to State waters of construction activity dewatering effluent. “Dewatering Effluent” is any type of water (e.g. ground water, storm water, stream water, ocean water, etc.) pumped from a construction area.

4. Discharges of Treated Process Wastewater Associated with Well Drilling Activities – NPDES permit coverage is required for discharges to State waters of treated process wastewater associated with well drilling activities. Treated process wastewater includes well drilling slurries, lubricating fluids wastewaters, and well purge wastewaters.

1.6 SUBMITTALS / REQUIREMENTS

A. General: Complete and submit the applicable submittals or complete the applicable requirements after contract award and prior to contract Notice to Proceed (NTP).

B. Projects with No Land Disturbance (All Work is Indoors) – NO SUBMITTALS REQUIRED.

C. Projects with Land Disturbance of less than one (1) acre: Complete and submit the following submittals to NPS (only) for review and acceptance.

   1. Under-Acre Pollution Prevention Plan (UPPP). The NPS UPPP Template can be found at: https://www.nps.gov/dscw/precon_act113.htm

D. Projects with Land Disturbance of one (1) acre or more in the State of Hawaii with an existing and valid NPDES general permit (Refer to Section 1.5 above), complete the following:

   To be eligible for NPDES general permit coverage, an activity / discharge must be able to:

   1. Meet any eligibility requirements (such as restrictions / prohibitions on coverage);
   2. Comply with all terms / requirements of the specific general permit;
   3. Comply with any pre-request requirements in the specific general permit such as the creation and completion of any required pollution plans (e.g. Storm Water Pollution Prevention Plan as required by Appendix C).
   4. Comply with the standard general permit conditions contained in Hawaii Administrative Rules (HAR) Chapter 11-55 Appendix A; and
   5. Report any unpermitted / unauthorized discharges to the Clean Water Branch and complete compliance with any enforcement action as a result, prior to seeking general permit coverage.

   To request coverage under a general permit, the Contractor must complete / submit the following to the State of Hawaii, Department of Health (DOH), Clean Water Branch (CWB):

   1. Notice of Intent (NOI) to the CWB e-Permitting Portal, and;
   2. Other as requested by the CWB.

E. Projects with Land Disturbance of one (1) acre or more in the Pacific Island Territories (Guam, Saipan / Commonwealth of the Northern Marianas Islands, American Samoa), or, in the State of Hawaii (for an activity or discharge not covered by a NPDES general permit), secure a NPDES individual permit with the Authority Having Jurisdiction (AHJ). The NPS contract Period of Performance will be adjusted to reflect the additional time needed to secure a NPDES permit. A NPDES individual permit typically involves submittal of the following:

   1. Notice of Intent (NOI).
   2. NPDES Individual Permit Application.
   3. Storm Water Pollution Prevention Plan (SWPPP).
   4. Notice of Termination (NOT).

1.7 QUALITY ASSURANCE

A. General: Comply with the applicable pollution prevention plan and the requirements of the AHJ.

B. Onsite Manager: Designate an authorized representative responsible for pollution prevention including the duties outlined below. The authorized representative may perform other duties.

1. Implement the applicable pollution prevention plan.
2. Ensure all stormwater, erosion control, and pollution prevention devices and measures, aka Best Management Practices (BMP), comply with Work Restrictions Section 01 11 40.
3. Properly install BMP devices and measures.
4. Conduct daily checks on BMP devices and measures and adjust BMPs as needed.
5. Ensure all personnel comply with the applicable pollution prevention plan and are familiar with the BMP devices and measures.
6. Remove all BMP devices and measures after final inspection / acceptance.

PART 2 – PRODUCTS

2.1 BEST MANAGEMENT PRACTICES (BMP) DEVICES & MEASURES

A. General: Furnish and install the required stormwater, erosion control, and pollution prevention devices and measures, aka Best Management Practices (BMP), as outlined in the pollution prevention plan or as required by the AHJ. All devices shall comply with Section 01 11 40. Submit BMP devices for approval per Section 01 33 23.

PART 3 – EXECUTION

3.1 REGULATORY REQUIREMENTS

A. General: Comply with the requirements of the Authority Having Jurisdiction (AHJ) and associated permit conditions.

3.2 PROTECT PARK RESOURCES

A. General: Comply with the Work Restrictions Section 01 11 40 for all stormwater, erosion control, and pollution prevention BMP devices. If the recommended BMP devices or measures have the potential to damage the park's natural, cultural, historical, or archaeological resources, the NPS will suggest strategies to mitigate or prevent damage to these resources. The Contractor shall include these mitigation strategies in the applicable pollution prevention plan.

3.3 POLLUTION PREVENTION

A. General: The Contractor shall execute the following:

1. Implement the applicable pollution prevention plan.
2. Ensure all stormwater, erosion control, and pollution prevention devices and measures, aka Best Management Practices (BMP), comply with Work Restrictions Section 01 11 40.
3. Implement mitigation strategies to prevent resource damage from BMP devices or measures.
4. Properly install BMP devices and measures. The park's archaeological monitor may wish to be present for BMP installation involving ground disturbance.
5. Conduct daily checks on BMP devices and measures and adjust BMPs as needed, especially after storm events.

6. Conduct daily checks on BMP devices and measures to ensure compliance with Safety Requirements Section 01 35 23.
7. Ensure all personnel comply with the applicable pollution prevention plan and are familiar with the BMP devices and measures.
8. Ensure all construction operations remain within the Project Area Limits.
9. Complete all work within the dry season or dry periods when possible.
10. If a discharge occurs or if the project receives a written notice or order from a regulatory agency, the Contractor shall immediately notify the Contracting Officer and shall file a written report to the AHJ within 7 days of the discharge event, notice, or order. Corrective measures shall be implemented immediately following the discharge, notice, or order.
11. Properly dispose of any entrapped sediment within or behind BMP devices or measures.
12. Manage hazardous waste in accordance with Federal, State, and local regulations.
13. Remove all BMP devices and measures after final inspection.

END OF SECTION 01 57 23

SECTION 01 67 00 – PRODUCT REQUIREMENTS

PART 1 – GENERAL

1.1 SUMMARY

A. This section includes administrative, procedural, and regulatory requirements for the selection of products for use on the project to include product delivery, storage, handling, packaging; and manufacturer's standard warranties on products.

1.2 DEFINITIONS

A. Products: Items purchased for incorporating into the Work, whether purchased for the project or taken from previously purchased stock. The term "product" includes "material," "equipment," "system," and terms of similar intent.

B. Named Products: Items identified by manufacturer's product name, including make or model number or other designation shown or listed in manufacturer's published product literature.

C. New Products: Items that have not previously been incorporated into another project or facility.

D. Comparable Product: Product demonstrated and approved through the submittal process, or where indicated as a product substitution to have indicated qualities related to type, function, dimension, in-service performance, physical properties, appearance, and other salient characteristics that equal or exceed those of the specified or named product.

E. Chain-of-Custody: Process whereby a product is maintained under physical possession or control during its entire life cycle.

F. Government-Furnished Materials: Refer to Section 01 11 00, PART 1.5.

1.3 REGULATORY

A. Buy American Products: Comply with contract clause 52.225-1.

52.225-1 Buy American-Supplies | Acquisition.GOV

B. Environmentally Preferable Purchasing: Comply with the USEPA, Final Guidance on Environmentally Preferable Purchasing.

Final Guidance on Environmentally Preferable Purchasing | US EPA

1.4 SUBMITTALS

A. Specified Products: All products specified in the contract documents or as a result of the Request for Information (RFI) process shall be submitted for approval per Section 01 33 23.

B. Material Safety Data Sheets (MSDS): For each product required by OSHA to have MSDS, ensure MSDS are posted during the Work.

C. Installed Products: All approved products furnished and installed on the project shall be submitted per Section 01 77 00.

D. Manufacturer's Warranties: All manufacturer's warranties for products furnished and installed on the project shall be submitted per Section 01 77 00.

1.5 QUALITY ASSURANCE

A. Compatibility: If the Contractor is given the option of selecting between two or more products for use on the project, the product selected shall be the most compatible with the existing conditions or systems. Refer all conflicting requirements or uncertainties to the Contracting Officer for a determination before proceeding with the Work.

1.6 PRODUCT DELIVERY, HANDLING, AND STORAGE

A. General: Deliver, handle, and store products using means and methods that prevent damage, deterioration, loss, and theft during the entire chain-of-custody period.

B. Delivery and Handling:

1. Comply with manufacture's written instructions on delivery and handling of products.
2. Schedule delivery of products to minimize long-term storage at the project site.
3. Coordinate delivery with installation time to ensure minimum holding time for items that are flammable, hazardous, easily damaged, or vulnerable to deterioration, loss, or theft.
4. Comply with Section 01 11 40 for inspection of products for invasive species.
5. Deliver products to the project site in an undamaged condition; in the manufacturer's original sealed container or other packaging system; complete with labels and instructions for handling, storing, unpacking, protecting, and installing.
6. Inspect products upon delivery to ensure compliance with the contract documents. Ensure products are undamaged and properly protected.

C. Storage:

1. Comply with manufacture's written instructions on the storage of products.
2. Store products vulnerable to deterioration, loss, or theft in secure, weather tight enclosures above ground with ventilation adequate to prevent condensation.
3. Store products vulnerable to damage from insects and vermin in insect-proof enclosures.
4. Store cementitious products on protected and elevated platforms away from moisture.
5. Comply with manufacture's written instructions for temperature, humidity, ventilation, and weather-protection requirements for storage of products.
6. Store loose granular products in well-drained areas on solid surfaces to prevent mixing with foreign matter and debris.

1.7 PRODUCT PACKAGING

A. General: Minimize packaging as defined in ASTM D5834. Maximize recycling procedures as outlined in ASTM D5834. Comply with Section 01 74 19.

PART 2 – PRODUCTS

2.1 SPECIFIED PRODUCTS:

A. General: Furnish and install all products specified in the contract documents or as a result of the Request for Information (RFI) process. All products shall be new unless otherwise specified.

2.2 COMPARABLE PRODUCTS:

A. General: The Contracting Officer will consider a Contractor's request for comparable products if the following conditions are satisfied.

1. The comparable product does not require revisions to the contract documents.
2. The comparable product is similar or better in quality to the specified product.
3. The comparable product is compatible with other portions of the Work.
4. The comparable product meets the Buy American Act provisions.
5. The comparable product provides a manufacturer's warranty.
6. The comparable product is new.

2.3 GOVERNMENT-FURNISHED MATERIALS

A. General: Refer to Summary of Work Section 01 11 00, PART 1.5.

PART 3 – EXECUTION

3.1 INSTALLATION:

A. General: Install all products and materials per the contract documents and the manufacturer's recommendations. Refer all conflicting requirements or uncertainties to the Contracting Officer for a determination before proceeding with the Work.

3.2 PROTECTION:

A. General: Provide adequate coverings and accommodations as necessary to protect installed products and materials from damage by natural elements, traffic, and subsequent construction. Remove coverings when no longer needed.

END OF SECTION 01 67 00

SECTION 01 73 40 – EXECUTION

PART 1 – GENERAL

1.1 SUMMARY

A. This section includes general procedural requirements governing execution of the Work including:

1. Examination.
2. Coordination with Local Utility Service Providers.
3. Preparation.
4. Construction Layout and Documentation.
5. Field Engineering.
6. Installation.
7. Starting and Adjusting.
8. Protection of Installed Construction.
9. Correction of the Work.
10. Progress Cleaning.

1.2 SUBMITTALS

A. Onsite Job Superintendent: The Contractor shall submit the names, duties, and responsibilities of the primary and backup Job Superintendent for approval per Section 01 33 23.

B. Field Surveying Data: For field surveys conducted to confirm compliance with the contract documents, submit field surveying data per Section 01 33 23.

C. Field Engineering Data: For field engineering conducted to confirm compliance with the contract documents, submit field engineering data per Section 01 33 23.

1.3 QUALITY ASSURANCE

A. Onsite Job Superintendent: The Contractor shall appoint a full-time Job Superintendent responsible for the onsite project execution. The Job Superintendent shall always be present at the jobsite during the Work. The Job Superintendent shall also be responsible for completing and submitting Quality Control Daily Reports per Section 01 40 00. The Contractor may appoint a backup Job Superintendent to fill in for the primary Job Superintendent during emergencies or temporary offsite duties and responsibilities. The backup Job Superintendent is typically a crew leader who is otherwise working on, and familiar with, the project.

B. Professional Land Surveyor (PLS) Qualifications: If required in Section 01 11 00, PART 1.14.C, the Contractor shall hire a professional land surveyor legally qualified to practice in the jurisdiction where project is located for execution of applicable Work.

C. Professional Engineer (P.E.) Qualifications: If required in Section 01 11 00, PART 1.14.D, the Contractor shall hire a professional engineer legally qualified to practice in the jurisdiction where project is located for execution of all applicable Work.

PART 2 – PRODUCTS (Not Used)

PART 3 – EXECUTION

3.1 EXAMINATION:

A. Existing Conditions: Before beginning the Work, examine and verify that the existing conditions from the contract documents are correct.

B. Existing Utilities: Before beginning the sitework, examine and verify the existence and location of all utilities to be impacted by the Work (including Water, Fire Protection, Wastewater, Electrical Power, HVAC, Security, Alarms, Notifications, Internet and Telecommunications).

C. Existing Facilities: Before beginning any work to facilities, verify condition of substrates, components, and systems for dimensions, tolerances, and other conditions affecting performance.

D. Cutting & Patching: Before performing cutting and patching operations, examine surfaces to be cut and patched and conditions under which cutting and patching are to be performed.

E. Acceptance of Conditions: Proceed with the Work only after unsatisfactory conditions have been corrected. Proceeding with the Work indicates Contractor acceptance of existing conditions.

3.2 COORDINATION WITH LOCAL UTILITY PROVIDERS:

A. General: If the contract documents specify work to, or affecting, a utility that is owned and/or managed by a local utility service provider, contact the local utility service provider sufficiently in advance of the Work to arrange any necessary permits, notification, or coordination.

3.3 PREPARATION:

A. Field Measurements: Take field measurements as required to fit Work properly. Recheck measurements before installing each product. Where portions of the Work are indicated to fit to other construction, verify dimensions of other construction before fabrication. Coordinate fabrication schedule with construction progress to avoid delaying the Work.

B. Space Requirements: Verify space requirements and dimensions of items shown on the drawings.

C. Cutting & Patching: Protect in-place construction during cutting and patching to prevent damage. Provide protection from adverse weather conditions for portion of the project that might be exposed during cutting and patching operations.

D. Differing Site Conditions: Refer all conflicting requirements or uncertainties from differing site conditions to the Contracting Officer for a determination before proceeding with the Work.

3.4 CONSTRUCTION LAYOUT & DOCUMENTATION:

A. Verification: Verify layout information shown on drawings before proceeding with the Work. Refer all discrepancies to the Contracting Officer for a determination.

B. Construction Layout: Establish benchmarks and control points in less conspicuous locations without damaging resources. Spray paint markings are only allowed in areas that will be replaced. The park's archaeological monitor may wish to be present for any ground disturbance.

C. Construction Documentation: Accurately document the location / position of all installed Work and/or discovered features during the Work. Construction documentation shall occur daily to ensure accuracy of the information. Refer also to Section 01 77 00 Closeout Procedures.

3.5 INSTALLATION:

A. General: The Contractor is responsible for the correct installation of the Work.

B. Location: Locate Work and components of Work accurately in correct alignment and elevation.

1. Make vertical work plumb and make horizontal work level unless otherwise specified.
2. Where space is limited, install components to maximize space available for future operation, maintenance, and component replacement.
3. Conceal pipes, ducts, and wiring in finished areas, unless otherwise indicated.

C. Instructions: Comply with the manufacturer's written instructions for installing products.

D. Scheduling: Install products at the time, and under conditions, for the best possible results. Maintain conditions required for product performance until final acceptance.

E. Loading: Conduct construction operations so that no part of the Work is subjected to loading in excess of that expected during normal conditions of occupancy.

F. Tool & Equipment: Do not use tools and equipment that produce harmful noise or air quality.

G. Anchors & Fasteners: Provide anchors and fasteners as required to anchor each component securely in place.

H. Cutting & Patching: Employ skilled workers to perform cutting and patching. Cut using methods least likely to damage elements retained or adjoining construction. Patch as required to restore surfaces to original condition. Clean areas and spaces where cutting and patching was performed and remove all excess paint, mortar, oils, putty, and similar patching materials.

I. Joints: Make joints a uniform width. Where joint locations in exposed areas are not indicated, arrange joints for best visual effect. Fit exposed connections together to form hairline joints.

J. Hazardous Materials: Use products, cleaners, and installation materials not considered hazardous.

3.6 STARTING & ADJUSTING:

A. Starting: Start equipment and operating components to confirm proper operation. Remove malfunctioning units; troubleshoot if necessary; replace with new units; and retest.

B. Adjusting: Adjust operating components and equipment for proper operation.

C. Testing: Test each piece of equipment to verify proper operation. Test and adjust controls and safeties. Replace damaged and malfunctioning controls and equipment.

D. Manufacturer's Field Service: If components or equipment fail to operate correctly, employ a factory-authorized service representative to inspect, troubleshoot, start, adjust, test, and repair field-assembled components and equipment.

3.7 PROTECTION OF INSTALLED CONSTRUCTION:

A. Protection: Provide final protection and maintain conditions that ensure installed Work is without damage or deterioration at the time of final acceptance.

B. Instructions: Comply with the manufacturer's written instructions for temperature and relative humidity.

3.8 CORRECTION OF THE WORK:

A. Defects: Repair or remove and replace the defective construction. Restore damaged substrates and finishes.

B. Restorations: Restore permanent facilities used during construction to the specified condition.

C. Damaged Surfaces: Remove and replace the damaged surfaces exposed to view if surfaces cannot be repaired without visible evidence of repair.

D. Damaged Components: Repair components that do not operate properly. Remove and replace operating components that cannot be repaired.

E. Damaged Glass: Remove and replace chipped, scratched, and broken glass or reflective surfaces.

3.9 PROGRESS CLEANING:

A. General: Keep project site, work areas, and common areas clean and free from waste, debris, excess materials, tools and equipment, which can negatively impact project execution. Clean work areas multiple times daily. Dispose of waste properly and regularly.

END OF SECTION 01 73 40

SECTION 01 74 19 – CONSTRUCTION WASTE MANAGEMENT & DISPOSAL

PART 1 – GENERAL

1.1 SUMMARY

A. This section includes administrative and procedural requirements for managing, salvaging, recycling, and disposing waste and debris from demolition and construction.

1.2 DEFINITIONS

A. Demolition Waste: Building and site improvement materials resulting from demolition or selective demolition operations.

B. Construction Waste: Building and site improvement materials, packaging, and other solid waste resulting from construction, remodeling, renovation, or repair operations.

C. Green Waste: Vegetative and organic matter such as grass, sod, roots, branches, and trees resulting from grubbing, clearing, cutting, and trimming operations.

D. Garbage: Refuse and food scraps resulting from preparation, cooking, dispensing, and consumption of food.

E. Solid Waste: Garbage, sludge, or other solid discharged material (except hazardous waste) resulting from domestic, industrial, or commercial operations.

F. Debris: Nonhazardous waste generated during demolition or construction operations. Debris can also result from building materials and natural materials such as rock, sediment, trees, etc. dispersed on a landscape by natural processes such as floods, storms, typhoons, hurricanes, etc.

A. Hazardous Materials: Explosive, flammable, poisonous, corrosive, oxidizing, irritating, or otherwise harmful substances that could cause death or injury. Materials regulated as a hazardous material in accordance with 49 CFR 173 (Code of Federal Regulations), requires a Material Safety Data Sheet (MSDS) in accordance with 29 CFR 1910.1200, or which during end use, treatment, handling, storage, transportation or disposal meets, has components which meet, or have the potential to meet the definition of Hazardous Waste in accordance with 40 CFR 261.

G. Salvaging: Recovery of intact demolition or construction waste for subsequent processing in preparation for reuse, either on the subject project or a future project.

H. Recycling: Recovery of demolition or construction waste materials or components for subsequent processing in preparation for reuse, either on the subject project or a future project.

I. Disposal: Removal of demolition and construction waste, green waste, garbage, solid waste, and debris to an off-site landfill or waste hauling facility acceptable to the Authorities Having Jurisdiction.

1.3 PERFORMANCE REQUIREMENTS

A. General: The Contractor shall minimize the creation of waste from the project. Factors contributing to the waste stream include over packaging, improper storage, ordering errors, poor planning, breakage, mishandling, and contamination. Minimize waste disposal in landfills.

B. Hazardous Materials: If waste materials encountered during demolition or construction are found to contain lead, asbestos, polychlorinated biphenyls (PCBs) such as fluorescent lamp ballasts, or other harmful substances, they are to be handled and removed in accordance with local, state, and federal laws concerning hazardous waste.

1.4 SUBMITTALS

A. Construction Waste Management Plan – After contract award and before the Pre-Construction Meeting, submit a "site specific" construction waste management plan that addresses the onsite storage, handling, salvaging, recycling, and disposal of demolition waste, construction waste, green waste, garbage, solid waste, debris, and hazardous materials generated on the project, as applicable. If the Contractor proposes to salvage existing materials and reuse on the current project, the salvageable materials, and the proposed treatment to make them fit for reuse, must be outlined in the construction waste management plan for consideration. For disposal items, identify the landfill or waste hauling facility where the waste items will be disposed of.

1.5 QUALITY ASSURANCE

A. Onsite Waste Manager: Designate an authorized representative responsible for the following work. The authorized representative responsible for waste may also perform other duties.

1. Implement the construction waste management plan.
2. Ensure adequate onsite storage containers protected from the weather and animals.
3. Ensure personnel are keeping the jobsite clean at all times.
4. Ensure personnel regularly dispose of waste and debris.
5. Ensure onsite waste storage containers are regularly emptied at the waste hauling facility.
6. Ensure the proper handling of items is identified for salvaging and recycling.
7. Ensure personnel are familiar with the MSDS of hazardous materials.
8. Ensure the proper storage, handling, and disposal of hazardous waste.

PART 2 – PRODUCTS

2.1 ONSITE WASTE STORAGE CONTAINERS

A. General: Provide separate containers for the storage and handling of items to be salvaged, recycled, disposed of, and composted (green waste). Storage containers shall be protected from the weather and animals. Storage containers for solid waste shall not leak. Provide containers for the storage and handling of hazardous waste in accordance with the Authority Having Jurisdiction (AHJ). Storage containers shall be located near the project site to encourage use and for equipment access but preferably hidden from view of the park visitor where possible.

2.2 HAZARDOUS MATERIALS SPILL EMERGENCY RESPONSE KIT

B. General: Furnish and maintain a hazardous materials spill emergency response kit at the project site at all times for known or suspected hazardous materials. NPS approval of hazardous materials spill response kit is not required.

PART 3 – EXECUTION

3.1 TRAINING

A. General: Provide adequate training to contractors and subcontractor personnel, vendors, and suppliers on proper packaging and waste management procedures.

3.2 COORDINATION

A. General: Coordinate the salvaging, recycling, and disposal of waste with contractor and subcontractor personnel, product suppliers, and waste disposal vendors.

3.3 IMPLEMENTATION

A. General: Implement the waste management plan as outlined.

3.4 PACKAGING

A. General: Minimize packaging as defined in ASTM D5834.

3.5 DEMOLITION & CONSTRUCTION WASTE

A. General: Except for items identified to be salvaged, recycled, or otherwise reused, remove all demolition and construction waste materials, garbage, and solid waste from the project site and legally dispose to a landfill or waste hauling facility acceptable to the Authorities Having Jurisdiction. Do not burn waste on government property. Do not allow waste to accumulate at the project site. Dispose of waste in a manner that prevents spillage or tracking of waste and debris on government property or outside of government property.

3.6 SALVEGABLE OR RECYCLABLE ITEMS

A. General: For demolition or construction waste that can be reused, either on the subject project or a future project, salvage or recycle the items as outlined in the waste management plan.

3.7 GREEN WASTE

A. General: For green waste consisting of vegetative and organic matter generated from construction operations, without any deleterious content (causing harm or damage to the environment), the green waste may remain onsite under the following conditions:

1. Lawn clippings and sod may be spread out in designated areas as approved by the Contracting Officer if there are no negative impacts to park resources.
2. Trees, branches, and limbs may be spread out in designated areas as approved by the Contracting Officer if there are no negative impacts to park resources or wildland fire management.

3. At sites where scattering green waste is not a viable option due to the volume or density of the green waste, a chipper may be used to compact the green waste. The chips generated may then be disposed of in designated areas as approved by the Contracting Officer.
4. At sites where scattering green waste or using a chipper is not a viable or acceptable option, the green waste shall be removed and properly disposed of from the project site.
5. All storage, handling, and disposal of green waste shall comply with Section 01 11 40.

3.8 HAZARDOUS MATERIALS

A. General: Treat, handle, store, transport, and dispose of hazardous materials in accordance with manufacturer's and OSHA Subpart D requirements. Display Material Safety Data Sheets (MSDS) in conspicuous locations at work site.

1. Immediately report spills of hazardous materials to NPS Dispatch at: **808-985-6170**.
2. Maintain a spill emergency response kit.
3. Train employees how to respond to a spill and use emergency response kit.

END OF SECTION 01 74 19

SECTION 01 77 00 – CLOSEOUT PROCEDURES

PART 1 – GENERAL

1.1 SUMMARY

A. This section includes administrative and procedural requirements for closeout including:

1. Closeout Submittals
2. Closeout Inspections & Acceptance of Work
3. Demonstration & Training
4. Demobilization & Final Cleaning

1.2 CLOSEOUT SUBMITTALS

A. General – Submit final closeout submittals after project substantial completion. Contract final acceptance is contingent on timely submittal and NPS acceptance of final closeout submittals.

B. As-Built Drawings – During the execution of the project, maintain a full-sized (22" x 34") hard copy of the construction drawings and/or shop drawings at the jobsite with clearly marked changes including deletions, additions, and special instructions or notes. Mark the changes on a regular, if not daily, basis to ensure the as-built markups are current and thorough. Make the As-Built Drawings available to the Contracting Officer or authorized representative for review at any time during construction to confirm progress. Upon completion of all fieldwork, transpose the red-lined markups / notes from the hardcopy As-Built Drawings to an electronic PDF copy of the drawings. Submit the PDF copy of the As-Built Drawings to the COR for review and approval. Then, update the full-sized (22" x 34") hard copy of the As-Built Drawings, as needed, and deliver / mail to the onsite Point of Contact (POC).

C. Warranties - Submit all manufacturer's warranties for products furnished and installed on the project. These are usually found on the product cut sheets. In addition, submit a letter with a Contractor-issued warranty on all workmanship for a period of one (1) year starting from the "date of final acceptance." The Contractor-issued warranty on workmanship is covered under the contract terms; however, inclusion of this letter in the closeout documents will permit the park to track the warranty period. Submit all warranties in PDF format to the COR.

D. Operation & Maintenance (O&M) Manual: Submit an Operation & Maintenance (O&M) manual in PDF format to the COR with the following information:

1. Preventative Maintenance Schedule – Include a preventative maintenance schedule for all recommended work on all major products, components, systems, or facilities to maximize their lifespan. The preventative maintenance schedule is typically a one-page summary or table of all preventative maintenance recommended by the vendor or contractor. The preventative maintenance schedule shall include the item, the maintenance recommendation, and the frequency (i.e. every quarter, 5 years, etc.). The preventative maintenance schedule should be located on the first page of the O&M Manual for quick reference.

2. Product Information – Include all products approved and used on the project. Please ensure only approved products are submitted. Do not include products that were not approved. Referencing CM-16's that were submitted prior to the construction start is not acceptable.
3. Operating Instructions – Include operating instructions for all major equipment, components, systems, or facilities, where applicable.
4. Testing & Inspection Reports – Include any testing and inspection reports completed.

E. Project Photos – Submit clear, representative photos of the project BEFORE, DURING, and AFTER construction in MS Word or PDF format to the COR for review and approval. Photos shall be labeled with subject, location, and date. Photos shall not exceed four (4) photos to a page. Also submit individual photos in JPG format for potential use in completion reports and publications. Referencing photos attached to daily reports is not acceptable.

F. Project Closeout Binders – Upon approval of the submittals listed in PART 1.2 (B thru E above), submit two (2) white D-ring binders containing hard copies of the final approved closeout submittals. These binders shall include: As-Built Drawings (11x17), Warranties, Preventative Maintenance Schedule, Product Information, Operating Instructions, Testing & Inspection Reports, and Project Photos. Label the outside of each project closeout binder with the project title, contract number, contractor name, and completion month and year. Project Closeout Binders shall be delivered or mailed to the onsite POC. Final invoice will be approved after binders have been received by the park.

G. Accessibility Inspection Report: If the project requires compliance with ABAAS for accessibility under Section 01 11 00, PART 1.12.B, fill out applicable sections of the Accessibility Inspection Form to document compliance with the Architectural Barriers Act Accessibility Standards (ABBAS). Inspect the work at various stages of construction to ensure the finished product meets the contract requirements. Failure to comply with ABAAS may result in rework. Complete the Accessibility Inspection Report in PDF format and submit to the COR for review and approval. Include this Report in the Project Closeout Binder.

1.3 CLOSEOUT INSPECTIONS & ACCEPTANCE

A. Pre-Final Inspection & Substantial Completion:

1. When the project, or a designated portion of the project, is substantially complete, the Contractor shall request a pre-final inspection in writing (via email) at least seven (7) calendar days in advance of the inspection date. The Work will be considered substantially complete when all major work elements are complete, and all components are operable.
2. During the pre-final inspection, the Contractor and the NPS will develop a "punchlist" of remaining work or deficiencies to satisfy the contract requirements. The punchlist will be reviewed onsite with the Contractor to ensure all parties have a clear understanding of the remaining work. The basis for what may be included in a punchlist includes:
   a. Items required as outlined in the construction documents (i.e. plans and specifications).
   b. Items required as outlined from the responses to RFI questions.
   c. Mitigation of a potential hazard generated from the work performed.
   d. Correction of a workmanship issue (per industry standards, manufacturer's recommendations, or as outlined in Section 01 73 40 Execution).
   e. Items associated with final cleanup.

3. If the NPS confirms that the work is substantially complete at the time of the pre-final inspection, the Contracting Officer will issue a Letter of Substantial Completion with the punchlist of remaining work to be completed or corrected prior to final acceptance. The original contract period of performance will end and the Contractor will have thirty (30) calendar days to complete the punchlist, as weather permits.
4. If the NPS determines that the work is NOT substantially complete at the time of the pre-final inspection, the Contracting Officer will notify the Contractor in writing. The Contractor may request a new pre-final inspection; however, all re-inspection costs may be charged against the Contractor in accordance with the Inspection of Construction clause of the contract.
5. If all or a portion of the Work is determined to be substantially complete, and the Government wishes to occupy or use the area, the Contracting Officer may issue a Letter of Beneficial Use / Occupancy to the Contractor outlining the terms of occupancy.
6. If there are no field punchlist items identified during the pre-final inspection, and only administrative closeout submittals remain, the Contracting Officer may issue a Letter of Beneficial Use / Occupancy to the Contractor.

B. Final Inspection & Final Acceptance:

1. When all field punchlist items are completed, the Contractor shall request a final inspection in writing at least three (3) calendar days in advance of the inspection date. During the final inspection, the NPS will confirm punchlist completion. After all field punchlist items are completed, and all closeout submittals have been received and accepted, the Contracting Officer will issue a Letter of Final Acceptance.
2. If the Contractor fails to complete the field punchlist items and/or submit the closeout submittals in the allotted thirty (30) day timeframe, the Contracting Officer may either replace the work with an appropriate reduction in contract price or negotiate other considerations. In addition, re-inspection costs may be charged against the Contractor in accordance with the Inspection of Construction clause of the contract.
3. If there are no field punchlist items, a final inspection is not required.
4. Once the Letter of Final Acceptance is issued and the Contracting Officer receives the Release of Claims, the Contractor may then submit final invoice.

PART 2 – PRODUCTS (Not Used)

PART 3 – EXECUTION

3.1 LABEL SWITCHES & POST OPERATING INSTRUCTIONS

A. General: After completion of the work, label all switches and controls and post operating instructions, as applicable. All labels and posts shall be printed, clear, secure, and protected.

3.2 SPECIALTY TOOLS, SPARE PARTS, EXCESS MATERIALS

A. General: After completion of the work, deliver specialty tools required to operate new equipment, components, systems, or facilities to the onsite POC. If the Contractor wishes to transfer spare parts or excess materials to the park, and the park is amenable, the Contractor shall document the items to transferred prior to transfer to the park.

3.3 DEMONSTRATION & TRAINING

A. General: Provide onsite demonstration and training to NPS operators and personnel on the proper and safe operation of all new systems and components. This demonstration & training can occur at the time of the pre-final or final inspections, or it can be arranged as a separate event to accommodate either park personnel or the training vendors, if applicable. However, in either case the Contractor shall notify the NPS at least seven (7) days in advance of the proposed demonstration & training so the park can arrange for key or interested staff to attend.

3.4 REMOVAL OF TEMPORARY FACILITIES & CONTROLS

A. General: After completion of the work, remove all temporary facilities and controls such as portable toilets, surface protections, fencing, traffic and erosion / sediment control devices.

3.5 DEMOBILIATION

A. General: After completion of the work, remove all equipment and machinery from the site.

3.6 FINAL CLEANING

A. General: After completion of the work, clean all surfaces and remove all waste materials. Properly dispose of all waste and debris offsite. Dispose of all food refuse in proper containers so as not to attract wildlife, vermin, or pests.

END OF SECTION 01 77 00