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SECTION 01 74 19  
CONSTRUCTION WASTE MANAGEMENT

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PART 1 – GENERAL

1.01 SUMMARY

- A. This section specifies the requirements for the diversion of demolition (non-hazardous) and construction debris from landfill and submittal of the Waste Management Plan.
- B. Performance Requirement: Divert a **minimum of 65% of construction and demolition (non-hazardous) debris from landfill**. Diversion of 75%, or more, of the construction & demolition debris is the project goal.
- C. Performance Requirement for Excavated Soil and Land Clearing Debris: **100% of trees, stumps, rocks and associated vegetation and soils** resulting primarily from land clearing shall be reused or recycled.
- D. Performance Requirement for projects required to achieve LEED certification: Divert material as required to achieve credit points sought on project:
  - 1. Minimum of 65% with three material streams (1 point)
  - 2. Minimum of 75% with four material streams (2 points)

1.03 DEFINITIONS

- A. "Conversion Rate" means the rate set forth in the standardized Conversion Rate Table approved by the County of Alameda for use in estimating the weight of materials identified in the Waste Management Plan and Waste Management Table.
- B. "Divert" means to use material for any purpose other than disposal in a landfill or transfer facility.
- C. "Good faith" shall be as defined by law.
- D. "Hauler" means the entity who transports construction and demolition debris to either a landfill or a recycling service.
- E. "LEED" means Leadership in Energy and Environmental Design and is a rating system developed by the U.S. Green Building Council to identify, implement and measure sustainable design factors for buildings.
- F. "Material Stream" means the flow of materials coming from a job site into markets for building materials. A stream can be either: (1) a specific material category that is diverted in a specific way; or (2) a mixture of several material categories that are diverted in a specific way.
- G. "Recycling Service" means an off-site service that provides processing of material and diversion from landfill.

- H. “Recycle Where Directory” is an online database maintained by StopWaste.Org of approved recycling vendors that can be accessed at [www.StopWaste.Org](http://www.StopWaste.Org) or by calling 1-877-STOPWASTE (786-7927).
- I. “Waste Management Plan” means a waste management plan required under this contract that is used to track and report the disposal of all construction debris generated on this project.
- J. “WasteTracking.com powered by Green Halo Systems” is the web based system required for use in developing a waste management plan, uploading recycling data throughout the construction process and submitting the final report demonstrating the project compliance online. More information about WasteTracking.com powered by Green Halo Systems is available by visiting them online at [www.wastetracking.com](http://www.wastetracking.com) or calling (888) 525-1301.
- K. “Universal Waste” are hazardous wastes that are widely produced by households and many different types of businesses. Universal wastes include televisions, computers and other electronic devices as well as batteries, fluorescent lamps, mercury thermostats, and other mercury containing equipment, among others. Any unwanted item that falls within one of these waste streams can be handled, transported and recycled following the requirements set forth in the universal waste regulations (UWR) (Cal. Code Regs, tit. 22, div. 4.5, ch. 23).

1.04 QUALITY ASSURANCE

- A. The Contractor shall obtain all special permits and licenses and meet all special requirements for performance and completion of the work of this section.
- B. Regulatory requirements
  - 1. Approval of the Waste Management Plan and Waste Management Table using the WasteTracking.com powered by Green Halo Systems by the County’s Representative is required before beginning construction or demolition.
- C. Recycling service company qualifications – Submit certification for recycling services listed in the approved Waste Management Plan that accepted waste will be diverted from landfill. Certification shall be demonstrated in one of the following ways:
  - 1. Recycling service is listed in the Green Halo System as an approved recycler for Alameda County projects; or
  - 2. Recycling service is listed within Alameda County Waste Management Authority’s Recycle Where Directory of where to recycle construction and demolition debris materials, or equivalent database/listing at StopWaste.Org. A database of construction and demolition recyclers can be found at [www.StopWaste.Org](http://www.StopWaste.Org) or can be obtained by calling 1-877-STOPWASTE (786-7927); or.

3. If not listed as described in items 1 and 2 above, submit certification in writing from any recycling services that verifies accepted waste will be diverted from landfill.

1.05 SUBMITTALS

- A. Submit specified Waste Management Plan to indicate how waste will be diverted from landfills. Include procedures and schedule for debris disposal. Submittal shall be made using WasteTracking.com powered by Green Halo Systems using the following URL: [ACGSA.WasteTracking.com](http://ACGSA.WasteTracking.com). Submittal is required **within 7 calendar days after receipt of Notice to Proceed**; and
- B. Submit written documentation from recycling services that are not listed in the WasteTracking.com powered by Green Halo Systems or the Stopwaste.Org Recycle Where Directory identifying where the construction and demolition material is taken, what method or process is being used to recycle the material, and identifying applicable state and local permits held by the recycling service provider and recycling facility; and
- C. Submit completed Waste Management Plan to report on the means of disposal of waste generated from project at the following project milestones:
  1. **Fifty percent (50%) progress payment**; and
  2. **One hundred percent (100%) construction complete**. County approval of final Waste Management Plan is required before full release of retention.

1.06 WASTE MANAGEMENT PLAN

- A. Plan Development: Using the website [ACGSA.WasteTracking.com](http://ACGSA.WasteTracking.com) develop a plan for diverting the specified percentage of construction debris from landfill. The plan shall include the following:
  1. Submit **within 7-calendar days after receipt of Notice to Proceed**.
  2. Propose means and methods for collecting and separating each type of debris deemed reusable or recyclable.
  3. Identify the off-site recycling service and hauler of each designated debris item, who has agreed to accept and divert that item from landfill, in the proposed quantities anticipated. Schedule each item and list off-site recycling service and hauler company name, telephone number, address, and person contacted.
  4. Include a "good faith" estimate of each type of construction waste that would be generated if no diversion methods were implemented. Submit with calculations based upon weight or volume of each. The following items are subject to the "good faith" estimate and diversion requirement:
    - a. Asphalt & Concrete
    - b. Brick/Masonry/Tiles

- c. Building Materials (doors, windows, fixtures, etc.)
- d. Cardboard and other paper products
- e. Carpet/Carpet Padding/Foam
- f. Ceiling Tiles (acoustic)
- g. Drywall
- h. Electrical Components (light fixtures, cables, etc)
- i. Film Plastic & Expanded Foam blocks
- j. Landscape Debris (plant & tree trimmings)
- k. Mechanical Debris (ducts, controls, plumbing fixtures, etc)
- l. Scrap Metal
- m. Unpainted Wood and Pallets
- n. Other (painted wood & drywall, roofing, etc)
- o. Mixed C&D (defined as a mixture of three or more materials from construction or demolition sites that will be taken to a “qualified” facility for recycling.)
- p. Trash/garbage
- q. Universal Waste (may not be disposed of in landfill or comingled for recycling with other construction debris)

5. Construction waste quantities entered in volume will be converted automatically using the defined Conversion Rate approved by Alameda County that is integrated into WasteTracking.com powered by Green Halo Systems.

B. Plan Implementation

1. Contractor shall do all of the following:
  - a. Retain a copy of, and upload into WasteTracking.com powered by Green Halo Systems, all weight tickets, copies of receipts and invoices and any other documentation related to the reuse, recycling, and disposal of generated waste/debris from demolition and construction activities; and
  - b. Maintain a log of each load of each category item diverted from landfill. Log in separately debris sent to a Class III landfill and materials sent to recycling facilities.
    - 1) Include in log: type of load, load weight, name of hauling service, name of recycling service or landfill, and date accepted by recycling service or by landfill.
    - 2) County reserves the right to audit the log at any time. Contractor shall retain and provide to the County all weight tickets, copies of receipts and invoices and any other documentation related to the disposal or recycling of generated waste/debris from demolition and construction activities.
  - c. Units of measure: Use same units as stated in the approved plan "good faith" estimate of construction waste that would be generated if no remedial methods were implemented.

2. Material handling

- a. Separation facilities
    - 1) Designate a specific on site area or areas to facilitate separation of materials for potential reuse, salvage, recycling, and return.
    - 2) Keep waste bins and pile areas neat and clean. Clearly mark bins for each category of waste. Do not co-mingle non-recyclable waste with materials designated for reuse or recycling.
  - b. Environmental controls during handling, storage, or transport: Do not permit designated materials to become contaminated or to contaminate site or surrounding areas.
3. Training and coordination
- a. Provide access and training as needed to subcontractors to the online construction and demolition debris waste management tool Green Halo Systems for the purposes of input of waste management information.
  - b. Furnish copies of the Waste Management Plan to all on-site supervisors, each subcontractor, and the County.
  - c. Instruction: Provide on-site instruction of appropriate separation, handling, and recycling, salvage, reuse, and return methods to be used by all entities at the appropriate stages of the Project.
  - d. Meetings: Include construction waste management on the agenda of meetings. At a minimum, discuss waste management goals and issues at the following meetings:
    - 1) Pre-bid meetings.
    - 2) Pre-construction meeting.
    - 3) Regularly scheduled job-site meetings.

## **PART 2 - PRODUCTS**

### **2.01 MATERIALS, EQUIPMENT AND FACILITIES**

Furnish all materials, tools, equipment, devices, appurtenances, facilities, and services required for performing waste management of debris covered under this Section.

## **PART 3 - EXECUTION**

### **3.01 EXAMINATION AND PREPARATION**

- A. Set up and maintain in good standing a project account with WasteTracking.com powered by Green Halo Systems using the website [ACGSA.WasteTracking.com](http://ACGSA.WasteTracking.com) to be used exclusively for this project to develop a waste management plan, upload all reuse, recycling and waste disposal

data throughout the construction process, and submit the final online report demonstrating project compliance.

- B. Perform as required in the approved Waste Management Plan.

### 3.02 DISPOSAL OF DEBRIS

- A. Dispose of waste, trash and debris in a safe, acceptable manner, in accordance with applicable laws and ordinances and as prescribed by authorities having jurisdiction. **Burying of trash and debris on the site is strictly prohibited.**
- B. Remove demolished materials from site as work progresses. Remove debris from the site so that its presence will not delay the progress of the work.
- C. Debris shall be the property of the Contractor and shall be removed and disposed of in a legal manner off the County's property in accordance with the approved Waste Management Plan described herein. Location of recycling facility or landfill site and length of haul shall be the Contractor's responsibility.

**END OF DOCUMENT**