

### READ THIS FIRST

This Project Spec Document may need additional modifications to suit your project. It is recommended that you proofread each section, paying attention to any “Notes” boxes such as this one--you should remove these “Notes” sections as you go. Also, do a search for all bracket characters “ [ ] “ as they are used to show you areas containing options or project specific details (you can use Microsoft Word’s Find feature {Ctrl-F} to jump to an open bracket “ [ “ character quickly). Again, these bracket characters should be removed.

It is important that every paragraph be numbered to allow for easy referencing. If you use the document’s built in styles and formatting your outline should be fine (turn on the formatting toolbar by going to View > Toolbars > Formatting). Most paragraphs will use the style “Numbered Material” and can be promoted (Shift) or demoted (Shift-Tab).

You should not have to manually enter extra spaces, carriage returns or outline characters such as A, B, C, or 1.01, 1.02; the formatting will do this for you. The entire document is 11 pt. Arial. If you paste items in, you may need to reapply the “Numbered Material” format.

## PART 1 GENERAL

### 1.01 SUMMARY

- A. This section includes construction waste management requirements.

### 1.02 DEFINITIONS

- A. Co-mingled or Off-site Separation: Collecting all material types into a single bin or mixed collection system and separating the waste materials into recyclable material types at an off-site facility.
- B. Construction, Demolition and Land-Clearing (CDL) Waste: Includes all non-hazardous solid wastes resulting from construction, remodeling, alterations, repair, demolition, and land clearing. Includes material that is recycled, reused, salvaged or disposed as garbage. This also includes uncontaminated soils that are designated as geotechnically unsuitable or excess excavation.
- C. Hazardous/Dangerous Waste: As defined by Chapter 70.105.010 Revised Code of Washington and 40 Code of Federal Register 261 and by Washington Administrative Code 173-303.
- D. Proper Disposal: As defined by the jurisdiction receiving the waste.
- E. Recyclable Materials: Products and materials that can be recovered and remanufactured into new products.
- F. Recycling: The process of sorting, cleaning, treating and reconstituting materials for the purpose of using the material in the manufacture of a new product. Can be conducted on-site (as in the grinding of concrete).
- G. Recycling Facility: An operation that is permitted to accept materials for the purpose of processing the materials into an altered form for the manufacture of a new product.
- H. Salvage for Reuse: Existing usable product or material that can be saved and reused in some manner on the project site or other projects off-site.

- I. Salvage for Resale: Existing usable product or material that can be saved and removed intact (as is) from the project site to another site for resale to others without remanufacturing.
- J. Source-Separated Materials: Materials that are sorted at the site into separate containers for the purpose of reuse or recycling.
- K. Sources Separation: Sorting the recovered materials into specific material types with no, or a minimum amount of, contamination on site.
- L. Time-Based Separation: Collecting waste during each phase of construction or deconstruction that results in primarily one major type of recovered material. The material is removed before it becomes mixed with the material from the next phase of construction.
- M. Garbage: Product or material typically considered to be trash or debris that is unable to be salvaged for resale, salvaged and reused, returned, or recycled.

**1.03 SUBMITTALS**

- A. Waste Management Plan
- B. Waste Management Final Report

**1.04 PERFORMANCE GOALS**

- A. General: Divert CDL waste to the maximum extent practicable from the landfill by one or a combination of the following activities:
  - 1. Salvage
  - 2. Reuse
  - 3. Source separated CDL recycling
  - 4. Co-mingled CDL recycling
- B. CDL waste materials that can be salvaged, resold, reused or recycled, include, but are not limited to the following:
  - 1. Clean dimensional wood, pallet wood, plywood, OSB, and particleboard
  - 2. Asphalt
  - 3. Concrete and concrete masonry units
  - 4. Brick
  - 5. Ferrous and non-ferrous metals
  - 6. Gypsum products
  - 7. Acoustical ceiling tile
  - 8. Glass, both window and bottle
  - 9. Plastics, including plastic film
  - 10. Carpet and pad
  - 11. Cardboard packaging
  - 12. Insulation

13. Field office waste paper, aluminum cans, glass, plastic, and cardboard
- C. Hazardous/Dangerous Wastes, contaminated soils and other hazardous materials such as paints, solvents, adhesives, batteries, and fluorescent light bulbs and ballasts shall be disposed of at applicable permitted facilities.

#### **1.05 WASTE MANAGEMENT PLAN**

- A. Per the requirements of Section 01 32 19 - Preconstruction Submittals, submit to the Engineer a Waste Management Plan narrative in accordance with these specifications. Use the Waste Management Plan Form attached at the end of this Section or other format as accepted by the Engineer (Attachment A).
- B. The Waste Management Plan shall include the following:
  1. Name of designated Recycling Coordinator
  2. A list of waste materials that will be salvaged for resale, salvaged for reuse, recycled, and disposed.
  3. Identify waste handling methods to be used, including one or more of the following:
    - a. Method 1 – Contractor or subcontractor(s) hauls recyclable materials to an accepted recycling facility.
    - b. Method 2 - Contracting with diversion/recycling hauler to haul recyclable material to an accepted recycling or material recovery facility.
    - c. Method 3 – Recyclable material reuse on-site.
    - d. Method 4 – Recyclable material salvage for resale.
  4. Identification of each recycling or material recovery facility to be utilized, including name, address and types of materials being recycled at each facility
  5. Description of the method to be employed in collecting, and handling, waste materials.
  6. Description of methods to communicate Waste Management Plan to personnel and subcontractors.

#### **1.06 WASTE MANAGEMENT FINAL REPORT**

- A. Use the Waste Management Final Report Form attached at the end of this section or other format as accepted by the Engineer (Attachment B). The Waste Management Final Report shall list the following for the project:
  1. A record of each waste material type and quantity recycled, reused, salvaged, or disposed from the Project. Include total quantity of waste material removed from the site and hauled to a landfill.
  2. Percentage of total waste material generated that was recycled, reused, or salvaged.
- B. Quantities shall be reported by weight (tons) unless otherwise accepted by the Engineer.

- C. Submit copies of manifests, weight tickets, recycling/disposal receipts or invoices, which validate the calculations or a signed certification of completeness and accuracy of the final quantities reported.

#### 1.07 QUALITY ASSURANCE

- A. Regulatory Requirements: The Contractor shall maintain compliance with all applicable Federal, State, or Local laws that apply to Construction Waste Management and material salvage, reuse, recycling and disposal.

Verify information below about King County's Construction and Demolition Recycling Program, including website address, to ensure it is current.

- B. Disposal Sites, Recyclers and Waste Materials Processors: All facilities utilized for management of any materials covered under this specification must maintain all necessary permits as required by federal, state and local jurisdictions.
- C. For a comprehensive list of recycling facilities in King County, and other Contractor resources, contact King County's Construction and Demolition Recycling Program:

<http://your.kingcounty.gov/solidwaste/greenbuilding/construction-demolition.asp>

#### PART 2 NOT USED

#### PART 3 EXECUTION

##### 3.01 SOURCE-SEPARATED CDL RECYCLING

- A. Provide individual containers for separate types of CDL waste to be recycled, clearly labeled with a list of acceptable and unacceptable materials.

##### 3.02 CO-MINGLED CDL RECYCLING

- A. Provide containers for co-mingled CDL waste to be recycled, clearly labeled with a list of acceptable and unacceptable materials.

##### 3.03 LANDFILL

- A. Provide containers for CDL waste that is to be disposed of in a landfill clearly labeled as such.

##### 3.04 REMOVAL OF CDL WASTE FROM PROJECT SITE

- A. Transport CDL waste off Owner's property and legally dispose of them.

#### PART 4 MEASUREMENT AND PAYMENT

##### 4.01 GENERAL

- A. Payment for "Construction Waste Management" will be made at the Contract lump sum price bid in the Schedule of Unit Prices and shall be full compensation for furnishing all labor, equipment, materials and tools to develop and submit the Waste Management Plan and Waste Management Final Report. Payments will be made as follows:
  - 1. Upon acceptance of the Contractor's Waste Management Plan, 25%. (See Attachment A)
  - 2. Upon acceptance of the Contractor's Waste Management Final Report, 75%. (See Attachment B)

OR if Lump Sum use:

4.01 GENERAL

- A. No separate measurement or payment will be made for the Work required by this section. The cost for this portion of the Work will be considered incidental to, and included in the payments made for the Lump Sum price bid for this project.

End of Section