NOTE TO CONSULTANTS: Edit, with Track Changes turned on, any text in this section that appears in Bold and Italics then, after approval of the edits, accept changes for the final version. (Remove this Note).

PART 1 – GENERAL

1.01 SECTION INCLUDES:

A. This Section includes the procedures and requirements for the disposal of wastes, other than dangerous and contaminated waste, generated by the construction activities.

B. Effective June 1, 1991 and in accordance with SMC 21.36 as amended by Ordinance 115589, no Waste generated within the City of Seattle shall be deposited in a Waste disposal facility owned and operated by King County.

C. Waste that is Unacceptable Waste must be disposed of in accordance with all applicable local, State and federal regulations. Waste that appears to be an Unacceptable Waste must obtain a Waste Clearance through the Seattle-King County Department of Public Health (SKCDPH). Copies of the forms or information regarding the forms may be obtained by calling SKCDPH at 296-4633.

D. Disposal of ***[HAZMAT list]*** shall be as specified in ***[Section list]***.

1.02 GENERAL REQUIREMENTS:

A. All Wastes generated during the course of the project shall be disposed of in accordance with all applicable local, State and federal regulations.

B. No unacceptable or hazardous waste is contemplated. In the event that unacceptable of hazardous waste is encountered the Owner will consider this as a Changed Condition."

1.03 RELATED WORK:

A. ***(Edit) Related Sections***

1.04 DEFINITIONS:

A. The following terms used in this Section are defined in local, state, or federal regulations, including but not limited to: Chapter 173-303 WAC, King County Solid Waste Regulations 10.08.185, and SMC 21.36. The Contractor is responsible for determining the current construction and true content of the laws, statutes, resolutions, ordinances, or regulations applicable to the Work of the Contract.

1. Contaminated Soils
2. Construction, Demolition and Land Clearing Waste (CDL Waste)
3. Dangerous Waste
4. Small Quality Generator Hazardous Waste
5. Solid Waste
6. Special Category Wastes

7. Special Waste

8. Unacceptable Waste

9. Waste or City Waste

B. The following ***[definition] [definitions]*** used in this section ***[is] [are***] defined:

#. <u>Health Officer</u>: The Director of the Seattle-King County Department of Public Health (SKCDPH) or his/her designated representative

#. <u>Wetlands</u>: Areas inundated or saturated by ground or surface water at a frequency and duration sufficient to support, and, under normal circumstances, do support a prevalence of vegetation typically adapted to life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas.

1.05 SUBMITTALS:

A. At the Pre-Construction Conference, the Contractor shall submit to the Engineer a list of wastes that will be generated by the project. A proposed recycling facility or disposal site shall be identified for each waste stream. The list shall identify:

1. Each location.

2. Estimated quantities.

3. Type of material to be wasted at each site or removed from each site.

B. Should additional or alternate sites become necessary during the life of the Contract, the locations and information for each site shall be submitted to the Engineer for approval at least 10 Working Days prior to their use.

C. Furnish copies of permits for waste sites.

D. All wastes shall be transported in accordance with federal, state and local transportation requirements, including driver training, placarding and use of shipping papers or waste manifests.

E. The Owner may request to review or approve all shipping papers prior to wastes leaving the project site.

F. When required by law, waste shipping papers shall be returned to the Owner within the legally specified time.

G. Furnish copies of residential property owner agreements.

H. Upon completion of operations at any site for which a written agreement with a property owner has been made, obtain and submit a release from all damages, duly executed by the property owner, stating that the restoration of the property has been satisfactorily accomplished.

I. Submit HD Waste Clearance Program forms directly to SKCDPH. Provide a copy to the Engineer.

1.06 REQUIREMENTS FOR WASTE DISPOSAL SITES:

A. Waste sites shall be provided by the Contractor.

B. Waste sites shall meet the environmental, grading, safety and health requirements of the State, county and local political subdivision where located.

1. If the waste site is not legally licensed and permitted, the Contractor shall obtain required permits for the site.

2. Sites, operations, or results of operations, which create a definite nuisance problem, or which result in damage to public or private properties will not be permitted.

C. The selection of Waste and borrow sites and their operation shall at all times be subject to the approval of the Engineer.

1. No waste or borrow site shall be utilized by the Contractor until the proper grading permits and property owner agreements have been obtained by the Contractor and copies submitted to the Engineer.

2. Utilization of a site without a legal grading permit, a consent Agreement from the property owner, and approval of the Engineer will be considered unauthorized.

D. Disposal of excess material within a wetland area will not be allowed without a Section 404 permit issued by the U.S. Corps of Engineers and approval by the local agency with jurisdiction over the wetland.

1. The Contractor shall notify the Engineer prior to submittal of an application for this or any other environmental permit.

E. Waste sites located within the City limits of Seattle are subject to the rules and regulations set forth in Seattle Grading and Drainage Control Ordinance. (Ordinance No. 108080 as amended by Ordinance No. 111043, or as otherwise provided in the Seattle Municipal Code 22.800) The sites shall require a grading permit issued to the property owner by the Director of Planning and Development.

F. Waste sites located outside the City limits of Seattle but within unincorporated King County, shall be subject to the rules and regulations set forth in the King County Grading Ordinance (Ordinance No. 1488). Sites may also be subject to rules and regulations of a local governmental authority if located within its jurisdiction.

G. Surplus material shall not be wasted within the public rights of way without a grading permit and, if within the City limits of Seattle, a street use permit issued by the Director of the Seattle Department of Transportation. (SDOT).

H. Final cleanup shall be in accordance with the requirements specified in the Grading Ordinance, permits, property owner agreements and other Contract Documents.

I. When operations are complete, a release from all damages, duly executed by the waste site property owner and stating that the restoration of the property is satisfactory, is required.

1. Retainage withheld from the Contractor's payments will not be released until all such property owner releases have been furnished to the Engineer.

J. Should the release be, in the opinion of the Owner, arbitrarily withheld, and then the Owner may, at its sole discretion, accept that portion of the work involved and cause final payment to be made.

1.07 WASTE MANAGEMENT GOALS:

A. The Owner has established that this Project shall generate the least amount of waste possible and that processes that ensure the generation of as little waste as possible due to error, poor planning, breakage, mishandling, contamination, or other factors shall be employed.

B. Of the inevitable waste that is generated, as many of the waste materials as economically feasible shall be reused, salvaged, or recycled. Waste disposal in landfills shall be minimized.

C. With regard to these goals the Contractor shall develop, for the Engineer's review, a Waste Management Plan for this Project.

1.08 WASTE MANAGEMENT PLAN:

A. Draft Waste Management Plan: Within 10 calendar days after receipt of Notice of Award of Bid, or prior to any waste removal, whichever occurs sooner, the Contractor shall submit to the Engineer a Draft Waste Management Plan. The Draft Plan shall contain the following:

1. Analysis of the proposed jobsite waste to be generated, including types and quantities.

2. Landfill options:

a. The name of the landfill(s) where trash will be disposed of.

b. The applicable landfill tipping fee(s).

c. The projected cost of disposing of all Project waste in the landfill(s).

3. Alternatives to Landfilling: A list of each material proposed to be salvaged, reused, or recycled during the course of the Project, the proposed on-site use or the proposed local market for each material, and the estimated net cost savings or additional costs resulting from separating and recycling (versus landfilling) each material. "Net" means that the following have been subtracted from the cost of separating and recycling:

a. Revenue from the sale of recycled or salvaged materials.

b. Landfill tipping fees saved due to diversion of materials from the landfill.

4. The following list of materials, at minimum, shall be included:

a. Cardboard

b. Clean dimensional wood

c. Beverage containers

d. Logs and timbers

e. Site milled lumber

f. Salvageable plants: trees, shrubs and groundcovers

g. Land clearing debris

h. Concrete—include delivery overage, truck cleanout, etc.

i. Stone

j. Concrete Masonry Units (CMU)

k. Asphalt

l. Metals from banding, stud trim, ductwork, piping, rebar, roofing, other trim, steel, iron, galvanized sheet steel, stainless steel, aluminum, copper, zinc, lead, brass and bronze.

m. Liquid foam insulation

n. Building insulation

o. Plastics

p. Gypsum wallboard

q. Carpeting

r. Paint

B. Resources for Development of Waste Management Plan: The following sources may be useful in developing the Draft Waste Management Plan:

1. City of Seattle, Seattle Public Utilities Department (See City of Seattle Web Site).

2. King County, The Business and Industry Recycling Venture (the BIRV) (See King County Web Site).

3. King County Solid Waste Division (See King County Web Site).

4. Washington State Department of Ecology (See Washington State Web Site).

C. Final Waste Management Plan: Once the Owner has determined which of the recycling options addressed in the draft Waste Management Plan are acceptable, the Contractor shall submit, within 10 calendar days a Final Waste Management Plan. The Final Waste Management Plan shall contain the following:

1. Analysis of the proposed jobsite waste to be generated, including types and quantities.

2. Landfill options: The name of the landfill(s) where trash will be disposed of, the applicable landfill tipping fee(s), and the projected cost of disposing of all Project waste in the landfill(s).

3. Alternatives to Landfilling: A list of the waste materials from the Project that will be separated for reuse, salvage, or recycling.

4. Meetings: A description of the regular meetings to be held to address waste management. Refer to Section 01 32 13 – Progress Schedules.

5. Materials Handling Procedures: A description of the means by which any waste materials identified in item (3) above will be protected from contamination, and a description of the means to be employed in recycling the above materials consistent with requirements for acceptance by designated facilities.

6. Transportation: A description of the means of transportation of the recyclable materials (whether materials will be site-separated and self-hauled to designated centers, or whether mixed materials will be collected by a waste hauler and removed from the site) and destination of materials.

1.09 WASTE MANAGEMENT PLAN IMPLEMENTATION:

A. Manager: The Contractor shall designate an on-site party (or parties) responsible for instructing workers and overseeing and documenting results of the Waste Management Plan for the Project.

B. Distribution: The Contractor shall distribute copies of the Waste Management Plan to the Job Site Foreman, each Subcontractor, the Engineer, and the Consultant.

C. Instruction: The Contractor shall provide on-site instruction of appropriate separation, handling, and recycling, salvage, reuse, and return methods to be used by all parties at the appropriate stages of the Project.

D. Separation facilities: The Contractor shall layout and label a specific area to facilitate separation of materials for potential recycling, salvage, reuse, and return. Recycling and waste bin areas are to be kept neat and clean and clearly marked in order to avoid contamination of materials.

E. Hazardous wastes: Hazardous wastes shall be separated, stored, and disposed of according to local regulations.

F. Application for Progress Payments: The Contractor shall submit with each Application for Progress Payment a Summary of Waste Generated by the Project. Failure to submit this information shall render the Application for Payment incomplete and shall delay Progress Payment. The Summary shall be submitted on a form acceptable to the Engineer and shall contain the following information:

1. The amount (in tons or cubic yards) of material landfilled from the Project, the identity of the landfill, the total amount of tipping fees paid at the landfill, and the total disposal cost. Include manifests, weight tickets, receipt, and invoices.

2. For each material recycled, reused, or salvaged from the Project, the amount (in tons or cubic yards), the date removed from the jobsite, the receiving party, the transportation cost, the amount of any money paid or received for the recycled or salvaged material, and the net total cost or savings of salvage or recycling each material. Attach manifests, weight tickets, receipts, and invoices.

PART 2 - PRODUCTS

Not applicable.

PART 3 – EXECUTION

3.01 GENERAL:

A. Use only approved waste sites.

B. Take the protective measures required for the type of waste being handled.

C. After disposal, perform all operations necessary to put the waste sites in a neat, clean and orderly condition.

D. Final cleanup shall be in accordance with Division 00 and the requirements of the Grading Ordinance, permits, and residential property agreements.

3.02 SITE MAINTENANCE:

A. Keep work area, site, and adjacent properties free from accumulations of waste materials, rubbish, and windblown debris resulting from Contractor's operations.

B. Provide on-site containers for collection of waste materials, debris, and rubbish. Periodically remove waste from the site.

C. Do not use the Owner's waste containers for construction waste.

D. Dispose daily of all flammable, hazardous, and toxic waste materials. Dispose of trash and debris in compliance with governing codes, ordinances, regulations, and anti-pollution laws.

E. Locate dumpster(s) inside the staging area or at a site designated by the Engineer.

3.03 DISPOSAL OF SURPLUS MATERIAL:

A. Material obtained from all excavation within the Project boundary shall not be wasted unless the excavated material is designated by the Engineer as unsuitable for use in embankment construction, trench backfill, or for other purposes.

1. All excavated material not required for backfill shall be removed from the site as the work progresses.

B. Material which is surplus to the needs of the Project or determined to be unsuitable by the Engineer shall be disposed of in accordance with the requirements noted herein.

END OF SECTION