CONSTRUCTION WASTE MANAGEMENT
SECTION 01524

{Instruction to Consultants: The Master Specification must only be considered to be general guidelines as it is not prepared for a Specific Project. If the items described in the Master Specification do not match the items actually going to be used in a Specific Project, then the Consultant must add new text or modify the existing text so that the final Specification is fully coordinated and consistent with the Contract Drawings. The Master Specification must not be considered complete. Additions and deletions necessary to make it Project specific are required from the Consultant.

The Consultant may modify the Master Specification Section as required by the scope and nature of the Specific Project. The general format and general statements of the various Sections must remain unchanged. The Consultant must modify and finalize the footer to identify the Specific Project as to name of Project, Project number, and issued for/issue date.}

PART 1 GENERAL

1.01 SUMMARY

A. The disposal of non-hazardous construction waste generated by work pertaining to this Contract shall be in accordance with Section 11-4-1905 of the Chicago Municipal Code ("Code") with exceptions as noted in this Specification Section.

B. This Section includes use and tracking requirements and procedures for compliance with certain sustainable design guidelines based on the latest version of the Chicago Department of Aviation Sustainable Airport Manual (SAM). Reference can be found at www.airportsgoinggreen.org.

C. This Section includes tracking requirements and forms necessary for compliance with this Specification and in accordance with the requirements of Credit 5.3 of the SAM.

1.02 RELATED DOCUMENTS

A. Section 11-4-1905, “Construction or Demolition Site Waste Recycling”, of the Chicago Municipal Code. (attached at end of this Specification Section)


C. Related Specification Sections include the following:
   1. X-100 Site Demolition
   2. 02220 Site Demolition
1.03 PERFORMANCE REQUIREMENTS

A. The Contractor will adhere to Section 11-4-1905 of the City of Chicago Municipal Code with exceptions as noted in this Specification Section.

1.04 SUBMITTALS

A. The Contractor must transmit the submittals described below to the Commissioner/Construction Manager and to the following email address: samdocs@cityofchicago.org.

B. The Contractor shall submit documentation pursuant to 11-4-1905 of the Code with the following additions:

1. The City of Chicago C&D Debris Recycling Compliance Form (attached at the end of this Specification) shall be submitted monthly with the Contractor’s Application for Payment. Do not complete beyond Line D (p.3) under the “Calculation of Recycling Percentage” of the C&D Debris Recycling Compliance Form and do not include the “Election Form and Contractor Affidavit” (p.4).

2. The Contractor shall submit a Waste Management Plan and a preconstruction estimate of the C&D debris quantities prior to the Contractor’s initial Application for Payment for Mobilization.

3. The Contractor shall submit a post-construction City of Chicago C&D Debris Recycling Form with the Contractor’s Application for Reduction of Retainage from 5% to 3%.

C. Waste Management Plan: The Plan shall be developed by the Contractor and shall be submitted to the Commissioner for review with the Contractors Application for Payment for Mobilization. The Plan shall include the following sections, at a minimum:

1. General: Provide an overall strategy for managing the C&D debris associated with the Project.

2. Waste Identification: Indicate anticipated types and quantities by weight of demolition, site-clearing and construction waste generated by the Project. Include estimated quantities by weight and assumptions for estimates.

3. Waste Reduction Work Plan: List each type of waste and whether it will be salvaged, recycled, or disposed of in landfill or incinerator. Include points of waste generation, total weight of each type of waste, final disposition for each waste type, and handling and transportation procedures.

a. Salvaged Materials: For each type of material that is salvaged or recycled, describe the type of material,
source, estimated quantity, and receiving entity. Include names, addresses, and telephone numbers for the receiving individuals and/or organizations.

b. Disposed Materials: Indicate how and where materials will be disposed. Include name, address, and telephone number of each landfill and incinerator facility.

c. Handling and Transportation Procedures: Include method that will be used for separating recyclable waste including sizes of containers, container labeling, and designated location on Project site where materials separation will be located.

d. Stockpiles: For on-airport stockpiles, indicate location(s) and proposed materials to be received at each stockpile location.

4. Preconstruction C&D Quantities Estimate: For every material recycled, salvaged, or disposed, estimate the quantity of each that is anticipated to be reused on-site, recycled off-site, or disposed off-site. Use the City of Chicago C&D Debris Recycling Form as a template (attached at the end of this Specification).

D. Construction Waste Management Submittal Transmittal: When submitting the documentation to the Commissioner as required in Paragraphs 1.04B and 1.04C, the Contractor must complete the Submittal Transmittal Cover Sheet attached at the end of this Specification section and attach this with the appropriate submittal.

E. All Chicago Department of Aviation (CDA) Projects must submit the documents outlined in Paragraph 1.04B to the Commissioner even if exempted by Section 11-4-1905 (3) of the Municipal Code.

1.05 QUALITY ASSURANCE

A. Contractor Qualifications: Construction waste management work must be performed only by a qualified Contractor. The term qualified means experienced in performing the Work required by this Section. The qualified Contractor must have experience on Projects similar in size and scope to this Project. The Contractor will submit evidence of such qualifications (e.g. Project list, timeframe, amount of materials recycled, construction cost) upon request by the Commissioner.

B. Regulatory Requirements: In addition to City Ordinances regarding waste recycling described herein, Contractor will comply with waste transport and disposal regulations of authorities (e.g. state, local, or federal) having jurisdiction.
1.06 SPECIAL REQUIREMENTS

A. (Not Used)

PART 2 PRODUCTS

A. (Not Used)

PART 3 EXECUTION

3.01 PLAN IMPLEMENTATION

A. General: Implement Waste Management Plan as approved by Commissioner. Provide means of handling, containers, storage areas, signage transportation, and other items to facilitate implementation of the Waste Management Plan for the duration of the Contract.

B. Waste Management Coordinator: Assign a Waste Management Coordinator to be a single point of contact responsible for implementation, monitoring, and reporting of the waste management activities. Coordinator must be present for the duration of the Contract.

C. Training: Contractor is responsible for training workers, subcontractors, and suppliers on proper waste management procedures as applicable to this Contract. Distribute Waste Management Plan to all subcontractors and suppliers when Contract work begins.

D. Site Access and Temporary Controls: Waste management operations shall be conducted in a manner to minimally impact airport and public roadways, streets, walks, and adjacent occupied facilities. A site will be designated and identified as such for the classification of materials to be salvaged, recycled, reused, sold, donated, or disposed.

3.02 DISPOSAL OF WASTE

A. General: Except for materials to be recovered, recycled, or reused, all other materials will be removed from the Project site. The Contractor will legally dispose of these remaining materials in a legal manner.

1. Unless otherwise specified, do not allow waste materials to accumulate on-site.

2. Remove and transport C&D debris in a manner that will prevent spillage and all trucks to be tarped or covered at all times during transport en route to ultimate destination.
PART 4  METHOD OF MEASUREMENT

4.01 MEASUREMENT

A. Construction Waste Management will not be measured separately for payment, but will be considered included in the overall Contract.

PART 5  BASIS OF PAYMENT

5.01 PAYMENT

A. All costs associated with meeting these requirements are included in the overall Contract. No additional time or monies will be granted to the Contractor for compliance with these requirements and any associated regulations.

END OF SECTION 01524
CHICAGO DEPARTMENT OF AVIATION
01524 CONSTRUCTION WASTE MANAGEMENT

SUBMITTAL TRANSMITTAL COVER SHEET

Date: _____________________
Project: _____________________
WBS No. _____________________

Attention: Construction Manager

To: O'Hare Modernization Program
10501 W. Zemke Blvd.
Chicago, Illinois 60666

and via email to: samdocs@cityofchicago.org

The following form(s) are submitted to comply with the requirements of the
01524 Construction Waste Management Specification Section (Check one):

☐ Waste Management Plan and Pre-Construction C & D Debris Estimate
☐ Monthly C & D Debris Recycling Compliance Form
☐ Final C & D Debris Recycling Compliance Form

From:

Company:

Printed Name:

Title:

Signature:

Date:

Reviewed by:

Resident Engineer

Note: These submittal requirements are in addition to the requirements put forth by the City of Chicago as outlined in Section 11-4-1905 of the Chicago Municipal Code.
responsible responsibilities under this chapter and to coordinate the activities of the department of streets and sanitation with the department of the environment.

(Added Coun. J. 12-11-91, p. 10978)

11-4-1880 Fee-for-service contracts.

Wherever recycling services are not to be directly provided by the department of streets and sanitation to households in low-density dwellings, the department shall adopt regulations governing the issuance of fee-for-service contracts to provide for-profit and not-for-profit recycling operations. Such regulations shall, at a minimum, include criteria for providing diversion credits, tax credits, and any other forms of financial assistance deemed appropriate by the department.

(Prior code § 99.1-7; Added Coun. J. 2-28-90, p. 12605; Amend 12-11-91, p. 10978)

11-4-1890 Promotion of economic development—Markets for recycled materials.

In order to promote economic development within the city and to encourage markets for recycled materials, the city department of planning and development in coordination with the department of the environment and other city departments, as appropriate, shall implement programs to build demand for recycled products among Chicago businesses, resident and local governments; to build markets for recycled materials by attracting to the city manufacturers that use recycled material as raw material; and to assist businesses in developing capacity to use recycled material in place of virgin material.

(Prior code § 99.1-8; Added Coun. J. 2-28-90, p. 12605; Amend 12-11-91, p. 10978)

11-4-1900 Promotion of recycling.

(a) On or before July 1, 1990, the department of planning and development in cooperation with the department of the environment and the department of streets and sanitation, shall develop and implement programs for issuing grants and loans to promote recycling in the City of Chicago.

(b) The department of planning and development shall submit an annual report to the mayor and the city council concerning the implementation of this section, as well as programs to build demand for recycled products among Chicago businesses, residents and local governments, programs for attracting to the city manufacturers that use recycled material as raw material, and programs to assist businesses in developing capacity to use recycled material in place of virgin material. Such report shall be available on September 1st of each year.

(Prior code § 99.1-9; Added Coun. J. 2-28-90, p. 12605; Amend 12-11-91, p. 10978)

ARTICLE XIV. REPROCESSABLE CONSTRUCTION/DEMOLITION MATERIAL

11-4-1905 Construction or demolition site waste recycling.

(1) For purposes of this section, the term[s]:

(a) "Contractor" shall have the meaning of general contractor as defined in Section 4-36-010 and shall also include any person engaged in the demolition or wrecking of a structure for which a permit is required under Section 13-32-230.

(b) "Construction and demolition debris" has the meaning ascribed to the term in Section 11-4-120 of this Code, but does not include materials that are contaminated by lead, asbestos, or other hazardous materials in such a way as to render recycling illegal or impossible.

(2) Any project subject to this section shall be required to recycle construction or demolition waste produced on site as part of construction or demolition activities by meeting the following requirements:

(a) The contractor on a project that is issued a permit on or after January 1, 2006, but before January 1, 2007, shall cause to be recycled at least 25 percent of construction and demolition debris, as measured by weight, produced on site.
The contractor on a project that is issued a permit on or after January 1, 2007, shall cause to be recycled at least 50 percent of construction and demolition debris, as measured by weight, produced on site.

(3) The following projects are subject to this section:

(a) Residential projects with four or more units that involve the construction of a new structure or that involve buildings or structures that have been substantially rehabilitated, as determined by the commissioner of the department of buildings.

(b) Any construction that will require a certificate of occupancy to issue from the department of buildings.

(c) Any building demolition, other than projects for which the total cost is less than $10,000.00.

A project is exempt from this section if only a plumbing permit, only an electrical permit or only a mechanical permit is required.

(4) The contractor shall submit documentation as described herein to the department of the environment to verify compliance with this section. Projects meeting the requirements of (2)(a) or (2)(b) of this section shall submit documentation prior to the issuance of a certificate of occupancy by the department of buildings. Projects meeting the requirements of (2)(c) of this section shall submit documentation within 60 days of completion of a project. Documentation shall be in a form prescribed by the commissioner of the department of environment and consist of notarized affidavits from the contractor and the waste hauler for the project certifying that the project fully complies with subsection (1) or, in the case of an application for a certificate of occupancy for a portion of a partially completed project, that the project is in compliance with subsection (1) at the time the application is made. The department of environment will certify to the department of buildings and the department of construction and permits that the contractor has complied with this ordinance if: (i) the contractor has met the stated recycling goals; or (ii) the contractor has been fined for that project under subsection (6), and the fine has been paid in full. In addition, a contractor must comply with all reasonable requests for information and documentation made by the department pursuant to an audit to monitor compliance with this section. Whenever any affiant knowingly and falsely states that a project has met the requirements of this section, or whenever any contractor knowingly submits an affidavit with such a false statement, or whenever any person knowingly fails to comply with a reasonable request made pursuant to an audit under this section, such action will be grounds to deny or revoke the issuance of a certificate of occupancy, will subject the person to a fine of $200,00.00 to $500,000.00, and will subject the person to additional penalties and fines pursuant to this Code or state law including, but not limited to, the revocation or suspension of an affiant's or contractor's general contractor's license pursuant to Chapter 4-36.

(5) The commissioner of the department of environment, the commissioner of the department of buildings, the commissioner of the department of streets and sanitation or the executive director of the department of construction and permits may promulgate such rules and regulations as necessary to implement the provisions of this section.

(6) Projects that fail to meet the recycling percentages identified in subsection (1) shall be subject to the following fines:

- For construction projects or involving demolitions greater than 10,000 square feet of renovated, newly constructed, or demolished space, $5,000.00 for each percentage point of difference between the amount by this section to be recycled and the amount actually recycled.

- For construction projects or demolitions involving less than 10,000 square feet of renovated, newly constructed, or demolished space, $2,000.00 for each percentage point of difference between the amount required by this Section to be recycled and the amount actually recycled.

(Added Coun. J. 12-15-04, p. 40436, § 3)
CITY OF CHICAGO
CONSTRUCTION & DEMOLITION DEBRIS RECYCLING
COMPLIANCE FORM - 2006

This is a ☐ construction project / ☐ demolition project. (Check one.)

(Please see the instructions on page 4.)

<table>
<thead>
<tr>
<th>Contractor Information</th>
<th>Construction/Demolition Site Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contractor Name</td>
<td>Address of Project Site</td>
</tr>
<tr>
<td>Contractor License Number</td>
<td>Building/Demolition Permit Number</td>
</tr>
<tr>
<td>Street Address</td>
<td>Project Completion Date</td>
</tr>
<tr>
<td>City State Zip Code</td>
<td>Size of Project (square feet)</td>
</tr>
<tr>
<td>Telephone Number</td>
<td>Project Manager’s Name &amp; Telephone Number</td>
</tr>
<tr>
<td>Contact Name and Title</td>
<td>Property Owner’s Name &amp; Telephone Number</td>
</tr>
</tbody>
</table>

**Construction and Demolition Debris Information**

<table>
<thead>
<tr>
<th>C&amp;D Debris Weight Information</th>
<th>Recycled C&amp;D Debris Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>1) Tons of all C&amp;D debris produced on site (This amount must match the total on page 2.)</td>
<td>4) Tons of C&amp;D debris recycled/reused off site (Completed Waste Hauler/Recycler Affidavit(s) must be attached to account for all debris taken to a recycler.)</td>
</tr>
<tr>
<td></td>
<td>plus:</td>
</tr>
<tr>
<td></td>
<td>5) Tons of reprocessed C&amp;D debris used on site (Copy of DOE construction site reprocessing authorization must be attached.)</td>
</tr>
<tr>
<td></td>
<td>equals:</td>
</tr>
<tr>
<td></td>
<td>6) Total amount of recycled/reused C&amp;D debris (List this amount on page 3, line “B.”)</td>
</tr>
</tbody>
</table>

NOTE: Pursuant to Section 11-4-1905(4) of the Chicago Municipal Code, all contractors are subject to audit to verify compliance. All documentation that supports this form (such as weight tickets and receipts) must be retained for no less than three years from the date that this form is filed.
### Breakdown of all C&D Debris Produced on Site

<table>
<thead>
<tr>
<th>C&amp;D Debris Type</th>
<th>On site Reused (tons)*</th>
<th>Off Site Reused/Recycled (tons)*</th>
<th>Off Site Disposed (tons)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bricks</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Concrete</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Masonry materials (cinder blocks, mortar etc.)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rock, stone, gravel</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Soil, dirt</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sand</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reclaimed asphalt pavement</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wood</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ferrous metal (iron, steel etc.)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nonferrous metal (copper wiring etc.)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Plaster</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gypsum drywall</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Paint</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Plumbing fixtures and piping</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Carpet and Pad</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Non-asbestos insulation</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Roofing shingles &amp; other roof coverings</td>
<td></td>
<td></td>
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<tr>
<td>Cardboard, paper, packaging</td>
<td></td>
<td></td>
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<tr>
<td>Plastics</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Glass</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Landscape debris</td>
<td></td>
<td></td>
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<tr>
<td>Hazardous materials (please specify):</td>
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<td></td>
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</tr>
<tr>
<td>Other (please specify):</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

Subtotals: __________  __________  __________

Total of all C&D debris produced on site (sum of the above 3 columns): __________

*If weight measurements are not available, convert volume to weight and retain documentation to support the accuracy of the converted measurement.

**Waste Hauler/Recycler affidavits must be attached to account for the amount of C&D debris recycled or disposed of off site. To account for C&D debris reused on or off site, the contractor must provide supporting documentation upon request by the Dept. of Environment.
Calculation of Recycling Percentage

A) Total amount of Recycled/Reused C&D debris .......... tons
   (from line 6, page 1)

B) Total amount of Recyclable C&D debris .............. tons
   (from line 3, page 1)

   If Line B is zero, skip to Contractor Affidavit on page 4.

C) Percent of C&D debris Recycled .......................... percent
   (divide A by B and multiply by 100)

   Example:
   A. Total amount of Recycled/Reused C&D debris ... 2,025 tons
   B. Total amount of Recyclable C&D debris ........  5,700 tons
      \[ \frac{2,025}{5,700} = 0.36 \text{ (rounded to the nearest hundredth)} \]
      \[ 0.36 \times 100 = 36 \]
   C. Percent of C&D debris Recycled ..............  36 percent

D) Percent required to be recycled (for 2006) ............ percent

E) Line D minus line C ...................................... percent

   If Line E is greater than 0%, go to Line F; if not, skip to Contractor Affidavit on page 4.

F) Multiply line E by:

   - $1,000 - if project space is 10,000 square feet or more
   - $500 - if project space is less than 10,000 square feet

   Total penalty ............................................ dollars

   If a penalty is owed, make payment to: City of Chicago Department of Revenue
   (City Hall, 121 N. LaSalle, Room 107A)

   **Staple original receipt here: .........................
   (Please keep a copy for your records.)

For Department of Revenue use only:

Funds Code: EB58 100-72-3035-2713 Ordinance 11-4-1905 Penalties
Election Form And Contractor Affidavit

Select one option, then sign the affidavit below before a Notary Public.

- I have complied with the recycling requirements set forth in Section 11-4-1905 of The Chicago Environmental Protection and Control Ordinance; and all the information provided heretofore and attached hereto is correct.

or

- I have paid the penalty calculated on page 3; all the information provided heretofore and attached hereto is correct; and I will not contest this penalty.

or

- I have completed this form in full; all the information provided heretofore and attached hereto is correct, and I hereby request a hearing on the applicability of Section 11-4-1905 and/or the amount of penalty due. (You will receive a notice by mail, specifying the date, time, and location of the hearing).

________________________________________
Signature

________________________________________
Name Title

Date ____________________________

Notary Public

INSTRUCTIONS

1) Complete this 4-page compliance form and sign before a Notary Public.
2) Attach one or more signed and notarized Waste Hauler/Recycler Affidavits.
3) Attach a Construction Site Reprocessing Authorization letter from the Department of Environment, if applicable.
4) Attach a receipt from the Department of Revenue, if a penalty was paid.
5) Return forms to the environment desk at DCAP, Room 906, City Hall, 121 N. LaSalle Street, within 30 days from project completion.

If you have any questions about this form, please call 312-744-7672.