# General

## Summary

* + 1. The Work of this Section includes, but is not limited to the following:
			1. Definitions;
			2. Submittals;
			3. General cleaning requirements;
			4. Progressive cleaning requirements;
			5. Cleaning prior to completion;
			6. Diversion of materials.

## Definitions

* + 1. Alternative daily cover: Material (other than earthen material) that is placed on the surface of the active face of municipal solid waste landfills at the end of each Working Day to control vectors, fires, odours, blowing litter, and scavenging.
		2. Biomass: Plant material from trees, grasses, or crops that can be converted to heat energy to produce electricity.
		3. Construction and demolition debris: Includes waste and recyclables generated from construction and from the renovation, demolition, or deconstruction of pre-existing structures. It does not include hazardous materials or land-clearing debris, such as soil, vegetation, and rocks.
		4. Eligible biofuels: Untreated wood waste, agricultural crops or waste, landfill gas, animal waste and other organic waste.
		5. Hazardous materials: As defined by relevant regulations in the location of the project. Hazardous materials should be excluded from calculations and should be disposed of according to relevant regulations.
		6. Incineration facilities: Waste management operations that use combustion as a means of reducing the volume of waste materials.
		7. Recycling: The collection, reprocessing, marketing, and use of materials that were diverted or recovered from the solid waste stream.
		8. Reuse: The return of materials to active use in the same or a related capacity as their original use, thus extending the lifetime of materials that would otherwise be discarded.
		9. Tipping fees: Charged by a landfill for disposal of waste, typically quoted per tonne.

## Submittals

* + 1. Submit end-use confirmation documentation electronically as part of closeout submittals, as indicated in Section 01 78 00.
			1. Confirmation from recycling and/or reuse facilities of the destination and end use for each material diverted from landfills.
				1. Signed letters provided by recycling and/or reuse facilities, including:

Municipal addresses of receiving facilities;

Process or method used of recycling the material (melting, crushing, chipping);

Intended use of each type of material received.

## General cleaning requirements

* + 1. Provide adequate ventilation during use of volatile or noxious substances. Do not rely on building ventilation systems for this purpose.
		2. Use only cleaning materials recommended by manufacturer of surface to be cleaned, and as recommended by cleaning material manufacturer.
		3. Prevent cross-contamination during the cleaning process.
		4. Notify the Consultant of the need for cleaning caused by Owner or Other Contractors.

## Progressive cleaning and waste management

* + 1. Maintain the Work in a tidy and safe condition, free from accumulation of waste materials and construction debris.
		2. Provide appropriate, clearly marked, containers for collection of waste materials and recyclables. Locate containers where indicated on Drawings, or where identified by the Consultant.
		3. Remove waste materials and recyclables from Work areas, separate, and deposit in designated recycling containers at end of each Working Day. Collect packaging materials for recycling or reuse.
		4. Remove waste materials and recyclables from Place of the Work weekly. Increase removal where required to ensure the site is left in a clean and tidy state.
		5. Ensure that spatters, droppings, soil, labels and debris are removed from the surfaces to receive finishes, before they set up. Leave Work and adjacent finished Work in new condition to the satisfaction of the Consultant.
		6. Use only cleaning materials which are recommended for the purpose by both the manufacturer of the surface to be cleaned and of the cleaning material.
		7. Maintain areas “broom clean” at all times during the Work. Vacuum clean interior areas immediately before finish painting commences.
		8. Do not burn or bury waste material at the site unless otherwise instructed or approved, in writing, by the Consultant.
		9. Do not allow waste material and/or debris to accumulate in an unsatisfactory or hazardous manner. Sprinkle dusty accumulations with water.
		10. Each Section shall supply the Contractor with instructions for final cleaning of their Work, for inclusion in O&M manual indicated in Section 01 78 00.
		11. Clean interior building areas prior to start of finish Work and maintain free of dust and other contaminants during finishing operations.
		12. Schedule cleaning operations so that resulting dust, debris and other contaminants will not fall on wet, newly finished surfaces nor contaminate building systems.

## Cleaning prior to completion

* + 1. Before final cleaning, arrange a meeting at Place of the Work to determine the acceptable standard of cleaning. Ensure that Owner, Consultant, Contractor and cleaning company (where applicable) are in attendance.
		2. Remove from Place of the Work surplus Products, waste materials, recyclables, temporary Work, and construction equipment not required to perform any remaining Work.
		3. Lock or otherwise restrict access to each room or area after completing final cleaning in that area.
		4. Re-clean as necessary areas that have been accessed by Contractor’s workers prior to Owner occupancy.
		5. Remove stains, spots, marks, and dirt from finished surfaces, electrical and mechanical fixtures, furniture fitments, walls, floors and ceilings.
		6. Clean and polish glass, mirrors, hardware, wall tile, stainless steel, chrome, porcelain enamel, baked enamel, plastic laminate, and all other finished surfaces. Replace broken, scratched or otherwise damaged glass.
		7. Remove dust from lighting reflectors, lenses, lamps, bulbs, and other lighting surfaces.
		8. Vacuum clean and dust exposed wall, floor, and ceiling surfaces, behind grilles, louvres and screens.
		9. Clean mechanical, electrical, and other equipment. Replace filters for mechanical equipment if equipment is used during construction.
		10. Remove waste material and debris from crawlspaces and other accessible concealed spaces.
		11. Clean exterior and interior window glass and frames.

**RoD SPEC NOTE:** Use the following 4 paragraphs for Projects that contain Exterior Scope.

**RoD SPEC NOTE:** Delete the following 4 paragraphs for Project that are Interior Scope ONLY.

* + 1. Remove stains, spots, marks, and dirt from exterior facades.
		2. Clean and sweep roofs, clear roof drains, clean gutters and downspouts.
		3. Sweep clean, power wash, remove snow and ice from exterior sidewalks, steps, driveways, roads, parking lots, and other paved surfaces.
		4. Use leaf blowers to clean landscaped surfaces.

# Products – not used

# Execution

## Diversion of materials

* + 1. Recycle and/or salvage non-hazardous construction and demolition debris excluding land-clearing debris such as soil and rocks.
			1. Prevent contamination of materials for reuse and recycling by handling in accordance with requirements for acceptance by designated facilities.
		2. Separate materials from general waste stream and stockpile in separate piles or containers, as reviewed by Consultant, and consistent with applicable fire regulations.
			1. A project may choose to separate construction waste on-site or have commingled construction waste sorted at an off-site facility.
				1. On-site separation provides immediate feedback of the ongoing waste diversion efforts but may require additional labour.
				2. Commingled recycling simplifies the waste management effort on-site. This option is especially useful for projects with tight space constraints and no room for multiple collection bins.
		3. Work with manufacturer’s to minimize unnecessary packaging and making arrangements for pallets to be reclaimed after use can also reduce waste volumes and waste management costs.
		4. The Contractor must identify on-site recycling locations and review recycling requirements with all Subcontractors.
		5. Recommended construction and demolition waste diversion shall be as follows:
			1. Minimum 75% diversion from landfill:
				1. Concrete;
				2. Asphalt;
				3. Clean rubble;
				4. Cardboard;
				5. Standard gypsum board (unpainted);
				6. Clean lumber;
				7. Glass;
				8. All metals (aluminum, steel, iron, copper).
		6. Transportation of waste:
			1. Transport all separated reusable, recyclable or disposable construction and/or demolition waste materials to approved recycling or disposal facilities.
		7. Disposal of waste:
			1. Do not bury rubbish or waste materials.
			2. Do not dispose of any waste into waterways, storm or sanitary sewers.
			3. Keep records of construction waste including:
				1. Number and size of bins;
				2. Waste type of each bin;
				3. Total tonnage generated;
				4. Re-used or recycled waste destination.
		8. Cleaning:
			1. Remove tools and waste materials on completion of Work and leave Work area in clean and orderly condition.
			2. Clean up Work area as Work progresses.
			3. Source separate materials to be reused/recycled into specified sort areas.

End of section