Construction Waste Management Plan (CWMP) – CW 1

Project Name: _____

Project Location: _____

Building Permit #: _____ **Project Sq. Ft.:** _____

Contractors Name: _____ **Telephone:** _____

Owners Name: _____ **Telephone:** _____

This construction waste management plan is hereby submitted to comply with Section 4.408.2 of the 2019 California Green Building Standards Code.

The purpose of this plan is to identify and outline the methods to be used as the minimum requirements for a construction waste management plan when the local jurisdiction does not have a construction and demolition waste management ordinance per Section 4.408.2.

1. The method of waste tracking to be used on this project will be: (Check one box)

   ☐ **Volume** ☐ **Weight** ☐ **4 Lbs. per Sq. Ft.** ☐ **Recycling Facility**

2. Construction waste generated on this project for transport to a recycling facility will be: (Check appropriate box)

   ☐ **Sorted on-site (Source-separated)** ☐ **Bulk mixed (Single stream)**

3. The facility (or facilities) where the construction waste material will be taken is:

   Name of Facility:_____
   Address:_____
   Telephone:_____
   (Attach separate sheet for additional facilities)

4. The following construction methods will be used to reduce the amount of waste generated: (Check all that apply)

   ☐ Efficient design (dimensions of building components are designed to available material sizes or standard sizes).
   ☐ Careful and accurate material ordering.
   ☐ Careful material handling and storage.
   ☐ Panelized or prefabricated construction.
   ☐ Other _____
   ☐ Other _____

5. Waste reduction and recycling strategies shall be discussed at periodic project meetings. Each new [_____]* that comes onto the site shall be provided with a copy of the CWMP, which shall also be posted in the project office. The [_____]* shall also instruct all [_____]* as to the location and proper use of debris boxes for disposal of construction waste materials.

6. Every effort shall be made to use recycling and/or reuse (diversion) measures to reduce the amount of construction waste and other materials sent to landfills. Whenever possible, site-sorted debris boxes shall be used to segregate construction waste materials to maximize the diversion rate.

7. The [_____]* shall provide debris boxes for materials sorted on-site (source-separated) and/or bulk mixed (single stream) waste for all construction related waste generated on this project. Mixed construction waste shall be taken to a recycling facility that has a diversion rate of at least 65 percent. In the event that a [_____]* provides their own debris box, they shall be responsible for providing the [_____]* with a monthly report of the total Recycled and Reused (Diverted) and the total Non-Recycled (Disposed) materials to be included in the project's overall waste management/waste reduction program.

8. Any [_____]* hauling away packaging or waste materials shall notify the [_____]* of the amount of these materials and how they will be disposed of (reused, recycled, salvaged, or taken to landfill).

9. Identified below are the construction waste materials that will be reused and/or recycled during the course of this project and how they will be diverted:

Material	Diversion Method: (Recycle/Reuse)

(See Construction Waste Management Worksheets for examples of common materials.)

10. The [_____]* shall track the total amount of construction waste leaving the project by weight or by volume and supply the [_____]* with copies of tickets or detailed receipts from all loads of construction waste removed from the jobsite.

11. The [_____]* shall monitor the process of waste management, recycling, and reuse of construction waste materials to ensure compliance with the CWMP during the course of the project.

12. The [_____]* shall ensure that all supporting documentation which demonstrates compliance with the waste management plan is provided to the local enforcement agency upon completion of the project.

* Insert title of appropriate party or responsible person, which may include, but not be limited to: *Contractor(s), Subcontractor(s), Project Manager(s), Superintendent(s), Supplier(s), or Waste Hauler(s).*

Construction Waste Management Worksheet (Volume Method) - CW 2

Project Name:		**Date:**	**Page of**
Project Location:		**Completed By:**	
Project Manager:			
Waste Hauler:		**Signature:**	

	A		B		C	D	
	Insert cubic foot or cubic yard totals into proper category below						**Notes:**
Waste Material Type	**Recycled**		**Reused**		**Diverted**	**Non-Recycled (Disposed)**	
Asphalt		+		=			
Asphalt Shingles		+		=			
Brick (broken)		+		=			
Cardboard		+		=			
Carpet/Carpet Pad		+		=			
Concrete		+		=			
Gypsum Board (Drywall)		+		=			
Masonry		+		=			
Metals		+		=			
Pallets		+		=			
Plastic		+		=			
Wood (engineered)		+		=			
Wood (solid sawn)		+		=			
Office Waste		+		=			
Other		+		=			
Other		+		=			
Other		+		=			
Total:		+		=			

Step 1 - Insert volume totals into Columns A, B, and D where appropriate.

Step 2 - Add Column A to Column B and insert total into Column C for total diverted volume.

Step 3 - Add each column down and enter totals in the boxes provided.

If Column C is larger than Column D (on the summary sheet), compliance with 50 percent waste reduction requirement is achieved.

If multiple worksheets are used, transfer column totals from each worksheet to the summary sheet.

For additional instructions and information, please see reverse.

Instructions for Weight or Volume Method:

- Choose which method of construction waste tracking to be used throughout the project. Choose either the Weight Method or the Volume Method, but do not use different methods on the same worksheet.
- To minimize confusion, use the same unit of measure and do not mix pounds and tons, or Cu. Yds. and Cu. Ft. on the same worksheet. It is easiest to stay with the same unit of measure for the entire project to avoid the need for conversions.
- Enter construction waste materials that are to be recycled under Recycled (Column A).
- Enter construction waste materials that are to be reused under Reused (Column B).
- Enter construction waste materials that will not get recycled or reused under Non-Recycled/Disposed (Column D).
- Add amounts from Column A to amounts from Column B and enter the total under Diverted (Column C).
- Add amounts in each Column (A, B, C, and D) and enter these sums into Total boxes.
- If the Diverted amount (Column C) is greater than the Non-Recycled/Disposed amount (Column D), compliance with the construction waste reduction requirement of at least 50 percent per Section 4.408.1 has been achieved.
- When more than one worksheet is used, transfer the data onto the Weight or Volume Summary Worksheet at the completion of the project.

Examples of weights and volumes of some typical construction waste materials*

Material	Range of pounds per cubic yard	Typical pounds per cubic yard	Typical cubic yards per ton
Asphalt roofing material	250-460	360	5.5
Asphalt - paving	1300-2200	1750	1.1
Cardboard	70-135	85	23.5
Concrete	1300-2200	1750	1.1
Gypsum Drywall	315-470	400	5
Metals	220-1940	540	3.7
Wood	200-540	499	5

***** Source: Sacramento Regional Solid Waste Authority

Standard Conversions: 1 cubic yard equals 27 cubic feet
1 ton equals 2000 pounds

Construction Waste Management Worksheet (Weight Method) - CW 3

Project Name:		**Date:**	**Page of**
Project Location:		**Completed By:**	
Project Manager:			
Waste Hauler:		**Signature:**	

	A		B		C	D	
	Insert weight totals into proper category below						**Notes:**
Waste Material Type	**Recycled**		**Reused**		**Diverted**	**Non-Recycled (Disposed)**	
Asphalt		+		=			
Asphalt Shingles		+		=			
Brick (broken)		+		=			
Cardboard		+		=			
Carpet/Carpet Pad		+		=			
Concrete		+		=			
Gypsum Board (Drywall)		+		=			
Masonry		+		=			
Metals		+		=			
Pallets		+		=			
Plastic		+		=			
Wood (engineered)		+		=			
Wood (solid sawn)		+		=			
Office Waste		+		=			
Other		+		=			
Other		+		=			
Other		+		=			
Total:		+		=			

Step 1 - Insert weight totals into Columns A, B, and D where appropriate.

Step 2 - Add Column A to Column B and insert total into Column C for total diverted weight.

Step 3 - Add each column down and enter totals in the boxes provided.

If Column C is larger than Column D (on the summary sheet), compliance with 65 percent waste reduction requirement is achieved.

If multiple worksheets are used, transfer column totals from each worksheet to the summary sheet.

For additional instructions and information, please see reverse.

Instructions for Weight or Volume Method:

- Choose which method of construction waste tracking to be used throughout the project. Choose either the Weight Method or the Volume Method, but do not use different methods on the same worksheet.
- To minimize confusion, use the same unit of measure and do not mix pounds and tons, or Cu. Yds. and Cu. Ft. on the same worksheet. It is easiest to stay with the same unit of measure for the entire project to avoid the need for conversions.
- Enter construction waste materials that are to be recycled under Recycled (Column A).
- Enter construction waste materials that are to be reused under Reused (Column B).
- Enter construction waste materials that will not get recycled or reused under Non-Recycled/Disposed (Column D).
- Add amounts from Column A to amounts from Column B and enter the total under Diverted (Column C).
- Add amounts in each Column (A, B, C, and D) and enter these sums into Total boxes.
- If the Diverted amount (Column C) is greater than the Non-Recycled/Disposed amount (Column D), compliance with the construction waste reduction requirement of at least 65 percent per Section 4.408.1 has been achieved.
- When more than one worksheet is used, transfer the data onto the Weight or Volume Summary Worksheet at the completion of the project.

Examples of weights and volumes of some typical construction waste materials*

Material	Range of pounds per cubic yard	Typical pounds per cubic yard	Typical cubic yards per ton
Asphalt roofing material	250-460	360	5.5
Asphalt - paving	1300-2200	1750	1.1
Cardboard	70-135	85	23.5
Concrete	1300-2200	1750	1.1
Gypsum Drywall	315-470	400	5
Metals	220-1940	540	3.7
Wood	200-540	499	5

***** Source: Sacramento Regional Solid Waste Authority

Standard Conversions: 1 cubic yard equals 27 cubic feet
1 ton equals 2000 pounds

Weight or Volume Summary Worksheet - CW 4

Project Name:		**Date:**
Project Location:		
Project Manager:		
Waste Hauler:		

Worksheets by page #	C Insert Totals Below Diverted	D Non-Recycled (Disposed)	Compliance Method (check only one box) ☐ Volume ☐ Weight
Worksheet 1			Notes:
Worksheet 2			
Worksheet 3			
Grand Totals:			

Step 1 - **Insert totals from Weight or Volume worksheets in Column C and/or D.**

Step 2 - **Add each Column down and enter grand totals in the boxes provided.**

If Column C is larger than Column D Compliance with the 50% waste reduction requirement is achieved.

Certification:

The signature below represents that the information provided on this form is true and correct and certifies that I have tracked construction waste during the course of this project and that a minimum of 50% of the total waste has been diverted for either reuse or recycling.

Company Name: (general contractor, subcontractor, or homeowner)		
Responsible Person's Name:		Responsible Person's Signature:
CSLB License:	Date Signed:	Position with Company or Title:

Construction Waste Management Worksheet (4 Lbs. per Sq. Ft. Method) - CW 5

Project Name:									**Date:**	**Page of**
Project Location:									**Completed By:**	
Project Manager:										
Waste Hauler:									**Signature:**	
	A		**B**		**C**	**D**		**E**		
	Insert weight (Lbs.) into proper category below					**Total Area of Project* (Square Feet)**		**Total Lbs. per Square Foot**	**Notes:**	
Waste Material Type	**Waste Generated**		**Recycled and/or Reused**		**Net Waste**					
Asphalt		-		=						
Asphalt Shingles		-		=						
Brick (broken)		-		=						
Cardboard		-		=						
Carpet/Carpet Pad		-		=						
Concrete		-		=						
Gypsum Board Drywall		-		=						
Masonry		-		=						
Metals		-		=						
Pallets		-		=						
Plastic		-		=						
Wood (engineered)		-		=						
Wood (solid sawn)		-		=						
Office Waste		-		=						
Other		-		=						
Other		-		=						
Other		-		=						
Total:		-		=		÷		=		

Step 1 - Insert weight totals into Columns A and B where appropriate and total columns.
Step 2 - Subtract Column B total from Column A total and insert difference into Column C total (Net Waste).
Step 3 - Divide Net Waste (Column C) total by Project Area (Column D) to find the net weight of construction waste per Sq. Ft.
Step 4 - Insert result into Column E. If result is 4 lbs. or less per sq. ft., compliance with 50 percent waste reduction requirement is achieved.
For additional instructions and information, please see reverse.
*Area of project also includes garages, breezeways, and attached roof structures (covered patios, etc.)

Instructions for 4 Lbs. per Sq. Ft. Method:

- Enter weight of construction waste materials (in Lbs.) under Waste Generated (Column A).
- Enter construction waste materials (in Lbs.) that are to be recycled or reused under Recycled and/or Reused (Column B).
- Subtract amounts in Column B from amounts in Column A and enter the difference under Net Waste (Column C).
- Add the amounts in each column (A, B, and C) and enter these sums into Total boxes.
- Insert project square footage into Column D Total box.
- Divide Net Waste (Column C) Total by Project Area (Column D) to find the net weight of construction debris/waste per Sq. Ft.
- Insert result into Column E. If the result is 4 lbs. or less per square foot, compliance with the construction waste reduction requirement of at least 50 percent per Section 4.408.1 has been achieved.
- When more than one worksheet is used, transfer the data onto the 4 Lbs. per Sq. Ft. Summary Worksheet at the completion of the project.

Examples of weights and volumes of some typical construction waste materials*

Material	Range of pounds per cubic yard	Typical pounds per cubic yard	Typical cubic yards per ton
Asphalt roofing material	250-460	360	5.5
Asphalt - paving	1300-2200	1750	1.1
Cardboard	70-135	85	23.5
Concrete	1300-2200	1750	1.1
Gypsum Drywall	315-470	400	5
Metals	220-1940	540	3.7
Wood	200-540	499	5

***** Source: Sacramento Regional Solid Waste Authority

Standard Conversions: 1 cubic yard equals 27 cubic feet
1 ton equals 2000 pounds

4 Lbs. per Sq. Ft. Summary Worksheet - CW 6

Project Name:									**Date:**	
Project Location:										
Project Manager:										
Waste Hauler:										
	A		**B**		**C**	**D**		**E**		
	Insert weight (Lbs.) into proper category below					**Total Area of Project* (Square Feet)**		**Total Lbs. per Square Foot**	**Notes:**	
Worksheets by page #	**Waste Generated**		**Recycled and/or Reused**		**Net Waste**					
Worksheet 1		-		=						
Worksheet 2		-		=						
Worksheet 3		-		=						
		-		=						
		-		=						
		-		=						
		-		=						
		-		=						
		-		=						
		-		=						
Grand Total:		-		=		÷		=		

Step 1 - Insert totals from 4 Lb. per Sq. Ft. worksheets into Columns A, B, and C.
Step 2 - Add each column down and enter grand total in boxes provided
Step 3 - Subtract Column B grand total from Column A grand total and insert difference into Column C grand total box.
Step 4 - Divide Column C grand total by the area of the project (Column D) to find the total net construction waste in Lbs. per Sq. Ft.
Step 5 - Insert total into Column E. If total is 4 lbs. or less per sq. ft., compliance with 50 percent waste reduction requirement is achieved.

Certification:

The signature below represents that the information provided on this form is true and correct and certifies that I have tracked construction waste during the course of this project, and that the total net waste generated by this project is 4 lbs. per sq. ft. or less.

Company Name: (general contractor, subcontractor, or homeowner)		
Responsible Person's Name:		Responsible Person's Signature:
CSLB License:	Date Signed:	Position with Company or Title:

Construction Waste Management Plan (CWMP) Acknowledgment - CW 7

Project Name:	
Project Location:	
Project Manager:	
Waste Hauler:	
Facility:	

The project foreman for each subcontractor and their suppliers that will be performing any work on this site will receive and read a copy of the Construction Waste Management Plan.

By signing below, I acknowledge that I have read the CWMP for this project and agree to my responsibilties to follow the procedures in this plan.

Date	Company	Foreman Name	Signature