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General Construction Project Standards

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Abstract:

This specification establishes a standard of quality for the construction of Customer facilities.

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PART 1.0 GENERAL

1.1 RELATED DOCUMENTS

Procurement documents and general provisions of the Contract
General and Supplementary Conditions and Specifications

1.2 SUMMARY

Work includes procurement procedures, work covered by Contract Documents, work restrictions and use of premises.

See Environmental Protection Standards

See Temporary Facilities and Control Standards

1.3 LEADERSHIP IN ENERGY AND ENVIRONMENTAL DESIGN (LEED)

See Sustainable Design Standards.

1.4 CODES AND ORDINANCES

The Company shall comply with all currently adopted codes, ordinances, laws and regulations applicable to the work. The Company shall be fully responsible for any results of carelessness or violations in this respect, and shall hold the Customer harmless from any damage. Nothing in the specifications and drawings shall be construed to permit work not in complete conformance with any national, state or local codes or ordinances.

1.5 REFERENCES

General:

The Company shall comply with the applicable provisions of the referenced standards except as modified by governing codes and the Contract Documents. Where a recommendation occurs in the referenced standards, it shall be considered mandatory. In the event of conflict, the more stringent standard or requirement shall govern.

1.6 SAFETY AND HEALTH STANDARDS

The Company shall comply with the Federal safety orders as set forth in OSHA and comply with all applicable procedures as outlined in Environmental Protection Standards.

1.7 FIRE SAFETY

Existing building sites:

The Company shall do all things reasonably necessary to preserve the capability of protecting interior building areas from perils of fire. Disturbance of existing fire protection must be minimized; sprinkler systems in adjacent areas shall remain intact and functioning as much as possible. Those systems in adjacent areas that are supplied by a source common to the shutdown system in the construction site shall be restored to service as quickly as possible and shall not remain out of service beyond the end of the work shift period.

•

- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]

New building sites:

The Company shall do all things reasonably necessary to ensure delivery of an adequate and reliable water supply to the construction site for fire protection. Prior to the time exterior walls and roofs are erected, make available for use [REDACTED]

Notify the Project Manager 48 hours in advance of any connections.

The Company shall do the following and all other things reasonably necessary to protect the work from the hazards of fire and wind.

- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]

Notification:

The Company shall provide the Customer prior notification of work that will be performed on fire protection systems. Only Company personnel may take out of service and restore to service [REDACTED]

1.8 FURNISHED PRODUCTS

The Company will furnish products indicated - the Work includes [REDACTED]

1.9 SYSTEM DESCRIPTION

See applicable contract design requirements and performance requirements

1.10 SUBMITTALS

Product Data: Submit for action.

The Company shall review manufacturer's literature and installation instructions for [REDACTED]

Shop Drawings: Submit for action.

The Company shall prepare shop drawings for the fabrication and installation of the Work. Details shall be not less than [REDACTED]

Samples: Submit for action.

The Company shall review sufficient samples to establish [REDACTED]

Calculations: Submit for information.

Quality Assurance/Quality Control Submittals: Submit for information, as required:

[REDACTED]

Document Review:

The Company shall prepare a written statement signed by the Project Manager that the Contract Documents, shop drawings and product data have [REDACTED]

Closeout Submittals: Submit for Owner's documentation, as required:

[REDACTED]

1.11 QUALITY ASSURANCE

Definition of Qualified Installer:

5 years experience in the installation of [REDACTED]

Regulatory Requirements:

The Company shall comply with applicable requirements of the laws, codes, and regulations of Responsible Authorities (RA). Obtain necessary approvals from RA's.

Pre-Installation Meetings:

Before the start of Work, Company representatives shall meet at the Project site to review [REDACTED]

1.12 DELIVERY, STORAGE AND HANDLING

Packaging, Shipping, Handling and Unloading: As required

Storage and Protection: As required

1.13 WARRANTY

Submit in Customer's documentation.

Warranty shall be [REDACTED]

1.14 MAINTENANCE

As required to include required Extra Materials.

1.15 EMERGENCY POINT OF CONTACT

The Company shall provide at the time of award of contract an emergency telephone number where the Company can be contacted 24 hours a day.

PART 2.0 PRODUCTS

2.1 MANUFACTURERS

All articles, material, and equipment shall [REDACTED]

2.2 MATERIALS

The Company shall provide all new materials required for a complete and operable facility. No materials will be supplied unless [REDACTED]

2.3 SURPLUS MATERIALS AND EQUIPMENT

Existing materials and equipment that have been removed and are in reusable condition shall [REDACTED]

Salvageable materials include, but are not limited to, [REDACTED]

Company owned construction materials and/or equipment or construction declared surplus but not in reusable condition, as determined by the Project Manager, shall [REDACTED]

The Company is responsible for loading and unloading all materials. Only Company personnel shall [REDACTED]

Refer to Environmental Protection Standards for any construction materials or equipment suspected to contain [REDACTED]

2.4 FIXED ASSET EQUIPMENT

Fixed asset items are identified by Company tags or labels.

Fixed asset equipment include, but are not limited to, [REDACTED]

Fixed asset equipment shall [REDACTED]

Refer to Environmental Protection Standards for any construction materials or equipment suspected to contain [REDACTED]

2.5 FINISHES

Whether or not specifically required by other construction documents, [REDACTED]

2.6 SOURCE QUALITY CONTROL

Add requirements as necessary.

2.7 MONITORING ACTIVITIES

The Company will furnish Customer personnel with access to the Work, materials and facilities required to monitor the Work and provide [REDACTED]

PART 3: EXECUTION

3.1 GENERAL

Edit the following as required.

Manufacturer's Instructions:

Prepare substrates, apply primers and install (erect, apply) the work, including (equipment, components, and) accessories according to [REDACTED]

The Company shall not allow the use of non-company equipment such as [REDACTED]

The Company shall furnish all equipment necessary for [REDACTED]

Coordination of Work:

The Company shall determine peculiarities and limitations of the area of work. Exercise due care to ensure [REDACTED]

Refer to architectural drawings and industrial engineering layouts for [REDACTED]

Coordinate work with that of others to produce [REDACTED]

Maintain minimum 3 ft. 6 in. of clear space in front of [REDACTED]

Coordinate among trades to achieve required clearances and locations. Make changes to the work as required. Required changes shall be submitted to the Customer for concurrence.

Remove and reinstall work that interferes with [REDACTED]

The Company shall plan work to avoid potential delays. Furnish a CPM schedule and update weekly with [REDACTED]

Modification of New and Existing Construction:

Do all cutting, fitting and patching required to adapt to site conditions and as required to [REDACTED]

Lead-based paints have been used on buildings and metal structures because of their durability and corrosion resistance. Buildings and metal structures may be coated with lead-based paint. Any demolition work of painted surfaces must be performed in conformance to OSHA Lead in Construction Standard,

Title 8, CCR Section 1523.1

Equipment and Operations Noise:

Adequately muffle construction equipment to prevent excessive noise. Conduct construction operations to avoid [REDACTED] Where the use of any of the following tools is required, limit operation of such tools in occupied buildings to other than regular working hours.

[REDACTED]

Prior to start of any work in the affected area, clear with Project Manager as to when the area will be available and at what time the work may be accomplished.

Gasoline or propane powered equipment shall not [REDACTED]

[REDACTED]

Dust Control:

During construction, keep dust to a minimum and under control. Refer to Environmental Protection Standards. Where walls or floors (non-hazardous materials) are removed, cut or installed, [REDACTED]

[REDACTED]

Existing Services:

Where existing utility, electrical or other services are temporarily disconnected because of demolition or other construction activity, they shall [REDACTED]

[REDACTED]

3.2 USE AND CARE OF PREMISES

General

The Company shall be responsible, as far as the operations are concerned, for the care and preservation of [REDACTED]

[REDACTED]

Protection of equipment:

The Company and each subcontractor identified with the contract that may have work to perform in any part of the premises in which mechanical apparatus and equipment of fixtures of any sort are installed, or in the process of being installed, shall [REDACTED]

[REDACTED]

Welding and open flame operations:

Take special precaution at all times against fire. Advise the Project Manager 48 hours prior to start of any [REDACTED]

Sewers and drains:

The Company is responsible for preventing hazardous or non-sewerable materials from spills or getting into sewers, drains, and catch basins at all times during construction. This includes [REDACTED]

Existing utilities:

Utility and/or service lines shall not [REDACTED]

Temporary loadings of floors and roofs:

Temporary floor or roof loadings for the storage of materials, equipment, lifting devices, and like items, or transporting of material or equipment across a floor or roof shall not [REDACTED]

For transporting of heavy materials or equipment across the floor or roof, the Company shall [REDACTED]

This shall include [REDACTED]

3.3 INSTALLATION

Anchors and Fastenings:

The Company shall determine the location and depth of existing underfloor cells of electrical and communications systems before drilling holes or installing powder-actuated fasteners in concrete floors. Check as-built drawings and perform a field survey of the area. The headers and ducts of such systems have shallow embedment in the concrete and must not [REDACTED]

Attention is specifically directed to the following operations where violations to the above may occur.

- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]

Drilling or other penetrations of flutes in metal decking from the underside is [REDACTED]

[REDACTED]

3.4 **FIELD QUALITY CONTROL**

Inspection:

The Company shall make a close inspection of materials delivered to the project and promptly [REDACTED]

[REDACTED]

3.5 **MONITORING ACTIVITIES**

The Company will furnish Customer personnel with access to the Work, materials and facilities required to monitor the Work and provide [REDACTED]

[REDACTED]

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SAFETY PROGRAM

Origination Date: (month year)

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Date:	Latest Revision Date
Project:	Customer, Unique ID, Part Number
Document Status:	Draft, Redline, Released, Obsolete

Abstract:

This document describes the Company's safety program.

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1.0 RESPONSIBILITIES

1.1 SAFETY DIRECTOR

Education/Orientation:

- [REDACTED]
- [REDACTED]
- [REDACTED]

Enforcement:

- [REDACTED]

Execution of Work:

- [REDACTED]

Inspection/Correction:

- [REDACTED]
- Insure that any reported unsafe condition, hazard or potential hazard will be:
 - [REDACTED]
 - [REDACTED]
 - [REDACTED]

Safety Meetings/Training:

- [REDACTED]

1.2 FOREMAN

Execution of Work:

- [REDACTED]
- [REDACTED]

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- [REDACTED]
- [REDACTED]

Hazard Communication:

- [REDACTED]

Injuries/Accidents:

- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]

Inspection/Correction:

- [REDACTED]
- [REDACTED]
- Insure that any visible or reported unsafe condition, hazard or potential hazard is:
 - [REDACTED]

Reporting:

Following procedures and/or Contractor procedures, investigate and report all:

- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]

Safety Meetings/Training:

- [REDACTED]
- [REDACTED]
- [REDACTED]

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- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]

1.3 ALL EMPLOYEES

Accidents/Injuries:

- [REDACTED]

Education:

- [REDACTED]

Inspection:

- [REDACTED]

Learn the location of:

- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]

Safety Meetings:

- [REDACTED]

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2.0 SAFETY RULES

2.1 General

Alcohol/Illegal Drugs:

- [REDACTED]
- [REDACTED]
- [REDACTED]

Emergency Procedures and Facilities:

- [REDACTED]
- [REDACTED]

Hazard Reporting:

- [REDACTED]
- [REDACTED]

Inspection of Equipment:

- [REDACTED]
- [REDACTED]

Know the location of:

- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]

Operating Equipment:

- [REDACTED]

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Personal Conduct:

- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]

2.2 BATTERY CHARGING

General Rules:

- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]

2.3 CRANES DERRICKS, AND HOISTING EQUIPMENT

- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]

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- [REDACTED]

Set-up:

- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]

2.4 ELECTRICAL

General Rules:

- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]

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- [REDACTED]

2.5 FALL HAZARDS

Floor and Wall Openings:

- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]

Other Fall Prevention Rules:

- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]

Other Safety Devices to Prevent Falls:

- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]

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2.6 FIRE PREVENTION AND PROTECTION

Fire Extinguishers:

- [REDACTED]
- [REDACTED]
- [REDACTED]
- Learn what the right type of extinguisher is for different types of fires:
 - Water-Under-Pressure extinguishers (Class A Fire) to be used on [REDACTED]
 - Dry Chemical - CO₂ - Foam - Halon extinguishers (Class B Fire) to be used on [REDACTED]
 - Dry chemical - CO₂ - Halon (Class C Fire) to be used on [REDACTED]
- [REDACTED]
- [REDACTED]

Housekeeping:

- [REDACTED]
- [REDACTED]

Other Safety Precautions:

- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]

Storage Facilities:

- [REDACTED]
- [REDACTED]
- [REDACTED]

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- [REDACTED]

Storage Locations:

- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]

2.7 GOOD HOUSEKEEPING

General Housekeeping:

- [REDACTED]
- [REDACTED]
- [REDACTED]

2.8 HAND AND POWER TOOLS

Hand Tools:

- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]

Power Tools:

- [REDACTED]
- [REDACTED]

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- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]

2.9 LADDERS

Inspection:

- [REDACTED]
- [REDACTED]

Set-up:

- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]

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- [REDACTED]

2.10 LASER EQUIPMENT

General Safety Rules:

- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]

2.11 MATERIALS HANDLING AND RIGGING

Material Handling-Manual:

- [REDACTED]
- Follow good lifting practices:
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]

Material Handling - Rigging:

- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]

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- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]

Storage of Materials:

- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]

2.12 PERSONAL PROTECTIVE EQUIPMENT AND APPAREL

Eye, Ear and Face Protective Equipment:

- [REDACTED]
- [REDACTED]
- [REDACTED]

Gloves:

- [REDACTED]

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Hard Hats:

- [REDACTED]
- [REDACTED]
- [REDACTED]

Shoes:

- [REDACTED]

2.13 SCAFFOLDS

General Safety Information:

- [REDACTED]
- [REDACTED]
- [REDACTED]

2.14 SIGNS, SIGNALS AND BARRICADES

Signs, Signals and Barricades:

- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]

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- [REDACTED]
- [REDACTED]

Bracket Scaffold:

- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]

Mobile Scaffolds:

- [REDACTED]
- [REDACTED]

Tubular Welded Frame Scaffold (Safeway Type)

- [REDACTED]
- [REDACTED]
- [REDACTED]

Tyro-point Suspension (Swinging) and Single-point Suspension (Spider-type) Scaffold:

- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]

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2.15 WELDING AND CUTTING

Fire Prevention:

- [REDACTED]
- [REDACTED]
- [REDACTED] to light a torch. Don't use matches, cigarette lighters, cigarettes or hot work.
- [REDACTED]
- [REDACTED]

Inspection/Use of Equipment:

- [REDACTED]
- [REDACTED]
- [REDACTED]

Personal Protection:

- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]

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Storage/Placement of Equipment:

- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]

3.0 FALL PROTECTION

The Company has implemented a fall protection plan to protect personnel from falls. The Company is firmly committed to [REDACTED]

The site specific safety plan will [REDACTED]

	DESCRIPTION	APPLICATION
PART 1	[REDACTED]	[REDACTED]
PART 2	[REDACTED]	[REDACTED]
PART 3	[REDACTED]	[REDACTED]
PART 4	[REDACTED]	[REDACTED]
PART 5	[REDACTED]	[REDACTED]
PART 6	[REDACTED]	[REDACTED]

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PART 1 - OSHA Subpart R

PART 1.1 1926.70 FLOORING REQUIREMENTS

(a) Permanent flooring - skeleton steel construction in tiered buildings.

(1) [REDACTED]

(2) [REDACTED]

(b) Temporary flooring - skeleton steel construction in tiered buildings.

(1)(i) [REDACTED]

(ii) [REDACTED]

(iii) [REDACTED]

(2)(i) [REDACTED]

(ii) [REDACTED]

(iii) [REDACTED]

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(c) Flooring - other construction

- (1) [REDACTED]
- (2) [REDACTED]

PART 1.2 1926.751 STRUCTURAL STEEL ASSEMBLY

(a) During the final placing of solid web structural members, the load shall [REDACTED]

(b) Open web steel joists shall [REDACTED]

- (c)
 - (1) [REDACTED]
 - (2) [REDACTED]
 - (3) [REDACTED]
- (d) [REDACTED]

PART 1.3 1926.752 - BOLTING, RIVETING, FITTING-UP AND PLUMBING-UP.

- (a) General Requirements or carrying rivets, bolt displacement when aloft.
 - (1) [REDACTED]
 - (2) [REDACTED]
 - (3) [REDACTED]
 - (4) [REDACTED]
- (b) BOLTING
 - (1) [REDACTED]
 - (2) [REDACTED]

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(c) RIVETING

- (1) [REDACTED]
- (2) [REDACTED]
- (3) [REDACTED]

(d) PLUMBING-UP

- (1) [REDACTED]
- (2) [REDACTED]
- (3) [REDACTED]
- (4) [REDACTED]

(e) [REDACTED]

(f) [REDACTED]

(g) [REDACTED]

(h) [REDACTED]

(i) [REDACTED]

(j) [REDACTED]

(k) [REDACTED]

PART 2 - FALL PROTECTION STANDARDS AND REQUIREMENTS

Clothing and Attire

All employees shall have proper attire: [REDACTED]

Employee Qualifications

Employees should work only in areas or at levels within their training, experience and ability. The most hazardous and difficult tasks will [REDACTED]

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General Site Conditions

Site should [REDACTED]

Ladders

Ladders should [REDACTED]

Lifts

Employees should [REDACTED]

Material Staging

All material to be unloaded and staged to [REDACTED]

Minimize Employees

Minimize number of employees working in exposed areas. Only the minimum employees required to safely perform an exposed task.

Narrow or Small Surfaces

[REDACTED]

Personal Fall Protection Equipment

[REDACTED]

Precast and miscellaneous steel

[REDACTED]

Prefabricate

[REDACTED]

Recognition

[REDACTED]

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Safety Continuing Education

[Redacted]

Secured Members

[Redacted]

Site Specific Pre-Construction Meeting

[Redacted]

Steel/Joist

[Redacted]

Tools and Equipment

[Redacted]

Vertical Movement

[Redacted]

Walking Surfaces

[Redacted]

Weather

[Redacted]

PART 3 - SPECIFIC FALL CRITERIA

The Company requires the use of conventional fall protection such as

[Redacted]

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See project specific fall protection plan for additional information (Part IV)

PART 4 – FALL PROTECTION

PART 4.1 CONTROLLED DECK ZONES (CDZ) AND CONTROLLED ACCESS ZONES (CAZ)

- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]

PART 4.2 FALL PROTECTION SYSTEMS

- [REDACTED]
- [REDACTED]
- [REDACTED]
- Fall protection systems [REDACTED] may be utilized in controlled work environments provided the following is established:
 - [REDACTED]
 - [REDACTED]
 - [REDACTED]
 - [REDACTED]
 - [REDACTED]

The above items to be addressed in site specific safety plan.

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[REDACTED]

Retractable Lifelines

[REDACTED]

[REDACTED]

[REDACTED]

Horizontal and Vertical Lifelines

All components of personal fall arrest systems must [REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

Positioning Devices

Devices must [REDACTED]

Positioning devices must [REDACTED]

[REDACTED]

PART 4.5 SAFETY MONITORING SYSTEMS

A competent person trained to monitor the safety of other employees must be designated.

The monitor is responsible for the following:

[REDACTED]

- [REDACTED]

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- [REDACTED]

Every individual involved with or exposed to a safety monitoring system shall

Mechanical equipment cannot [REDACTED]

No employee, other than an employee engaged in roofing work or an employee covered by a fall protection plan, shall [REDACTED]

Use of safety monitoring systems requires [REDACTED]

PART 4.6 SAFETY NET SYSTEMS

- [REDACTED]
- [REDACTED]

Safety net systems:

- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]

PART 4.7 WARNING LINE SYSTEMS

Employees engaged in low slope roofing activities must be protected from fall hazards by guardrail systems, safety net systems, personal fall arrest systems or one of the following:

- [REDACTED]
- [REDACTED]

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- [REDACTED]
- [REDACTED]

The use of a safety monitoring system alone is [REDACTED]
[REDACTED]

The warning line must [REDACTED]
[REDACTED]

The warning lines must [REDACTED]
[REDACTED]

Warning line systems can [REDACTED]
[REDACTED]

Warning lines must [REDACTED]

When mechanical equipment is used, the warning lines must [REDACTED]
[REDACTED]

PART 5 - SENRAC (DRAFT ONLY)

The Company will continue to promote most SENRAC requirements during [REDACTED]
[REDACTED]
[REDACTED]

PART 5.1 ANCHOR BOLT REQUIREMENTS

926.755 Anchor bolts. [REDACTED]
[REDACTED]
[REDACTED]

(2) [REDACTED]
[REDACTED]
[REDACTED]

(b) [REDACTED]

(1) [REDACTED]
[REDACTED]

(2) [REDACTED]
[REDACTED]

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(3) [REDACTED]

PART 5.2 APPROVAL TO BEGIN STEEL ERECTION

1926.752 Site layout, site-specific erection plan and construction sequence

(a) [REDACTED]

(1) [REDACTED]

(2) [REDACTED]

PART 5.3 COLUMN SPLICES

1926.756 Beams and columns

(d) [REDACTED]

(e) [REDACTED]

APPENDIX F TO SUBPART R INSTALLATION OF PERIMETER SAFETY CABLES:
NON-MANDATORY GUIDELINES FOR COMPLYING WITH 1926.756(f) TO PROTECT
THE UNPROTECTED SIDE OR EDGE OF A WALKING/WORKING SURFACE.

[REDACTED]

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PART 5.4 DOUBLE CONNECTIONS

1926.756 Beams and columns

(c) [REDACTED]

PART 5.4.1 CONNECTION DEFINITIONS

Clipped connection means [REDACTED]

Double connection means [REDACTED]

Seat means [REDACTED]

PART 5.5 PERIMETER SAFETY CABLES

1926.756 Beams and columns

(e) [REDACTED]

(f) [REDACTED]

(2) [REDACTED]

(3) [REDACTED]

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1926.760 Fall protection

- (e) [REDACTED]
[REDACTED]
[REDACTED]
(1) [REDACTED]nd
(2) [REDACTED]
[REDACTED]

PART 5.6 POSITIVE ATTACHMENT OF MEMBERS DURING PLACEMENT

1926.756 Beams and columns.

- (a) General. [REDACTED]
[REDACTED]
[REDACTED]
(b) [REDACTED]
[REDACTED]
[REDACTED]

JOIST SPANNING 40 FOOT AND OVER REQUIRE POSITIVE TO THEIR SUPPORTS ATTACHMENT

[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]

PART 5.7 ROOF AND FLOOR OPENINGS

1926.754 Structural steel assembly (e) decking

(2) Roof and floor openings. Metal deck at roof and floor openings shall be installed as follows:

- (i) [REDACTED]
[REDACTED]
(ii) [REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]

PART 5.8 SITE LAYOUT AND ACCESS

1926.752(b1 Site Layout. The controlling contractor shall provide and maintain the site layout as follows:

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(1) [REDACTED]

(2) [REDACTED]

(c) [REDACTED]

PART 5.9 SITE SPECIFIC ERECTION PLAN

1926.752(d) Site-specific erection plan. [REDACTED]

PART 5.10 SLIPPERY SURFACES

[REDACTED]

PART 5.11 STRUT JOIST BOTTOM CHORD STABILIZER PLATE

1926 757 Omen web steel joist.

(a) [REDACTED]

(4) [REDACTED]

PART 5.12 TRIPPING HAZARDS

1926.754 Structural steel assembly. (c) [REDACTED]

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[REDACTED]

PART 5.12.1 SHEAR CONNECTOR DEFINITION

Shear connector means [REDACTED]

PART 6 OWNER REQUIREMENTS

PART 6.1 FALL PROTECTION PLAN

- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]

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4.0 HAZARDOUS COMMUNICATIONS

4.1 LABELING

Warning labels giving essential information must [REDACTED]

Label also any container into which you transfer the material. This includes [REDACTED]

4.2 OSHA INSPECTIONS

- [REDACTED]
- [REDACTED]

4.3 WHAT IS HAZ-COM?

"Right to Know"

Hazard Communication, Haz-Com or "Right to Know" all refer to [REDACTED]

Here is a partial list of materials, considered hazardous, common to construction sites:

- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]

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- [REDACTED]
- [REDACTED]

To meet the standards, the Company has written a program and obtained technical information from [REDACTED]

4.4 WHAT IS OSHA?

- [REDACTED]
- [REDACTED]

5.0 [REDACTED] SAFETY DATA SHEETS

- [REDACTED]
- [REDACTED]

[Refer to the location of your SDS's – make it the same from site to site as a standard]

CONSTRUCTION ENVIRONMENTAL PROTECTION STANDARDS

Origination Date: (month year)

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Abstract:

This standard applies to all work where hazardous materials may be encountered or used during the construction process.

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DOCUMENT CHANGE RECORD

Issue	Item	Reason for Change

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PART 1: GENERAL

1.1 RELATED DOCUMENTS

Procurement documents, including General and Supplementary Conditions and other Standards apply.

1.2 SUMMARY

This standard applies to all work where hazardous materials may be encountered or used during the construction process. These requirements are not intended to be all inclusive but are meant to emphasize existing Company procedures and city, county, regional, state or federal ordinances, laws and regulations applicable to the work. This standard does not relieve the Company or its subcontractors from complying with all appropriate OSHA and other safety regulations pertaining to the work but not listed herein.

Non-conformance to Environmental Protection Standards is considered to be a serious offense and may be subject to severe fines and criminal prosecution. All construction projects need to be coordinated with Company staff to allow for the protection of the environment and for early identification of any special environmental problems. Requirements will vary from project to project. If any doubt as to whether any Environmental Protection Standard applies to work, contact the Project Manager immediately for assessment. The Company shall be liable for any losses, expenses, penalties, etc. incurred by the Customer as a result of the Company's failure to comply with applicable standards.

Work Specified Elsewhere:

- General Construction Project Standards.
- Removal & Disposal of Asbestos Containing Material Standards.
- Temporary Barriers and Enclosures Standards.
- Cleaning and Waste Management Standards.
- Interior and Exterior Painting Standards.

1.3 LEADERSHIP IN ENERGY AND ENVIRONMENTAL DESIGN (LEED)

See Sustainable Design Standards.

1.4 REFERENCES

General:

The Company shall comply with the applicable provisions of the referenced standards except as modified by governing codes and the Contract Documents. Where a recommendation occurs in the referenced standards, it shall be considered mandatory. In the event of conflict, the more stringent standard or requirement shall govern.

NTS: Definitions are used when terms are not defined in reference standards.

1.5 SUBMITTALS

Product Data - Submit for Project Manager Action:

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Submit manufacturer's literature and installation instructions for each material and accessory, clearly notating specified requirements. Modify shop drawing scale as necessary.

Closeout Submittals - Submit in Owner's documentation:

[REDACTED]

1.6 QUALITY ASSURANCE

Definition of Qualified Installer:

5 years experience in the installation of [REDACTED]

Regulatory Requirements:

The Company shall comply with applicable requirements of the laws, codes and regulations of Responsible Authorities (RA). Obtain necessary approvals from RA's.

Pre-Installation Meetings:

Before the start of Work, Company representatives shall [REDACTED]

[REDACTED]

1.7 WARRANTY

Submit in Customer's documentation:

Warranty shall be for [REDACTED]

[REDACTED]

PART 2: PRODUCTS

2.1 ASBESTOS

Asbestos is most commonly found in the following applications:

- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]

Friable asbestos containing material is defined as any material that

Asbestos containing material that is friable and contains greater than or equal to 1% asbestos by weight is classified as "Hazardous Waste" when it is to be disposed. It is not to be

Contractors will fully comply with Air Quality Management District (AQMD) Regulations; especially,

Upon completion of the asbestos abatement project, an inspection shall

2.2 HANDLING OF HAZARDOUS MATERIALS AND WASTE

A Safety Data Sheet () must be provided to the Project Manager, who will provide a copy to

All job related hazardous waste will

All job related hazardous waste must

If a Company supplied container or tank is approved for hazardous waste use, it must

Each container used for hazardous wastes must be labeled in compliance with NFPA Standard 704 and applicable local regulatory requirements, e.g., California Code of Regulations, Title 8, Section 5192 - Hazardous Waste Operations and Emergency Response and Section 5194 - Hazard Communication (substitute your local regulation). Labeling must include:

-

- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]

Labels on the container itself must include [REDACTED]

[REDACTED] Specific information that must be on the

“Internal Manifest” includes:

- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]

All hazardous waste and/or hazardous materials being stored on Company property must [REDACTED]

[REDACTED] Storage security must [REDACTED]

Weekly documentation of inspections of all job related hazardous materials/hazardous waste storage areas and containers for leaks or other hazardous is required. A record must [REDACTED]

The Company must provide each employee or subcontractor on site with information about what to do in case of emergency or chemical spill. This information will include [REDACTED]

2.3 CONCRETE OPERATIONS

Handle wet concrete and concrete cutting waters in such a manner as to prevent discharge to the sanitary sewer and storm drains. Blocking-off or plugging drains in the vicinity may [REDACTED]

Do not discharge residual concrete and concrete/asphalt cutting effluent from equipment and machinery to the storm or sanitary sewer systems. Discharge wash waters into [REDACTED]

[REDACTED]
[REDACTED] If containers are used, [REDACTED]

Postpone outdoor concrete work if [REDACTED]

2.4 ACQUISITION AND DISPOSAL OF WASTE CONTAINERS

Waste containers may be acquired from the HazMat Operations through the Project Manager. Environmental Procedures

If a Company-supplied container or tank is approved for hazardous waste use, it must [REDACTED]

[REDACTED] All the Company supplied waste containers must [REDACTED]

2.5 MATERIAL STORAGE

Store construction, demolition and excavation materials ([REDACTED]) under a roof or structure or [REDACTED]

[REDACTED]
[REDACTED] A diversion ditch may also be used to [REDACTED]

2.6 EQUIPMENT INSTALLATION-REMOVAL-MODIFICATION

The Company will arrange for any necessary pollution discharge permits or regulatory agency permit notifications for equipment being installed, moved, modified or removed by a Company. The Company should not [REDACTED]

2.7 WOOD PRESERVATIVES AND OTHER SURFACE TREATMENTS

Apply only as much of the chemical as the wood can absorb or [REDACTED]

2.8 PAINTS-COATINGS-ADHESIVES

Aerosol spray paints may only be used if they [REDACTED]

Waste solvent, coatings and solvent contaminated rags, wipes and aerosol cans must [REDACTED]

Clean-up of brushes, trays, etc., used with water based paints may be done in [REDACTED]

Clean-up of all coating equipment must be done in [REDACTED]

Use impermeable ground cloths during paint scraping operations, such as [REDACTED]

If spray painting, use temporary scaffolding to hang drop cloths or draperies to shield personnel from the wind and to collect overspray. Arrange the draperies to [REDACTED]

2.9 MONITORING ACTIVITIES

The Company will furnish Customer personnel with access to the Work, materials and facilities required to monitor the Work and provide [REDACTED]

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PART 3: EXECUTION

3.1 **BROKEN/RUPTURED UNDERGROUND PIPES CONTAINING LIQUID**

For broken lines that contain anything other than potable water, the Company shall immediately notify both the local Fire Department and the Project Manager and initiate the following actions immediately:

- [REDACTED]
- [REDACTED]

3.2 **PARTICLES-SPARK EMISSIONS TO THE AIR**

The official method for quantifying visible emissions requires special training and certification. To avoid violating the laws regarding air pollution emissions, a conservative general policy has been adopted:

[REDACTED]

For processes where visible dry plumes may be expected on a regular basis, such as [REDACTED]

[REDACTED]

No equipment, process or operations shall emit [REDACTED]

[REDACTED]

Operations, processes or equipment use shall not [REDACTED]

[REDACTED]

No equipment, process or operation shall emit [REDACTED]

[REDACTED]

The Company must ensure that no emissions are re-entrained into the buildings occupied by employees.

3.3 **DEWATERING OF EXCAVATION AND SUMPS**

The Project Manager must be notified if it is likely that there will be a need to remove/dispose of ground water prior to excavation or construction and must be given [REDACTED]

[REDACTED]

Construction-related ground water should not be drained or pumped to a storm sewer. Discharge of ground water to the sanitary sewer will always be [REDACTED]

[REDACTED]

All pumped ground water will require temporary storage (tank, barrels, etc.) to allow [REDACTED]

Arrangements must be made with HazMat Operations for the collected ground water to be [REDACTED]

No waste water can be discharged into the sewer connection with a pH greater than [REDACTED] or less than [REDACTED] or with a total toxic organic concentration of more than [REDACTED]

The Company must observe the initial and subsequently daily discharges from temporary storage containers to make sure the water does not [REDACTED]

All temporary storage must be labeled. Labels shall include, at a minimum:

- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]

Arrangements must be made with HazMat Operations for the sludge and/or solids that collect on the bottom of the temporary holding tank(s) to be [REDACTED]

3.4 PUMPING GROUND WATER FROM WELLS

The Company policy is to dispose of ground water pumped from wells, as part of well development or sampling, to the City sanitary sewer if possible. Sanitary sewer means [REDACTED]

All pumped ground water will require temporary storage (tank, barrels, etc.) to allow [REDACTED]

The Company must observe the initial and subsequently daily discharges to make sure [REDACTED]

All temporary storage must be labeled. Labels shall include:

- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]

Arrangements must be made with HazMat Operations for the collected ground water to be [REDACTED]

No waste water can be discharged into the sewer connection with a pH greater than [REDACTED] or less than [REDACTED] or with a total toxic organic concentration of more than [REDACTED]

The rate of discharge must be monitored and recorded daily or immediately following discharge for the duration of the permit. Written records of discharges must [REDACTED]

Arrangements must be made with the Project Manager for the sludge and/or solids that collect on the bottom of the temporary holding tank(s) to be [REDACTED]

3.5 DISCHARGE TO SANITARY SEWER

Sanitary sewer means [REDACTED]

Discharge to the sanitary sewer will always be [REDACTED]

No person shall discharge wastes to a city sanitary sewer that causes, threatens to cause or is capable of causing either alone or by interaction with other substances:

- [REDACTED]
- [REDACTED]

- [REDACTED]
- [REDACTED]
- [REDACTED]

If there is any question whether a material is allowed to be put into the sanitary sewer, contact [REDACTED]

All employees shall provide and maintain protection from accidental discharge of any materials into the sanitary sewer. In the event of any accidental discharge of any prohibited materials into the sewer, [REDACTED]

3.6 DISCHARGE TO STORM SEWER

Storm sewer means [REDACTED]

The Company shall manage each job site in such a manner to avoid discharges of [REDACTED]

The Company shall employ special precautions if rain is forecast. These precautions include:

- [REDACTED]
- [REDACTED]

The Company shall keep the working area clean every day. Sweep up [REDACTED]

3.7 EXCAVATION AND/OR DRILLING

In cases where soil contamination is known or suspected to be hazardous waste, either by historical data (known spills, releases, etc.) or by visual indication or odor during excavation and/or drilling, the excavated soil or soil cuttings must [REDACTED]

Labels shall include:

- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]

Arrangements must be made with HazMat Operations for the soil to be [REDACTED]

Unless specifically exempted by the Customer, all borings will be [REDACTED]

A special permit must be obtained for borings deeper than [REDACTED]

Special well construction requirements, such as conductive casings, may be required in certain areas of the site to prevent [REDACTED]

3.8 UNDERGROUND TANKS

Prior to the end of any job involving installation, repair or upgrading of underground storage tank, approval must [REDACTED]

3.9 DECONTAMINATION

Construction projects involving hazardous waste removal or decontamination need to be coordinated with [REDACTED]

nts will vary from project to project – a Site Safety Plan may be required prior to starting each project.

3.10 DEMOLITION

Hazardous Material/Waste:

Construction projects involving demolition of structures need to be coordinated with the Project Manager as well as HazMat Operations to allow for

[REDACTED]

Non-hazardous material/waste:

Where feasible to prevent or minimize contact with rain water during the wet season, store demolition materials on

[REDACTED]

3.11 SANDBLASTING

The Project Manager must be notified prior to any sandblasting. All abrasives used for dry, unconfined blasting shall not contain more than

[REDACTED]

After blasting, abrasives used for dry, unconfined blasting shall not

[REDACTED]

Any violation of the local Air Quality Management District (AQMD) regulations concerning abrasive blast cleaning shall

[REDACTED]

3.12 OUTDOOR SANDBLASTING

Place tarpaulin or ground cloths beneath work to capture the blasting medium and particles from the surface being cleaned. Hang tarps or drop cloths to

[REDACTED]

Clean-up frequently:

[REDACTED]

3.13 WASHING OF EXTERIOR BUILDING SURFACES

Wash water from exterior surfaces of buildings (including roofs) shall not [REDACTED]

If wash water cannot be directed to landscaping, the water shall [REDACTED]

If the wash water has been determined to be sewerable by HazMat Operations, collect (contact the Project Manager for method coordination) and pump the water to an approved sanitary sewer connection (filtration may be required for wash waters). For information on approved sanitary sewer locations, contact the Project Manager.

If the water has been determined to be non-sewerable, [REDACTED]

3.14 MONITORING ACTIVITIES

The Company will furnish Customer personnel with access to the Work, materials and facilities required to monitor the Work and provide [REDACTED]

3.15 SOLVENT CLEANING

Solvents are organic compounds that are used as [REDACTED]

Wipe-cleaning is a method of cleaning that utilizes [REDACTED]

Use of trichloroethylene (TCE) as a cleaning solvent is [REDACTED]

Solvent, including waste solvent and swabs, rags, paper or other solvent cleaning materials shall [REDACTED]

Rags and other solvent containing materials shall [REDACTED]

A total of no more than [REDACTED] of flammable solvent, such as [REDACTED] shall be allowed to evaporate to the air from a wipe-cleaning operation area in any one day and no more than [REDACTED] in any one hour. No more than [REDACTED] chlorinated solvents such as [REDACTED] may be allowed to evaporate from a wipe cleaning operation area in any one day. (substitute your local regulations here)

3.16 EQUIPMENT CLEAN-UP

Waste solvent, coatings and solvent contaminated rags, wipes and aerosol cans must [REDACTED]

Clean-up of brushes, trays, etc., used with water based paints may [REDACTED]

Both water based and solvent based coatings must be disposed of as hazardous waste.

Clean-up of all coating equipment must be done in a way that [REDACTED]

Clean-up of concrete mixing, holding, pumping or transporting equipment must be done in a way that [REDACTED]

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CONSTRUCTION SITE REMOVAL AND DISPOSAL OF ASBESTOS MATERIALS

Origination Date: (month year)

Document Identifier:	Name, Number, Unique ID
Date:	Latest Revision Date
Project:	Customer, Unique ID, Part Number
Document Status:	Draft, Redline, Released, Obsolete

Abstract:

This document establishes a standard of quality for removal and disposal of asbestos containing materials.

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REVISION LOG

Issue	Date	Comment	Author
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DOCUMENT CHANGE RECORD

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PART 1: GENERAL

1.1 RELATED DOCUMENTS

Procurement documents and general provisions of the Contract, including General and Supplementary Conditions apply to this Standard.

1.2 SUMMARY

Work Included:

Removal of any Air Quality Management District (AQMD) regulated asbestos containing materials.

Work Specified Elsewhere:

Environmental Protection Standards

Carpeting Standards

Resilient Flooring Standards

Insulation Standards

1.3 LEADERSHIP IN ENERGY AND ENVIRONMENTAL DESIGN (LEED)

See Sustainable Design Standards.

1.4 REFERENCES

General:

Comply with the applicable provisions of the referenced standards except as modified by governing codes and the Contract Documents. Where a recommendation occurs in the referenced standards, it shall be considered mandatory. In the event of conflict, the more stringent standard or requirement shall govern.

1.5 DEFINITIONS

Friable Asbestos Containing Material:

Any material that contains more than one percent asbestos and that can be crumbled, pulverized or reduced to powder when dry, by hand pressure or mechanical means (sanding, sawing, shot blasting or any other demolition or renovation techniques).

Regulated Asbestos Containing Materials (RACM):

Any friable asbestos containing material or asbestos containing material that may become friable in the course of demolition or renovation.

1.6 CONTRACTOR QUALIFICATIONS

Contractors shall be certified by the applicable State License Board to do asbestos related work.

The Contractor shall

1.7 CONTRACTOR RESPONSIBILITIES

Contractors shall be fully and totally responsible at all times for compliance with the provisions of 29 CFR 1926.1101, CCR Title 8, Section 1529 and all other local, state and federal standards as they pertain to all construction and related activities involving asbestos containing materials.

Contractors shall send written notification to the Air Quality Management District [REDACTED] at least ten working days prior to any abatement activity. Notification forms can be obtained from the AQMD. Notification must also be provided to [REDACTED]

The Contractor is to be on-site at all times during the removal and is to be knowledgeable in the National Emission Standards for Hazard Air Pollutants (NESHAP) for asbestos; additionally, [REDACTED]

The Contractor shall inspect the premises with Company personnel wherein all abatement and abatement related activities will occur prior to submitting a bid.

1.8 SUBMITTALS

Provide the following submittals no later than 10 days after contract award:

- [REDACTED]
- Project work plan to include the following:
- [REDACTED]
 - [REDACTED]
 - [REDACTED]
 - [REDACTED]
 - [REDACTED]
 - [REDACTED]
 - [REDACTED]
 - [REDACTED]
 - [REDACTED]

Submit copies of all notifications sent to the AQMD/DOSH and copies of licenses/registrations required by applicable regulations to HazMat Operations. Submit product data, [REDACTED] Safety Data Sheets ([REDACTED]), use instructions and recommendations of the manufacturers of the materials intended for use as [REDACTED]

Contractor(s) shall submit a written Site Safety Plan that establishes procedures and policies for assuring the health and safety of site personnel during all phases of the project. The Site Safety Plan shall detail information concerning:

- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]

The site safety plan shall denote on the front cover, who prepared the plan and the date it was prepared. A copy shall be kept at the project site. The site safety plan shall [REDACTED]

The Contractor is to estimate the quantity of waste generated for this project, the size and number of waste containers and submit to the Company along with the proposal and/or project work plan.

The Final Report shall be submitted no later than fifteen days after the Contractor completes the abatement work. The final report shall include the following:

- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]

Submit certification signed by an officer of the asbestos abatement contracting firm that exposure measurements, medical surveillance and worker training records are [REDACTED]

1.9 SAMPLES

Furnish samples required for testing and deliver promptly to testing agency. Costs for delivery of samples shall be borne by the Contractor. Where special preparation of samples for testing is required, the work [REDACTED]

PART 2: PRODUCTS

2.1 MATERIALS AND EQUIPMENT

Provide for segregation of incompatible [REDACTED]

Disposal drums or bins will be provided by HazMat Operations. This will be coordinated by [REDACTED]

Enclosures shall be constructed using [REDACTED]

Post warning signs, as required by Federal OSHA, 20 CFR 1926.1101 and (your State) Health and Safety Code, e.g., [REDACTED]

Upon completion of the abatement project, HazMat Operations and Contractor will ensure [REDACTED]

2.2 MONITORING ACTIVITIES

The Company will furnish Customer personnel with access to the Work, materials and facilities required to monitor the Work and provide [REDACTED]

PART 3: EXECUTION

3.1 PREPARATION OF WORK AREA

The Contractor shall post warning signs meeting the specifications of Federal OSHA and (your State), e.g., [REDACTED] at any location and approaches to a location where airborne concentrations of asbestos may exceed [REDACTED]

Signs shall be posted at a distance sufficiently far enough away from the work area to permit [REDACTED]

Under Company supervision, shut down and lock out all [REDACTED]

3.2 ISOLATION OR WORK AREA FROM OCCUPIED AREAS

The contaminated work area shall be separated from [REDACTED]
[REDACTED]

Walls shall be constructed of wood or metal framing to support barriers in all openings larger than [REDACTED]
[REDACTED]

Following completion of the construction of all polyethylene barriers and decontamination system enclosures, allow overnight settling to [REDACTED]
[REDACTED]

Damage and defects in the enclosure system are to be repaired immediately upon discovery. In all cases, the Project Manager shall be notified. If visible asbestos abatement debris is observed outside of the work area or if damage occurs to barriers at any time during the abatement activities, after barriers have been erected, work shall [REDACTED]
[REDACTED]

If air samples collected outside of the work area during abatement activities indicate airborne fiber concentrations greater than [REDACTED]
[REDACTED]

Negative pressure ventilation units shall be equipped with HEPA filters and shall be exhausted directly to the outside of the building. A pressure gauge for measuring negative pressure within the enclosure shall [REDACTED]
[REDACTED]

Careful installation, air monitoring and daily inspections shall be done by the Contractor to ensure [REDACTED]
[REDACTED]

[REDACTED] A log shall be kept of the test results and any repair/reconstruction needed.

- [REDACTED]
- [REDACTED]

- [REDACTED]

3.3 PRE START REQUIREMENTS

- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]

3.4 REMOVAL

All removal procedures shall be reviewed by HazMat Operations. Any of the following methods may be used for removal of asbestos containing mastic:

- [REDACTED]
- [REDACTED]
- [REDACTED]

Note: No solvents, except water, are to be used. Contractor to notify AQMD in writing to request approval prior to using any dry removal techniques.

Deviations from the approved procedure must [REDACTED]

3.5 FIELD QUALITY CONTROL

Assistance to the Testing Agency:

The Company and Contractor shall furnish the Testing Agency with access to [REDACTED]

3.6 CLEAN UP PROCEDURES

An approved asbestos vacuum cleaner with HEPA filter shall be used to initially clean all surfaces. All surfaces in the work area shall then [REDACTED]

- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]

If any accumulation of residue is observed, it will be assumed to be asbestos and the clean-up cycle shall be repeated. The work area shall [REDACTED]

3.7 DISPOSAL PROCEDURES

The Company shall provide disposal drums or bins - arrangements shall be made through HazMat Operations at least ten days in advance. The Company shall be responsible for offsite disposal of all asbestos-containing waste materials. The Contractor shall [REDACTED]

3.8 RE-ESTABLISHMENT OF WORK AREA AND SYSTEMS

Re-establishment of the work area shall only occur following the completion of clean-up procedures and [REDACTED]

Following the completion of clean-up procedures, the Contractor and Company shall [REDACTED]

Following the satisfactory clearances of the work area, polyethylene barriers may be removed and disposed of as asbestos-contaminated waste. The Company and Contractor shall re-establish HVAC, mechanical and electrical systems in proper working order and repair all areas of damage that occurred as a result of abatement activities.

3.9 AIR MONITORING

Area airborne fiber counts collected inside and outside of the enclosure will [REDACTED]

[REDACTED]

Sampling and analytical methods:

Phase Contrast Microscopy (PCM) will be performed using the NIOSH 7400 method and comply with CCR Title 8, Section 1529 Appendix A & B. This analysis will be carried out at the job site, or if off-site, analysis must [REDACTED]

Sample volumes:

The number and volume of air samples taken by the Contractor will be according to [REDACTED]

Sample cassettes:

Samples will be collected on 25mm cassettes as follows:

- [REDACTED]
- [REDACTED]

Laboratory testing:

The services of an accredited testing laboratory will be employed by the Contractor to perform laboratory analysis of the air samples. Verbal reports on air samples must [REDACTED]

Personal monitoring:

The Contractor is responsible for performing air monitoring to meet OSHA requirements for personnel sampling or any other purpose. Personal monitoring results are to be made available daily to HazMat Operations.

The Company reserves the right to perform air and performance monitoring at any time. The Company may take air samples at any time during or following the completion of the work, up to 48 hours after completion. Work shall not [REDACTED]

3.10 CLEARANCE SAMPLING

Where clearance sampling is required upon the completion of the clean-up procedures and the visual inspection, the Contractor, or unless otherwise noted, shall arrange for the services of a third-party Industrial Hygienist and certified testing laboratory to:

- [REDACTED]
- [REDACTED]

- [REDACTED]

Verbal results on air samples are [REDACTED]

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PROPRIETARY INFORMATION	This document expires 30 days after printing unless marked "Released". Date Printed:	Form Rev: Orig
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CONSTRUCTION SUBMITTAL STANDARDS

Origination Date: (month year)

Document Identifier:	Name, Number, Unique ID
Date:	Latest Revision Date
Project:	Customer, Unique ID, Part Number
Document Status:	Draft, Redline, Released, Obsolete

Abstract:

This document describes submittal standards for shop drawings, product data, samples and other submittals.

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PART 1: GENERAL

1.1 RELATED DOCUMENTS

Procurement documents, including General and Supplementary Conditions and other Standards apply.

1. General Construction Site Standards
2. Quality Control Standards
3. Substitution Standards
4. Execution and Closeout Standards

1.2 SUMMARY

Work includes administrative and procedural requirements for submitting Shop Drawings, Product Data, Samples and other submittals.

1.3 LEADERSHIP IN ENERGY AND ENVIRONMENTAL DESIGN (LEED)

See Sustainable Design Standards.

1.4 DEFINITIONS

Action Submittals include written and graphic information that requires responsive action.

Informational Submittals sometimes require supporting written and graphic information but do not require responsive action. Submittals may be rejected for not complying with requirements.

1.5 SUBMITTAL PROCEDURES

General:

The Company may prepare electronic copies of CAD Drawings of the Contract Drawings for use in preparing submittals.

Coordination:

[Redacted Coordination Section]

Processing Time:

[Redacted Processing Time Section]

Allow enough time for submittal review, including time for resubmittals, as follows:

- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]

Identification:

Place a permanent label or title block on each submittal for identification.

Indicate name of firm or entity that prepared each submittal or title block.

Provide a space approximately 6 by 8 inches on label or beside title block to record Company review and approval markings and action taken. Include the following information on label for processing and recording action taken:

- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]

Submittal number shall use Specification number followed by a decimal point and then a sequential number, e.g., 60-05-110.01. Resubmittals shall include an [REDACTED]

- [REDACTED]
- [REDACTED]
- [REDACTED]

Deviations:

Highlight, encircle or otherwise specifically identify deviations from the Contract Documents on submittals.

Additional Copies:

Unless additional copies are required for final submittal and unless noncompliance is observed with provisions in the Contract Documents, initial submittal may [REDACTED]

Additional copies submitted for maintenance manuals should be marked with action taken and should be returned.

Transmittal:

[REDACTED]

Transmittal Form:

Provide locations on form for the following information:

- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]

On an attached separate sheet, prepared on Company letterhead, record

[REDACTED]

Resubmittals:

[REDACTED]

Distribution:

[REDACTED]

Use for Construction:

[REDACTED]

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PART 2: PRODUCTS

2.1 ACTION SUBMITTALS

General:

Prepare and submit Action Submittals required by individual Specifications. If available, submit electronic submittals directly to extranet specifically established for the Project.

Product Data:

Collect information into a single submittal for each element of construction and type of product or equipment. If information must be specially prepared for submittal because standard printed data are not suitable for use, submit [REDACTED]

Include the following information, as applicable:

- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]

Submit Product Data before or concurrent with Samples.

Number of Copies:

[REDACTED]

Shop Drawings:

[REDACTED]

Preparation:

Fully illustrate requirements in the Contract documents using the following information, as applicable:

- [REDACTED]
- [REDACTED]

- [Redacted]
- [Redacted]
- [Redacted]
- [Redacted]
- [Redacted]
- [Redacted]
- [Redacted]
- [Redacted]
- [Redacted]
- [Redacted]
- [Redacted]
- [Redacted]
- [Redacted]

Wiring Diagrams:

[Redacted]

Sheet Size:

[Redacted]

Number of Copies:

[Redacted]

Samples:

[Redacted]

Identification:

Attach label on unexposed side of Sample(s) that includes the following:

- [Redacted]
- [Redacted]
- [Redacted]
- [Redacted]

Disposition:

[Redacted]

[Redacted]

Revise first two subparagraphs and associated subparagraphs below if Project requires [Redacted]

[Redacted]

Samples for Initial Selection:

[Redacted]

Number of Samples:

[Redacted]

Samples for Verification:

Submit full-size units or Samples of size indicated, prepared from same material to be used for the Work, cured and finished in the manner specified and physically identical with material or product proposed for use, and that show full range of color and texture variations expected. Samples include, but are not limited to the following:

- [Redacted]
- [Redacted]
- [Redacted]
- [Redacted]
- [Redacted]
- [Redacted]

Number of Samples:

[Redacted]

Product Schedule or List:

As required in individual Specifications, prepare a written summary indicating types of products required for the Work and their intended location. Include the following information in tabular form:

- [Redacted]

- [REDACTED]
- [REDACTED]

Number of Copies:

[REDACTED]

Subcontract List:

Prepare a written summary identifying individuals or firms proposed for each portion of the Work, including those that are to furnish products or equipment fabricated to a special design. Include the following information in tabular form:

- [REDACTED]
- [REDACTED]
- [REDACTED]

Number of Copies:

[REDACTED]

2.2 INFORMATIONAL SUBMITTALS

General:

[REDACTED]

Number of Copies:

[REDACTED]

Certificates and Certifications:

[REDACTED]

Qualification Data:

[REDACTED]

Welding Certificates:

[REDACTED]

Installer Certificates:

[Redacted]

Manufacturer Certificates:

[Redacted]

Product Certificates:

[Redacted]

Material Certificates:

[Redacted]

Material Test Reports:

[Redacted]

Product Test Reports:

[Redacted]

Preconstruction Test Reports:

[Redacted]

Field Test Reports:

[Redacted]

Manufacturer's Instructions:

Prepare written or published information that documents manufacturer's recommendations, guidelines and procedures for installing or operating a product or equipment. Include name of product and name, address and telephone number of manufacturer. Include the following, as applicable:

- [Redacted]
- [Redacted]
- [Redacted]

- [REDACTED]
- [REDACTED]
- [REDACTED]

Manufacturer's Field Reports:

Prepare written information documenting factory-authorized service representative's tests and inspections. Include the following, as applicable:

- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]

Insurance Certificates and Bonds:

[REDACTED]

[REDACTED]

2.3 DELEGATED DESIGN

Performance and Design Criteria:

[REDACTED]

Delegated Design Submittal:

[REDACTED]

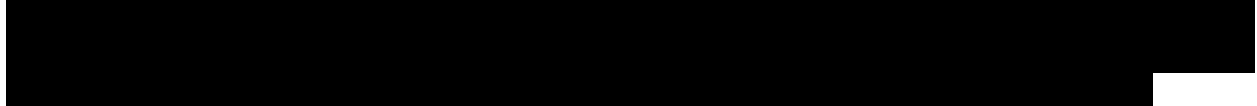
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PART 3: EXECUTION

3.1 REVIEW

Review each submittal and check for coordination with other Work of the Contract and for compliance with Contract Documents - note corrections and field dimensions. Mark with approval stamp before submitting.

Approval Stamp:

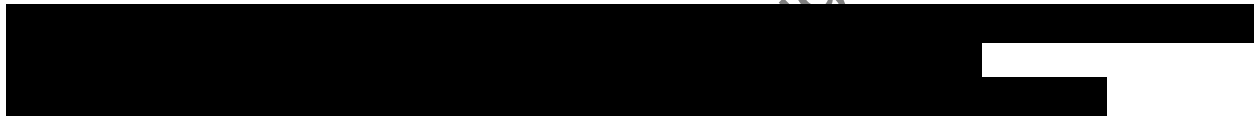


3.2 SUBMITTALS / ACTION

General:

Submittals that do not bear approval stamp will be returned without action.

Action Submittals:



Informational Submittals:



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CONSTRUCTION SUBSTITUTION STANDARDS

Origination Date: (month year)

Document Identifier:	Name, Number, Unique ID
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Document Status:	Draft, Redline, Released, Obsolete

Abstract:

This document describes construction project options and substitution standards.

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1.0 GENERAL

1.1 RELATED DOCUMENTS

Procurement documents and general provisions of the Contract
General and Supplementary Conditions and Specifications

1.2 SUMMARY

Work Included: Contractor's options and substitution procedures.

1.3 LEADERSHIP IN ENERGY AND ENVIRONMENTAL DESIGN (LEED)

See Sustainable Design Standards.

1.4 PRODUCT OPTIONS

Products specified by Reference Standards or by Description Only:

- Any product meeting the reference standards or description.

Products Specified by Naming one or more Manufacturers with a Provision for Substitutions:

The Company shall submit a request for substitution for any manufacture not named according to the following standard.

Whenever an item or class of material is specified exclusively by trade name, manufacturer's name, or by catalog reference, use only such item unless written approval for substitution is secured. In the event the Company finds it necessary to substitute other materials for materials specified in drawings and specification, the Company shall propose such substitution in writing to the Customer within 10 days of date of contract setting forth comparative data including cost.

The Company shall make no substitutions

Use one brand of manufacture for like material and equipment. Include

Any job site activity conducted for the Company by a field representative of any manufacturer or vendor shall be coordinated through the Project Manager.

Unless otherwise approved, in writing,

Transactions with manufacturers shall be through the Company. All letters initiated by the manufacturer, if transmitted to the Company, shall

In making request for substitution, the Company represents that they:

-
-

- [REDACTED]
- [REDACTED]
- Present complete cost data and includes all related costs under this contract, but excludes:
[REDACTED]

Substitutions will not be considered if:

[REDACTED]

Non-receipt of substitution request within the stipulated time will indicate [REDACTED]

[REDACTED]

Reference in the specifications to any material, product, article, thing, service, or process by name, make, or catalog number shall [REDACTED]

[REDACTED]

1.5 SUBSTITUTIONS

Requests for substitutions of any material, product, article, thing, service or process specified or shown shall be approved in writing by the Customer.

1.6 PRODUCT APPROVAL BY UNDERWRITING AGENCIES

Products approved by Factory Mutual System may bear a mark on the product label signifying [REDACTED]

[REDACTED]

Products covered by Underwriters Laboratories, Inc. Listing Service bear on the product label an appropriate Underwriters Laboratories Listing Mark. The Underwriters Laboratories, Inc. Listing Mark on the product label shall [REDACTED]

[REDACTED]

CONSTRUCTION SUSTAINABLE DESIGN STANDARDS

Origination Date: (month year)

Document Identifier:	Name, Number, Unique ID
Date:	Latest Revision Date
Project:	Customer, Unique ID, Part Number
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Abstract:

This standard describes general requirements and procedures for compliance with certain USGBC Leadership in Energy & Environmental Design (LEED) prerequisites and credits needed to obtain LEED Silver Certification.

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PART 1: GENERAL

1.1 RELATED DOCUMENTS

Procurement documents

1.2 SUMMARY

This Standard includes general requirements and procedures for compliance with certain USGBC Leadership in Energy & Environmental Design (LEED) prerequisites and credits needed for the Project to obtain LEED Silver certification based on LEED-NC, [REDACTED] LEED-CI, [REDACTED] or LEED-CS, [REDACTED]

Other LEED prerequisites and credits needed to obtain LEED certification depend on material selections and may not be specifically identified as LEED requirements. Compliance with requirements needed to obtain LEED prerequisites and credits may be used as one criterion to evaluate substitution requests and comparable product requests. Additional LEED prerequisites and credits needed to obtain the indicated LEED certification depend on the design and other aspects of the Project that are not part of the Work of the Contract.

1.3 DEFINITIONS

Chain-of-Custody Certificates:

Certificates signed by manufacturers certifying that wood used to make products was obtained from forests certified by an FSC-accredited certification body to comply with FSC STD-01-001, "FSC Principles and Criteria for Forest Stewardship." Certificates shall include evidence that the manufacturer is certified for chain of custody by an FSC-FSC-accredited certification body.

Rapidly Renewable Materials:

Materials made from plants that are typically harvested within a 10-year or shorter cycle. Rapidly renewable materials include products made from bamboo, cotton, flax, jute, straw, sunflower seed hulls, vegetable oils or wool.

Regional Materials:

Materials that have been extracted, harvested or recovered as well as manufactured within 500 miles of the Project site. If only a fraction of a product or material is extracted/harvested/recovered and manufactured locally then only that percentage (by weight) shall contribute to the regional value.

Regionally Manufactured Materials:

Materials that are manufactured within a radius of 500 miles from the Project site. Manufacturing refers to the final assembly of components into the building product that is installed at the Project site.

Regionally Extracted and Manufactured Materials:

Regionally manufactured materials made from raw materials that are extracted, harvested or recovered within a radius of 500 miles from the Project site.

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Recycled Content:

The recycled content value of a material assembly shall be determined by weight. The recycled fraction of the assembly is then multiplied by the cost of assembly to determine the recycled content value.

"Post-consumer" material is defined as waste material generated by households or by commercial, industrial and institutional facilities in their role as end users of the product that can no longer be used for its intended purpose.

"Pre-consumer" material is defined as material diverted from the waste stream during the manufacturing process. Excluded is reutilization of materials such as rework, regrind or scrap generated in a process and capable of being reclaimed within the same process that generated it.

1.4 SUBMITTALS

General:

LEED submittals are in addition to other submittals. If a submitted item is identical to that submitted to comply with other requirements, submit duplicate copies as a separate submittal to verify compliance with indicated LEED requirements.

Project Materials Cost Data:

Provide statement indicating total cost for materials used for the Project. Costs exclude labor, overhead and profit. Include breakout of costs for the following categories of items:

- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]

LEED Action Plans:

Provide preliminary submittals within seven days of date established for commencement of the Work, indicating how the following requirements will be met:

- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]

- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]

LEED Progress Reports:

Concurrent with each Application for Payment, submit reports comparing actual construction and purchasing activities with LEED action plans for the following:

- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]

LEED Documentation Submittals:

- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]

-
-

Construction Documentation:

-
-
-
-

1.5 QUALITY ASSURANCE

LEED Coordinator:

Engage an experienced LEED-Accredited Professional to coordinate LEED requirements. LEED coordinator may also serve as waste management coordinator.

PART 2: PRODUCTS

This section is not applicable if no salvaged materials are available.

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2.1 SALVAGED AND REFURBISHED MATERIALS

- [REDACTED]
- [REDACTED]

2.2 RECYCLED CONTENT OF MATERIALS

- [REDACTED]
- [REDACTED]
- [REDACTED]

2.3 REGIONAL MATERIALS

This section is not applicable if no regional materials are available.

- [REDACTED]

2.4 CERTIFIED WOOD

- [REDACTED]

Wood-based materials include but are not limited to the following materials when made from wood, engineered wood products or wood-based panel products:

- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]

2.5 LOW-EMITTING MATERIALS

Credit EQ 4.1: For field applications that are inside the weatherproofing system, use adhesives and sealants that comply with the following limits for VOC content when calculated according to 40 CFR 59, Subpart D:

- [illegible]

- weatherproofing system, use paints and coatings when calculated according to 40 CFR 59, Subpart

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- [REDACTED]
- [REDACTED]

[illegible]

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PART 3: EXECUTION

3.1 REFRIGERANT AND CLEAN AGENT FIRE EXTINGUISHING AGENT REMOVAL

- [REDACTED]
- [REDACTED]

3.2 MEASUREMENT AND VERIFICATION

- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]

3.3 CONSTRUCTION WASTE MANAGEMENT

Credit MR 2.1 and Credit MR 2.2: Comply with "CLEANING AND WASTE MANAGEMENT".

3.4 CONSTRUCTION INDOOR-AIR-QUALITY MANAGEMENT

Credit EQ 3 EQ 3.1: Comply with SMACNA's "SMACNA IAQ Guideline for Occupied Buildings under Construction."

If the Customer authorizes use of permanent heating, cooling and ventilating systems during construction period, install filter media having a MERV 8 according to ASHRAE 52.2 at each return-air inlet for the air-handling system used during construction. Replace all air filters immediately prior to occupancy with filter media having a MERV 13.

Credit EQ 3.2: Comply with one of the following requirements:

- [REDACTED]
- [REDACTED]

[Redacted]

Air-Quality Testing:

Conduct baseline indoor-air-quality testing after construction ends and prior to occupancy using [Redacted]

[Redacted]

Demonstrate that the contaminant maximum concentrations listed below are not exceeded:

- [Redacted]
- [Redacted]
- [Redacted]
- [Redacted]
- [Redacted]

For each sampling point where the maximum concentration limits are exceeded, conduct [Redacted]

[Redacted]

Air-sample testing shall be conducted as follows:

- [Redacted]
- Building shall have all interior finishes installed including but not limited to millwork, doors, paint, [Redacted]
- [Redacted]
- [Redacted]
- [Redacted]

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