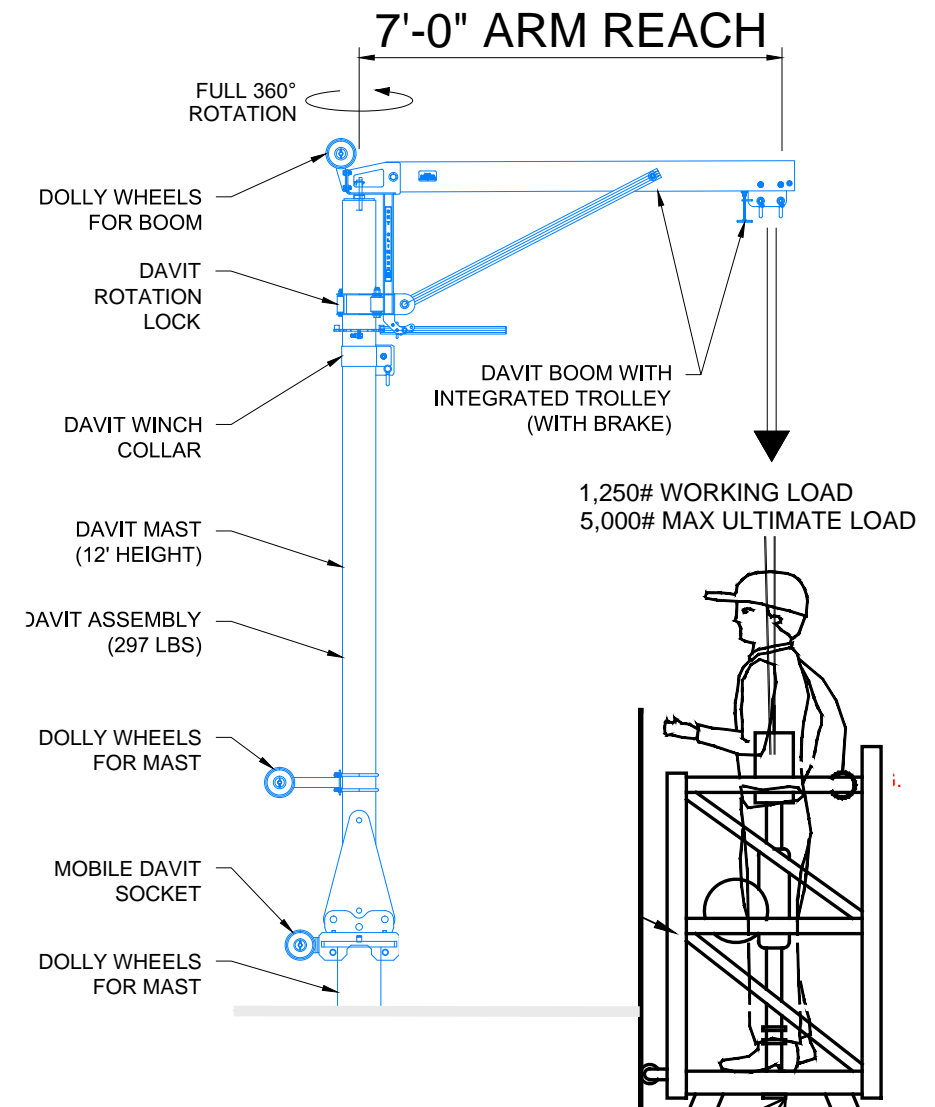


When working in close proximity to electrical power lines, the minimum safe distances outlined below shall be maintained.

Voltage, V Min.	Required Clearance, ft (m)
600 - 50,000	10 (3.05)
50,000 - 200,000	15 (4.60)
200,000 - 350,000	20 (6.10)
350,000 - 500,000	25 (7.62)
500,000 - 750,000	35 (10.67)
750,000 - 1,000,000	45 (13.72)

4-WIRE SCAFFOLD
This building requires a four (4) wire suspended scaffold equipped with an engineered horizontal life line (Dogline) in lieu of independent safety lines for Fall Protection. Each worker is required to attach their safety harness lanyard to the platform's internal horizontal dogline system, while on board.

CAUTION
Personal Fall Protection equipment **MUST** be worn and properly attached prior to working with suspension equipment at this building.
FAILURE TO FOLLOW THESE INSTRUCTIONS COULD RESULT IN SERIOUS INJURY OR DEATH.



Rescue Equipment:
Each scaffold worker shall be properly trained and have extra equipment on the platform necessary for rescuing a stranded or incapacitated worker or for a self-rescue in an emergency while accessing the building's facade.
Additional Equipment List (may be needed by the rescuer):
1. Lifeline,
2. Rope grab and lanyard,
3. Descent device and carabiner,
4. Sharp knife.

GENERAL NOTES
THIS OPERATING PROCEDURES OUTLINE SHEET (OPOS) is intended as a general guide for employers and for use as an instructional aid during required employee training when using the suspended equipment and the various parts of its associated system provided on this building and provided by the Contractor to safely perform both unscheduled and scheduled maintenance that includes exterior window cleaning. This OPOS is to be used in accordance with all applicable California Labor Codes and Safety Order requirements and with the manufacturer's detailed instructions and recommendations.

- The manufacturers Operating Manual for the use of this equipment shall be provided to the Contractor by the Building Management and should be thoroughly understood by the contractor's employees. The importance of understanding and complying with this OPOS and the detailed inspection, operation and maintenance instructions contained in the equipment manufacturer's Operating Manual, furnished by the Property Manager, cannot be over emphasized to assure the safe operation of this equipment. The davit system on this building requires special rigging and handling procedures which must be performed by workers trained in suspended scaffold use and who are knowledgeable of the rigging and handling procedures required at this building.
- Workers performing building maintenance, such as window cleaning, especially those using suspended scaffolds and associated equipment, shall be adequately supervised to assure that all work is performed using safe work practices in accordance with the manufacturer's instructions and applicable safety orders.
- Appropriate fall arrest equipment shall be provided by contractor to its employees and used in accordance with all applicable codes, i.e., full body harness, safety lines and lanyards.
- All building maintenance equipment, such as davits, scaffolds and tie-back anchorages, must be inspected by the user before each use. Any equipment found to be defective or not functioning as designed shall not be used. In addition, any discrepancies found shall be immediately reported to the Property Management.
- Work in the affected areas, or the use of affected equipment shall cease and not proceed until such equipment is repaired or replaced and the work can be performed safely.
- The use of ground supported equipment, such as built up scaffolds, elevating work platforms, aerial devices and water feed poles may be used during scheduled building maintenance when used in accordance with applicable safety orders only after their use has been previously accepted by the property manager.
- RESTRICTIONS:** The use of any suspended equipment except the suspended equipment specified in this OPOS and by the equipment manufacturer as part of the buildings' permanent installation for maintenance operations is strictly prohibited.
- DANGER:** Any obstructed access or work areas, or defective building equipment found shall be immediately reported to the property manager.
- CAUTION:** Special care shall be taken when handling ground supported equipment, suspended scaffolds and associated equipment to assure that no damage occurs to the exterior of the building, landscaping or peripheral fixtures such as guardrails, lamp posts, trees and beacons.
- CAUTION:** When suspended equipment is used directly over areas which are traversed by workers, pedestrians or vehicles, such area immediately below shall be effectively blocked off by barricades as well as an attendant shall be stationed to keep the area clear. Warning signs shall also be posted below.
- CAUTION:** Personal hand tools shall be secured to prevent being dropped from suspended equipment. Workers when handling any window cleaning equipment or tools must exercise care.
- Cal-OSHA requires all exterior maintenance equipment be periodically inspected and tested per (TITLE 8, Industrial Relations) Subchapter 7, General Industry Safety Orders/Group 1, General Physical Conditions and Structures/Article 6, Powered Platforms and Equipment for Building Maintenance, §3296, Periodic Inspections and Tests.
- Each installation shall undergo a periodic inspection and test at least every 12 months by the equipment manufacturer, authorized representative, or other qualified person acceptable to the Division. All parts of the equipment, including related building support structures, shall be inspected, and where necessary, tested to determine that they are in safe operating condition.
- The building owner shall keep a certification record of each inspection and test required under subsection (b)(1) of this section. The certification record shall include the date of the inspection, the signature of the person who performed the inspection, and the number, or other identifier, of the building support structure and equipment which was inspected. This certification record shall be kept readily available for review by the Division and by the employer.
- Working platforms and their components shall be inspected by the employer for visible defects before every use and after each occurrence which could affect the platform's structural integrity.

EMERGENCY ACTION PLANS
Emergency action plans have been developed so that building occupants can become familiar with necessary procedures already in place to safely evacuate the building in an emergency. All workers performing building maintenance shall familiarize themselves with these procedures, the various exit routes and alarms.

In addition, maintenance workers shall be knowledgeable of escape routes and procedures from areas and equipment they will occupy during the course of their work. Before any OPOS maintenance work begins, the building security station shall be notified of the nature, location and time of day work will be performed. The security guard station shall keep a log of the maintenance operations and shall be updated as operation locations change.

In the event of a building emergency, persons performing building maintenance work will, like the building occupants, exit the building following the building's Emergency Action Plan, and where applicable, those previously established for the locations unique to their operations. In addition, persons performing exterior building maintenance in accordance with procedures in this OPOS can have workers on suspended equipment at the time of a building emergency.

When a building emergency occurs, persons associated with suspended equipment will immediately establish communications with building security to determine the nature of the emergency. Unless instructed to do otherwise, suspended scaffolds shall be landed, and where necessary, safe egress made from the building.

SUSPENDED SCAFFOLDS GENERAL
Exterior building maintenance is to be performed from "roof rigged and ground-rigged" Power Driven Suspended Scaffold. To prevent damage to roofing material the scaffold shall only come to rest on the walkways provided for equipment and personnel travel while on the roof of all buildings.

Scaffolds are to be occupied by 2 persons at all times except when the suspended scaffold has been re-configured to the 1-person basket configuration. When in this configuration an observer must be present and shall maintain a clear and unobstructed view of the basket occupant at all times. Having 2 persons in the scaffold or one acting as an observer, when applicable, will assure that in the event of an emergency to one of the scaffold occupants, such as a medical emergency, the other person will be available to: 1) Notify building security of the nature of the emergency using a two-way communication system. 2) Assist with the emergency procedures.

EMERGENCY & RESCUE PROCEDURES
SUSPENDED SCAFFOLD
Category A - This emergency exists during conditions such as a power failure where the scaffold occupants are not in any immediate danger but are stalled on the drop. The scaffold occupants will contact the BUILDING MANAGEMENT, via two-way communications system, notifying security of the nature of the emergency and location of the scaffold. The occupants, depending on the instructions from their supervisor, may be instructed to wait until power is restored to the platform, or to travel the scaffold down in its manual mode to a safe egress location.
Category B - This emergency exists during conditions when the scaffold has experienced equipment failure making the platform incapable of ascent or descent. Scaffolding occupants would not be in immediate danger. The scaffold occupants will contact the BUILDING MANAGEMENT, via two-way communication system, notifying security of the nature of the emergency and the location of the scaffold. The scaffold occupants, depending on instructions from their supervisor, will be instructed in the procedures to be followed to effect their safe egress from the platform.
Category C - This emergency exists during conditions such as those where the scaffold is incapable of movement and to remain on the scaffold platform will expose the occupants to imminent danger. During a category C emergency, the scaffold occupants will contact building security, via two-way communication system, notifying security of the nature of the emergency and the location of the scaffold and that the occupants will be making emergency descent from the scaffold.
In order to ensure scaffold occupants have the capability to make emergency descent from the scaffold platform during a Category C emergency, the means necessary to make such a descent shall be available on the scaffold for use by the scaffold's occupants.
Workers using suspended scaffolds shall be trained in the proper rigging and use of the descent devices present. The scaffold occupants shall inspect descent devices provided for Category C emergencies before beginning the scaffold's initial drop giving particular attention to ensure the descent devices are capable of use at the highest drop.

OPERATING PROCEDURES
Drop sequence indicators are for reference only. Numbered drop identifiers do not reflect the order in which the job is to be performed.
CAUTION: Only a Cal-OSHA defined "Competent Person" shall perform or supervise the following exterior maintenance procedures.
"Competent Person. One who is capable of identifying existing and predictable hazards in the surroundings or working conditions which are unsanitary, hazardous, or dangerous to employees, and who has authorization to take prompt corrective measures.

All scheduled and unscheduled maintenance drops are made with a contractor provided roof-rigged and ground-rigged, transportable power driven suspended scaffold. Ground area below all drops must be adequately barricaded to prevent pedestrian access.
The building's roof mounted davit and pedestal system shall be used to support transportable suspended equipment, using Cal-OSHA accepted methods. Ground-supported equipment may be used in those areas where suspension devices are not provided. See Roof Plan for drop locations and cautions.
CAUTION: Workers shall wear and secure Fall Protection Equipment while working on suspended equipment, such as suspended scaffolds or elevated work platforms, such as aerial lifts.

SCAFFOLD Fall Protection Equipment (Required for each worker):
1-Full Body Harness
1-4 ft. Shock absorbing Lanyard
1-Rope Grab

NOTE: All safety equipment listed above must meet or exceed applicable Cal-OSHA approved design specifications for exterior building maintenance operations.
Each worker independent safety line shall be properly attached to an independent tie-back anchorage mounted behind each fixed davit base.
CAUTION: Do not drag safety lines, suspension lines or electric cable across parapet while raising, lowering or moving between drop locations. Prior to commencement of all exterior maintenance operations the contractor provided transportable scaffold must be initially ground-rigged from the building southeast corner using the following Scaffold Pick-up Procedures:

SCAFFOLD PICKUP PROCEDURES
1. Move platform into transfer position.
2. Lower a rigging line or tag line from the roof level to the platform.
3. Attach power cord to the end of the rigging rope. Tie-off and plug in power cord.
4. Attach one suspension rope to the end of the rigging rope.
5. Pull the suspension rope up to the roof level, while a second worker runs the platform hoist in the down direction to pay out the wire rope.
6. Attach the end of the wire rope to the davit arm at roof level.
7. Repeat steps 4 & 5 for each suspension rope.
8. After the suspension ropes are in place it will be necessary to pull up the secondary safety lines. The safety lifelines must be attached to an independent approved anchor provided at the roof level.
9. To derig reverse above procedures.
Roof access is through the Mechanical Penthouse. Building provided davits are inserted into davit sockets and attached to roof mounted davit pedestals. All drops are made with a contractor provided Power Driven Suspended Scaffold. See Roof Plan for pedestal locations.

IMPORTANT: DAVIT LOAD CAPACITY - 1250 POUNDS. CONTRACTOR SHALL ENSURE THAT THE COMBINED LOADS OF SCAFFOLD, WORKERS (2 FIT WORKERS MAX.) AND EQUIPMENT DO NOT EXCEED THE COMBINED DAVIT CAPACITIES.

Job completion point: Properly store or remove ALL equipment.

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Facade Access Upgrade Project
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San Francisco, CA 94102

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San Francisco, CA 94102

Architect:
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Consultant:
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REGISTERED SCAFFOLD INSPECTION & TESTING AGENCY
SRS SAFETY SERVICES, INC.
LICENSED SURVEYOR: RICK SCOTT
CAL OSHA S.I.T. LIC. NO. 24
EXP. DATE 09/14/19
STATE OF CALIFORNIA

BUILDING DATA:
HEIGHT: 85 FT.
YEAR BUILT: 1978

EBM SYSTEM:
INSTALL DATE: 2018
MANUFACTURER: SKYCLIMBER
SYSTEM TYPE: PORTABLE DAVITS
W/ 2 POINT SUSPENSION
DAVIT LOAD CAPACITY: 1250 LBS.

Scale: As Shown
Project No. 12042.04
Date: 11/02/2018
Drawn: JG
Checked: RS
Sheet Number:

OPOS 1.0
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