

Safety From The Top Down

DAVIT manual

Suspended Access Systems
and Fall Protection



Summit Anchor Co.™

Safety From The Top Down

CELEBRATING
25 years of Safety

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Standards in the United States and Canada require a building to provide certified anchorages capable of supporting the required loads before any suspended maintenance work is performed.

Davit Overview

Davits are often used in addition to roof and wall safety/tie-back anchors to provide a suspension point that will:

- Clear non-load bearing parapets of a building or other architectural feature that may be easily damaged.
- Access areas beyond these features which are hard to reach. Such features may include:
- Glass or other finished parapets
- Decorative railings
- Overhangs and cornices
- Sloped glazing

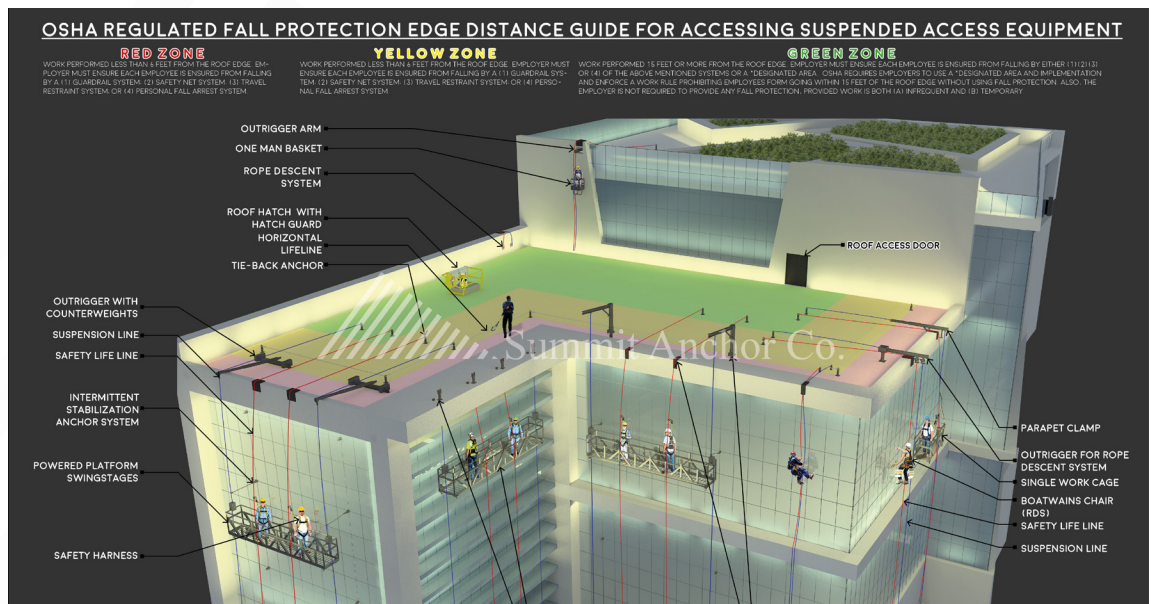
Davit pedestal bases are permanently mounted above the intended suspension locations. Portable davit arms are moved manually to each location when needed. The mast and boom components of the davit arms may be dismantled for easy transportation. Assembled davits may be rotated 360 degrees to provide a range of access options to maintenance workers to service a building's façade.

Davits can be used alone or in pairs:

- Davits may be used singly when supporting one-man rope descent systems (RDS) or a single-point suspension scaffold.
- Davits are used in pairs when they will be used to suspend a powered platform with hoists mounted at each end. Davits may be ground-rigged or roof-rigged:
- Ground-rigged davits provide a suspension point for suspending a platform situated on a lower level (e.g. sidewalk below). They only need to be tall enough for the boom to clear the parapet, making them easier to handle and erect than roof-rigged davits.
- Roof-rigged davits enable workers to initially rig and board a powered platform on the roof, which will then be launched outboard of the parapet and suspended along the building face. Consideration needs to be given to providing sufficient landing surface on the rooftop for the platform and a suitable load bearing surface for safely rolling it on the roof to successive drop locations. Clearance to tip up and down davit arm is required around each davit base to allow for set-up and dismantling.



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Introduction to Davit Layout Requirements

Each maintenance worker's lifeline is required to be attached to an independent anchorage on the roof. Davit spacing should take into consideration the length of the powered platform that will be used by workers in the future. The diagrams below illustrate a sample davit layouts.

Notes:

1. Davit spacing may vary depending on roof conditions; however, spacing should be kept as consistent as possible to allow for standard powered platform.
2. Each worker must be independently tied to an anchor on the roof.
3. Placement of davits and roof anchors shall allow cables suspending the powered platform to hang parallel and in plane or slightly angulated with the building when in use to allow the platform to press firmly against the building during its vertical travel.

Fall Protection Zones

1) RED ZONE: Work performed less than 6 feet from the roof edge.

Employer must ensure each employee is ensured from falling by a (1) Guardrail system; (2) Safety net system; (3) Travel restraint system; or (4) Personal fall arrest system.

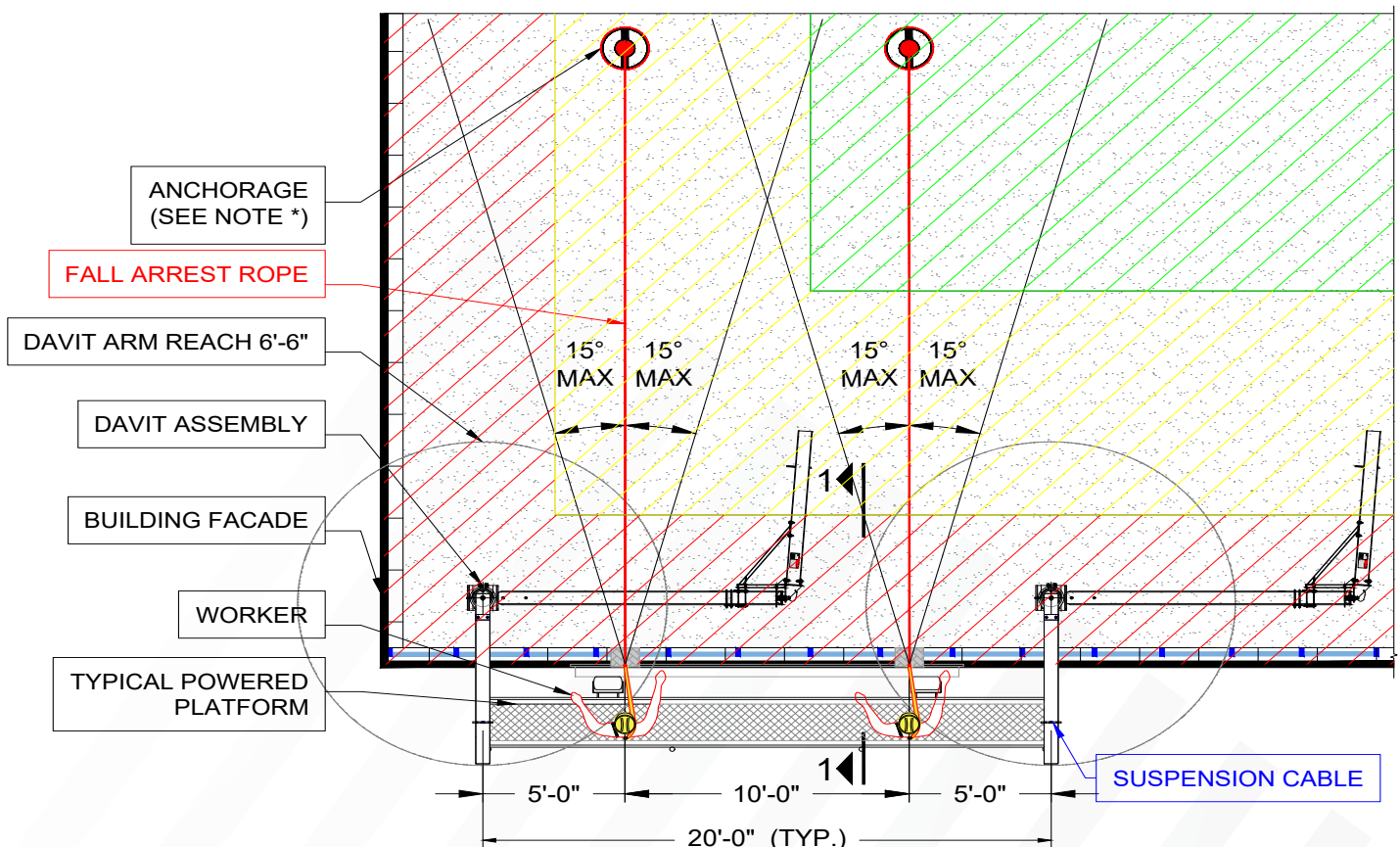
2) YELLOW ZONE: Work performed more than 6 feet but less than 15 feet from the roof edge.

Employer must ensure each employee is ensured from falling by either (1)(2)(3) or (4) of the above mentioned systems. However, for work that is both (a) infrequent and (b) temporary OSHA allows employers to use a Designated Area*.

3) GREEN ZONE: Work performed 15 feet or more from the roof edge.

Employer must ensure each employee is ensured from falling by either (1)(2)(3) or (4) of the above mentioned systems or a Designated Area*. OSHA requires employers to use a Designated Area* and implementation and enforce a work rule prohibiting employees from going within 15 feet of the roof edge without using fall protection. Also, the employer is not required to provide any fall protection, provided work is both (a) infrequent and (b) temporary.

*DESIGNATED AREA IS DELINEATED AREA WITH WARNING LINE. SEE OSHA SUBPART D FOR MORE INFORMATION ON THE PROPER SET-UP AND USE OF WARNING LINES.



Fall Protection for Workers on Platforms

(*) SUBPART D WALKING AND WORKING SURFACES 1910.140 PERSONAL FALL PROTECTION SYSTEMS

OSHA Subpart D - (d, 1, ii), System Criteria

Personal fall arrest systems are rigged in such manner that the employee cannot free fall more than 6 feet (1.8m) or contact a lower level. A free fall may be more than 6 feet (1.8m) provided the employer can demonstrate the manufacturer designed the system to allow a free fall or more than 6 feet and tested the system to ensure a maximum arresting force of 1,800 pounds (8kN) is not exceeded.

OSHA Subpart D - (n) Free fall considerations. Employers and employees should always be aware that a system's maximum arresting force is evaluated under normal use conditions established by the manufacturer. OSHA requires that personal fall arrest systems be rigged so an employee cannot free fall in excess of 6 feet (1.8 m). Even a few additional feet of free fall can significantly increase the arresting force on the employee, possibly to the point of causing injury and possibly exceeding the strength of the system. Because of this, the free fall distance should be kept to a minimum, and, as required by §1910.140(d)(2), must never be greater than 6 feet (1.8 m).

To assure this, the tie-off attachment point to the lifeline or anchor should be located at or above the connection point of the fall arrest equipment to the harness.

OSHA Subpart D - (p) Obstruction considerations. In selecting a location for tie-off, employers and employees should consider obstructions in the potential path of the employee. Tie-offs that minimize the possibilities of exaggerated swinging should be considered.

Commentary from Summit:

Anchorage located off center from the above the worker means that the potential free fall distance is greater, potentially increasing the fall arrest impact to the workers body.

Anchorage located off center from above the worker also increases the potential swing hazard, potentially creating a sawing action on the workers lifeline after arresting the fall. **SEE DIAGRAM B** For these reasons OSHA says that the "anchor should be located at or above the connection point of the fall arrest equipment to the harness." **SEE- DIAGRAM A** See page 74 OSHA Subpart D.

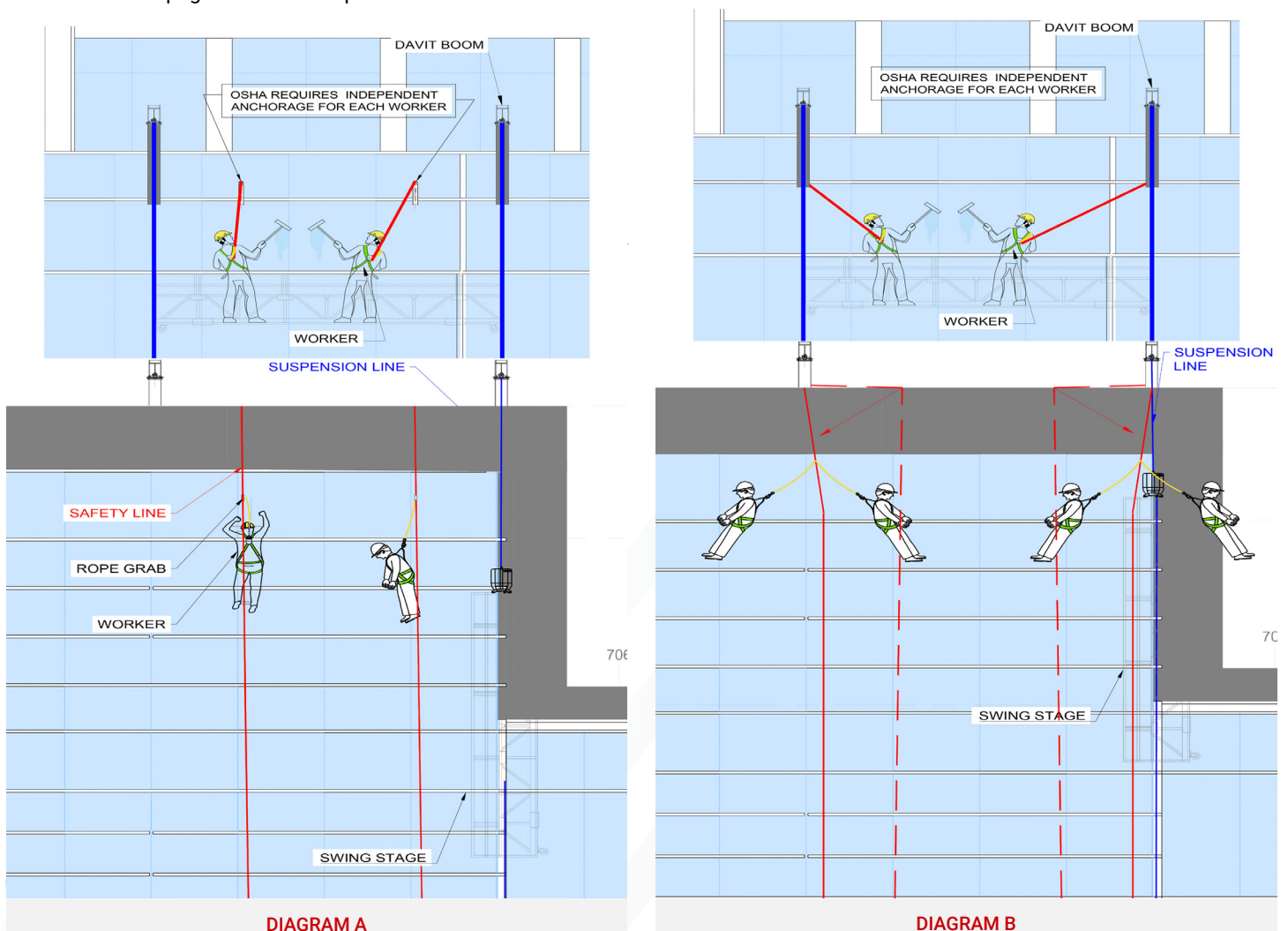
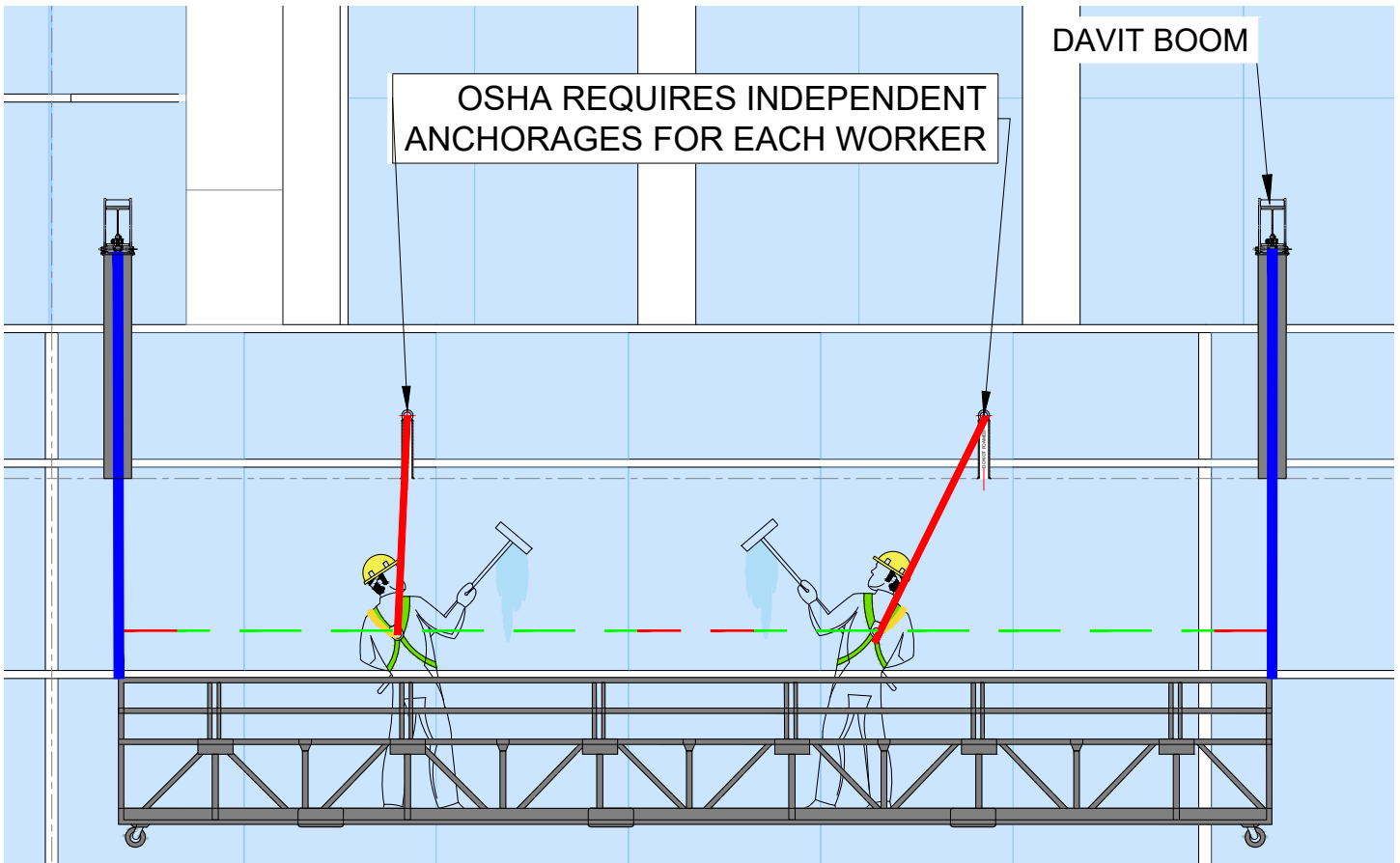


DIAGRAM A

DIAGRAM B



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GROUND RIGGED OUTRIGGER ASSEMBLY
 SUMMIT MODEL(S): PER TABLE

8'-0" MAX. OUTREACH
 8'-0" MAX. OUTREACH
 12"x12" OPENING IN WALL, RECOMMENDED TO RUN BOOM THROUGH
 1'-0" - 2'-0"

ADJUSTABLE BOOM
 CAPACITY PLATE TO MATCH WORKING LOAD
 2'-0"

1'-0" - 2'-0"

OTHER FROM HOLE TO SUSPENSION POINT FOR HOOKUP DEVICE

FIXED SHACKLE, SUSPENSION POINT

- SM-OTR-ARM: ALUMINUM BOOM ARM 8'-6" REACH, 1,000LB OR 1,250LB SERVICE LOAD.
- SM-OTR-CON: PORTABLE BOOM TO MAST CONNECTOR
- SM-DVT-OTR: ALUMINUM PORTABLE MAST.
- SM-DVT-SKX-X-XXXX: PORTABLE DAVIT SOCKET.
- SM-DVT-BSE-PX5-X-XXXX: GALV. STEEL PERMANENT C.I.P. DAVIT PEDESTAL.

SPECIFY DAVIT CAPACITY DESIRED FOR APPLICATION, THEN SELECT APPROPRIATE DAVIT BASE:

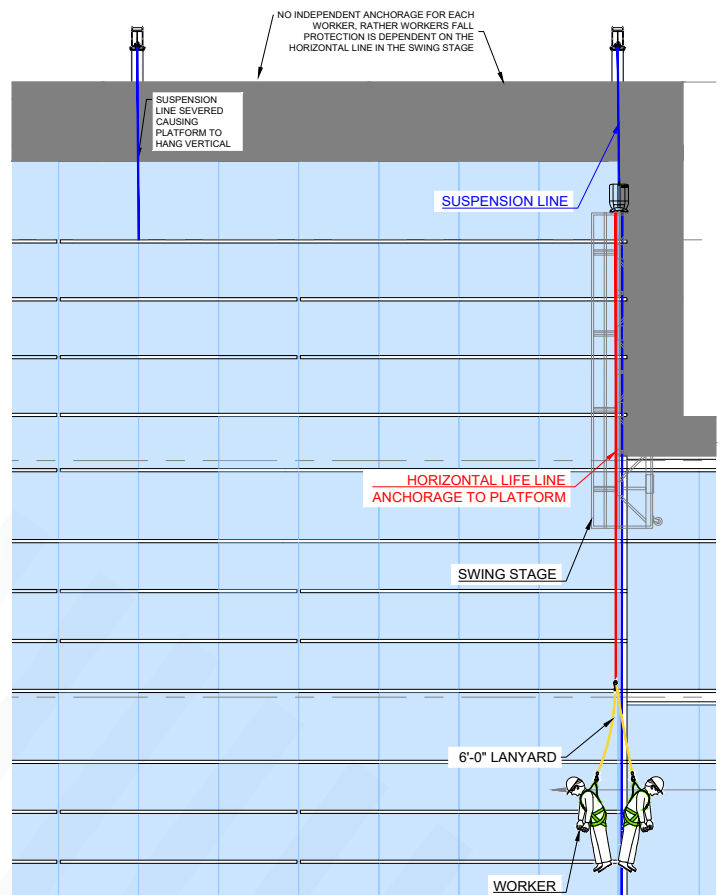
- 6'-6" REACH - 1,000 LBS. WORKING LOAD - 4,000 LBS. FACTORED LOAD
- 8'-6" REACH - 1,250 LBS. WORKING LOAD - 5,000 LBS. FACTORED LOAD
- 8'-6" REACH - 1,000 LBS. WORKING LOAD - 4,000 LBS. FACTORED LOAD
- 8'-6" REACH - 1,250 LBS. WORKING LOAD - 5,000 LBS. FACTORED LOAD

SUMMIT'S OTR FEATURES:

- TELESCOPING BOOM, IDEAL FOR BOOM PASS THROUGH WALLS
- LOW PROFILE SUITABLE FOR SWING STAGE AND ROPE DESCENTS APPLICATIONS.
- ROTATE BOOM MAST ASSEMBLY 360 DEGREES
- LOWEST COST DAVIT ARM ASSEMBLY AVAILABLE

DATE	DESCRIPTION	BY	CHKD
2014-08-01	REVISED	SM	SM
2014-08-01	ISSUED	SM	SM

Summit Anchor Co.
 DAVIT BASE MKT
 DRAWING NO. PART SCALE: 1:1
 SUM-DVT-BSE-PX5-XXXX A-2 PAGE NO. 2 OF 2



Summit Commentary:
 Free fall distance may far exceed OSHA's 6'-0" limit, when workers are tied to a horizontal line inside the suspended platform with no independent anchorages above workers.

What are OSHA's requirements for stabilization systems for use with davits?

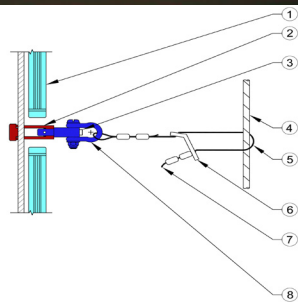
Typically, ISAs will be installed in pairs at the top of the building in-line with the support system above, e.g.: davit bases, rigging sleeves, and outriggers. The location can be either between the platform or just outside the suspension ropes, but, not both outside and inside the suspension ropes. The maximum vertical spacing for intermittent stabilization is 3 floors or 50 feet, whichever is less. See OSHA's requirement for ISA systems below:

1. "Intermittent stabilization system. The system shall keep the equipment in continuous contact with the building facade and shall prevent sudden horizontal movement of the platform. The system may be used together with continuous positive building guide systems using tie-in guides on the same building, provided the requirements for each system are met." (OSHA 1910.66(e)(2)(iii)(A)(1))
2. "The maximum vertical interval between building anchors shall be three floors or 50 feet (15.3 m), whichever is less." (OSHA 1910.66(e)(2)(iii)(A)(1))



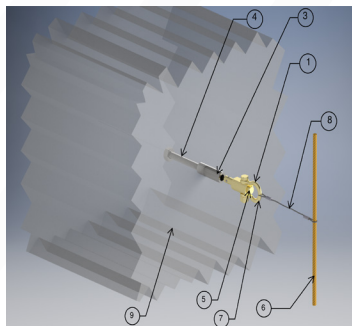
Single Intermittent Stabilization System with Anchor in Curtain Wall Mullion

1. Glazing
2. Permanent I.S.A. mounting block
3. Push button to detent the lock balls and remove/insert eye
4. Stage suspension cable
5. Connect lanyard from this eye to stage suspension cable
6. Lanyard length adjuster
7. Lanyard used to attach to the suspension should not be configured to snag or bind
8. Removable eye/pin



Single Intermittent Stabilization System with Anchor Cast in Place

1. Eye for insert into I.S.A. anchor
2. Soft plastic cap plug for debris protection
3. Permanent I.S.A. anchor
4. C.I.P. mount
5. Push button to detent the lock balls and remove/insert eye
6. Stage suspension cable
7. Connect lanyard from this eye to stage suspension cable
8. Lanyard
9. Building concrete



ELEVATION 9

X - INTERMITTENT STABILIZATION ANCHOR LOCATIONS

SUMMIT ANCHOR - GROUND RIGGED DAVIT FOR SWING STAGE OPERATIONS

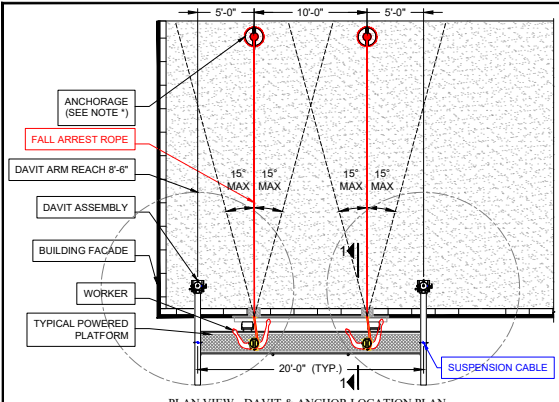
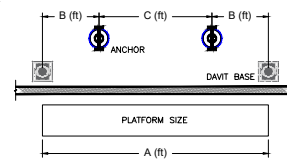
- GENERAL NOTES**
- DAVIT SPACING MAY VARY DEPENDING ON ROOF CONDITIONS; HOWEVER, SPACING SHOULD BE KEPT AS CONSISTENT AS POSSIBLE TO ALLOW FOR STANDARD POWERED PLATFORM LENGTH.
 - EACH WORKER MUST BE INDEPENDENTLY TIED TO AN ANCHOR ON THE ROOF OR INDEPENDENTLY TIED TO RIGGING SLEEVE.
 - PLACEMENT OF DAVITS AND ROOF ANCHORS SHALL ALLOW CABLES SUSPENDING POWERED PLATFORM TO HANG PARALLEL AND IN PLANE OR SLIGHTLY ANGULATED WITH THE BUILDING WHEN IN USE AND TO ALLOW THE PLATFORM TO PRESS FIRMLY AGAINST THE BUILDING DURING ITS VERTICAL TRAVEL.

STANDARD LAYOUT FOR DAVIT AND ANCHOR

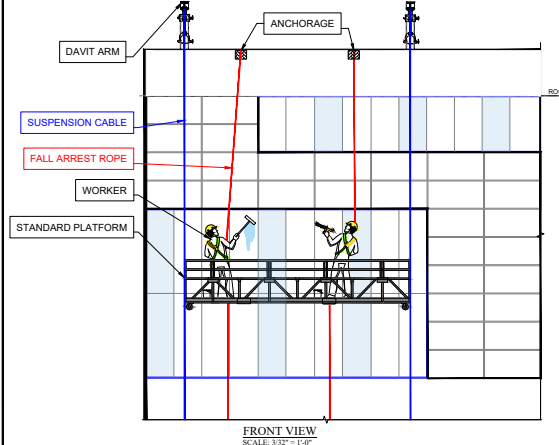
SPACING DAVIT TO DAVIT	SPACING DAVIT TO ANCHOR	SPACING ANCHOR TO ANCHOR
10	8	8
15	12	12
20	16	16
25	20	20
30	24	24

OSHA'S SUBPART D - WALKING - WORKING SURFACES REQUIRES EACH EMPLOYEE TO USE A SEPARATE INDEPENDENT FALL ARREST SYSTEM. THIS MEANS THAT EACH WORKER MUST HAVE THEIR OWN PRIMARY SUPPORT LINE CONNECTED TO ONE ANCHORAGE AND AN INDEPENDENT FALL ARREST SYSTEM CONNECTED TO AN INDEPENDENT ANCHORAGE. AN INDEPENDENT FALL ARREST ANCHORAGE IS REQUIRED FOR RDS.

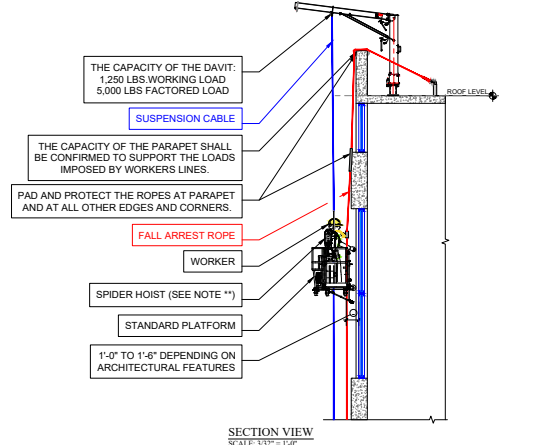
"SPIDER PLATFORM SPECIFICATIONS
 PT SPIDER SCT1000 HOIST ALL INCLUDE A 125% OVERLOAD
 - MOTOR WILL SHUT OFF IF LOAD EXCEEDS 1,250 LB FOR A 1,000 LB RATED HOIST
 - MOTOR WILL SHUT OFF IF LOAD EXCEEDS 1,562 LB FOR A 1,250 LB RATED LOAD.
 THE SPIDER HOIST MEETS THE REQUIREMENTS OF UL1323 AND OSHA 1910.66



PLAN VIEW - DAVIT & ANCHOR LOCATION PLAN
 SCALE: 3/32" = 1'-0"



FRONT VIEW
 SCALE: 3/32" = 1'-0"



SECTION VIEW
 SCALE: 3/32" = 1'-0"

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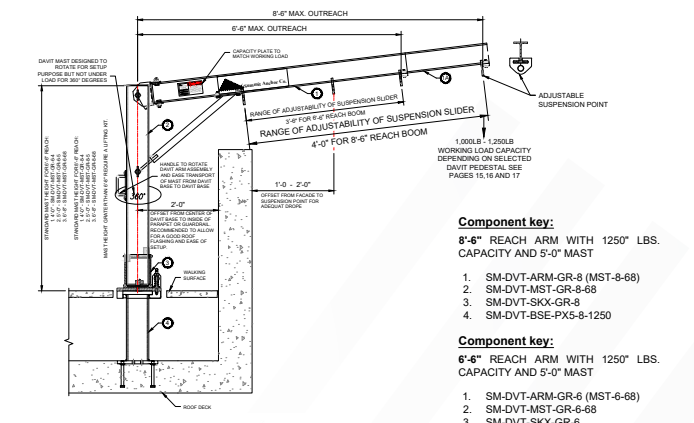
DATE: 10-1-2010
 DRAWN BY: M. Anwar
 CHECKED BY: G. Brown
 APPROVED BY: G. Brown

DAVIT TEMPLATE GUIDE FOR GROUND RIGGED PLATFORM

A-2

GROUND RIGGED DAVIT ASSEMBLY FOR 42" PARAPET GUARDRAIL APPLICATION

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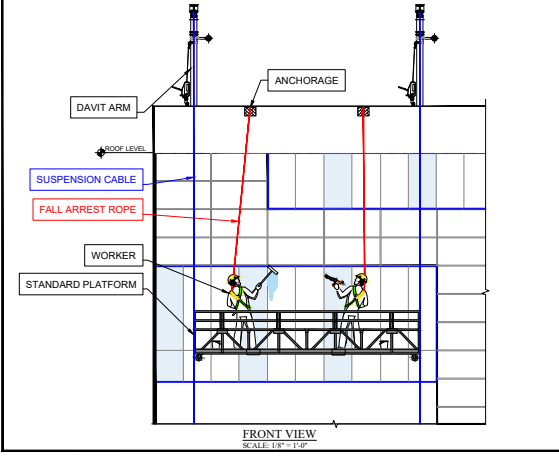
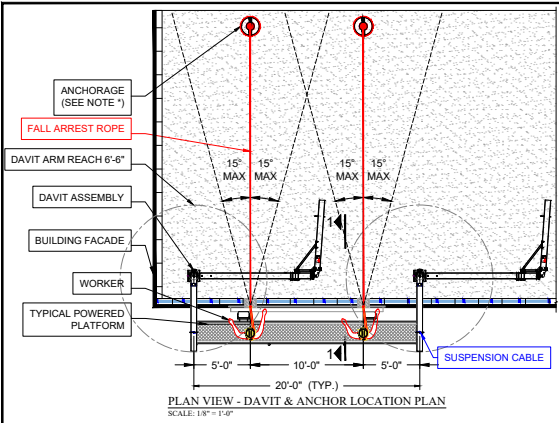
- Component key:**
 8'-6" REACH ARM WITH 1250' LBS. CAPACITY AND 5'-0" MAST
- SM-DVT-ARM-GR-8 (MST-8-88)
 - SM-DVT-MST-GR-8-68
 - SM-DVT-SKX-GR-8
 - SM-DVT-BSE-PX5-6-1250
- Component key:**
 6'-6" REACH ARM WITH 1250' LBS. CAPACITY AND 5'-0" MAST
- SM-DVT-ARM-GR-6 (MST-6-68)
 - SM-DVT-MST-GR-6-68
 - SM-DVT-SKX-GR-6
 - SM-DVT-BSE-PX5-6-1250

LOADS IMPOSED ON THE BUILDING STRUCTURE AS FOLLOWS

MODEL #	MAST HEIGHT	ARM REACH	WORKING LOAD	FACTORED LOAD	FACTORED MOMENT IN ANY VERTICAL PLANE
6'-6" REACH	4'	6'-6"	1,000 LB	4,000 K	30,750 K-FT
	5'	6'-6"	1,000 LB	4,000 K	36,880 K-FT
	6'-6"	6'-6"	1,000 LB	4,000 K	47,280 K-FT
6'-6" REACH	4'	6'-6"	1,250 LB	5,000 K	37,470 K-FT
	5'	6'-6"	1,250 LB	5,000 K	44,770 K-FT
	6'-6"	6'-6"	1,250 LB	5,000 K	58,340 K-FT
8'-6" REACH	4'	6'-6"	1,000 LB	4,000 K	36,880 K-FT
	5'	6'-6"	1,000 LB	4,000 K	43,970 K-FT
	6'-6"	6'-6"	1,000 LB	4,000 K	57,540 K-FT

ITEM	CATEGORY	MODEL NUMBER	DESCRIPTION	WEIGHT
1	Davit Ground Rigged Arm/Mast	SM-DVT-ARM-GR-6 (MST-GR-6-5)	Davit Arm, 6'-6" reach, Mast-5' height for roof launch, w/slider, FED OSHA	
		SM-DVT-ARM-GR-8 (MST-GR-8-5)	Davit Arm, 8'-6" reach, Mast-5' height for ground-launch, w/suspension slider, FED	
2	Davit, Component, Mast	SM-DVT-MST-GR-6-4	Davit Mast, Aluminum 6-5/8" Dia. X 4'-0" Tall, for mating with SM-DVT-ARM-GR-6	
		SM-DVT-MST-GR-6-5	Davit Mast, Aluminum 6-5/8" Dia. X 5'-0" Tall, for mating with SM-DVT-ARM-GR-6	
		SM-DVT-MST-GR-6-6	Davit Mast, Aluminum 6-5/8" Dia. X 6'-0" Tall, for mating with SM-DVT-ARM-GR-6	
3	Davit, Component, Mast	SM-DVT-MST-GR-8-4	Davit Mast, Aluminum 8-5/8" Dia. X 4'-0" Tall, for mating with SM-DVT-ARM-GR-8	
		SM-DVT-MST-GR-8-5	Davit Mast, Aluminum 8-5/8" Dia. X 5'-0" Tall, for mating with SM-DVT-ARM-GR-8	
4	Davit Sockets & Adaptors for Ground Rigged t	SM-DVT-MST-GR-8-6	Davit Mast, Aluminum 8-5/8" Dia. X 6'-8" Tall, for mating with SM-DVT-ARM-GR-8	
		SM-DVT-SKX-GR-6	Davit Portable Adapter: for socket and mast, ground launch, 6'-6" reach, 1,250#, or 6'-6" reach 1,000# FED, galv (Mates W/Socket)	
			Davit Portable Socket: for adaptor and mast, ground launch, 8'-6" reach, 1,250#, or 8'-6" reach 1,000# FED, galv (Mates W/Adaptor)	
6'-6" Reach Boom with 5'-0" Mast Height			TOTAL PER ARM ASSEMBLY: includes 5'-0" Mast and Socket	
8'-6" Reach Boom with 5'-0" Mast Height			TOTAL PER ARM ASSEMBLY: With 5'-0" Mast includes 5'-0" Mast and Socket	

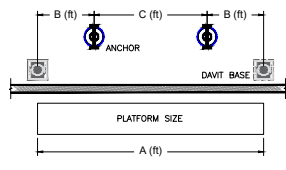
SUMMIT ANCHOR - ROOF RIGGED DAVIT FOR SWING STAGE OPERATIONS



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STANDARD LAYOUT FOR DAVIT AND ANCHOR

SPACING DAVIT TO DAVIT A (ft)	SPACING ANCHOR TO DAVIT B (ft)	SPACING ANCHOR TO ANCHOR C (ft)
15	7.50	4.50
20	10.00	6.00
25	12.50	7.50
30	15.00	9.00

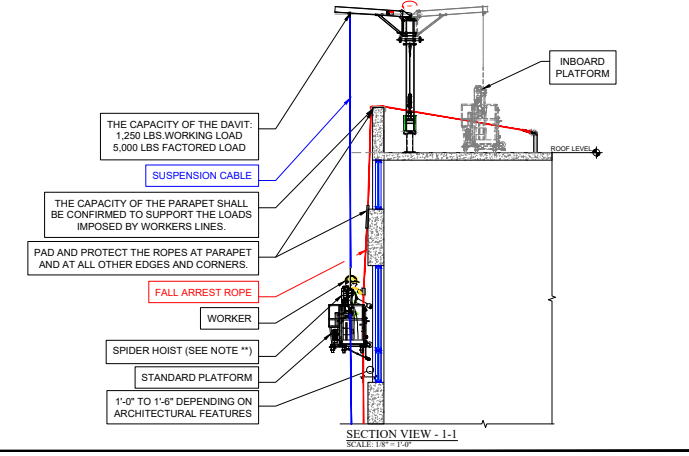


****SPIDER PLATFORM SPECIFICATIONS**

PI SPIDER SC1000 HOIST ALL INCLUDE A 125% OVERLOAD

- MOTOR WILL SHUT OFF IF LOAD EXCEEDS 1,250 LB FOR A 1,000 LB RATED HOIST
- MOTOR WILL SHUT OFF IF LOAD EXCEEDS 1,562 LB FOR A 1,250 LB RATED LOAD

THE SPIDER HOIST MEETS THE REQUIREMENTS OF UL1323 AND OSHA 1910.66



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DAVIT TEMPLATE GUIDE FOR ROOF RIGGED PLATFORM

A-1

ROOF RIGGED DAVIT ASSEMBLY

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Your one stop provider for all fall protection, suspended maintenance equipment, installation and testing.

FEATURES:

- TOP ROTATING ARM ALLOWS FOR ROOF RIGGING AND GROUND RIGGING OF PLATFORM
- DAVIT ARM ASSEMBLY IS INTENDED TO BE TRANSPORTED FROM DAVIT BASE TO DAVIT BASE
- LOW STALL LOADS OF SPIDER HOIST REDUCE OVERLOAD POTENTIAL OF DAVIT ARM ASSEMBLY

LOADS IMPOSED ON THE BUILDING STRUCTURE AS FOLLOWS

MODEL #	MAST REACH	ARM REACH	WORKING LOAD	FACTORED LOAD	FACTORED MOMENT IN ANY VERTICAL PLANE (A) KIPS	(B) KIP-IN	
6'-6" REACH	10'	6'-6"	1,000LB	4,000K	26.51 K-FT	1.0	29
	12'-6"	6'-6"	1,000LB	4,000K	35.90 K-FT	1.25	37.5
8'-6" REACH	10'	8'-6"	1,250LB	5,000K	37.54 K-FT	1.25	37.5
	12'-6"	8'-6"	1,250LB	5,000K	46.78 K-FT	1.25	127.5
10'-6" REACH	10'	10'-6"	1,500LB	6,000K	38.82 K-FT	1.0	102
	12'-6"	10'-6"	1,500LB	6,000K	48.19 K-FT	1.0	127.5
12'-6" REACH	10'	12'-6"	1,500LB	6,000K	48.19 K-FT	1.25	127.5
	12'-6"	12'-6"	1,500LB	6,000K	68.11 K-FT	1.25	127.5

SPIDER PLATFORM SPECIFICATION:

PI SPIDER SC1000 HOISTS ALL INCLUDE A 125% OVERLOAD

- MOTOR WILL SHUT OFF IF LOAD EXCEEDS 1250 LB FOR A 1000 LB RATED HOIST
- MOTOR WILL SHUT OFF IF LOAD EXCEEDS 1562 LB FOR A 1250 LB RATED HOIST

THE SPIDER HOIST MEETS THE REQUIREMENTS OF UL1323 AND OSHA 1910.66

APPROPRIATE DAVIT BASE:

- 6'-6" REACH - 1,000 LBS. WORKING LOAD - 4,000 LBS. FACTORED LOAD
- 8'-6" REACH - 1,250 LBS. WORKING LOAD - 5,000 LBS. FACTORED LOAD
- 10'-6" REACH - 1,500 LBS. WORKING LOAD - 6,000 LBS. FACTORED LOAD
- 12'-6" REACH - 1,500 LBS. WORKING LOAD - 6,000 LBS. FACTORED LOAD

DAVIT BASE MKT FOR TOP ROTATING ARM

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Tel: 301.874.4941, Fax: 301.620.9819
Toll Free: 800.372.1098 Web: www.summitanchor.com

ITEM	CATEGORY	MODEL NUMBER	DESCRIPTION	WEIGHT
1	Top Rotating Arm	SM-DVT-ARM-TR-6 (MST-TR-8-10)	Davit Arm, 6'-6" reach, Mast-10' top-rotating for roof launch, 1,000#, w/slider, FED OSHA	
		SM-SM-DVT-ARM-TR-8 (MST-TR-8-10)	Davit Arm, 8'-6" reach, Mast-10' top-rotating for roof launch, 1,000#, w/slider, FED	115 lbs
2	Davit, Component, Mast	SM-SM-DVT-MST-TR-8-10	Davit Mast, Aluminum 8-5/8" Dia. X 10'-0" Tall, for mating with SM-DVT-ARM-8-1250	140 lbs
		SM-SM-DVT-MST-TR-8-12.5	Davit Mast, Aluminum 8-5/8" Dia. X 12'-6" Tall, for mating with SM-DVT-ARM-8-1250	
3	Davit, Rotation Equipment	SM-SM-DVT-RCO-8	Davit; Lifting and leverage Collar with Handle for ground rigged and top-rotating arm, galv.	
4	Davit, Transport Equipment	SM-SM-DVT-DOL-8	Davit; Dolly with casters for transport of ground rigged and top-rotating arm, galv.	
5	Davit, Lifting Equipment	SM-SM-DVT-WIN	Davit Winch; to raise/lower top-rotating arm, Tractel Model# T-17 requires lifting bracket	
6	Davit, Lifting Equipment	SM-SM-DVT-WIN-BRK-TR	Davit Winch Attachment Bracket; for pedestal socket and top-rotating arm, galv.	
7	Davit Sockets & Adaptors for Ground Rigged	SM-SM-DVT-SKX-TR-6-1250	Davit Portable Adaptor: for socket and mast, roof launch, 6'-6" reach, 1,250#, or 6'-6" reach 1,000# FED, galv (Mates W/ Socket)	
		SM-SM-DVT-SKX-TR-8-1250	Davit Portable Adaptor: for socket and mast, roof launch, 8'-6" reach, 1,250#, or 8'-6" reach 1,000# FED, galv (Mates W/ Socket)	
6'-6" Reach Boom with 10'-0" Mast Height			TOTAL PER ARM ASSEMBLY: includes 10'-0" Mast, Socket, and lifting kit.	
8'-6" Reach Boom with 10'-0" Mast Height				

SUMMIT ANCHOR - DAVIT AND ANCHORAGE FOR ROPE DESCENT SYSTEM

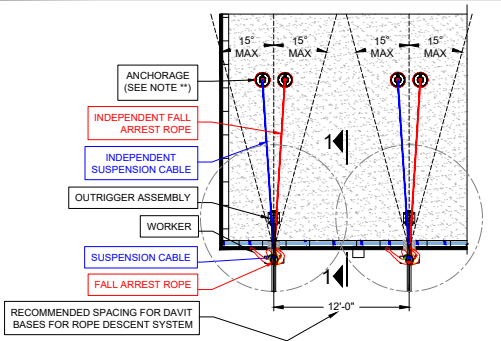
*ANSI/MCA-114.1 ROPE DESCENT SYSTEM (RDS)

5.7.10 WHILE SUSPENDED, WINDOW CLEANERS SHALL NOT REACH FURTHER THAN SIX (6) FEET (1.8M) IN ANY DIRECTION AS MEASURED FROM PLUMB LINE OF THE SUSPENSION POINT ON THE BEARING POINT ON THE BUILDING. RAPID DESCENTS, EXCESSIVE SWINGING AND SUDDEN STOPS ARE PROHIBITED.

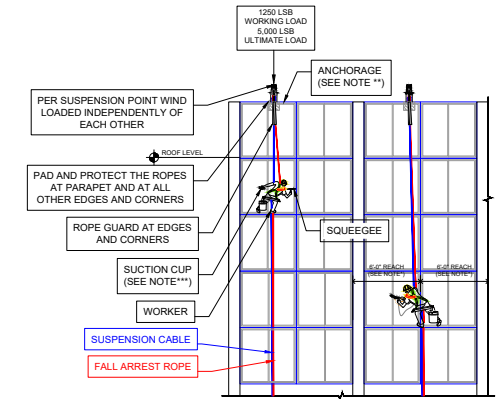
9.1.8 ANCHORAGES SHALL BE UNOBSTRUCTED AND LOCATED BEHIND AND IN LINE WITH THE EQUIPMENT OR PORTION OF THE BUILDING THEY ARE INTENDED TO SERVICE AND SHALL BE FREE OF SHARP EDGES THAT MAY CAUSE DAMAGE TO THE APPURTENANCES ATTACHED TO THEM.

** OSHA'S SUBPART D - WALKING - WORKING SURFACES REQUIRES "EACH EMPLOYEE TO USE A SEPARATE INDEPENDENT FALL ARREST SYSTEM" THIS MEANS THAT EACH WORKER MUST HAVE THEIR OWN PRIMARY SUPPORT LINE CONNECTED TO ONE ANCHORAGE AND AN INDEPENDENT FALL ARREST SYSTEM CONNECTED TO AN INDEPENDENT ANCHORAGE. AN INDEPENDENT FALL ARREST ANCHORAGE IS REQUIRED FOR RDS.

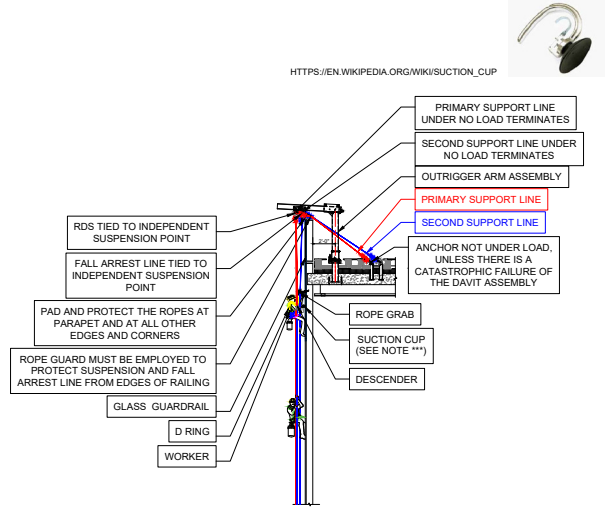
*** OSHA'S SUBPART D - WALKING - WORKING SURFACES REQUIRES STABILIZATION AT THE SPECIFIC WORK LOCATION WHEN DESCENTS ARE GREATER THAN 130 FEET. OSHA HAS DETERMINED THAT STABILIZATION CAN BE SOMETHING AS SIMPLE AS A SUCTION CUP.



PLAN VIEW - OUTRIGGER & ANCHOR LOCATION PLAN
SCALE: 1/8" = 1'-0"




FRONT VIEW
SCALE: 1/8" = 1'-0"



SECTION VIEW
SCALE: 1/8" = 1'-0"



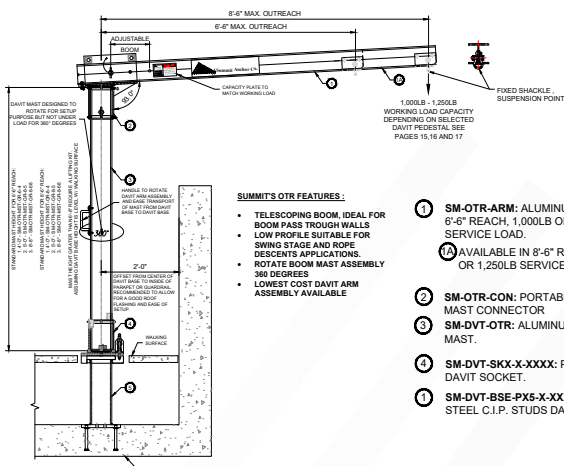
DATE	11/11/2020
DESIGNED BY	M. Andrews
CHECKED BY	S. Brown
APPROVED BY	
OUTRIGGER TEMPLATE GUIDE FOR ROPE DESCENT SYSTEM	
A-3	



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OUTRIGGER ASSEMBLY FOR RDS
SUMMIT MODEL(S): PER TABLE



SUMMIT'S OTR FEATURES:

- TELESCOPING BOOM, IDEAL FOR BOOM PASS TROUGH WALLS
- LOW PROFILE SUITABLE FOR SWING STAGE AND ROPE DESCENTS APPLICATIONS.
- ROTATE BOOM MAST ASSEMBLY 360 DEGREES
- LOWEST COST DAVIT ARM ASSEMBLY AVAILABLE

- SM-OTR-ARM:** ALUMINUM BOOM ARM 6'-6" REACH, 1,000LB OR 1,250LB SERVICE LOAD.
AVAILABLE IN 8'-6" REACH, 1,000LB OR 1,250LB SERVICE LOAD.
- SM-OTR-CON:** PORTABLE BOOM TO MAST CONNECTOR
- SM-DVT-OTR:** ALUMINUM PORTABLE MAST.
- SM-DVT-SKX-X-XXXX:** PORTABLE DAVIT SOCKET.
- SM-DVT-BSE-PX5-X-XXXX:** GALV. STEEL C.I.P. STUPS DAVIT PEDESTAL.

SPECIFY DAVIT CAPACITY DESIRED FOR APPLICATION, THEN SELECT APPROPRIATE DAVIT BASE:

- 6'-6" REACH - 1,000 LBS. WORKING LOAD - 4,000 LBS. FACTORED LOAD
- 6'-6" REACH - 1,250 LBS. WORKING LOAD - 5,000 LBS. FACTORED LOAD
- 8'-6" REACH - 1,000 LBS. WORKING LOAD - 4,000 LBS. FACTORED LOAD
- 8'-6" REACH - 1,250 LBS. WORKING LOAD - 5,000 LBS. FACTORED LOAD

SUMMIT'S OTR FEATURES:

- TELESCOPING BOOM, IDEAL FOR BOOM PASS TROUGH WALLS
- LOW PROFILE SUITABLE FOR SWING STAGE AND ROPE DESCENTS APPLICATIONS.
- ROTATE BOOM MAST ASSEMBLY 360 DEGREES
- LOWEST COST DAVIT ARM ASSEMBLY AVAILABLE

OUTRIGGER FOR RDS

SM-DVT-BSE-PX5-XXXX DRAWING NO. PLAT SCALE: 1:1 PAGE NO. 2 OF 2

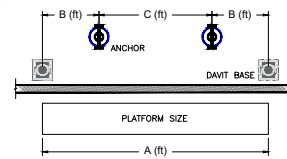
ITEM	CATEGORY	MODEL NUMBER	DESCRIPTION	WEIGHT
1	Davit Telescoping Ground Rigged Arm/ Mast	SM-ORT-ARM-GR-6 (MST-6-5)	Telescoping Davit Arm, 6'-6" reach, Mast -5' height for ground-launch, w/ suspension slider, FED	
		SM-ORT-ARM-GR-8 (MST-8-5)	Telescoping Davit Arm, 8'-6" reach, Mast -5' height for ground-launch, w/ suspension slider, FED	
2	Davit, Component, Mast	SM-ORT-MAST-6-4	Davit Mast, Aluminum 6-5/8" Dia. X 4'-0" Tall, for mating with SM-ORT-GR-8	
		SM-ORT-MST-6-5	Davit Mast, Aluminum 6-5/8" Dia. X 5'-0" Tall, for mating with SM-ORT-GR-8	
		SM-ORT-MST-6-6	Davit Mast, Aluminum 6-5/8" Dia. X 8'-0" Tall, for mating with SM-ORT-GR-8	
3	Davit, Component, Mast	SM-ORT-MST-8-4	Davit Mast, Aluminum 8-5/8" Dia. X 4'-0" Tall, for mating with SM-ORT-GR-8	
		SM-ORT-MST-8-5	Davit Mast, Aluminum 8-5/8" Dia. X 5'-0" Tall, for mating with SM-ORT-GR-8	
		SM-ORT-MST-8-86	Davit Mast, Aluminum 8-5/8" Dia. X 8'-0" Tall, for mating with SM-ORT-GR-8	
4	Davit Sockets & Adaptors for Ground Rigged	SM-DVT-SKX-6-1250	Davit Portable Socket: for adaptor and mast, ground launch, 6'-6" reach, or 6'-6" reach 1,000# FED, galv (Mates W/ Adaptor)	
		SM-DVT-SKX-8-1250	Davit Portable Socket: for adaptor and mast, ground launch, 8'-6" reach, or 8'-6" reach 1,000# FED, galv (Mates W/ Adaptor)	
6'-6" Reach Boom with 5'-0" Mast Height			TOTAL PER ARM ASSEMBLY includes 5'-0" Mast and Socket	
8'-6" Reach Boom with 5'-0" Mast Height				

SUMMIT ANCHOR - GROUND RIGGED DAVIT FOR SWING STAGE OPERATIONS

- GENERAL NOTES**
- DAVIT SPACING MAY VARY DEPENDING ON ROOF CONDITIONS; HOWEVER, SPACING SHOULD BE KEPT AS CONSISTENT AS POSSIBLE TO ALLOW FOR STANDARD POWERED PLATFORM LENGTH.
 - EACH WORKER MUST BE INDEPENDENTLY TIED TO AN ANCHOR ON THE ROOF OR INDEPENDENTLY TIED TO RIGGING SLEEVE.
 - PLACEMENT OF DAVITS AND ROOF ANCHORS SHALL ALLOW CABLES SUSPENDING POWERED PLATFORM TO HANG PARALLEL AND IN PLANE OR SLIGHTLY ANGULATED WITH THE BUILDING WHEN IN USE AND TO ALLOW THE PLATFORM TO PRESS FIRMLY AGAINST THE BUILDING DURING ITS VERTICAL TRAVEL.

STANDARD LAYOUT FOR DAVIT AND ANCHOR

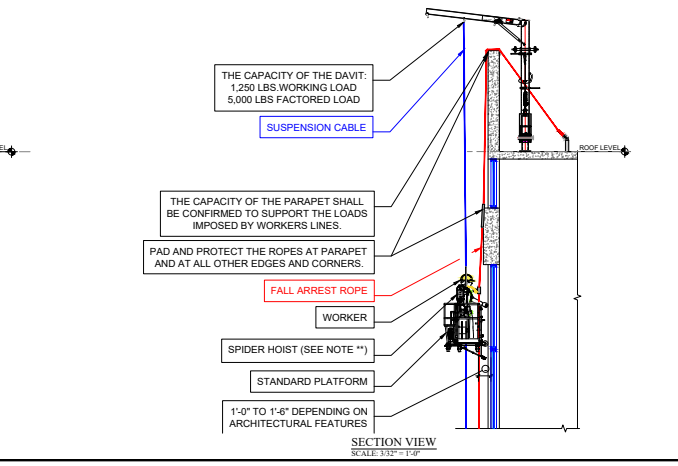
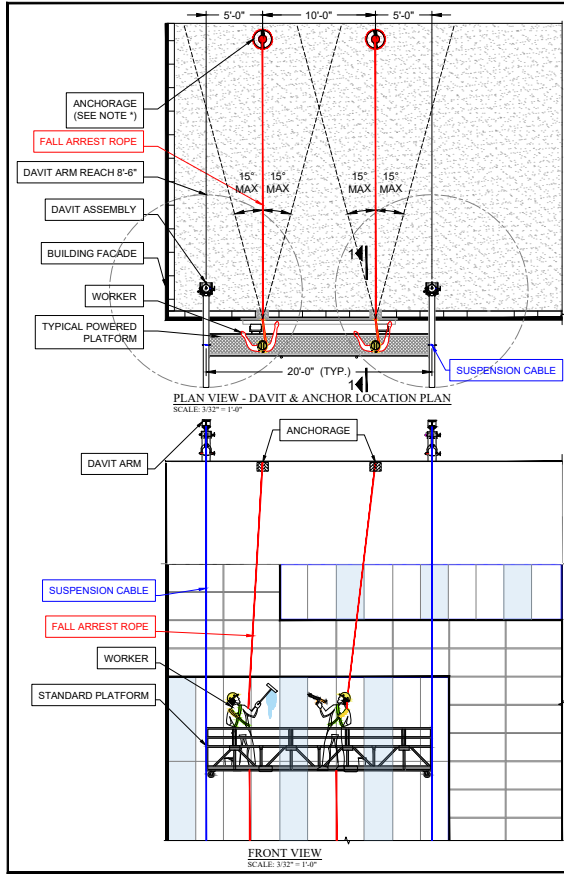
SPACING DAVIT TO ANCHOR	SPACING ANCHOR TO ANCHOR	SPACING ANCHOR TO DAVIT
10	8	8
15	8	8
20	8	8
25	8	8
30	8	8



OSHA'S SUBPART D - WALKING - WORKING SURFACES REQUIRES "EACH EMPLOYEE TO USE A SEPARATE INDEPENDENT FALL ARREST SYSTEM." THIS MEANS THAT EACH WORKER MUST HAVE THEIR OWN PRIMARY SUPPORT LINE CONNECTED TO ONE ANCHORAGE AND AN INDEPENDENT FALL ARREST SYSTEM CONNECTED TO AN INDEPENDENT ANCHORAGE. AN INDEPENDENT FALL ARREST ANCHORAGE IS REQUIRED FOR RDS.

****SPIDER PLATFORM SPECIFICATIONS**

PI SPIDER SC1000 HOIST ALL INCLUDE A 125% OVERLOAD
 - MOTOR WILL SHUT OFF IF LOAD EXCEEDS 1,250 LB FOR A 1,000 LB RATED HOIST
 - MOTOR WILL SHUT OFF IF LOAD EXCEEDS 1,562 LB FOR A 1,250 LB RATED LOAD.
 THE SPIDER HOIST MEETS THE REQUIREMENTS OF UL1323 AND OSHA 1910.66



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DAVIT TEMPLATES GUIDE FOR GROUND RIGGED PLATFORM

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ROOF RIGGED DAVIT ASSEMBLY

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SPECIFY DAVIT CAPACITY DESIRED FOR APPLICATION, THEN SELECT APPROPRIATE DAVIT BASE:

- 6'-6" REACH - 1,000 LBS. WORKING LOAD - 4,000 LBS. FACTORED LOAD
- 6'-6" REACH - 1,250 LBS. WORKING LOAD - 5,000 LBS. FACTORED LOAD
- 8'-6" REACH - 1,000 LBS. WORKING LOAD - 4,000 LBS. FACTORED LOAD
- 8'-6" REACH - 1,250 LBS. WORKING LOAD - 5,000 LBS. FACTORED LOAD

MODEL #	MAST HEIGHT	ARM REACH	WORKING LOAD	FACTORED LOAD	FACTORED MOMENT IN ANY VERTICAL PLANE (A) (K)PS	(B) KIP-IN
6'-6" REACH	10'	6'-6"	1,000LB	4,000 K	20,231 K-FT	1.0 75
	12'-6"	6'-6"	1,000LB	4,000 K	20,231 K-FT	1.0 75
6'-6" REACH	10'	6'-6"	1,250LB	5,000 K	25,288 K-FT	1.25 97.5
	12'-6"	6'-6"	1,250LB	5,000 K	25,288 K-FT	1.25 97.5
8'-6" REACH	10'	6'-6"	1,000LB	4,000 K	38,421 K-FT	1.6 102
	12'-6"	6'-6"	1,000LB	4,000 K	38,421 K-FT	1.6 102
8'-6" REACH	10'	6'-6"	1,250LB	5,000 K	46,776 K-FT	1.9 127.5
	12'-6"	6'-6"	1,250LB	5,000 K	46,776 K-FT	1.9 127.5

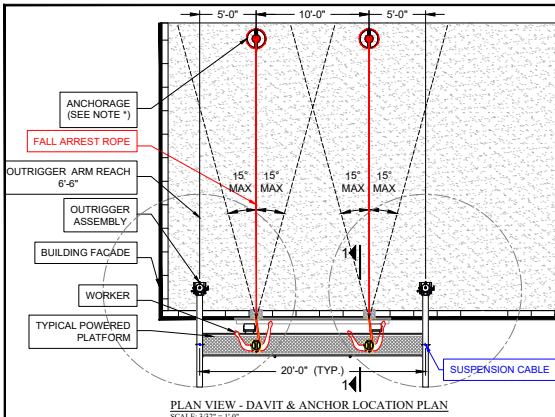
SPIDER PLATFORM SPECIFICATION:

PI SPIDER SC1000 HOISTS ALL INCLUDE A 125% OVERLOAD.
 - MOTOR WILL SHUT OFF IF LOAD EXCEEDS 1250 LB FOR A 1000 LB RATED HOIST
 - MOTOR WILL SHUT OFF IF LOAD EXCEEDS 1562 LB FOR A 1250 LB RATED HOIST
 THE SPIDER HOISTS MEETS THE REQUIREMENTS OF UL1323 AND OSHA 1910.66

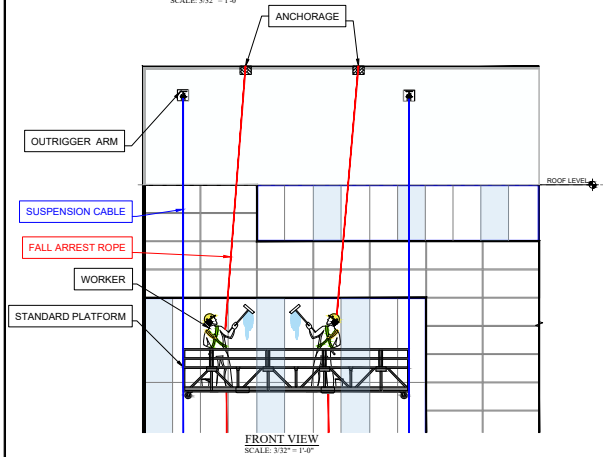
Summit Anchor Co.
 DAVIT BASE MKT FOR TOP ROTATING ARM
 MODEL: SM-DVT-BSE-X-MODEL-#
 DRAWING NO.: #
 PAGE NO. #

ITEM	CATEGORY	MODEL NUMBER	DESCRIPTION	WEIGHT
1	Davit Ground Rigged Arm/Mast	SM-DVT-ARM-GR-6 (MST-8-10)	Davit Arm, 6'-6" reach, Mast -10' top-rotating for roof launch, 1,000#, w/slider, FED OSHA	
		SM-DVT-ARM-GR-8 (MST-8-10)	Davit Arm, 8'-6" reach, Mast -10' height for ground-launch, 1,250#, w/slider, FED OSHA	
2	Davit, Component, Mast	SM:SM-DVT-MST-TR-8-10	Davit Mast, Aluminum 8-5/8" Dia. X 10'-0" Tall, for mating with SM-DVT-ARM-8-1250	
3/5	Davit, Rotation Equipment	SM:SM-DVT-RCO-8	Davit; Rotation Collar with Handle for ground rigged and top-rotating arm, galv.	
4	Davit, Transport Equipment	SM:SM-DVT-DOL-8	Davit; Dolly with casters for transport of ground rigged and top-rotating arm, galv.	
6	Davit, Lifting Equipment	SM:SM-DVT-WIN	Davit Winch: to raise/lower top-rotating arm, Tractel Model# T-17 requires lifting bracket	
7	Davit, Lifting Equipment	SM:SM-DVT-WIN-BRK-GR	Davit Winch Attachment Bracket; for pedestal socket and top-rotating arm, galv.	
8	Davit Sockets & Adaptors for Ground Rigged	SM-DVT-ADP-R-8	Davit Portable Socket: for adaptor and mast, ground launch, 8'-6" reach, 1,250#, or 8'-6" reach 1,000# FED, galv (Mates W/ Adaptor)	
		SM-DVT-SKP-P-1000	Davit Portable Adaptor: for socket and mast, ground launch, 8'-6" reach, 1,250#, or 8'-6" reach 1,000# FED, galv (Mates W/Socket)	
6'-6" Reach Boom with 10'-0" Mast Height			TOTAL PER ARM ASSEMBLY: Includes 10'-0" Mast and Socket	
8'-6" Reach Boom with 10'-0" Mast Height			TOTAL PER ARM ASSEMBLY: With 5'-0" Mast Includes 10'-0" Mast and Socket	

SUMMIT ANCHOR - GROUND RIGGED DAVIT



PLAN VIEW - DAVIT & ANCHOR LOCATION PLAN
SCALE: 3/32" = 1'-0"



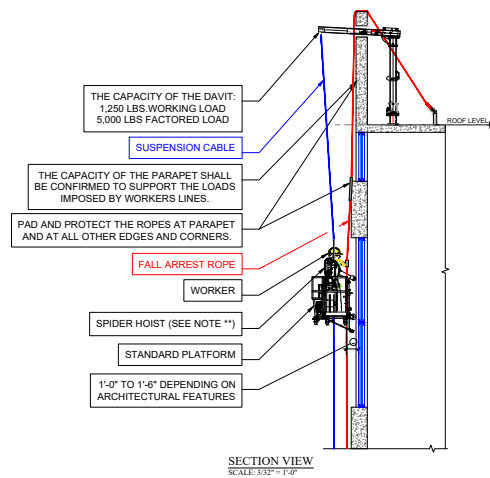
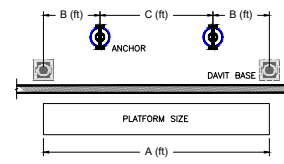
FRONT VIEW
SCALE: 3/32" = 1'-0"

- GENERAL NOTES**
1. DAVIT SPACING MAY VARY DEPENDING ON ROOF CONDITIONS; HOWEVER, SPACING SHOULD BE KEPT AS CONSISTENT AS POSSIBLE TO ALLOW FOR STANDARD POWERED PLATFORM LENGTH.
 2. EACH WORKER MUST BE INDEPENDENTLY TIED TO AN ANCHOR ON THE ROOF OR INDEPENDENTLY TIED TO RIGGING SLEEVE.
 3. PLACEMENT OF DAVITS AND ROOF ANCHORS SHALL ALLOW CABLES SUSPENDING POWERED PLATFORM TO HANG PARALLEL AND IN PLANE OR SLIGHTLY ANGULATED WITH THE BUILDING WHEN IN USE AND TO ALLOW THE PLATFORM TO PRESS FIRMLY AGAINST THE BUILDING DURING ITS VERTICAL TRAVEL.

*OSHA'S SUBPART D - WALKING - WORKING SURFACES REQUIRES "EACH EMPLOYEE TO USE A SEPARATE INDEPENDENT FALL ARREST SYSTEM." THIS MEANS THAT EACH WORKER MUST HAVE THEIR OWN PRIMARY SUPPORT LINE CONNECTED TO ONE ANCHORAGE AND AN INDEPENDENT FALL ARREST SYSTEM CONNECTED TO AN INDEPENDENT ANCHORAGE. AN INDEPENDENT FALL ARREST ANCHORAGE IS REQUIRED FOR RDS.

*SPIDER PLATFORM SPECIFICATIONS
R SPIDER SC1000 HOIST ALL INCLUDE A 125% OVERLOAD
- MOTOR WILL SHUT OFF IF LOAD EXCEEDS 1,250 LB FOR A 1,000 LB RATED HOIST
- MOTOR WILL SHUT OFF IF LOAD EXCEEDS 1,562 LB FOR A 1,250 LB RATED LOAD.
THE SPIDER HOIST MEETS THE REQUIREMENTS OF UL1323 AND OSHA 1910.66

SPACING DAVIT TO DAVIT A (ft)	SPACING ANCHOR TO DAVIT B (ft)	SPACING ANCHOR TO ANCHOR C (ft)
10	2.50	5.00
15	3.75	7.50
20	5.00	10.00
25	6.25	12.50
30	7.50	15.00
35	8.75	17.50
40	10.00	20.00
45	11.25	22.50
50	12.50	25.00



SECTION VIEW
SCALE: 3/32" = 1'-0"

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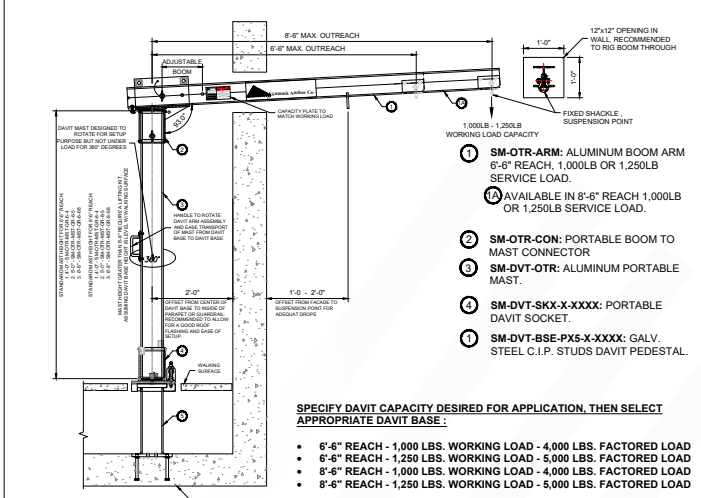
DATE	REV.	DESCRIPTION
12-09-2009	1	ISSUED FOR CONSTRUCTION
12-09-2009	2	REVISION: M. Anwar
12-09-2009	3	REVISION: G. Starn
12-09-2009	4	REVISION: G. Starn

DAVIT TEMPLATE GUIDE FOR GROUND RIGGED PLATFORM

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GROUND RIGGED OUTRIGGER ASSEMBLY

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ITEM	CATEGORY	MODEL NUMBER	DESCRIPTION	WEIGHT
1	Davit Telescoping Ground Rigged Arm/Mast	SM-OTR-ARM-GR-6 (MST-6-5)	Telescoping Davit Arm, 6'-6" reach, Mast-5' height for ground-launch, 1,250#, w/suspension slider, FED	
		SM-OTR-ARM-GR-8 (MST-8-5)	Telescoping Davit Arm, 8'-6" reach, Mast-5' height for ground-launch, 1,250#, w/suspension slider, FED	
2	Davit Component; Mast	SM-SM-OTR-MAST-8-4	Davit Mast, Aluminum 8-5/8" Dia. X 4'-0" Tall, for mating with SM-DVT-ARM-8-1250	
		SM-SM-OTR-MAST-8-5	Davit Mast, Aluminum 8-5/8" Dia. X 5'-0" Tall, for mating with SM-DVT-ARM-8-1250	
		SM-SM-OTR-MAST-8-6	Davit Mast, Aluminum 8-5/8" Dia. X 6'-0" Tall, for mating with SM-DVT-ARM-8-1250	
3	Davit Sockets & Adaptors for Ground Rigged	SM-SM-DVT-SKX-6-1000	Davit Portable Socket: for adaptor and mast, ground launch, 6'-6" reach, 1,250#, or 6'-6" reach 1,000# FED, galv (Mates W/Adaptor)	
		SM-SM-DVT-SKX-8-1250	Davit Portable Socket: for adaptor and mast, ground launch, 8'-6" reach, 1,250#, or 8'-6" reach 1,000# FED, galv (Mates W/Adaptor)	
			6'-6" Reach Boom with 10'-0" Mast Height	
			8'-6" Reach Boom with 10'-0" Mast Height	
			TOTAL PER ARM ASSEMBLY includes 10'-0" Mast and Socket	

SUMMIT'S OTR FEATURES:

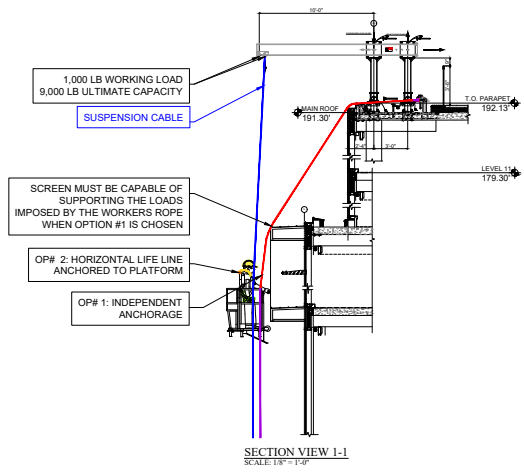
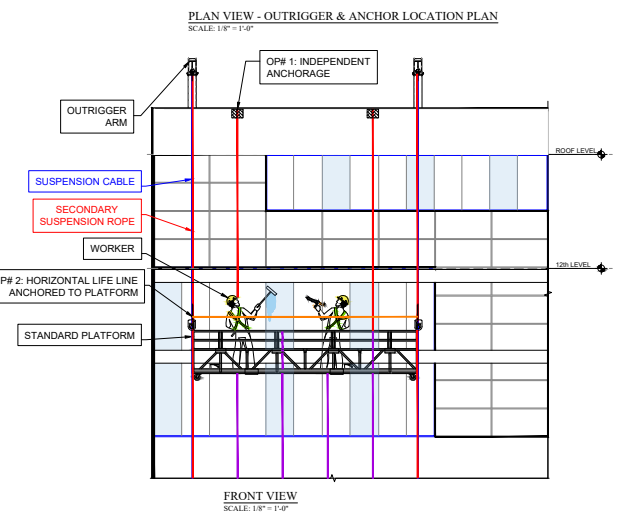
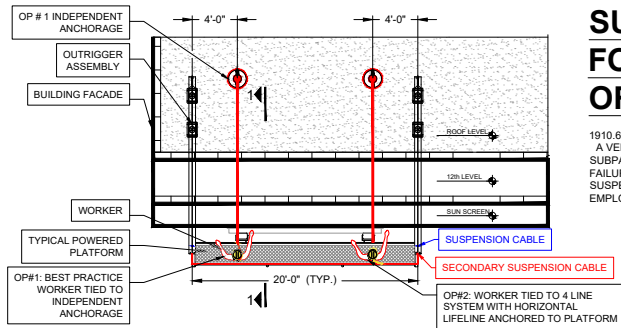
- TELESCOPING BOOM, IDEAL FOR BOOM PASS THROUGH WALLS
- LOW PROFILE SUITABLE FOR SWING STAGE AND ROPE DESCENTS APPLICATIONS.
- ROTATE BOOM MAST ASSEMBLY 360 DEGREES
- LOWEST COST DAVIT ARM ASSEMBLY AVAILABLE

DAVIT BASE MKT

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Toll Free: 800.372.1098 Web: www.summitanchor.com

SUMMIT ANCHOR - OUTRIGGER ASSEMBLY FOR SWING WITH INDEPENDENT ANCHORS OR 4-LINE STAGE SYSTEM

1910.66(V)(5)(II)(M)
 A VERTICAL LIFELINE SHALL BE PROVIDED AS PART OF PERSONAL FALL ARREST SYSTEM THAT MEETS THE REQUIREMENTS OF SUBPART I OF THIS PART FOR EACH EMPLOYEE ON A WORKING PLATFORM SUSPENDED BY TWO OR MORE WIRE ROPES, IF THE FAILURE OF ONE WIRE ROPE OR SUSPENSION ATTACHMENT WILL CAUSE THE PLATFORM TO UPSET. IF SECONDARY WIRE ROPE SUSPENSION IS USED, VERTICAL LIFELINES ARE NOT REQUIRED FOR THE PERSONAL FALL ARREST SYSTEM, PROVIDED THAT EACH EMPLOYEE IS ATTACHED TO A HORIZONTAL LIFELINE ANCHORED TO THE PLATFORM.



DATE	REV. NO.	DESCRIPTION
08/20/20	1	ISSUED FOR CONSTRUCTION
08/20/20	2	REVISED TO ADD OP#2 OPTION

OUTRIGGER TEMPLATE GUIDE FOR SWING STAGE SYSTEM

A-4

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GROUND RIGGED OTR ASSEMBLY

SPIDER PLATFORM SPECIFICATION:

- PI SPIDER SC1000 HOISTS ALL INCLUDE A 125% OVERLOAD.
- MOTOR WILL SHUT OFF IF LOAD EXCEEDS 1250 LB FOR A 1000 LB RATED HOIST
- MOTOR WILL SHUT OFF IF LOAD EXCEEDS 1562 LB FOR A 1250 LB RATED HOIST
- THE SPIDER HOISTS MEETS THE REQUIREMENTS OF UL1323 AND OSHA 1910.66.

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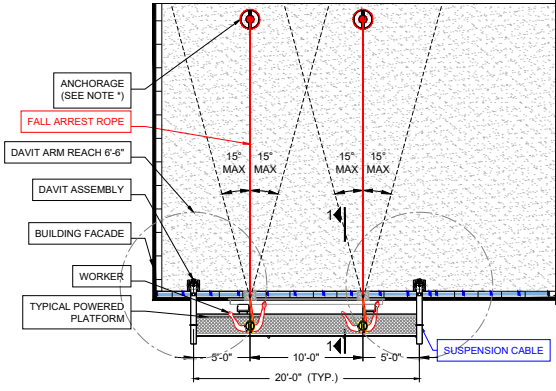
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DAVID BASE MKT FOR LONG OUTREACH OTR
 DRAWING NO. 20-001-001
 SCALE: 1/4" = 1'-0"
 PAGE NO. 1

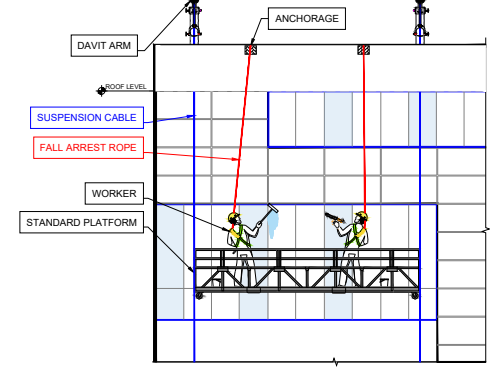


SUMMIT ANCHOR - GROUND RIGGED WALL DAVIT FOR SWING STAGE OPERATIONS

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PLAN VIEW - DAVIT & ANCHOR LOCATION PLAN
 SCALE: 3/32" = 1'-0"



FRONT VIEW
 SCALE: 3/32" = 1'-0"

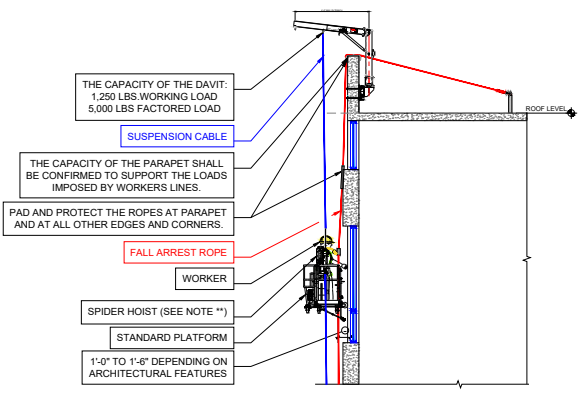
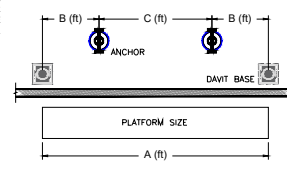
- GENERAL NOTES**
1. DAVIT SPACING MAY VARY DEPENDING ON ROOF CONDITIONS; HOWEVER, SPACING SHOULD BE KEPT AS CONSISTENT AS POSSIBLE TO ALLOW FOR STANDARD POWERED PLATFORM LENGTH.
 2. EACH WORKER MUST BE INDEPENDENTLY TIED TO AN ANCHOR ON THE ROOF OR INDEPENDENTLY TIED TO RIGGING SLEEVE.
 3. PLACEMENT OF DAVITS AND ROOF ANCHORS SHALL ALLOW CABLES SUSPENDING POWERED PLATFORM TO HANG PARALLEL AND IN PLANE OR SLIGHTLY ANGLATED WITH THE BUILDING WHEN IN USE AND TO ALLOW THE PLATFORM TO PRESS FIRMLY AGAINST THE BUILDING DURING ITS VERTICAL TRAVEL.

OSHA'S SUBPART D - WALKING - WORKING SURFACES REQUIRES "EACH EMPLOYEE TO USE A SEPARATE INDEPENDENT FALL ARREST SYSTEM." THIS MEANS THAT EACH WORKER MUST HAVE THEIR OWN PRIMARY SUPPORT LINE CONNECTED TO ONE ANCHORAGE AND AN INDEPENDENT FALL ARREST SYSTEM CONNECTED TO AN INDEPENDENT ANCHORAGE. AN INDEPENDENT FALL ARREST ANCHORAGE IS REQUIRED FOR RDS.

**SPIDER PLATFORM SPECIFICATIONS
 PI SPIDER SC1000 HOIST ALL INCLUDE A 125% OVERLOAD
 - MOTOR WILL SHUT OFF IF LOAD EXCEEDS 1,250 LB FOR A 1,000 LB RATED HOIST
 - MOTOR WILL SHUT OFF IF LOAD EXCEEDS 1,562 LB FOR A 1,250 LB RATED LOAD.
 THE SPIDER HOIST MEETS THE REQUIREMENTS OF UL1323 AND OSHA 1910.66

STANDARD LAYOUT FOR DAVIT AND ANCHOR

SPACING DAVIT TO DAVIT A (ft)	SPACING ANCHOR TO DAVIT B (ft)	SPACING ANCHOR TO ANCHOR C (ft)
10	2.50	7.50
15	3.75	11.25
20	5.00	15.00
25	6.25	18.75
30	7.50	22.50



SECTION VIEW
 SCALE: 3/32" = 1'-0"

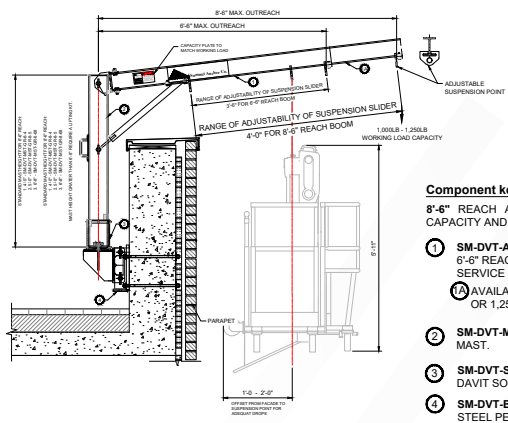
DAVIT TEMPLATES GUIDE FOR GROUND RIGGED PLATFORM

SCALE	REV.	DATE
1/8" = 1'-0"	1	12/08/2008
	2	12/08/2008
	3	12/08/2008

A-8

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DAVIT ARM ASSEMBLY FOR GROUND RIGGED SWING STAGE

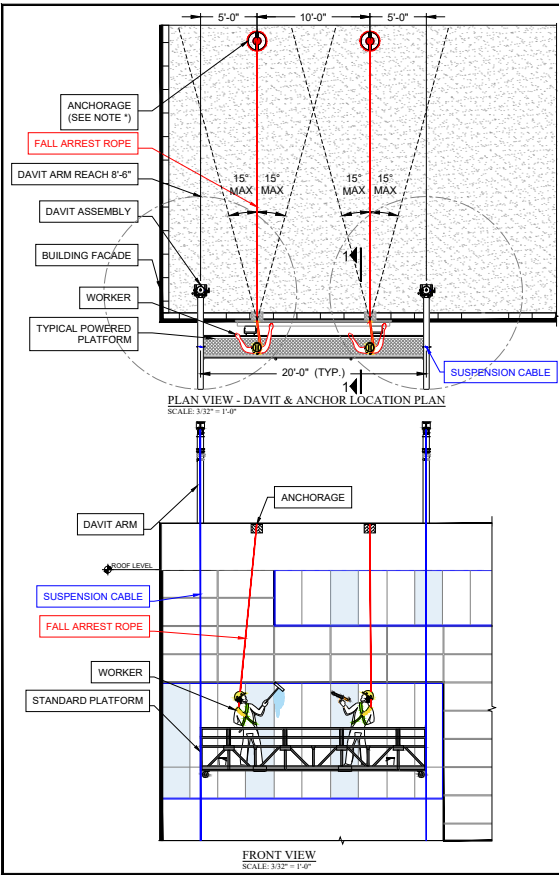


- Component key:**
 8'-6" REACH ARM WITH 1250* LBS. CAPACITY AND 5'-0" MAST
- 1 SM-DVT-ARM: ALUMINUM BOOM ARM 6'-6" REACH, 1,000LB OR 1,250LB SERVICE LOAD.
 - 2 SM-DVT-MST: ALUMINUM PORTABLE MAST.
 - 3 SM-DVT-SKX-X-XXXX: PORTABLE DAVIT SOCKET.
 - 4 SM-DVT-BSE-PX5-X-XXXX: GALV. STEEL PERMANENT C.I.P. DAVIT PEDESTAL.

ITEM	CATEGORY	MODEL NUMBER	DESCRIPTION	WEIGHT
1	Davit Ground Rigged Arm/Mast	SM-DVT-ARM-GR-6 (MST-6-5)	Davit Arm, 6'-6" reach, Mast-5' height for ground-launch, 1,250#, w/suspension slider, FED	
		SM-DVT-ARM-GR-8 (MST-8-5)	Davit Arm, 8'-6" reach, Mast-5' height for ground-launch, 1,250#, w/suspension slider, FED	
2	Davit Component; Mast	SM-SM-DVT-MAST-8-4	Davit Mast, Aluminum 8-5/8" Dia. X 4'-0" Tall, for mating with SM-DVT-ARM-8-1250	
		SM-SM-DVT-MAST-8-5	Davit Mast, Aluminum 8-5/8" Dia. X 5'-0" Tall, for mating with SM-DVT-ARM-8-1250	
		SM-SM-DVT-MAST-8-6	Davit Mast, Aluminum 8-5/8" Dia. X 8'-0" Tall, for mating with SM-DVT-ARM-8-1250	
3	Davit Sockets & Adaptors for Ground Rigged	SM-SM-DVT-SKT-W-6-1250	Davit Portable Socket: for adaptor and mast, ground launch, 6'-6" reach, 1,250#, or 6'-6" reach 1,000# FED, galv (Mates W/Adaptor)	
		SM-SM-DVT-SKT-W-8-1250	Davit Portable Socket: for adaptor and mast, ground launch, 8'-6" reach, 1,250#, or 8'-6" reach 1,000# FED, galv (Mates W/Adaptor)	
			TOTAL PER ARM ASSEMBLY	

SPIDER PLATFORM SPECIFICATION:
 PI SPIDER SC1000 HOISTS ALL INCLUDE A 125% OVERLOAD.
 - MOTOR WILL SHUT OFF IF LOAD EXCEEDS 1250 LB FOR A 1000 LB RATED HOIST
 - MOTOR WILL SHUT OFF IF LOAD EXCEEDS 1562 LB FOR A 1250 LB RATED HOIST
 THE SPIDER HOIST MEETS THE REQUIREMENTS OF UL1323 AND OSHA 1910.66.

Summit Anchor Co. logo and contact information.
 DAVIT BASE MKT FOR WALL DAVIT
 3M-DVT-BSE-PX5-XXXX
 DRAWING NO. 302-2004-111
 PAGE NO. 8



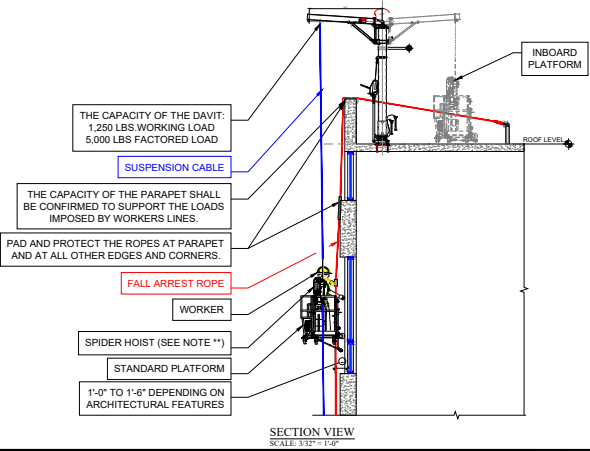
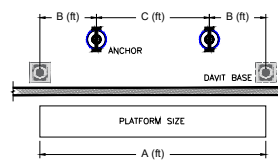
SUMMIT ANCHOR - ROOF RIGGED DAVIT FOR SWING STAGE OPERATIONS - NY

- GENERAL NOTES**
- DAVIT SPACING MAY VARY DEPENDING ON ROOF CONDITIONS; HOWEVER, SPACING SHOULD BE KEPT AS CONSISTENT AS POSSIBLE TO ALLOW FOR STANDARD POWERED PLATFORM LENGTH.
 - EACH WORKER MUST BE INDEPENDENTLY TIED TO AN ANCHOR ON THE ROOF OR INDEPENDENTLY TIED TO RIGGING SLEEVE.
 - PLACEMENT OF DAVITS AND ROOF ANCHORS SHALL ALLOW CABLES SUSPENDING POWERED PLATFORM TO HANG PARALLEL AND IN PLANE OR SLIGHTLY ANGLATED WITH THE BUILDING WHEN IN USE AND TO ALLOW THE PLATFORM TO PRESS FIRMLY AGAINST THE BUILDING DURING ITS VERTICAL TRAVEL.

STANDARD LAYOUT FOR DAVIT AND ANCHOR		
SPACING DAVIT TO ANCHOR TO DAVIT	SPACING ANCHOR TO DAVIT	SPACING ANCHOR TO ANCHOR
A (ft)	B (ft)	C (ft)
10	8	16
15	8	23
20	8	30
25	8	37
30	8	44

*OSHA'S SUBPART D - WALKING - WORKING SURFACES REQUIRES "EACH EMPLOYEE TO USE A SEPARATE INDEPENDENT FALL ARREST SYSTEM" THIS MEANS THAT EACH WORKER MUST HAVE THEIR OWN PRIMARY SUPPORT LINE CONNECTED TO ONE ANCHORAGE AND AN INDEPENDENT FALL ARREST SYSTEM CONNECTED TO AN INDEPENDENT ANCHORAGE. AN INDEPENDENT FALL ARREST ANCHORAGE IS REQUIRED FOR RDS.

***SPIDER PLATFORM SPECIFICATIONS**
 PT SPIDER SC1000 HOIST ALL INCLUDE A 125% OVERLOAD
 - MOTOR WILL SHUT OFF IF LOAD EXCEEDS 1,250 LB FOR A 1,000 LB RATED HOIST
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 THE SPIDER HOIST MEETS THE REQUIREMENTS OF UL1323 AND OSHA 1910.66



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DAVIT TEMPLATES GUIDE FOR ROOF RIGGED PLATFORM - NY

SCALE: SEE C.C.P.

DESIGNED BY: M. Avelino 12/08/2020

APPROVED BY: G. Shum 12/08/2020

DATE: 12/08/2020

PROJECT: DAVIT TEMPLATES GUIDE FOR ROOF RIGGED PLATFORM - NY

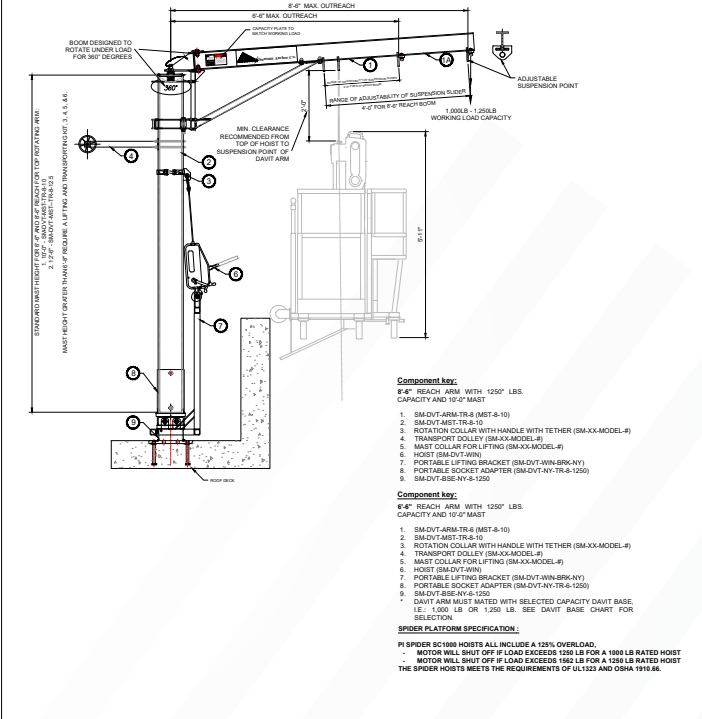
FIGURE NO. #

A-8

DAVIT ARM ASSEMBLY FOR ROOF RIGGED SWING STAGE - NY

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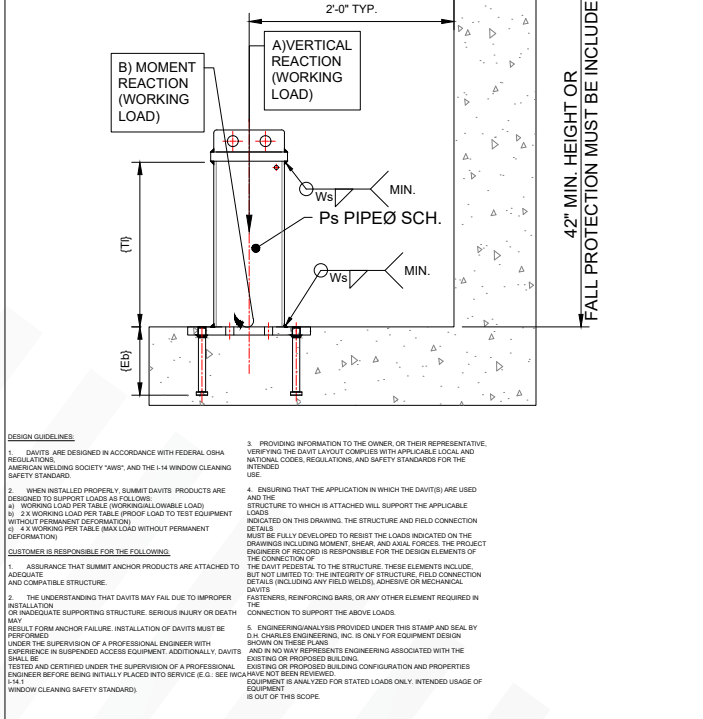
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SUMMIT STANDARD CIP DAVIT BASE - NY

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DAVIT BASE MKT FOR NY AREA

FIG. SCALE: 1:1
 DRAWING NO. #
 PAGE NO. #

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SUMMIT STANDARD CIP DAVIT BASE - NY

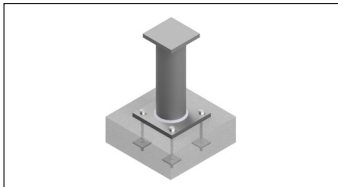
FIG. SCALE: 1:1
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Davit Pedestal Introduction

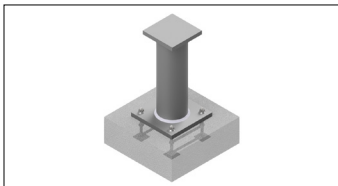
Summit's davit pedestal may be used interchangeably as recessed under walking surfaces such as roof pavers or extended above the roof surface. A davit cap (SM-CAP-DVT) is placed over a square hole in the deck or paver. A davit base may be mounted to a structurally adequate wall to avoid penetrating the roof.

Davit pedestal bases are permanently secured to the building's structure. Summit Anchor Company's davit pedestal bases can be secured to concrete slabs or steel beams using various methods:

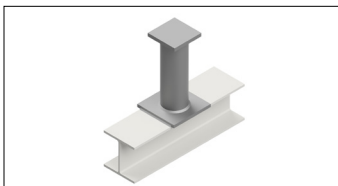
- cast in place base
- cast in place davit cages
- welding to steel beams
- bolting through concrete



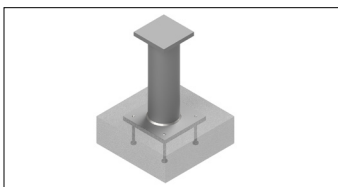
SM-DVT-BSE-PX1-XX



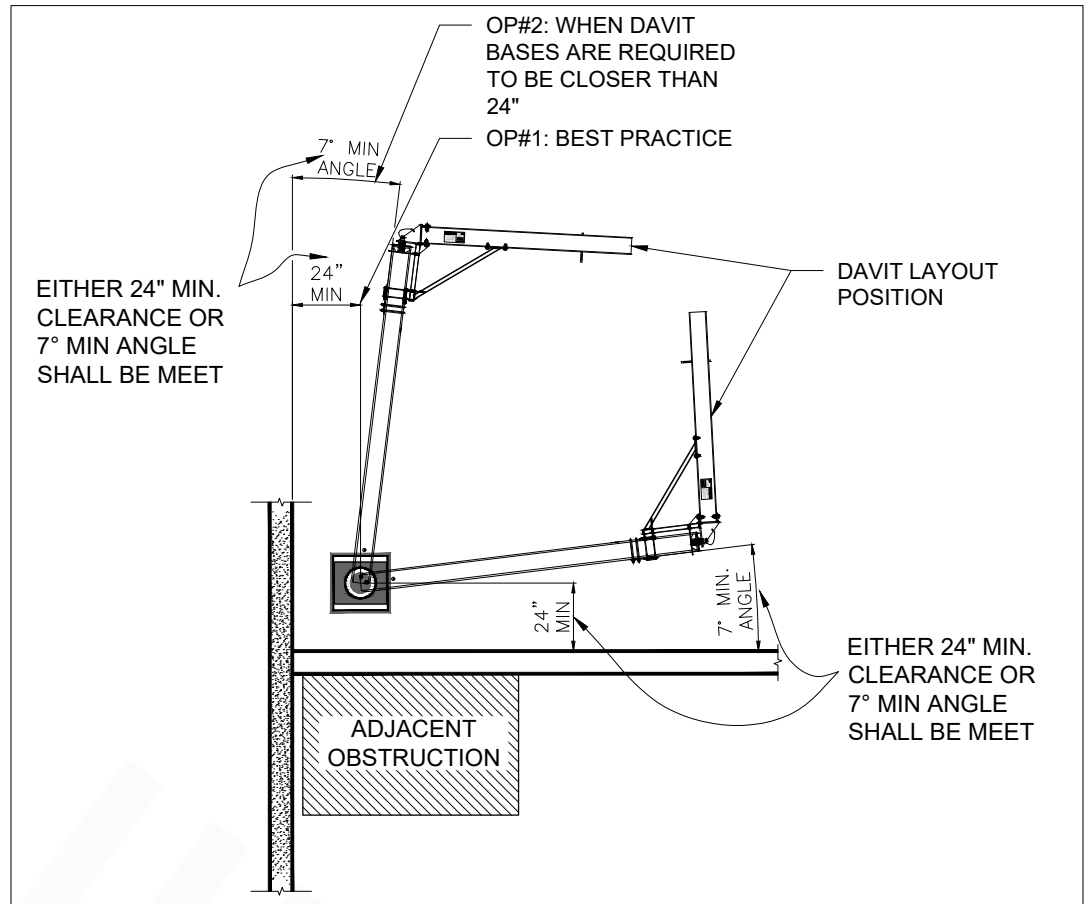
SM-DVT-BSE-PX1-XX



SM-DVT-BSE-PX4-XX



SM-DVT-BSE-PX5-XX



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SUMMIT STANDARD C.I.P. STUD DAVITS SUMMIT MODEL(S) PER TABLE

DESIGN GUIDELINES:

- DAVITS ARE DESIGNED IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS, AMERICAN WELDING SOCIETY STANDARDS, AND THE 14 WINDOW CLEANING SAFETY STANDARD.
- WHEN INSTALLED PROPERLY, SUMMIT DAVIT PRODUCTS ARE DESIGNED TO SUPPORT LOADS AS FOLLOWS:
 - WORKING LOAD PER TABLE (WORKING/ALLOWABLE LOAD)
 - 2X WORKING LOAD PER TABLE (PROOF LOAD TO TEST EQUIPMENT WITHOUT PERMANENT DEFORMATION)
 - 4X WORKING PER TABLE (MAX LOAD WITHOUT PERMANENT DEFORMATION)
- PROVIDING INFORMATION TO THE OWNER, OR THEIR REPRESENTATIVE, VERIFYING THE DAVIT LAYOUT COMPATIBLE WITH APPLICABLE LOCAL AND NATIONAL CODES, REGULATIONS, AND SAFETY STANDARDS FOR THE INTENDED USE.
- ENSURING THAT THE APPLICATION IN WHICH THE DAVITS ARE USED AND THE STRUCTURE TO WHICH IS ATTACHED WILL SUPPORT THE APPLICABLE LOADS INDICATED ON THIS DRAWING. THE STRUCTURE AND FIELD CONNECTION DETAILS MUST BE FULLY DEVELOPED TO RESIST THE LOADS INDICATED ON THE DRAWINGS INCLUDING MOMENT, SHEAR, AND AXIAL FORCES. THE PROJECT ENGINEER OF RECORD IS RESPONSIBLE FOR THE DESIGN INTEGRITY OF STRUCTURE, FIELD CONNECTION DETAILS INCLUDING ANY FIELD WELDS, ADHESIVE OR MECHANICAL DAVIT FASTENERS, RESPONDING BARS, OR ANY OTHER ELEMENT REQUIRED IN THE CONNECTION TO SUPPORT THE ABOVE LOADS.

LOADING REQUIREMENTS FOR PROPOSED BUILDING CONFIGURATION AND PROPERTIES HAVE NOT BEEN REVIEWED. EQUIPMENT IS ANALYZED FOR STATED LOADS ONLY. INTENDED USAGE OF EQUIPMENT IS OUT OF THIS SCOPE.

CUSTOMER IS RESPONSIBLE FOR THE FOLLOWING:

- ASSURANCE THAT SUMMIT ANCHOR PRODUCTS ARE ATTACHED TO ADEQUATE AND COMPATIBLE STRUCTURE.
- THE UNDERSTANDING THAT DAVITS MAY FAIL DUE TO IMPROPER INSTALLATION OR INADEQUATE SUPPORTING STRUCTURE. SERIOUS INJURY OR DEATH MAY RESULT FROM ANCHOR FAILURE. INSTALLATION OF DAVITS MUST BE PERFORMED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER WITH EXPERIENCE IN SUSPENDED ACCESS EQUIPMENT. ADDITIONALLY, DAVITS SHALL BE TESTED AND CERTIFIED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER BEFORE BEING INITIALLY PLACED INTO SERVICE (E.G. SEE IBCA 14-4 WINDOW CLEANING SAFETY STANDARD).

DAVIT BASE MODEL & GUIDE:
SM-DVT-BSE-PX5-12-20-78-07

MATERIAL DESIGNATION:

- ALL PLATES: ASTM A572 GR 50
- ALL TUBES: ASTM A500 GR C
- WELD WIRE: E70

LEGEND:

- 8" SLAB
- 10" SLAB
- 12" SLAB

DAVIT BASE MODEL & GUIDE:
SM-DVT-BSE-PX5-12-20-78-07

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SUMMIT STANDARD C.I.P. STUD DAVITS

DRAWING NO. **SM-DVT-BSE-PX5-XXXX** **A-1** **PLAT SCALE: 1/4"** **PAGE NO.**

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SUMMIT STANDARD C.I.P. STUD PEDESTAL MODELS SUMMIT MODEL(S) PER TABLE

MODEL NO.	ARM REACH	WORKING LOAD	NORMAL HEIGHT CONCRETE COMP STRENGTH	SET EMBEDMENT DEPTH (APPROX)	MIN. SLAB THICKNESS	BASE PLATE SIZE	STUD SPACING	PEDESTAL SIZE	TOP PLATE SIZE	WELD SIZE TOP & BOTTOM PLATE	STUD SIZE	MIN. SLAB EDGE DISTANCE	MIN. SLAB EDGE DISTANCE	VERTICAL REACTION (WORKING LOAD)	MOMENT REACTION (WORKING LOAD)
(S)	(M)	(W)	(C)	(E)	(T)	(P)	(S)	(P)	(T)	(W)	(S)	(E)	(D)	(A)	(B)
SM-DVT-BSE-PX5-12-20-78-07	6"	1000 Lbs	4000 PSI	8"	4"	12" X 12" X 7/8"	6"	6" X 6"	12" X 12" X 7/8"	1/2"	1/2"	3"	3"	25 KIP FT	12.5 KIP FT
SM-DVT-BSE-PX5-12-20-78-07	6"	1200 Lbs	4000 PSI	8"	4"	14" X 14" X 7/8"	6"	6" X 6"	14" X 14" X 7/8"	1/2"	1/2"	3"	3"	32 KIP FT	16 KIP FT
SM-DVT-BSE-PX5-12-20-78-07	6"	1500 Lbs	4000 PSI	8"	4"	16" X 16" X 7/8"	6"	6" X 6"	16" X 16" X 7/8"	1/2"	1/2"	3"	3"	34 KIP FT	17 KIP FT
SM-DVT-BSE-PX5-12-20-78-07	6"	1500 Lbs	4000 PSI	8"	4"	18" X 18" X 7/8"	6"	6" X 6"	18" X 18" X 7/8"	1/2"	1/2"	3"	3"	42 KIP FT	21 KIP FT
SM-DVT-BSE-PX5-12-20-78-07	6"	1500 Lbs	4000 PSI	8"	4"	12" X 12" X 7/8"	6"	6" X 6"	12" X 12" X 7/8"	1/2"	1/2"	3"	3"	25 KIP FT	12.5 KIP FT
SM-DVT-BSE-PX5-12-20-78-07	6"	1200 Lbs	4000 PSI	8"	4"	14" X 14" X 7/8"	6"	6" X 6"	14" X 14" X 7/8"	1/2"	1/2"	3"	3"	32 KIP FT	16 KIP FT
SM-DVT-BSE-PX5-12-20-78-07	6"	1500 Lbs	4000 PSI	8"	4"	16" X 16" X 7/8"	6"	6" X 6"	16" X 16" X 7/8"	1/2"	1/2"	3"	3"	34 KIP FT	17 KIP FT
SM-DVT-BSE-PX5-12-20-78-07	6"	1500 Lbs	4000 PSI	8"	4"	18" X 18" X 7/8"	6"	6" X 6"	18" X 18" X 7/8"	1/2"	1/2"	3"	3"	42 KIP FT	21 KIP FT

LEGEND:

- 8" SLAB
- 10" SLAB
- 12" SLAB

DAVIT BASE MODEL & GUIDE:
SM-DVT-BSE-PX5-12-20-78-07

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SUMMIT STANDARD C.I.P. STUD DAVIT

DRAWING NO. **SM-DVT-BSE-PX5-XXXX** **A-2** **PLAT SCALE: 1/4"** **PAGE NO.**

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SUMMIT STANDARD BOLT-THRU DAVITS SUMMIT MODEL(S) PER TABLE

DESIGN GUIDELINES:

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 - 4X WORKING PER TABLE (MAX LOAD WITHOUT PERMANENT DEFORMATION)
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LOADING REQUIREMENTS FOR PROPOSED BUILDING CONFIGURATION AND PROPERTIES HAVE NOT BEEN REVIEWED. EQUIPMENT IS ANALYZED FOR STATED LOADS ONLY. INTENDED USAGE OF EQUIPMENT IS OUT OF THIS SCOPE.

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DAVIT BASE MODEL & GUIDE:
SM-DVT-BSE-PX1-12-20-78-06

MATERIAL DESIGNATION:

- ALL PLATES: ASTM A572 GR 50
- ALL TUBES: ASTM A500 GR C
- WELD WIRE: E70

LEGEND:

- HOLE Ø FOR BOLT ON APPLICATION
- BASE PLATE THICKNESS (Bp)
- TUBE HEIGHT (Ts)
- BASE PLATE SIZE (B)
- SQUARE TOP PLATE

DAVIT BASE MODEL & GUIDE:
SM-DVT-BSE-PX1-12-20-78-06

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SUMMIT STANDARD BOLT-THRU DAVITS

DRAWING NO. **SM-DVT-BSE-PX1-XXXX** **A-3** **PLAT SCALE: 1/4"** **PAGE NO.**

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Tel: 301.874.4941, Fax: 301.620.9819
Toll Free: 800.372.1098 Web: www.summitanchor.com

"Your one stop provider for all fall protection, suspended maintenance equipment, installation and testing."

SUMMIT STANDARD BOLT-THRU DAVITS SUMMIT MODEL(S) PER TABLE

MODEL NO.	ARM REACH	WORKING LOAD	NORMAL HEIGHT CONCRETE COMP STRENGTH	SET EMBEDMENT DEPTH (APPROX)	MIN. SLAB THICKNESS	BASE PLATE SIZE	THREADED ROD SPACING	PEDESTAL SIZE	TOP PLATE SIZE	WELD SIZE TOP & BOTTOM PLATE	THREADED ROD	MIN. SLAB EDGE DISTANCE	MIN. SLAB EDGE DISTANCE	VERTICAL REACTION (WORKING LOAD)	MOMENT REACTION (WORKING LOAD)
(S)	(M)	(W)	(C)	(E)	(T)	(P)	(S)	(P)	(T)	(W)	(S)	(E)	(D)	(A)	(B)
SM-DVT-BSE-PX1-12-20-78-07	6"	1000 Lbs	4000 PSI	8"	4"	12" X 12" X 7/8"	6"	6" X 6"	12" X 12" X 7/8"	1/2"	1/2"	3"	3"	1.6 KIPS	78 LBS-FT
SM-DVT-BSE-PX1-14-20-07	6"	1200 Lbs	4000 PSI	8"	4"	14" X 14" X 7/8"	6"	6" X 6"	14" X 14" X 7/8"	1/2"	1/2"	3"	3"	1.25 KIPS	61 LBS-FT
SM-DVT-BSE-PX1-10-20-07	6"	1000 Lbs	4000 PSI	8"	4"	10" X 10" X 7/8"	6"	6" X 6"	10" X 10" X 7/8"	1/2"	1/2"	3"	3"	1.6 KIPS	102 LBS-FT
SM-DVT-BSE-PX1-10-20-07	6"	1200 Lbs	4000 PSI	8"	4"	10" X 10" X 7/8"	6"	6" X 6"	10" X 10" X 7/8"	1/2"	1/2"	3"	3"	1.25 KIPS	127 LBS-FT

LEGEND:

- HOLE Ø FOR BOLT ON APPLICATION
- BASE PLATE THICKNESS (Bp)
- TUBE HEIGHT (Ts)
- BASE PLATE SIZE (B)
- SQUARE TOP PLATE

DAVIT BASE MODEL & GUIDE:
SM-DVT-BSE-PX1-12-20-78-06

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SUMMIT STANDARD BOLT-THRU DAVITS

DRAWING NO. **SM-DVT-BSE-PX1-XXXX** **A-4** **PLAT SCALE: 1/4"** **PAGE NO.**

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SUMMIT STANDARD CAGE MOUNTED DAVITS
 SUMMIT MODEL(S) PER TABLE

DESIGN GUIDELINES:

- DAVITS ARE DESIGNED IN ACCORDANCE WITH FEDERAL OSHA REGULATIONS, AMERICAN WELDING SOCIETY (AWS) AND THE 14 WINDOW CLEARANCE SAFETY STANDARD.
- WHEN INSTALLED PROPERLY, SUMMIT DAVIT PRODUCTS ARE DESIGNED TO SUPPORT LOADS AS FOLLOWS:
LOADING REQUIREMENTS FOR SUSPENDED MOTORIZED SYSTEMS:
 - WORKING LOAD PER TABLE (WORKING/ALLOWABLE LOAD)
 - WORKING LOAD PER TABLE (PROOF LOAD TO TEST EQUIPMENT WITHOUT PERMANENT DEFORMATION)
 - WORKING PER TABLE (MAX LOAD WITHOUT PERMANENT DEFORMATION)**LOADING REQUIREMENTS FOR HOPE DECENT SYSTEMS:**
 - 1750 LB. WORKING LOAD LIMIT (ALLOWABLE LOAD)
 - 2200 LB. PROOF LOAD (TEST LOAD WITHOUT PERMANENT DEFORMATION)
 - 3000 LB. ULTIMATE MAX LOAD (LOAD WITHOUT PERMANENT DEFORMATION)
- PROVIDING INFORMATION TO THE OWNER OR THEIR REPRESENTATIVE, VERIFYING THE DAVIT LAYOUT COMPLES WITH APPLICABLE LOCAL AND NATIONAL CODES, REGULATIONS, AND SAFETY STANDARDS FOR THE INTENDED USE.
- ENSURING THAT THE APPLICATION IN WHICH THE DAVITS ARE USED AND THE STRUCTURE TO WHICH IS ATTACHED WILL SUPPORT THE APPLICABLE LOADS INDICATED ON THIS DRAWING. THE APPLICABLE LOCAL AND NATIONAL CODES, REGULATIONS, AND SAFETY STANDARDS FOR THE INTENDED USE. THE PROJECT ENGINEER OF RECORD IS RESPONSIBLE FOR THE STRUCTURE. THESE ELEMENTS INCLUDE, BUT NOT LIMITED TO THE INTERITY OF STRUCTURE, FIELD CONNECTION DETAILS INCLUDING ANY FIELD WELDS, ADHESIVE OR MECHANICAL DAVIT FASTENERS, REINFORCING BARS, OR ANY OTHER ELEMENT REQUIRED IN THE CONNECTION TO SUPPORT THE ABOVE LOADS.
- EXISTING OR PROPOSED BUILDING CONFIGURATION AND PROPERTIES HAVE NOT BEEN REVIEWED. EQUIPMENT IS ANALYZED FOR STATED LOADS ONLY. INTENDED USAGE OF EQUIPMENT IS OUT OF THIS SCOPE.

CUSTOMER IS RESPONSIBLE FOR THE FOLLOWING:

- ASSURANCE THAT SUMMIT ANCHOR PRODUCTS ARE ATTACHED TO ADEQUATE AND COMPATIBLE STRUCTURE.
- THE UNDERSTANDING THAT DAVITS MAY FAIL DUE TO IMPROPER INSTALLATION OR INADEQUATE SUPPORTING STRUCTURE. SERIOUS INJURY OR DEATH MAY RESULT FROM ANCHOR FAILURE. INSTALLATION OF DAVITS MUST BE PERFORMED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER WITH EXPERIENCE IN SUSPENDED ACCESS EQUIPMENT. ADDITIONALLY, DAVITS SHALL BE TESTED AND CERTIFIED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER BEFORE BEING INITIALLY PLACED INTO SERVICE (E.G. SEE IBCA-14.1 WINDOW CLEARANCE SAFETY STANDARD).

DAVIT BASE MODEL & GUIDE:
 SM-DVT-BSE-PX1-12-20-78-06

(5) Ø6 = HOLE Ø FOR BOLT ON APPLICATION
 (4) T8 = BASE PLATE THICKNESS (Bp)
 (3) T2 = TUBE HEIGHT (Tt)
 (2) T2 = BASE PLATE SIZE (Bp)
 (1) X = SQUARE TOP PLATE

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SUMMIT STANDARD CAGE MOUNTED DAVITS
 SUMMIT MODEL(S) PER TABLE

MATERIAL DESIGNATION:

- ALL PLATES: ASTM A572 GR 50
- ALL TUBES: ASTM A500 GR C
- WELD WIRE: E70

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SUMMIT STANDARD CAGE MOUNTED DAVITS
 SUMMIT MODEL(S) PER TABLE

DAVIT BASE MODEL & GUIDE:
 SM-DVT-BSE-PX1-12-20-78-06

(5) Ø6 = HOLE Ø FOR BOLT ON APPLICATION
 (4) T8 = BASE PLATE THICKNESS (Bp)
 (3) T2 = TUBE HEIGHT (Tt)
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SUMMIT STANDARD CAGE MOUNTED DAVITS
 SUMMIT MODEL(S) PER TABLE

DAVIT BASE MODEL & GUIDE:
 SM-DVT-BSE-PX1-12-20-78-06

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 (4) T8 = BASE PLATE THICKNESS (Bp)
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SM-DVT-CGE: Davit before and after pouring of concrete slab



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SUMMIT STANDARD CAGE MOUNTED DAVITS
 SUMMIT MODEL(S) PER TABLE

SUMMIT STANDARD CAGE MOUNTED PEDESTAL MODELS WITH 10'-0" MAX. MAST

MODEL NO.	ARM REACH	WORKING LOAD	NORMAL WEIGHT CONCRETE COMP. STRENGTH	ØTt (EMBEDMENT DEPTH)	MIN. SLAB THICKNESS (Bp)	BASE PLATE SIZE (Bp)	THREADED ROD SPACING	PEDESTAL SIZE	TOP PLATE SIZE	WELD SIZE TOP & BOTTOM PLATE	THREADED ROD DIA.	MIN. SLAB EDGE DISTANCE	VERTICAL REACTION (WORKING LOAD)	HORIZONTAL REACTION (WORKING LOAD)
SM-DVT-BSE-PX1-12-20-78-06	6'-0"	1000 LBS	4000 PSI	5'-0"	8-1/2"	12' X 12' X 1/2"	9"	8'-0" X 8'-0"	5'-0"	3/4"	1/2"	1.0 KIPS	70.0 KIP/IN	
SM-DVT-BSE-PX1-14-20-106	6'-0"	1200 LBS	4000 PSI	5'-0"	8-1/2"	14' X 14' X 1/2"	11"	8'-0" X 8'-0"	5'-0"	3/4"	1/2"	1.25 KIPS	91.0 KIP/IN	
SM-DVT-BSE-PX1-16-20-146	6'-0"	1000 LBS	4000 PSI	5'-0"	8-1/2"	16' X 16' X 1/2"	12"	8'-0" X 8'-0"	5'-0"	3/4"	1/2"	1.0 KIPS	102.0 KIP/IN	
SM-DVT-BSE-PX1-18-20-196	6'-0"	1200 LBS	4000 PSI	5'-0"	8-1/2"	18' X 18' X 1/2"	13"	8'-0" X 8'-0"	5'-0"	3/4"	1/2"	1.25 KIPS	127.0 KIP/IN	

SUMMIT STANDARD CAGE MOUNTED PEDESTAL MODELS WITH 10'-0" MAX. MAST

MODEL NO.	ARM REACH	WORKING LOAD	NORMAL WEIGHT CONCRETE COMP. STRENGTH	ØTt (EMBEDMENT DEPTH)	MIN. SLAB THICKNESS (Bp)	BASE PLATE SIZE (Bp)	THREADED ROD SPACING	PEDESTAL SIZE	TOP PLATE SIZE	WELD SIZE TOP & BOTTOM PLATE	THREADED ROD DIA.	MIN. SLAB EDGE DISTANCE	VERTICAL REACTION (WORKING LOAD)	HORIZONTAL REACTION (WORKING LOAD)
SM-DVT-BSE-PX1-12-20-78-06	6'-0"	1000 LBS	4000 PSI	5'-0"	8-1/2"	12' X 12' X 1/2"	9"	8'-0" X 8'-0"	5'-0"	3/4"	1/2"	1.0 KIPS	70.0 KIP/IN	
SM-DVT-BSE-PX1-14-20-106	6'-0"	1200 LBS	4000 PSI	5'-0"	8-1/2"	14' X 14' X 1/2"	11"	8'-0" X 8'-0"	5'-0"	3/4"	1/2"	1.25 KIPS	91.0 KIP/IN	
SM-DVT-BSE-PX1-16-20-146	6'-0"	1000 LBS	4000 PSI	5'-0"	8-1/2"	16' X 16' X 1/2"	12"	8'-0" X 8'-0"	5'-0"	3/4"	1/2"	1.0 KIPS	102.0 KIP/IN	
SM-DVT-BSE-PX1-18-20-196	6'-0"	1200 LBS	4000 PSI	5'-0"	8-1/2"	18' X 18' X 1/2"	13"	8'-0" X 8'-0"	5'-0"	3/4"	1/2"	1.25 KIPS	127.0 KIP/IN	

DAVIT BASE MODEL & GUIDE:
 SM-DVT-BSE-PX1-12-20-78-06

(5) Ø6 = HOLE Ø FOR BOLT ON APPLICATION
 (4) T8 = BASE PLATE THICKNESS (Bp)
 (3) T2 = TUBE HEIGHT (Tt)
 (2) T2 = BASE PLATE SIZE (Bp)
 (1) X = SQUARE TOP PLATE

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SUMMIT STANDARD CAGE MOUNTED DAVITS
 SUMMIT MODEL(S) PER TABLE

DAVIT BASE MODEL & GUIDE:
 SM-DVT-BSE-PX1-12-20-78-06

(5) Ø6 = HOLE Ø FOR BOLT ON APPLICATION
 (4) T8 = BASE PLATE THICKNESS (Bp)
 (3) T2 = TUBE HEIGHT (Tt)
 (2) T2 = BASE PLATE SIZE (Bp)
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SUMMIT STANDARD CAGE MOUNTED DAVITS
 SUMMIT MODEL(S) PER TABLE

SUMMIT STANDARD CAGE MOUNTED PEDESTAL MODELS WITH 10'-0" MAX. MAST

MODEL NO.	ARM REACH	WORKING LOAD	NORMAL WEIGHT CONCRETE COMP. STRENGTH	ØTt (EMBEDMENT DEPTH)	MIN. SLAB THICKNESS (Bp)	BASE PLATE SIZE (Bp)	THREADED ROD SPACING	PEDESTAL SIZE	TOP PLATE SIZE	WELD SIZE TOP & BOTTOM PLATE	THREADED ROD DIA.	MIN. SLAB EDGE DISTANCE	VERTICAL REACTION (WORKING LOAD)	HORIZONTAL REACTION (WORKING LOAD)
SM-DVT-BSE-PX1-12-20-78-06	6'-0"	1000 LBS	4000 PSI	5'-0"	8-1/2"	12' X 12' X 1/2"	9"	8'-0" X 8'-0"	5'-0"	3/4"	1/2"	1.0 KIPS	70.0 KIP/IN	
SM-DVT-BSE-PX1-14-20-106	6'-0"	1200 LBS	4000 PSI	5'-0"	8-1/2"	14' X 14' X 1/2"	11"	8'-0" X 8'-0"	5'-0"	3/4"	1/2"	1.25 KIPS	91.0 KIP/IN	
SM-DVT-BSE-PX1-16-20-146	6'-0"	1000 LBS	4000 PSI	5'-0"	8-1/2"	16' X 16' X 1/2"	12"	8'-0" X 8'-0"	5'-0"	3/4"	1/2"	1.0 KIPS	102.0 KIP/IN	
SM-DVT-BSE-PX1-18-20-196	6'-0"	1200 LBS	4000 PSI	5'-0"	8-1/2"	18' X 18' X 1/2"	13"	8'-0" X 8'-0"	5'-0"	3/4"	1/2"	1.25 KIPS	127.0 KIP/IN	

SUMMIT STANDARD CAGE MOUNTED PEDESTAL MODELS WITH 10'-0" MAX. MAST

MODEL NO.	ARM REACH	WORKING LOAD	NORMAL WEIGHT CONCRETE COMP. STRENGTH	ØTt (EMBEDMENT DEPTH)	MIN. SLAB THICKNESS (Bp)	BASE PLATE SIZE (Bp)	THREADED ROD SPACING	PEDESTAL SIZE	TOP PLATE SIZE	WELD SIZE TOP & BOTTOM PLATE	THREADED ROD DIA.	MIN. SLAB EDGE DISTANCE	VERTICAL REACTION (WORKING LOAD)	HORIZONTAL REACTION (WORKING LOAD)
SM-DVT-BSE-PX1-12-20-78-06	6'-0"	1000 LBS	4000 PSI	5'-0"	8-1/2"	12' X 12' X 1/2"	9"	8'-0" X 8'-0"	5'-0"	3/4"	1/2"	1.0 KIPS	70.0 KIP/IN	
SM-DVT-BSE-PX1-14-20-106	6'-0"	1200 LBS	4000 PSI	5'-0"	8-1/2"	14' X 14' X 1/2"	11"	8'-0" X 8'-0"	5'-0"	3/4"	1/2"	1.25 KIPS	91.0 KIP/IN	
SM-DVT-BSE-PX1-16-20-146	6'-0"	1000 LBS	4000 PSI	5'-0"	8-1/2"	16' X 16' X 1/2"	12"	8'-0" X 8'-0"	5'-0"	3/4"	1/2"	1.0 KIPS	102.0 KIP/IN	
SM-DVT-BSE-PX1-18-20-196	6'-0"	1200 LBS	4000 PSI	5'-0"	8-1/2"	18' X 18' X 1/2"	13"	8'-0" X 8'-0"	5'-0"	3/4"	1/2"	1.25 KIPS	127.0 KIP/IN	

DAVIT BASE MODEL & GUIDE:
 SM-DVT-BSE-PX1-12-20-78-06

(5) Ø6 = HOLE Ø FOR BOLT ON APPLICATION
 (4) T8 = BASE PLATE THICKNESS (Bp)
 (3) T2 = TUBE HEIGHT (Tt)
 (2) T2 = BASE PLATE SIZE (Bp)
 (1) X = SQUARE TOP PLATE

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SUMMIT STANDARD CAGE MOUNTED DAVITS
 SUMMIT MODEL(S) PER TABLE

DAVIT BASE MODEL & GUIDE:
 SM-DVT-BSE-PX1-12-20-78-06

(5) Ø6 = HOLE Ø FOR BOLT ON APPLICATION
 (4) T8 = BASE PLATE THICKNESS (Bp)
 (3) T2 = TUBE HEIGHT (Tt)
 (2) T2 = BASE PLATE SIZE (Bp)
 (1) X = SQUARE TOP PLATE

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SUMMIT STANDARD WELD ON DAVITS
 SUMMIT MODEL(S) PER TABLE

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DESIGN GUIDELINES:

- DAVITS ARE DESIGNED IN ACCORDANCE WITH FEDERAL, OSHA REGULATIONS, AMERICAN WELDING SOCIETY (AWS) AND THE L-14 WINDOW CLEANING SAFETY STANDARD.
- WHEN INSTALLED PROPERLY, SUMMIT DAVITS PRODUCTS ARE DESIGNED TO SUPPORT LOADS AS FOLLOWS:

LOADING REQUIREMENTS FOR SUSPENDED MOTORIZED SYSTEMS:

- WORKING LOAD PER TABLE (WORKING/ALLOWABLE LOAD)
- IN WORKING LOAD PER TABLE (PROOF LOAD TO TEST EQUIPMENT WITHOUT PERMANENT DEFORMATION)
- WORKING PER TABLE (MAX LOAD WITHOUT PERMANENT DEFORMATION)

LOADING REQUIREMENTS FOR ROPE DESCENT SYSTEMS:

- 1250 LB. WORKING LOAD LIMIT (ALLOWABLE LOAD)
- 2500 LB. PROOF LOAD (TEST LOAD WITHOUT PERMANENT DEFORMATION)
- 5000 LB. ULTIMATE LOAD (MAX LOAD WITHOUT PERMANENT DEFORMATION)

CUSTOMER IS RESPONSIBLE FOR THE FOLLOWING:

- ASSURANCE THAT SUMMIT ANCHOR PRODUCTS ARE ATTACHED TO ADEQUATE AND COMPATIBLE STRUCTURE.
- THE UNDERSTANDING THAT DAVITS MAY FAIL DUE TO IMPROPER INSTALLATION OR INADEQUATE SUPPORTING STRUCTURE. SERIOUS INJURY OR DEATH MAY RESULT FROM ANCHOR FAILURE. INSTALLATION OF DAVITS MUST BE PERFORMED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER WITH EXPERIENCE IN SUSPENDED ACCESS EQUIPMENT. ADDITIONALLY, DAVITS SHALL BE TESTED AND CERTIFIED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER BEFORE BEING INITIALLY PLACED INTO SERVICE (E.G. SEE IBCA-14.1 WINDOW CLEANING SAFETY STANDARD).

DAVIT BASE MODEL # GUIDE:
 SM-DVT-BSE-PX4-20

(2) 20 = TUBE HEIGHT (IN)
 (1) X = SQUARE TOP PLATE

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SUMMIT STANDARD WELD ON DAVITS
 DRAWING NO. **A-8** (PICT SCALE: 1/4")
 PAGE NO.

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SUMMIT STANDARD WELD ON DAVITS
 SUMMIT MODEL(S) PER TABLE

"Your one stop provider for all fall protection, suspended maintenance equipment, installation and testing."

SUMMIT STANDARD WELD ON PEDESTAL MODELS WITH 10'-0" MAX. MAST

MODEL NO.	ARM REACH	WORKING LOAD	PEDESTAL SIZE	TOP PLATE SIZE	WELD SIZE	A) VERTICAL REACTION (WORKING LOAD)	B) MOMENT REACTION (WORKING LOAD)
SM-DVT-BSE-PX4-20	6'-6"	1000 Lbs				1.0 KIPS	78.0 KIP-IN
SM-DVT-BSE-PX4-20	6'-6"	1250 Lbs	6" SCH 40	8'-3/4" X 8'-3/4" X 1"	5/16"	1.25 KIPS	97.5 KIP-IN
SM-DVT-BSE-PX4-20	8'-6"	1000 Lbs				1.0 KIPS	102.0 KIP-IN
SM-DVT-BSE-PX4-20X	8'-6"	1250 Lbs	6" SCH 60			1.25 KIPS	127.5 KIP-IN

DAVIT BASE MODEL # GUIDE:
 SM-DVT-BSE-PX4-20

(2) 20 = TUBE HEIGHT (IN)
 (1) X = SQUARE TOP PLATE

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SUMMIT STANDARD WELD ON DAVITS
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SUMMIT STANDARD C.I.P DAVIT BASE WITH LEVELING RODS
 SUMMIT MODEL(S) PER TABLE

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- WHEN INSTALLED PROPERLY, SUMMIT DAVITS PRODUCTS ARE DESIGNED TO SUPPORT LOADS AS FOLLOWS:

LOADING REQUIREMENTS FOR SUSPENDED MOTORIZED SYSTEMS:

- WORKING LOAD PER TABLE (WORKING/ALLOWABLE LOAD)
- IN WORKING LOAD PER TABLE (PROOF LOAD TO TEST EQUIPMENT WITHOUT PERMANENT DEFORMATION)
- WORKING PER TABLE (MAX LOAD WITHOUT PERMANENT DEFORMATION)

LOADING REQUIREMENTS FOR ROPE DESCENT SYSTEMS:

- 1250 LB. WORKING LOAD LIMIT (ALLOWABLE LOAD)
- 2500 LB. PROOF LOAD (TEST LOAD WITHOUT PERMANENT DEFORMATION)
- 5000 LB. ULTIMATE LOAD (MAX LOAD WITHOUT PERMANENT DEFORMATION)

CUSTOMER IS RESPONSIBLE FOR THE FOLLOWING:

- ASSURANCE THAT SUMMIT ANCHOR PRODUCTS ARE ATTACHED TO ADEQUATE AND COMPATIBLE STRUCTURE.
- THE UNDERSTANDING THAT DAVITS MAY FAIL DUE TO IMPROPER INSTALLATION OR INADEQUATE SUPPORTING STRUCTURE. SERIOUS INJURY OR DEATH MAY RESULT FROM ANCHOR FAILURE. INSTALLATION OF DAVITS MUST BE PERFORMED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER WITH EXPERIENCE IN SUSPENDED ACCESS EQUIPMENT. ADDITIONALLY, DAVITS SHALL BE TESTED AND CERTIFIED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER BEFORE BEING INITIALLY PLACED INTO SERVICE (E.G. SEE IBCA-14.1 WINDOW CLEANING SAFETY STANDARD).

DAVIT BASE MODEL # GUIDE:
 SM-DVT-BSE-PX6-12-20-76-06

(6) 06 = 6" FOR BOLT ON APPLICATION
 (7) 76 = BASE PLATE THICKNESS (Bp)
 (2) 20 = TUBE HEIGHT (IN)
 (1) X = BASE PLATE SIZE (Bp)
 (1) X = SQUARE TOP PLATE

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SUMMIT STANDARD DAVIT W/ LEVELING RODS
 DRAWING NO. **A-10** (PICT SCALE: 1/4")
 PAGE NO.

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SUMMIT STANDARD C.I.P DAVIT BASE WITH LEVELING RODS
 SUMMIT MODEL(S) PER TABLE

"Your one stop provider for all fall protection, suspended maintenance equipment, installation and testing."

SUMMIT STANDARD C.I.P DAVIT BASE WITH LEVELING RODS WITH 10'-0" MAX. MAST

MODEL NO.	ARM REACH	WORKING LOAD	NORMAL WEIGHT COMP. STRENGTH	PIPE EMBEDMENT DEPTH	MIN. SLAB THICKNESS	BASE PLATE SIZE	THREADED ROD SPACING	PEDESTAL SIZE	EXPOSED LENGTH	MAX. TUBE LENGTH	MIN. SLAB DISTANCE	WELD SIZE	A) VERTICAL REACTION (WORKING LOAD)	B) MOMENT REACTION (WORKING LOAD)
SM-DVT-BSE-PX6-12-54-98-05	6'-6"	1000 Lbs	6000 PSI	7"	12"	12" X 12" X 5/8"			47"	54"	36"		1.0 KIPS	78.0 KIP-IN
SM-DVT-BSE-PX6-12-54-98-05	6'-6"	1250 Lbs	6000 PSI	6"	12"	12" X 12" X 5/8"	6" X 6"	8'-3/4" X 8'-3/4" X 1"	48"	54"	36"	5/16"	1.25 KIPS	97.5 KIP-IN
SM-DVT-BSE-PX6-12-54-98-05	6'-6"	1000 Lbs	6000 PSI	6"	12"	12" X 12" X 5/8"			48"	54"	36"		1.0 KIPS	102.0 KIP-IN
SM-DVT-BSE-PX6-12-54-98-05	6'-6"	1250 Lbs	6000 PSI	6"	12"	12" X 12" X 5/8"	6" X 6"		48"	54"	36"		1.25 KIPS	127.5 KIP-IN

DAVIT BASE MODEL # GUIDE:
 SM-DVT-BSE-PX6-12-20-76-06

(6) 06 = 6" FOR BOLT ON APPLICATION
 (7) 76 = BASE PLATE THICKNESS (Bp)
 (2) 20 = TUBE HEIGHT (IN)
 (1) X = SQUARE TOP PLATE

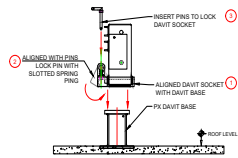
Summit Anchor Co.
 4507 Metropolitan Ct., Suite F, Frederick, MD 21704
 Tel: 301.874.4941, Fax: 301.620.9819
 Toll Free: 800.372.1098 Web: www.summitanchor.com

SUMMIT STANDARD DAVIT W/ LEVELING RODS
 DRAWING NO. **A-11** (PICT SCALE: 1/4")
 PAGE NO.

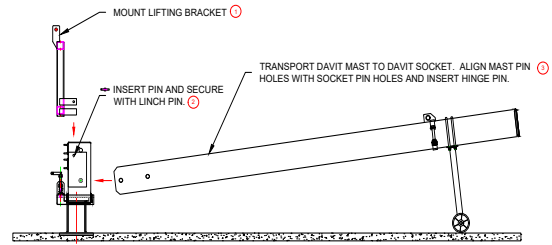
SET-UP INSTRUCTIONS

SUMMIT ANCHOR - STANDARD DAVIT
 SM-DVT-BSE-PX
 SM-DVT-ARM-TR-8-1250
 SM-DVT-SKX-TR-8-1250

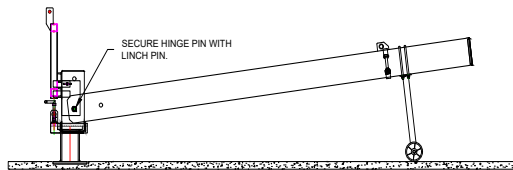
Summit Anchor Co.
 10000 W. 10th Street, Suite 1000, Frederick, MD 21704
 410-327-2000 | 410-327-2001 | www.summitanchor.com
 *The use of any product in a way not intended by the manufacturer is strictly prohibited.



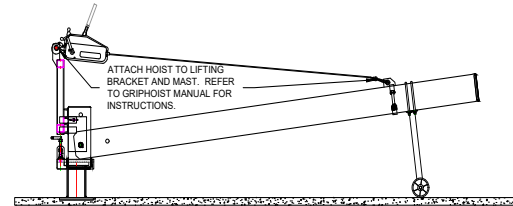
SIDE VIEW
STEP 1



STEP 2



STEP 3



STEP 4

DAVIT ARM ASSEMBLY SETUP INSTRUCTIONS

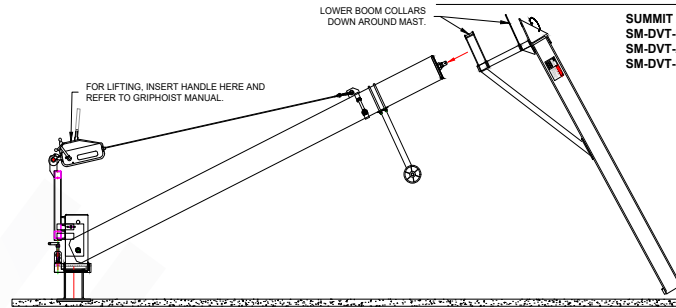
THE MANUFACTURER SHALL ASSURE THAT THE PRODUCTS PROVIDED BY THESE MANUFACTURERS:
 A. WILL SUPPORT THE LOAD INDICATED BY THE OPERATOR, WITH PROPER USE OF THE PRODUCTS.
 B. WILL BE USED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

A-1

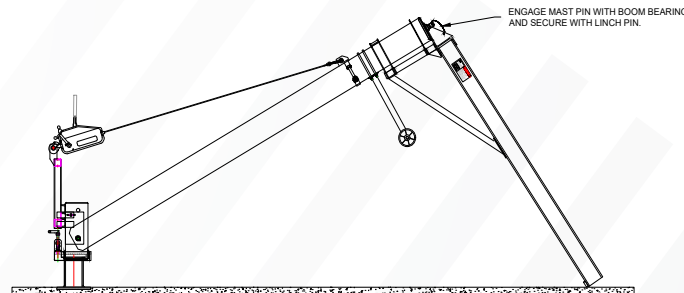
SET-UP INSTRUCTIONS

SUMMIT ANCHOR - STANDARD DAVIT
 SM-DVT-BSE-PX
 SM-DVT-ARM-TR-8-1250
 SM-DVT-SKX-TR-8-1250

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STEP 5



STEP 6

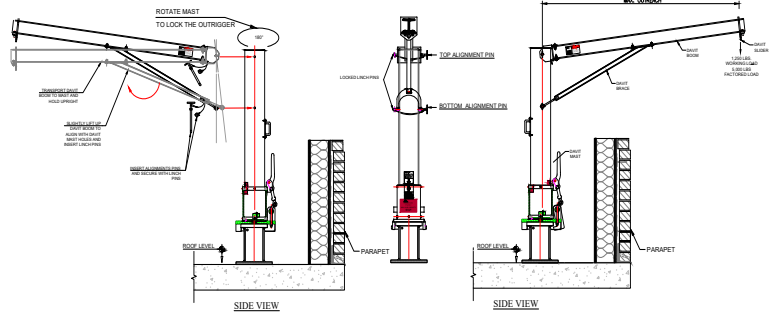
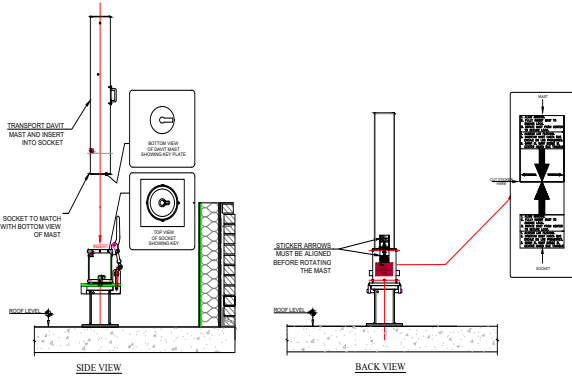
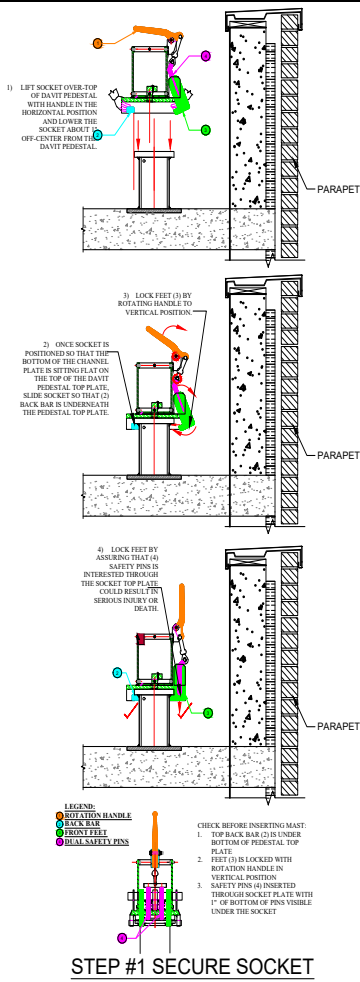
DAVIT ARM ASSEMBLY SETUP INSTRUCTIONS

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A-2

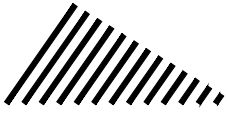
SET-UP INSTRUCTIONS

SUMMIT ANCHOR - STANDARD DAVIT
 SM-DVT-BSE-PX
 SM-DVT-ARM-X-1250
 SM-DVT-SKX-X-1250



DAVIT ARM ASSEMBLY SETUP INSTRUCTIONS

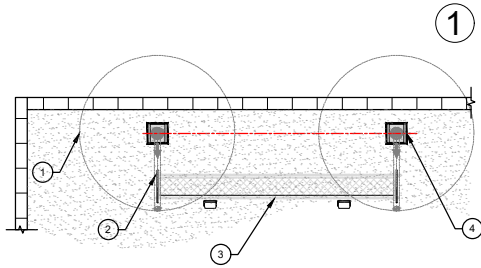
A-1



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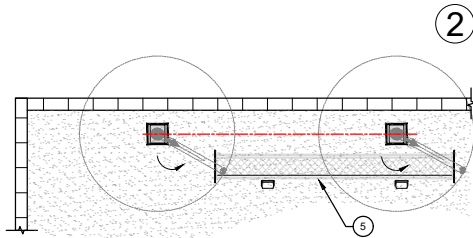
4507 Metropolitan Ct., Suite F
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 Toll Free: 800.372.1098
 Web: www.summitanchor.com

SUMMIT ANCHOR - PLATFORM SET-UP



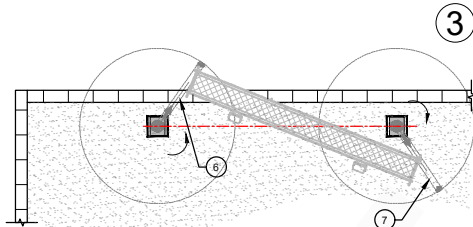
STEP - 1 - IN BOARD PLATFORM

1. DAVIT OUT REACH
2. DAVIT ARM ASSEMBLY
3. STANDARD PLATFORM
4. DAVIT BASE



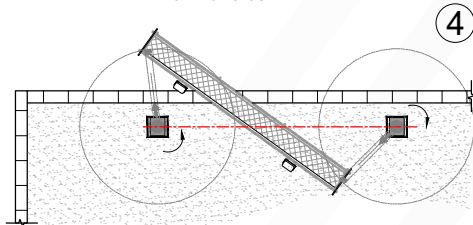
STEP - 2 - IN BOARD PLATFORM

5. ROTATE BOTH DAVIT ARMS TO APROX. 45°

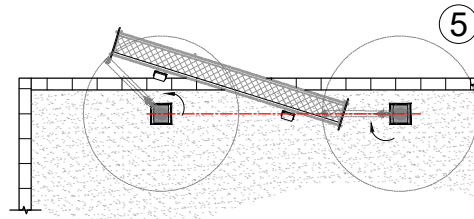


STEP - 3 - IN BOARD PLATFORM

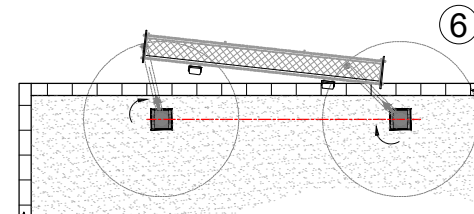
6. DAVIT ROTATION COUNTER CLOCKWISE
7. DAVIT ROTATION CLOCKWISE



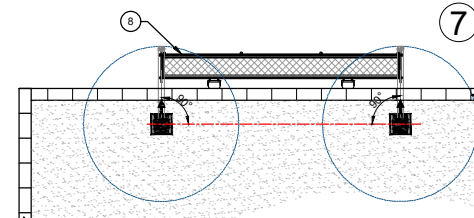
STEP - 4 - IN BOARD PLATFORM



STEP - 5 - IN BOARD PLATFORM



STEP - 6 - OUT BOARD PLATFORM



STEP - 7 - OUT BOARD PLATFORM

8. ALL SET OUT BOARD PLATFORM

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D.J.M.	Toll Free: 800.372.1098
DATE:	Web: www.summitanchor.com
SCALE:	PROJECT
DATE:	PLATFORM SET UP
DATE:	DRAWING NO. A-7
DATE:	PLOT SCALE: 1:1
DATE:	PAGE NO. 1 OF 1

Electric Requirements for Powered Platforms

OSHA - 1910.66(e)(11)

Electrical requirements.

The following electrical requirements apply to buildings which utilize working platforms for building maintenance.

- (i) General building electrical installations shall comply with §§1910.302 through 1910.308 of this part, unless otherwise specified in this section;
- (ii) Building electrical wiring shall be of such capacity that when full load is applied to the equipment power circuit not more than a five percent drop from building service-vault voltage shall occur at any power circuit outlet used by equipment regulated by this section;
- (iii) The equipment power circuit shall be an independent electrical circuit that shall remain separate from all other equipment within or on the building, other than power circuits used for hand tools that will be used in conjunction with the equipment. If the building is provided with an emergency power system, the equipment power circuit may also be connected to this system;
- (iv) The power circuit shall be provided with a disconnect switch that can be locked in the "OFF" and "ON" positions. The switch shall be conveniently located with respect to the primary operating area of the equipment to allow the operators of the equipment access to the switch;
- (v) The disconnect switch for the power circuit shall be locked in the "ON" position when the equipment is in use; and

ASME A120.1-2008 - Safety Requirements for Powered Platforms and Traveling Ladders and Gantries for Building Maintenance

2 Building Design Requirements

2.3.6 Electrical Requirements The electrical design shall be in accordance with the following:

(a) General design shall be in accordance with the applicable requirements of the National Electrical Code edition in effect at the time of making the design, e.g., grounding, wire size, motors, controls and control wiring, and enclosures.

(b) When full load is applied to the circuit, building conductors shall be of such capacity that not more than a 3% voltage drop from nominal equipment requirements shall occur at each building outlet.

(c) Communications and power connections shall be weatherproof and provided with locking type connectors. They shall be protected from damage and abrasion.

(d) Each communication and power outlet shall be provided with an adjacent strain relief anchor to prevent force from being applied to the outlet or to the conduit leading to the outlet by movement of the equipment.

(e) The equipment power supply shall be from an independent electrical circuit that shall remain separate from all other equipment within or on the building, except hand tools used in conjunction with the equipment. If the building is provided with an emergency power system, the equipment circuit may be designed so it may be connected to the emergency circuit.

(f) The power circuit shall be provided with a cutoff switch that can be locked in the "OFF" position. To allow the equipment operators access to the switch, it shall be conveniently located relative to the primary operating area of the equipment.

(g) Power and communication outlets shall be located at the approximate elevation of the primary equipment operating area. The outlets should be located so that no more than 100 ft (30.38 m) of supply cable need be used for the horizontal area being traversed.

(h) The power circuit shall contain a separate equipment electrical grounding conductor.

(i) Carriage track systems shall be electrically connected to an earth ground.

(j) *Communication Facilities.* A two-way voice communication system shall be provided between the equipment operators and manned station while the working platform is in use. The communication facility shall be operable and manned at all times when the equipments is being used.



3.11 Control, Power Circuits, and Components

Power and control circuits shall operate by hydraulic, pneumatic, electrical, or other suitable means that provide at least the minimum safety requirements as set forth in this Standard.

3.11.1 Electrical Grounding.

All exposed noncurrent-carrying metal parts shall be grounded. The equipment grounding shall be done by means of a grounding conductor included in the power cable used for connecting the equipment to the supply. The grounding conductor shall be bonded to the equipment metal frame at one end and terminated in the grounding contact of an approved grounding-type attachment plug at the supply end. All exposed noncurrent-carrying metal parts of the equipment shall be considered grounded if secured to and in metal contact with the grounded equipment frame. Suspended equipment, if not directly connected to the supply, shall either be grounded by a grounding conductor in the cable used to carry control or power and communications between the suspended equipment and the carriage or may be grounded by the steel support ropes, provided that the steel ropes are properly bonded to both the suspended equipment and the grounded carriage to ensure a good grounding connection.

Any track system used in conjunction with traversing of equipment shall be electrically grounded.

3.11.2 Electrical Wiring and Components

3.11.2.1 General Requirements.

Electrical wiring and components shall conform to the requirements of the standards adopted by the National Fire Protection Association (National Electrical Code) or the JIC Electrical Standards for General Purpose Machine Tools (EGP 1-67), except as modified by this Standard.

(b) Runway Conductor System. Electrical runway conductor system shall be of a type designed for use in exterior locations and shall be located so they are not subject to contact with accumulated snow or water. The conductors, collectors, and disconnecting means shall be in accordance with the applicable requirements of the National Electrical Code, as stated in para. 2.3.6.

(c) Power Supply for Maintenance Tools. Electrical power may be provided to outlets on the carriage and on the suspended or supported unit for operation of maintenance tools.

3.11.2.6 Traveling Cable

(a) Traveling Cable Provisions. Conductors for control, power, communication, signal circuits, and grounding connection may be run in the same traveling cable, provided that all conductors are insulated for not less than 600 V and all live parts of the equipment are insulated from ground for this voltage.

(b) Protection of Traveling Cable. Means shall be provided so that the traveling cable is protected against damage from striking the building or structure, over-tensioning, or other causes (see paras. 2.3.6 and 3.7.6.3)

(c) Storage of Traveling Cable.

(1) On manned platforms, cable shall be wound on drums designed for that purpose or placed in a container outside of the working area.

(2) On ground-rigged manned platforms, cable may be wound on drums at the boarding elevation or contained as described above.

3.11.2.2 Circuit Protection.

The building power supply for the equipment shall be an independent circuit provided with a disconnect switch.

3.11.2.3 Guarding of Electrical Parts.

An uninsulated live part that is a shock hazard shall be located or enclosed so that protection will be during normal operation.

3.11.2.4 Circuit Potential Limitations.

(a) Circuit potential installed on a roof or other exterior location for service to the equipment shall not exceed 600 V, except when located at street or grade elevations, in which case the potential shall be limited to 230 V.

(b) Circuit potential to electrical components on manned platforms shall not exceed a nominal voltage of 480 single or polyphase.

(c) Circuit potential permitted for operating devices, limit switches, and electrical interlocks shall not exceed a nominal voltage of 230 single phase.

(d) Circuit potential limitations for hand power tools used on a working platform shall not exceed a nominal voltage of 230 single phase, which may be included in the equipment's power circuit.

3.11.2.5 Equipment Electrical Service System

(a) Receptacle and Cable System (Power). Provisions for electrical grounding shall be included with the power supply system. All supply receptacles shall be of a weatherproof type and shall be installed in accordance with para. 2.3.6.

16 Retrofit of New, Power Operated Systems Dedicated to the Building

16.3.3 Electric cable and separate hanging lifelines shall be stabilized against displacement by the wind at vertical intervals not exceeding 200 feet (61 m). The means of stabilization may be independent of the building face being cleaned.

16.4 Electrical Provisions on the Building

16.4.1 Electrical outlet shall provide electrical service on a common dedicated circuit that matches the electrical power requirements of the equipment's operation and service including its peak amps, volts and phase. At least one outlet shall be provided for each building level from which the equipment is supported. Additional outlets shall be provided on large roof areas and spaced a maximum of 200 feet (61 m) between outlets. Each outlet shall have a strain relief device which can be secured to the receptacle's anchorage.

16.4.2 The electrical design of the power supply shall be in accordance with (a) through (f).

(a) Building wire sizes shall be of such capacity that not more than a 3% voltage drop from nominal equipment requirements shall occur at each building outlet when full load is applied to the circuit.

(b) Each power communication outlet shall be provided with an adjacent strain relief anchorage to prevent force being applied to the outlet or to the conduit leading to the outlet by movement of the equipment. All outlets (receptacles) shall be of the twist lock type.

(c) The equipment power supply should be from an independent electrical circuit that will remain separate from all other equipment within or on the building. If the building is provided with an emergency power system, the equipment circuit may be designed so that it is connected to the emergency circuit

(d) The power circuit shall be provided with a cut-off switch that can be locked in the ON or OFF position. The switch shall be conveniently located with respect of the primary operating area of the equipment to allow the operators of the equipment access to the switch.

(e) Power and communication outlets shall be located at the approximate elevation of the primary equipment operating area.

(f) The power circuit shall contain a separate equipment ground conductor that shall be connected to an earth ground.

ELECTRICAL POWER OUTLET REQUIREMENTS [SUPPLIED BY OTHERS]			
OUTLET TYPE		WEATHERPROOF POWER OUTLET WITH STRAIN RELIEF EYEBOLT	
VOLTAGE		208V	
PHASING		SINGLE PHASE	
FREQUENCY		60 HZ	
AMPERAGE		30A	
VOLTAGE DROP		NO MORE THEN 3% DROP IN VOLTAGE AT ANY OUTLET	
RECEPTACLE		SAFETY-SHROUD, TWIST-LOCK	NEMA NO.
HUBBLL NO.	FEMALE	HBL2620SW	L6 - 30R





Summit Anchor Co.
SAFETY FROM THE TOP DOWN



DAVIT MANUAL

Suspended Access Systems and Fall Protection

