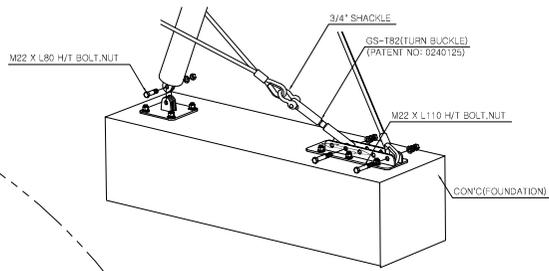
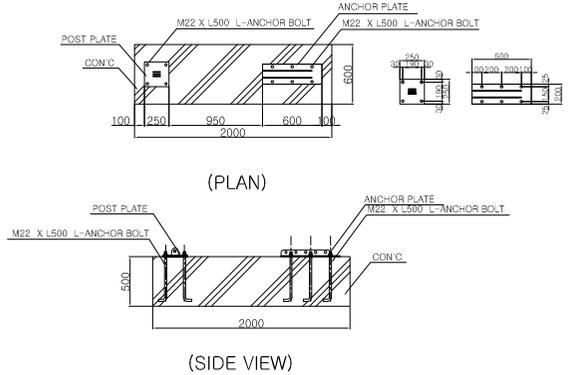


NET JUMPER  
GS-W5002

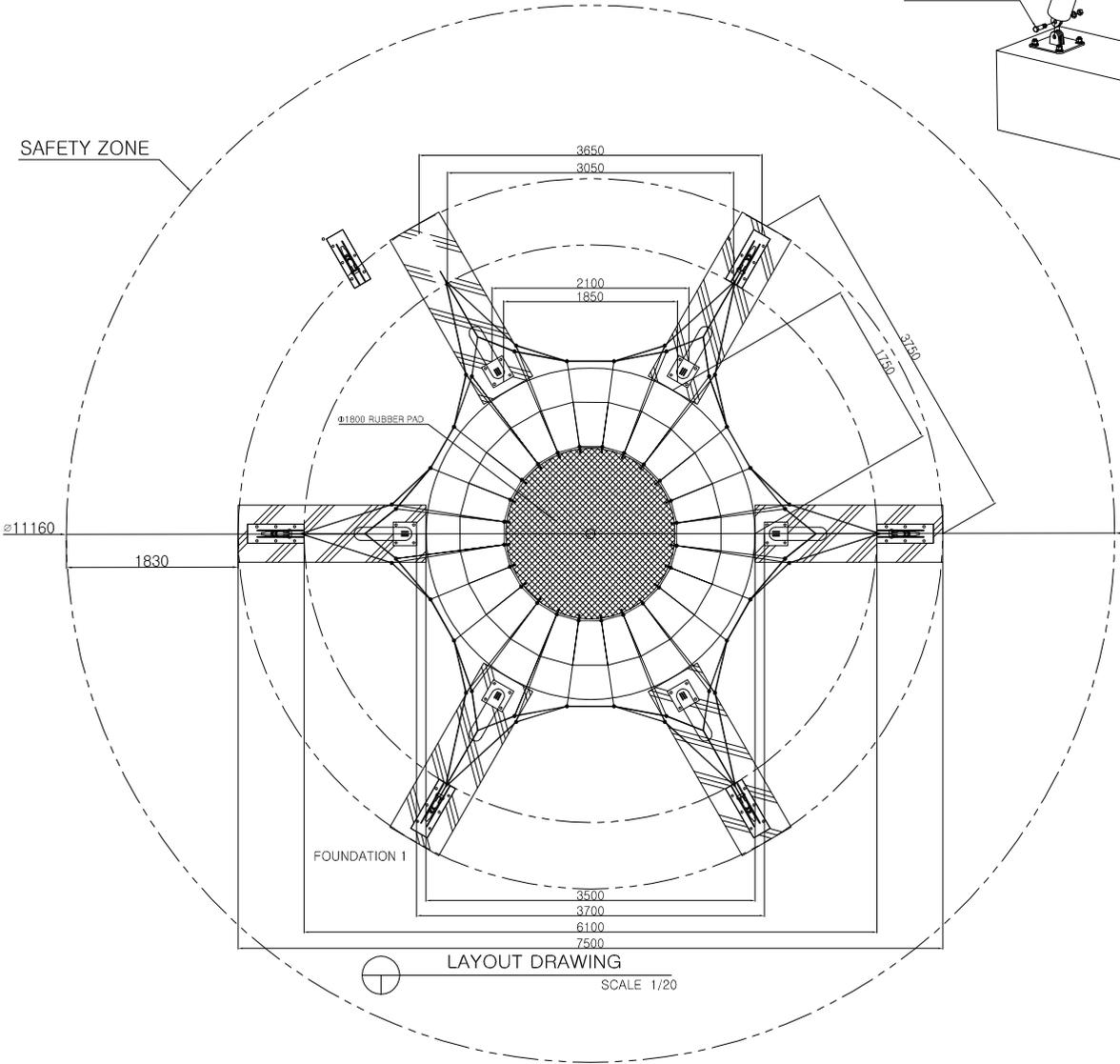
CONNECTOR DETAIL



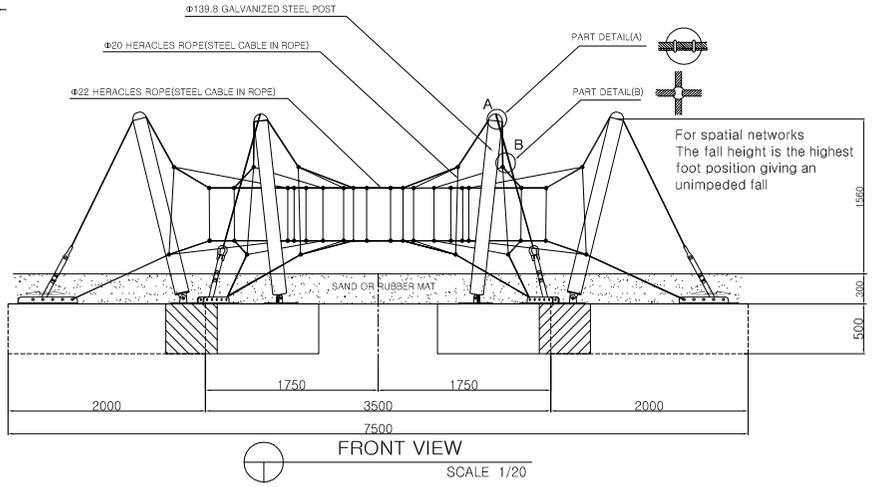
FOUNDATION 1 DETAIL



SAFETY ZONE



LAYOUT DRAWING  
SCALE 1/20



FRONT VIEW  
SCALE 1/20

For spatial networks  
The fall height is the highest  
foot position giving an  
unimpeded fall

# GS-W5002

## PARTS CHECK LIST

NO.	Name	QTE	Description	Size	Material	Remarks
1	MP139	6	MAIN POST	Φ139.8 X L1800	Galvanized Steel	UV polyester powder coating
2	RC22	1 SET	MULTI COMPOUND ROPE	Φ22, Φ20	Nylon	
3	NCP150	6	POST CAP	Φ150	MC Nylon	
4	TB50	6 SET	TURN BUCKLE(GS-T82)	Φ50	Galvanized Steel	
5	ACS78	6	ANCHOR SHACKLE	M22	Galvanized Steel	
			<b>BOLT,NUT</b>			
6	MPTS22	6	H/T BOLTS	M22 X L80		main post assembly
	MPNU22	6	NUTS	M22		
	MPWA22	6	WASHERS	M22		
	MPSW22	6	SPRING WASHERS	M22		
7	TBHT22	12	H/T BOLTS	M22 X L110		turn buckle assembly
	TBNU22	12	NUTS	M22		
	TBWA22	12	WASHERS	M22		
	TBSW22	12	SPRING WASHERS	M22		
			<b>BASE</b>			
8	MPP	6	MAIN POST PLATE	250 X 250	Galvanized Steel	
9	L-B78	24	L-ANCHOR BOLTS	M22 X L500	Galvanized Steel	
	L-N78	48	NUTS	M22	Galvanized Steel	
	L-SW78	24	SPRING WASHERS	M22	Galvanized Steel	
	L-W78	24	WASHERS	M22	Galvanized Steel	
10	ACP	6	ANCHOR PLATE	600 X 200	Galvanized Steel	
9	L-B78	36	L-ANCHOR BOLTS	M22 X L500	Galvanized Steel	
	L-N78	72	NUTS	M22	Galvanized Steel	
	L-SW78	36	SPRING WASHERS	M22	Galvanized Steel	
	L-W78	36	WASHERS	M22	Galvanized Steel	
11	GSSP	1	TOUCH UP SPRAY			

## **GSWeb Playground Equipment**

1046-3, Najeon-ri, Saengnim-myeon,  
Gimhae-si Gyeongsangnam-do,  
621-821, Republic Of Korea  
Tel) +82. 55. 326. 9096~7  
Fax) +82. 55. 326. 9022  
E-mail) gswebinfo@chol.com  
Web site) www.gsweb21.com



## Features

The series is a specialty climbing structure featuring a flexible center area surrounded by netting. It is made of steel-loaded Nylon cables with UV guard and the landing surface is a textile-reinforced flexible rubber material.

The GS-W5002 features **GS Web technology** which includes the highest steel content and the strongest connection materials in the industry, including a steel-wire core in our edge ropes and connection points crushed in place with over 75 tons of pressure to ensure long life of the games and maximum safety for the children.

GS Web Nets help bring movement, balance, exercise and fun back into the playground.

**Ages: 6 to 12 years**

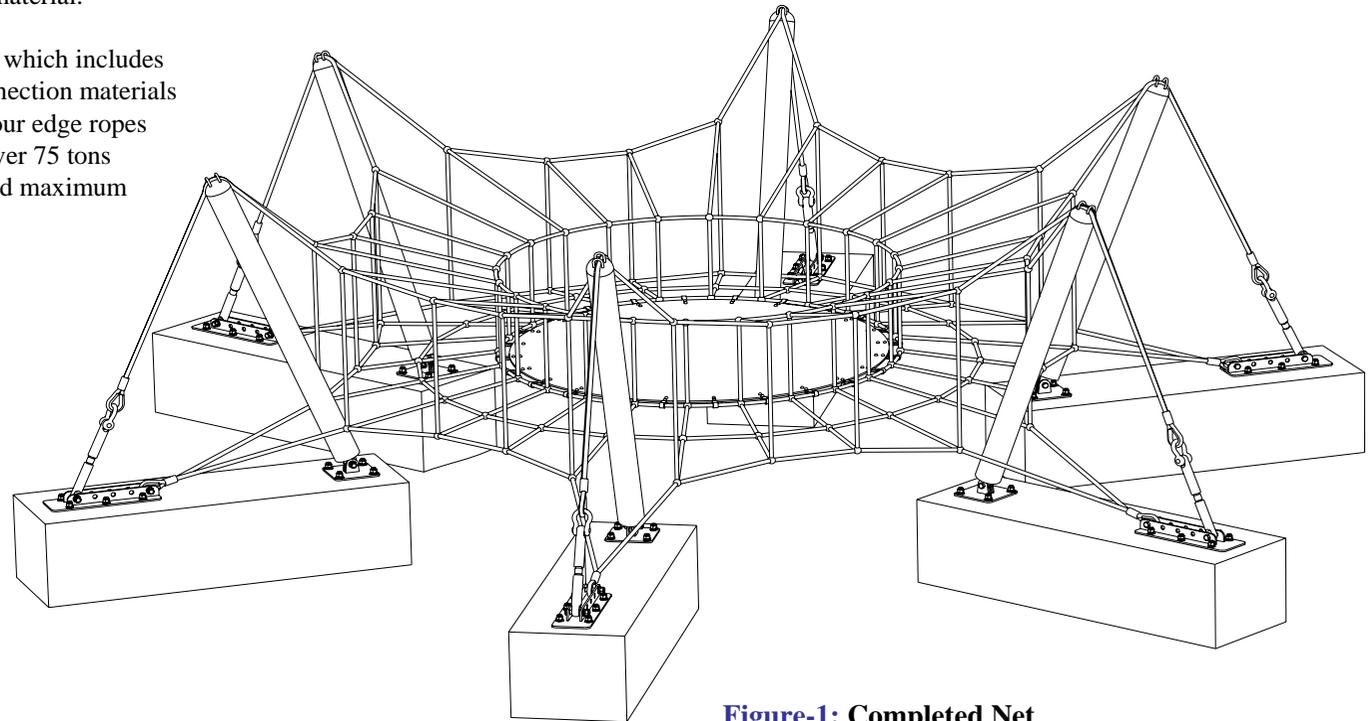
**Capacity: 17 children**

**Size: D: 24' 7" / 7.50m**

**H: 4' 11" / 1.50m**

**Use zone**

**D: 34' 5" / 10.50m**



**Figure-1: Completed Net**

**Safety area**

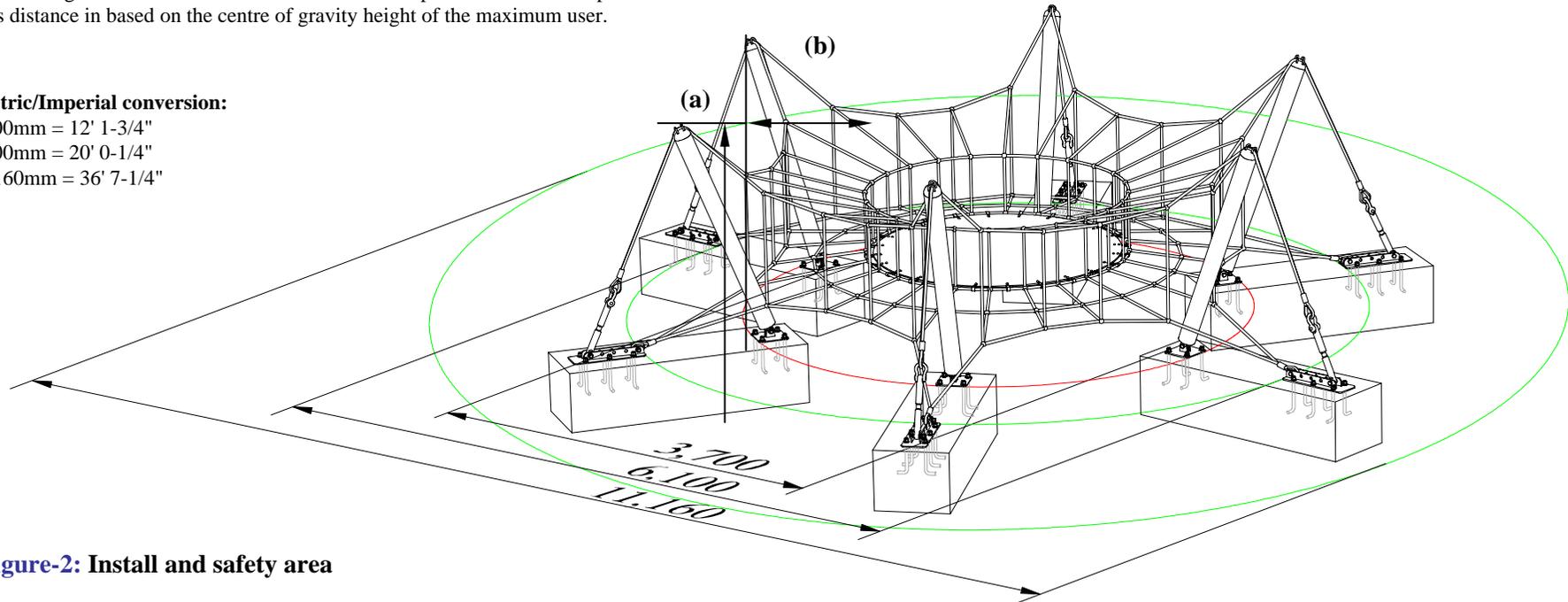
The requirements for space and safety clearances are taken from BS-EN 1176-1 / ASTM-F1487 / CSA Z614  
 The use zone for stationary play equipment shall extend no less than 72 in. (1830mm) from all sides of the play structure.

**Fall Height : (a) 4' 11" / 1500mm (from surface)**

The Fall height on the external surface of a pyramid shaped space net is the highest point attainable within a horizontal distance of **(b) 44" / 1100mm** from the edge of the structure where a free fall to the protective surface is possible. This distance is based on the centre of gravity height of the maximum user.

**Metric/Imperial conversion:**

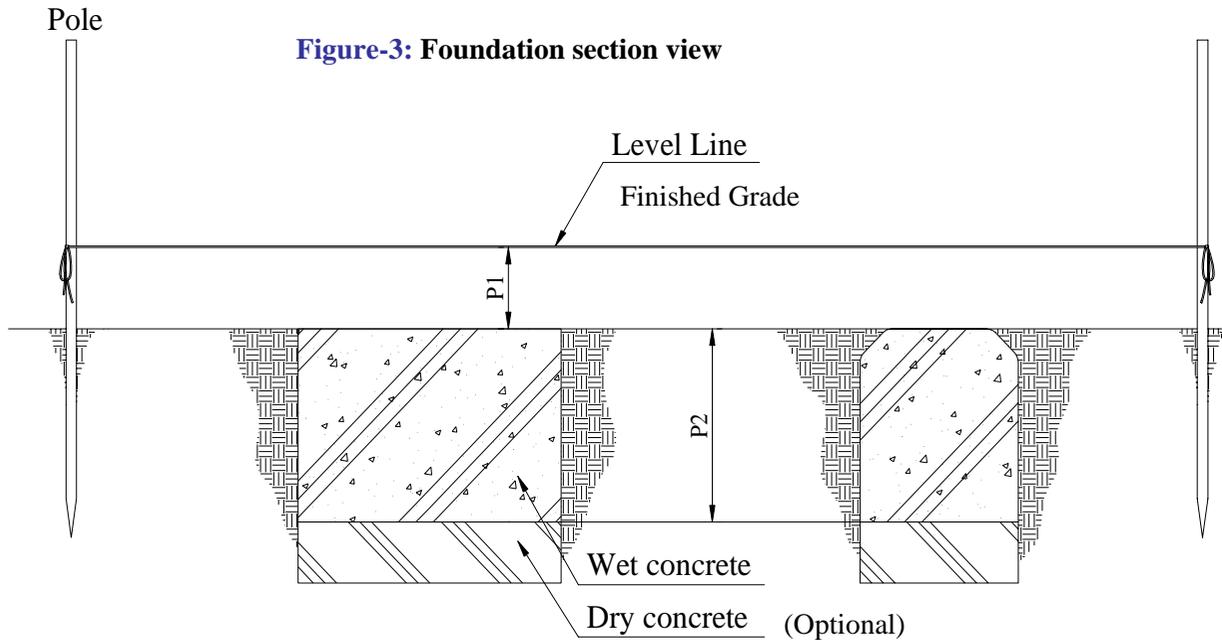
3700mm = 12' 1-3/4"  
 6100mm = 20' 0-1/4"  
 11160mm = 36' 7-1/4"



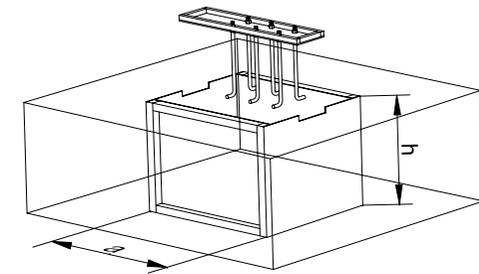
**Figure-2: Install and safety area**

## Foundation

Please refer to GS-W5002 drawing for exact installation dimensions



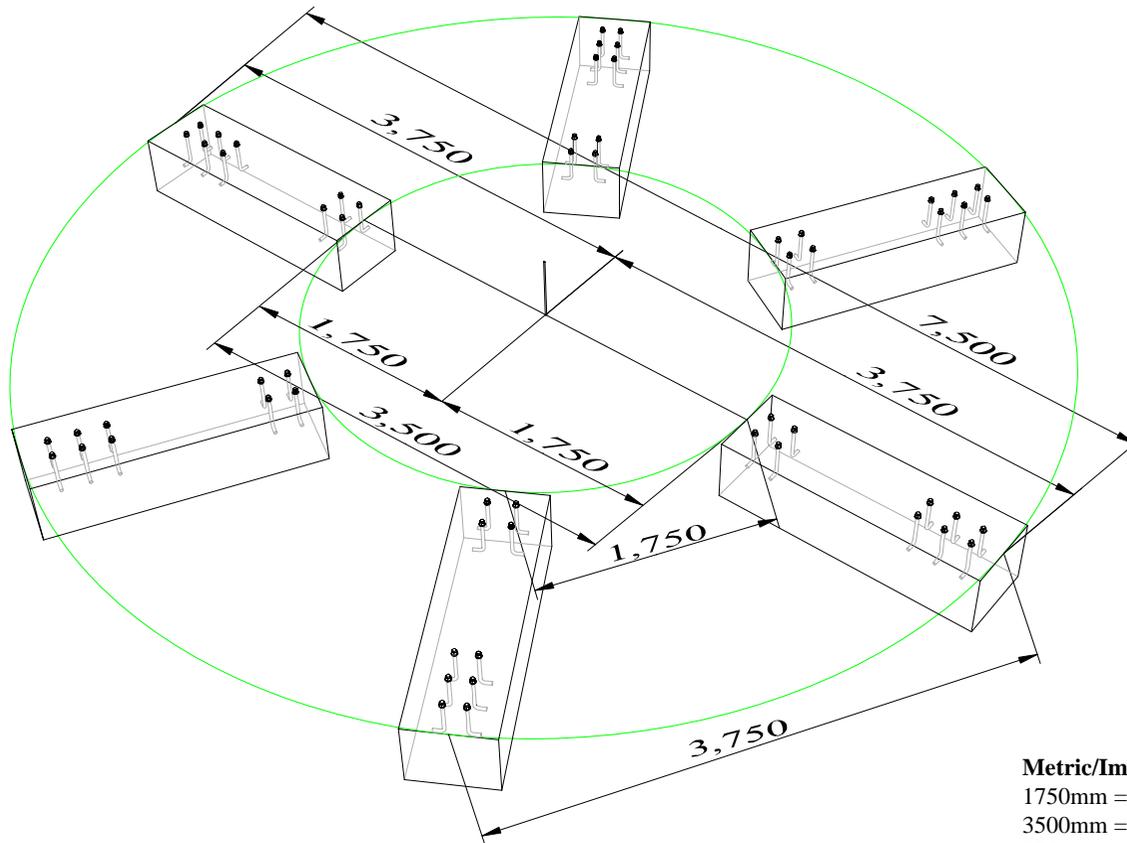
**P1 = Depth below finished Grade (12" / 300mm)**  
**P2 = Depth of concrete footing (19-2/3" / 500mm)**



**Figure-4: Excavate enough materials to allow for proper depth of concrete footings**

Also ensure that there is enough space to allow the frame to be positioned properly.

Anchor wood support frame to ground with pickets to prevent the frame from moving while concrete is poured and sets.



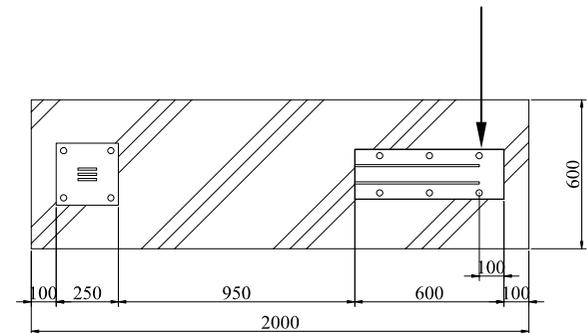
**Figure-5: Concrete footing and Anchor plate Layout**

**Note:** Total distance from front of block to front of block is 11' 5-3/4" (3500mm)

**Positioning Anchor plate on footing**

[CF] 'L' anchor hole

Front edge of anchor plate must be installed 4" / 100mm from edge of concrete footing.



**Metric/Imperial conversion:**

1750mm = 5' 8-7/8"  
3500mm = 11' 5-3/4"  
3750mm = 12' 3-5/8"  
7500mm = 24' 7-1/4"

**Metric/Imperial conversion:**

100mm = 4"      950mm = 3' 1-3/8"  
250mm = 9-7/8"      2000mm = 6' 6-3/4"  
600mm = 1' 11-1/2"

Assemble wooden support frames \*  
4 frames (78-3/4" / 2000mm L x 23-2/3" / 600mm W x 19-2/3" / 500mm H)

\*Use 1/2" (min) plywood; not included in package

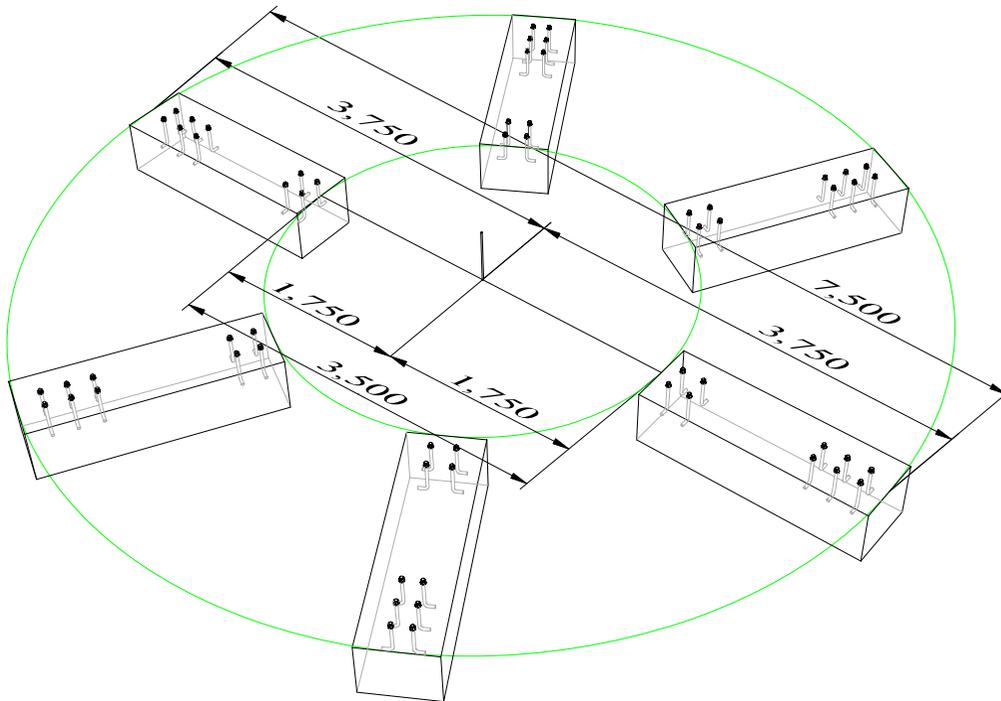
**Concrete**

Pour concrete\* into wooden support frame until flush to top edge  
Allow 3-5 days for concrete to cure before proceeding to next step.

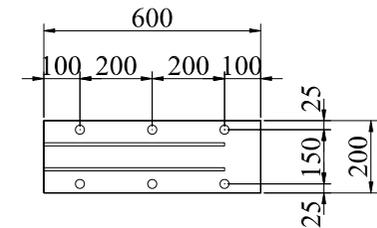
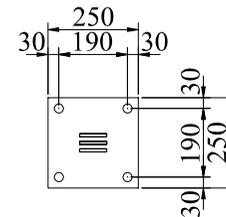
\*Concrete is to be wet concrete with minimum 25 MPA.

**Remove wood support frame from dry concrete blocks**

After concrete has cured enough, remove frame and replace soil in area around footing to subgrade level



**Figure-6: Concrete footing**



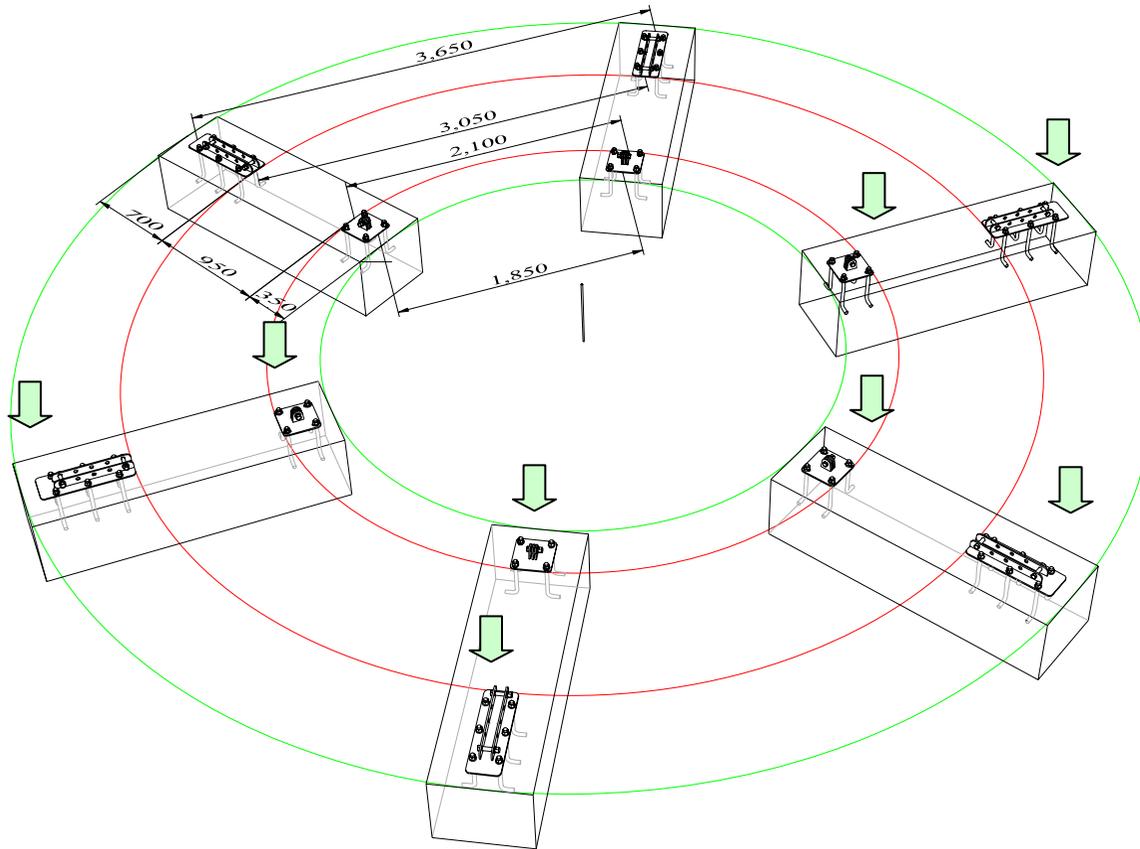
**NOTE:** Use anchor plate as guide for exact measurements.

**Metric/Imperial conversion:**

1750mm = 5' 8-7/8"  
3500mm = 11' 5-3/4"  
3750mm = 12' 3-5/8"  
7500mm = 24' 7-1/4"

**Metric/Imperial conversion:**

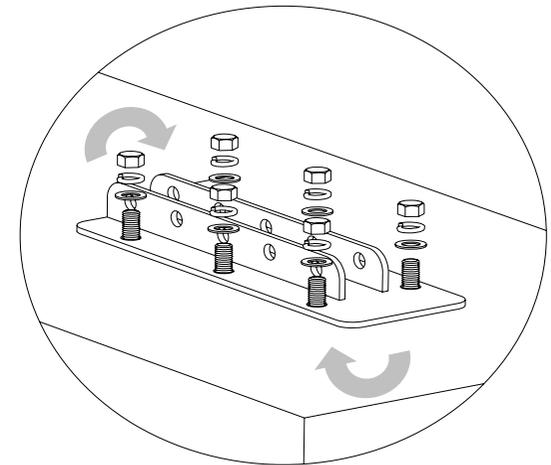
25mm / 30mm = 1"    200mm = 7-7/8"  
100mm = 4"        250mm = 9-7/8"  
150mm = 6"        600mm = 1' 11-1/2"  
190mm = 7-1/2"



**Figure-7: Attach Anchor plate to footing with flat washer, locking washer and nut.**

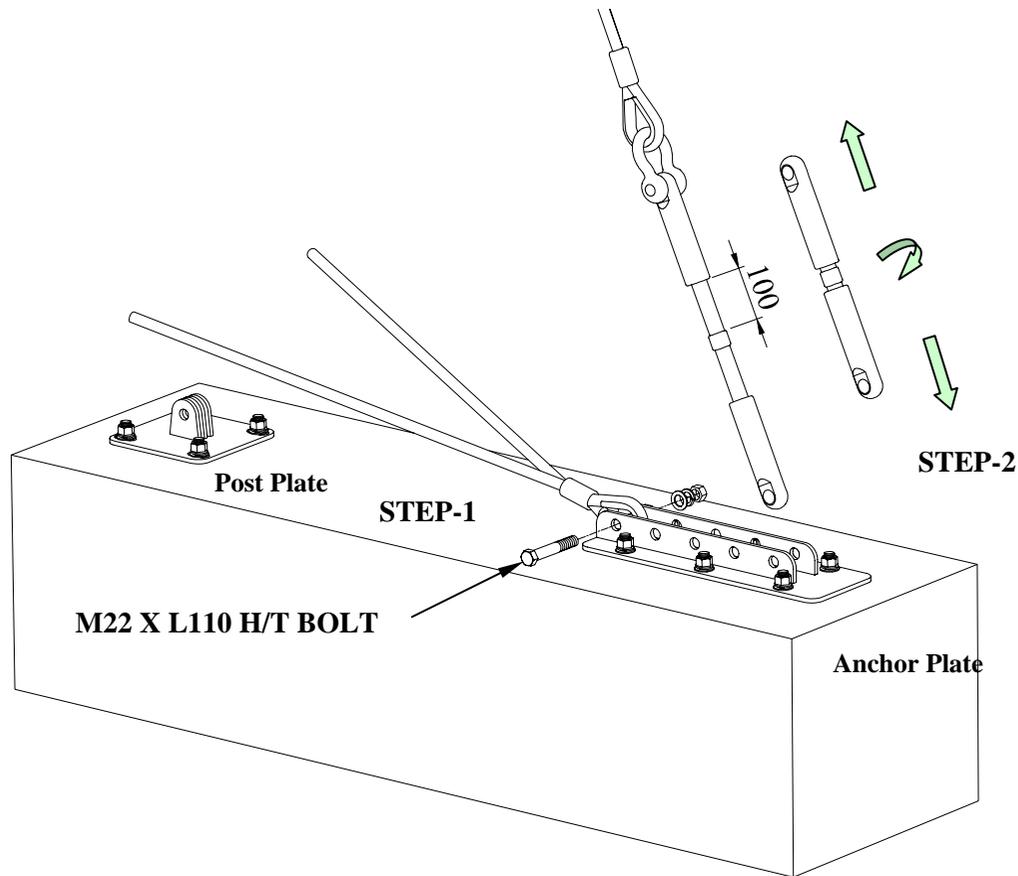
**Plate Assembly**

Concrete block-clean threads of "L" anchor bolts.  
Attach Anchor plate to footing



**Metric/Imperial conversion:**

- 350mm = 1' 1-3/4"
- 700mm = 2' 3-1/2"
- 950mm = 3' 1-1/2"
- 1850mm = 6' 0-7/8"
- 2100mm = 6' 10-3/4"
- 3050mm = 10'
- 3650mm = 11' 11-3/4"



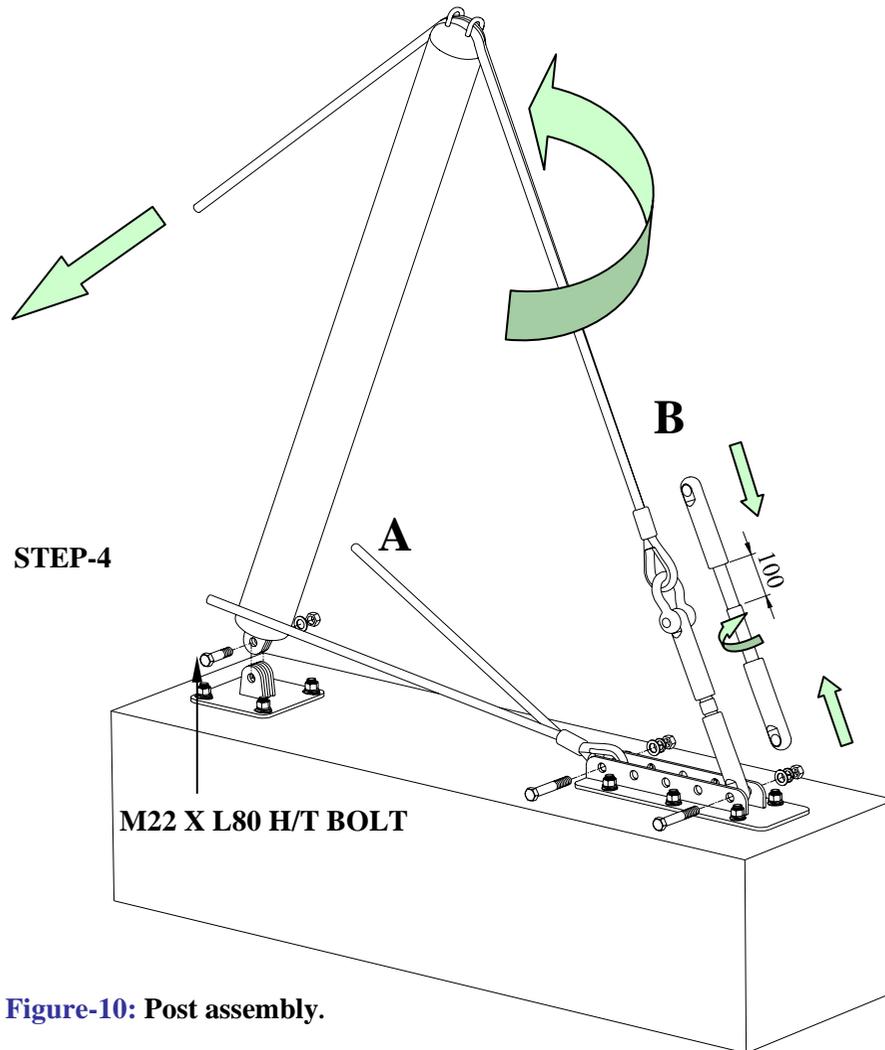
**Figure-8: Attach Turnbuckle and rope**

**Main rope assembly**

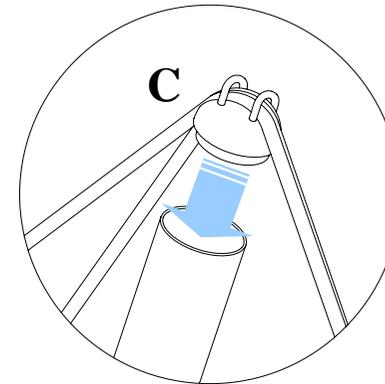
Step 1: Attach bottom rope with M22 X L110 H/T BOLT as shown in Figure 9

Step 2: Attach Turnbuckle to anchor plate with M22 X L110 H/T BOLT.

Loosen Turnbuckle all the way (about 100mm), leaving only 4 or 5 threads attached



**Figure-10: Post assembly.**



**STEP-3**

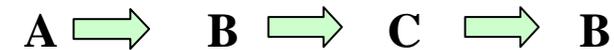
**Note:** Rubber mallet may be required to insert cap into post.

**Figure-9: Post cap assembly.**

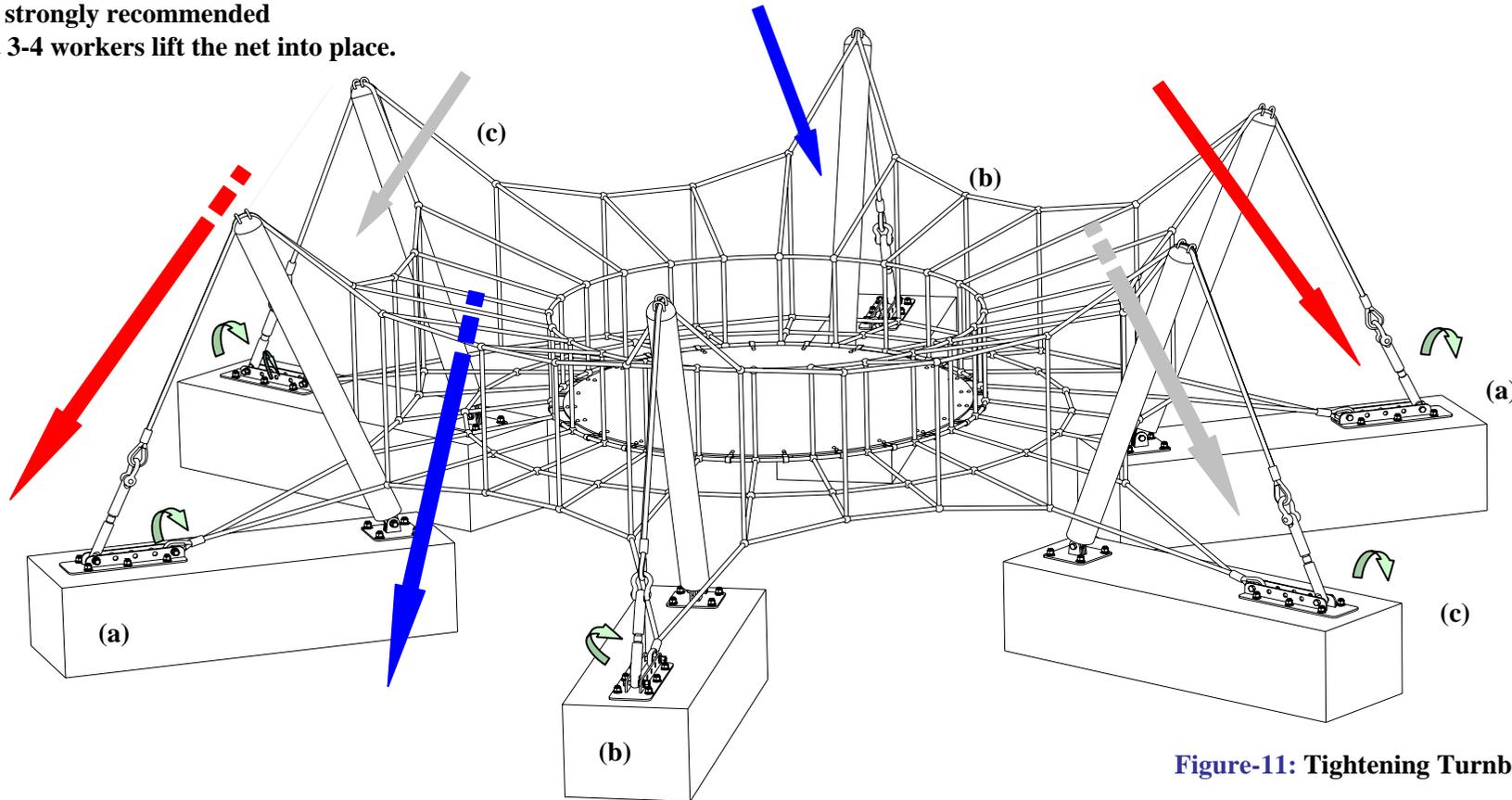
**Post assembly**

Step 3: Attach Post Cap to Post (Figure 10)

Step 4: Attach Post to Post base with M22 X L80 H/T BOLT (Figure 11)



It is strongly recommended that 3-4 workers lift the net into place.



**Figure-11: Tightening Turnbuckles**

**NOTE:** Make sure post is level before tightening and remains level during process.

- (a) + (a) Tighten Rope with Turnbuckles at the Same time
- (b) + (b) Tighten Rope with Turnbuckles at the Same time
- (c) + (c) Tighten Rope with Turnbuckles at the Same time

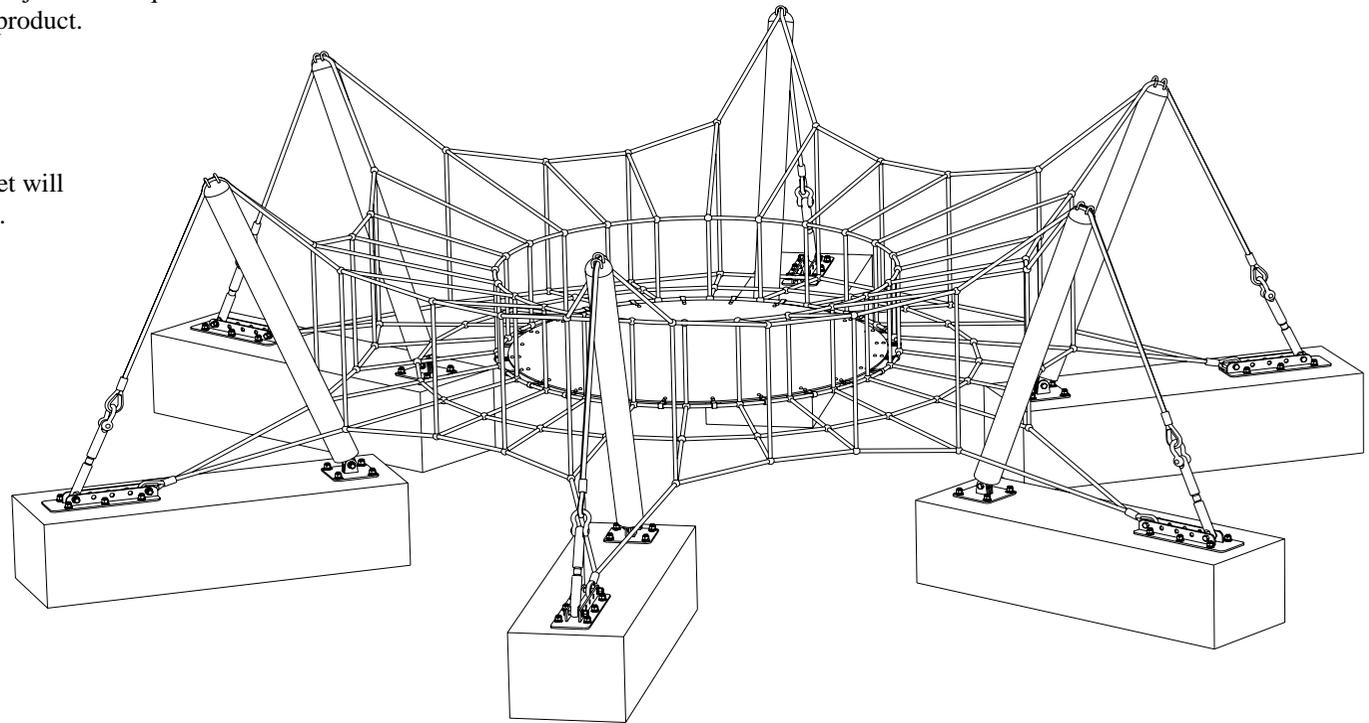
**Maintenance information**

Please tighten rope with Turnbuckle properly.  
 If you strain the net too much, it may cause damage.  
 It is also recommended that subsequent checks on tension should be carried out at monthly intervals and adjusted as required.  
 This will increase the overall longevity of the product.

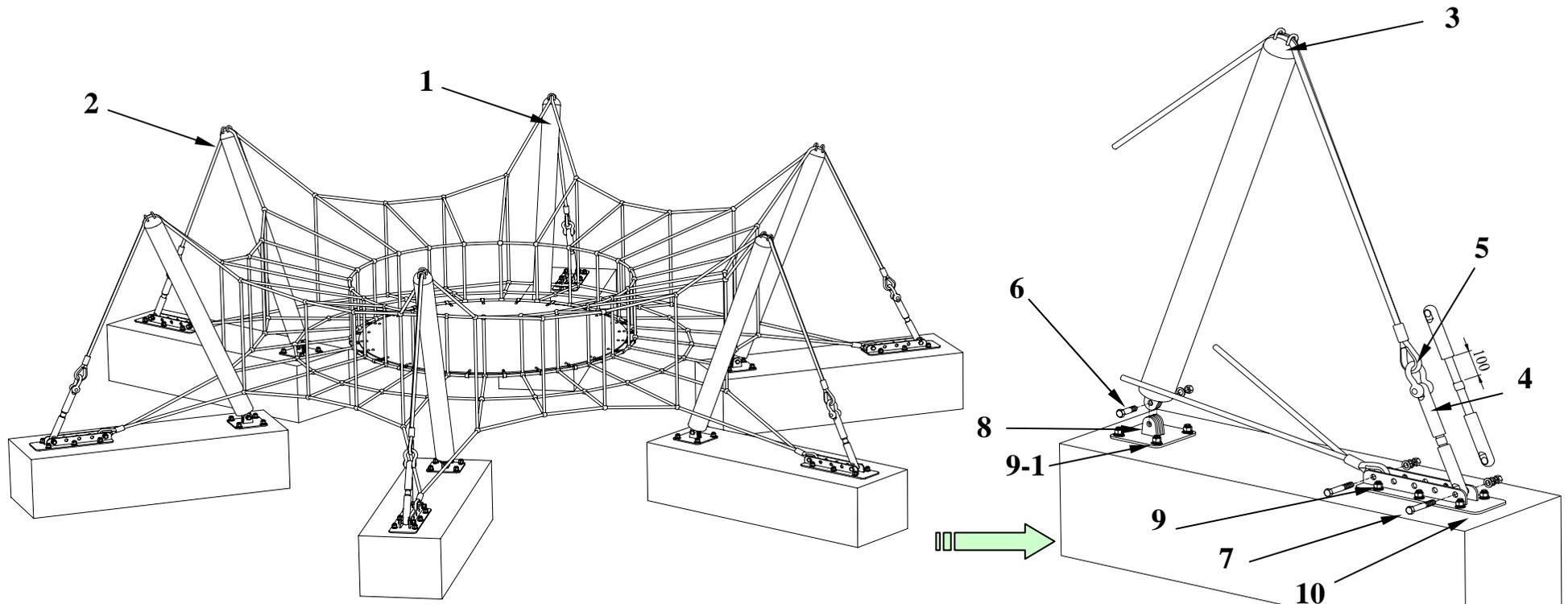
**Checking: 1 month**

Refer to IPEMA and TUV maintenance system.

After Net structure tension is completed, the net will stretch slightly over the first four weeks of use.  
 Following this initial period, the net needs to be fully re-tensioned by Turnbuckle after 1 year.



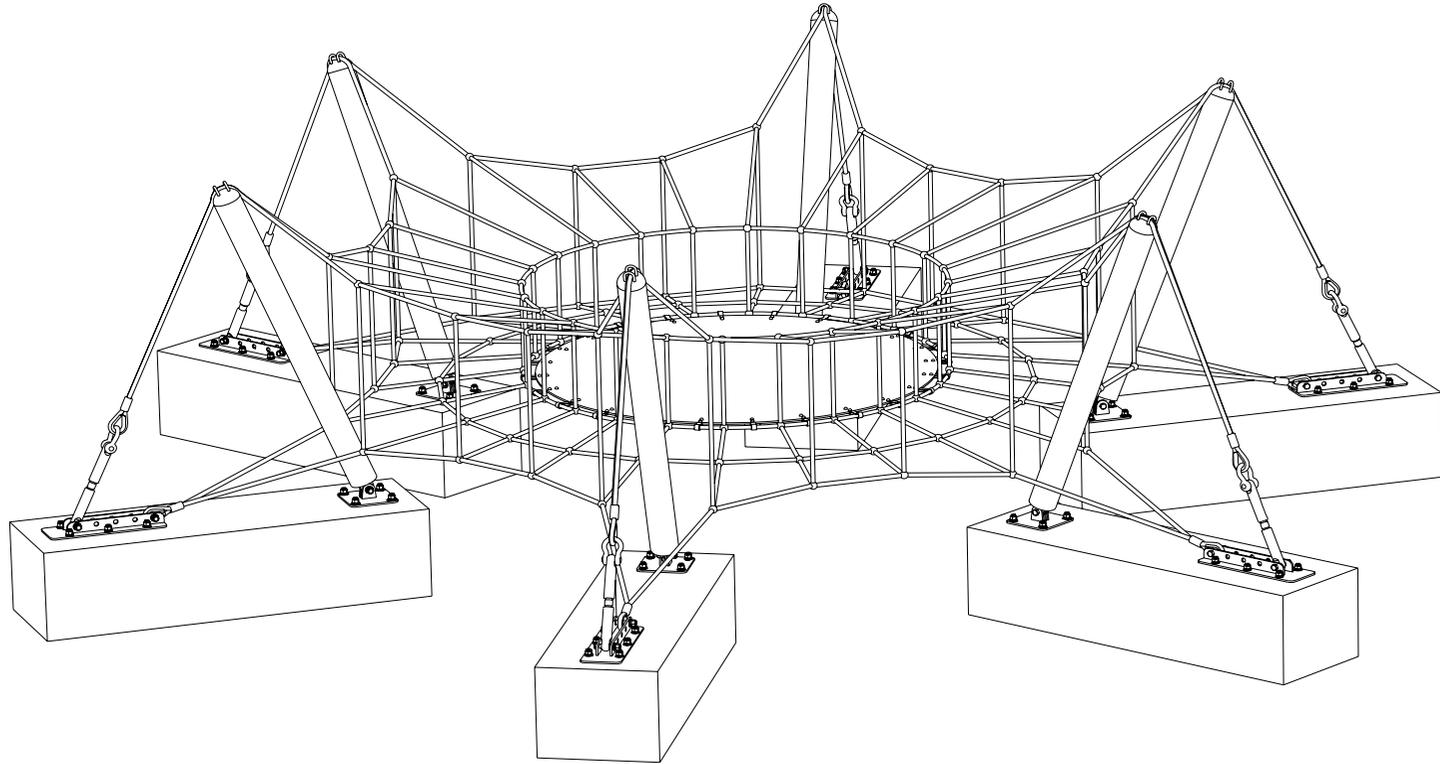
**Figure-12: completed Net**



- 1: main post
- 2: multi compound rope
- 3: post cap
- 4: turn buckle
- 5: anchor shackle

- 6: T/S bolt,nut, washer
- 7: H/T bolt,nut, washer
- 8: post plate
- 9: L-anchor bolt,nut,washer
- 10: Anchor plate

**A weekly check of the activity net is recommended to ensure that no acts of vandalism have damaged the rope. Periodic checks on tension will assist in the durability of the product.**



### A. General safety measures

On the playground there should be a sign(pictogram) giving the following information:

- a) general emergency telephone number;
- b) telephone number to contact maintenance personnel;
- c) name of the playground;
- d) address of playground; and
- e) other relevant local information, if applicable.

The entry, exit and emergency paths to and from a playground, intended for use by the public and emergency services, should be accessible and free of obstacles at all times.

NOTE Attention is drawn to local regulations.

### B. Procedures

Defects that occur during operation and which put safety at risk should be corrected without delay. If this is not possible, the equipment should be secured against use e.g. by immobilization or removal.

There should be written operational procedures covering the measures to be taken in the event of accidents, fire and the like.

Until unsafe equipment is repaired and released for use, access by the public should be prevented. Information about accidents brought to the attention of the manager should be recorded on a form that includes the following details:

- a) date and time of accident;
- b) age and sex of victim and clothing worn, including footwear;
- c) equipment involved;
- d) number of children on site at the time of the accident;
- e) description of accident;
- f) injury sustained including part(s) of body affected;
- g) action taken;
- h) witness statements;
- i) any subsequent equipment modification;
- j) weather conditions; and
- k) any other relevant information.

### C. Routine maintenance

To reduce accidents, the owner or operator should ensure that an appropriate routine maintenance schedule is established, implemented and maintained. This should take into account local conditions and the manufacturer's instructions that can affect the necessary inspection frequency. The schedule should list the components to be maintained and should also give procedures for dealing with complaints and breakdowns.

The routine maintenance of playground equipment and surfaces should consist of preventative measures to maintain their level of safety, performance and compliance with the relevant part(s) of EN 1176. Such measures should include:

- a) tightening of fastenings;
- b) re-painting and re-treatment of surfaces;
- c) maintenance of any impact attenuating surfaces;
- d) lubrication of bearings;
- e) marking of equipment to signify loose fill finished surface level;
- f) cleaning;
- g) removal of broken glass and other debris or contaminants;
- h) restoring loose fills to the correct level; and
- i) maintenance of free space areas.

### D. Corrective maintenance

Corrective maintenance should include measures to correct defects, or to re-establish the necessary levels of safety of the playground equipment and surfaces. Such measures should include:

- a) replacement of fastenings;
- b) welding of welding repairs;
- c) replacement of worn or defective parts; and
- d) replacement of defective structural components.

### E. Personal safety

Repairs during operation that could put the safety of maintenance personnel of the public at risk, should be avoided.

### F. Equipment alterations

Alterations to parts of a piece of equipment or structure that could affect the essential safety of the equipment should only be carried out after consultation with the manufacturer or a competent person.