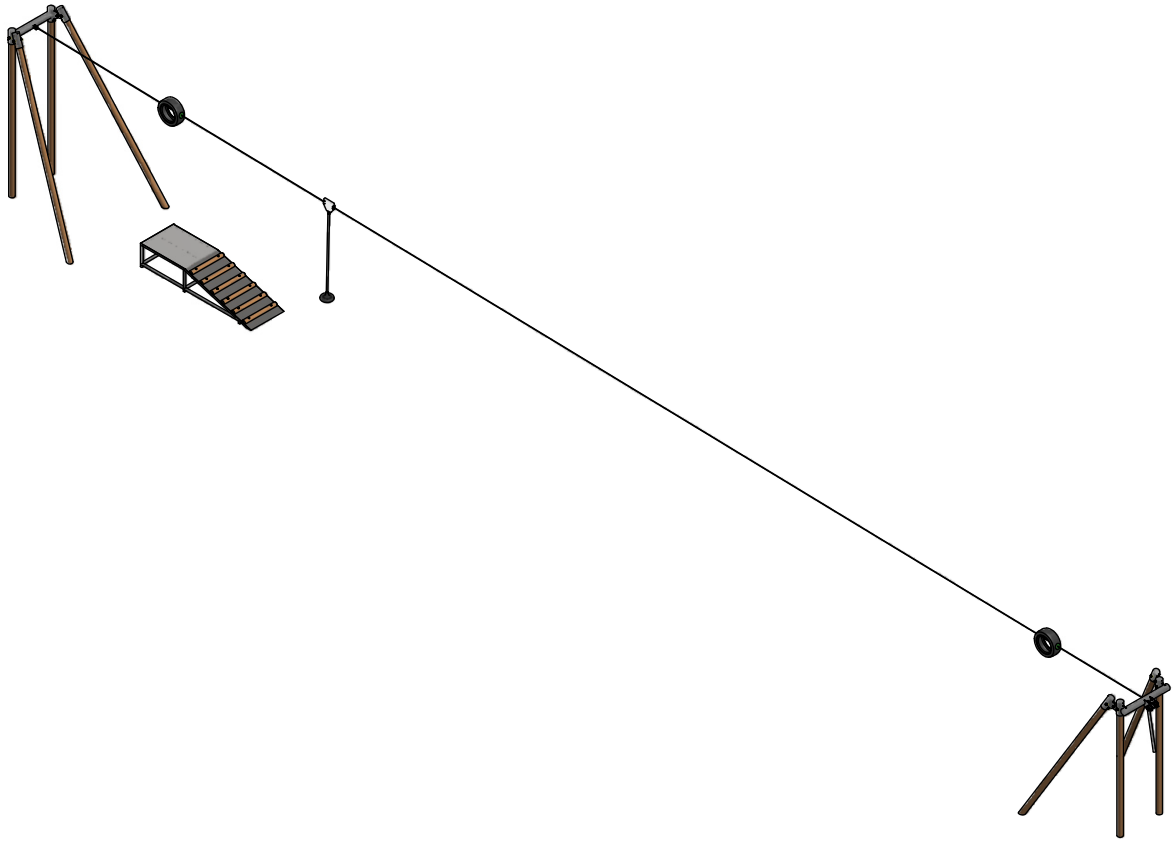


TRADITIONAL	
30m CABLE RUNWAY	
PROD. CODE	CBW30
SIZE	30.4m (L) x 2.7m (W) x 4.0m (H)
FFH	0.9m
AGE RANGE	8-16 YEARS OLD

TECHNICAL DATA	
MINIMUM SPACE REQUIRED	32.4m x 4.0m
SUPERVISED PLAY	RECOMMENDED
EQUIPMENT TYPE	LOW LEVEL
LARGEST PART	4.6m x 0.125m (TIMBER UPRIGHT)
HEAVIEST PART	130KG (STATION ASSY)

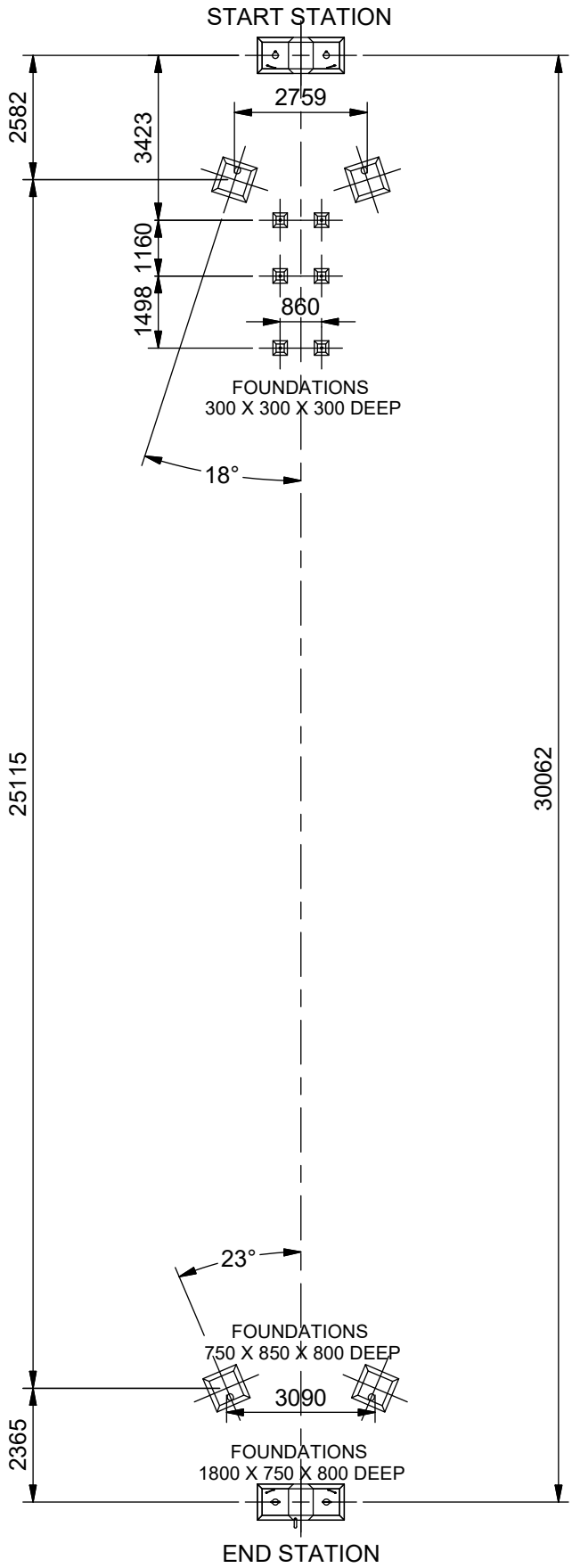
INSTALLATION DETAILS

1. READ INSTALLATION INSTRUCTIONS THOROUGHLY BEFORE COMMENCING INSTALLATION OF UNIT
2. EXCAVATE FOUNDATIONS USING THE DETAIL AS SHOWN ON PAGE 2 OF THIS DOCUMENT
3. ENSURE TO CHECK AND TIGHTEN ALL FIXINGS USING PROTECTIVE CAPS WHERE NECESSARY
4. BACKFILL FOUNDATIONS WITH 4.8 CUBIC M CONCRETE ALLOWING TO SET FOR 48 HOURS
5. REMOVE ALL ASSEMBLY AIDS BEFORE THE EQUIPMENT IS USED
6. ENSURE AN 'ID' PLATE HAS BEEN FIXED TO THE UNIT BEFORE LEAVING SITE

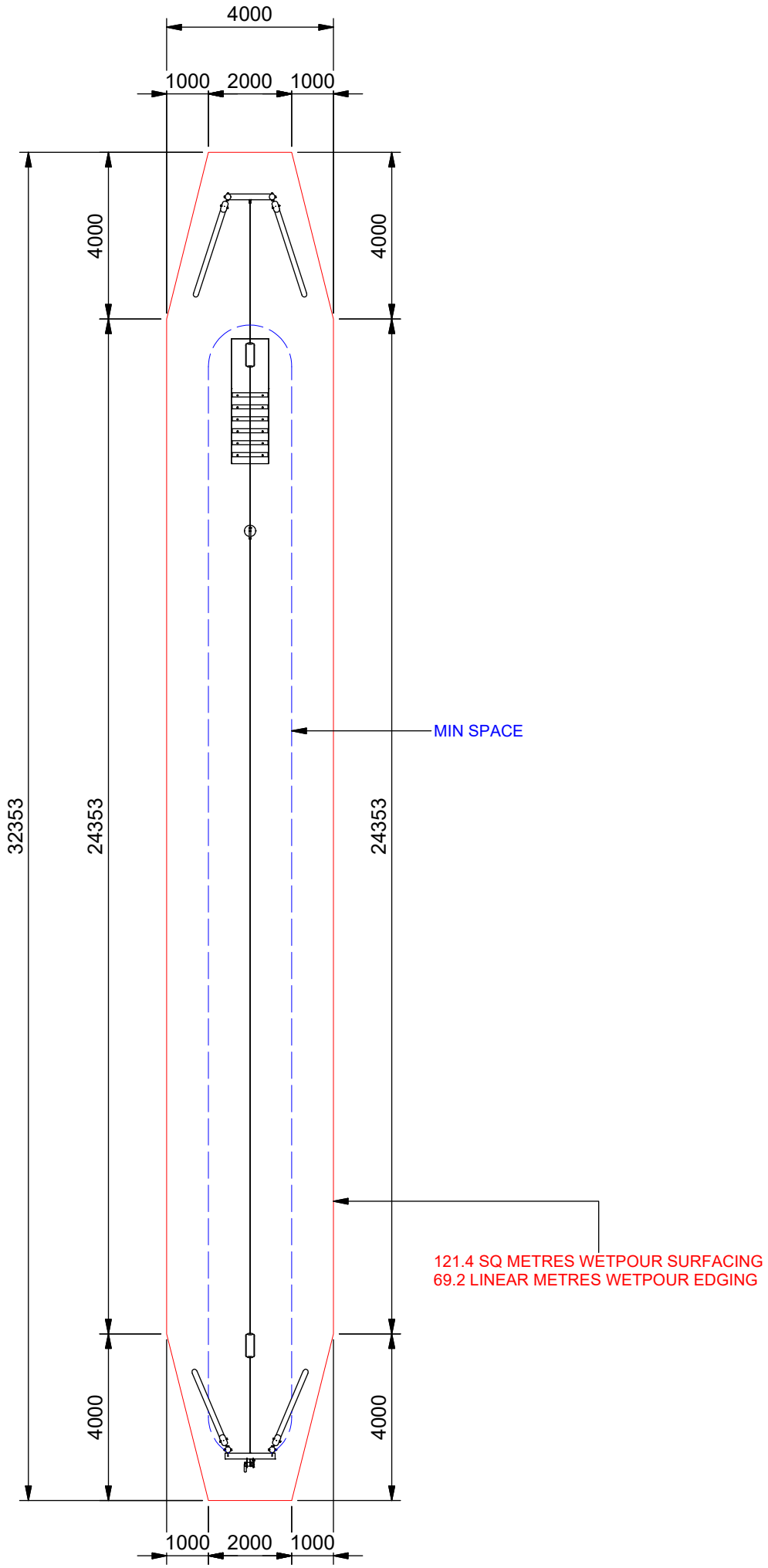
THIS PRODUCT CONFORMS WITH BS EN1176- 1 & 4 :2017

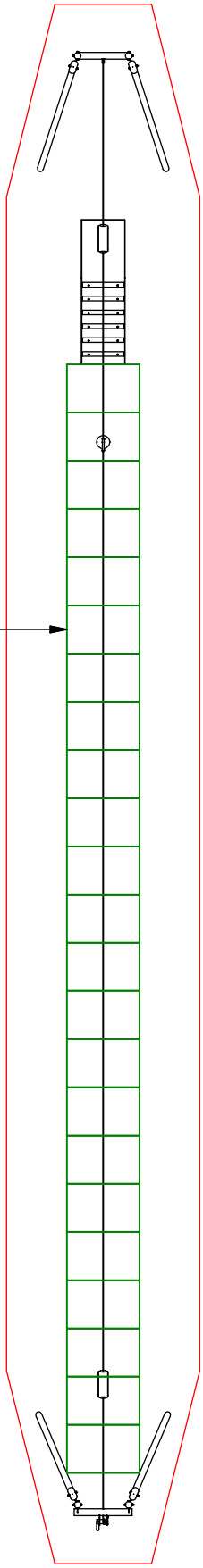
Wicksteed Leisure Ltd, Digby Street, Kettering, Northants NN16 8YJ Tel: 01536 517028 Fax: 01536 410633
www.wicksteed.co.uk E:sales@wicksteed.co.uk

Version: C
Date: 28/06/18


START STATION
2582
3423
2759
1160
1498
860
FOUNDATIONS
300 X 300 X 300 DEEP
18°
25115
30062
23°
FOUNDATIONS
750 X 850 X 800 DEEP
3090
2365
FOUNDATIONS
1800 X 750 X 800 DEEP
END STATION

SURFACING LAYOUT

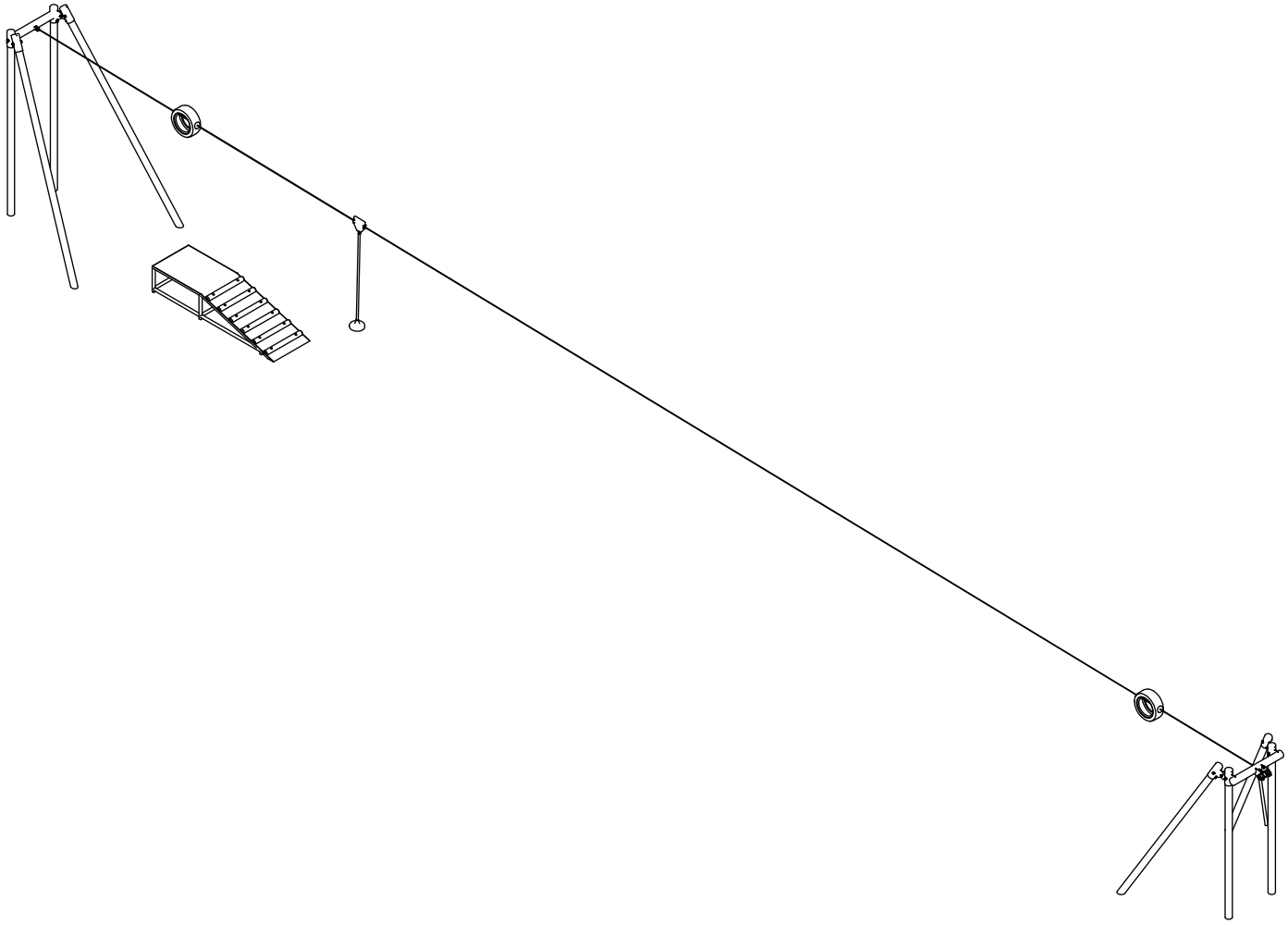



23 GRASS SAVER TILES
(1.5M X 1.0M)

Low Level

30m Cable Runway Installation/Assembly

CBW30



30m Cable Runway (Timber Posts)			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	FRTB00609	30M CABLE RUNWAY TIMBER SET
2	1	FRMT00532	END CROSSRAIL
3	4	FRMT00531	STRUT POST CAPS
4	1	FRMT00621	CROSSRAIL WITH WINCH SET
5	1	MOUNTING STATION	MOUNTING STATION ASSY
6	2	TYRE ASSEMBLY	TYRE END ASSEMBLY
7	1	No.1240	CABLE RUNWAY TROLLEY
8	1	No.1245 10	PENDULUM SEAT
9	1	No. 1247 2100	CABLE
10	8	M10X80CS	M10 X 80 COACH SCREW
11	8	M12X170HX	M12 x 170 Hex Head
12	4	M16X50HX	M16 X 50 Hex Head
13	16	M12WASH-LARGE	32MM 12G WASHER
14	8	M10SWASH	M10 PLAIN WASHER
15	8	M16SWASH	M16 32MM PLAIN WASHER
16	8	M12NYLOC	M12 NYLOC NUT
17	4	M16NYLOC	M16 NYLOC NUT
18	24	M10DONUT	M10 DONUT (YELLOW)
19	1	FRMT00988	TENSIONING BAR
20	1	NYLON PROTECTIVE SLEEVE	NYLON PROTECTIVE SLEEVE

30m Cable Runway (Steel Posts)			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	FRMT00629	30M CABLE RUNWAY METAL SET
2	1	FRMT00532	END CROSSRAIL
3	4	FRMT00531	STRUT POST CAPS
4	1	FRMT00621	CROSSRAIL WITH WINCH SET
5	1	MOUNTING STATION	MOUNTING STATION ASSY
6	2	TYRE ASSEMBLY	TYRE END ASSEMBLY
7	1	No.1240	CABLE RUNWAY TROLLEY
8	1	No.1245 10	PENDULUM SEAT
9	1	No. 1247 2100	CABLE
10	8	M10X40HX	M10 X 40 HEX HEAD MS ZP
11	8	M12X170HX	M12 x 170 Hex Head
12	4	M16X50HX	M16 X 50 Hex Head
13	16	M12WASH-LARGE	32MM 12G WASHER
14	8	M10SWASH	M10 PLAIN WASHER
15	8	M16SWASH	M16 32MM PLAIN WASHER
16	8	M12NYLOC	M12 NYLOC NUT
17	4	M16NYLOC	M16 NYLOC NUT
18	24	M10DONUT	M10 DONUT (YELLOW)
19	1	FRMT00988	TENSIONING BAR
20	1	NYLON PROTECTIVE SLEEVE	NYLON PROTECTIVE SLEEVE

WICKSTEED

Drawing Number: CBW30 - IN-AY	Code: CBW30	Issue:	G	H	J	K	L	M
Drawn By: AK	Date: 07/06/11	Issue Date:	06/12/16	20/01/17	29/03/17	17/08/17	21/09/17	28/06/18
Sheet: 1 OF 7	3rd Angle Projection	Sign:	AK	JG	JG	JG	AY	JG

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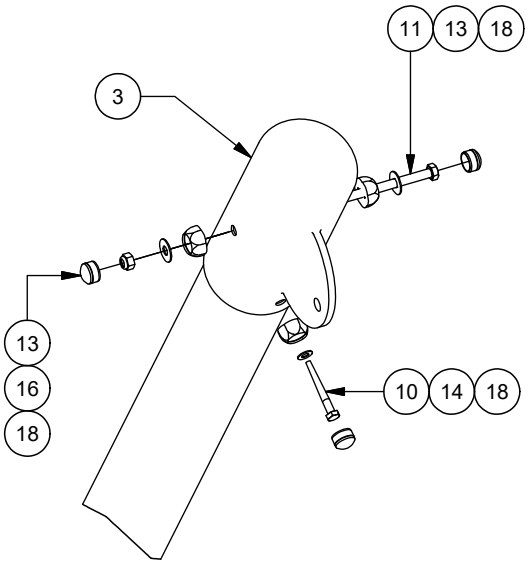
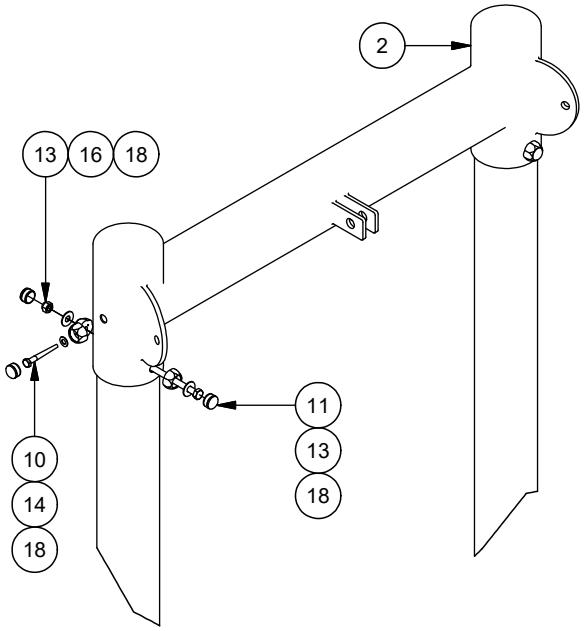
ASSEMBLY OF POSTS AND STEEL CAPS



Insert the 5.2m (Landing Station) & 5.6m (Take Off Station) posts from the timber set into the strut post caps (Item 3). Secure to the post using a M12 x 170 hex head as illustrated. Then drill a 6mm pilot hole through the lower hole and insert the M10 x 80 coach screw with washer & donut. **Refer to page 3 for post length locations.**

NOTE: If using steel posts, use the M10 x 40 hex head bolts instead of the M10 x 80 coach screws and locate in the pre threaded holes.

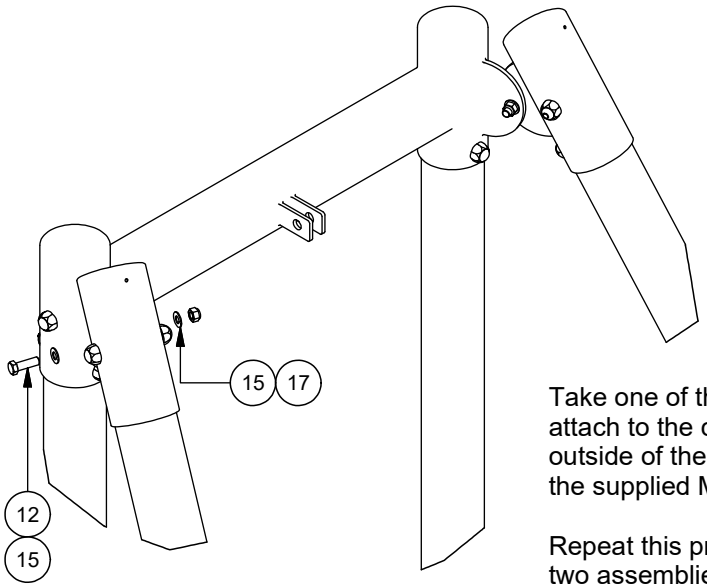
ASSEMBLY OF POSTS AND CROSSRAILS



Insert the 4.7m (Landing Station) & 4.95m (Take Off Station) posts from the timber set into the crossrails (Items 2 & 4). Drill a 6mm pilot hole through the two side holes and insert the M10 x 80 coach screw with washer & donut. Then, use a M12 x 170 hex head through the lower hole. **Refer to page 3 for post length locations**

NOTE: If using steel posts, replace the coach screw with the M10 x 40 hex head bolts and locate in the pre threaded holes.

ASSEMBLY OF RAILS TO STRUT POST CAPS

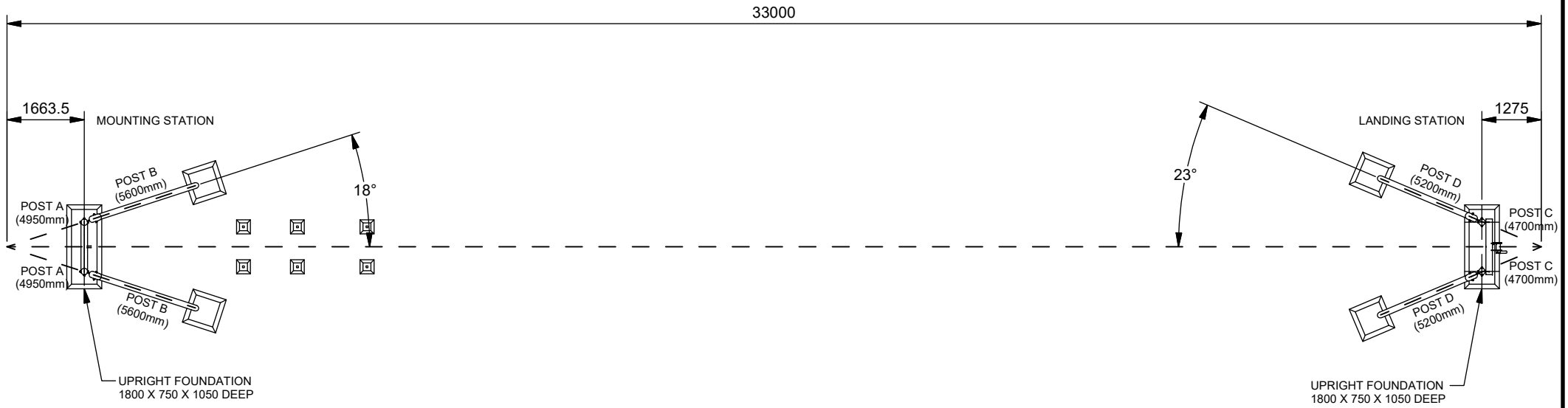


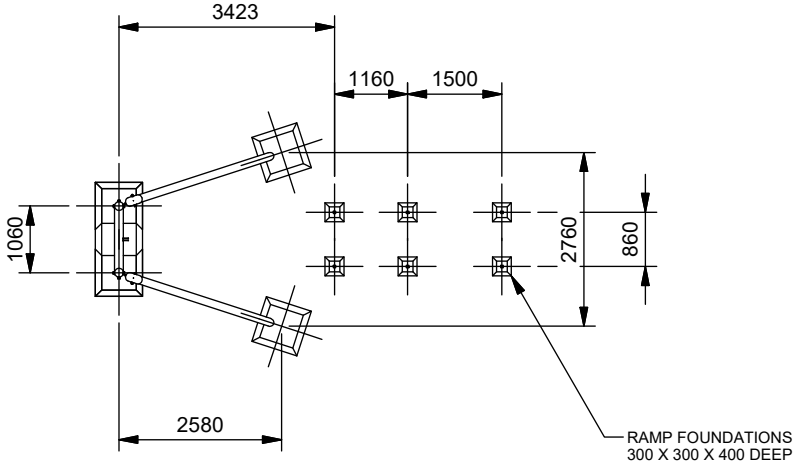
Take one of the posts with the strut post cap already in place and attach to the crossrail wing. The post cap should be fixed to the outside of the crossrail wing as illustrated above. Connect using the supplied M16 x 50 hex head bolt, washer & M16 nyloc nut.

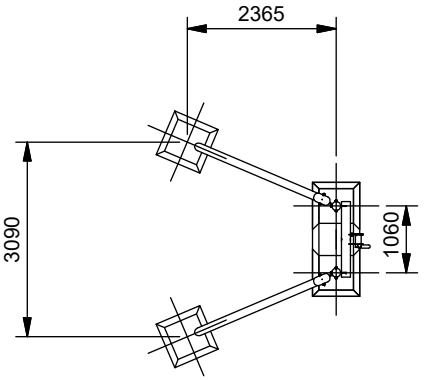
Repeat this procedure for all four posts so that you are left with two assemblies.

NOTE: The M16 x 50 hex head bolts should be tight but still allow the legs to pivot. The final tightening can be completed once installed.

SETTING OUT POINTS & FOUNDATION DETAIL



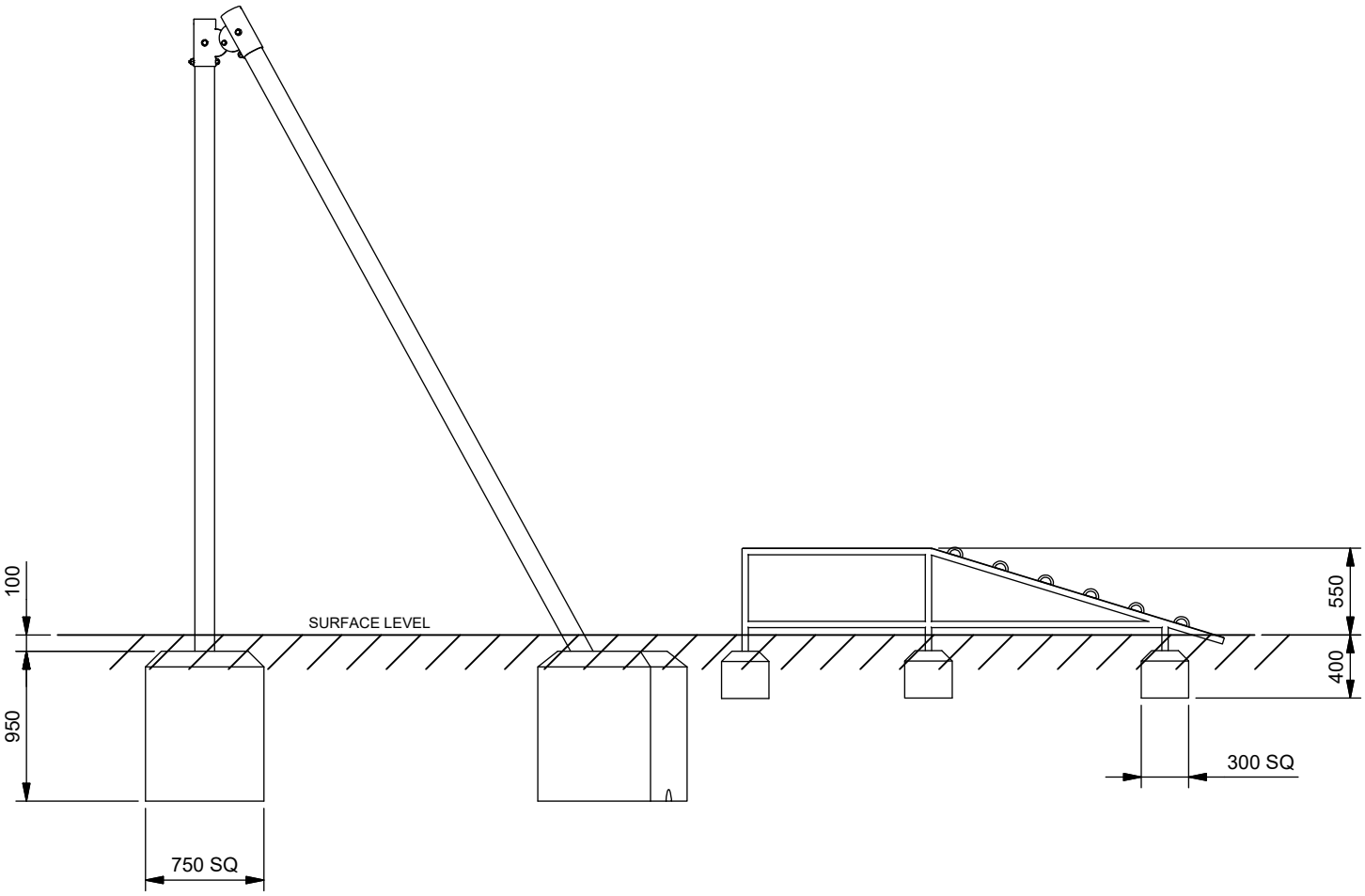




NOTE: If required the support legs for the end station may be shortened but the minimum depth in the ground must be no less than 1050mm (Ensure all shortened posts are treated or primed)

All foundations 750mm x 750mm x 1050mm deep unless otherwise specified

MOUNTING STATION FOUNDATION DETAIL



POST AND RAMP - INSTALLATION PROCEDURE

1. Excavate the main holes for the cable runway posts as illustrated on page 3.

2. Erect the post assemblies in the excavated holes on a solid base and use a temporary supports to maintain the correct position.

3. Check the dimensions and place the concrete around the posts, the top of the concrete should slope away from the posts slightly.

4. Excavate the holes for the ramp frame, also illustrated above and on page 3.

5. Position the ramp frame into the holes and adjust so that the top of the ramp is 500mm above the finished surface level.

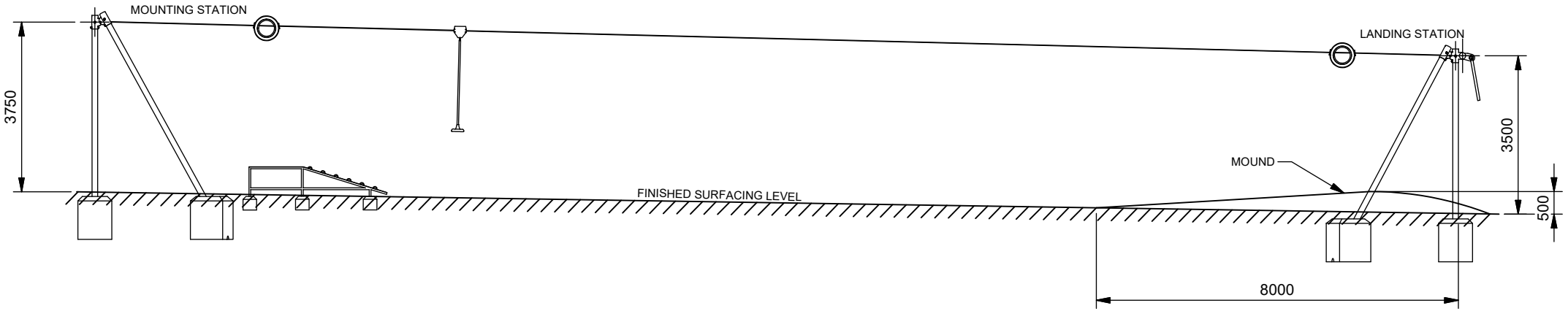
6. Check the dimensions and place concrete around the posts, the top surface of the concrete should slope away from the posts slightly.

7. Leave the concrete for a minimum of 24 hours before continuing with the installation of the wire.

30M CABLE RUNWAY STATION POSITIONS

For sloping ground conditions:
The mounting station should be installed at 250mm higher than the landing station. At the mounting station, from the finished surfacing level to crossbeam centre is 3750mm. At the landing station, from the finished surfacing level to crossbeam centre is 3500mm. The slope should be a maximum of 2.5% or 750mm over 30m.

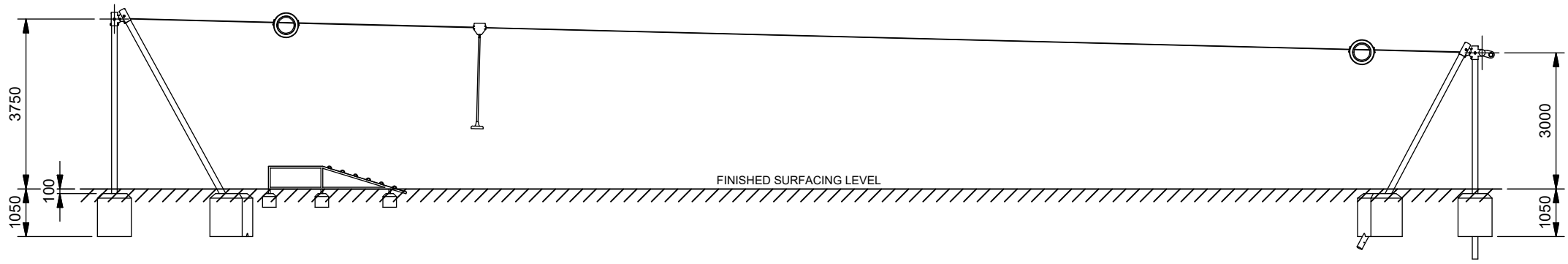
A mound will need to be constructed and the landing station to create a finished height of 3000mm from the cable to the top of the mound. If the fall exceeds 2.5% then the mound height will need to be increased.



NOTE:
The key-ring type wire to secure pin at top of suspension can easily be removed without tools.

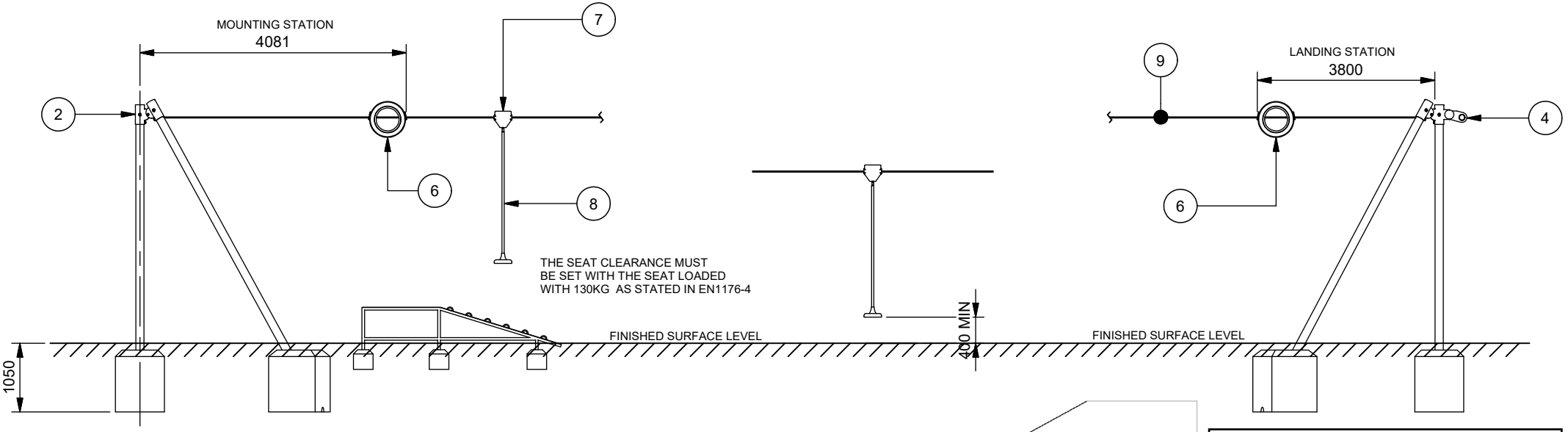
Leave it removable that you may install the chain. After installing the chain, just take a nipper and turn it by 180 deg. No one may open it without a tool.

For level ground conditions:
The landing station should be installed 750mm lower into the ground than the mounting station. The surfacing to the crossbeam centre should be 3750mm at the mounting station and 3000mm at the landing station



NOTE: If required the support legs for the end station may be shortened but the minimum depth in the ground must be no less than 1050mm (Ensure all shortened posts are treated or primed)

INSTALLATION OF WIRE CABLE & HARDWARE



ASSEMBLY OF TYRE BUFFER AND CABLE

Note: for the following operation, aluminum zip up scaffolding must be used

8. To fit the cable (9), thread the plain end through the End Crossrail (item 2). Fix the cable eye into the Fixed End Bracket using a M20 x 60 Bolt with Nyloc Nut.
   DO NOT OVER TIGHTEN THE BOLT AS THIS MAY CAUSE THE END FIXING TO PINCH THE CABLE.

9. Lay the cable (9) in the general position in which it will be installed ensuring no kinks or bends are formed.

10. Thread the Cable Runner (7) onto the cable.

11. Thread the second Tyre Buffer Assembly (6) onto the cable.

12. Before threading the cable through the winched crossrail, please ensure the nylon protective sleeve has been fitted into the crossrail and is firmly clamped (20).IMPORTANT Ensure winch cog is aligned with winch tooth plate before first use. M10 x 16 cap head screw must be fitted to ensure cog is fitted against side plate with no horizontal movement evident.

13. Thread the Cable (9) through the Nylon protective sleeve Crossrail with Winch (4) and onto the Ratchet Assembly, clamp in place using the grip fitted to the Ratchet Drum.

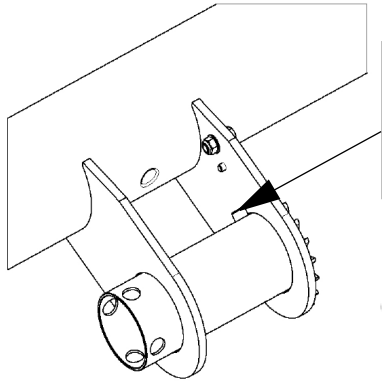
14. Slacken the locking screw on the ratchet and pawl and tighten the cable by rotating the cable drum with a 20mm diameter Tommy bar. Any smaller has a tendency to crease the take up drum when subjected to pressure. Ensure the cable is wound neatly around the ratchet drum.

15. Attach the Button Seat with the attached chain to the Cable Runner. Check the distance between the seat and cable is at least 2100mm.

16. When the dimensions shown on the side elevation on page 5 are achieved, lock the pawl in place using the locking screw.

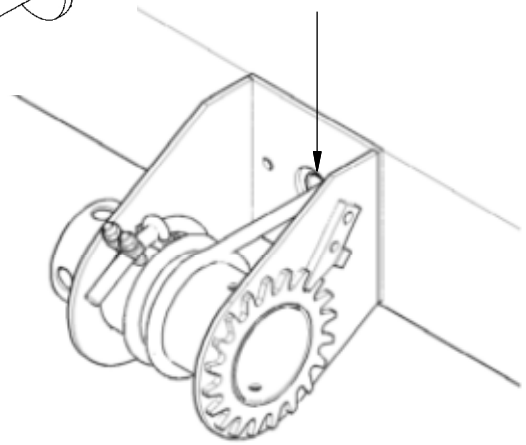
    NOTE: It will be necessary to check and adjust the cable tension during the first few days or weeks of use. This is quite normal and is due to the initial stretching of the cable. Once the cable has settled further adjustment will not normally be required, but the dimensions given in these instructions should be checked during routine maintenance and any adjustments made as required. The cable sag, therefore seat height, is tempertaure dependent. The maximum and minimum dimensions given apply at a reference temperature of 15°C.

(cont'd on next page)

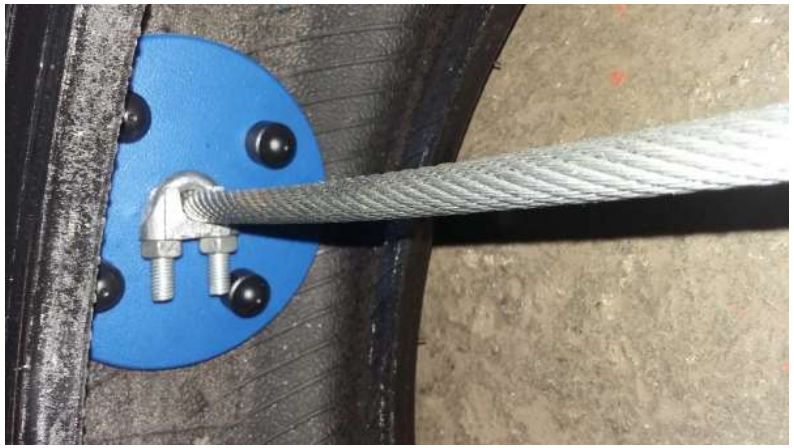


IMPORTANT
Ensure winch cog is aligned with winch tooth plate before first use. M10 x 16 cap head screw must be fitted to ensure cog is fitted against side plate with no horizontal movement evident

NYLON PROTECTIVE SLEEVE

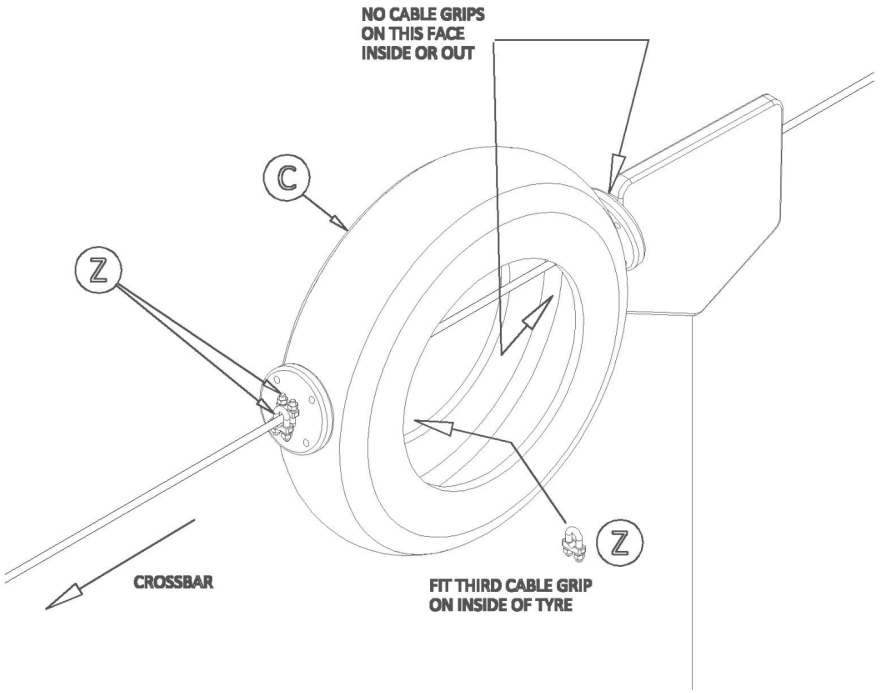


17. Secure the Tyre Buffer Assemblies (6) to the Cable using three cable grips (Z) for each tyre - two on the outside one on the inside of tyre wall nearest main support stations. Note: Cable grips are not to be fitted to tyre wall where cable runner impacts. Ensure that the stop dimensions illustrated on page 6 are achieved when the Tyre Buffer Assemblies are fixed in position as shown below



LEFT:
Detail of single cable grip on inside of tyre

RIGHT:
Detail of two cable grips on outside of tyre



18. Please ensure the tensioning bar is left with the client so they can use it in the future when the sag in the rope becomes too much.