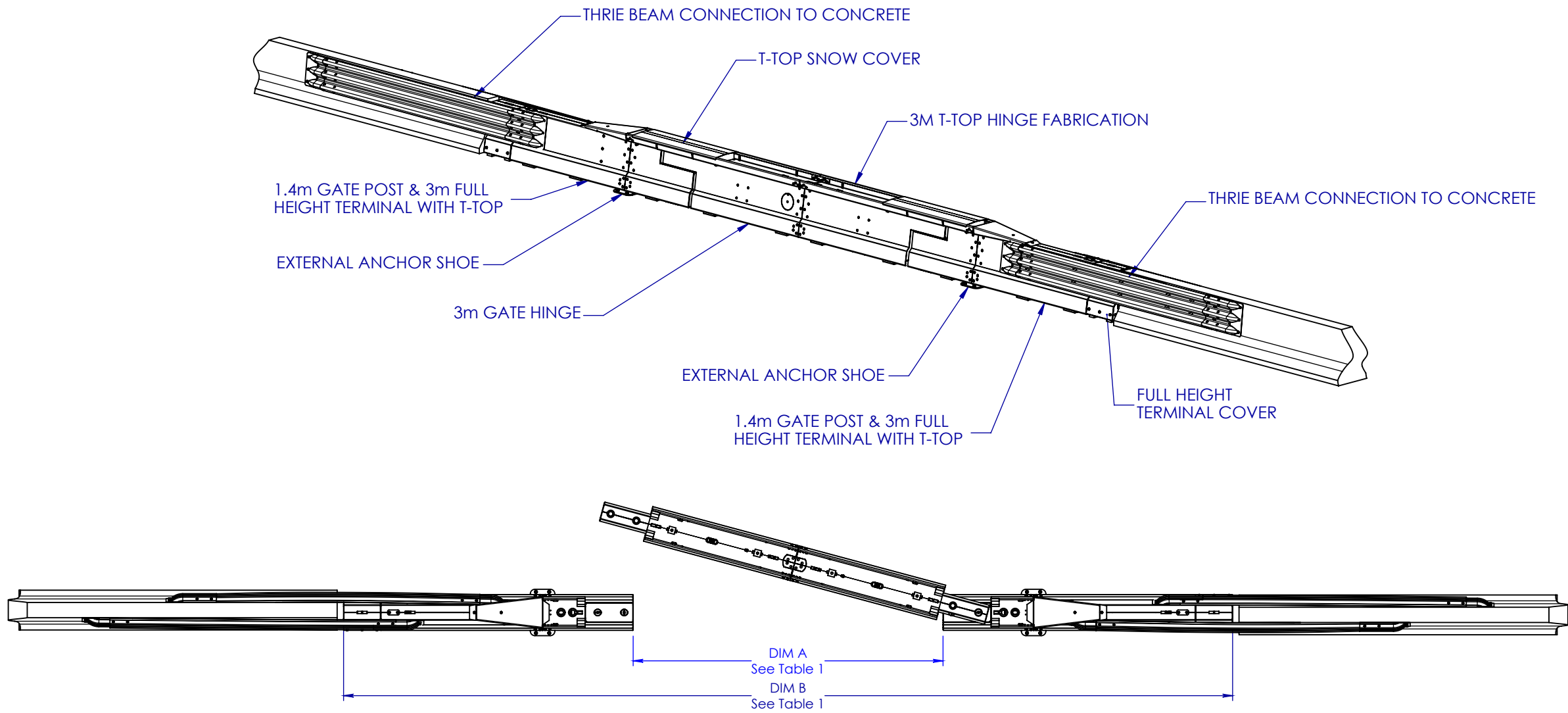
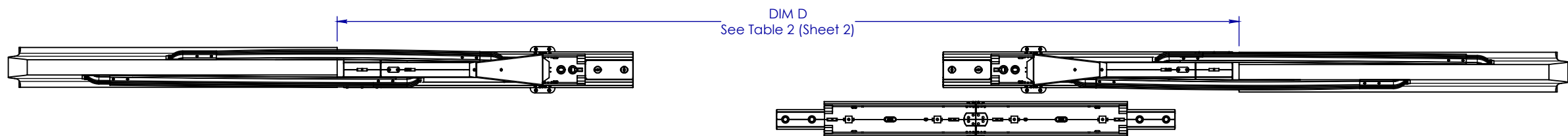




BG800 "GATE OPENING"



BG800 "GATE REMOVED"

TABLE 1

Gate Size	Gate Opening Width 'A'	Overall BG800 System Length 'B'
6m	4676 ±25mm	13406 ±25mm
12m	10676 ±25mm	19406 ±25mm
18m	16676 ±25mm	25406 ±25mm
24m	22676 ±25mm	31406 ±25mm
30m	28676 ±25mm	37406 ±25mm
36m	34676 ±25mm	43406 ±25mm

General Notes.

1. BG800 6m Gate/Wheeled sections can be added or removed to accommodate desired opening.

2. Area around the gate to be smooth paved, flat and free from debris to allow operation of the gate.

3. Recommended maximum crossfall 2.5% and not vary more than 2% from front to back for ease of gate operation.

4. All components galvanized to EN ISO 1461.

5. System to be anchored using standard BG800 anchoring system.

6. Thrie Beam items to be sourced locally. Contact Highway Care for details.

7. The area between the anchor pads and the swept arc of the gate movement should be smooth paved and flat to allow operation of gates.

Also consideration should be given to location of any road studs, drainage covers and access hatches.

8. The ground bearing resistance to be not less than 50kN /sq.m.

Ensure drawing is the correct issue and release before using.

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The information hereon is proprietary to Highway Care Ltd and shall not be disclosed, duplicated or used otherwise, without the express written approval of Highway Care Ltd.

Rev.	Details.	Dwn.	Date.	Ch'k'd	App'd	Title
A	Drawing Release	ST	10/12/18	LH	PD	BG800 Gate - NCHRP 350 TL-3 - Permanent - Concrete with Thrie Beam - General Details
						DWG No. BG-70-106
						SHEET 1 OF 5

ISO A3 Landscape	DO NOT SCALE	SCALE 1:75 ALL DIMENSIONS IN mm	
Revision	A	Status	Released

CONSTRUCTION DETAIL

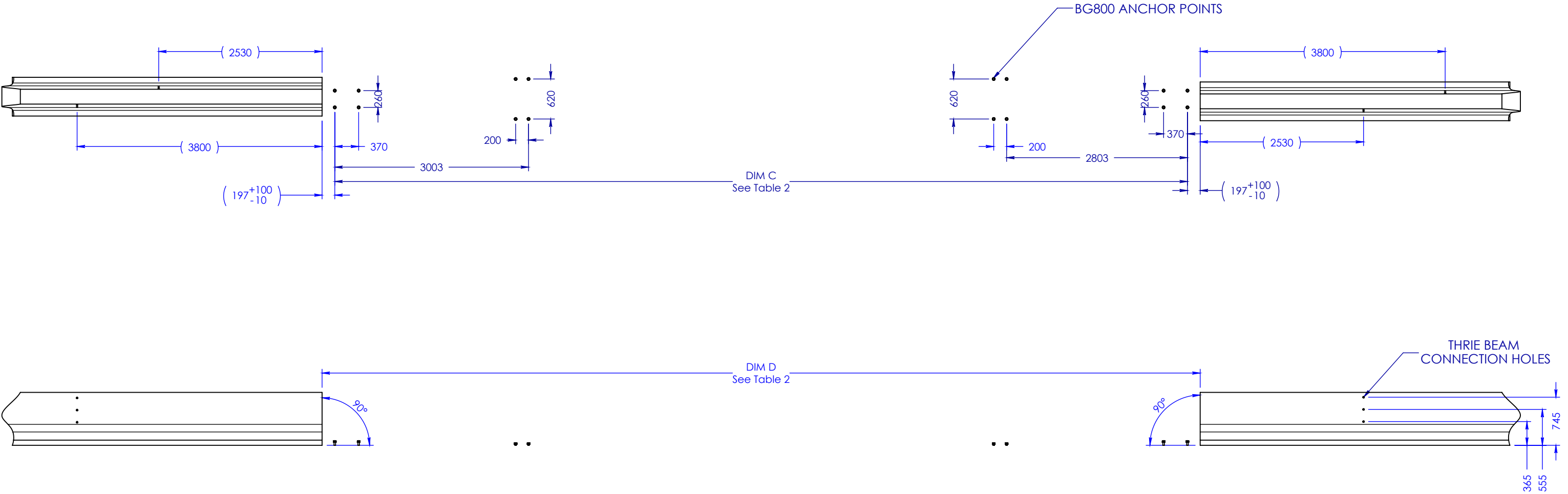
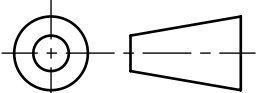


TABLE 2

Gate Size	Ancor Pitch 'C'	Wall Gap 'D'
6m	13216±25mm	13610 ⁺²⁰⁰ ₋₂₅ mm
12m	19216±25mm	19610 ⁺²⁰⁰ ₋₂₅ mm
18m	25216±25mm	25610 ⁺²⁰⁰ ₋₂₅ mm
24m	31216±25mm	31610 ⁺²⁰⁰ ₋₂₅ mm
30m	37216±25mm	37610 ⁺²⁰⁰ ₋₂₅ mm
36m	43216±25mm	43610 ⁺²⁰⁰ ₋₂₅ mm



Ensure drawing is the correct issue and release before using.



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BG-70-106

SHEET 2 OF 5

ISO A3
Landscape

DO NOT
SCALE

SCALE 1:60
ALL DIMENSIONS IN mm

Revision

A

Status

Released

FOUNDATION OPTIONS

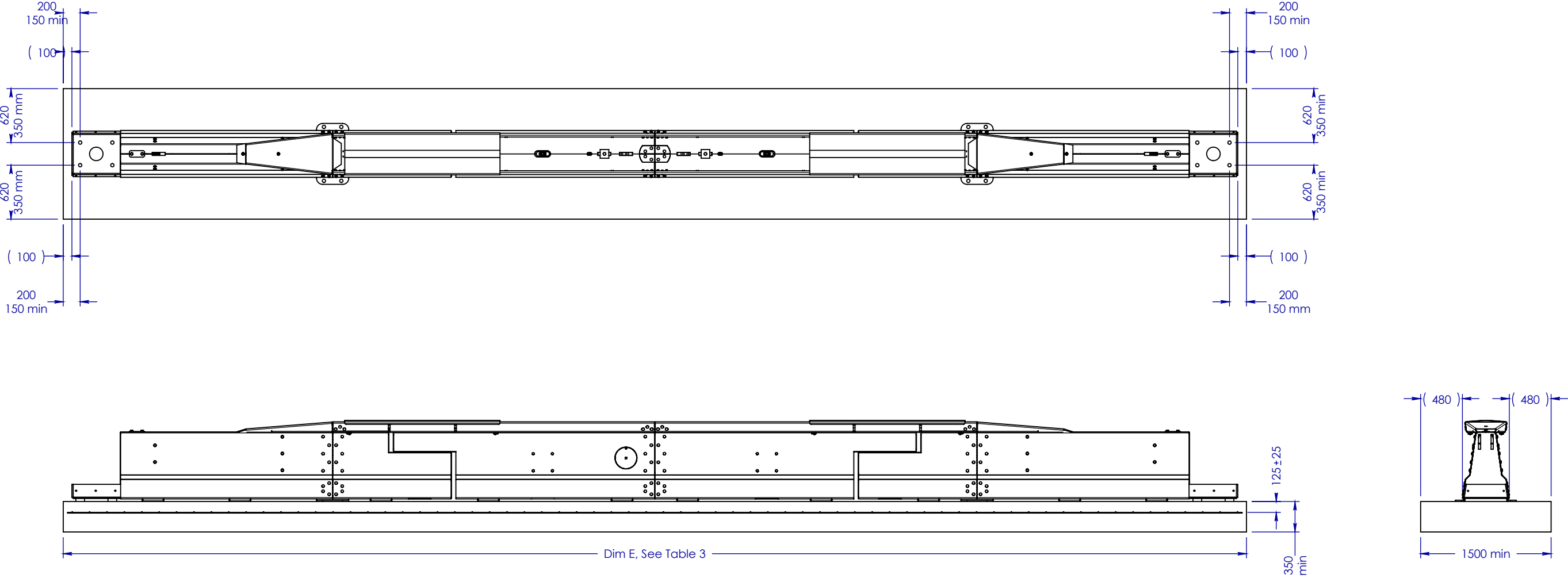


TABLE 3

Gate Size	Foundation Pad Length 'E'
6m	13606mm
12m	19606mm
18m	25606mm
24m	31606mm
30m	37606mm
36m	43606mm

Foundation Pad Notes:

1) One layer of steel Mesh A252 (BS 4483) or equivalent. Minimum Lap - 400mm. Minimum Cover 50mm unless otherwise stated.

2) Mesh should be positioned so as not conflict with anchor locations.

3) Minimum concrete grade strength at time of fixing C30. Poker Vibration, Surface Finish - U2.

4) Slab Surface to be level with surrounding surface levels.

5) Maximum cross slope 2.5%, and not vary more than 2% front to back.

6) All edges must be backfilled with aggregate subbase material (maximum size 20mm) and fully compacted.

7) Slab surface to be level with surrounding surface levels.

8) Minimum depth of slab - 350mm.

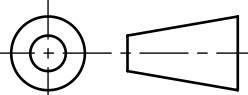
9) The area between the anchor pads and the swept arc of the gate movement should be smooth paved and flat to allow operation of gates.

Also consideration should be given to location of any road studs, drainage covers and access hatches.

10) The ground bearing resistance to be not less then 50kN /sq.m.



Ensure drawing is the correct issue and release before using.



DWG No. BG-70-106

SHEET 3 OF 5

ISO A3 Landscape

DO NOT SCALE

SCALE 1:50
ALL DIMENSIONS IN mm

Revision

A

Status

Released

FOUNDATION OPTIONS

PAVEMENT MATERIAL SPECIFICATIONS

PORTLAND CEMENT CONCRETE (PCC)



Stone affregate concrete mix, 4000 PSI [28 MPa] minimum compressive strength (Sampling per ASTM C31-84 or ASTM C42-84A, testing per ASTM C39-84) or similar.

ASPHALTIC CONCRETE (AC)



AR-4000 A.C. (Per ASTM D3381 '83) 0.75" [19mm] maximum, medium (type A or B) aggregate or similar.

Sieve Size	% Passing
1" [25mm]	100
3/4" [19mm]	95-100
3/8" [9.5mm]	65-80
No. 4	49-54
No. 8	36-40
No. 30	18-21
No. 200	3-8

Compacted Subbase (DGA)



6IN. [150mm] minimum depth, 95% compactation, class 2 aggregate or similar.

Sieve Size	% Passing
3" [75mm]	100
2 1/2" [64mm]	90-100
No. 4	40-90
No. 200	0-25

PAVEMENT CONSTRUCTION SPECIFICATIONS

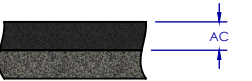
P.C. Concrete.



8 IN. [200mm] reinforced or 10 IN. [250mm] nonreinforced

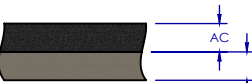
Foundation: Minimum 8 in. [200mm] reinforced PCC pad or 10 in [250mm] nonreinforced PCC pad.

Asphalt over Subbase



Foundation: AC over compacted DGA subbase

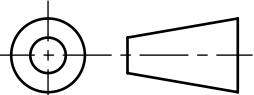
Asphalt over P.C. concrete



Foundation: AC over PCC



Ensure drawing is the correct issue and release before using.



DWG No.
BG-70-106

SHEET 4 OF 5

ISO A3
Landscape

DO NOT
SCALE

SCALE 1:40
ALL DIMENSIONS IN mm

Revision

A

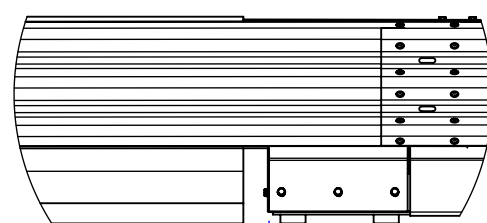
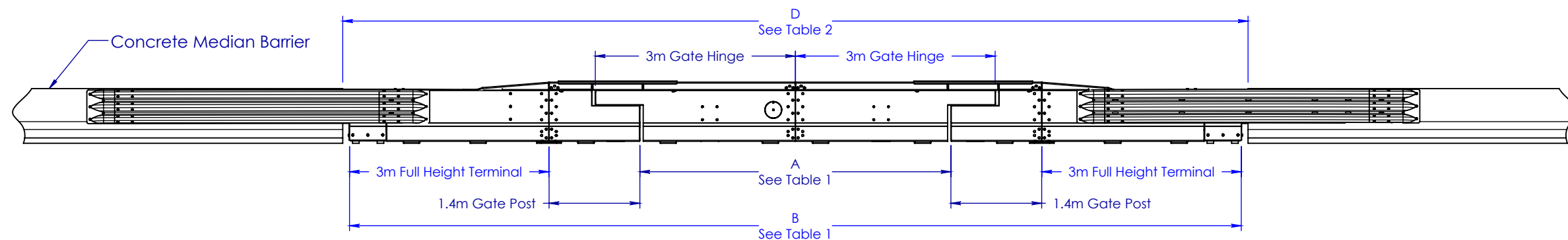
Status

Released

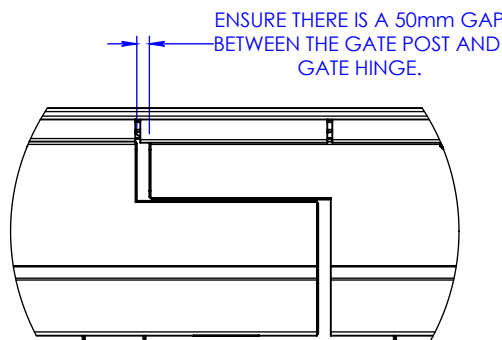
POSITION BG800 IN THE MOST SUITABLE POSITION TO ELIMINATE ANY SNAG POTENTIAL

POSITION BG800 IN THE MOST SUITABLE POSITION TO ELIMINATE ANY SNAG POTENTIAL

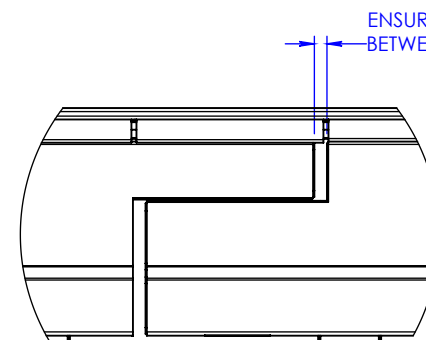
Add Additional 6m sections as required.



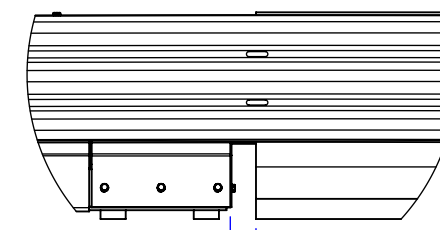
DETAIL A
SCALE 1 : 30



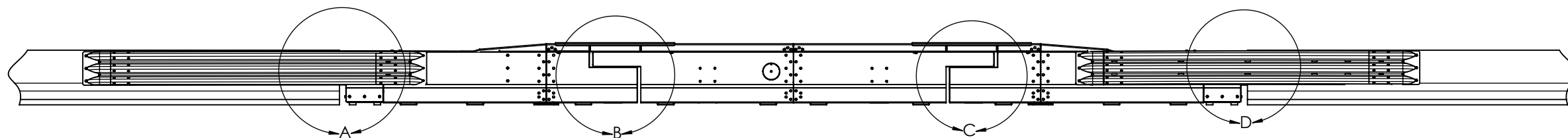
DETAIL B
SCALE 1 : 30



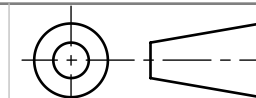
DETAIL C
SCALE 1 : 30



DETAIL D
SCALE 1 : 30



Ensure drawing is the correct issue and release before using.



DWG No.
BG-70-106

SHEET 5 OF 5

ISO A3
Landscape

DO NOT
SCALE

SCALE 1:75
ALL DIMENSIONS IN mm

Revision

A

Status

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