

PRODUCT CLASSIFICATION:
B-FOUNDATION/PASSIVE/BOLLARD
 PERFORMANCE RATING:
IWA14-1:2013 BOLLARD
V/7200[N2A]/48/30:1.2

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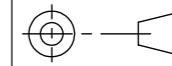
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NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
 2. DO NOT SCALE DRAWING.
 3. ALL CONCRETE TO BE IN ACCORDANCE WITH BS 8500
 4. MIXES TO BE REINFORCED CONCRETE - C30/C40
 5. ALL MATERIAL & WORKMANSHIP TO BE IN ACCORDANCE WITH RECOMMENDATIONS OF BS-EN 1992 EUROCODE 2
- Foundation sizes given are for customer guidance and suited to sub-soils with good load bearing capabilities. Where adverse site conditions are met professional advice to be sought.



TOLERANCES: LINEAR 0 : +/-1
 0.0 : +/-0.1
 0.00 : +/-0.01
 ANGULAR +/-0.5°

THIRD ANGLE PROJECTION

Rev	Init	Revision Notes	ER No.	Date
A	MB	FIRST ISSUE	19-0700	26/05/20
B	-	-	-	-
C	-	-	-	-
D	-	-	-	-
E	-	-	-	-

PRODUCT TYPE:

BRIDGE PROTECTION

IMPACT RATING:

75/30 30°

SLEEVE DETAIL:

WESTMINSTER FERROCAST

PRODUCT RANGE:

RHINO GUARD

PROJECT NAME:

ULTRA SHALLOW 50

PROJECT NUMBER

SHALLOW FRAME

SHEET TITLE:

HVM ULTRA SHALLOW 50 - FOOTWAY - WESTMINSTER

DRAWING NUMBER:

HVM-72-30-FW

DRAWN BY
MB

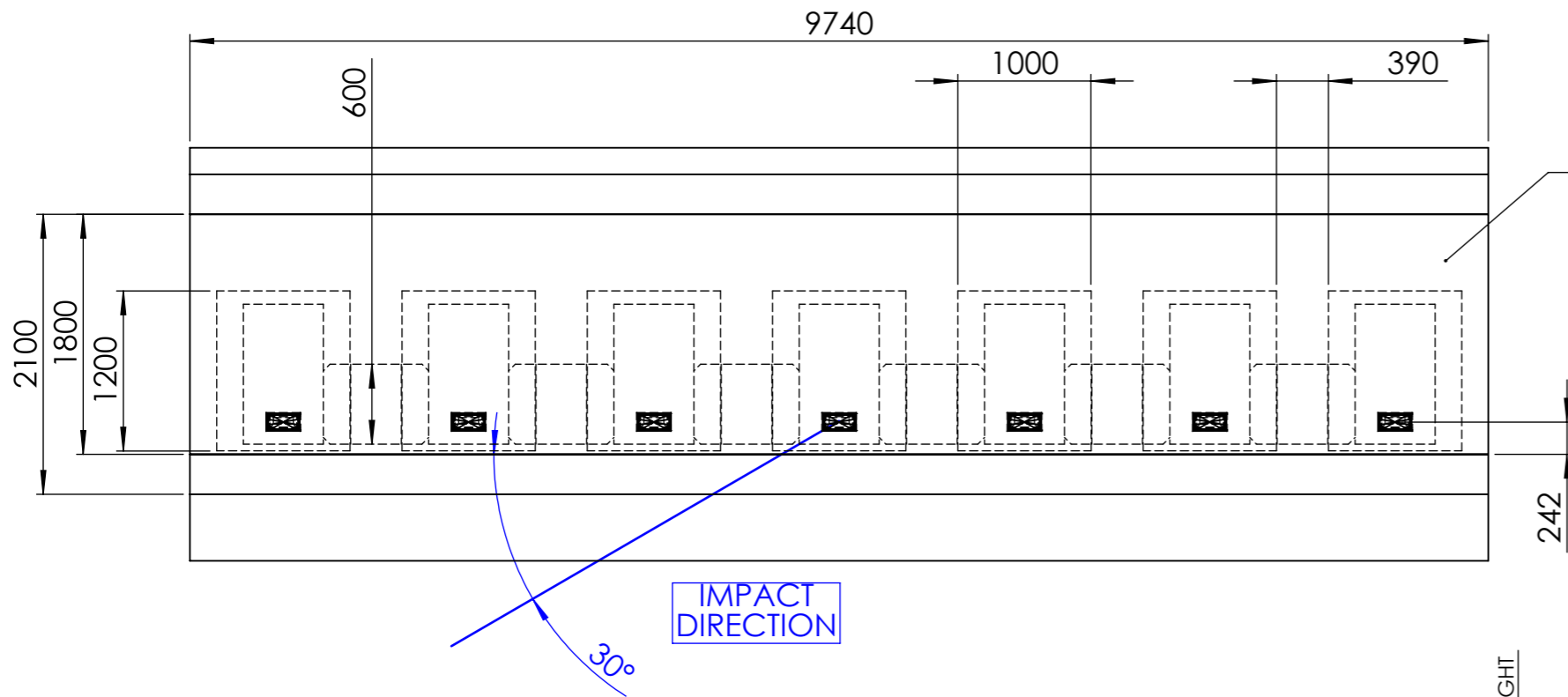
DATE
26/05/20

SCALE
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REVISION

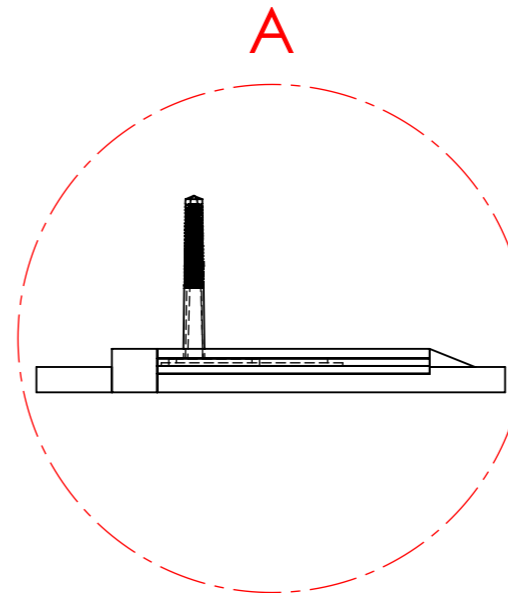
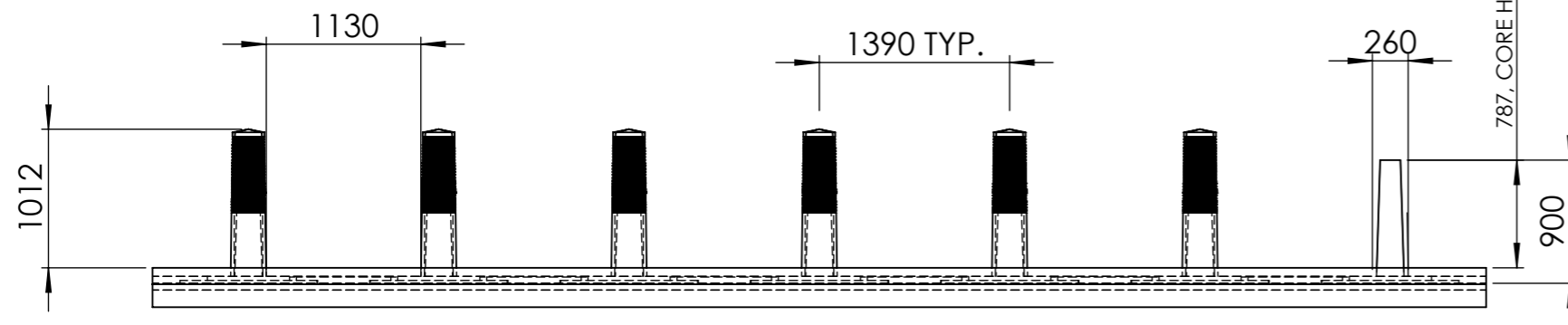
[A]

SHEET 1 of 1



FINISHED GROUND.
 E.G. 900 x 600
 PAVING FLAGS

NOTE: WESTMINSTER FERROCAST SLEEVE SHOWN. OTHER SLEEVES ARE AVAILABLE.



**DETAIL A
 SCALE 1 : 25**

PRODUCT WEIGHTS:

- HVM FRAME - 390KG
- CONNECTION BRACKET - 95KG
- SLEEVE - 18KG

INSTALLATION INSTRUCTIONS:

EXCAVATE SUITABLE FOUNDATION FOR BOLLARDS
 CONNECT LIFTING EQUIPMENT TO EACH UNIT & LAY IN POSITION
 FASTEN UNITS TOGETHER WITH BRACKETS, NUTS AND WASHERS.
 CAST CONCRETE AROUND AND ON TOP OF PRODUCT TO 50mm LEVEL. C30/C40 SLUMP MINIMUM
 ALLOW CONCRETE TO CURE.
 KEY SURFACE OF BOLLARD CORE, APPLY BONDING AGENT. SLIDE SLEEVE OVER CORE.
 FINISH SURFACE LEVEL IN ACCORDANCE WITH SITE REQUIREMENTS, 63mm.
 NOTE: PAVING WILL NEED TO BE CUT AROUND SLEEVE.
 GROUT AROUND BASE OF SLEEVE TO SECURE.

