



Customer Experience Design and Management guidelines

Wayfinding | Sign structure detailing

Task 3 | WAYFINDING

Tender No: **KMRL/PRJ/STN SIGN/235/2015/TEN 01-16**

Version | 1

Date | 08.02.2016

This document is commissioned by Kochi Metro Rail Limited, Kochi, and designed by Tata Elxsi. The document can be used for reference purposes but cannot be used for circulation.

This document gives the design details for the form, dimensions and material specifications for all the sign types designed for signage at Kochi metro.

Signage vendors would be required to work out the shop drawings using these drawings for final production basis their fabrication facilities/techniques keeping the design intent and performance specifications intact.

This document contains 41 pages including Front and Back cover

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| PR.NO | PRODUCT NAME AND DESCRIPTION | SIGN TYPE | DRAWING NO. |
|----------|--|------------------------------------|------------------------|
| 1 | Direction signs | | |
| 1.1.1 | Suspended sign <i>Illuminated, 2 sided</i> | Interior direction signs | TEKM-T3M3-301.1.1P-1/2 |
| 1.1.2 | Suspended sign <i>Illuminated, 2 sided, double height</i> | Interior direction signs | TEKM-T3M3-301.1.2P-1/2 |
| 1.1.3 | Face mounted sign <i>Illuminated</i> | Interior direction signs | TEKM-T3M3-301.1.3P-1/2 |
| 1.1.4 | Face mounted sign <i>Illuminated, double height</i> | Interior direction signs | TEKM-T3M3-301.1.4P-1/2 |
| 1.1.5 | Projected sign <i>Non-Illuminated, 2 sided</i> | Exterior direction signs | TEKM-T3M3-301.1.5P-1 |
| 1.1.6 | Projected sign (only pictogram) <i>Illuminated, 2 sided</i> | Interior direction signs | TEKM-T3M3-301.1.6P-1 |
| 1.1.7 | Post mounted sign <i>Illuminated, 2 sided</i> | Interior/exterior direction sign | TEKM-T3M3-301.1.7P-1 |
| 1.1.8 | Post mounted sign <i>Non-Illuminated, 2- sided</i> | Direction vicinity sign | TEKM-T3M3-301.1.8P-1/2 |
| 1.1.9 | Post mounted sign <i>Non-Illuminated, 2 sided</i> | Exterior direction sign | TEKM-T3M3-301.1.9P-1 |
| 2 | Location signs | | |
| 1.1.1 | Suspended sign <i>Illuminated, 2 sided</i> | Entry/exit sign | TEKM-T3M3-301.1.1P-1/2 |
| 2.1.1 | Suspended sign <i>Non-Illuminated, 2 sided</i> | TVM /platform number sign | TEKM-T3M3-302.1.1P-1 |
| | | | |
| 2.2 | Face mounted sign <i>Illuminated sign</i> | Station name sign | TEKM-T3M3-302.2 P-1 |
| 2.3 | Face mounted sign <i>illuminated sign</i> | Overhead station name | TEKM-T3M3-302.3 P-1 |
| 2.1.3 | Face mounted sign <i>Non-illuminated sign</i> | Lift to concourse sign | TEKM-T3M3-302.1.3P-1 |
| 2.1.4 | Projected sign (only pictogram) <i>Non-illuminated sign</i> | Drinking water sign | TEKM-T3M3-302.1.4P-1 |
| 2.1.5 | Post mounted sign (only pictogram) <i>Non-illuminated, 2-sided, double height sign</i> | Drop -off point +handi-capped sign | TEKM-T3M3-302.1.5P-1/2 |
| 2.1.6 | Post mounted sign (only pictogram) <i>Non-illuminated, 2 sided sign</i> | Drop -off point sign | TEKM-T3M3-302.1.6P-1/2 |
| 2.4 | Totem sign <i>Illuminated, 2 sided sign</i> | Station Identification sign | TEKM-T3M3-302.4 P-1 |
| 2.1.7 | Post mounted sign (only text) <i>Non-illuminated, 1 sided sign</i> | Station name on platform sign | TEKM-T3M3-302.1.7P-1/2 |
| 2.1.8 | Post mounted sign (pictogram + text) <i>Non-illuminated, 2 sided sign</i> | Feeder bus stop sign | TEKM-T3M3-302.1.8P-1/2 |
| 2.5 | Face mounted plate signs <i>Non-illuminated</i> | Door signs | TEKM-T3M3-302.5 P-1 |
| | | | |

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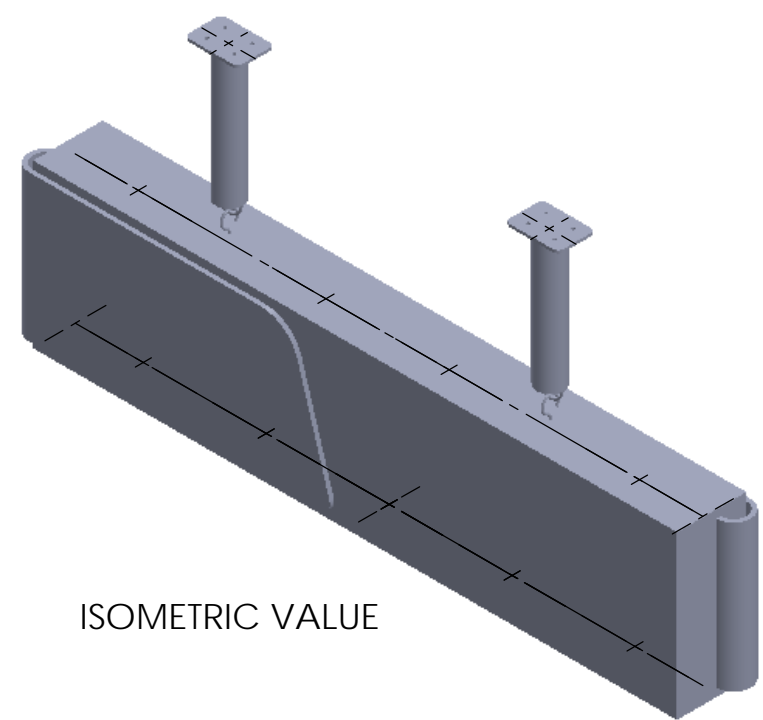
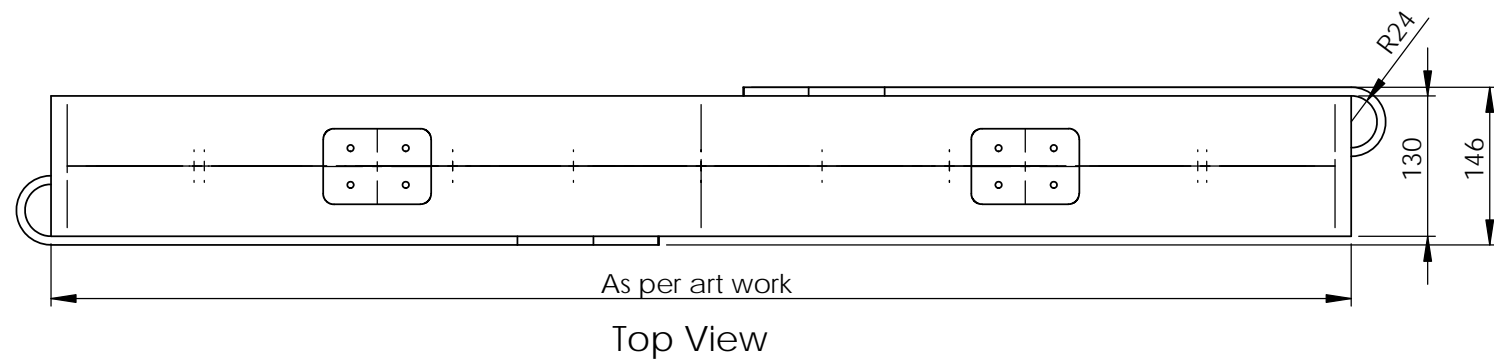
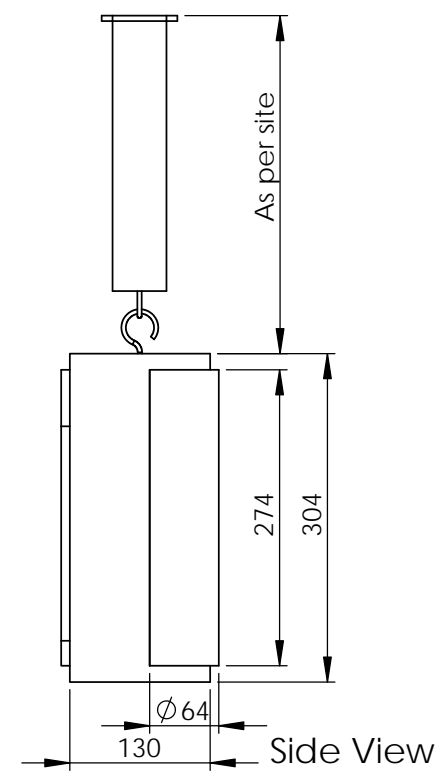
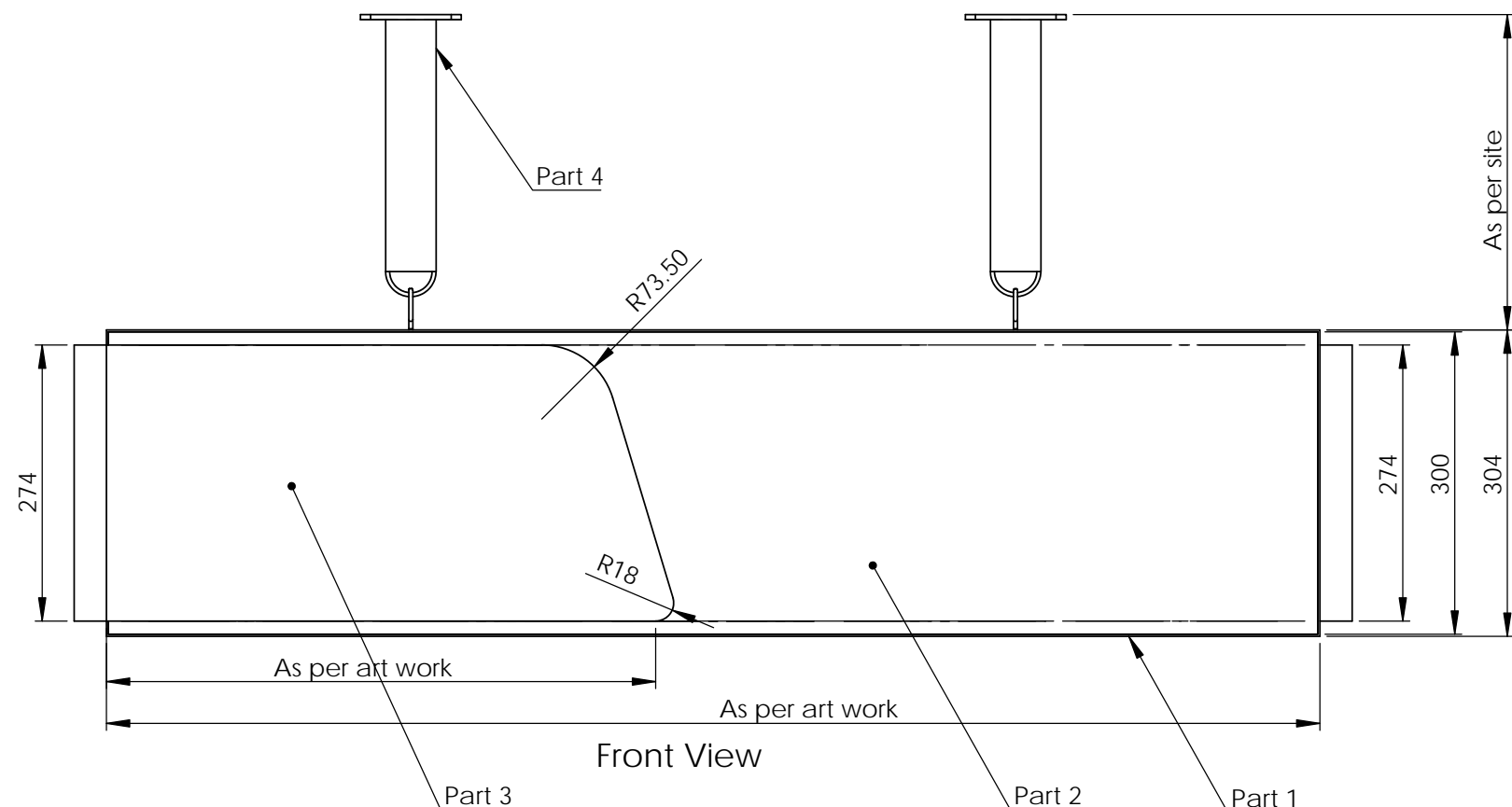
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Signage vendors would be required to work out the shop drawings using these drawings for final production basis their fabrication facilities/techniques keeping the design intent and performance specifications intact.

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| PR.NO | PRODUCT NAME AND DESCRIPTION | SIGN TYPE | DRAWING NO. |
|-------|---|----------------------------------|-------------------------|
| 3 | Information signs | | |
| 3.1.1 | Face mounted sign <i>Non-illuminated sign</i> | Area map | TEKM-T3M3-303.1.1 P-1 |
| 3.2 | Face mounted frame sign <i>Non-illuminated sign</i> | Safety message at security check | TEKM-T3M3-303.2 P-1 |
| 3.3 | Face mounted sign <i>Non-illuminated ,double height sign</i> | Platform information sign | TEKM-T3M3-303.3 P-1 |
| 3.4 | Post mounted sign <i>Illuminated,1-sided with digital display</i> | PIDS | TEKM-T3M3-303.4 P-1/2 |
| 3.1.2 | Post mounted sign <i>Non-illuminated,1 sided</i> | Area map/system map | TEKM-T3M3-303.1.2 P-1/2 |
| 3.1.1 | Face mounted sign <i>Non- Illuminated</i> | Double line map | TEKM-T3M3-303.1.1 P-1/2 |
| 3.1.3 | Post mounted sign <i>1 sided , Non- Illuminated</i> | Double line map | TEKM-T3M3-303.1.3 P-1/2 |
| 3.1.4 | Post mounted sign <i>2sided, Non- Illuminated</i> | Double line map | TEKM-T3M3-303.1.4 P-1/2 |
| 3.1.5 | Post mounted sign <i>1 sided , Non- Illuminated</i> | Area map + system map | TEKM-T3M3-303.1.5 P-1/2 |
| 3.1.1 | Face mounted sign <i>Non- Illuminated</i> | single line map | TEKM-T3M3-303.1.1 P-1/2 |
| 3.1.3 | Post mounted sign <i>1 sided , Non- Illuminated</i> | single line map | TEKM-T3M3-303.1.3 P-1/2 |
| | | | |
| 4 | Statutory sign | | |
| 4.1 | Suspended sign <i>Illuminated, 2 sided</i> | Way to ETS at platform | From vendor |
| 4.2 | Face mounted sign <i>Illuminated</i> | Way to emergency exit | From vendor |
| 4.3 | Projected sign <i>Illuminated,2 sided</i> | Way to emergency exit | From vendor |
| 2.5 | Face mounted plate sign <i>Non-Illuminated</i> | Restricted entry | TEKM-T3M3-302.5 P-1 |
| 3.2 | Face mounted frame sign <i>Non-Illuminated</i> | Entry strictly prohibited | TEKM-T3M3-303.2 P-1 |
| | | | |
| 7 | Print signs | | |
| 7.1 | Print on opaque vinyl <i>Non-Illuminated, 1 sided</i> | Restricted entry sign | NA |
| 7.2 | Print on frost vinyl <i>Non-Illuminated, 1 sided</i> | Ticket information sign | NA |
| 7.3 | floor marking <i>Non-Illuminated, 1 sided</i> | stand behind yellow line sign | NA |



- MATERIAL NOTES :
- Part 1:** - Sign Box .
- 15mm thick 130mmwide aluminium extrusion.
- Powder coated in RAL classic 7016 .
- Part 2:** - Sign Panel.
- 8mm thick clear acrylic over which plotter cut vinyl is pasted .
- Part 3:** - Sign Panel.
- 8mm thick clear acrylic turned to radius over which plotter cut vinyl is pasted.
- Part 4 :** - 50mm dia pipe as light suspender upto a height of 4m

- GENERAL NOTES:
- ALL DIMENSIONS ARE IN MM.
 - ALL DIMENSIONS ARE TO BE READ AND NOT MEASURED.
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| REV NO | DATE | DESCRIPTION | SIGN |

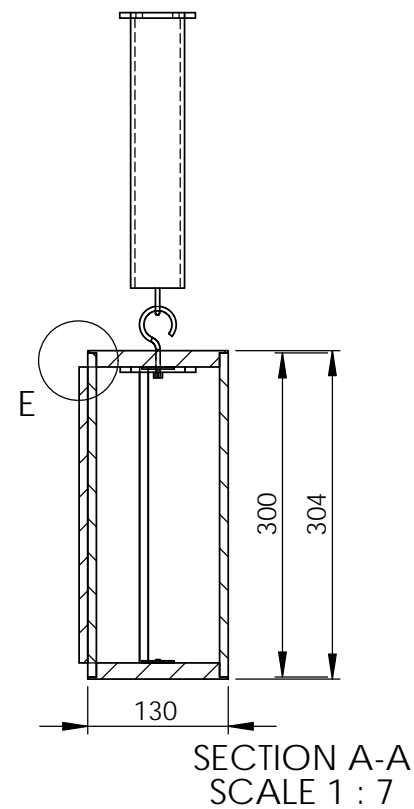
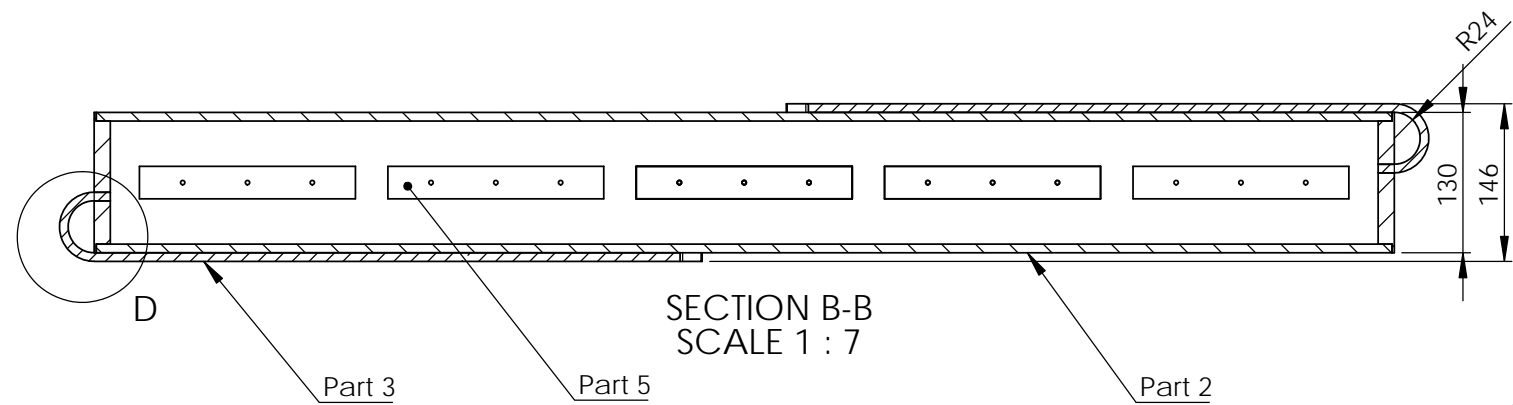
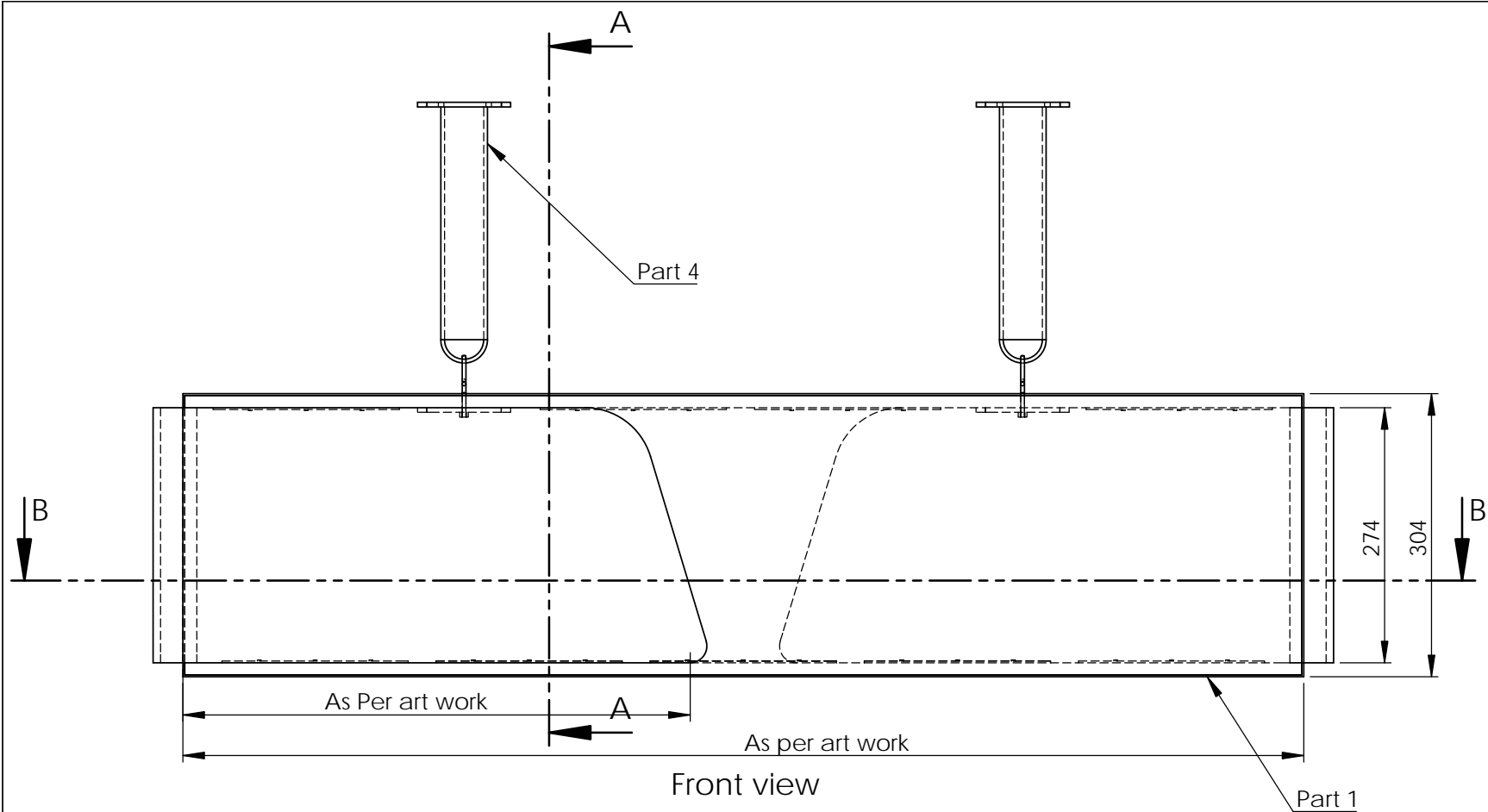
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|--------------------|--------------------------------------|----------------------------------|--|---|
| PPROVAL BY KMRL | KOCHI METRO RAIL PROJECT | | |  SIGNAGE&GRAPHICS |
| | KOCHI METRO RAIL LIMITED | | | |
| | SIGN NAME: Direction Sign, Suspended | | | |
| DY CE | STATUS: TENDER (TEKM /TENDER | | | |
| | SCALE: STF | DRG.NO: TEKM-T3M3-301.1.1P-01 | | |
| | DATE: 30.12.15 | DRAWN BY: Dinesh | | |
| CE (D&C) | REV.NO. 1 | CHECKED BY: Puneet | | |



15mm Aluminium
extrusion frame

8mm acrylic pasted with
adhesive and flushed
to aluminium frame

8mm acrylic pasted
to 4mm acrylic

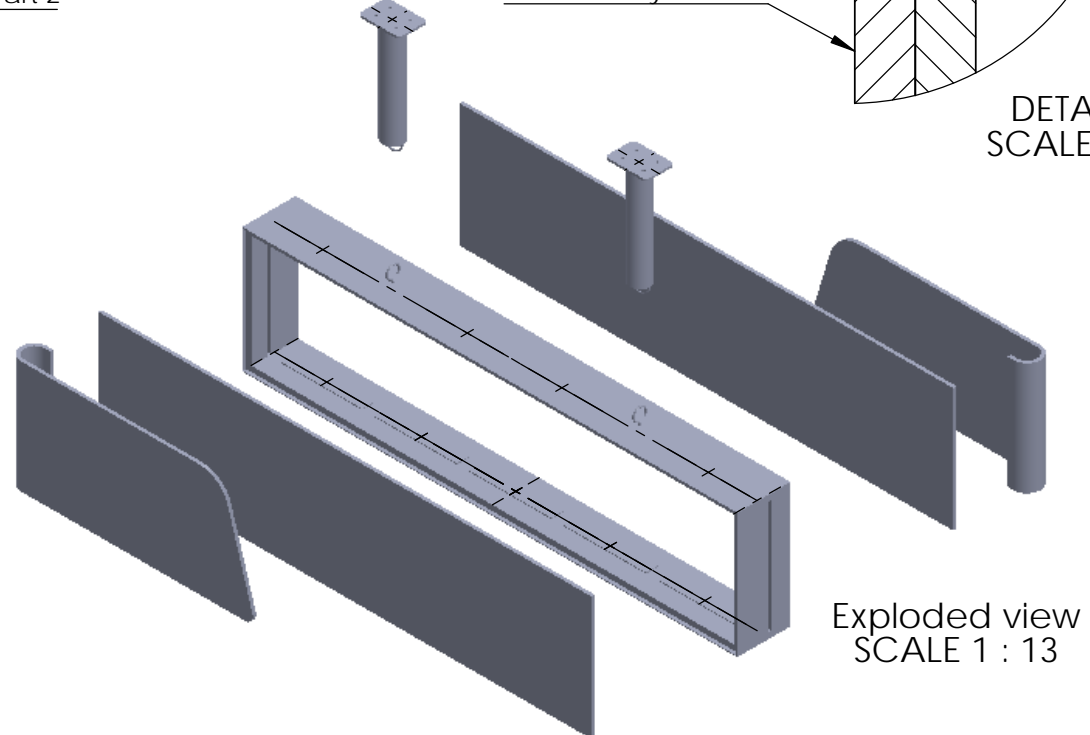
DETAIL E
SCALE 1 : 1

15mm Aluminium
extrusion frame slotted
to insert acrylic

8mm acrylic bent and
inserted into frame

8mm acrylic pasted with
adhesive and flushed
to aluminium frame

DETAIL D
SCALE 1 : 2



MATERIAL NOTES :

- Part 1:** - Sign Box .
- 15mm thick 130mmwide aluminium
extrusion.
- Powder coated in RAL classic 7016 .
- Part 2:** - Sign Panel.
- 8mm thick clear acrylic
over which plotter cut vinyl is pasted .
- Part 3:** - Sign Panel.
- 8mm thick clear acrylic turned to radius
over which plotter cut vinyl is pasted.
- Part 4 :** - 50mm dia pipe as light suspender upto a
height of 4m
- Part 5 :** - Led module as per further specification


GENERAL NOTES:


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| DY CE | KOCHI METRO RAIL LIMITED | | |
| | SIGN NAME: Directino Sign, Suspended | | |
| | STATUS: TENDER (TEKM /TENDER | | |
| CE (D&C) | SCALE: STF | DRG.NO: TEKM-T3M3-301.1.1P-02 | |
| | DATE: 30.12.15 | DRAWN BY: Dinesh | |
| | REV.NO. 1 | CHECKED BY: Puneet | |

Instructions :

STRUCTURAL NOTES:

- all dimensions are in millimeters and levels are in meters.
- Structural steel shall be conform to isi2062 grade a(1992), or is 1161 or grade b(1992)as applicable.
- Bolts and nuts shall conform to isi1363 and 1367(1980).
- Fabrication of structural steel shall conform to isi800(1984).
- Length of inclined members and sizes of gusset plates shall be obtained by full scale shop layout.
- All dimensions and levels shall be checked as per shop / site layout before commencing fabrication work.
- Splicing if required shall be as per approved details.
- Dimensions and levels shall be checked,prior to erection.
- fabricator has to cross check the dimensions at the site before execution of the work.
- Fabricator will be held responsible for any errors at site.
- Do not scale the drawing.

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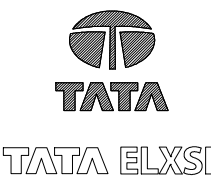
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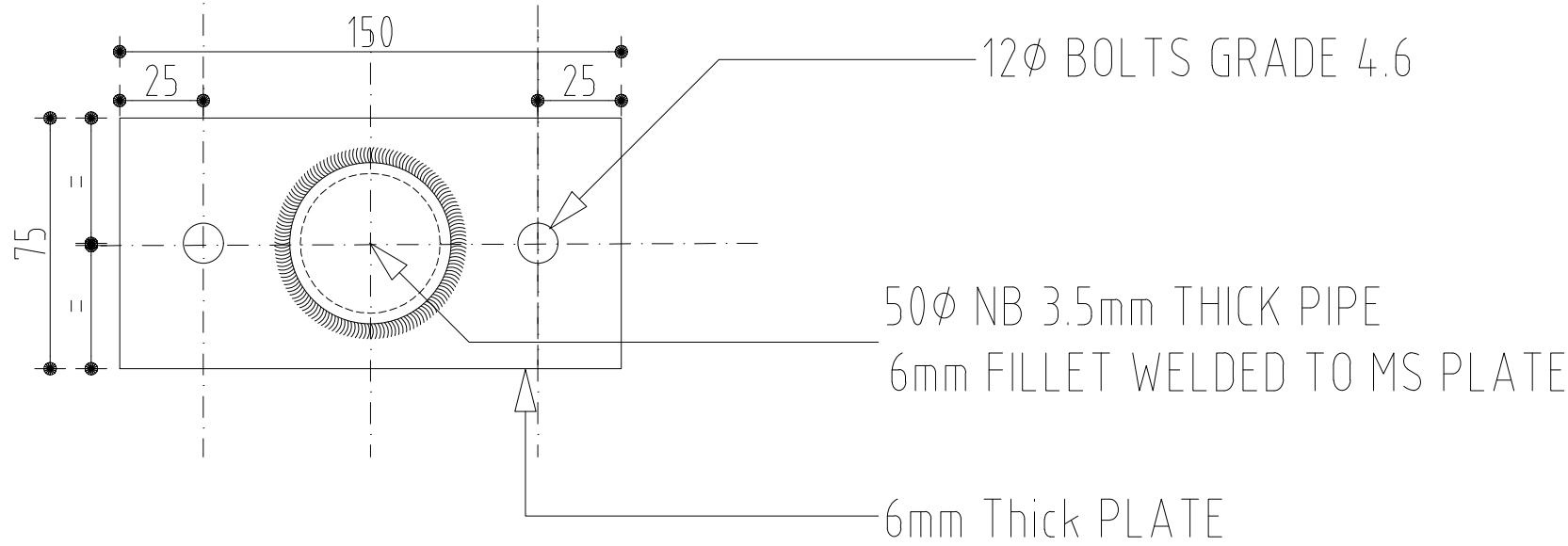
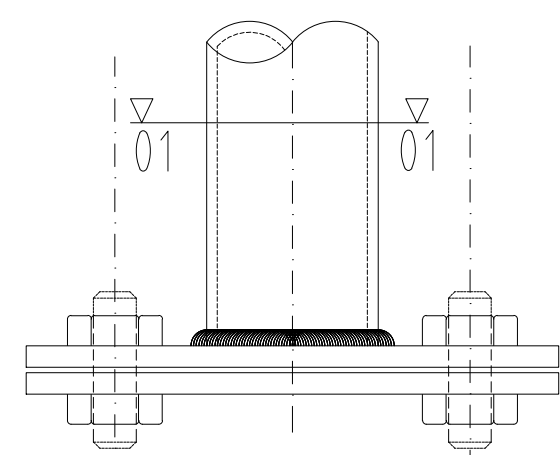
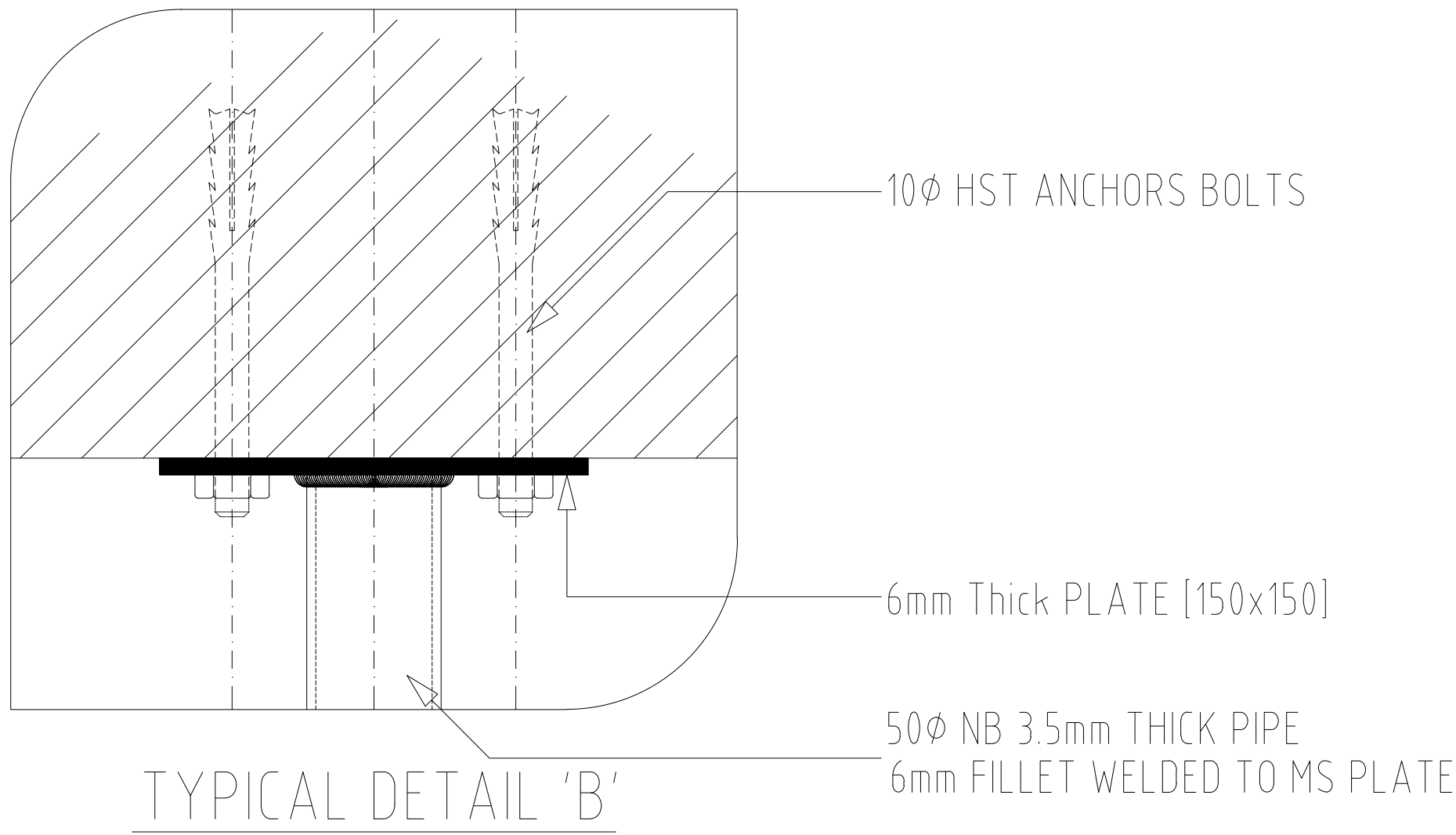
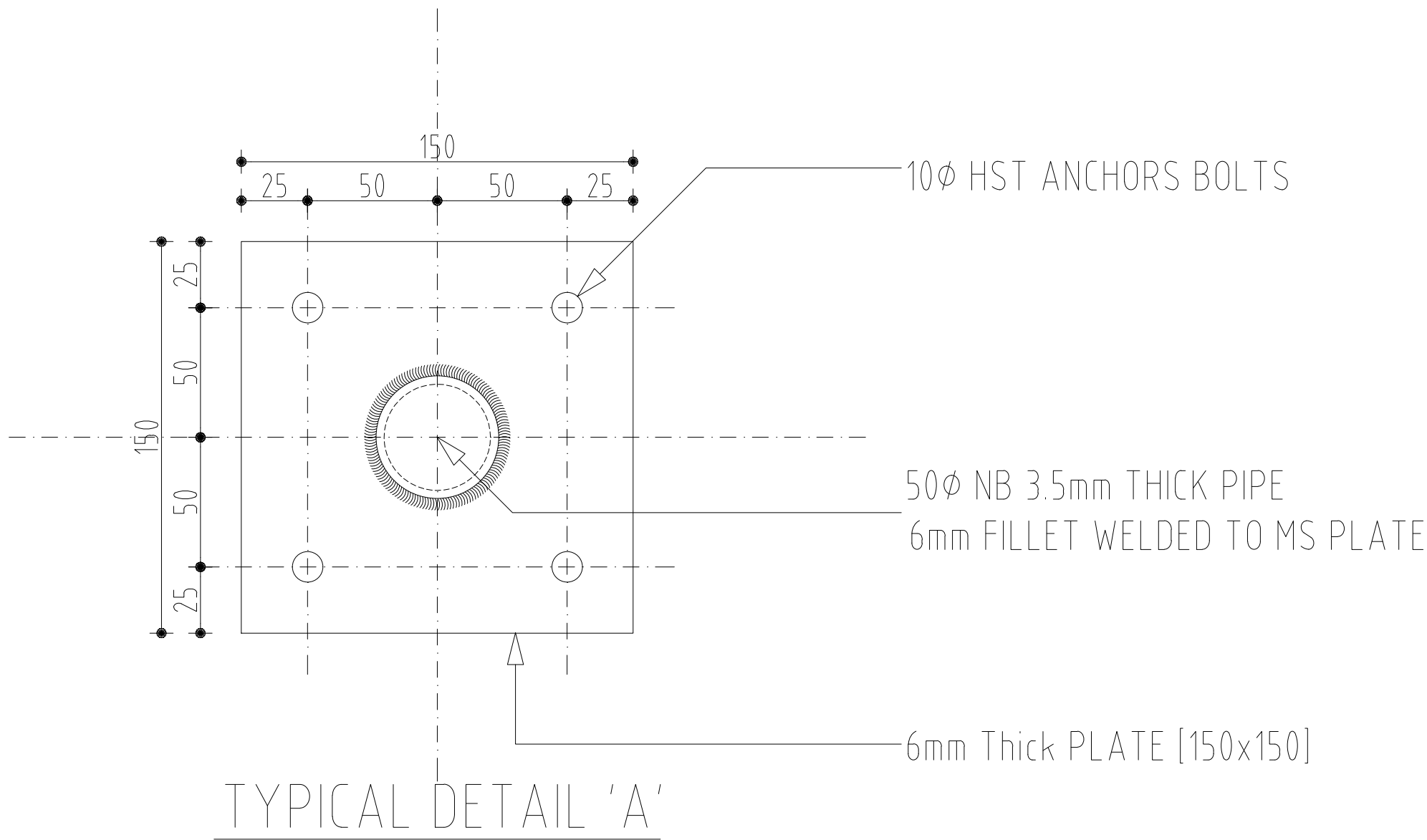
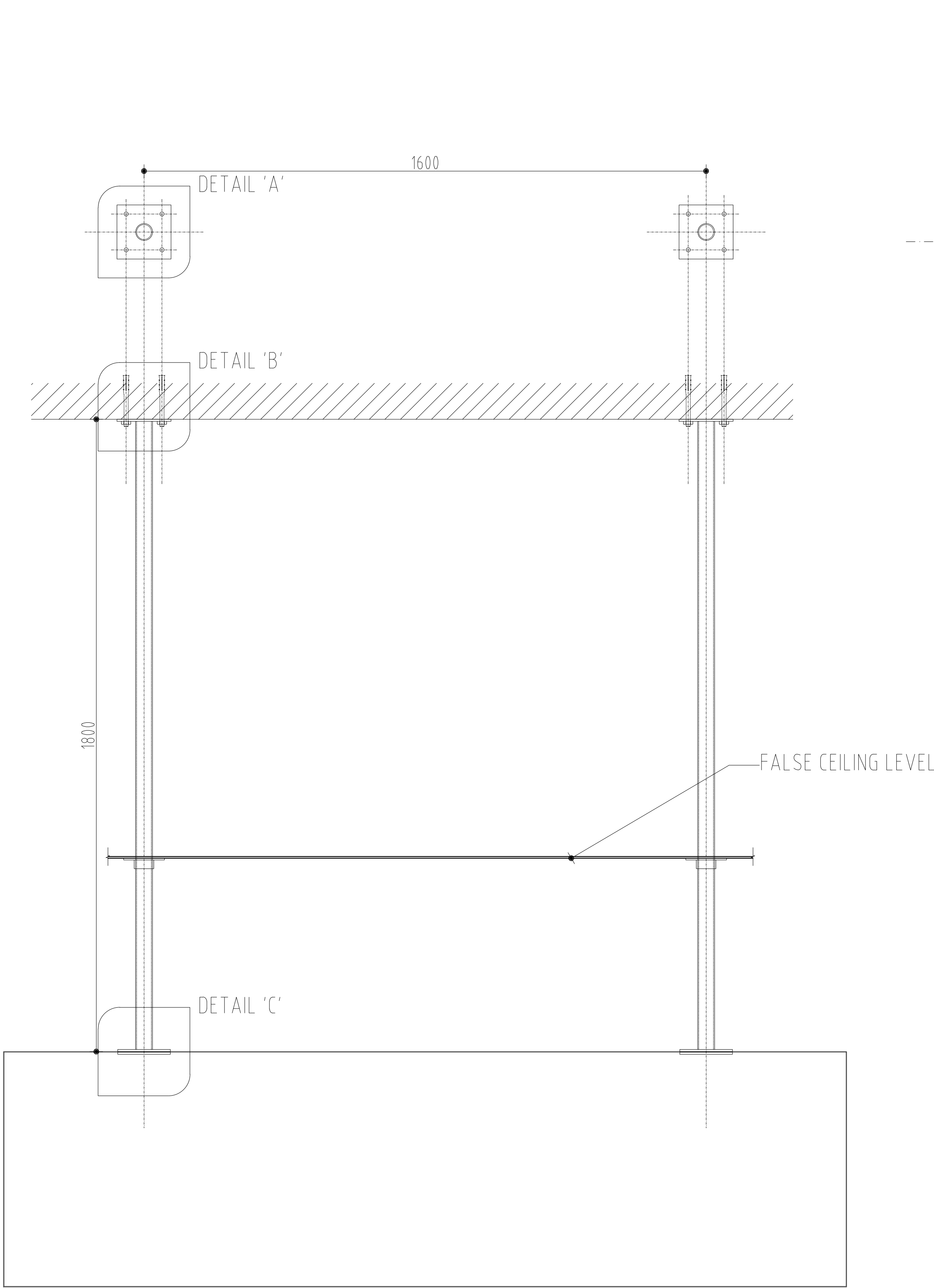
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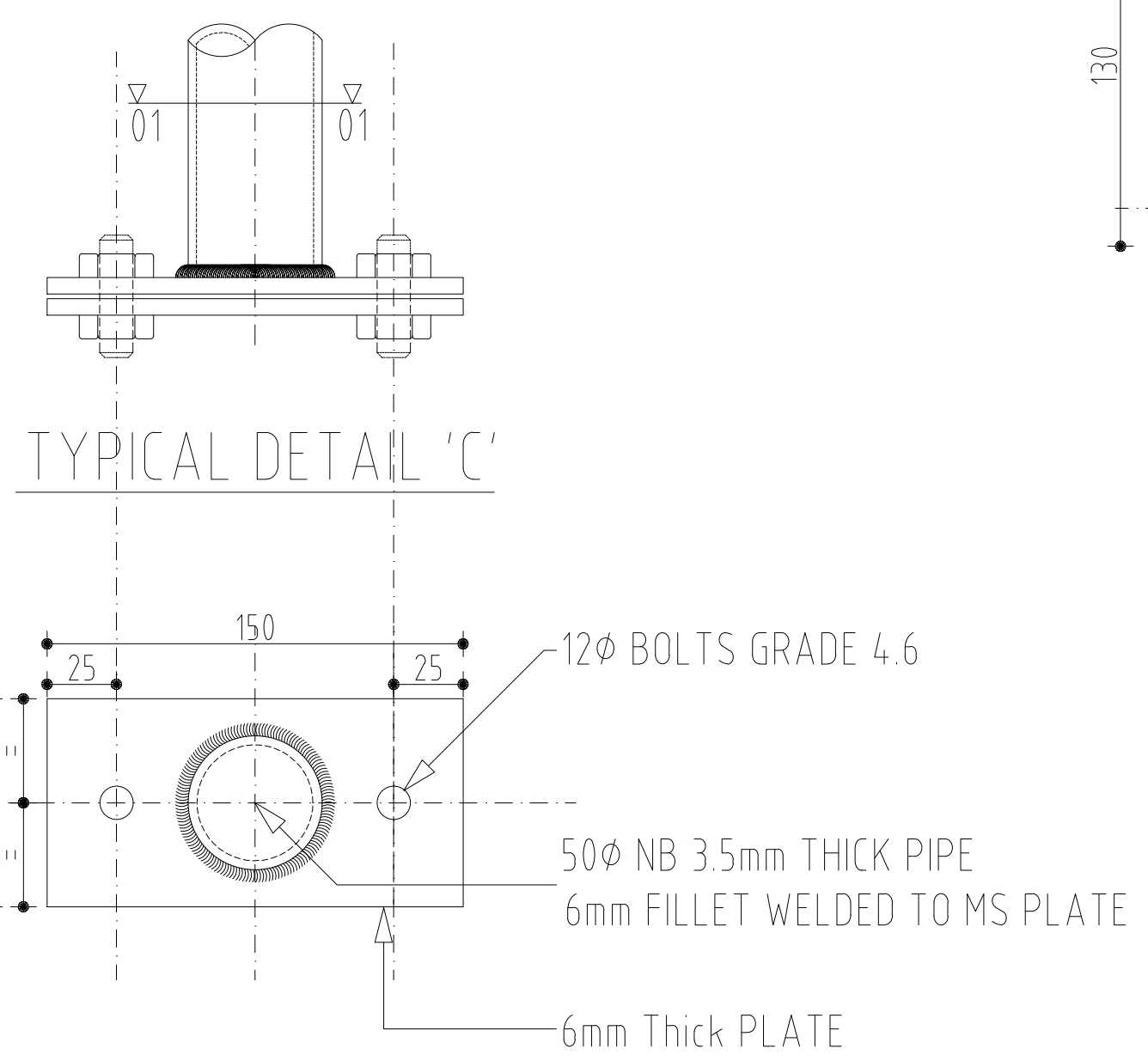
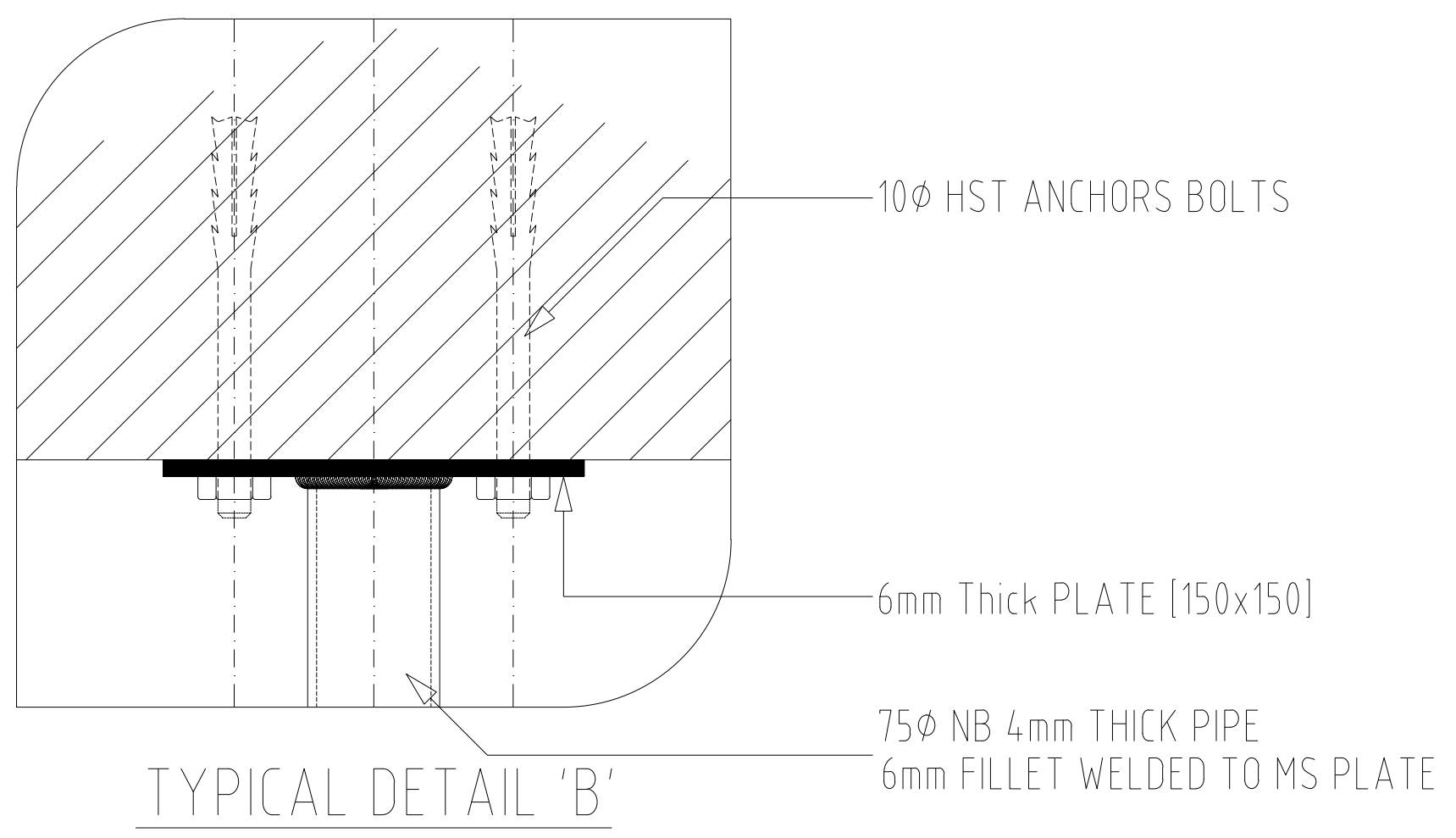
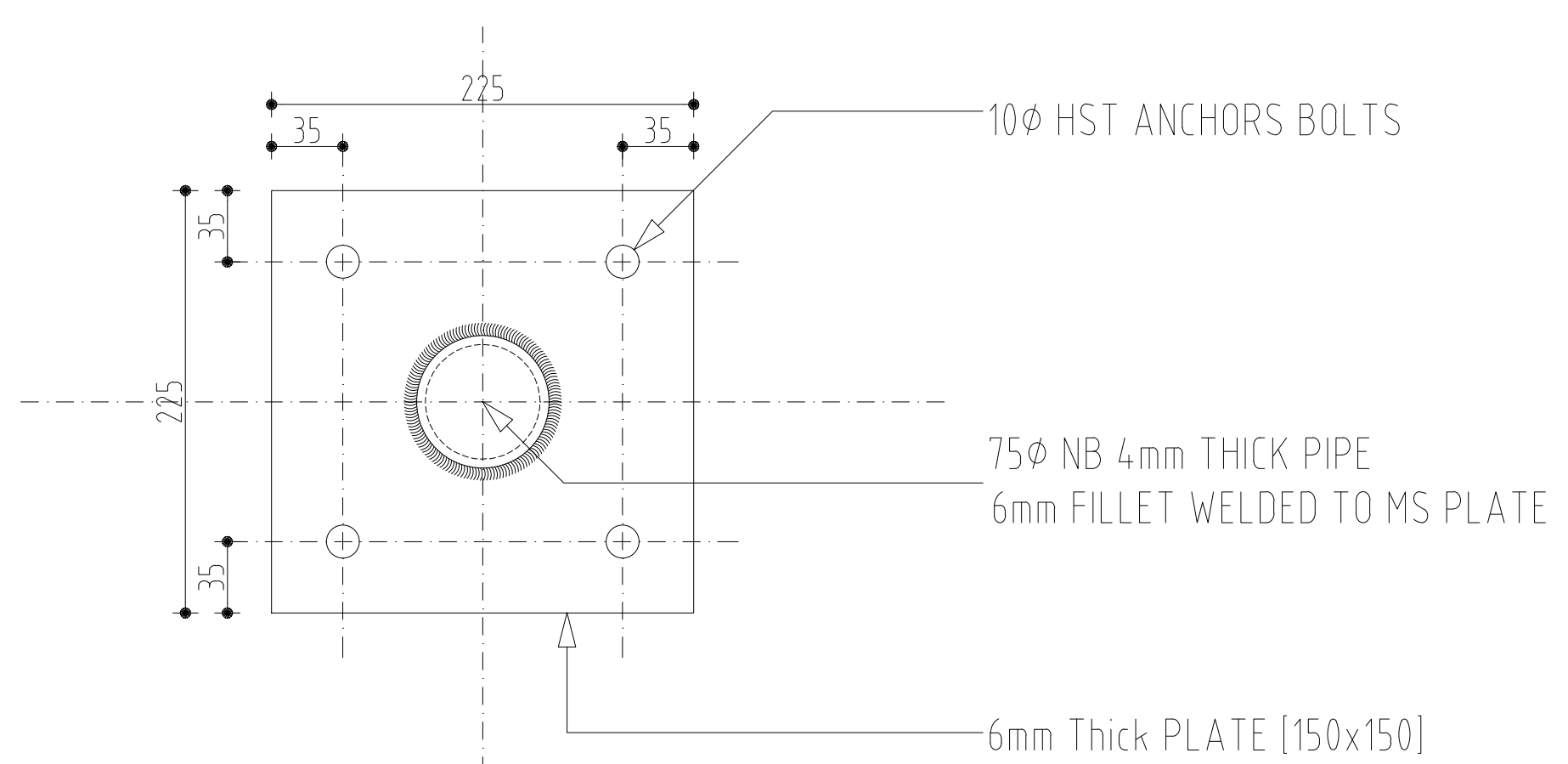
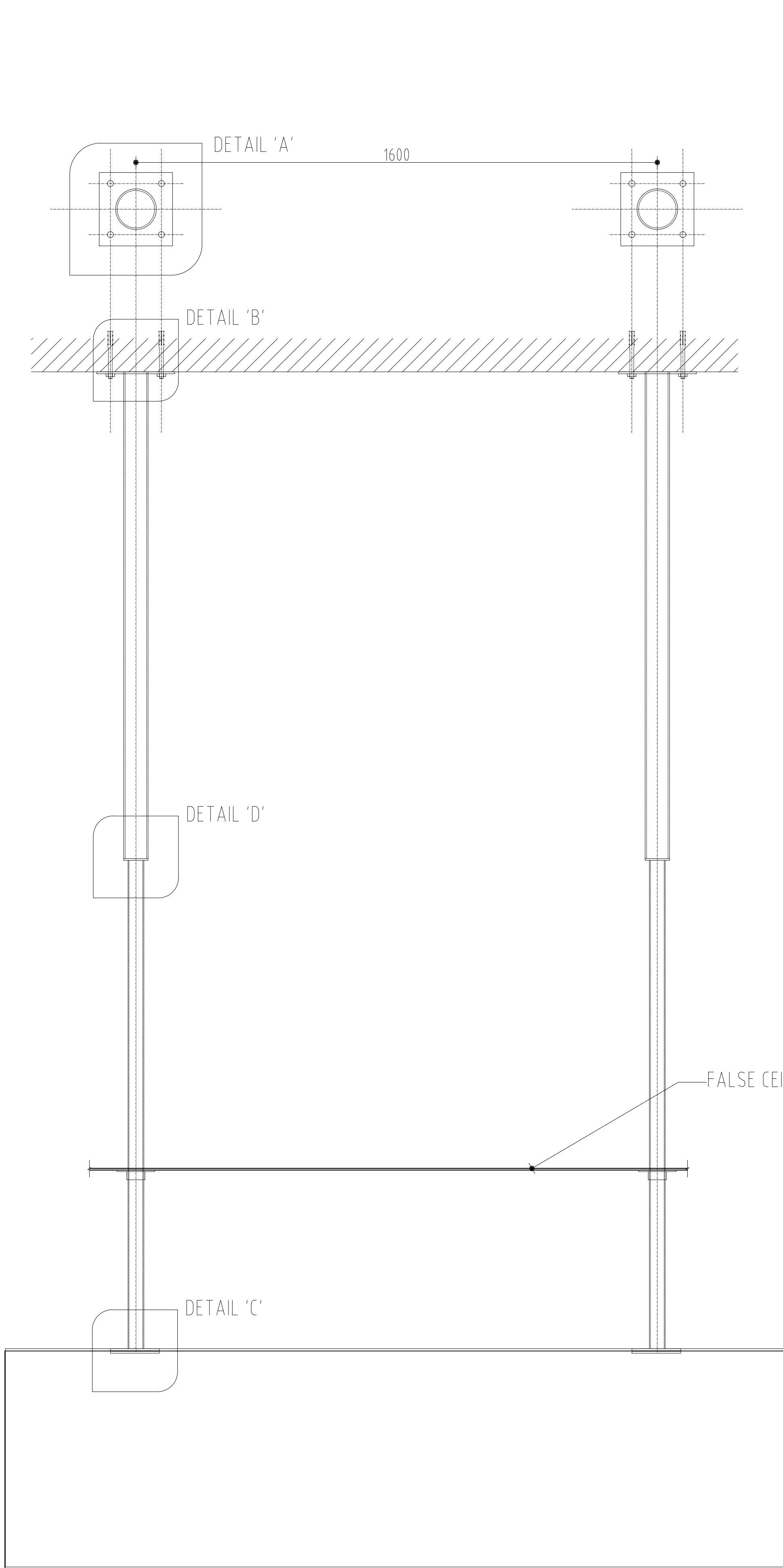
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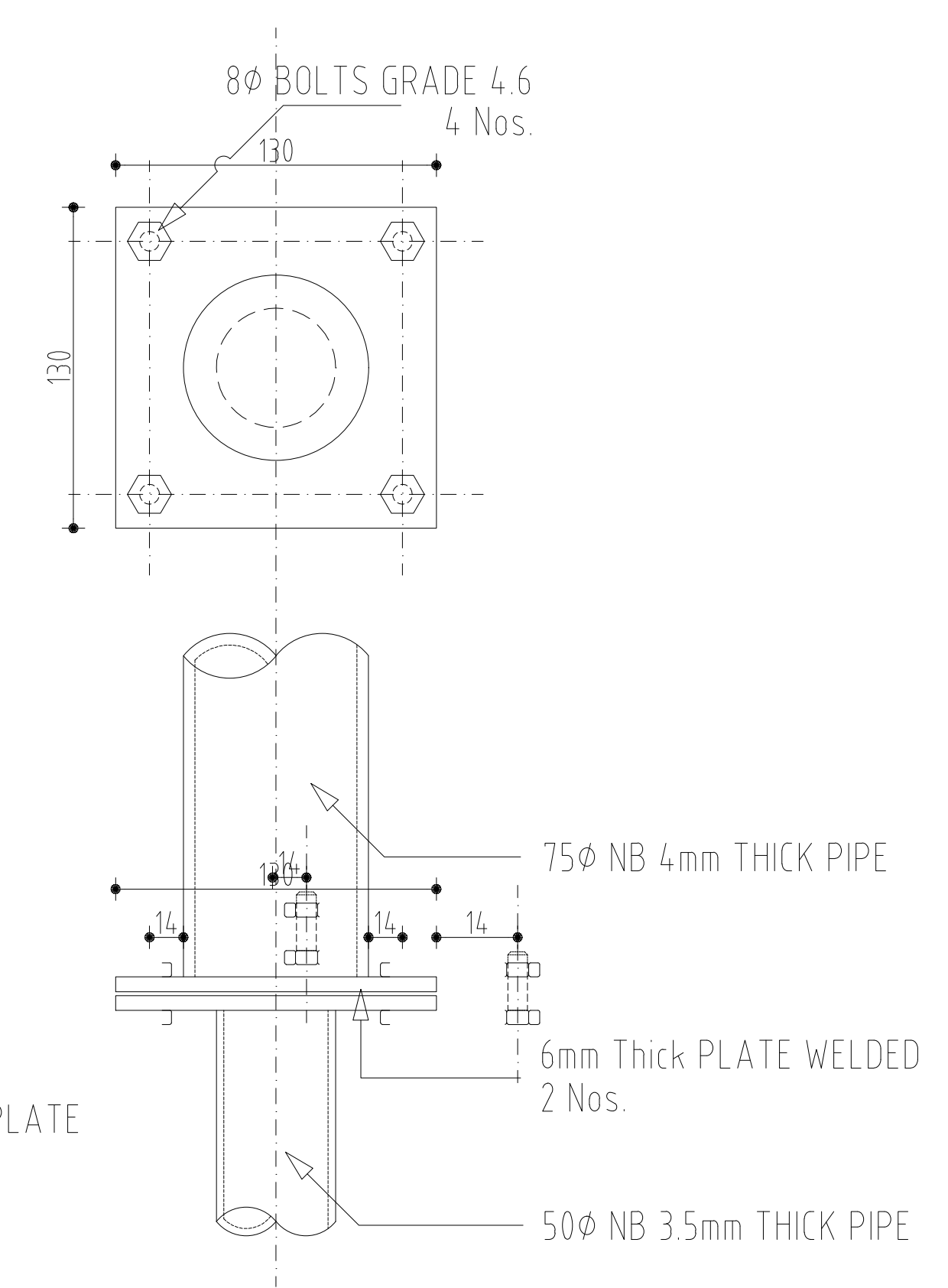


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| APPROVAL BY KMRL | KOCHI METRO RAIL PROJECT | | | SIGNAGE&GRAPHICS |
| | KOCHI METRO RAIL LIMITED | | | |
| | SIGN NAME: Direction Sign, Suspended | | | |
| BY CE | STATUS: TENDER <TEKM /TENDER | |  METRO | |
| | SCALE: STF | DRGNO: TEKM-T3M3-301.1IP-03 | | |
| | DATE: 02.02.16 | DRAWN BY: Dinesh | | |
| CE <D&C> | REV.NO. 2 | CHECKED BY: Puneet | | |





VIEW 01-01



Instructions :

STRUCTURAL NOTES:

1. all dimensions are in millimeters and levels are in meters.
2. Structural steel shall be conform to is:2062 grade a(1992), or is 1161 or grade b(1992)as applicable.
3. Bolts and nuts shall conform to is:1363 and 1367(1980).
4. Fabrication of structural steel shall conform to is:800(1984).
5. Length of inclined members and sizes of gusset plates shall be obtained by full scale shop layout.
6. All dimensions and levels shall be checked as per shop / site layout before commencing fabrication work.
7. Splicing if required shall be as per approved details.
8. Dimensions and levels shall be checked,prior to erection.
9. fabricator has to cross check the dimensions at the site before execution of the work.
10. Fabricator will be held responsible for any errors at site.
11. Do not scale the drawing.

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| REV NO | DATE | DESCRIPTION | SIGN |
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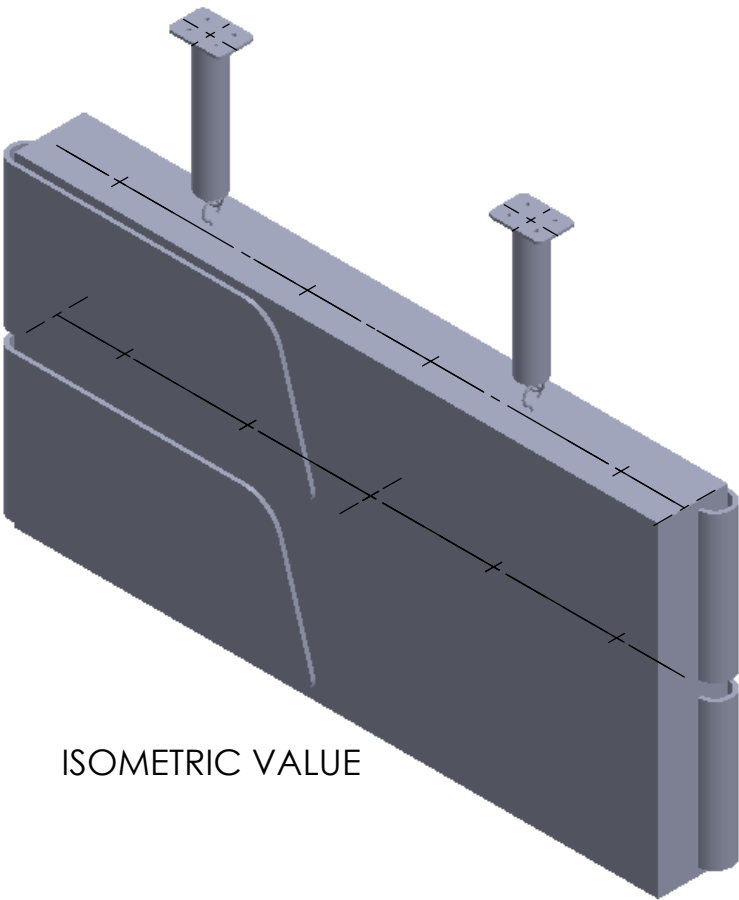
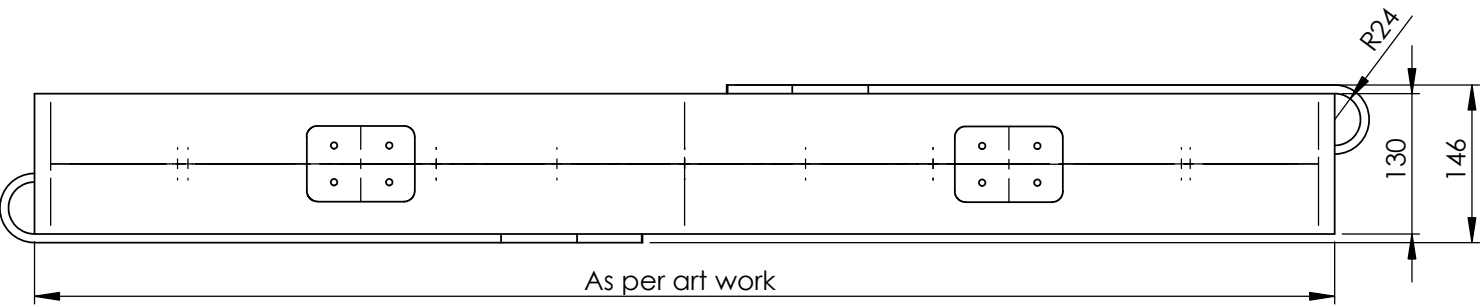
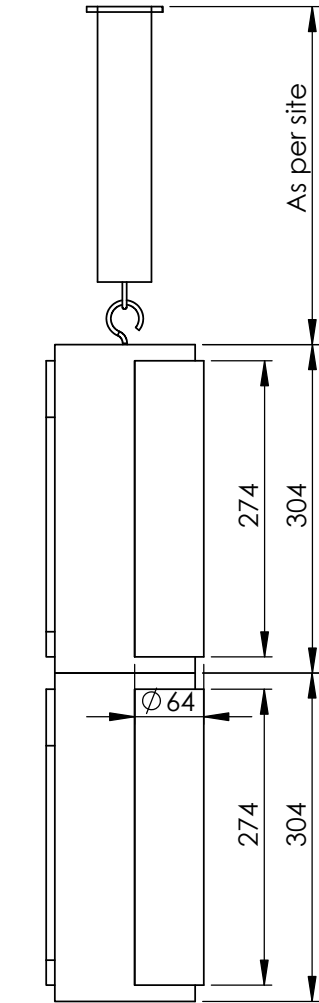
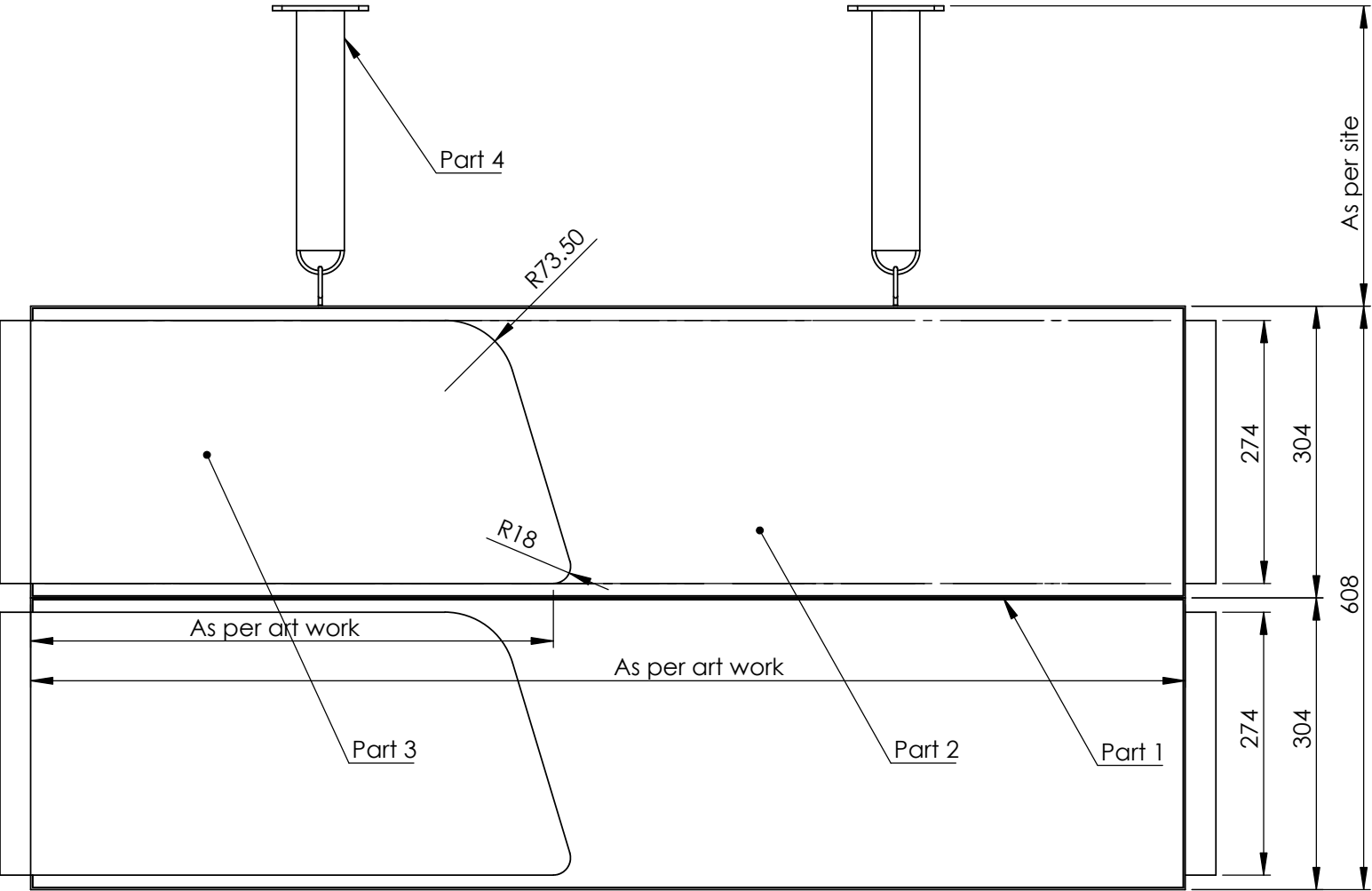
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| DY CE | KOCHI METRO RAIL LIMITED | | | |
| | SIGN NAME: Direction Sign, Suspended | | | |
| | STATUS: TENDER <TEKM /TENDER | | | |
| | SCALE: STF | DRGNO: TEKM-T3M3-301.1P-04 | | |
| DATE: 02.02.16 | DRAWN BY: Dinesh | | | |
| CE (D&C) | REV.NO. 2 | CHECKED BY: Puneet | | |



ISOMETRIC VALUE

- MATERIAL NOTES :
- Part 1:** - Sign Box .
- 15mm thick 130mmwide aluminium extrusion.
- Powder coated in RAL classic 7016 .
- Part 2:** - Sign Panel.
- 8mm thick clear acrylic over which plotter cut vinyl is pasted .
- Part 3:** - Sign Panel.
- 8mm thick clear acrylic turned to radius over which plotter cut vinyl is pasted.
- Part 4 :** - 50mm dia pipe as light suspender upto a height of 4m

GENERAL NOTES:


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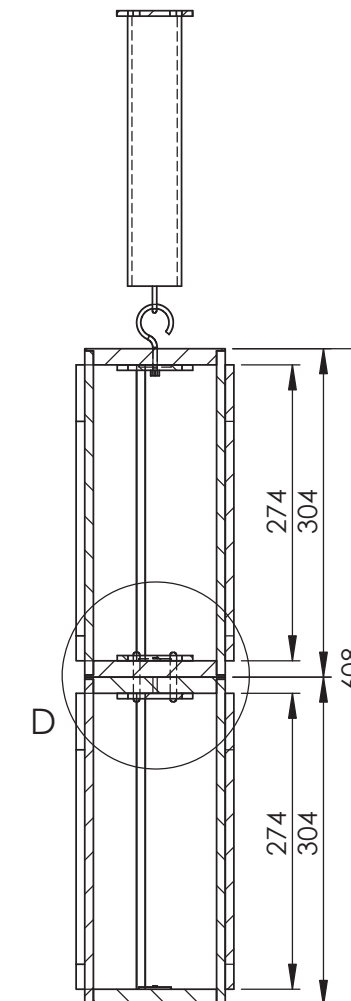
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| REV NO | DATE | DESCRIPTION | SIGN |

SIGNAGE AND GRAPHICS DESIGN CONSULTANT

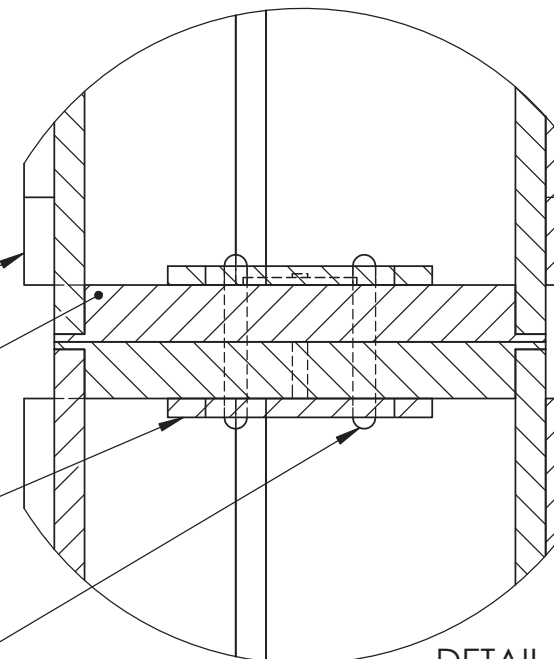
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|---------------------|---|-----------------------------------|--|---|
| APPROVAL BY KMRL | KOCHI METRO RAIL PROJECT | | |  SIGNAGE&GRAPHICS |
| | KOCHI METRO RAIL LIMITED | | | |
| | SIGN NAME: Direction Sign, Suspended, Double height | | | |
| DY CE | STATUS: TENDER (TEKM /TENDER | | | |
| CE (D&C) | SCALE: STF | DRG.NO: TEKM-T3M3-301.1.2 P-01 | | |
| | DATE: 30.12.15 | DRAWN BY: Dinesh | | |
| | REV.NO. 1 | CHECKED BY: Puneet | | |



SECTION B-B
SCALE 1 : 7



DETAIL D
SCALE 1 : 2

ALL DIMENSIONS ARE IN MM.
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| REV NO | DATE | DESCRIPTION | SIGN |

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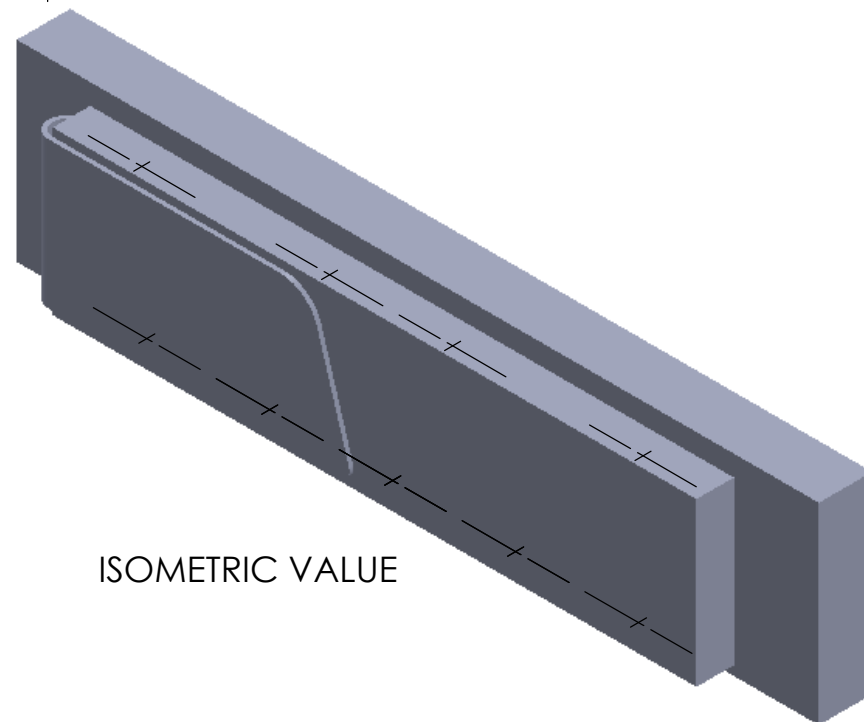
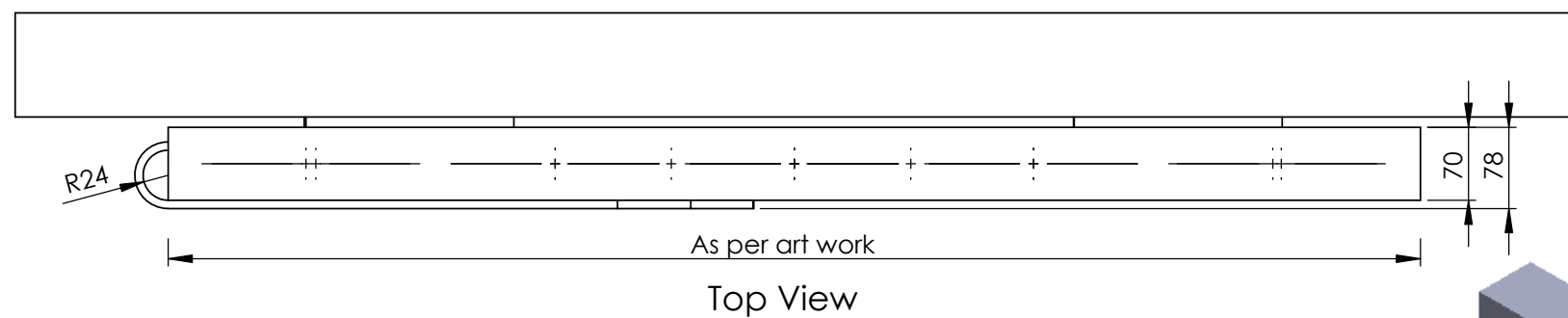
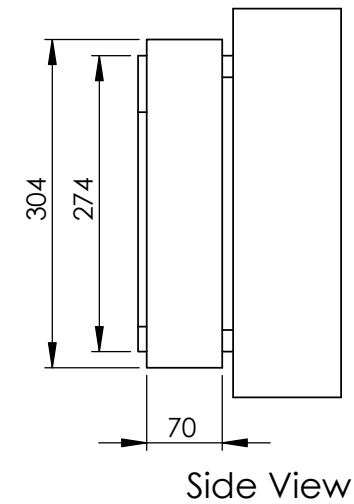
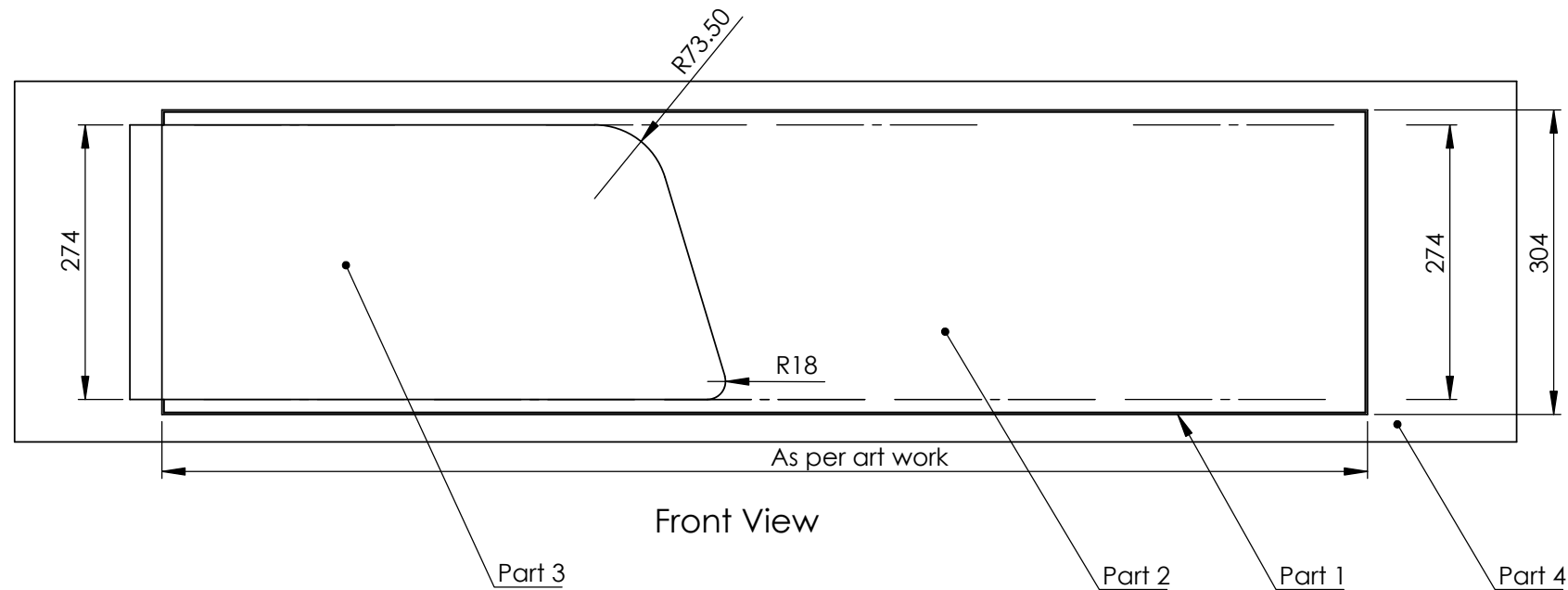
(Name and Designation)
Authorised Signatory for SGDC.

OFFICE OF ORIGIN
TATA ELXSI LIMITED
ITPB ROAD WHITEFIELD,
BANGALORE-560048



| | | | | |
|---------------------|---|-----------------------------------|--|--|
| APPROVAL BY KMRL | KOCHI METRO RAIL PROJECT | | |  KOCHI METRO RAIL LIMITED |
| DY CE | KOCHI METRO RAIL LIMITED | | | |
| | SIGN NAME: Direction Sign, Suspended, Double height | | | |
| | STATUS: TENDER (TEKM /TENDER | | | |
| CE (D&C) | SCALE: STF | DRG.NO: TEKM-T3M3-301.1.2 P-02 | | |
| | DATE: 30.12.15 | DRAWN BY: Dinesh | | |
| | REV.NO. 1 | CHECKED BY: Puneet | | |

SIGNAGE & GRAPHICS



| | |
|------------------|---|
| MATERIAL NOTES : | |
| Part 1: | - Sign Box . - 15mm thick 70mmwide aluminium extrusion. - Powder coated in RAL classic 7016 . |
| Part 2: | - Sign Panel. - 8mm thick clear acrylic over which plotter cut vinyl is pasted . |
| Part 3: | - Sign Panel. - 8mm thick clear acrylic turned to radius over which plotter cut vinyl is pasted. |
| Part 4 : | - Wall on which signage is mounted |

GENERAL NOTES:
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| REV NO | DATE | DESCRIPTION | SIGN |

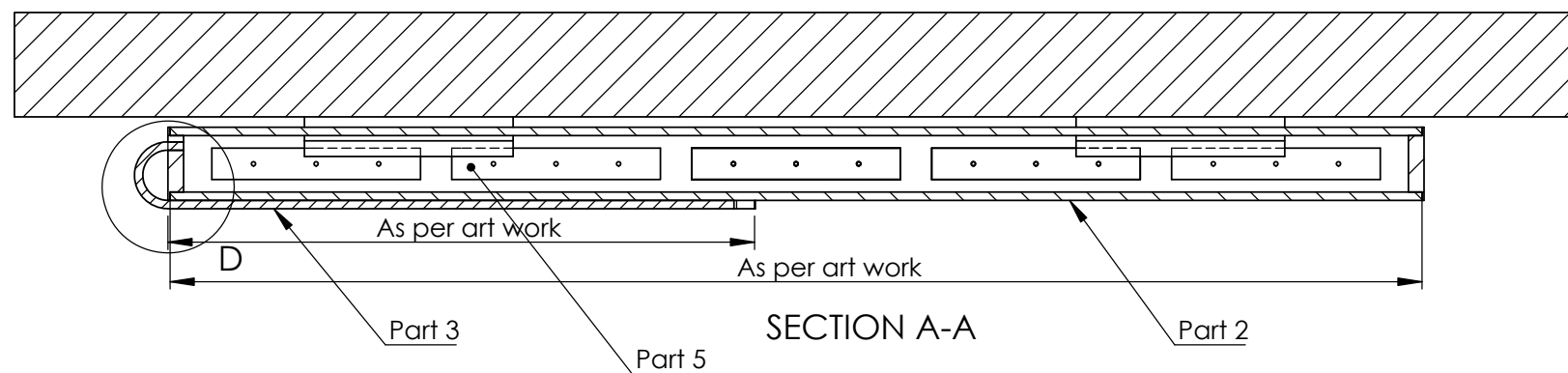
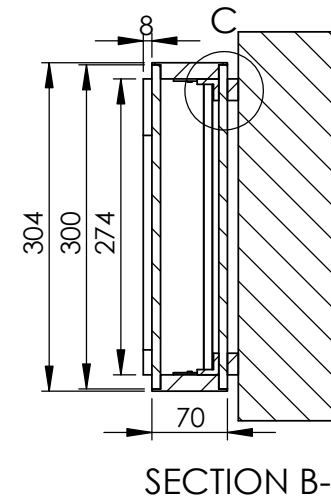
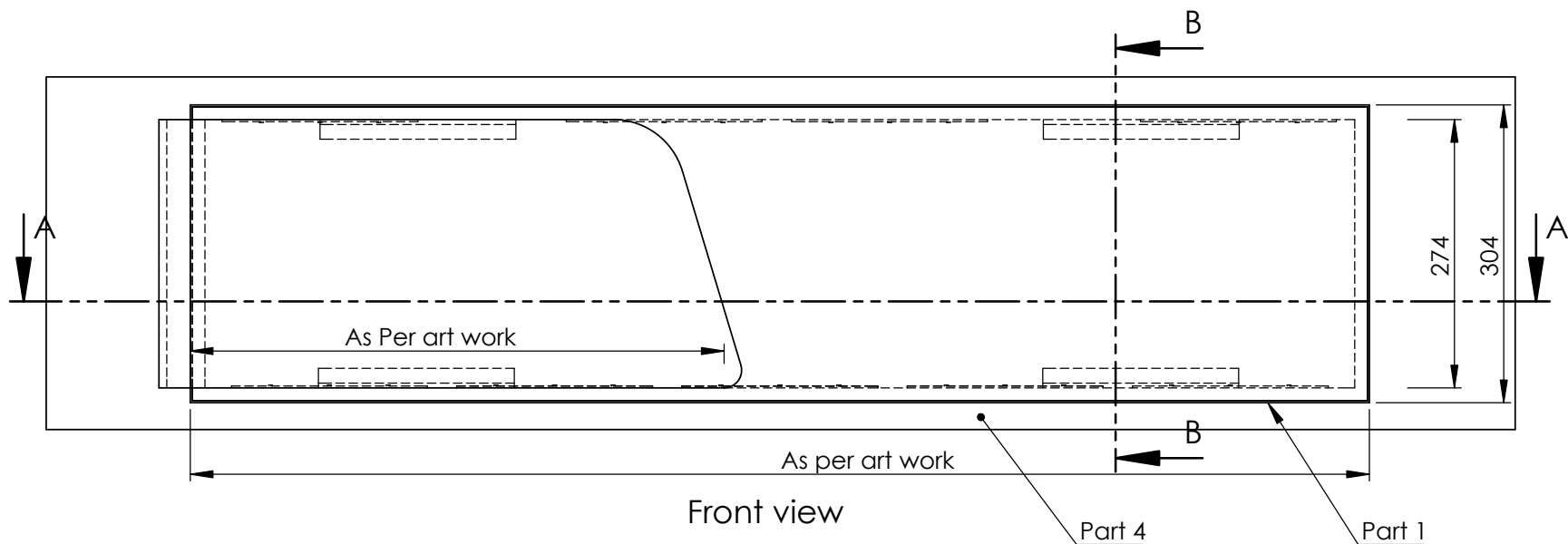
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Authorised Signatory for SGDC.

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| APPROVAL BY KMRL | KOCHI METRO RAIL PROJECT | | | <div>SIGNAGE&GRAPHICS</div> <div></div> |
| DY CE | KOCHI METRO RAIL LIMITED | | | |
| | SIGN NAME: Direction Sign, Face mounted, Illuminated | | | |
| | STATUS: TENDER (TEKM /TENDER | | <div></div> | |
| CE (D&C) | SCALE: STF | DRG.NO: TEKM-T3M3-301.1.3P-01 | | |
| | DATE: 30.12.15 | DRAWN BY: Dinesh | | |
| | REV.NO. 1 | CHECKED BY: Puneet | | |



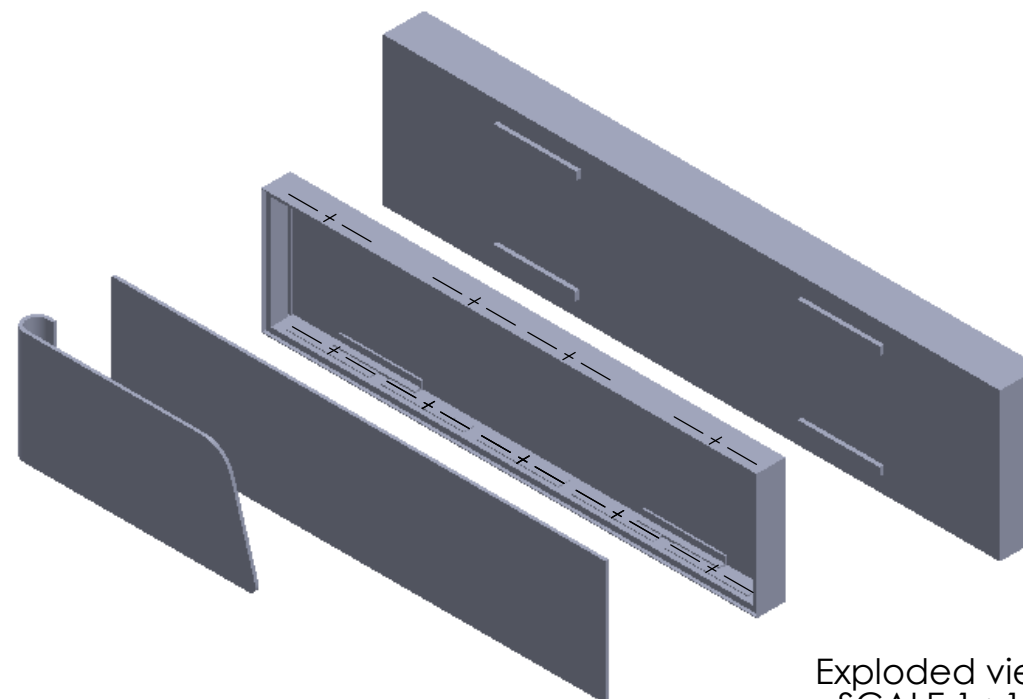
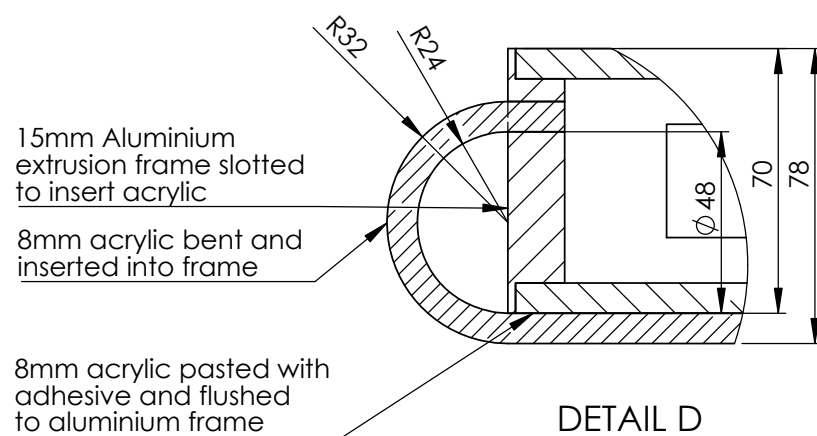
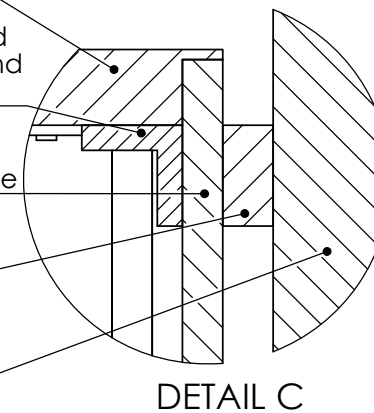
15mm thick 70mm aluminium extrusion

Aluminium L angle fixed to extrusion channel and fastened to wall

Aluminium composite panel flushed with frame

10mm thick rubber spacer

Wall on which signage is mounted



MATERIAL NOTES :

- Part 1:** - Sign Box .
- 15mm thick 70mmwide aluminium extrusion.
- Powder coated in RAL classic 7016 .
- Part 2:** - Sign Panel.
- 8mm thick clear acrylic over which plotter cut vinyl is pasted .
- Part 3:** - Sign Panel.
- 8mm thick clear acrylic turned to radius over which plotter cut vinyl is pasted.
- Part 4 :** - Wall on which signage is mounted
- Part 5 :** - Led module as per further specification

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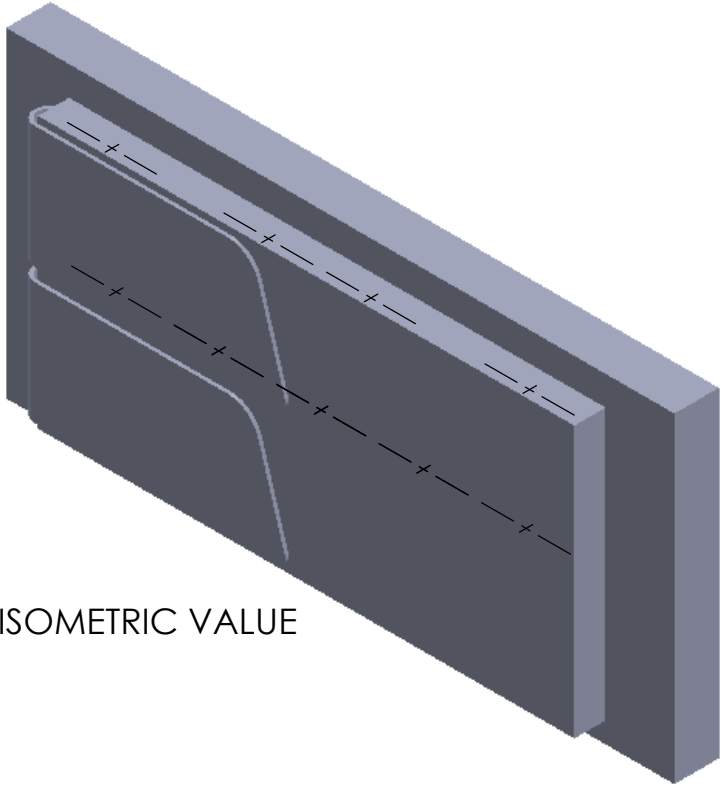
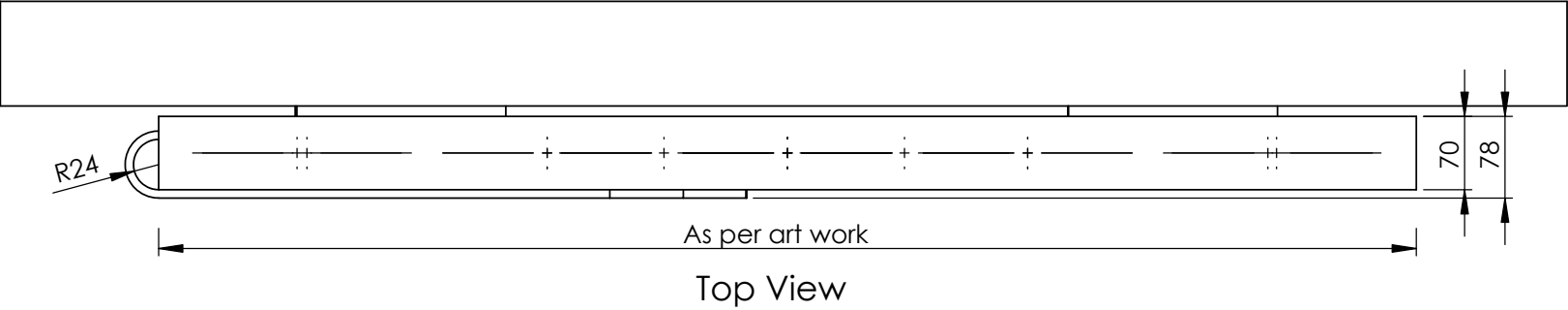
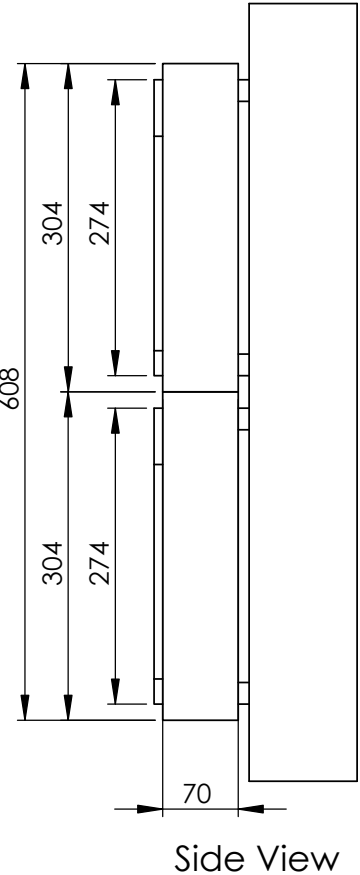
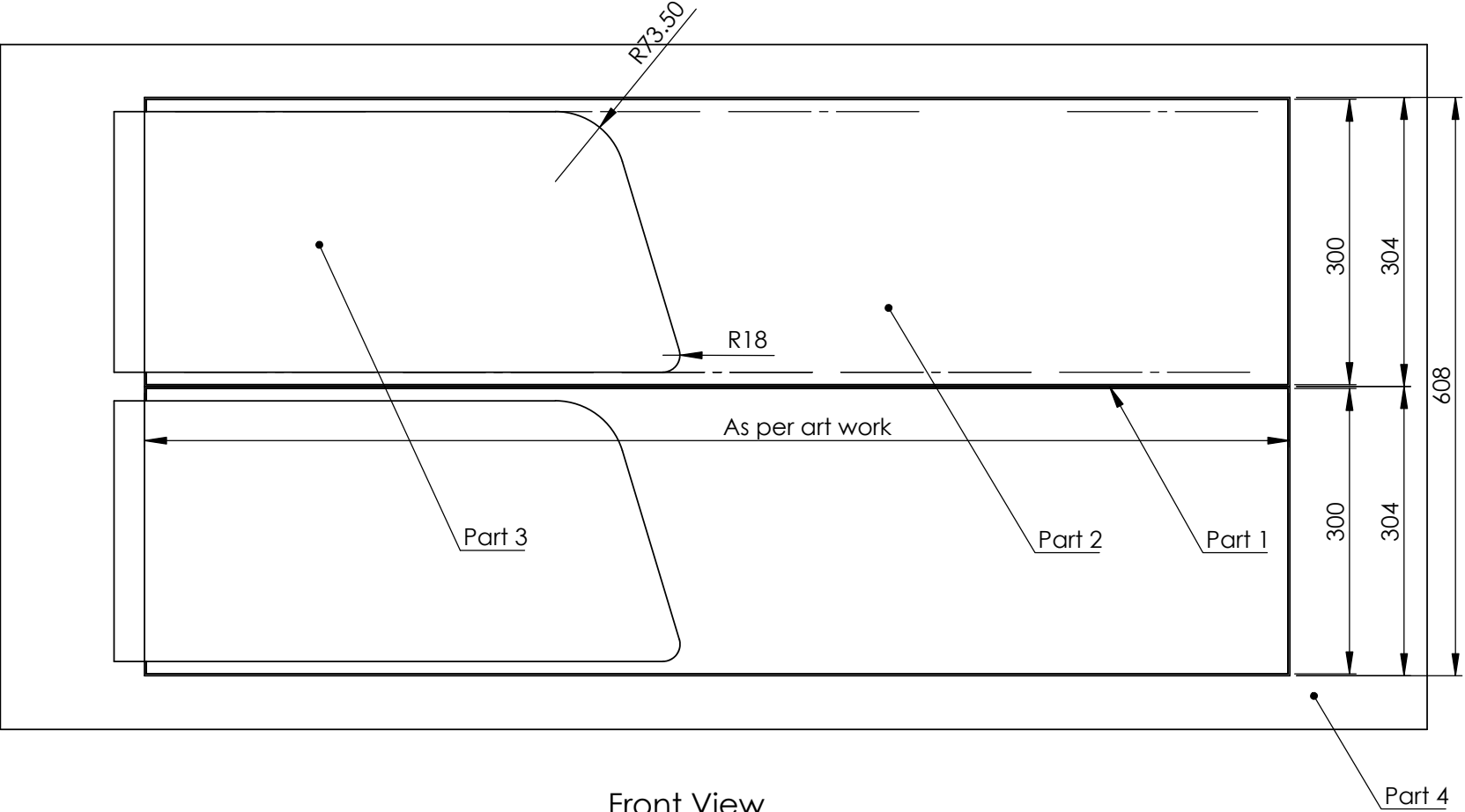
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| APPROVAL BY KMRL | KOCHI METRO RAIL PROJECT | | |  SIGNAGE&GRAPHICS |
| | KOCHI METRO RAIL LIMITED | | | |
| | SIGN NAME: Directino Sign, Post mounted, Illuminated | | | |
| DY CE | STATUS: TENDER (TEKM /TENDER | | | |
| CE (D&C) | SCALE: STF | DRG.NO: TEKM-T3M3-301.1.3P-02 | | |
| | DATE: 30.12.15 | DRAWN BY: Dinesh | | |
| | REV.NO. 1 | CHECKED BY: Puneet | | |



MATERIAL NOTES :

Part 1:

- Sign Box .

- 15mm thick 70mmwide aluminium extrusion.

- Powder coated in RAL classic 7016 .

Part 2:

- Sign Panel.

- 8mm thick clear acrylic over which plotter cut vinyl is pasted .

Part 3:

- Sign Panel.

- 8mm thick clear acrylic turned to radius over which plotter cut vinyl is pasted.

Part 4 :

- Wall on which signage is mounted

GENERAL NOTES:

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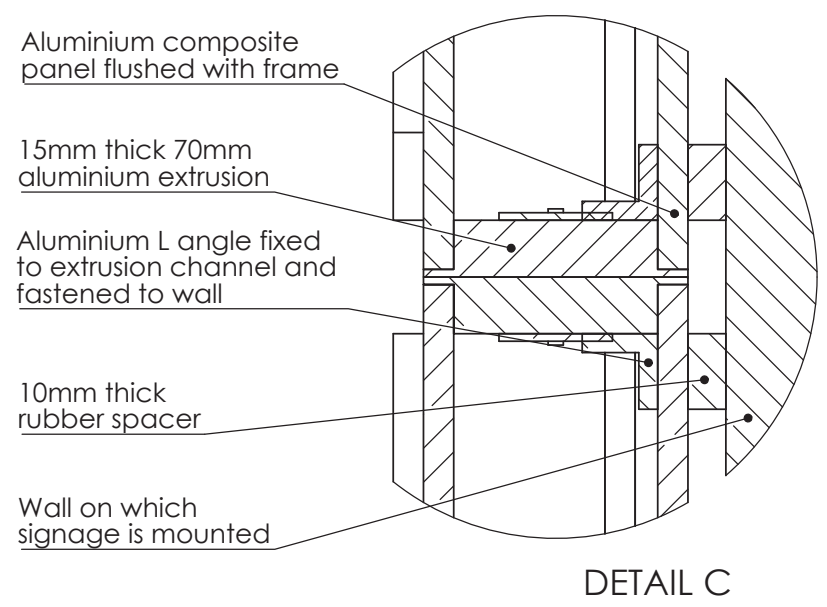
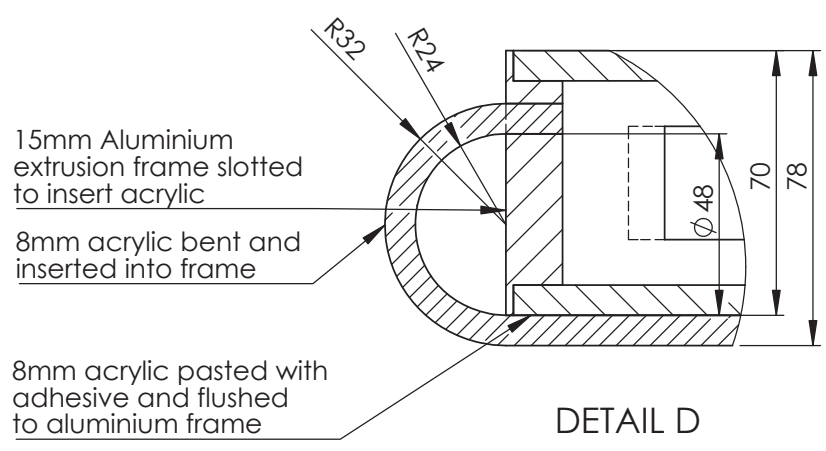
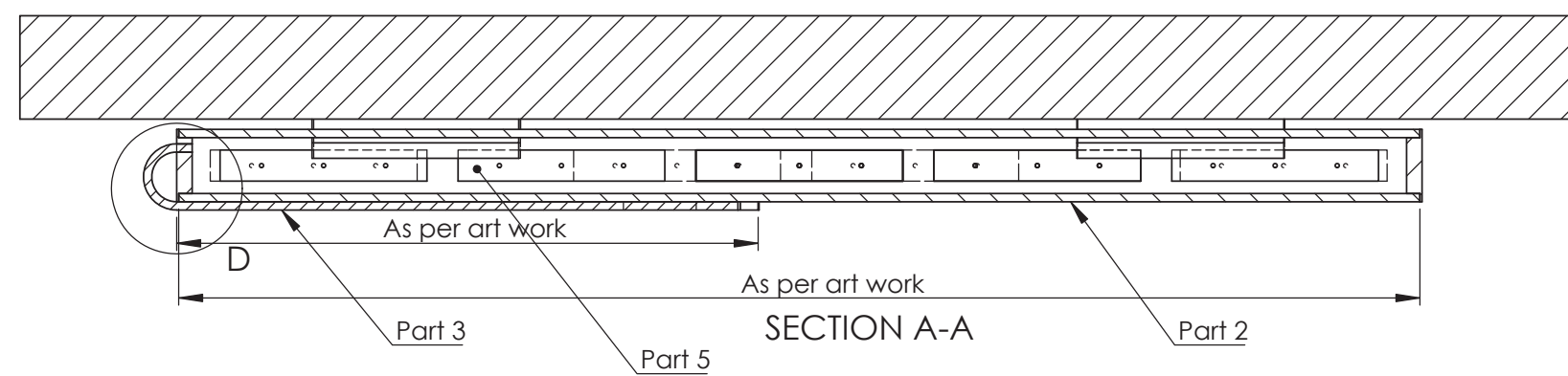
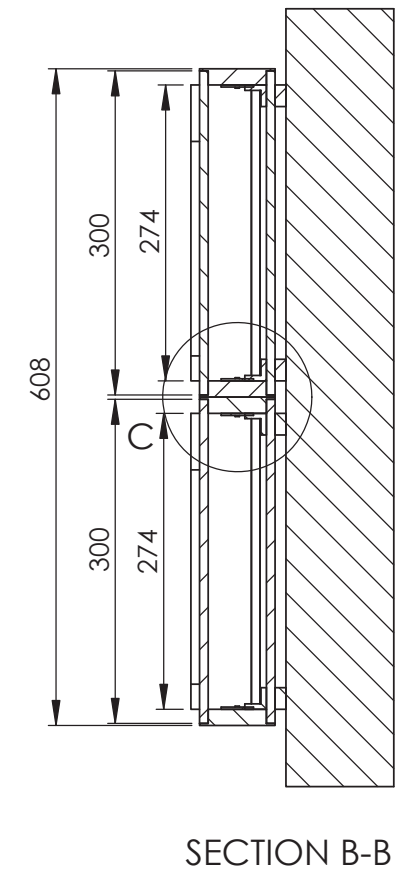
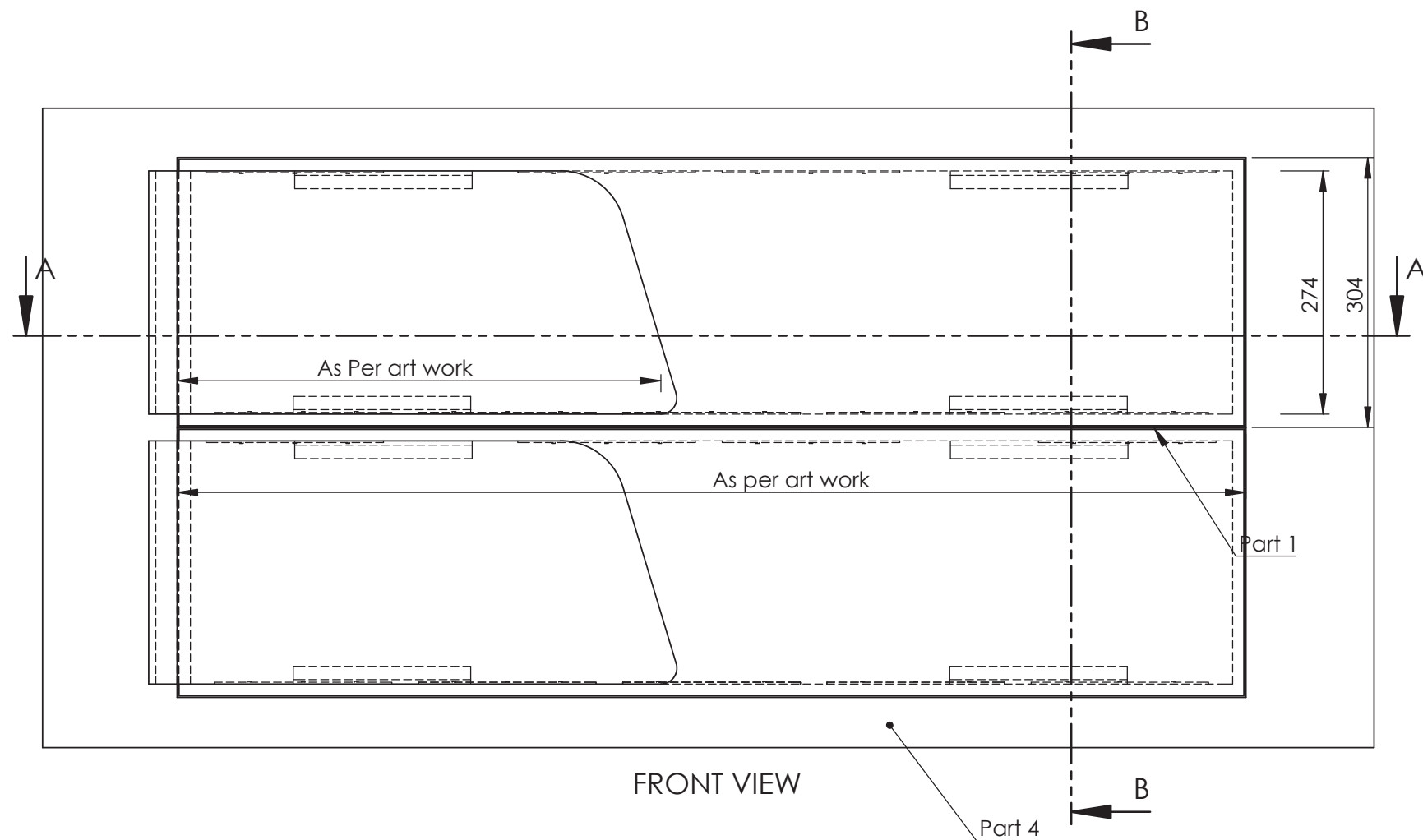
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TATA ELXSI LIMITED

ITPB ROAD WHITEFIELD,

BANGALORE-560048

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| APPROVAL BY KMRL | KOCHI METRO RAIL PROJECT | | | SIGNAGE&GRAPHICS |
| DY CE | KOCHI METRO RAIL LIMITED | | | |
| | SIGN NAME: Direction Sign, Face mounted, Double height | | | |
| | STATUS: TENDER (TEKM /TENDER | | | |
| CE (D&C) | SCALE: STF | DRG.NO: TEKM-T3M3-301.1.4P-1 | | |
| | DATE: 30.12.15 | DRAWN BY: Dinesh | | |
| | REV.NO. 1 | CHECKED BY: Puneet | | |



MATERIAL NOTES :

- Part 1:** - Sign Box .
- 15mm thick 70mmwide aluminium extrusion.
- Powder coated in RAL classic 7016 .
- Part 2:** - Sign Panel.
- 8mm thick clear acrylic over which plotter cut vinyl is pasted .
- Part 3:** - Sign Panel.
- 8mm thick clear acrylic turned to radius over which plotter cut vinyl is pasted.
- Part 4 :** - Wall on which signage is mounted
- Part 5 :** - Led module as per further specification

GENERAL NOTES:


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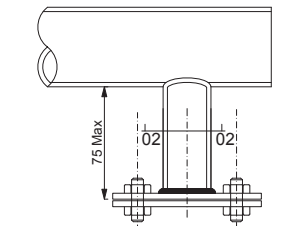
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| APPROVAL BY KMRL | KOCHI METRO RAIL PROJECT | | |  METRO | SIGNAGE&GRAPHICS |
| | KOCHI METRO RAIL LIMITED | | | | |
| | SIGN NAME: Direction Sign, Face mounted, Double height | | | | |
| DY CE | STATUS: TENDER (TEKM /TENDER | | | | |
| CE (D&C) | SCALE: STF | DRG.NO: TEKM-T3M3-301.1.4P-2 | | | |
| | DATE: 30.12.15 | DRAWN BY: Dinesh | | | |
| | REV.NO. 1 | CHECKED BY: Puneet | | | |



TYPICAL DETAIL 'C'

12Ø BOLTS GRADE 4.6

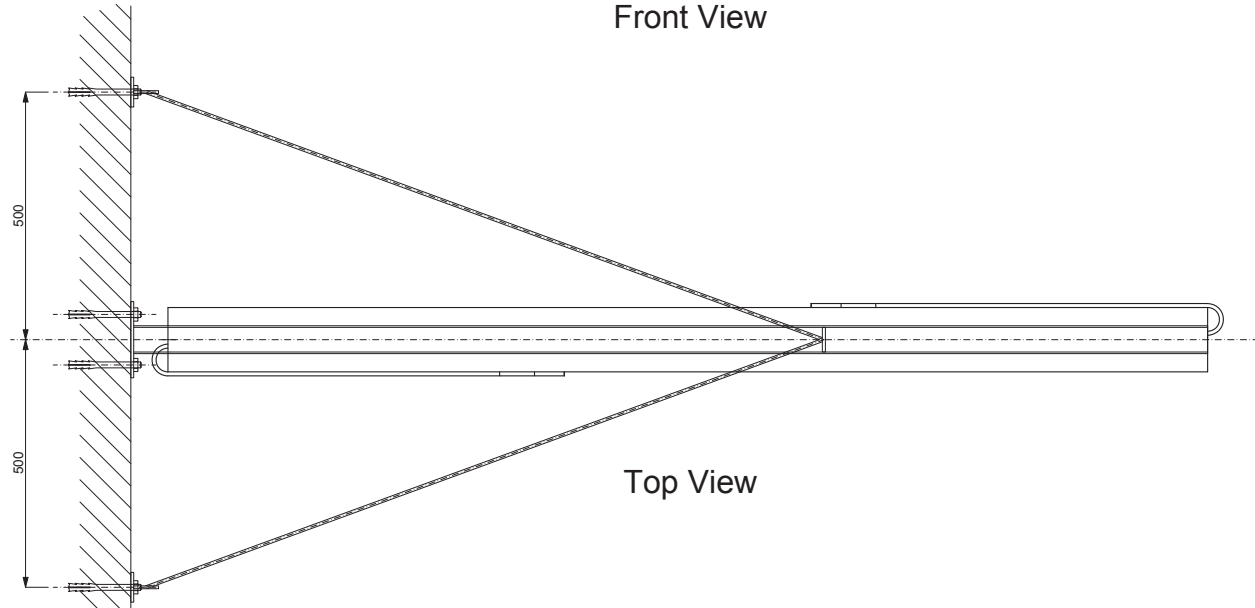
32Ø NB 2.6mm THICK PIPE
6mm FILLET WELDED TO MS PLATE

6mm Thick PLATE

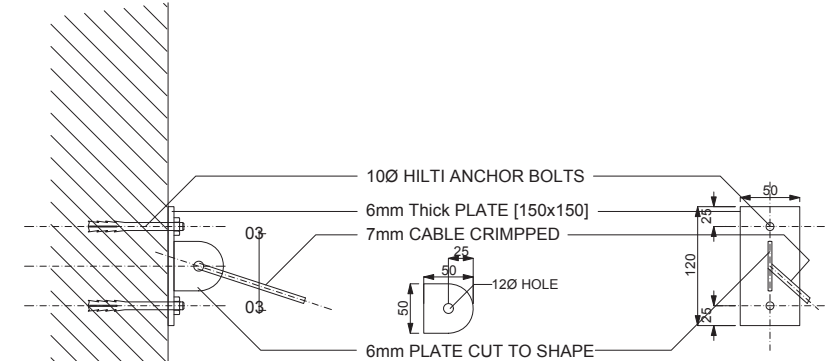
VIEW 02-02

Side View

Front View

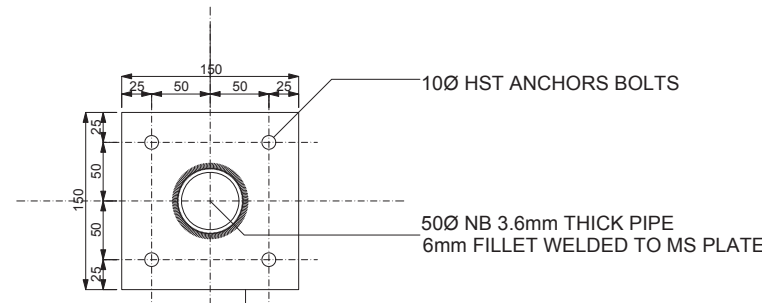


Top View

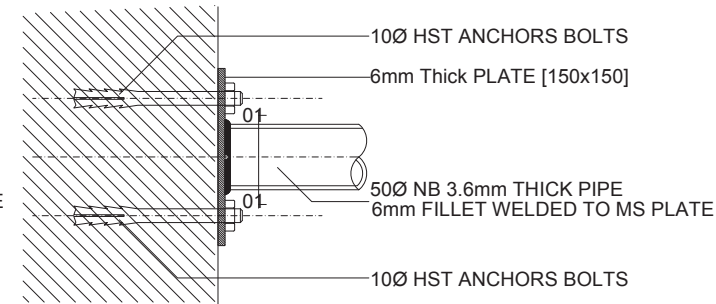


VIEW 03-03

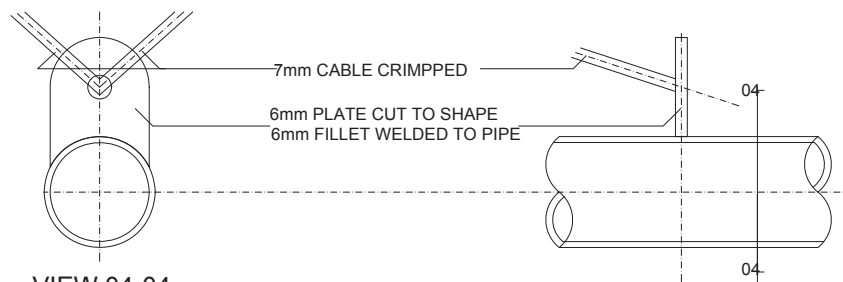
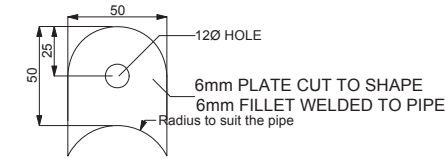
TYPICAL DETAIL 'B'



VIEW 01-01



TYPICAL DETAIL 'A'



VIEW 04-04

TYPICAL DETAIL 'D'

MATERIAL NOTES :

- Part 1:
 - Sign Box .
 - 15mm thick 130mmwide aluminium extrusion.
 - Powder coated in RAL classic 7016 .
- Part 2:
 - Sign Panel.
 - 8mm thick clear acrylic over which plotter cut vinyl is pasted
- Part 3:
 - Sign Panel.
 - 8mm thick clear acrylic turned to radius over which plotter cut vinyl is pasted.

GENERAL NOTES:

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| REV NO | DATE | DESCRIPTION | SIGN |


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| SIGNAGE AND GRAPHICS DESIGN CONSULTANT |
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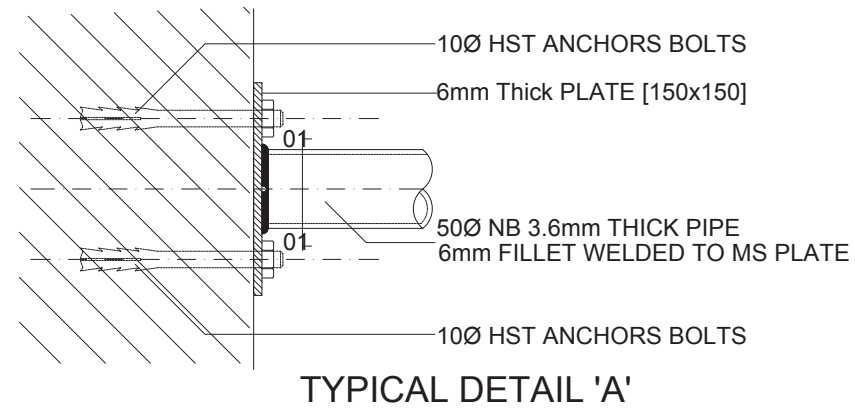
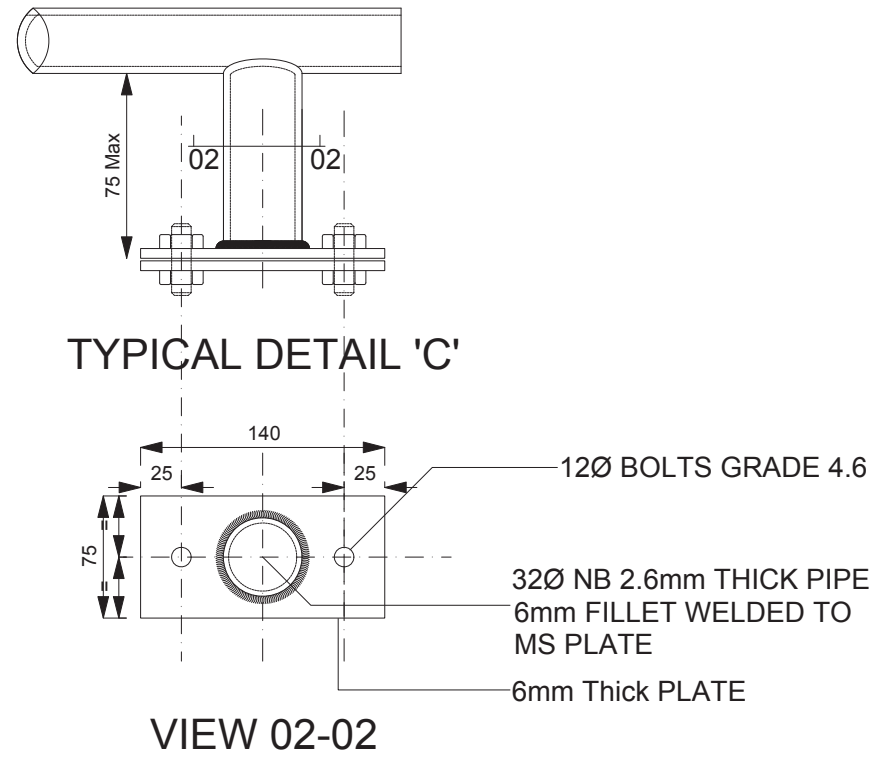
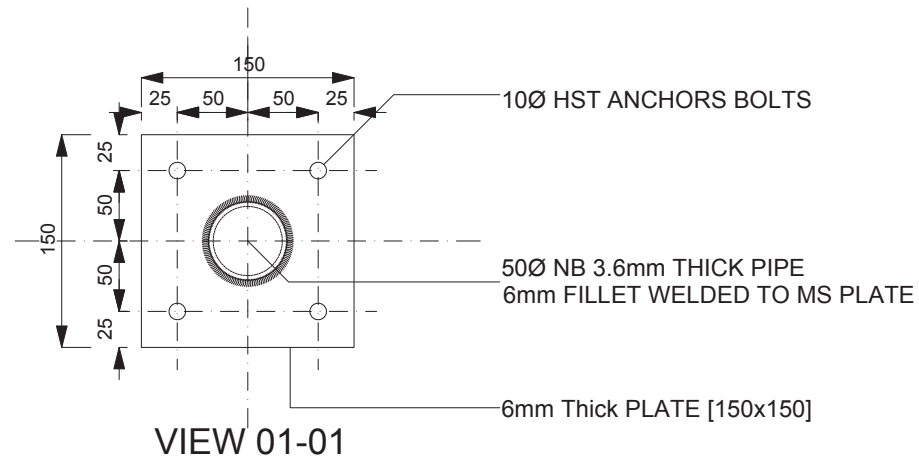
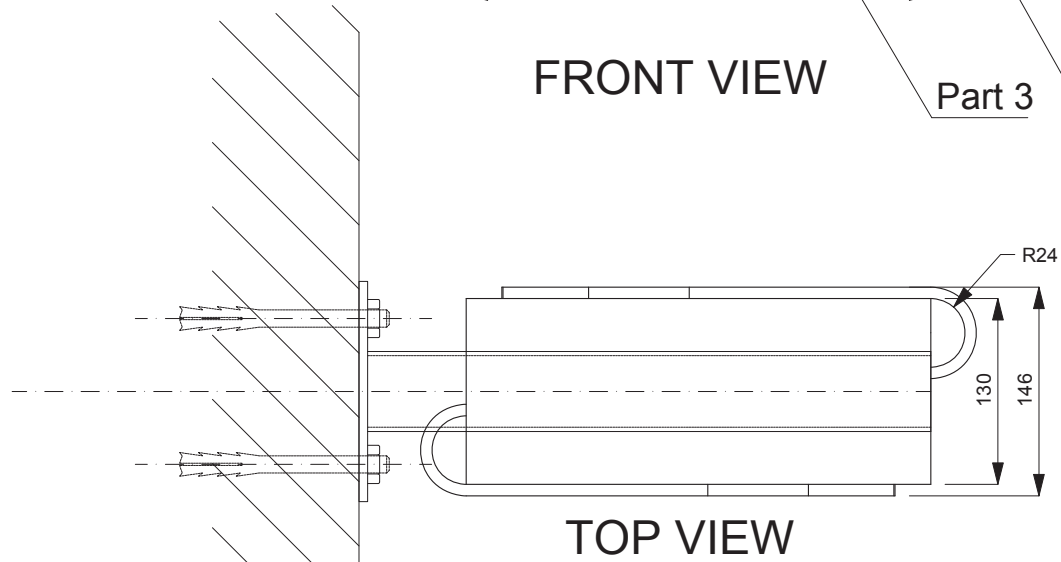
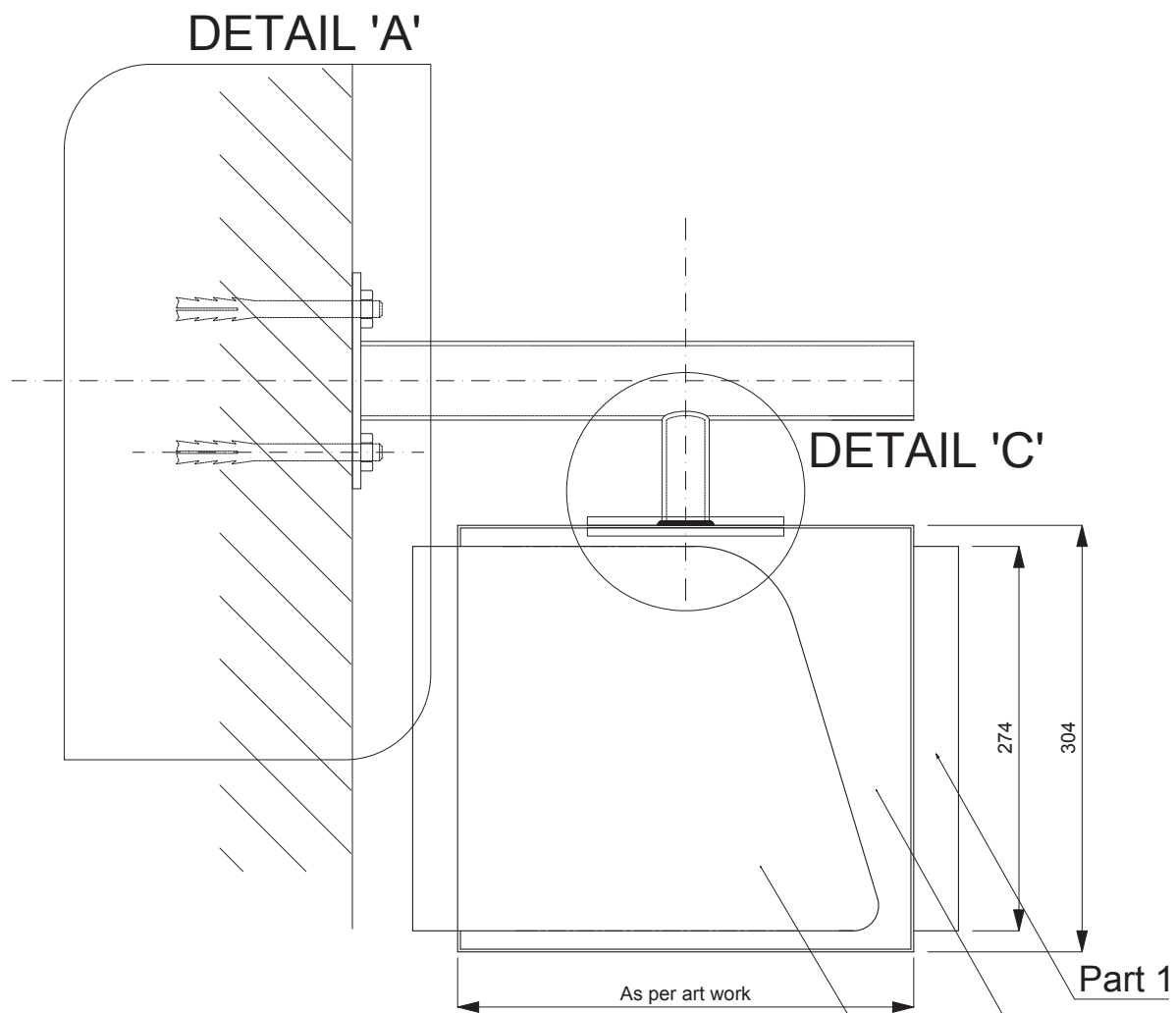
(Name and Designation)
Authorised Signatory for SGDC.

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ITPB ROAD WHITEFIELD,
BANGALORE-560048



| | | | |
|---------------------|---|----------------------------------|---|
| APPROVAL BY KMRL | KOCHI METRO RAIL PROJECT | | |
| | KOCHI METRO RAIL LIMITED | | |
| | SIGN NAME: Direction Sign, Projected double sided | | |
| DY CE | STATUS: TENDER (TEKM /TENDER) | |  |
| CE (D&C) | SCALE: STF | DRG.NO: TEKM-T3M3-301.1.5P-01 | |
| | DATE: 30.12.15 | DRAWN BY: Dinesh | |
| | REV.NO. 1 | CHECKED BY: Puneet | |

SIGNAGE & GRAPHICS



MATERIAL NOTES :

- Part 1:
- Sign Box .
 - 15mm thick 130mmwide aluminium extrusion.
 - Powder coated in RAL classic 7016 .
- Part 2:
- Sign Panel.
 - 8mm thick clear acrylic over which plotter cut vinyl is pasted .
- Part 3:
- Sign Panel.
 - 8mm thick clear acrylic turned to radius over which plotter cut vinyl is pasted.

GENERAL NOTES:

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OFFICE OF ORIGIN
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ITPB ROAD WHITEFIELD,
BANGALORE-560048



APPROVAL BY
KMRL

KOCHI METRO RAIL PROJECT

KOCHI METRO RAIL LIMITED

SIGN NAME: Direction Sign, Projected double sided

DY CE

STATUS: TENDER (TEKM /TENDER

SCALE: STF

DRG.NO: TEK-M-T3M3-301.1.6P -1

DATE: 30.12.15

DRAWN BY: Dinesh

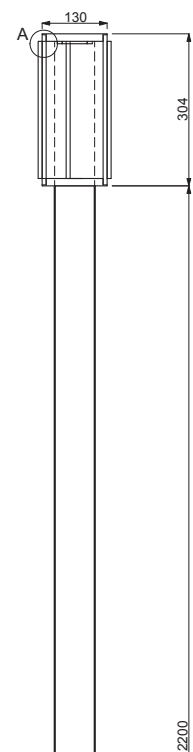
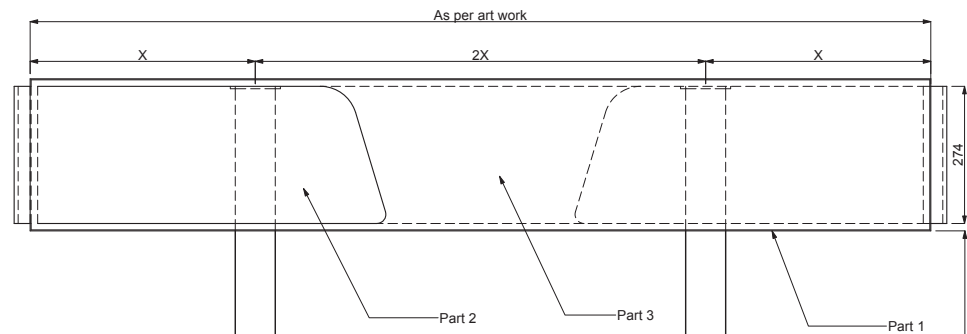
CE (D&C)

REV.NO. 1

CHECKED BY: Puneet



SIGNAGE&GRAPHICS



15mm Aluminium
extrusion frame

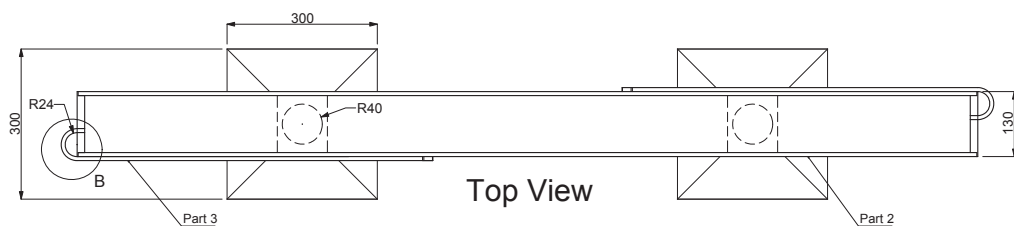
8mm acrylic pasted with
adhesive and flushed
to aluminium frame

8mm acrylic pasted
to 4mm acrylic

Detail A

Front View

Side View



15mm Aluminium
extrusion frame slotted
to insert acrylic

8mm acrylic bent and
inserted into frame

8mm acrylic pasted with
adhesive and flushed
to aluminium frame

Detail B

MATERIAL NOTES :

- Part 1: - Sign Box .
- 15mm thick 130mmwide aluminium
extrusion.

- Powder coated in RAL classic 7016 .
- Part 2: - Sign Panel.
- 8mm thick clear acrylic
over which plotter cut vinyl is pasted
- Part 3: - Sign Panel.
- 8mm thick clear acrylic turned to radius
over which plotter cut vinyl is pasted.
- Part 4 : - Post
- 80mm dia MS circular Hollow Section
- PU Painted color Grey G#
- Fixed With Foundation
- Part 5 : -Pedestal.
-300x300x150mm Sadarahalli stone.
-3 Line Finish
- PPC Poured to fix.
- Part 6 : -Foundation
-PPC Foundation as per stuctural design.

GENERAL NOTES:

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TATA ELXSI LIMITED
ITPB ROAD WHITEFIELD,
BANGALORE-560048



APPROVAL BY
KMRL

KOCHI METRO RAIL PROJECT

KOCHI METRO RAIL LIMITED

SIGN NAME: Post Mounted, Non illuminated

DY CE

STATUS: TENDER (TEKM /TENDER

SCALE: STF

DRG.NO:
TEKM-T3M3-301.1.7P-01


DATE: 30.12.15

DRAWN BY: Dinesh

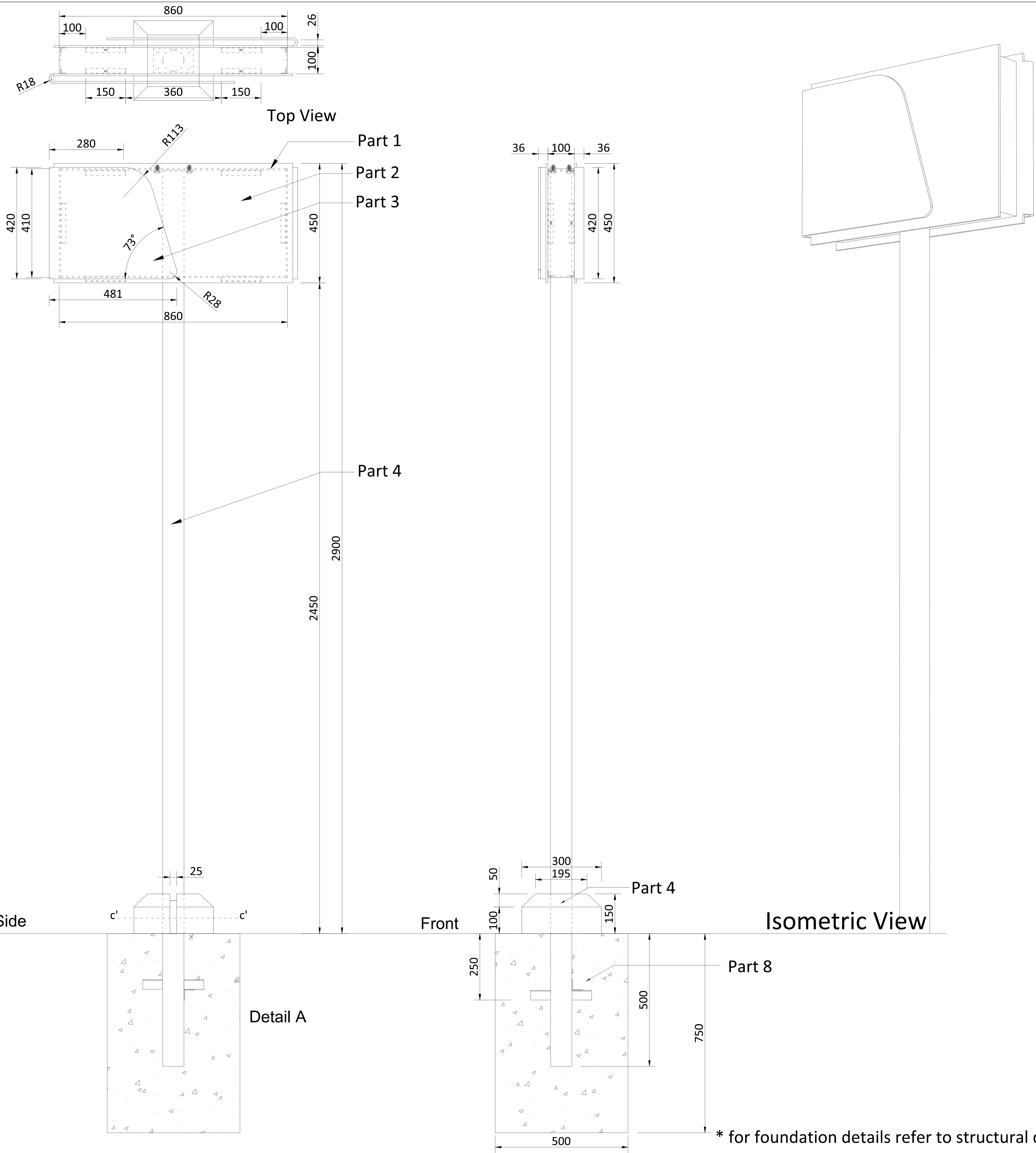
CE (D&C)

REV.NO. 1

CHECKED BY: Puneet


METRO

SIGNAGE & GRAPHICS



- MATERIAL NOTES :
- Part 1:** Sign panel, 5mm thick aluminum sheet power coated color RAL classic 7016.
- Part 2:** Sign panel, 5mm thick aluminum sheet power coated color PANTONE 2768 C wrap vinyl over it .
- Part 3:** Sign panel, 5mm thick aluminum sheet power coated color PANTONE 382 C wrap vinyl over it .
- Part 4:** - Post 80mm dia MS Circular Hollow Section PU Painted color RAL classic 7016 . Fixed With Foundation .

- GENERAL NOTES:
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| REV NO | DATE | DESCRIPTION | SIGN |

SIGNAGE AND GRAPHICS DESIGN CONSULTANT

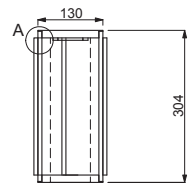
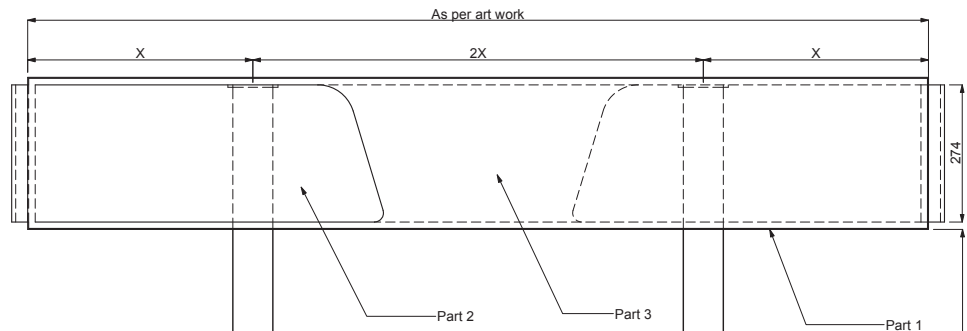
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(Name and Designation)
Authorised Signatory for SGDC.

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| OFFICE OF ORIGIN TATA ELXSI LIMITED ITPB ROAD WHITEFIELD, BANGALORE-560048 | |
|---|--|

| | | | | |
|---------------------|---|----------------------------------|--|--|
| APPROVAL BY KMRL | KOCHI METRO RAIL PROJECT | | |  METRO |
| DY CE | KOCHI METRO RAIL LIMITED | | | |
| | SIGN NAME: DIRECTION VICINITY SIGN , POST MOUNTED | | | |
| | STATUS: TENDER (TEKM /TENDER | | | |
| CE (D&C) | SCALE: STF | DRG.NO: TEKM-T3M3-301.1.8P -1 | | |
| | DATE: 30.12.15 | DRAWN BY: Deepak | | |
| | REV.NO. A | CHECKED BY: PBS | | |

* for foundation details refer to structural dwg

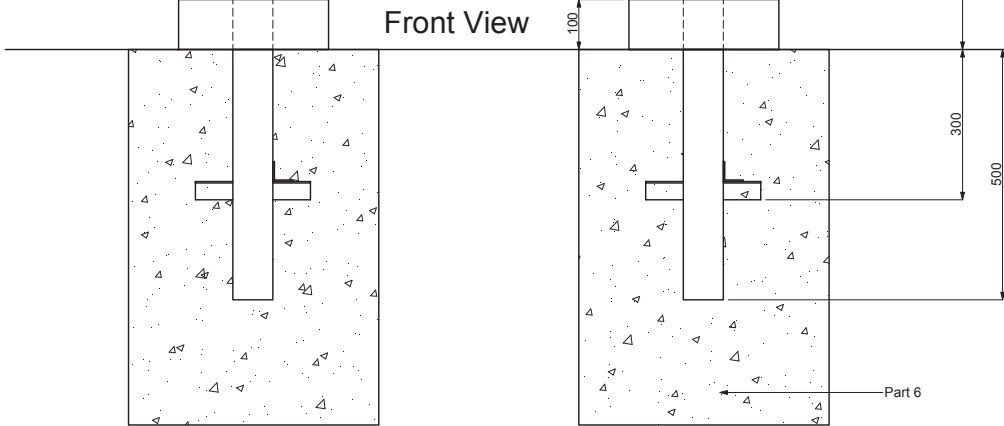


15mm Aluminium
extrusion frame

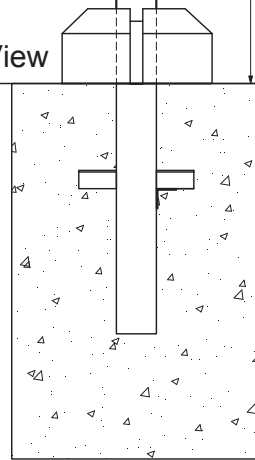
8mm acrylic pasted with
adhesive and flushed
to aluminium frame

8mm acrylic pasted
to 4mm acrylic

Detail A



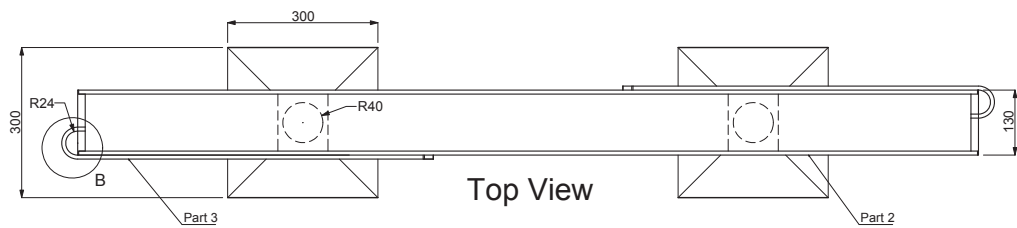
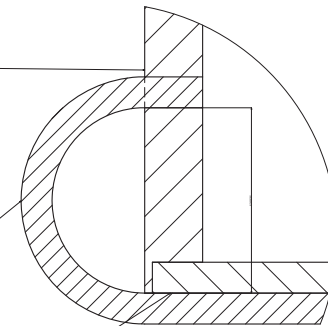
Side View



15mm Aluminium
extrusion frame slotted
to insert acrylic

8mm acrylic bent and
inserted into frame

8mm acrylic pasted with
adhesive and flushed
to aluminium frame



MATERIAL NOTES :

- Part 1: - Sign Box .
- 15mm thick 130mmwide aluminium
extrusion.

- Powder coated in RAL classic 7016 .
- Part 2: - Sign Panel.
- 8mm thick clear acrylic
over which plotter cut vinyl is pasted
- Part 3: - Sign Panel.
- 8mm thick clear acrylic turned to radius
over which plotter cut vinyl is pasted.
- Part 4 : - Post
- 80mm dia MS circular Hollow Section
- PU Painted color Grey G#
- Fixed With Foundation
- Part 5 : -Pedestal.
-300x300x150mm Sadarahalli stone.
-3 Line Finish
- PPC Poured to fix.
- Part 6 : -Foundation
-PPC Foundation as per stuctural design.

GENERAL NOTES:

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- ALL DIMENSIONS ARE TO BE READ AND NOT MEASURED.
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| REV NO | DATE | DESCRIPTION | SIGN |
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SIGNAGE AND GRAPHICS DESIGN CONSULTANT

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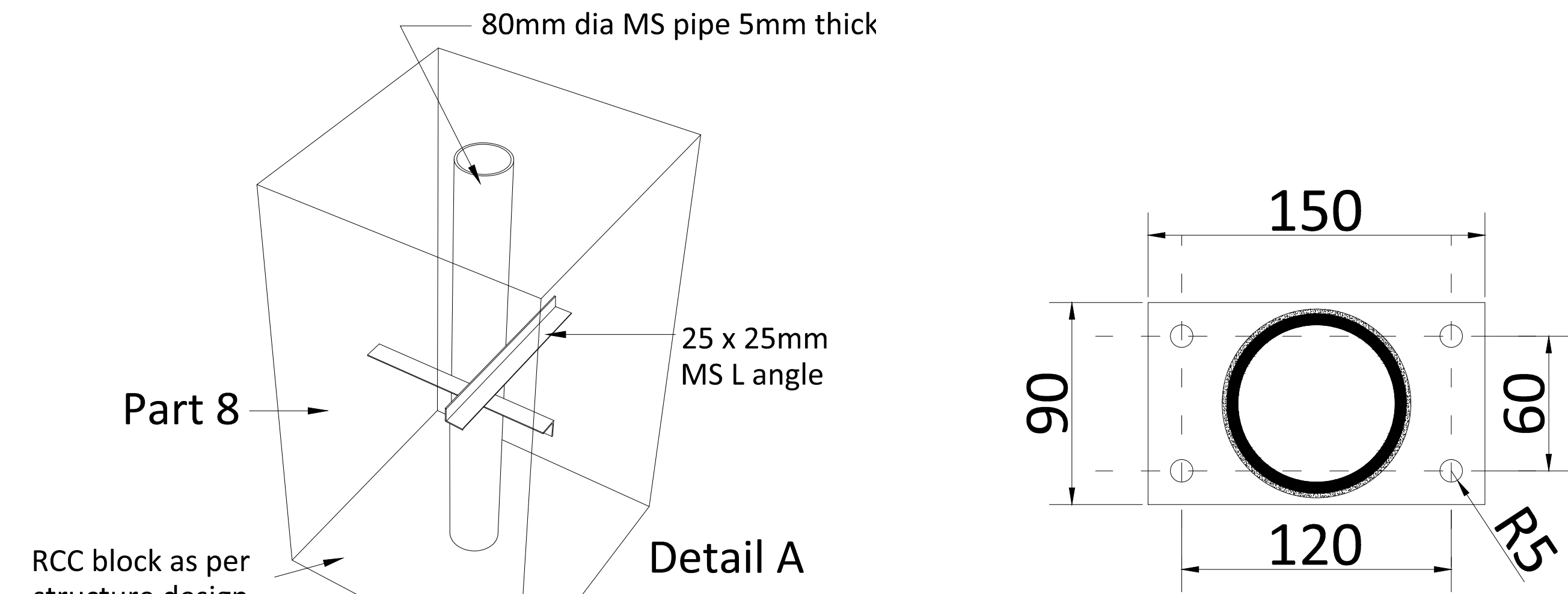
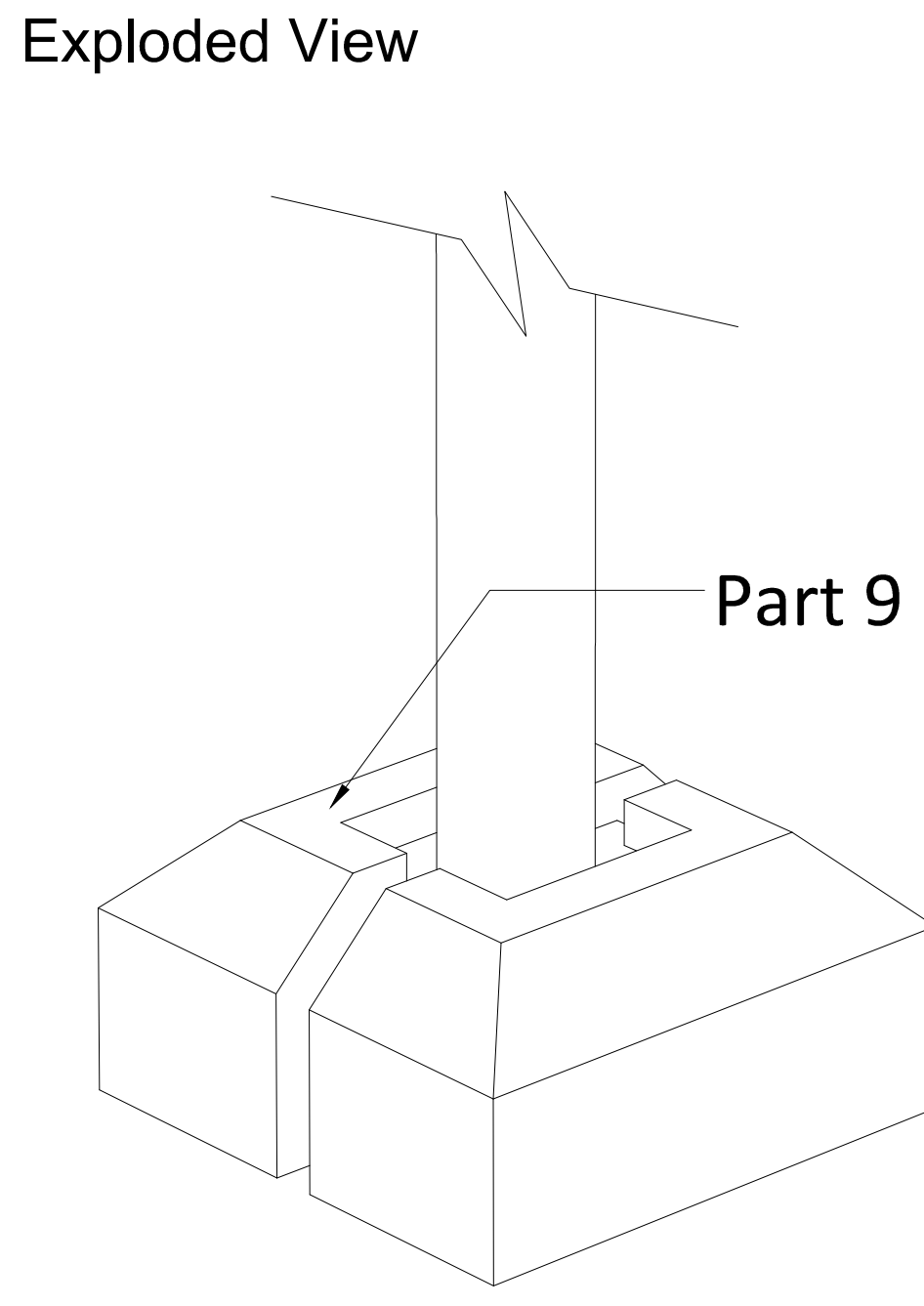
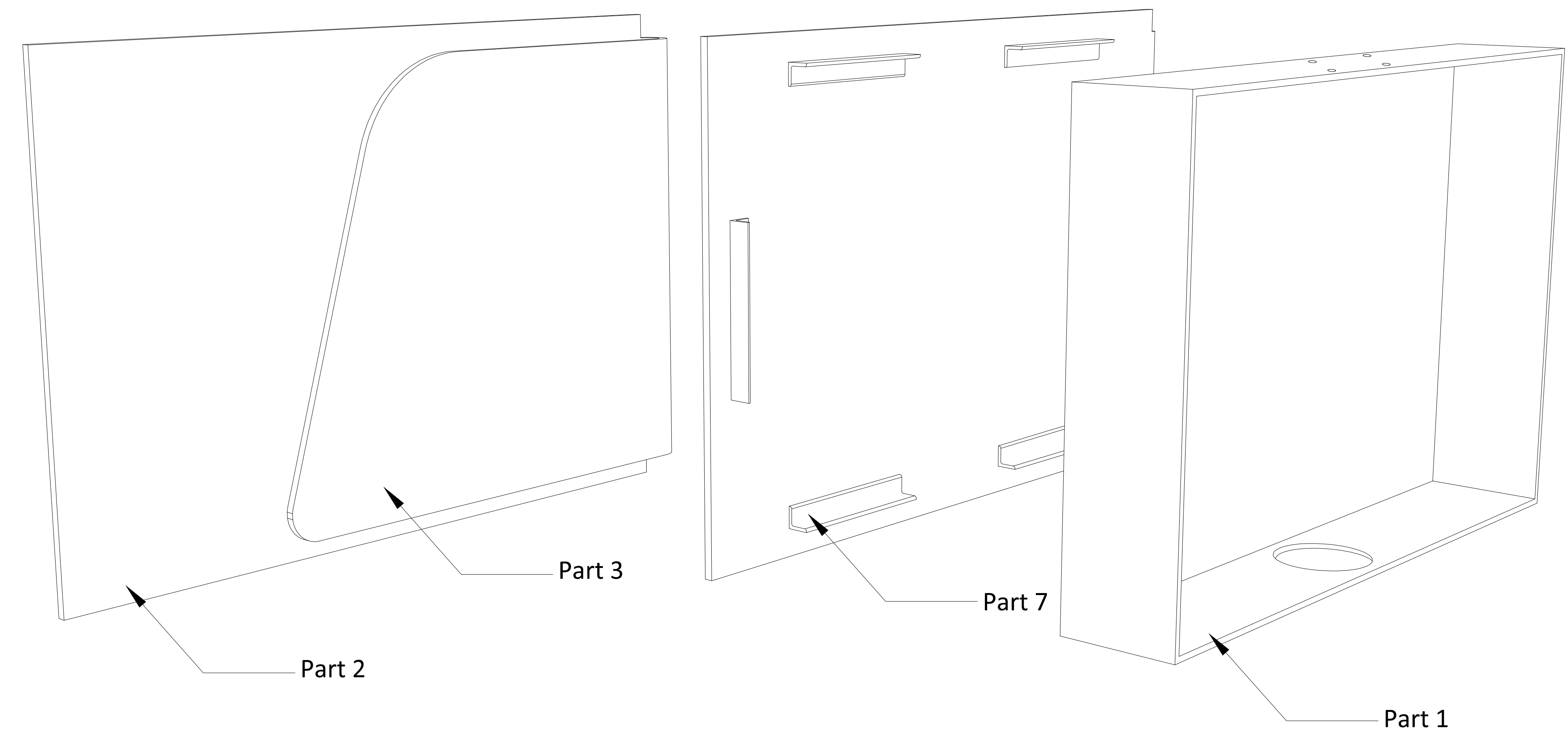
(Name and Designation)
Authorised Signatory for SGDC.

OFFICE OF ORIGIN
TATA ELXSI LIMITED
ITPB ROAD WHITEFIELD,
BANGALORE-560048

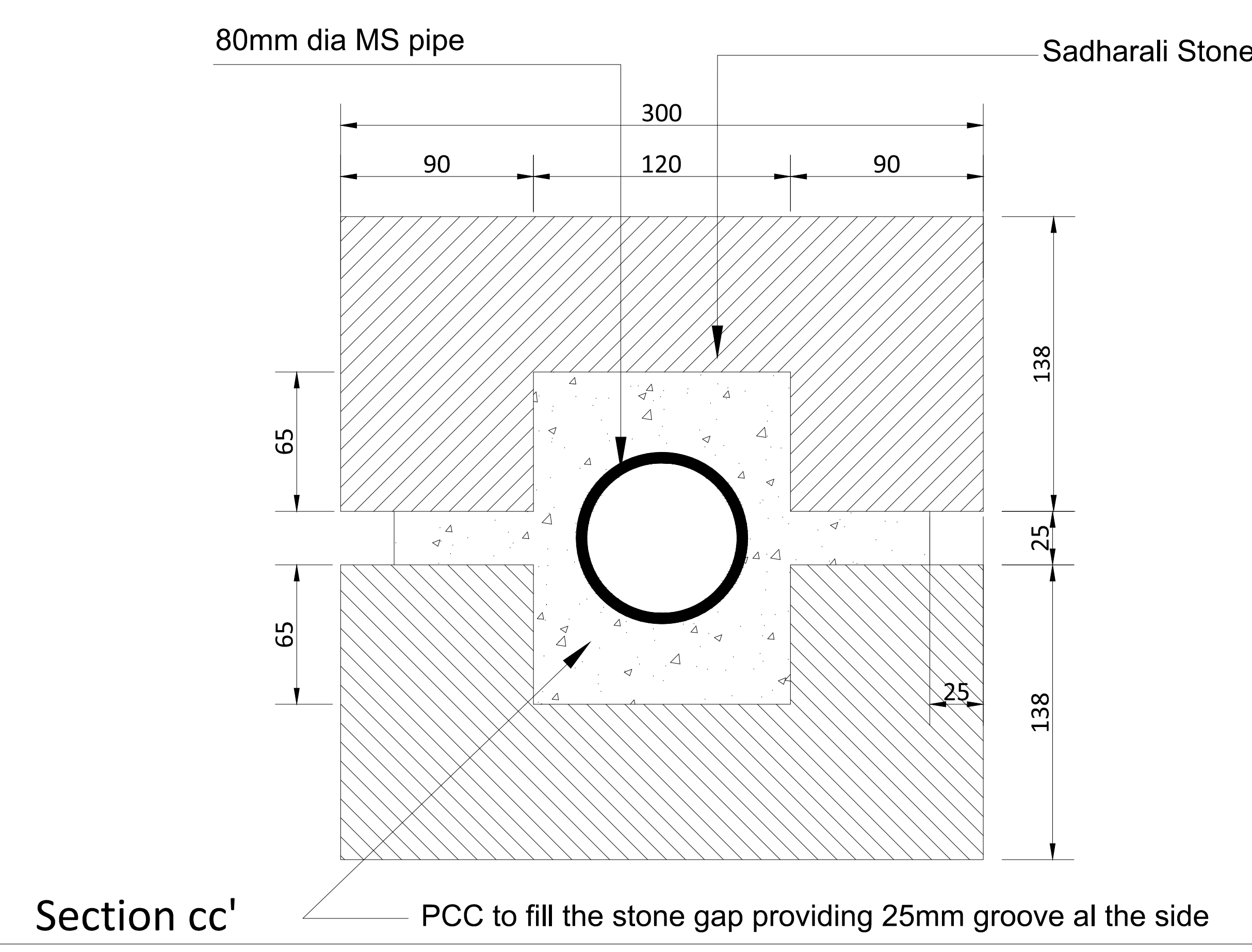
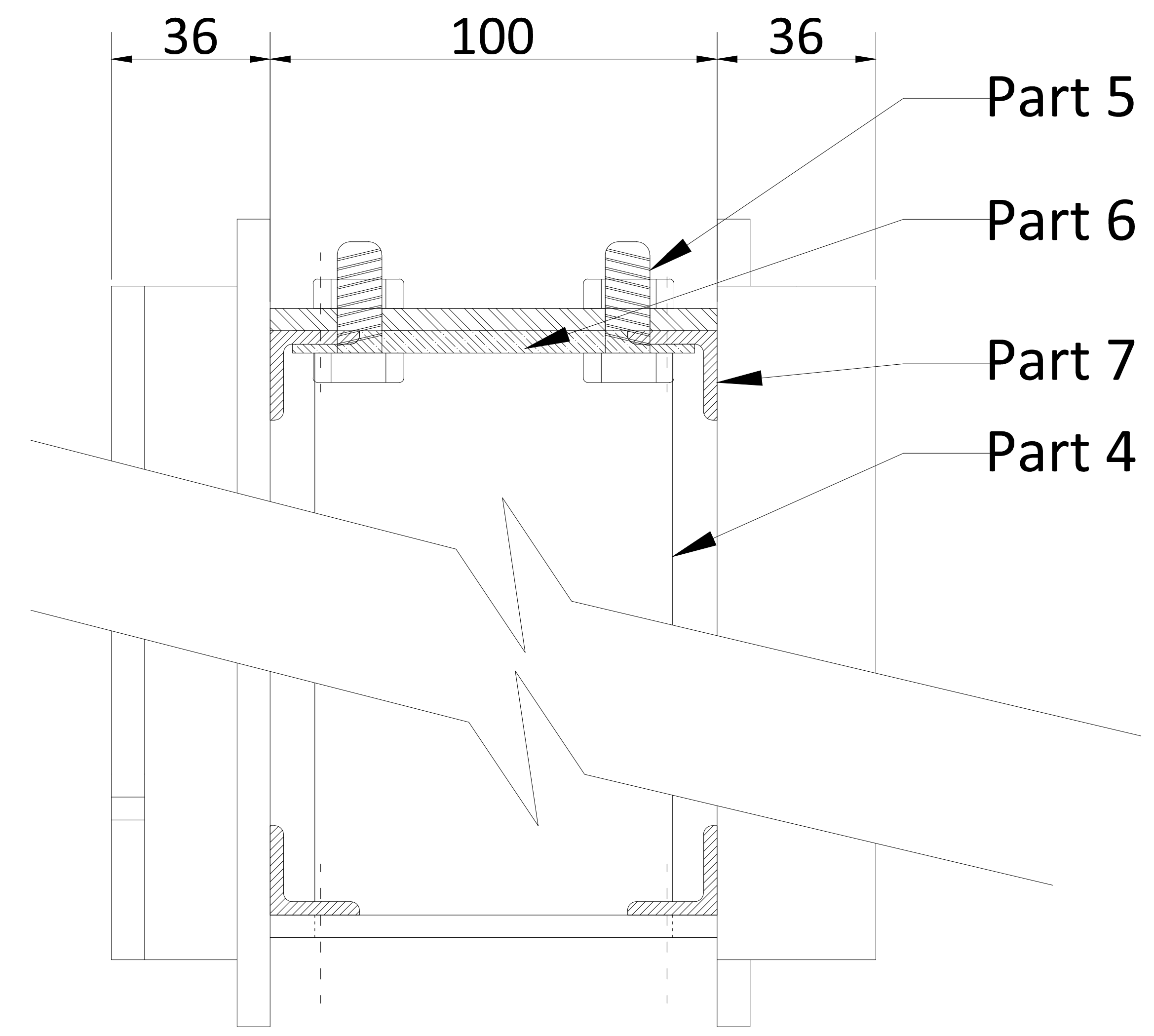
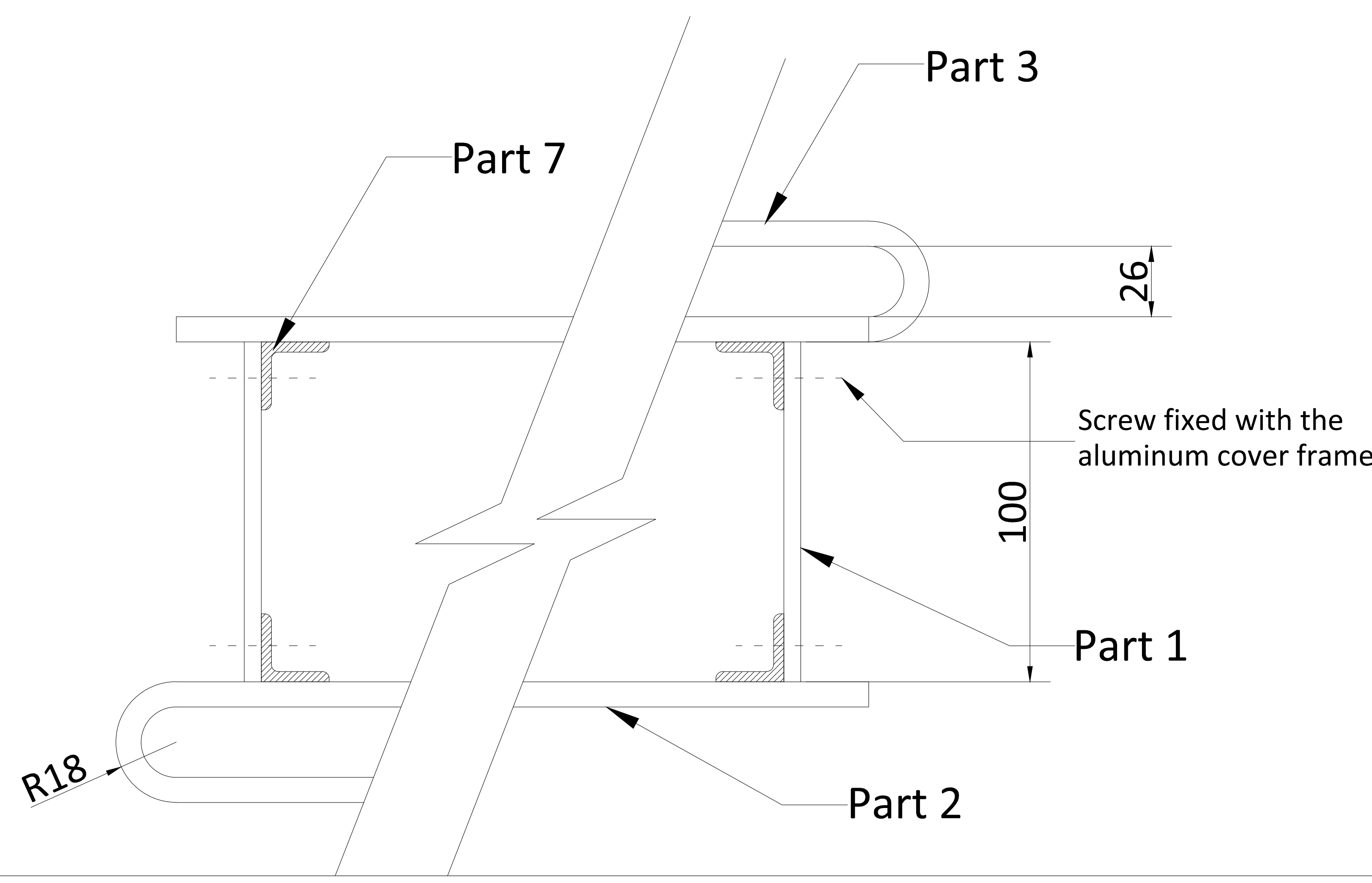


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|---------------------|--|---|--------------------|-----------------------------------|
| APPROVAL BY KMRL | KOCHI METRO RAIL PROJECT | | SIGNAGE & GRAPHICS | |
| | KOCHI METRO RAIL LIMITED | | | |
| | SIGN NAME: Post Mounted, Non illuminated | | | |
| DY CE | STATUS: TENDER (TEKM /TENDER |  | | |
| CE (D&C) | SCALE: STF | | | DRG.NO: TEKM-T3M3-301.1.9 P-01 |
| | DATE: 30.12.15 | | | DRAWN BY: Dinesh |
| | REV.NO. 1 | | | CHECKED BY: Puneet |





Post mounting plate on box frame



- MATERIAL NOTES :**
- Part 1:** Sign panel, 5mm thick aluminum sheet power coated color RAL classic 7016.
- Part 2:** Sign panel, 5mm thick aluminum sheet power coated color PANTONE 2768 C wrap vinyl over it .
- Part 3:** Sign panel, 5mm thick aluminum sheet power coated color PANTONE 382 C wrap vinyl over it .
- Part 4:** - Post 80mm dia MS Circular Hollow Section PU Painted color RAL classic 7016 . Fixed With Foundation .
- Part 5:** M10 bolt for mounting box frame
- Part 6:** 150mm X 90mm X 5mm MS plate welded to 80mm MS circular Hollow section PU Painted color RAL classic 7016.
- Part 7:** 20X20X3mm thick equal L angle aluminum extrusion welded to sign panel powder coated color pantone 2768 C .
- Part 8:** Foundation PPC Foundation as per structural design
- Part 9:** Pedestal 300X300X150mm Sadarahalli stone . 3 Line Finish . PPC Poured to Fix .

- GENERAL NOTES:**
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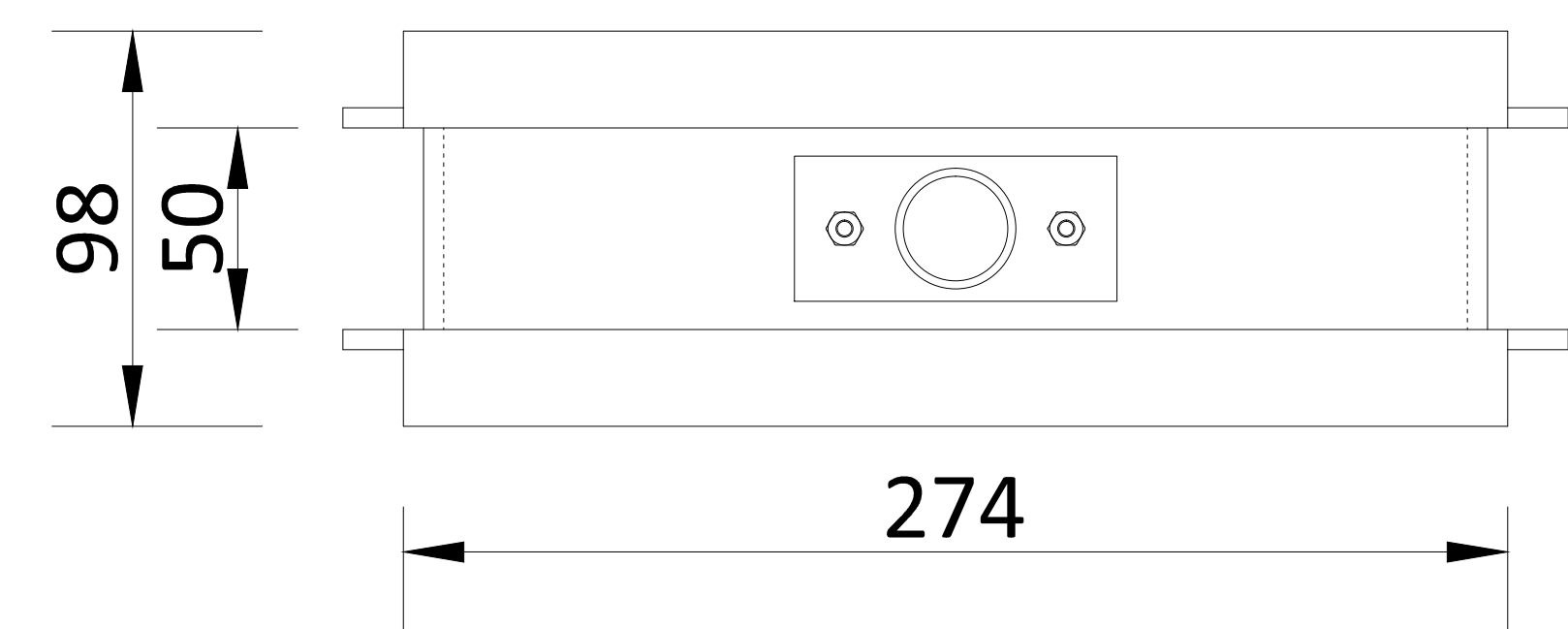
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SIGNAGE AND GRAPHICS DESIGN CONSULTANT

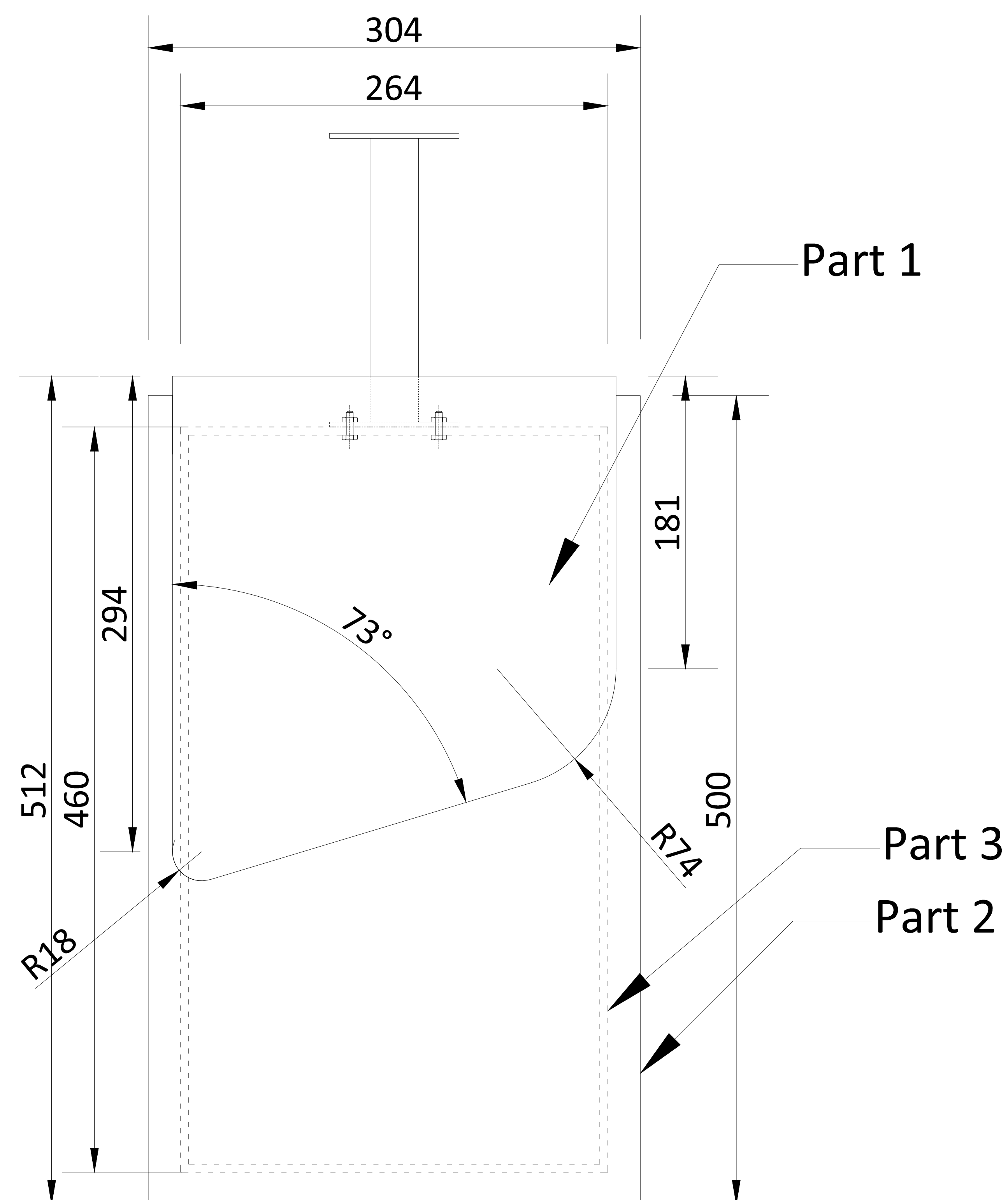
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| (Name and Designation) Authorised Signatory for SGDC. | |
| OFFICE OF ORIGIN TATA ELXSI LIMITED ITPB ROAD WHITEFIELD, BANGALORE-560048 | |

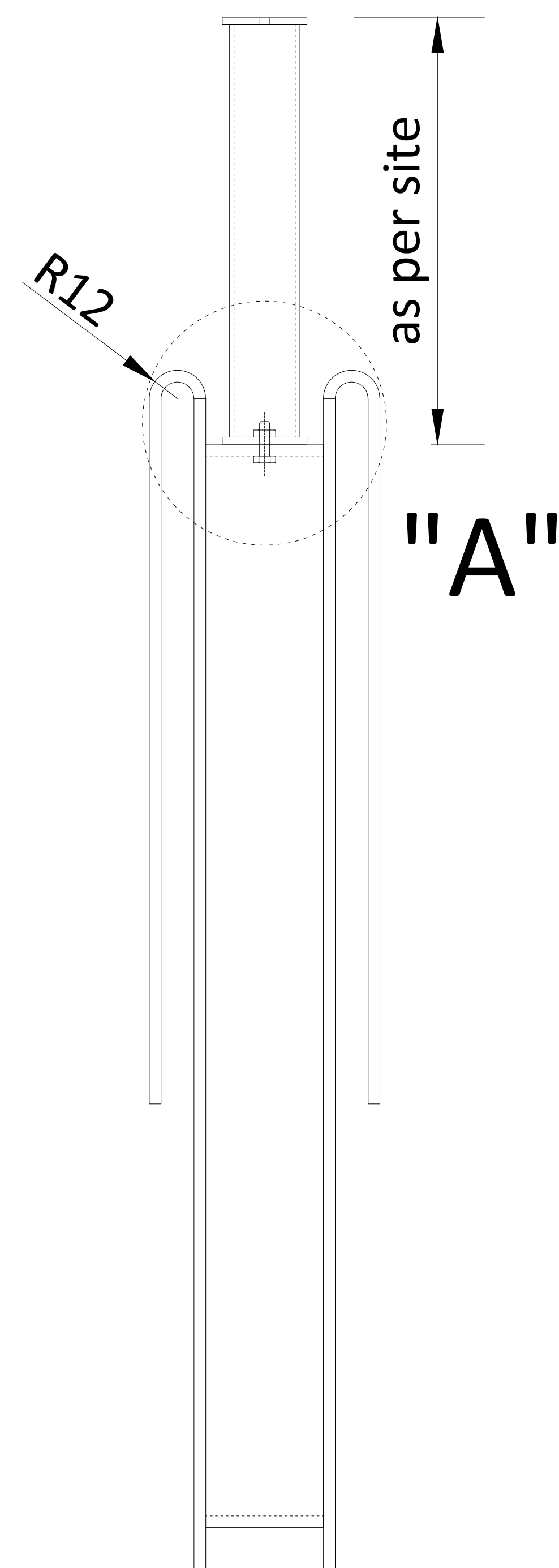
| | | | |
|---------------------|---|--------------------------------|--|
| APPROVAL BY KMRL | KOCHI METRO RAIL PROJECT | | |
| | KOCHI METRO RAIL LIMITED | | |
| DY CE | SIGN NAME: DIRECTION VICINITY SIGN , POST MOUNTED | | |
| | STATUS: TENDER (TEKM /TENDER) | | |
| CE (D&C) | SCALE: STF | DRG.NO: TEK-M-T3M3-301.1.8P -2 | |
| | DATE: 30.12.15 | DRAWN BY: Deepak | |
| | REV.NO. A | CHECKED BY: PBS | |



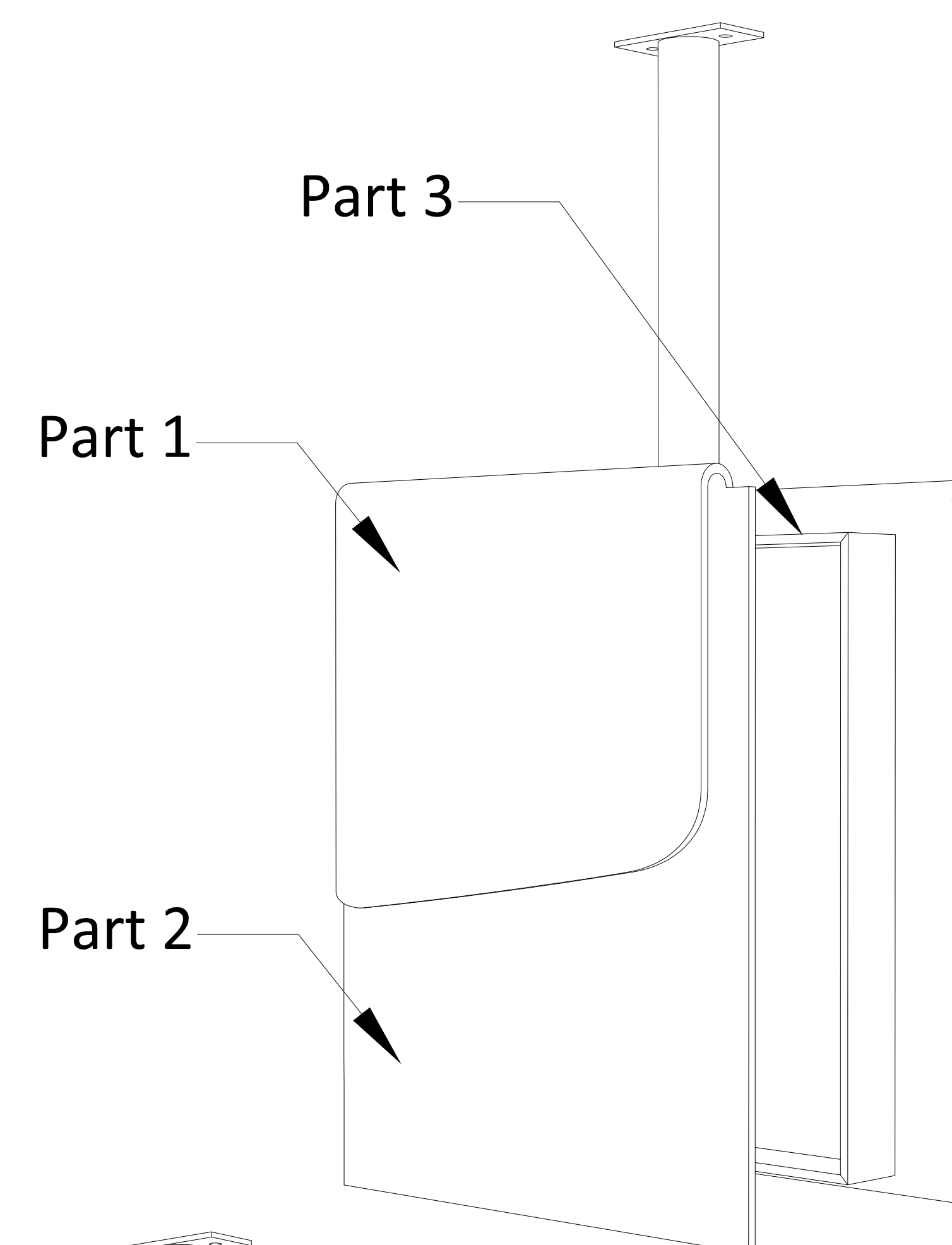
Top View



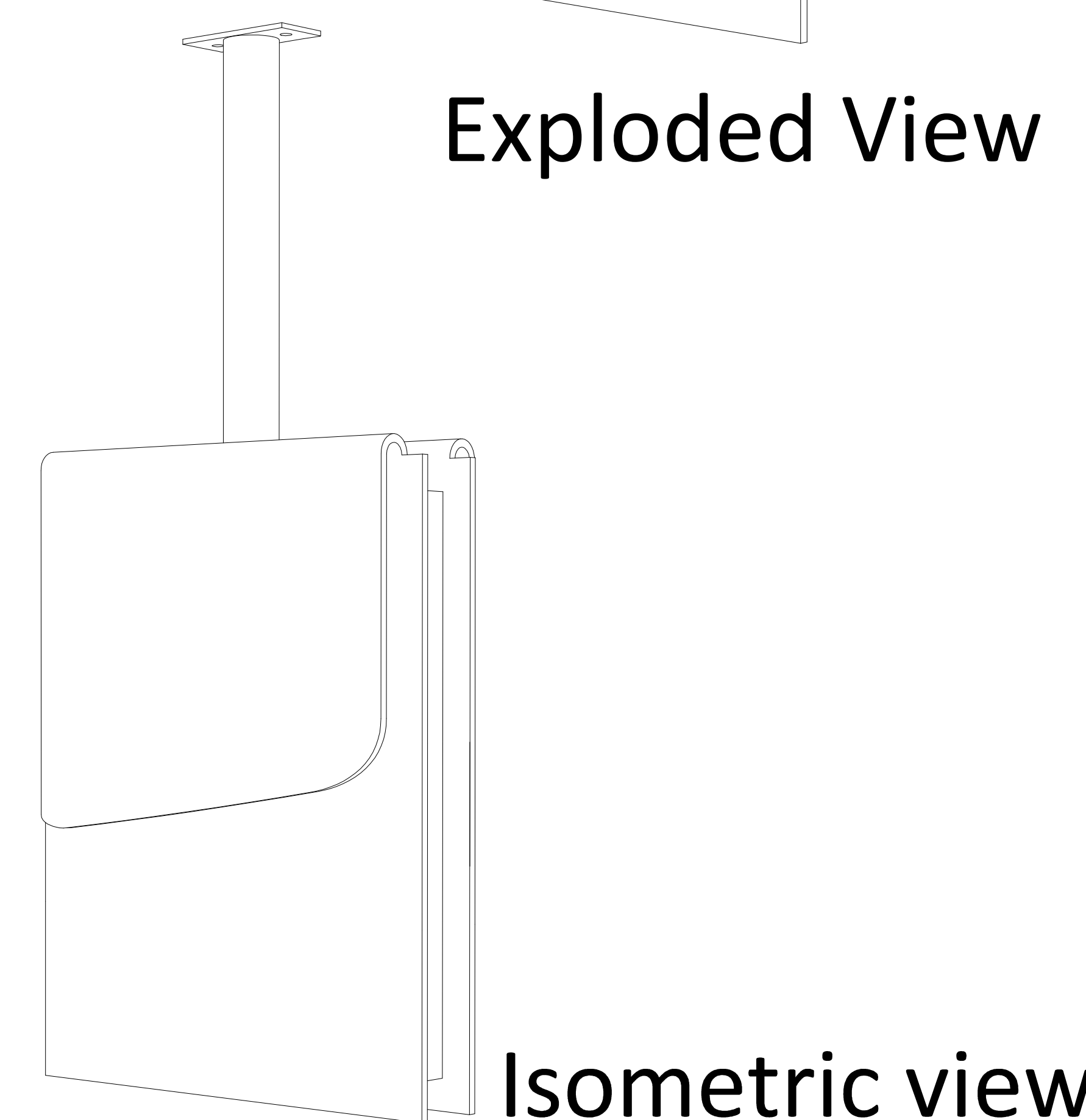
Front View



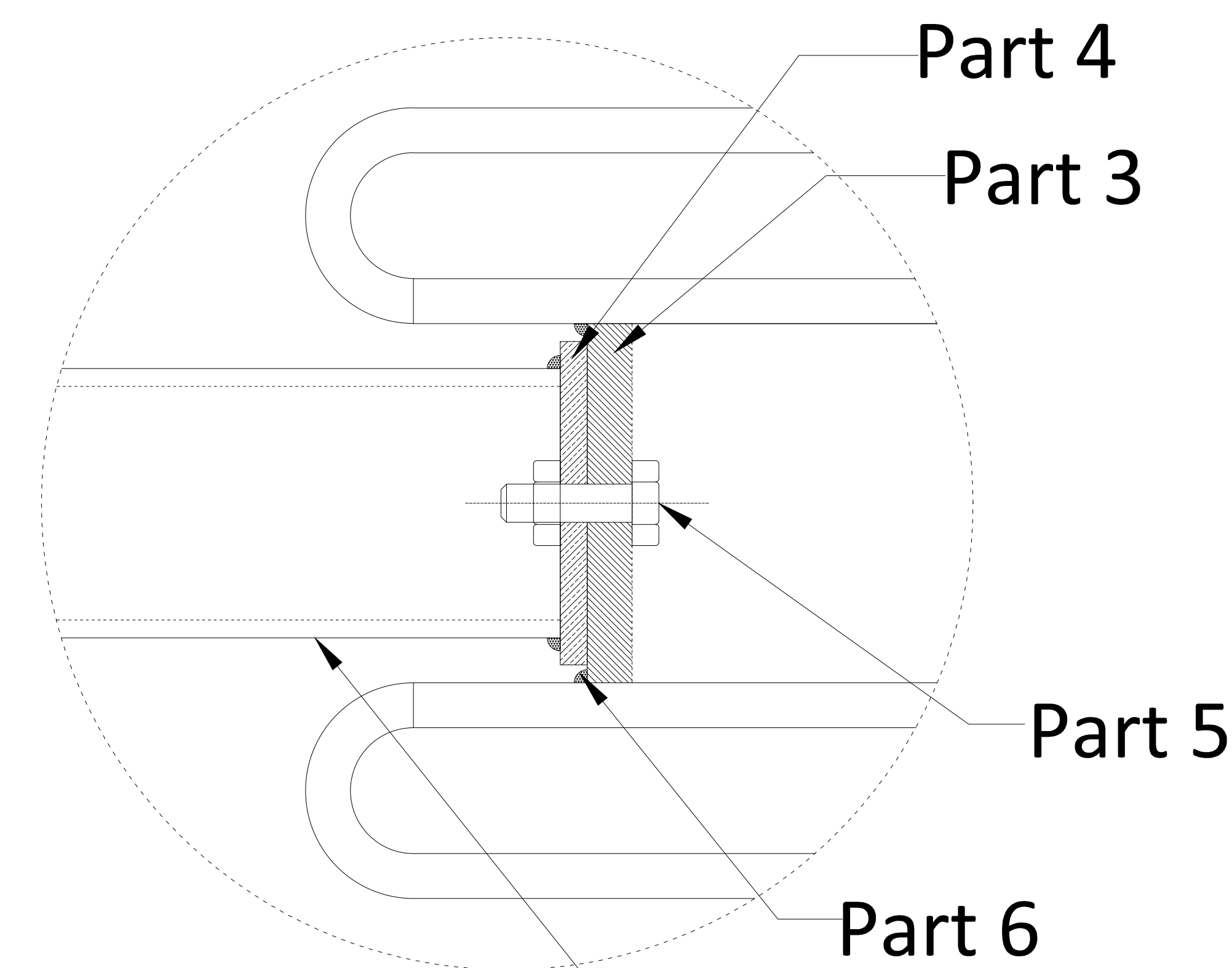
Side View



Exploded View



Isometric view



DETAIL "A"

MATERIAL NOTES :

- Part 1:** Sign panel, 5mm thick aluminum sheet power coated color PANTONE 382 C wrap vinyl over it .
- Part 2:** Sign panel, 5mm thick aluminum sheet power coated color PANTONE 2768 C wrap vinyl over it .
- Part 3:** 50mm depth 3mm thick aluminum sheet welded to Part 1 cleat powder coated color RAL classic 7016.
- Part 4:** 46 X 80 X 3mm thick MS plate bolted to Part 2
- Part 5:** M 15 Chrome bolt
- Part 6:** Part 2 and Part 3 Aluminum welding
- Part 7:** 40 mm Dia 2mm thick MS Pipe welded to 46 X 80 X 3mm thick MS plate cleat powder coated color RAL classic 7016.

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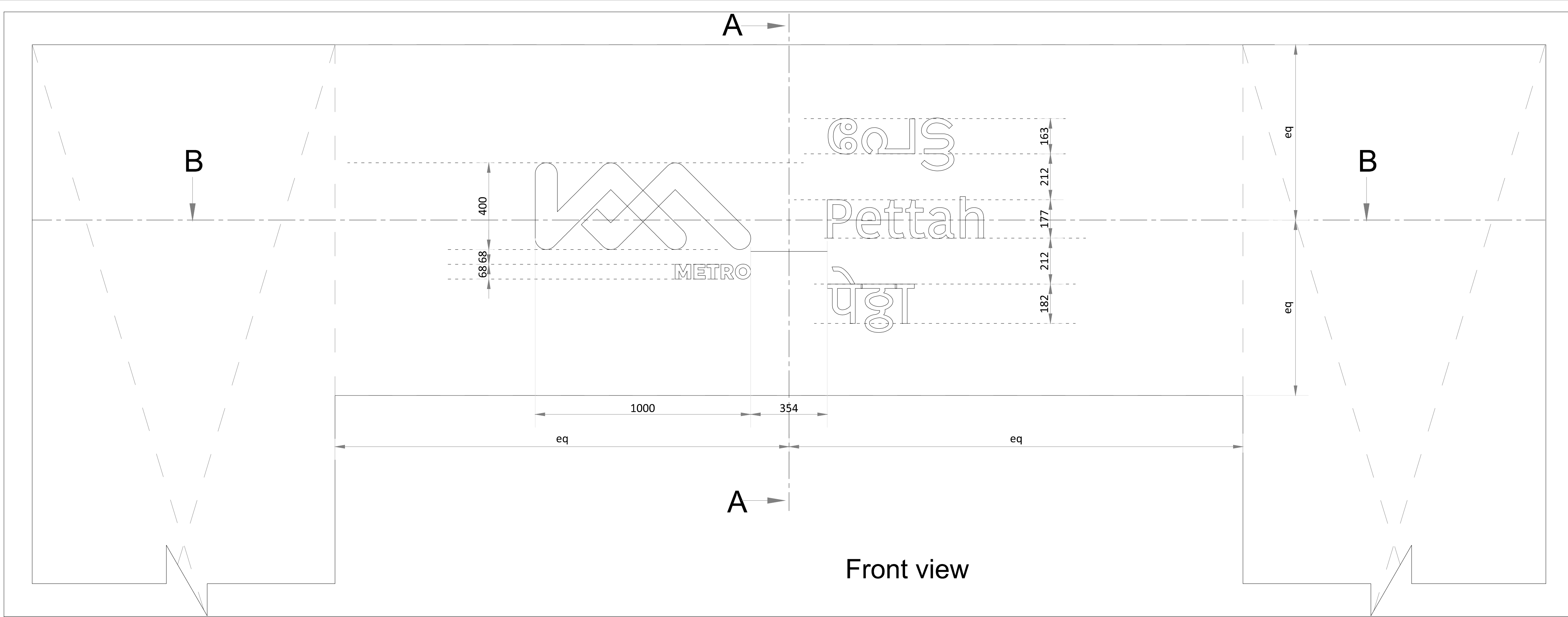
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(Name and Designation)
Authorised Signatory for SGDC.

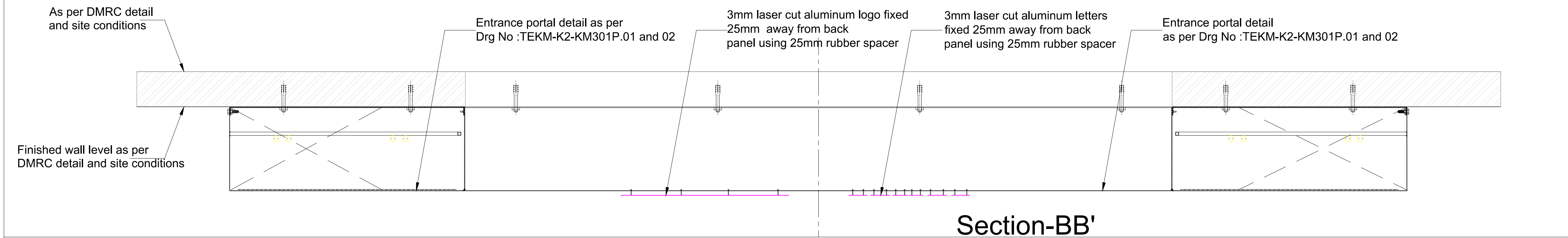
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TATA ELXSI LIMITED
ITPB ROAD WHITEFIELD,
BANGALORE-560048



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|---------------------|--------------------------------------|--------------------------------|---|------------------|
| APPROVAL BY KMRL | KOCHI METRO RAIL PROJECT | | | SIGNAGE&GRAPHICS |
| | KOCHI METRO RAIL LIMITED | | | |
| | SIGN NAME: LOCATION SIGN , SUSPENDED | | | |
| DY CE | STATUS: TENDER (TEKM /TENDER | |  | |
| | SCALE: STF | DRG.NO: TEK-M-T3M3-302.1.1P-01 | | |
| | DATE: 30.12.15 | DRAWN BY: Deepak | | |
| CE (D&C) | REV.NO. A | CHECKED BY: PBS | | |



Front view



Section-BB'



Section-AA'

MATERIAL NOTES :

- GENERAL NOTES:
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| REV NO | DATE | DESCRIPTION | SIGN |
|--------|------|-------------|------|
| | | | |

SIGNAGE AND GRAPHICS DESIGN CONSULTANT

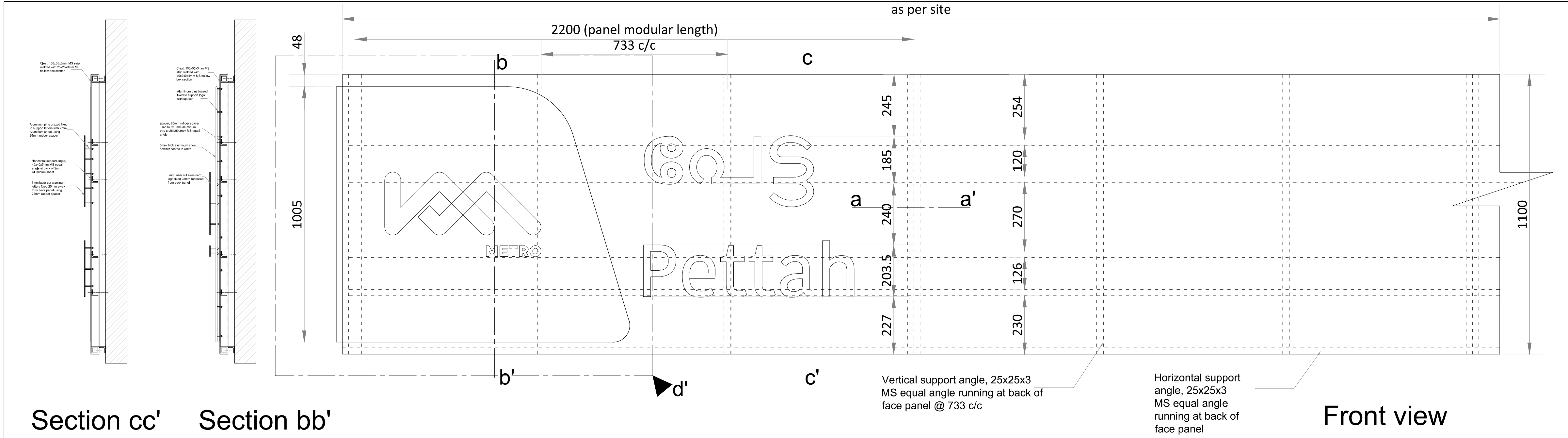
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| (Name and Designation) Authorised Signatory for SGDC. | |
| OFFICE OF ORIGIN TATA ELXSI LIMITED ITPB ROAD WHITEFIELD, BANGALORE-560048 | |

| | | |
|---------------------|---|-------------------------------|
| APPROVAL BY KMRL | KOCHI METRO RAIL PROJECT | |
| | KOCHI METRO RAIL LIMITED | |
| DY CE | SIGN NAME: STATION ENTRANCE NAME SIGN (ON PORTAL) | |
| | STATUS: TENDER (TEKM /TENDER) | |
| CE (D&C) | SCALE: STF | DRG.NO: TEK-M-T3M3-302.2 P -1 |
| | DATE: 29.12.15 | DRAWN BY: Janaki |
| | REV.NO. A | CHECKED BY: PBS |

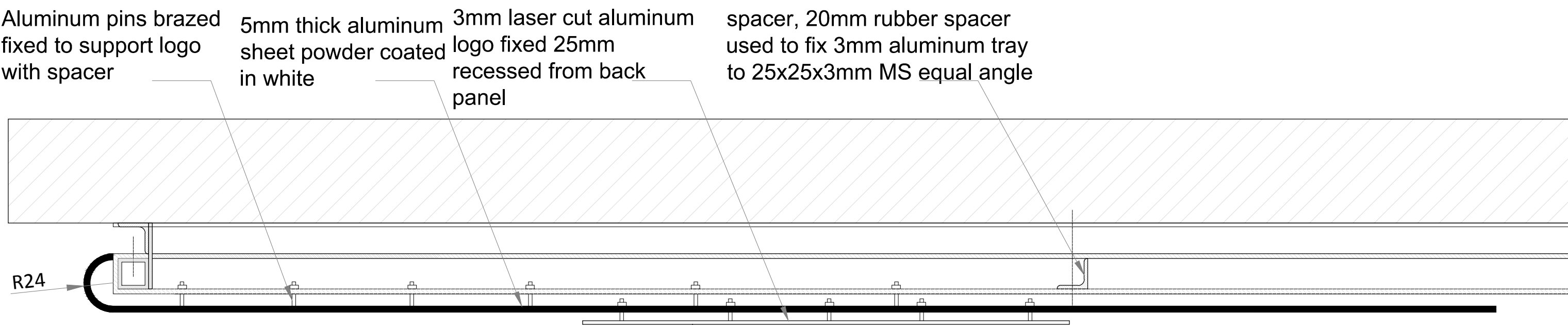


SIGNAGE&GRAPHICS

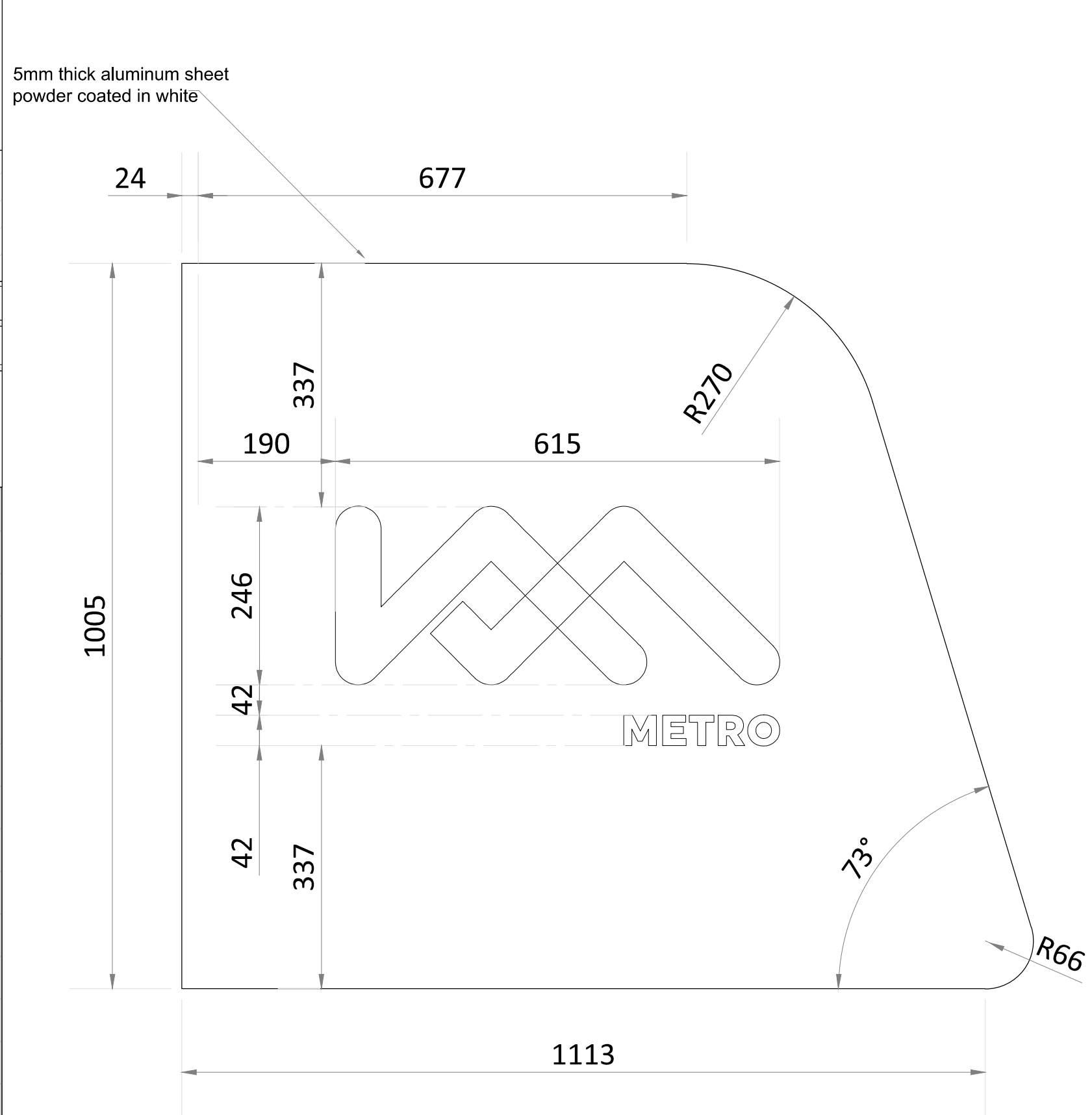


Section cc' Section bb'

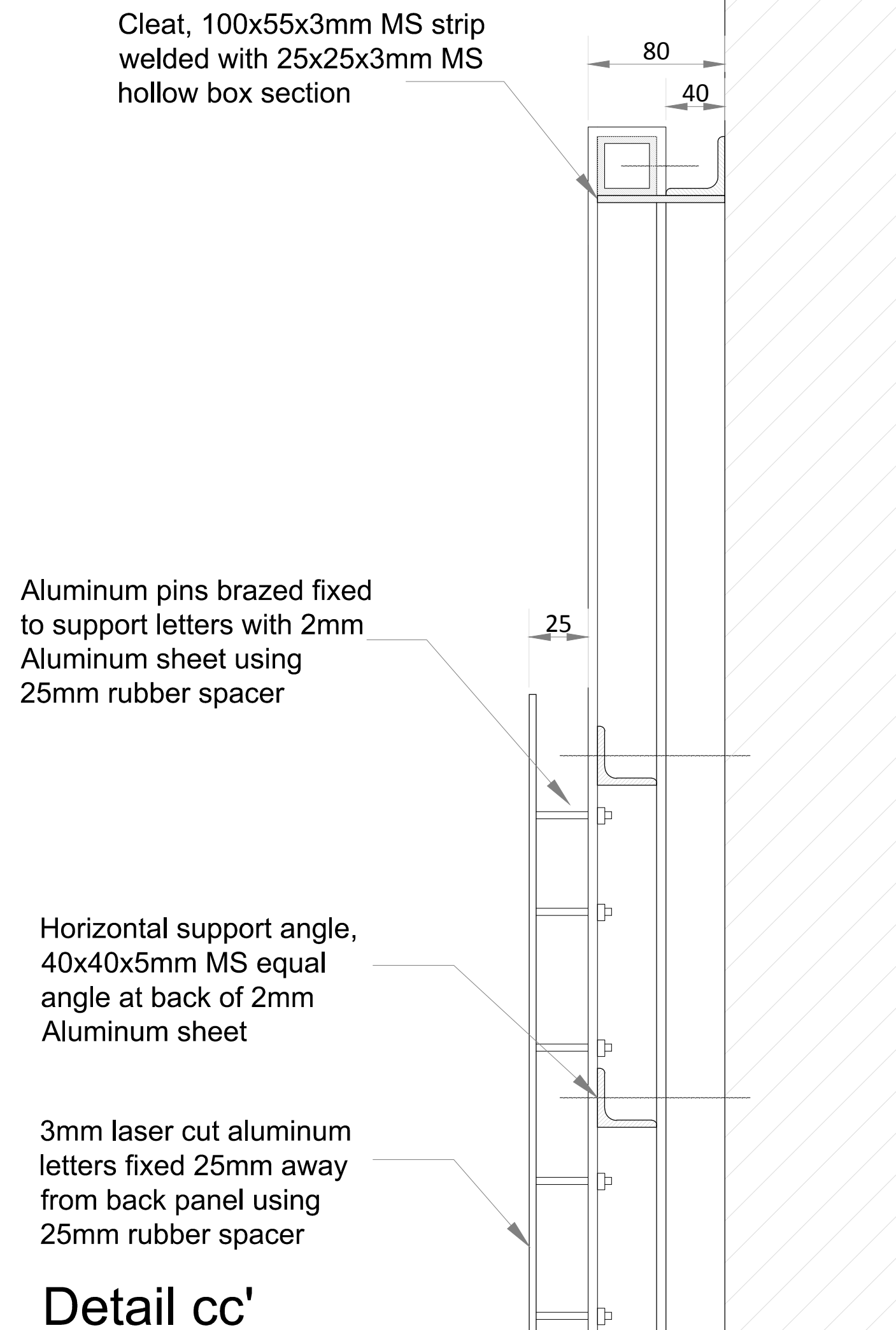
Front view



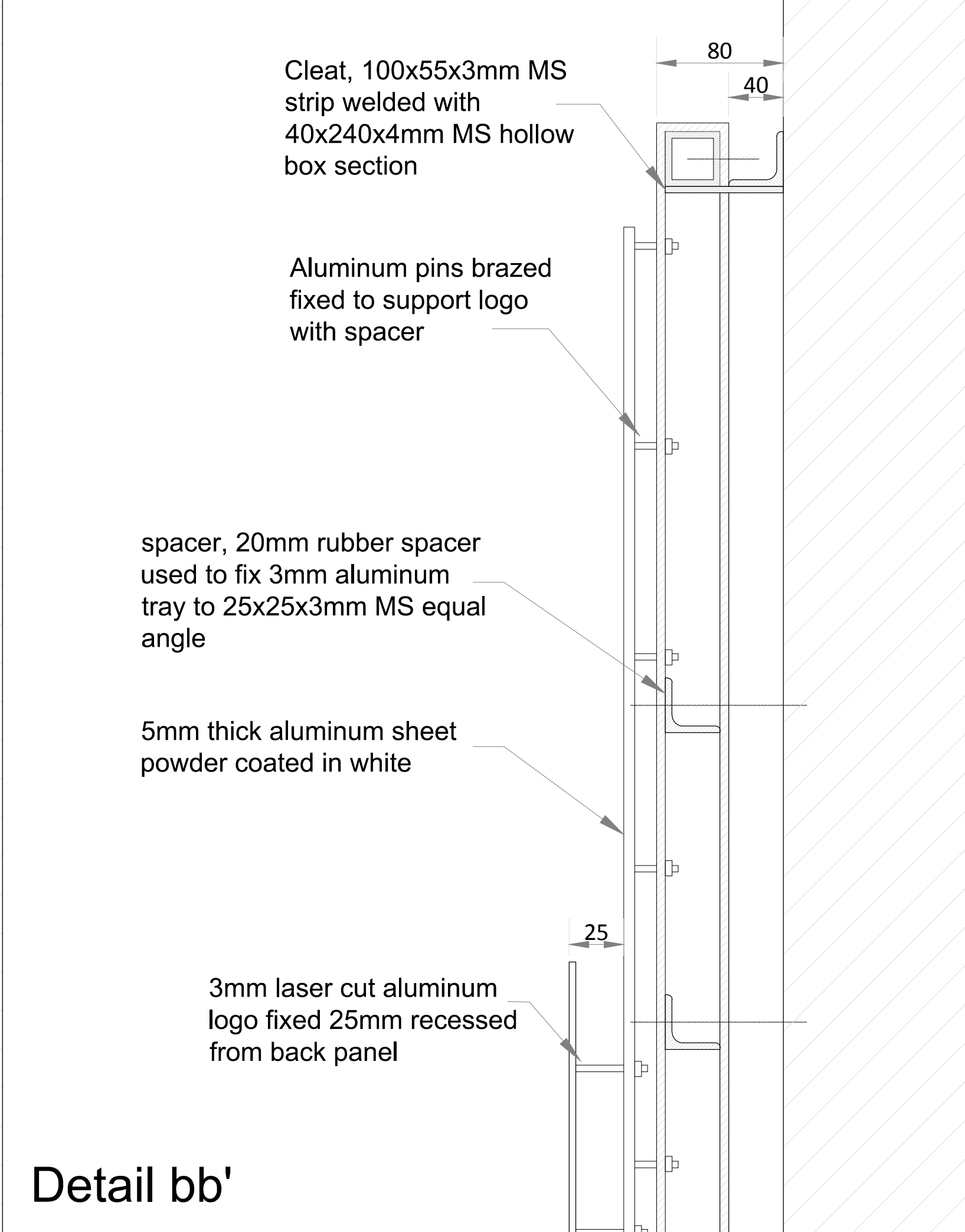
Detail - d'



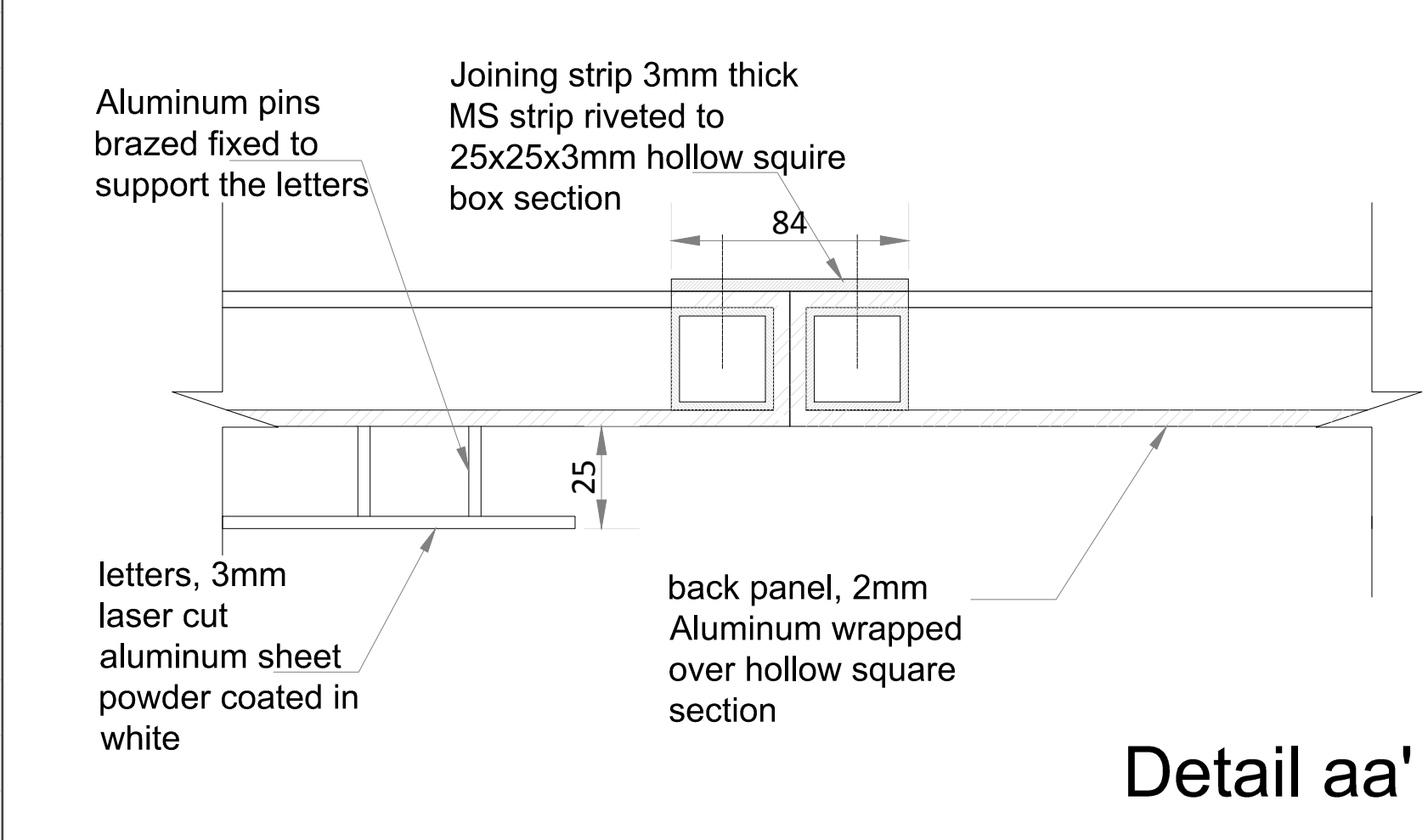
Logo Panel detail



Detail cc'



Detail bb'



Detail aa'

MATERIAL NOTES :

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| REV NO | DATE | DESCRIPTION | SIGN |
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SIGNAGE AND GRAPHICS DESIGN CONSULTANT

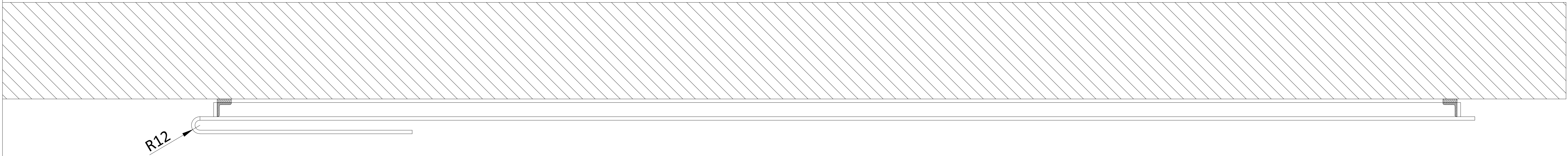
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|---|--|
| (Name and Designation) Authorised Signatory for SGDC. | |
| OFFICE OF ORIGIN TATA ELXSI LIMITED ITPB ROAD WHITEFIELD, BANGALORE-560048 | |

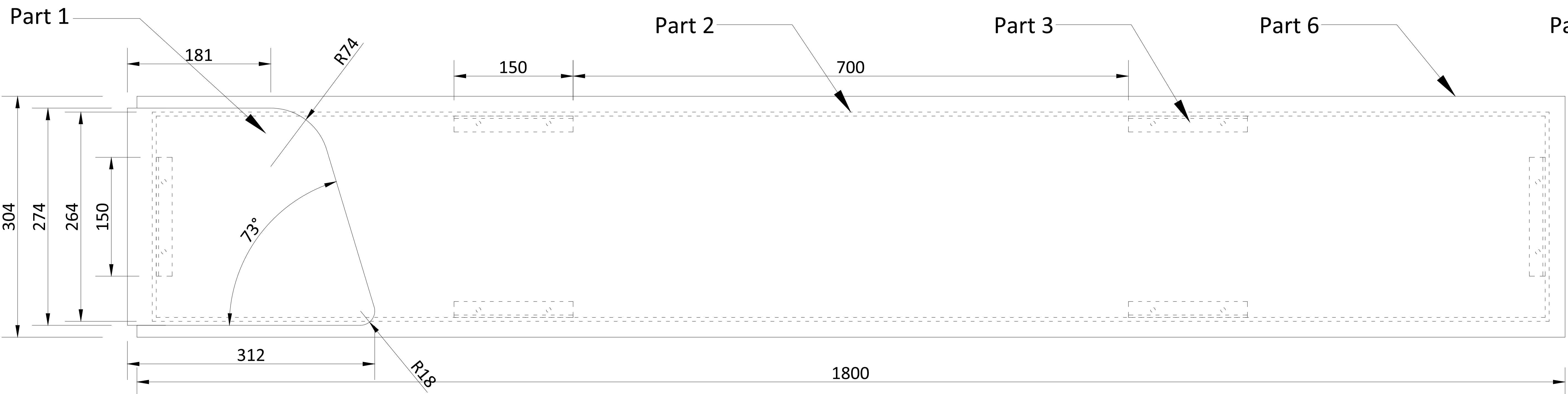
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| APPROVAL BY KMRL | KOCHI METRO RAIL PROJECT | |
| DY CE | KOCHI METRO RAIL LIMITED | |
| | SIGN NAME: OVERHEAD STATION NAME SIGN (ON BUILDING) | |
| | STATUS: TENDER (TEKM /TENDER | |
| | SCALE: STF | DRG.NO: TEK-M-T3M3-302.3 P -1 |
| CE (D&C) | DATE: 29.12.15 | DRAWN BY: Janaki |
| | REV.NO. A | CHECKED BY: PBS |



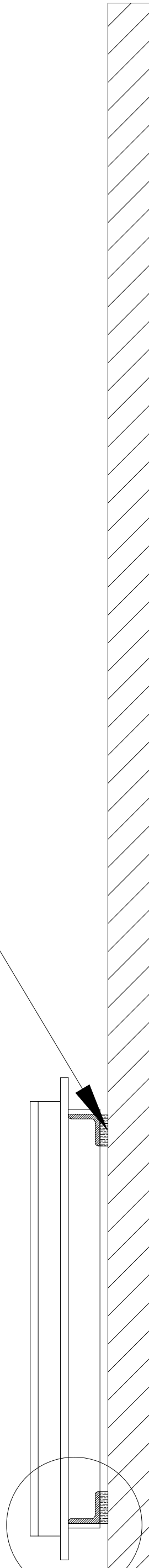
SIGNAGE&GRAPHICS



Top View

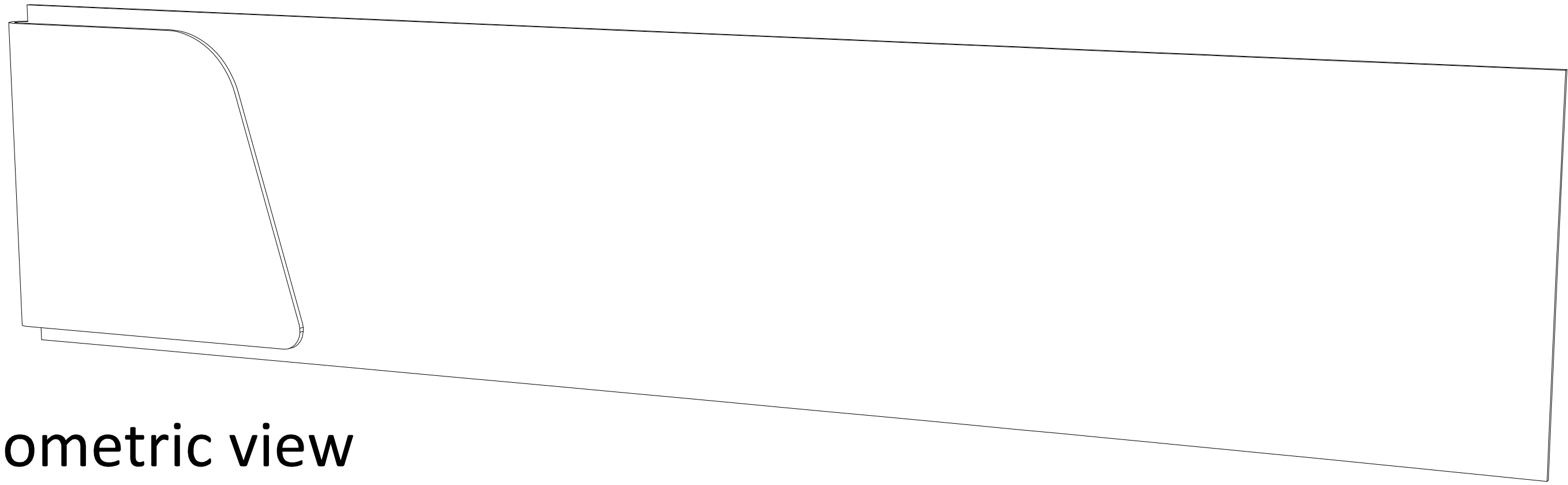


Front View

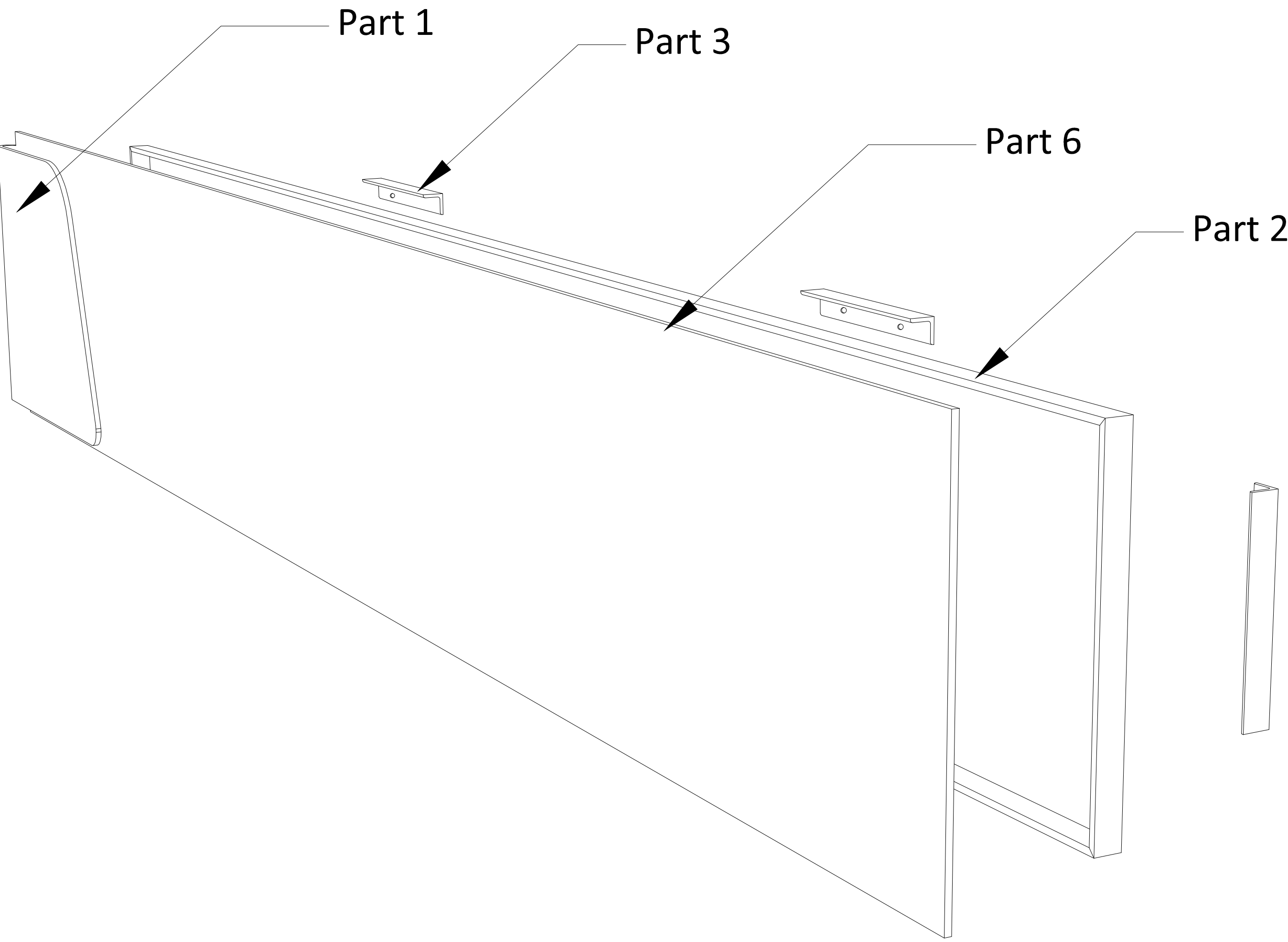


"A"

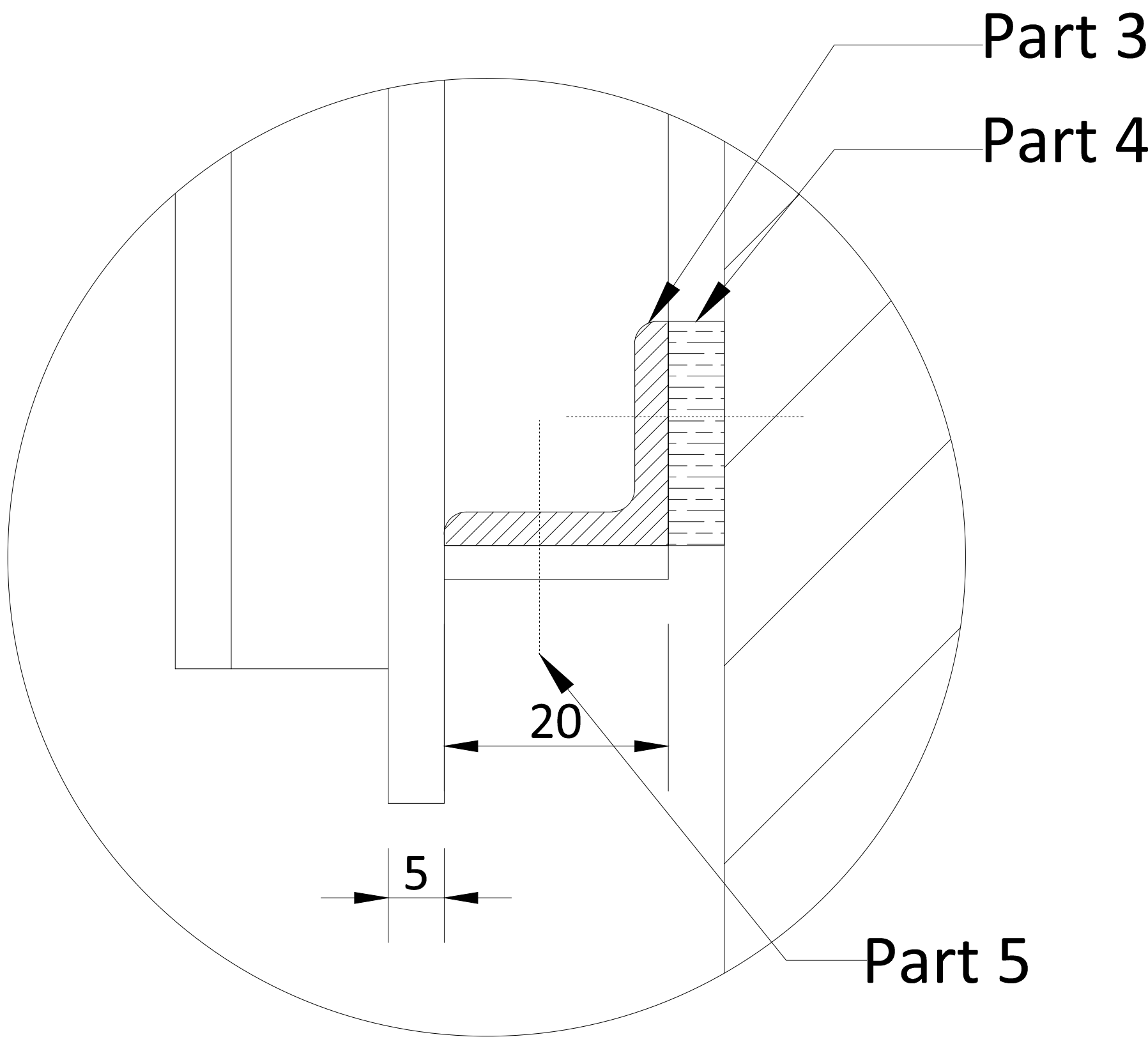
Side View



Isometric view



Exploded View





DETAIL "A"

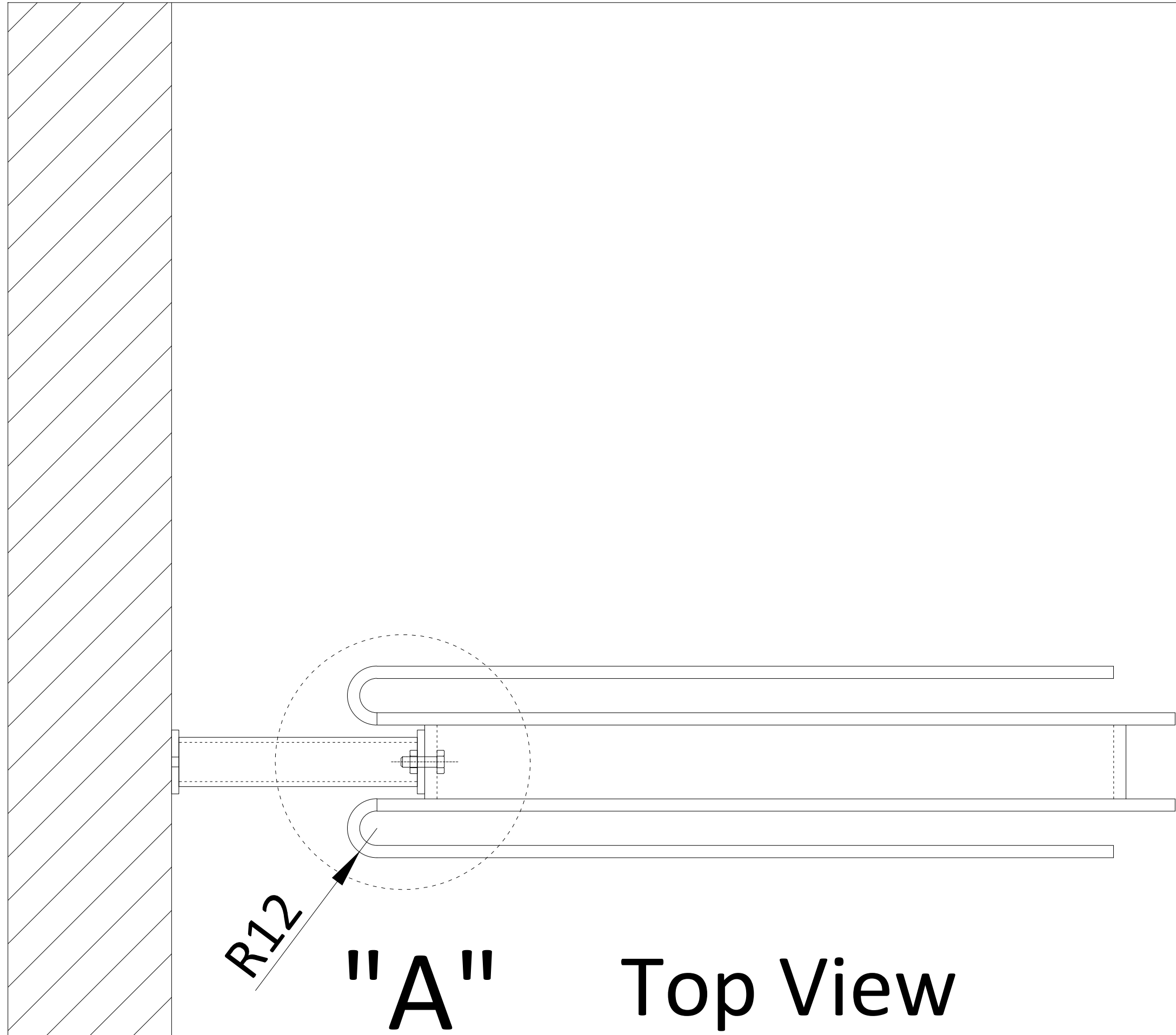
MATERIAL NOTES :

- Part 1:** Sign panel, 5mm thick aluminum sheet power coated color PANTONE 382 C wrap vinyl over it .
- Part 2:** 20mm depth 3mm thick aluminum sheet welded to Part 1 cleat powder coated color RAL classic 7016.
- Part 3:** 20X20X3mm thick equal L angle aluminum extrusion powder coated color RAL classic 7016.
- Part 4:** The frame could be mounted on the wall using a screw and rubber spacer.
- Part 5:** 3mm thick aluminum screw to equal L angle
- Part 6:** Sign panel, 5mm thick aluminum sheet power coated color PANTONE 2768 C wrap vinyl over it .

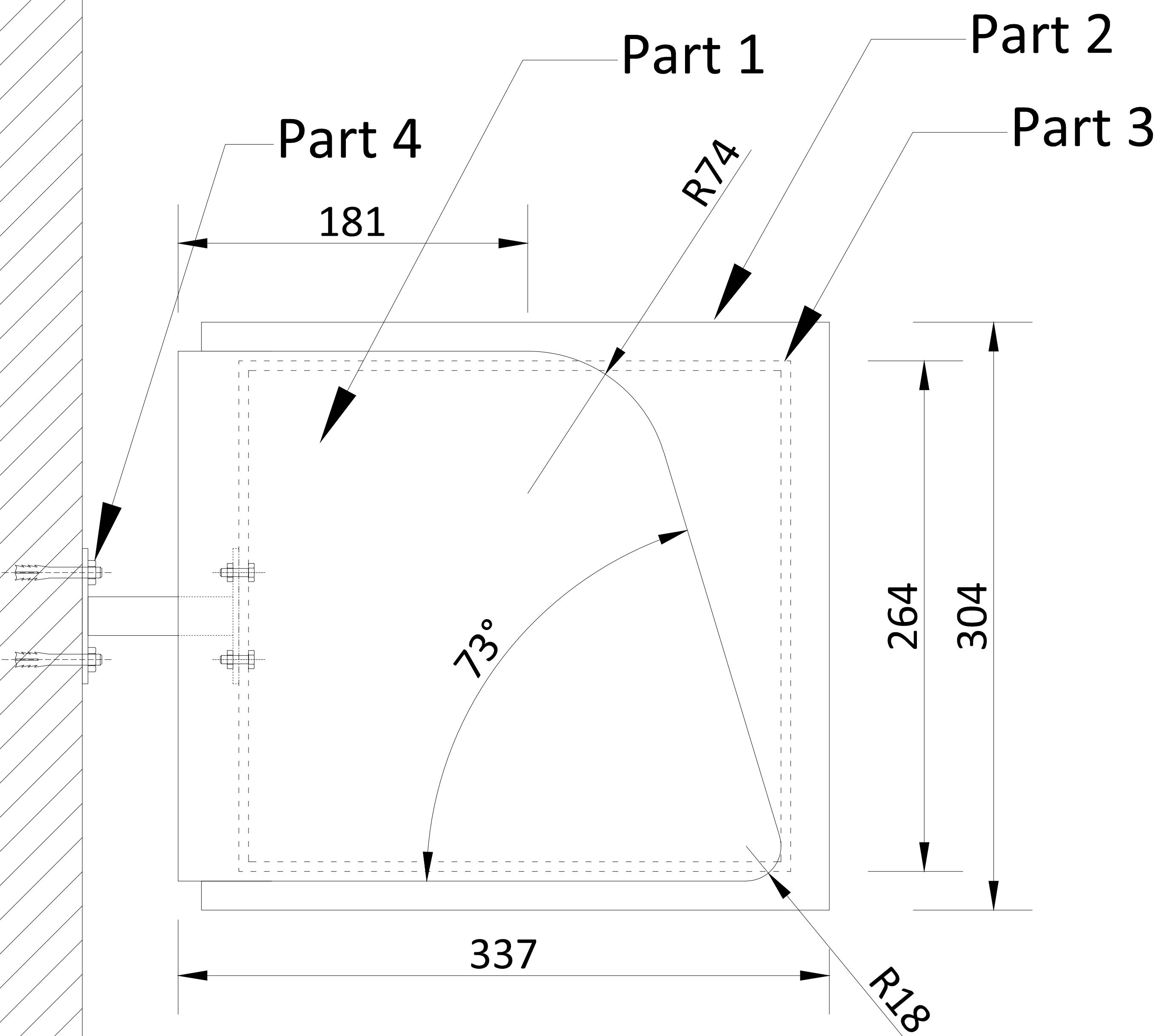
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| REV NO | DATE | DESCRIPTION | SIGN |
| SIGNAGE AND GRAPHICS DESIGN CONSULTANT | | | |
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| | | | |

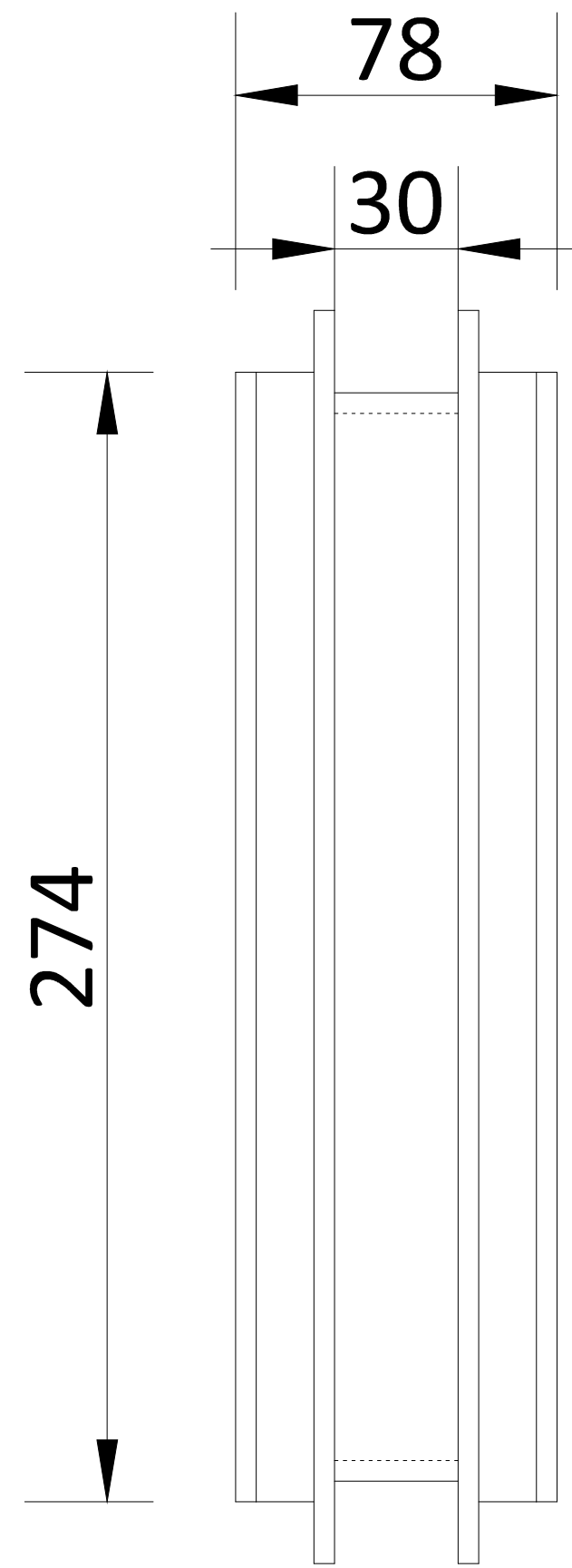
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|---------------------|---|----------------------------------|--|--|------------------|--|
| APPROVAL BY KMRL | KOCHI METRO RAIL PROJECT | | |  METRO | SIGNAGE&GRAPHICS | |
| DY CE | KOCHI METRO RAIL LIMITED | | | | | |
| | SIGN NAME: LOCATION SIGN , FACE MOUNTED | | | | | |
| | STATUS: TENDER (TEKM /TENDER | | | | | |
| CE (D&C) | SCALE: STF | DRG.NO: TEKM-T3M3-302.1.3P-01 | | | | |
| | DATE: 30.12.15 | DRAWN BY: Deepak | | | | |
| | REV.NO. A | CHECKED BY: PBS | | | | |



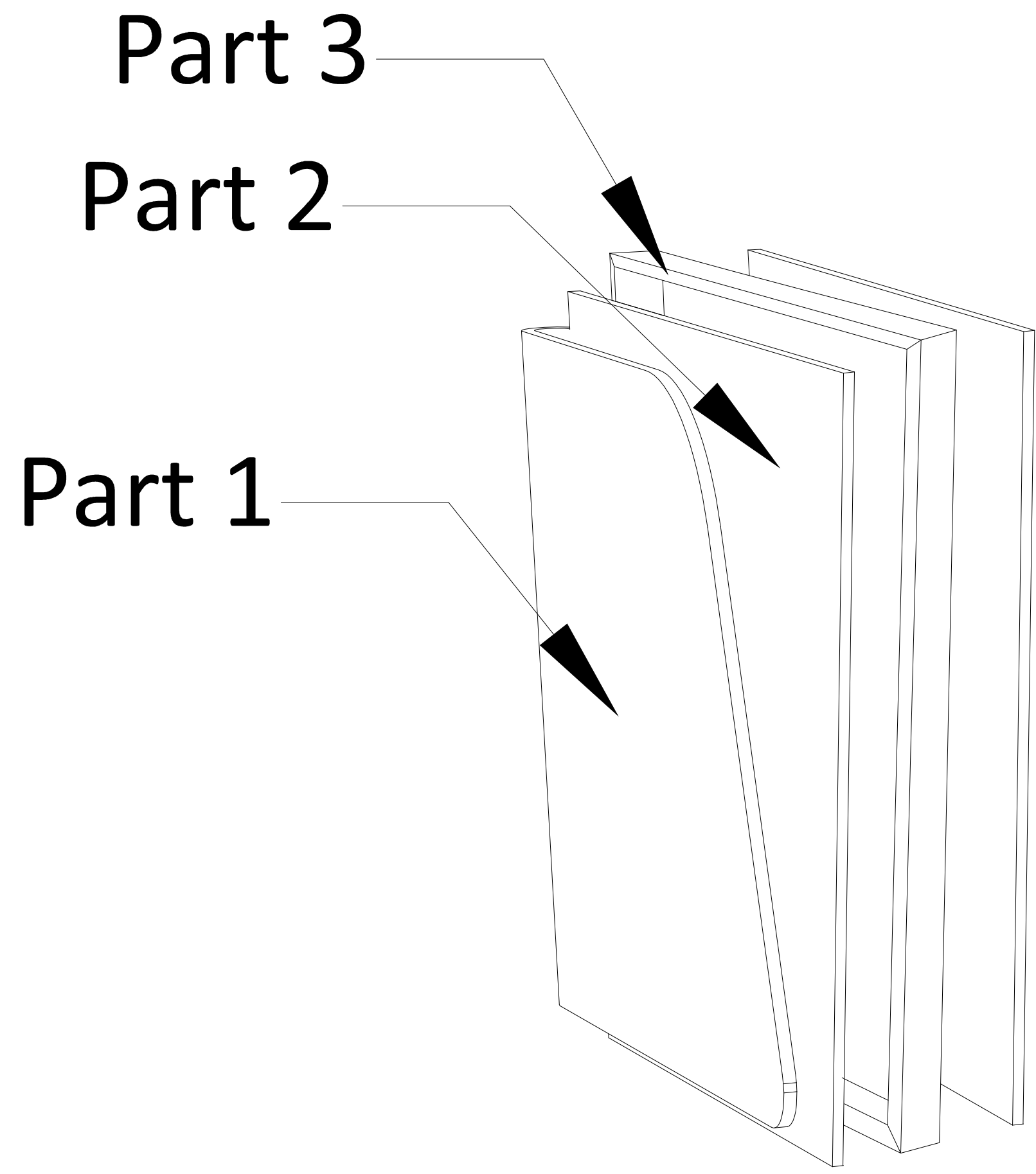
"A" Top View



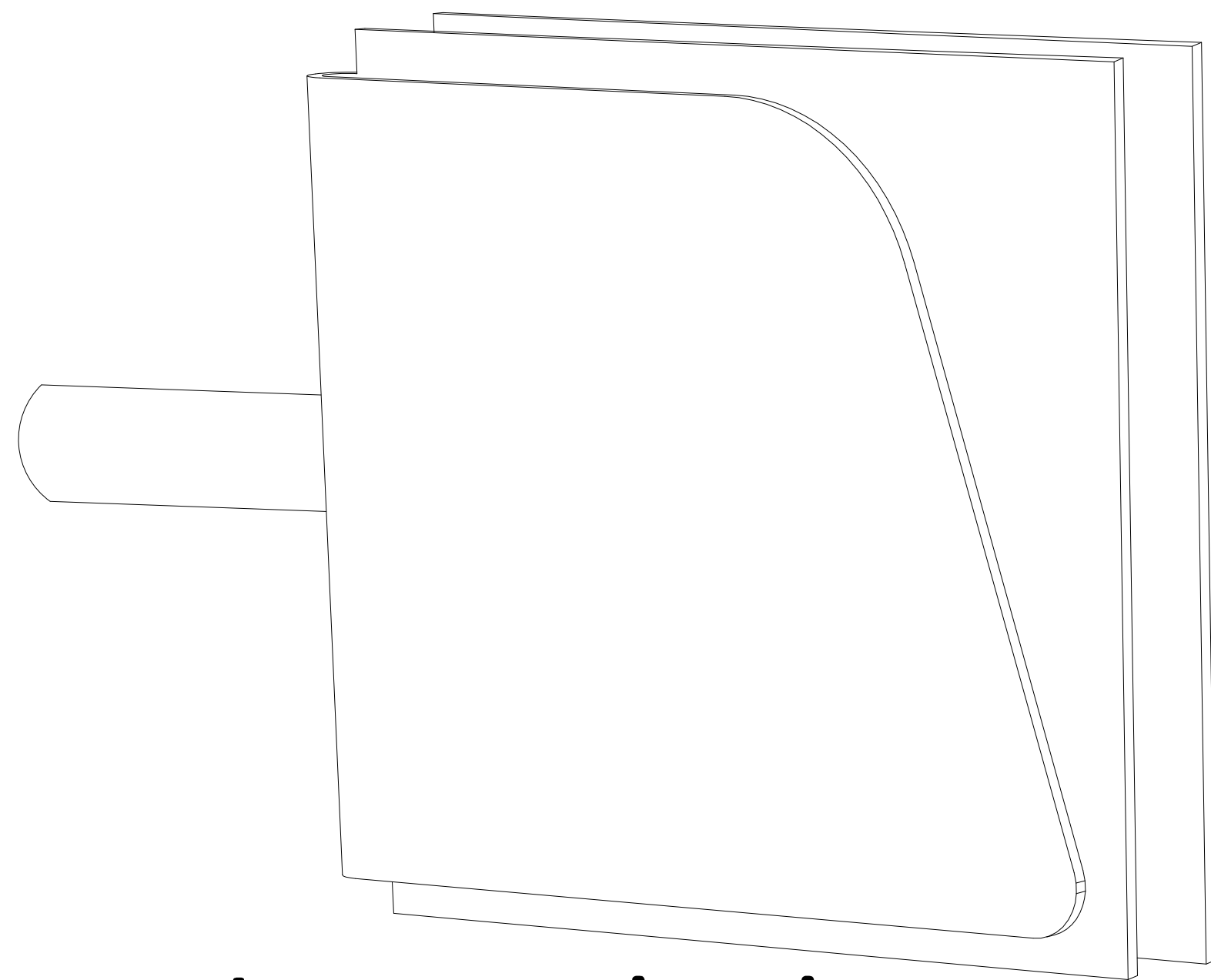
Front View



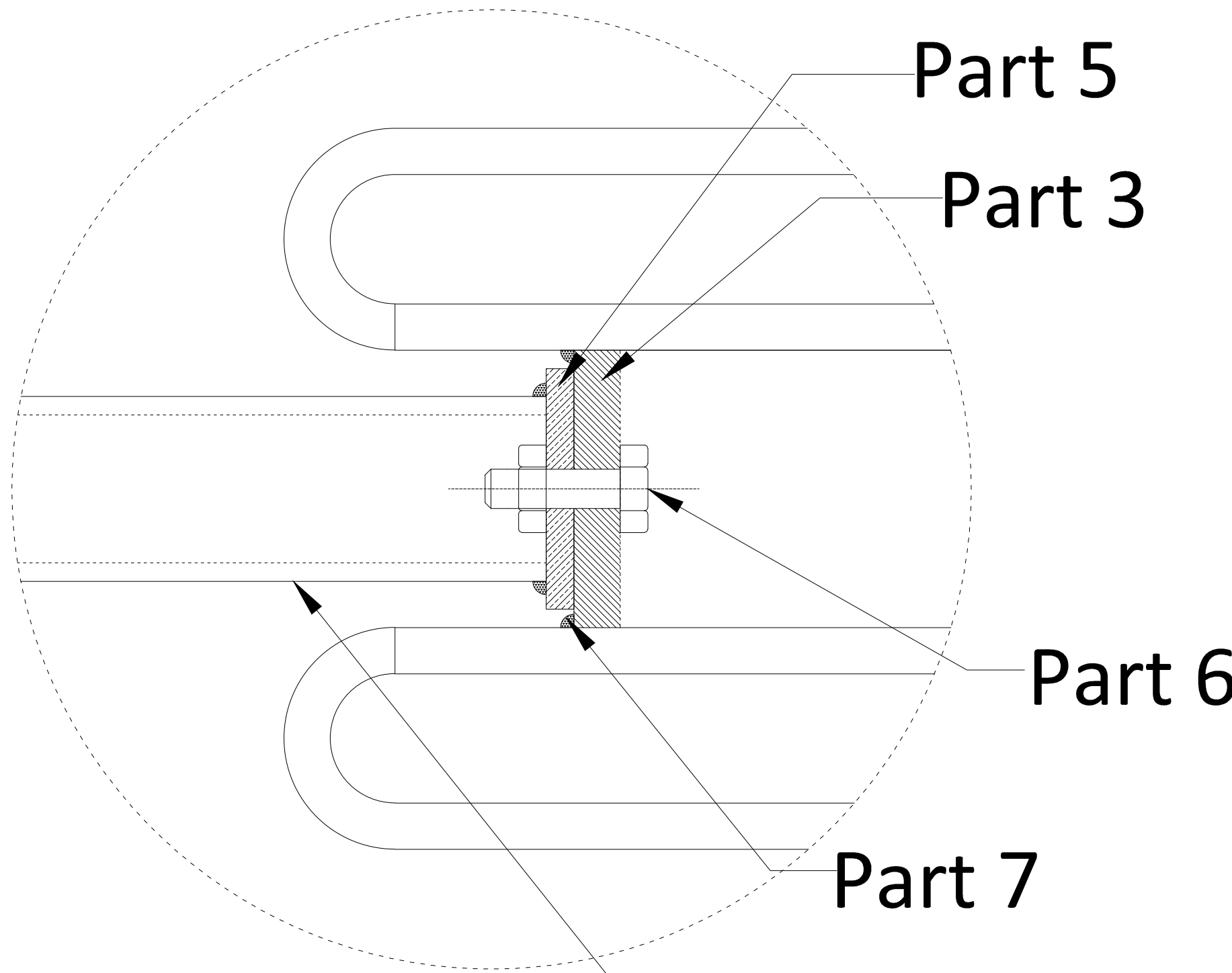
Side View



Exploded View



Isometric view



DETAIL "A"

MATERIAL NOTES :

- Part 1:** Sign panel, 5mm thick aluminum sheet power coated color PANTONE 382 C wrap vinyl over it .
- Part 2:** Sign panel, 5mm thick aluminum sheet power coated color PANTONE 2768 C wrap vinyl over it .
- Part 3:** 30mm depth 3mm thick aluminum sheet welded to Part 1 cleat powder coated color RAL classic 7016.
- Part 4:** wedge anchor bolts to wall
- Part 5:** 26 X 70 X 3mm thick MS plate bolted to Part 2
- Part 6:** M 15 Chrome bolt
- Part 7:** Part 2 and Part 3 Aluminum welding
- Part 8:** 20 mm Dia 2mm thick MS Pipe welded to 26 X 70 X 3mm thick MS plate cleat powder coated color RAL classic 7016.

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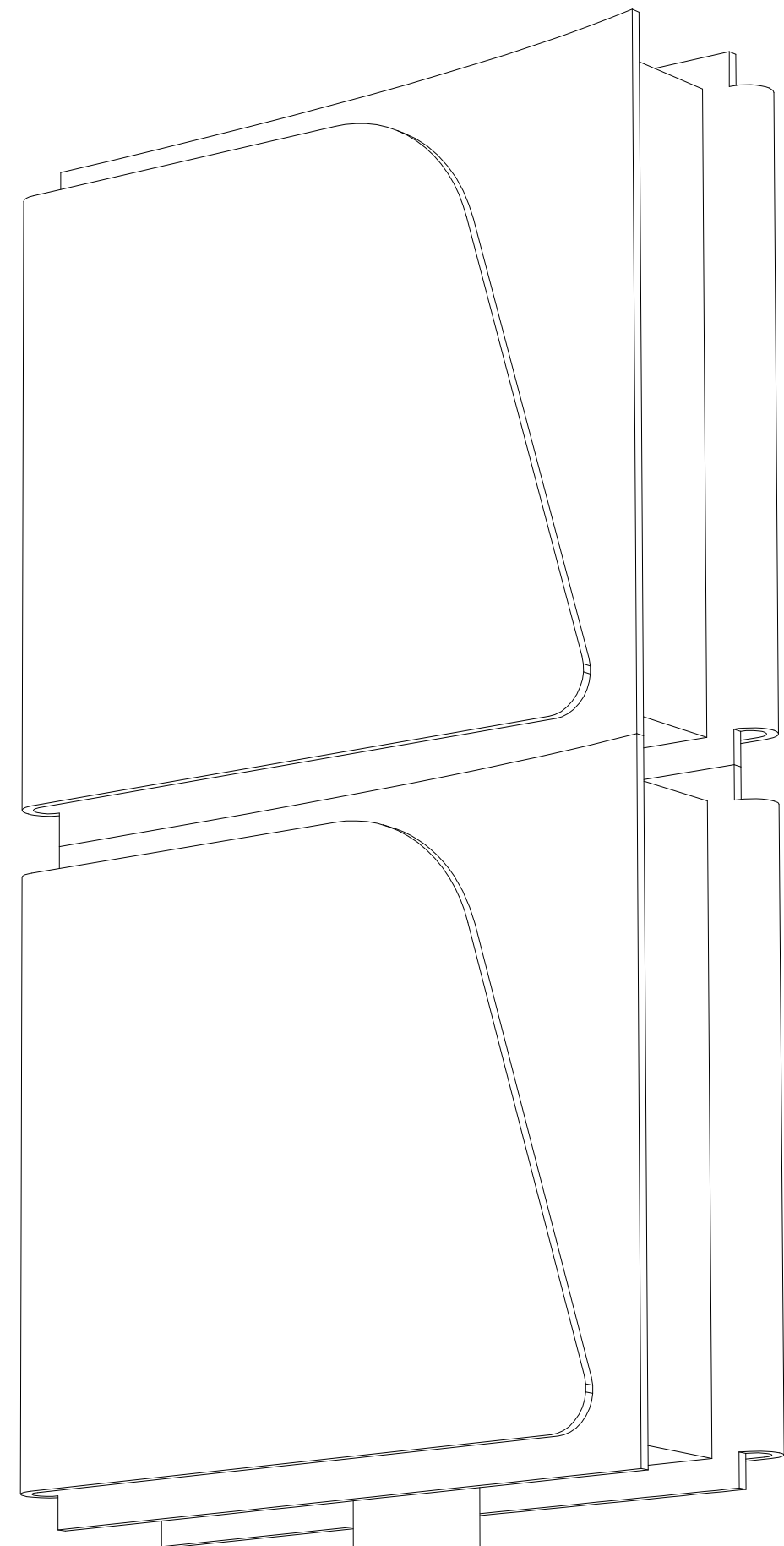
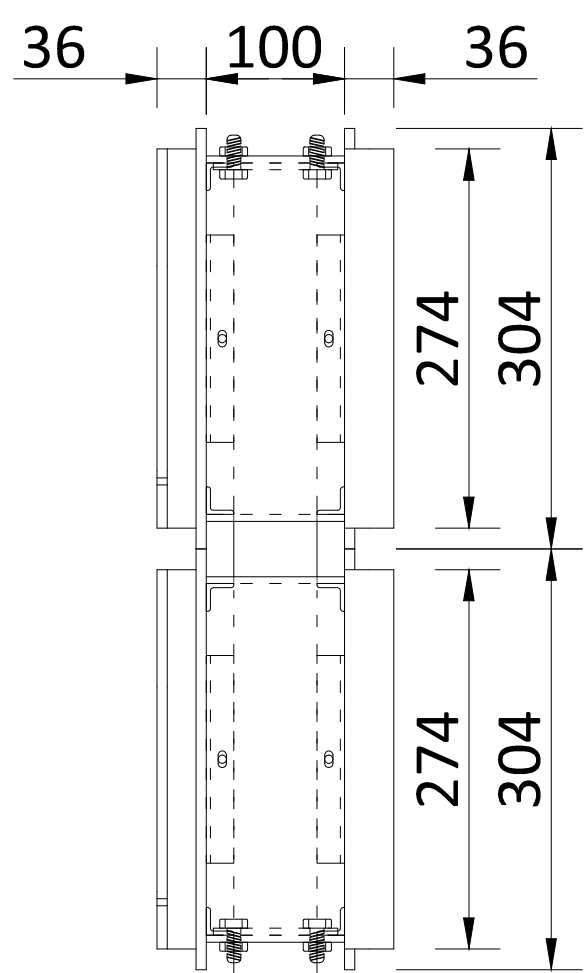
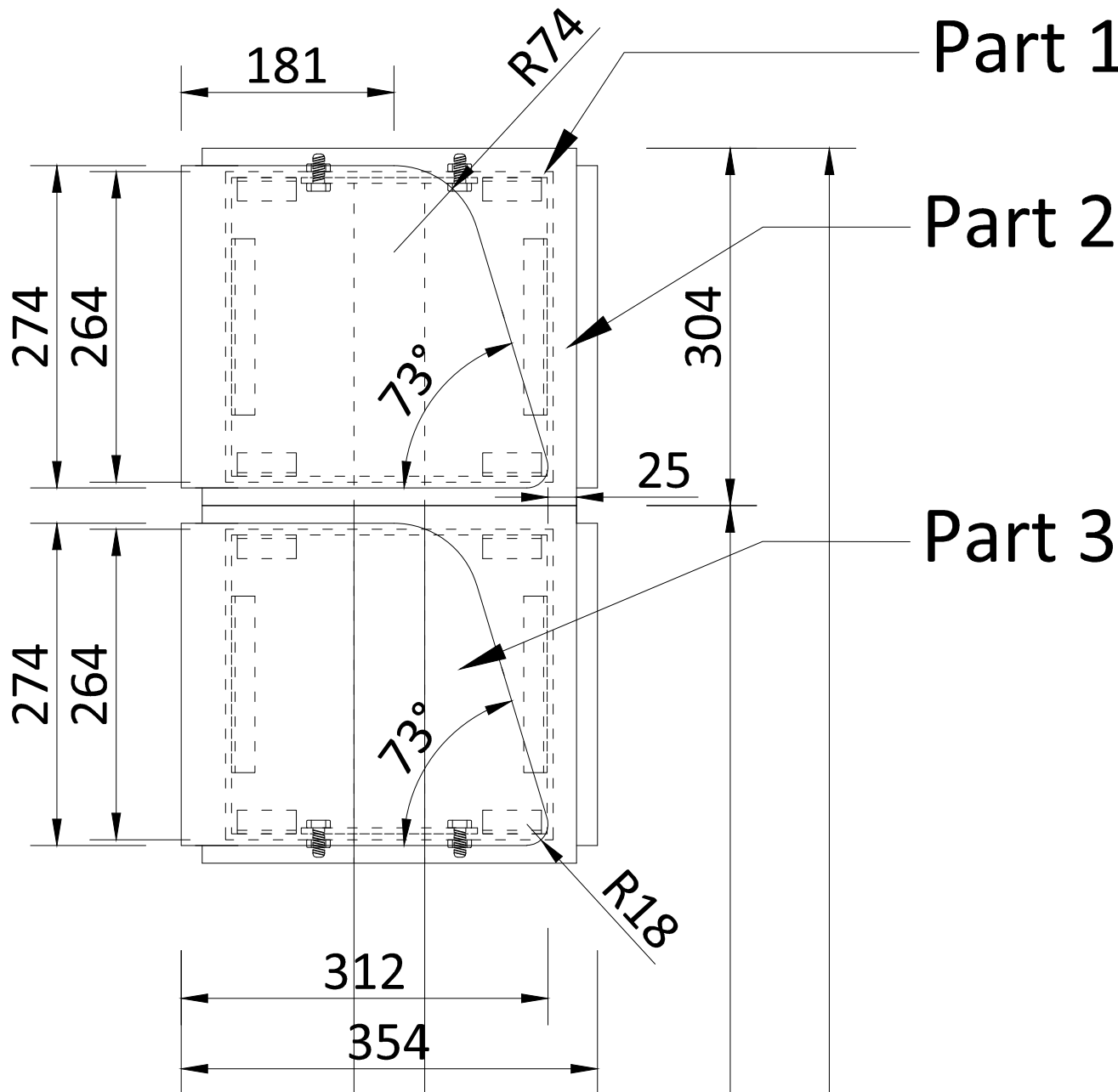
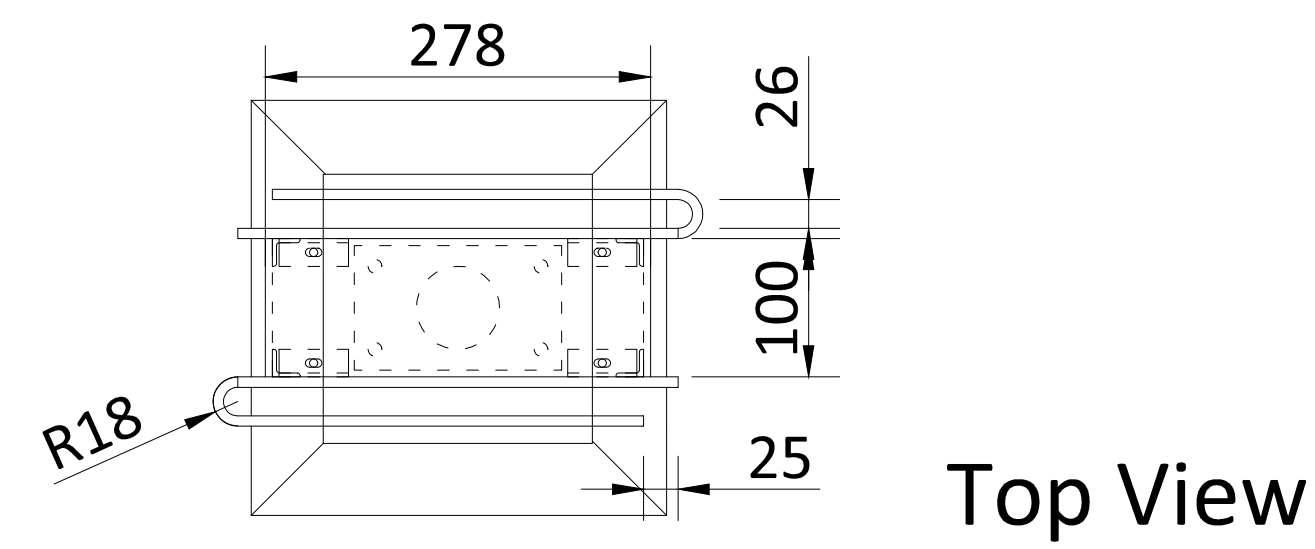
| REV NO | DATE | DESCRIPTION | SIGN |
|--------|------|-------------|------|
| | | | |

SIGNAGE AND GRAPHICS DESIGN CONSULTANT

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|---|--|
| (Name and Designation) Authorised Signatory for SGDC. | |
| OFFICE OF ORIGIN TATA ELXSI LIMITED ITPB ROAD WHITEFIELD, BANGALORE-560048 | |

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| APPROVAL BY KMRL | KOCHI METRO RAIL PROJECT | |
| | KOCHI METRO RAIL LIMITED | |
| DY CE | SIGN NAME: LOCATION SIGN , PROJECTED | |
| | STATUS: TENDER (TEKM /TENDER | |
| CE (D&C) | SCALE: STF | |
| | DATE: 30.12.15 | |
| REV.NO. A | | CHECKED BY: PBS |



- MATERIAL NOTES :**
- Part 1:** Sign panel, 5mm thick aluminum sheet power coated color RAL classic 7016.
- Part 2:** Sign panel, 5mm thick aluminum sheet power coated color PANTONE 2768 C wrap vinyl over it .
- Part 3:** Sign panel, 5mm thick aluminum sheet power coated color PANTONE 382 C wrap vinyl over it .
- Part 4:** - Post 60mm dia MS Circular Hollow Section PU Painted color RAL classic 7016 . Fixed With Foundation .

- GENERAL NOTES:**
- ALL DIMENSIONS ARE IN MM.
 - ALL DIMENSIONS ARE TO BE READ AND NOT MEASURED.
 - ANY DISCREPANCIES MUST BE BROUGHT TO THE NOTICE OF THE CONSULTANT BEFORE EXECUTION OF WORK AT SITE.
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SIGNAGE AND GRAPHICS DESIGN CONSULTANT

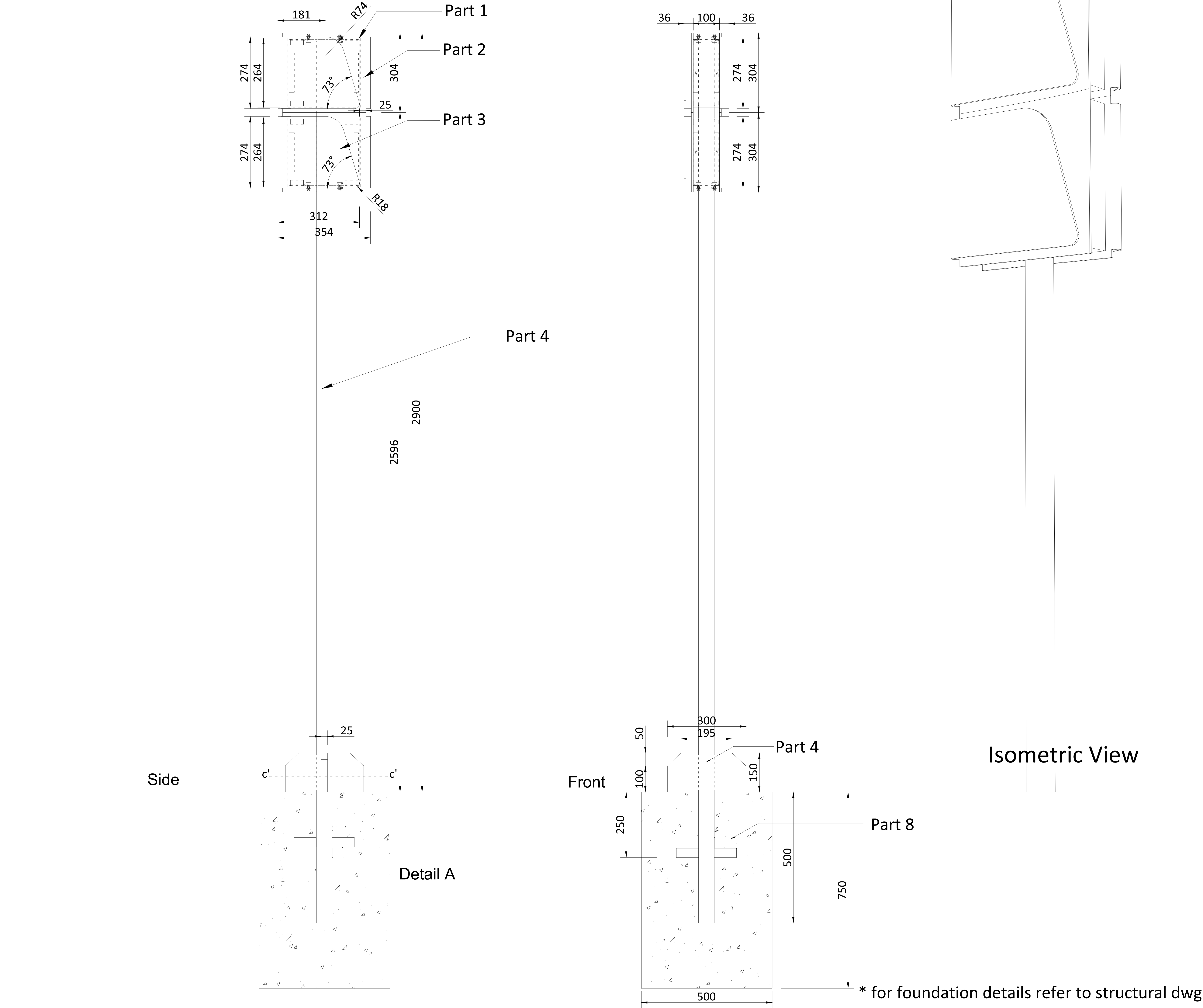
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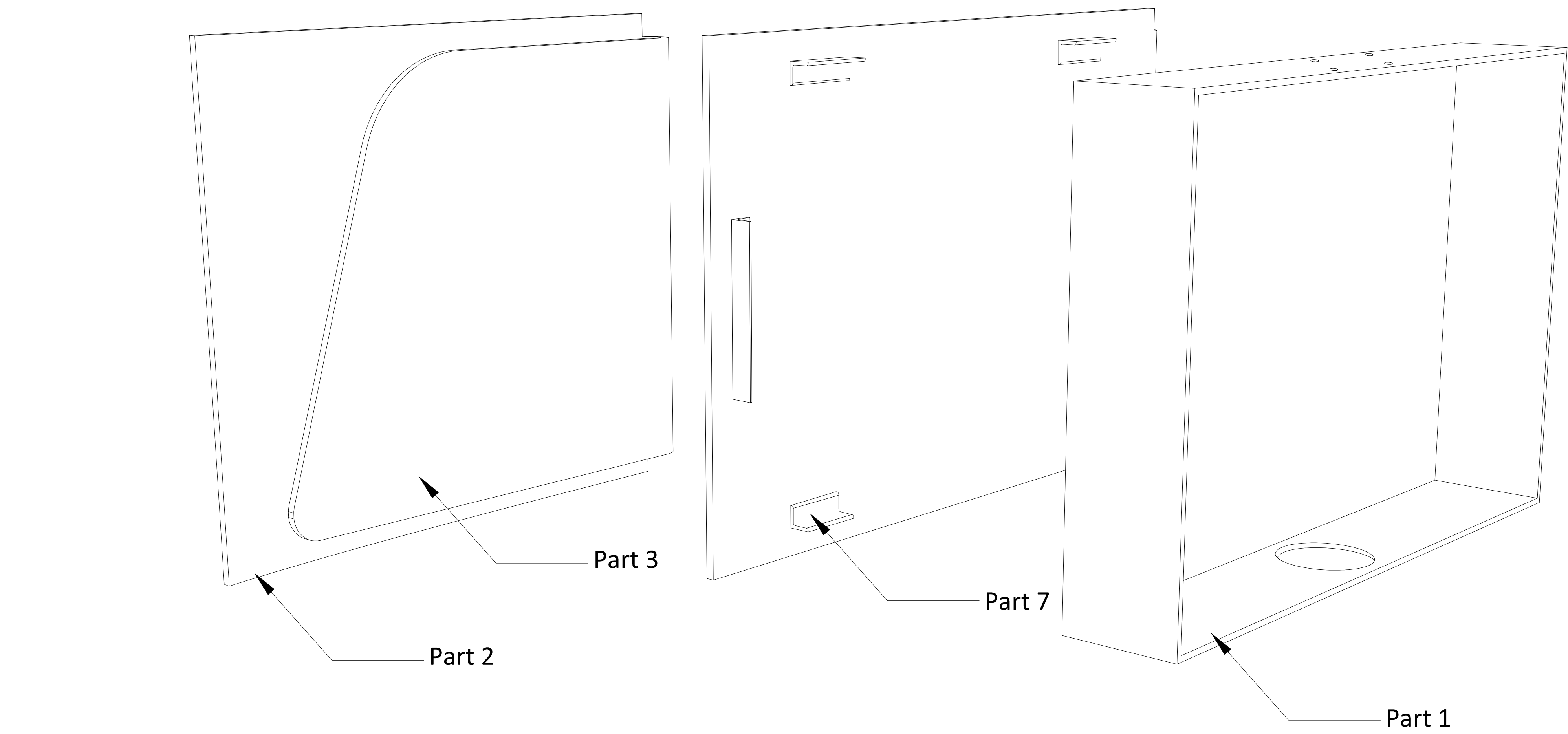
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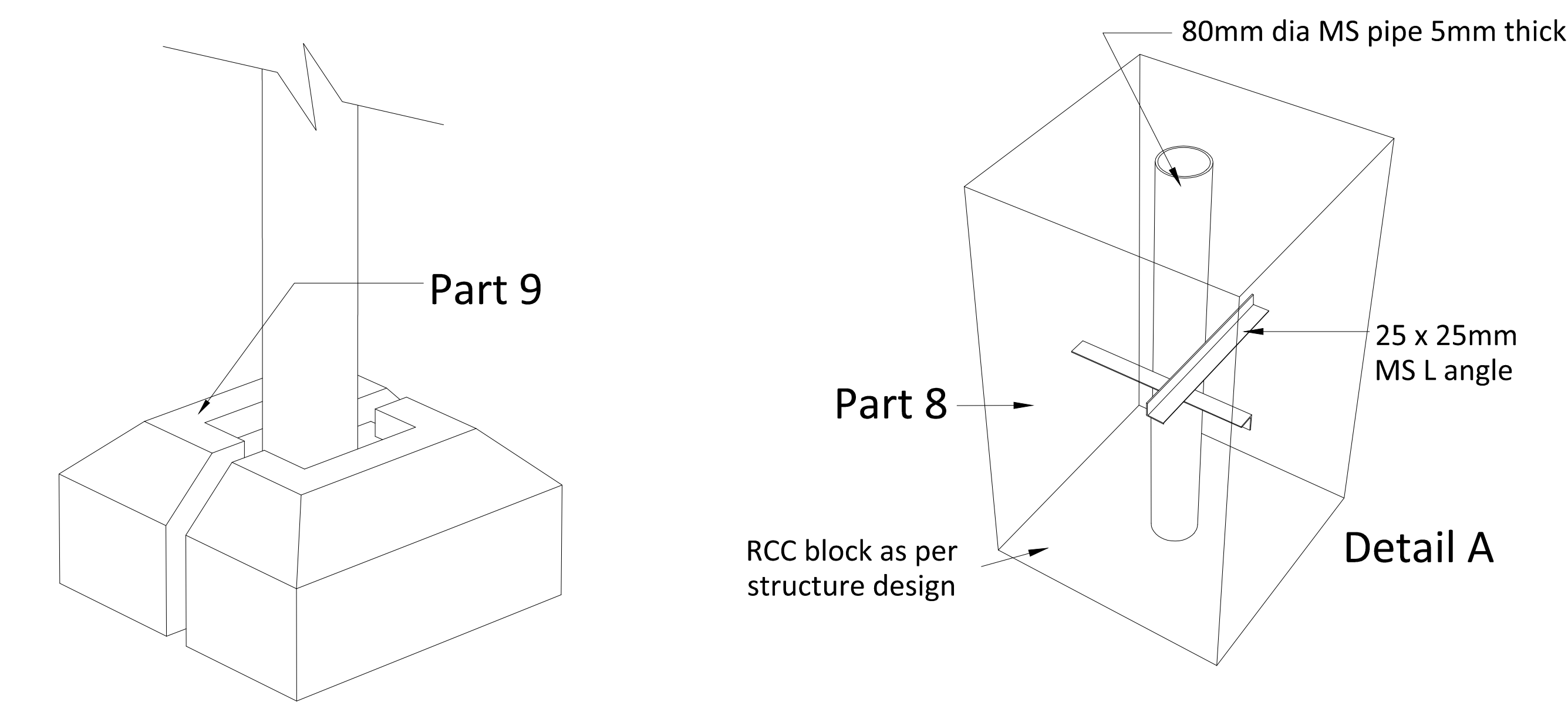
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| | KOCHI METRO RAIL LIMITED | | | | |
| | SIGN NAME: LOCATION SIGN , POST MOUNTED | | | | |
| DY CE | STATUS: TENDER (TEKM /TENDER | | | | |
| CE (D&C) | SCALE: STF | DRG.NO: TEKM-T3M3-302.1.5P -1 | | | |
| | DATE: 30.12.15 | DRAWN BY: Deepak | | | |
| | REV.NO. A | CHECKED BY: PBS | | | |

SIGNAGE&GRAPHICS

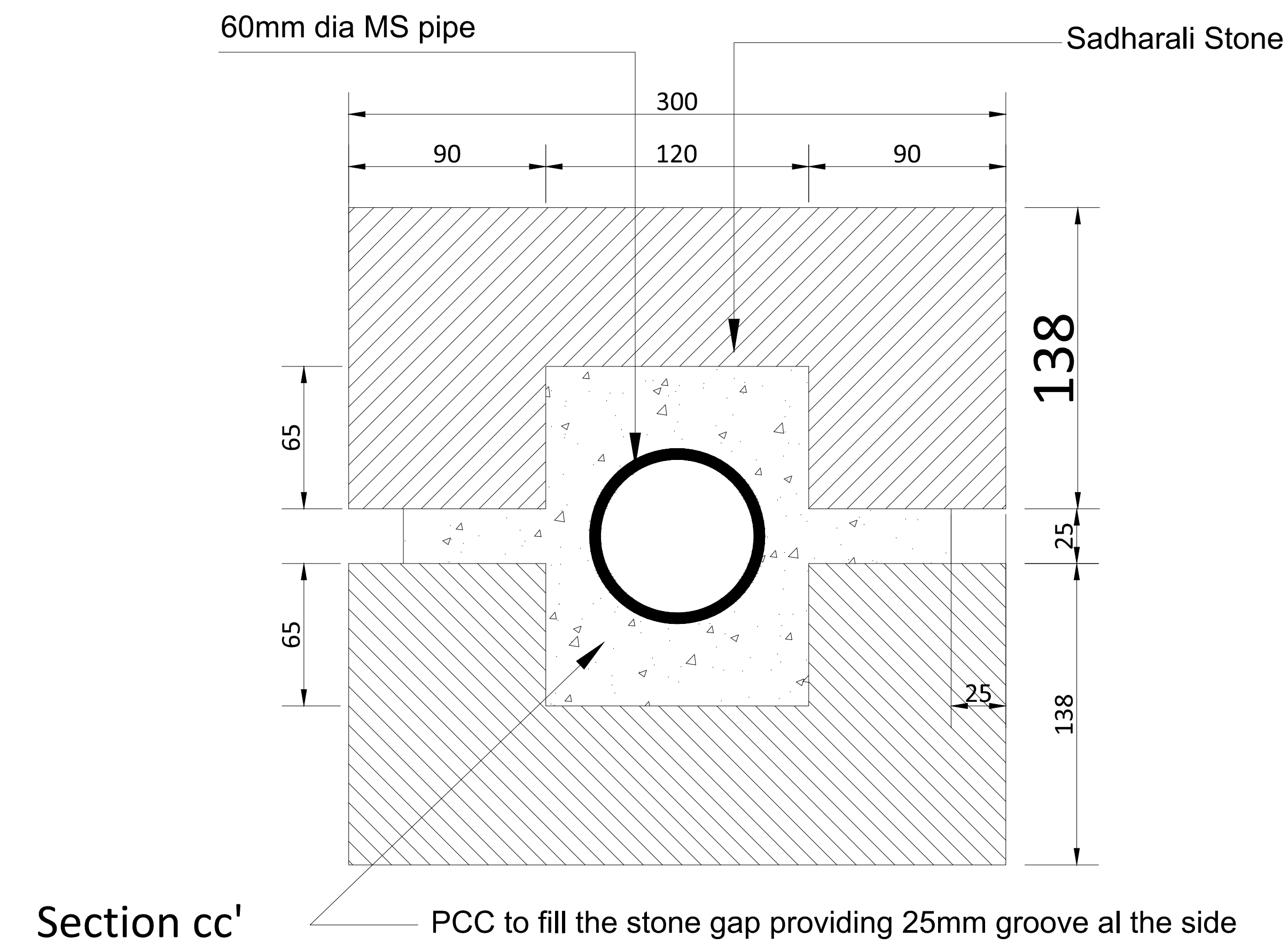
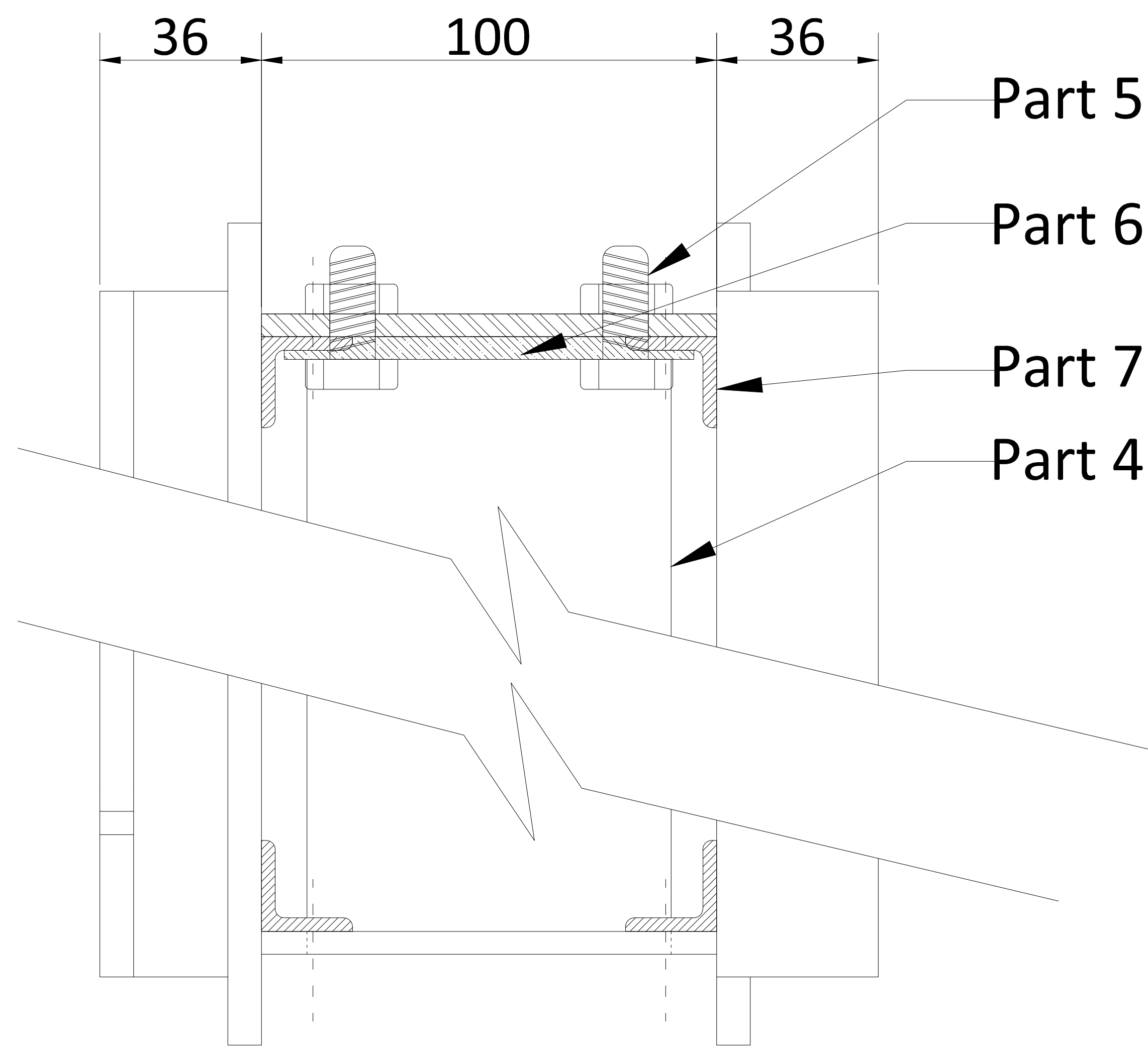
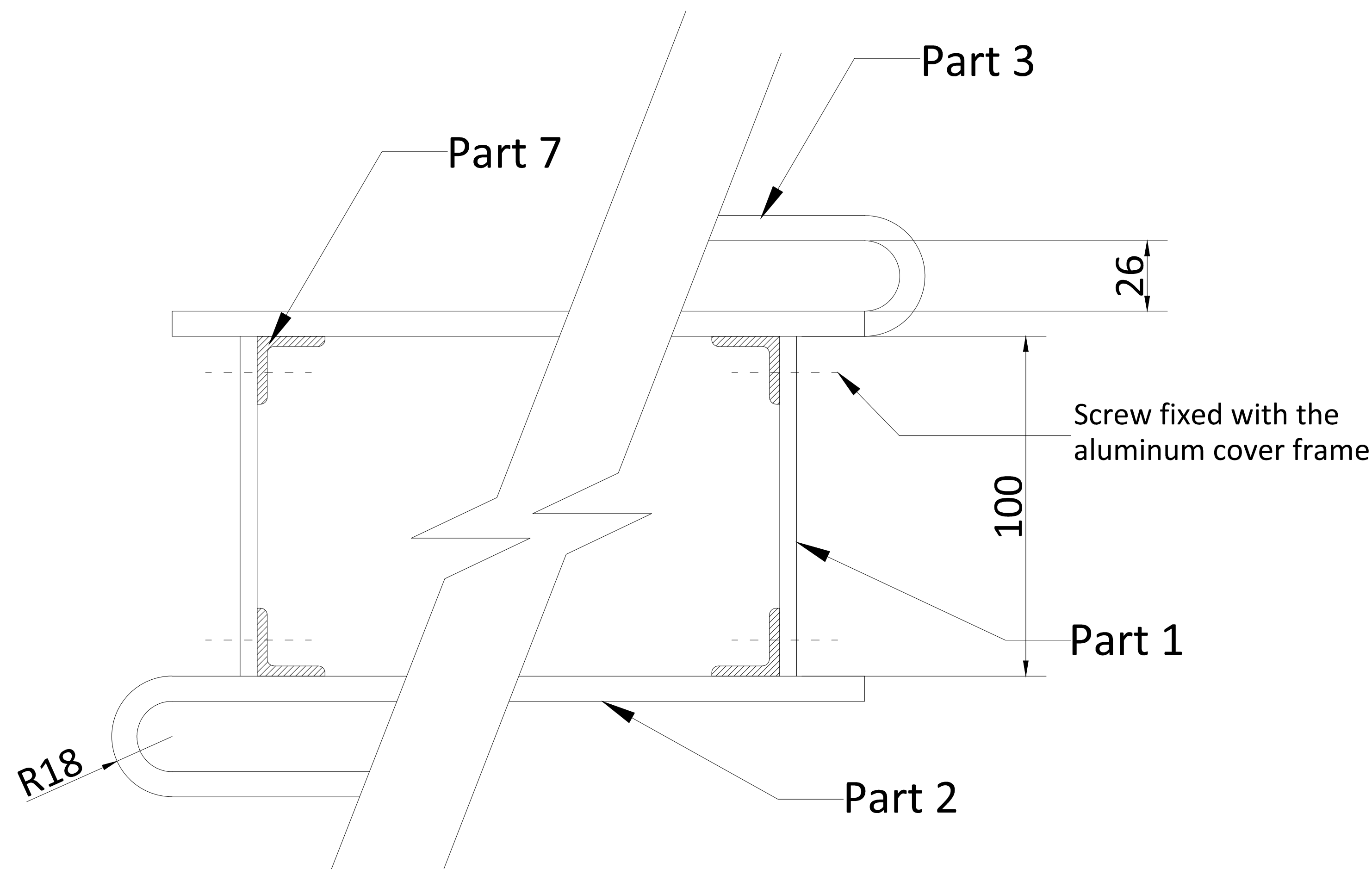




Exploded View



Post mounting plate on box frame



MATERIAL NOTES :

Part 1: Sign panel, 5mm thick aluminum sheet power coated color RAL classic 7016.

Part 2: Sign panel, 5mm thick aluminum sheet power coated color PANTONE 2768 C wrap vinyl over it .

Part 3: Sign panel, 5mm thick aluminum sheet power coated color PANTONE 382 C wrap vinyl over it .

Part 4: - Post 60mm dia MS Circular Hollow Section PU Painted color RAL classic 7016 . Fixed With Foundation .

Part 5: M10 bolt for mounting box frame

Part 6: 150mm X 90mm X 5mm MS plate welded to 60mm MS circular Hollow section PU Painted color RAL classic 7016.

Part 7: 20X20X3mm thick equal L angle aluminum extrusion welded to sign panel powder coated color pantone 2768 C .

Part 8: Foundation PPC Foundation as per structural design

Part 9: Pedestal 300X300X150mm Sadarahalli stone . 3 Line Finish . PPC Poured to Fix .

GENERAL NOTES:

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ITPB ROAD WHITEFIELD,
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APPROVAL BY
KMRL

KOCHI METRO RAIL PROJECT

KOCHI METRO RAIL LIMITED

SIGN NAME: LOCATION SIGN , POST MOUNTED

DY CE

STATUS: TENDER (TEKM /TENDER

SCALE: STF

DRG.NO: TEK-M-T3M3-302.1.5P -2

DATE: 30.12.15

DRAWN BY: Deepak

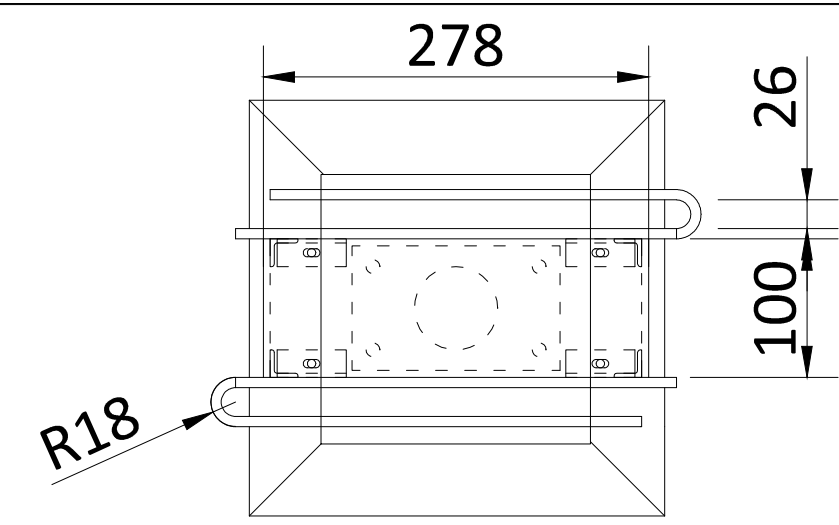
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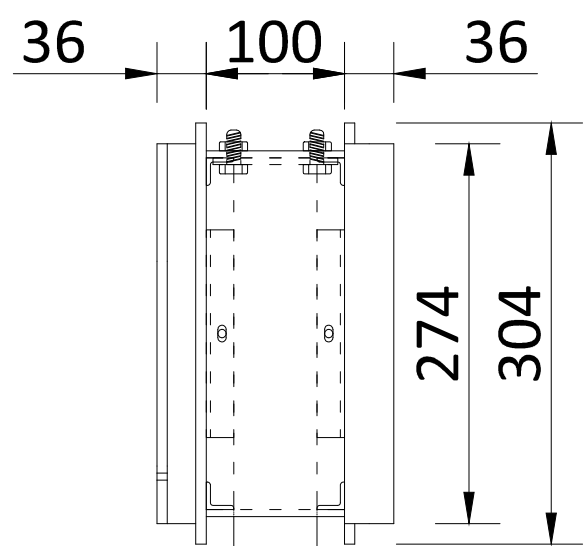
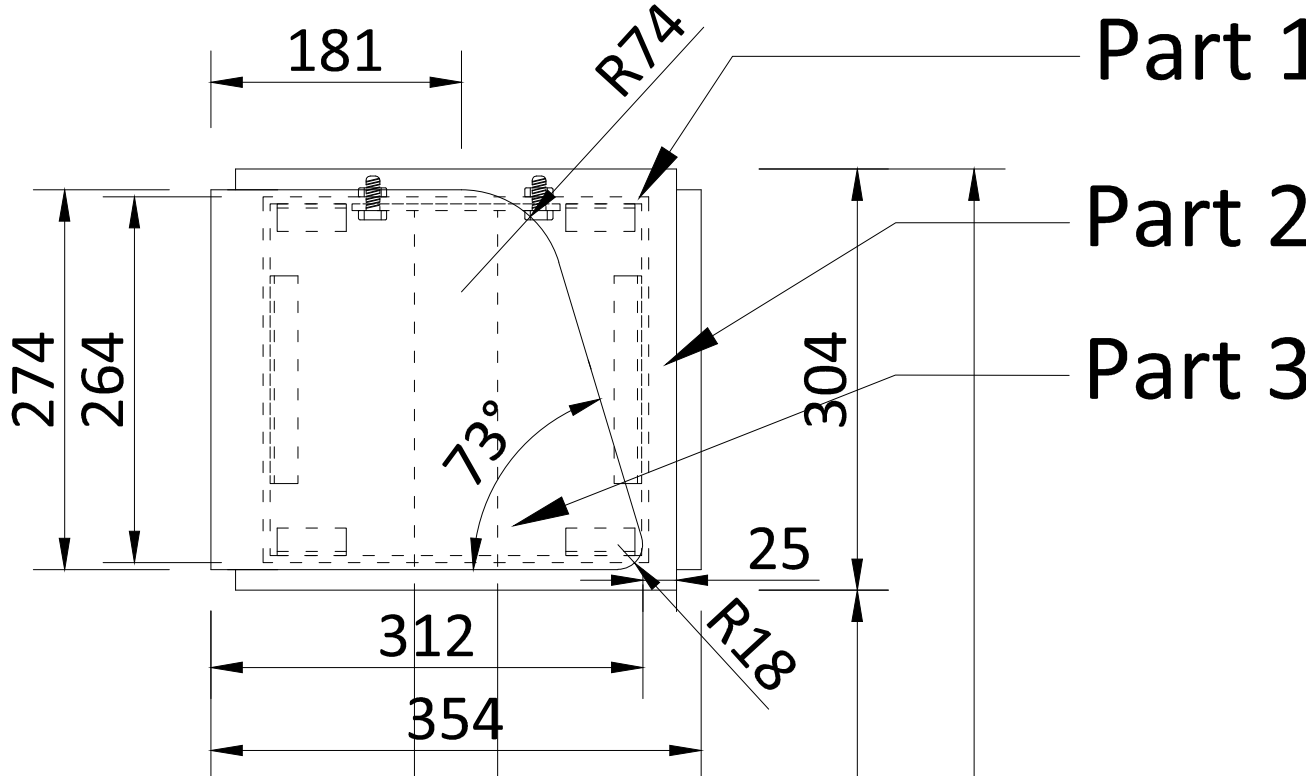
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SIGNAGE&GRAPHICS



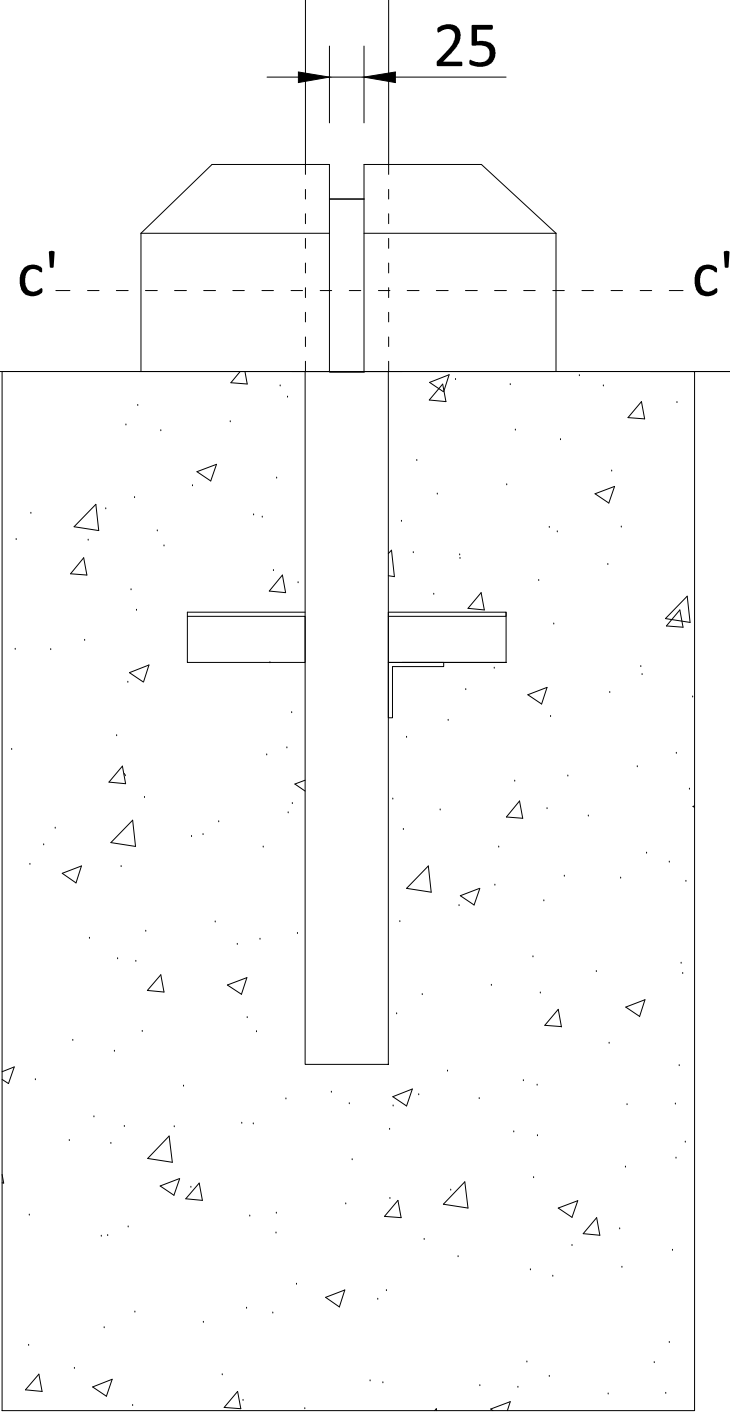
Top View



Part 4

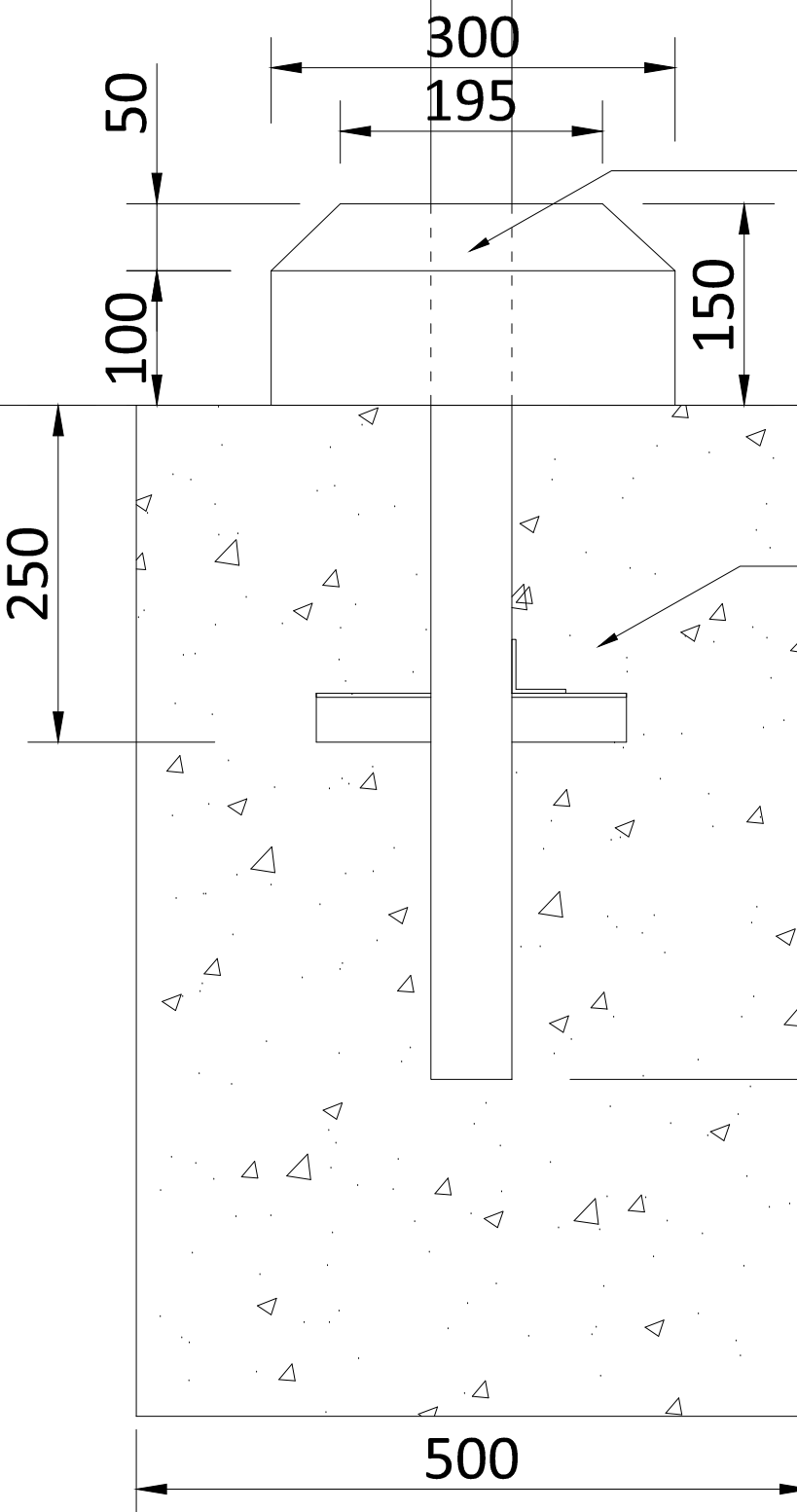
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Side



Detail A

Front

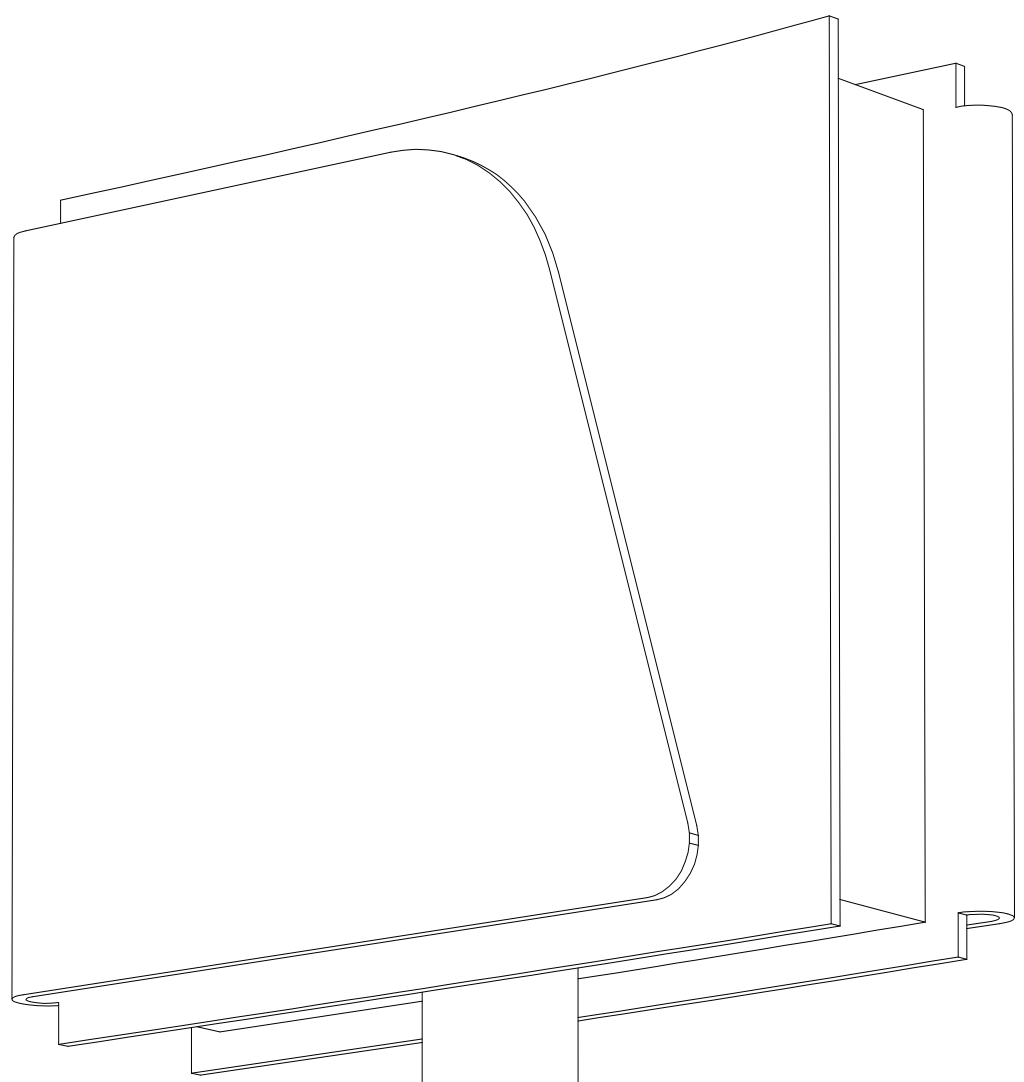


Part 4

Part 8

* for foundation details refer to structural dwg

Isometric View



MATERIAL NOTES :

Part 1: Sign panel, 5mm thick aluminum sheet power coated color RAL classic 7016.

Part 2: Sign panel, 5mm thick aluminum sheet power coated color PANTONE 2768 C wrap vinyl over it .

Part 3: Sign panel, 5mm thick aluminum sheet power coated color PANTONE 382 C wrap vinyl over it .

Part 4: - Post 60mm dia MS Circular Hollow Section PU Painted color RAL classic 7016 . Fixed With Foundation .

GENERAL NOTES:

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SIGNAGE AND GRAPHICS DESIGN CONSULTANT

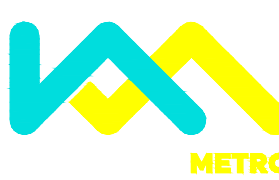
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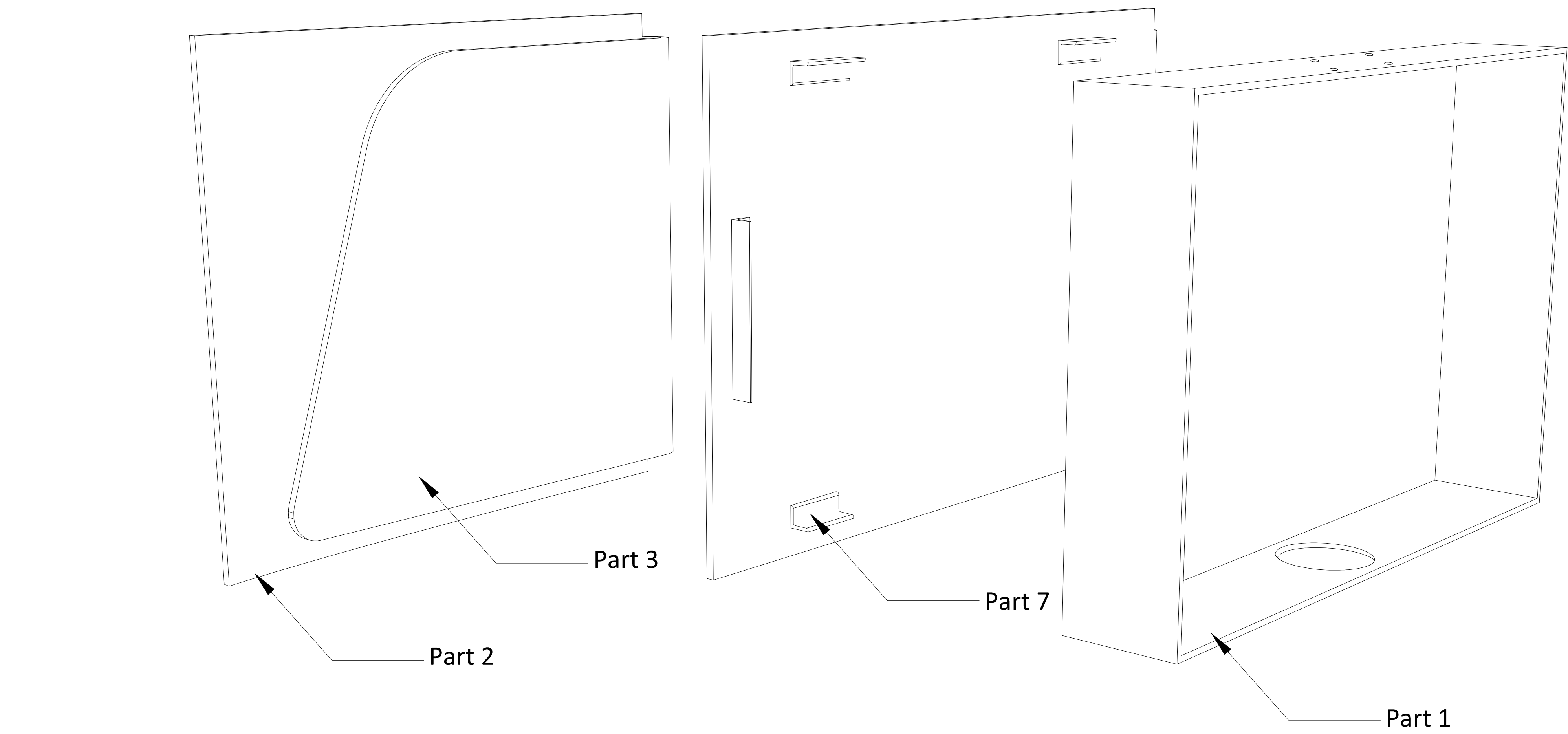
(Name and Designation)
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BANGALORE-560048

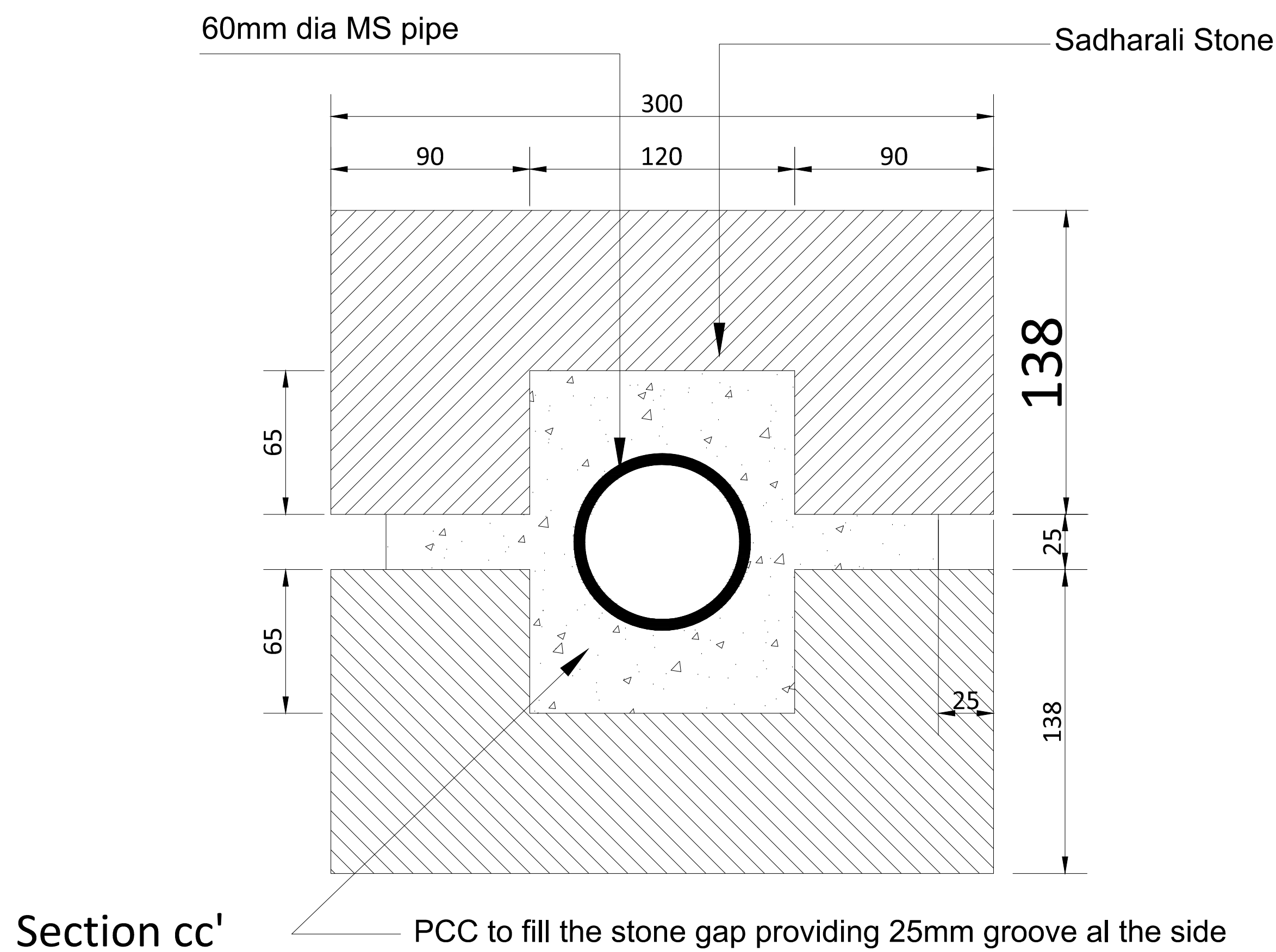
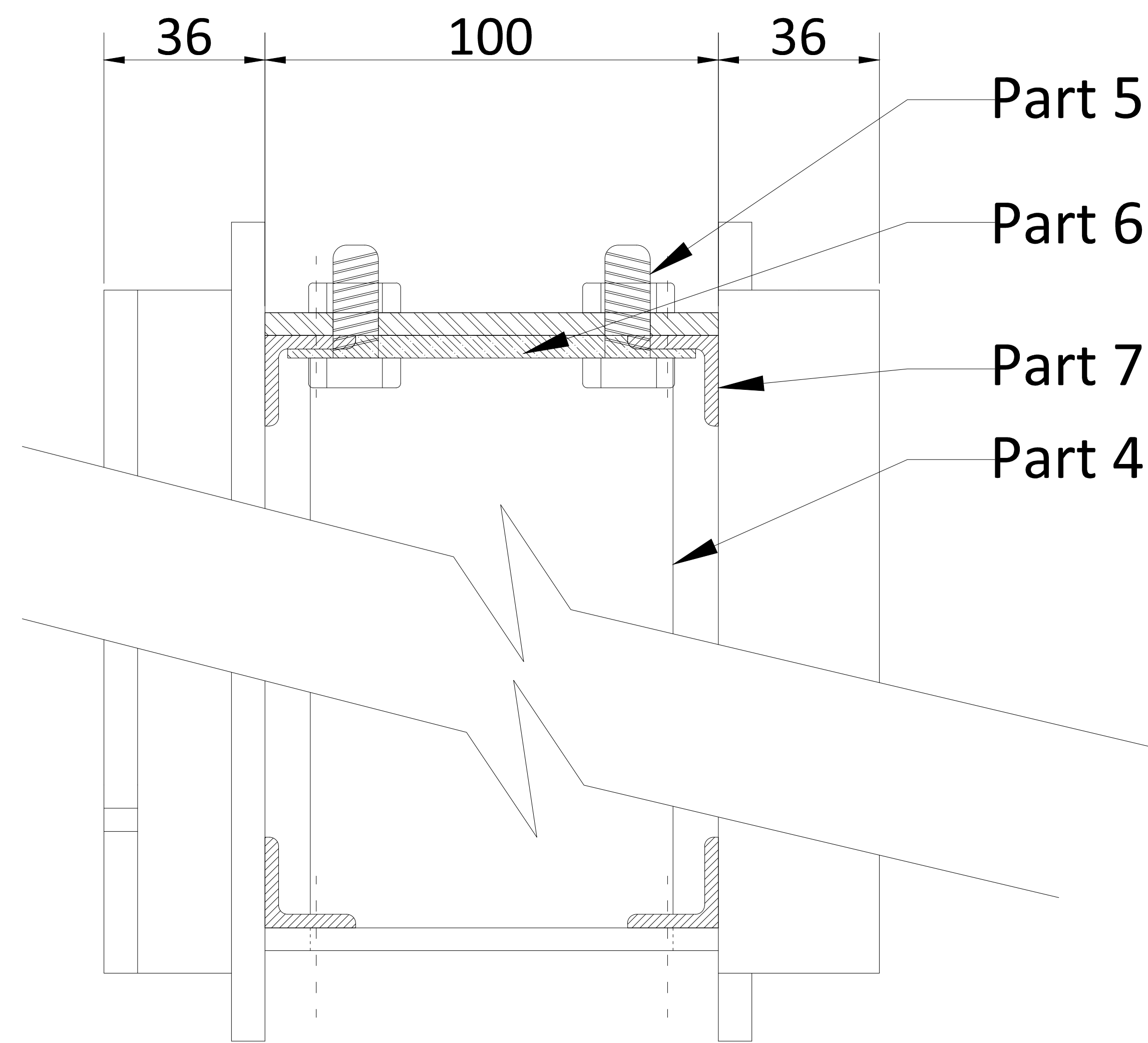
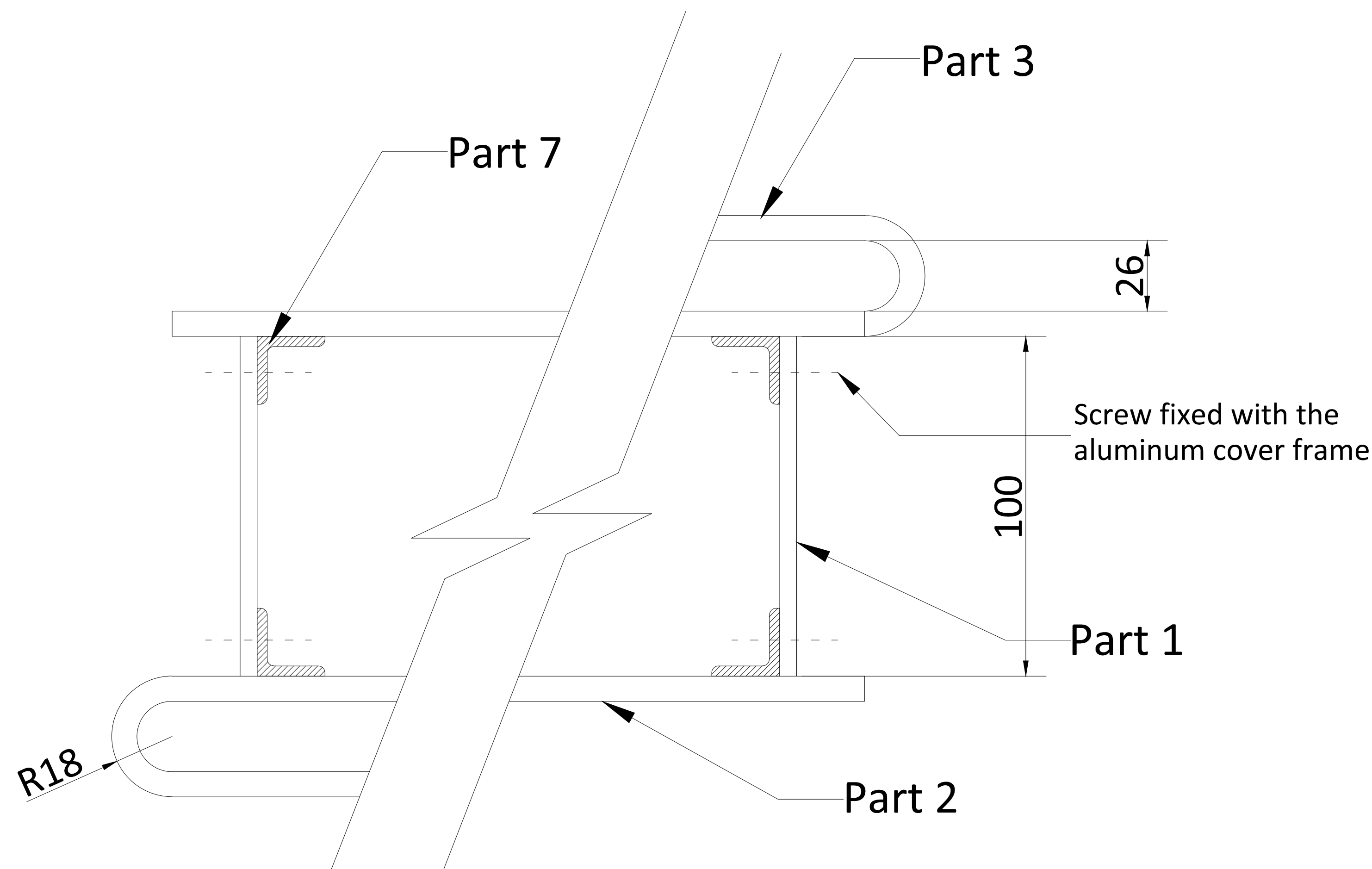
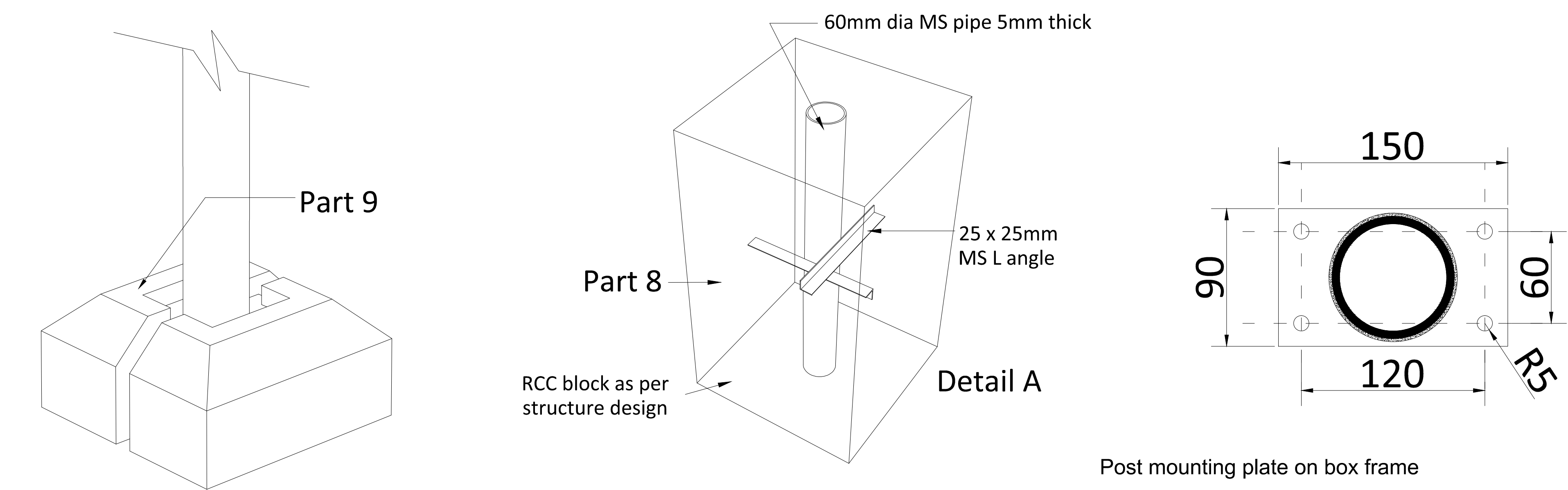


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| APPROVAL BY KMRL | | KOCHI METRO RAIL PROJECT | | SIGNAGE&GRAPHIC | |
| | | KOCHI METRO RAIL LIMITED | | | |
| | | SIGN NAME: LOCATION SIGN , POST MOUNTED | | | |
| DY CE | | STATUS: TENDER (TEKM /TENDER | | |  METRO |
| CE (D&C) | | SCALE: STF | DRG.NO: TEKM-T3M3-302.1.6P -1 | | |
| | | DATE: 30.12.15 | DRAWN BY: Deepak | | |
| | | REV.NO. A | CHECKED BY: PBS | | |





Exploded View



- MATERIAL NOTES :
- Part 1:** Sign panel, 5mm thick aluminum sheet power coated color RAL classic 7016.
- Part 2:** Sign panel, 5mm thick aluminum sheet power coated color PANTONE 2768 C wrap vinyl over it .
- Part 3:** Sign panel, 5mm thick aluminum sheet power coated color PANTONE 382 C wrap vinyl over it .
- Part 4:** - Post 60mm dia MS Circular Hollow Section PU Painted color RAL classic 7016 . Fixed With Foundation .
- Part 5:** M10 bolt for mounting box frame
- Part 6:** 150mm X 90mm X 5mm MS plate welded to 60mm MS circular Hollow section PU Painted color RAL classic 7016.
- Part 7:** 20X20X3mm thick equal L angle aluminum extrusion welded to sign panel powder coated color pantone 2768 C .
- Part 8:** Foundation PPC Foundation as per structural design
- Part 9:** Pedestal 300X300X150mm Sadarahalli stone . 3 Line Finish . PPC Poured to Fix .

- GENERAL NOTES:
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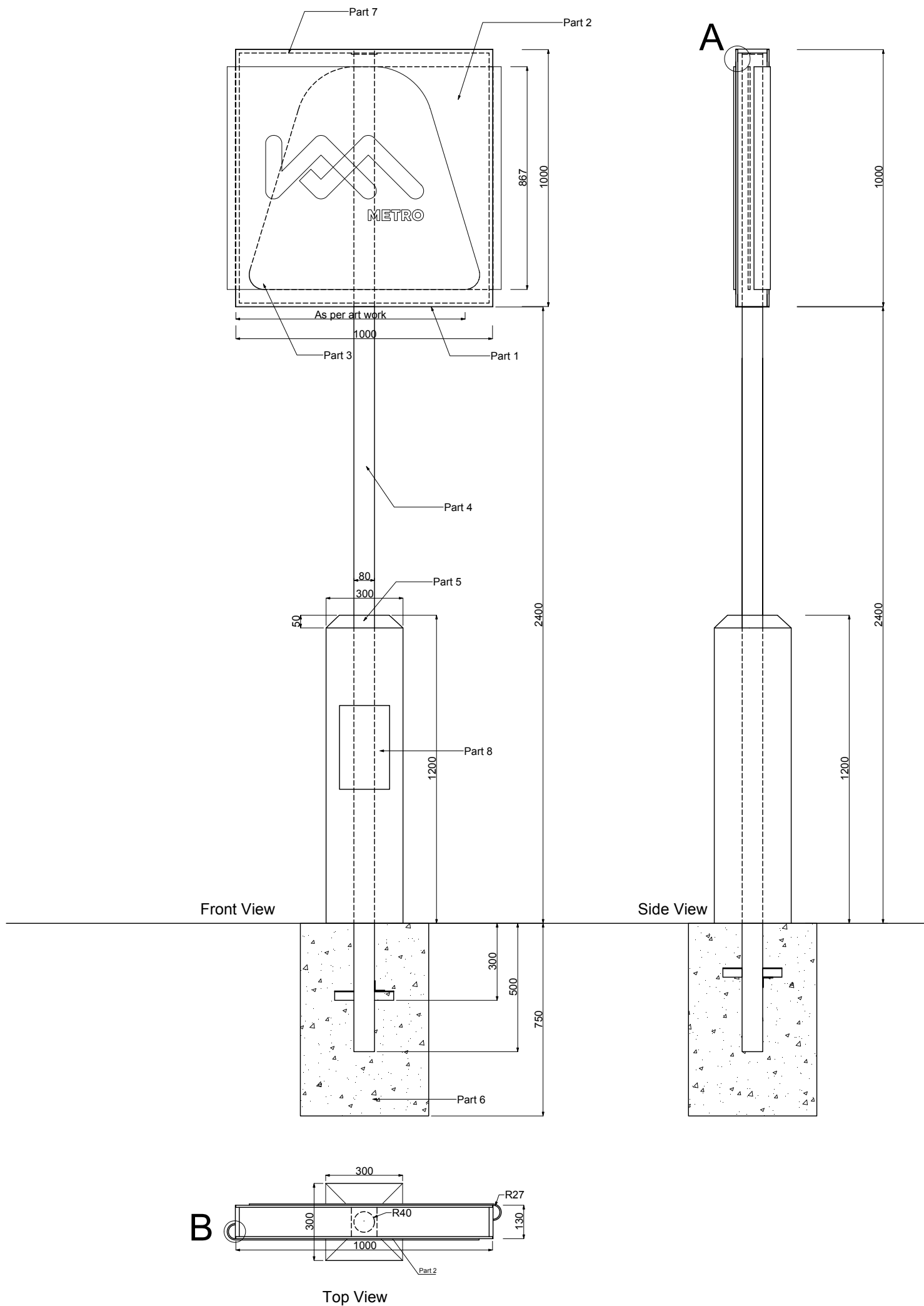
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Authorised Signatory for SGDC.

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| APPROVAL BY KMRL | KOCHI METRO RAIL PROJECT | | |
| DY CE | KOCHI METRO RAIL LIMITED | | |
| | SIGN NAME: LOCATION SIGN , POST MOUNTED | | |
| | STATUS: | TENDER (TEKM /TENDER | |
| | SCALE: STF | DRG.NO: TEK-M-T3M3-302.1.6P -2 | |
| CE (D&C) | DATE: 30.12.15 | DRAWN BY: Deepak | |
| | REV.NO. A | CHECKED BY: PBS | |

SIGNAGE&GRAPHICS



30mm thick acrylic, router cut according to lettering and pasted to aluminium from behind

5mm aluminium sheet

Logo fixing detail

LED lighting

15mm Aluminium extrusion frame

8mm ACP panel pasted with adhesive to aluminium frame

5mm aluminium sheet pasted to 8mm ACP

Detail A

15mm Aluminium extrusion frame

5mm aluminium bent to radius

8mm ACP panel pasted with adhesive and flushed to aluminium frame

Detail B

MATERIAL NOTES :

- Part 1: - Sign Box .
- 15mm thick 130mmwide aluminium extrusion.

- Powder coated in RAL classic 7016 .
- Part 2: - Sign Panel.
- 8mm thick ACP panel stuck with adhesive and flushed to aluminium frame
- Part 3: - Sign Panel.
- 5mm thick aluminium sheet router cut according to logo profile
- Part 4 : - Post
- 80mm dia MS circular Hollow Section
- PU Painted color Grey G#
- Fixed With Foundation
- Part 5 : -Pedestal.
-1200mm x 400mm circular profile Sadarahalli stone.
-3 Line Finish
- PPC Poured to fix.
- Part 6 : -Foundation
-PPC Foundation as per stuctural design.
- Part 7 : LED lighting at top and bottom as per further detail
- Part 8 : Junction Box, fibre glass box, 250 x 210 x 100

GENERAL NOTES:

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APPROVAL BY KMRL KOCHI METRO RAIL PROJECT

KOCHI METRO RAIL LIMITED

SIGN NAME: Totem sign illuminated,2-sided

DY CE STATUS: TENDER (TEKM /TENDER

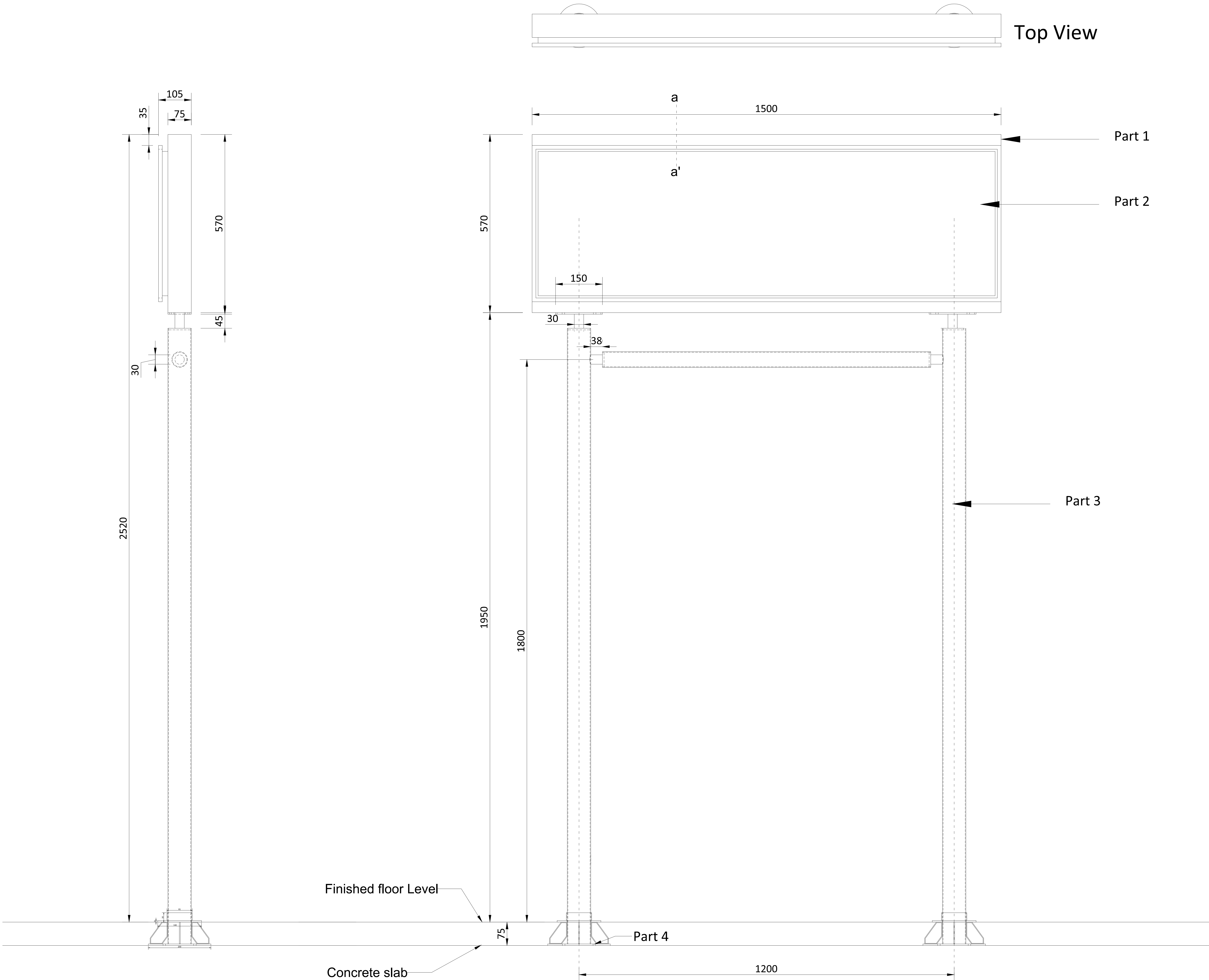
SCALE: STF DRG.NO: TEKM-T3M3-302.4 P -1

DATE: 01.03.12 DRAWN BY: Dinesh

CE (D&C) REV.NO. 1 CHECKED BY: Puneet



SIGNAGE&GRAPHICS



MATERIAL NOTES :

- Part 1:** Sign box, 2mm thick aluminum sheet CNC bend, powder coated in RAL CLASSIC 7016 color
- Part 2:** Sign panel, 2mm aluminum powder coated in white attached in profile frame.
- Part 3:** Mounting post, 80mm dia, 5mm thick MS circular section, PU painted in RAL CLASSIC 7016 color
- Part 4:** Anchor Fastener 12mm

- GENERAL NOTES:
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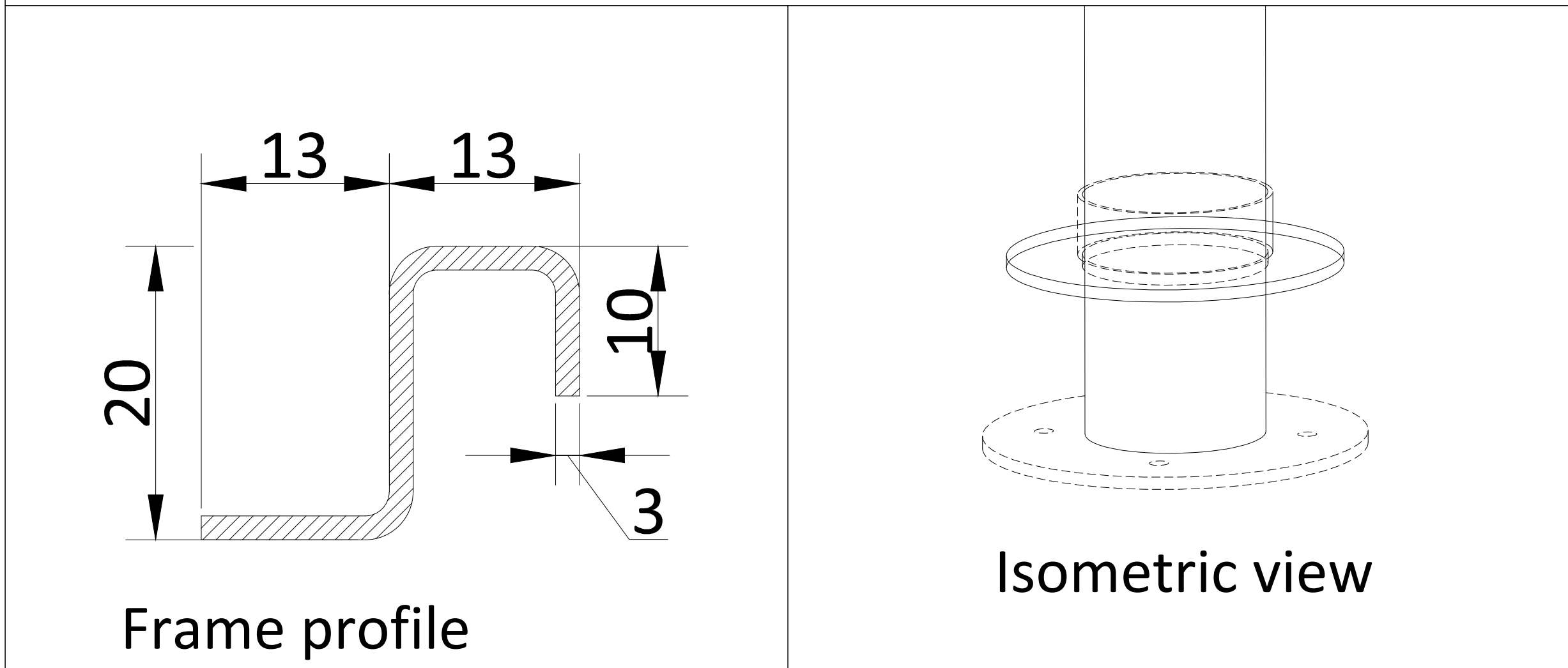
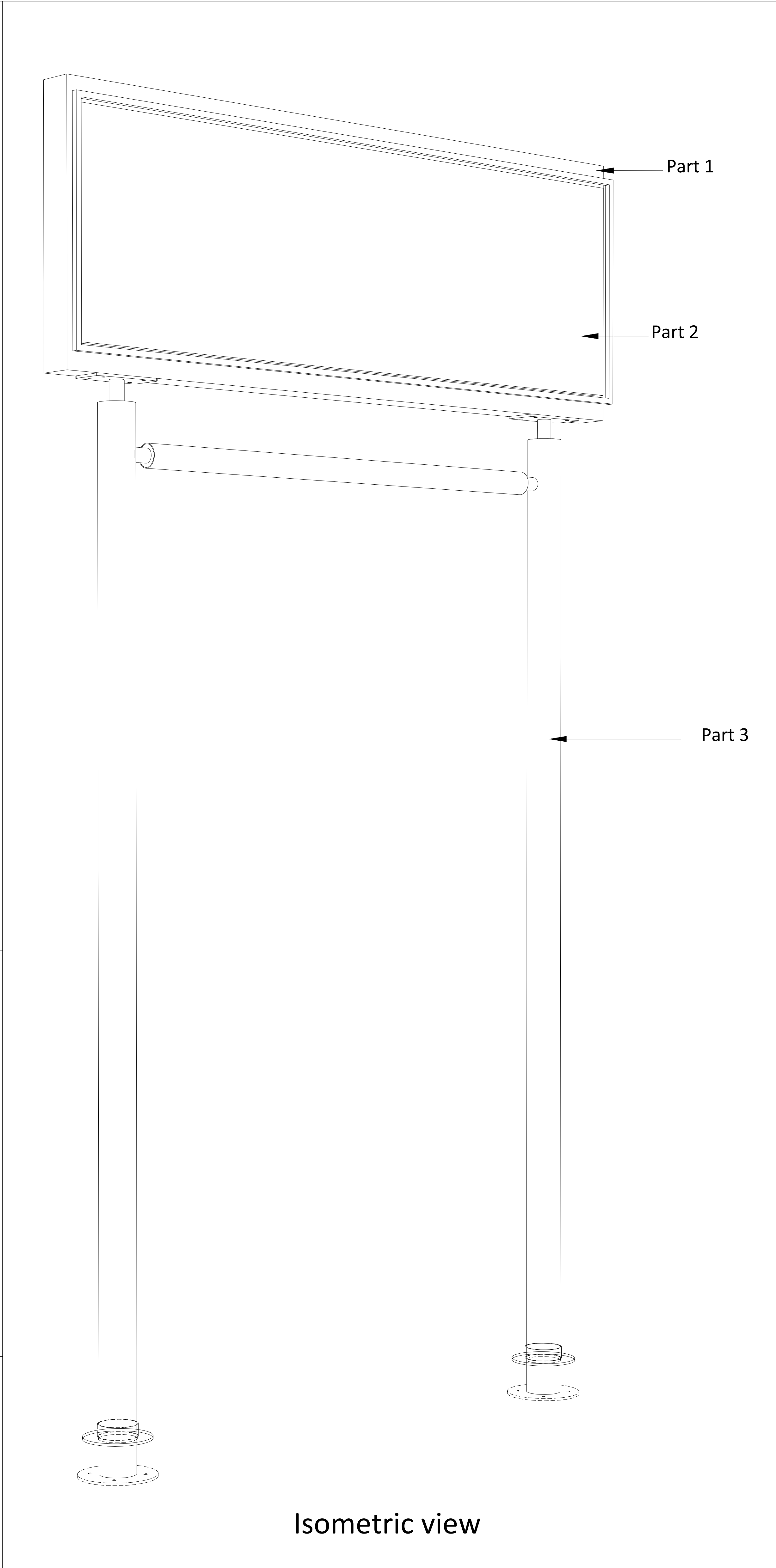
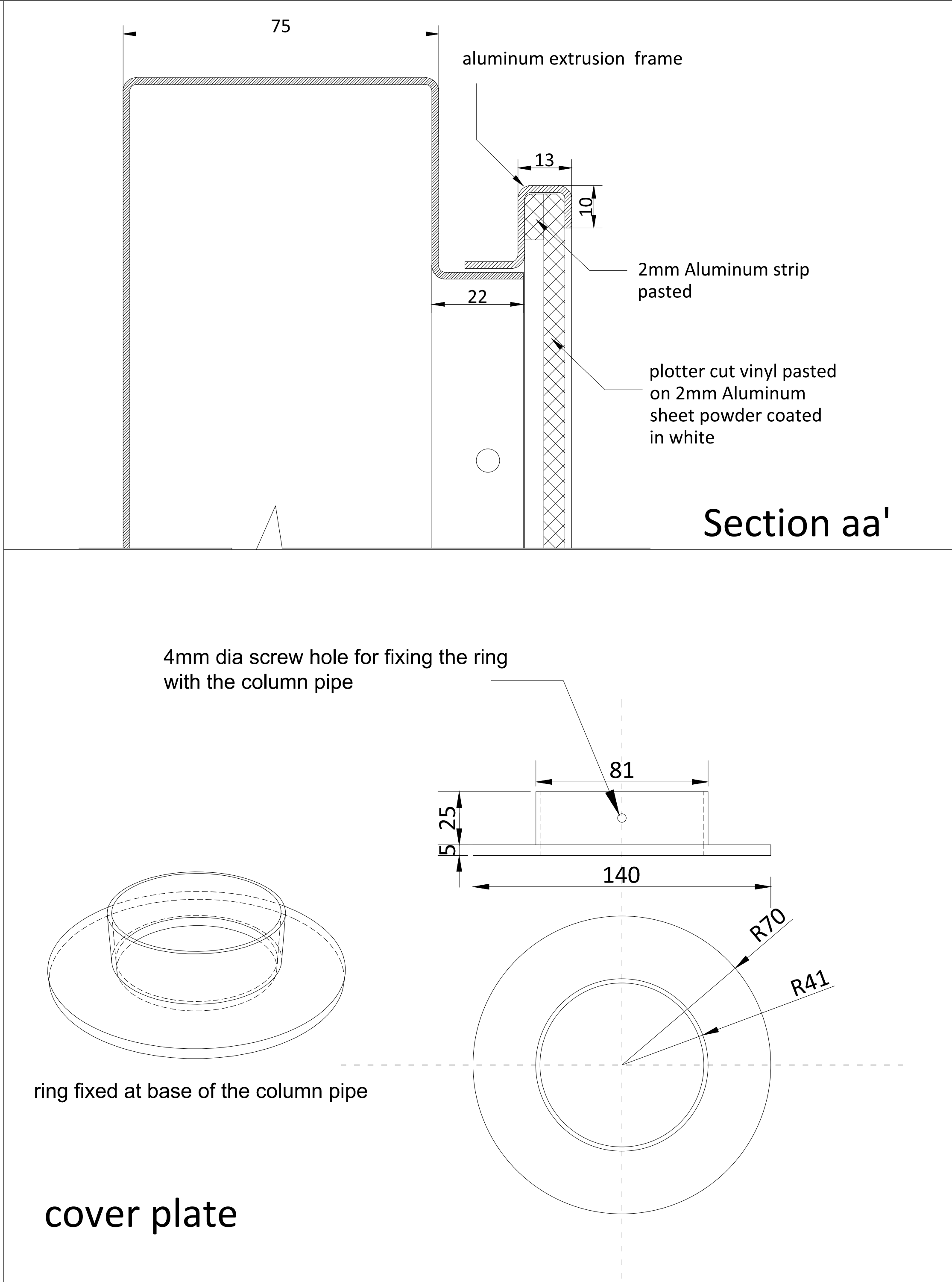
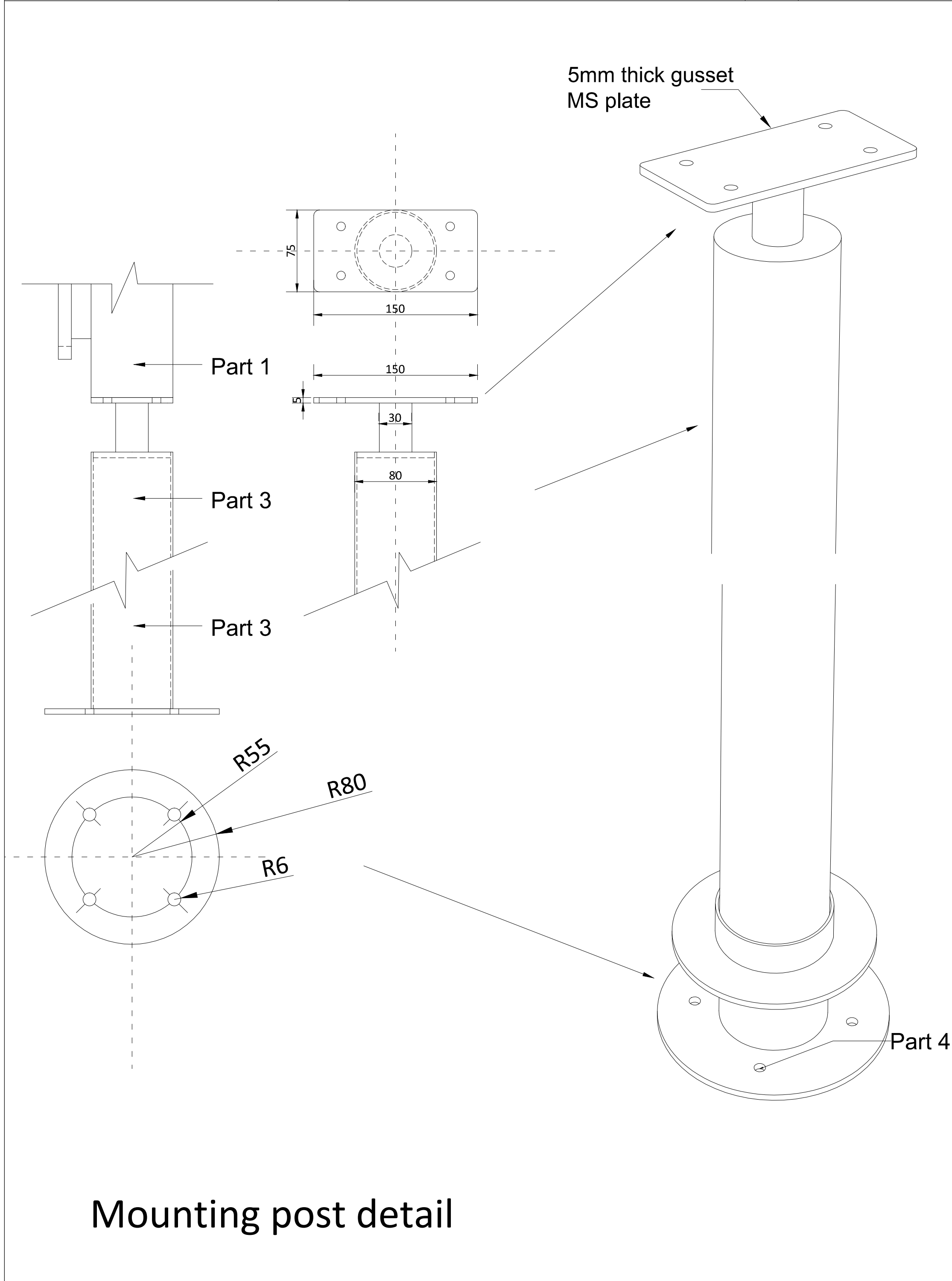
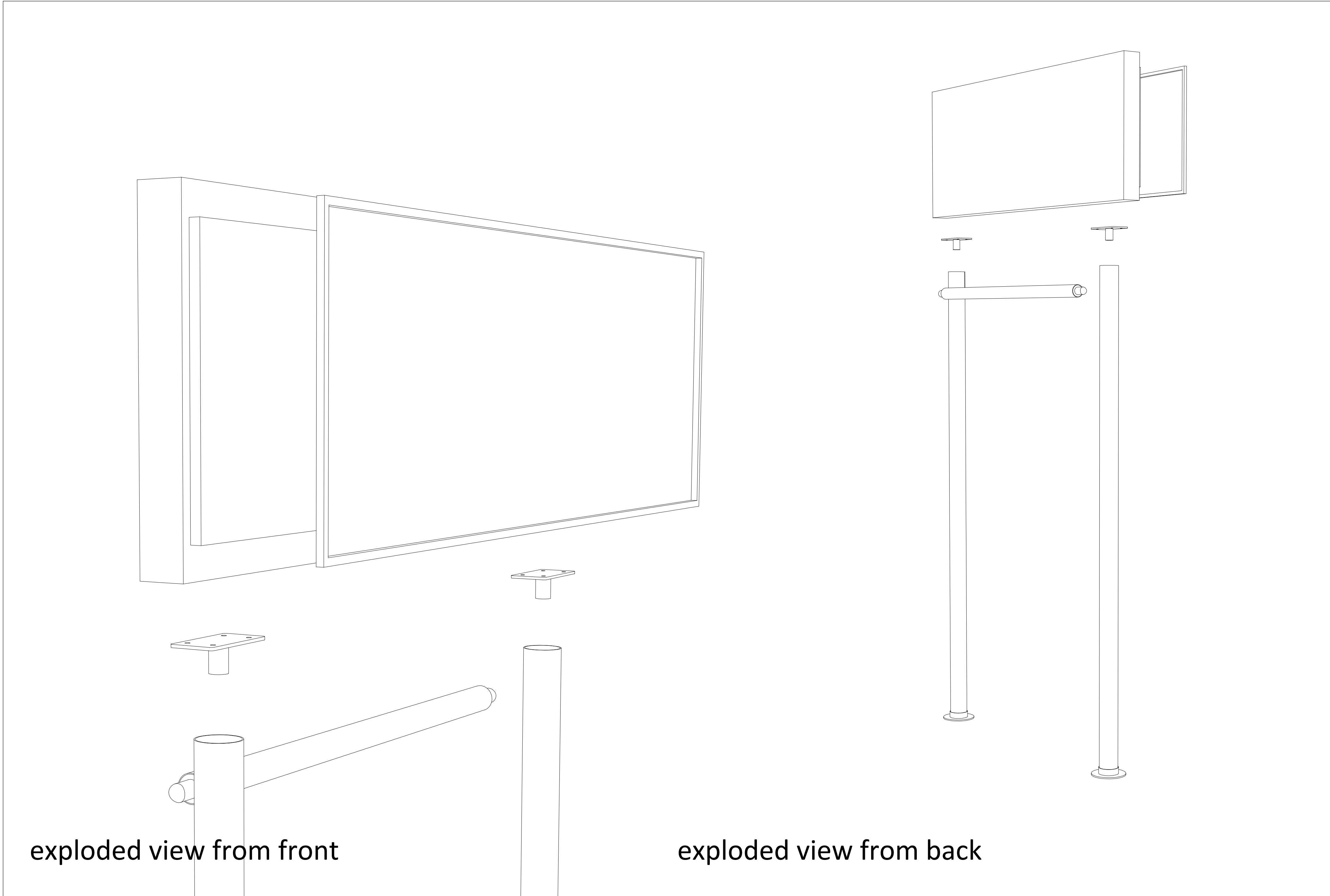
SIGNAGE AND GRAPHICS DESIGN CONSULTANT

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(Name and Designation)
Authorised Signatory for SGDC.

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| APPROVAL BY KMRL | KOCHI METRO RAIL PROJECT | |  SIGNAGE&GRAPHICS |
| DY CE | KOCHI METRO RAIL LIMITED | | |
| | SIGN NAME: PLATFORM NAME | | |
| | STATUS: TENDER (TEKM /TENDER | | |
| CE (D&C) | SCALE: STF | DRG.NO: TEKM-T3M3-302.1.7P-01 | |
| | DATE: 30.12.15 | DRAWN BY: Deepak | |
| | REV.NO. A | CHECKED BY: PBS | |



- MATERIAL NOTES :
- Part 1:** Sign box, 2mm thick aluminum sheet CNC bend, powder coated in RAL CLASSIC 7016 color
- Part 2:** Sign panel, 2mm aluminum powder coated in white attached in profile frame.
- Part 3:** Mounting post, 80mm dia, 5mm thick MS circular section, PU painted in RAL CLASSIC 7016 color

- GENERAL NOTES:
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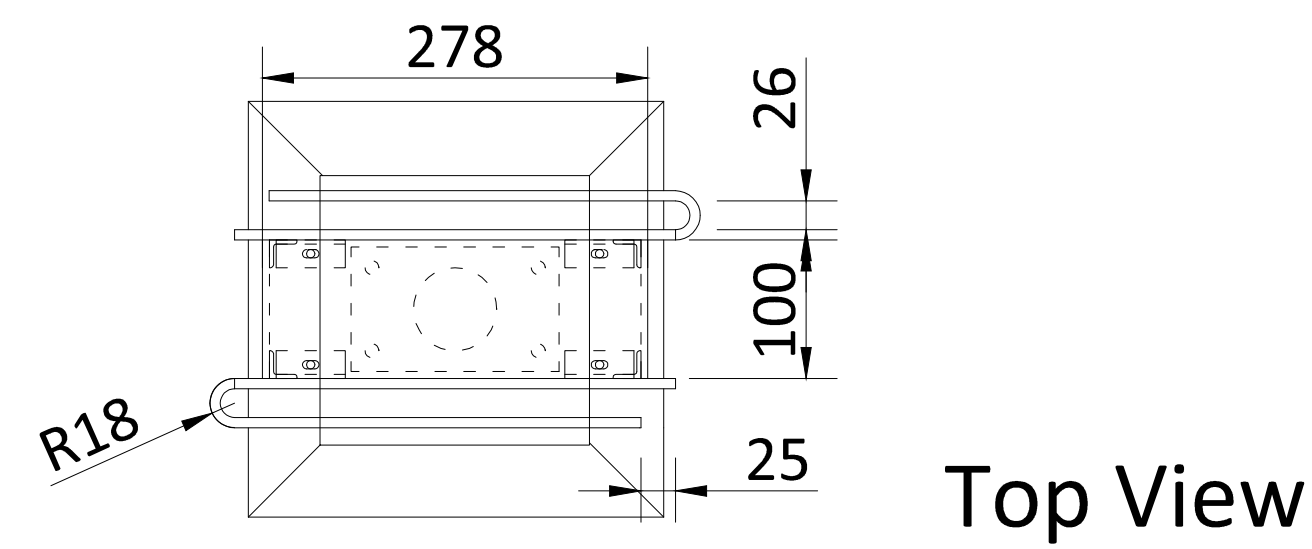
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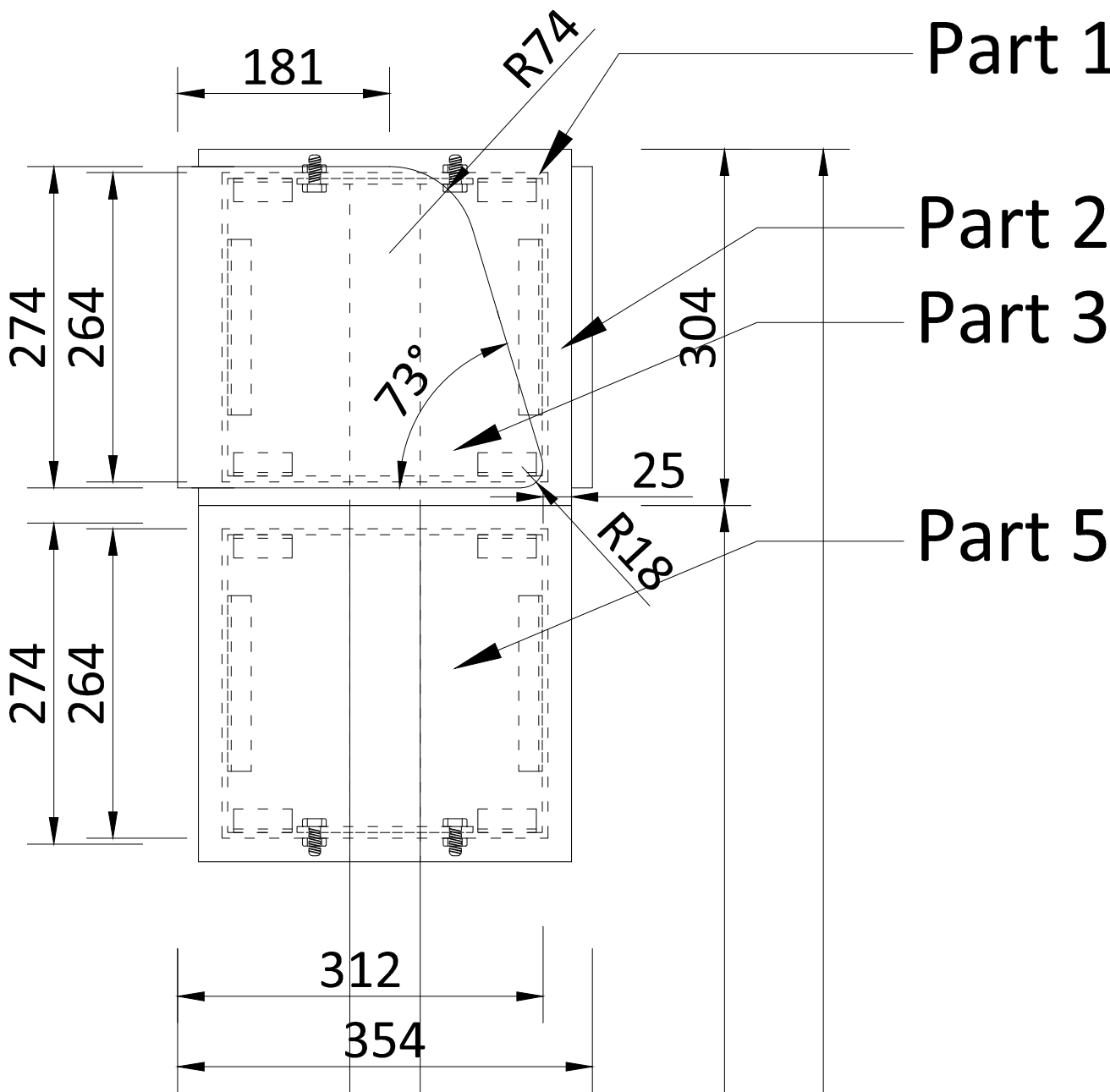
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| | KOCHI METRO RAIL LIMITED | | |
| | SIGN NAME: PLATFORM NAME | | |
| DY CE | STATUS: | TENDER (TEKM /TENDER | |
| | SCALE: STF | DRG.NO: TEK-M-T3M3-302.1.7P-02 | |
| | DATE: 30.12.15 | DRAWN BY: Deepak | |
| CE (D&C) | REV.NO. A | CHECKED BY: PBS | |



Top View

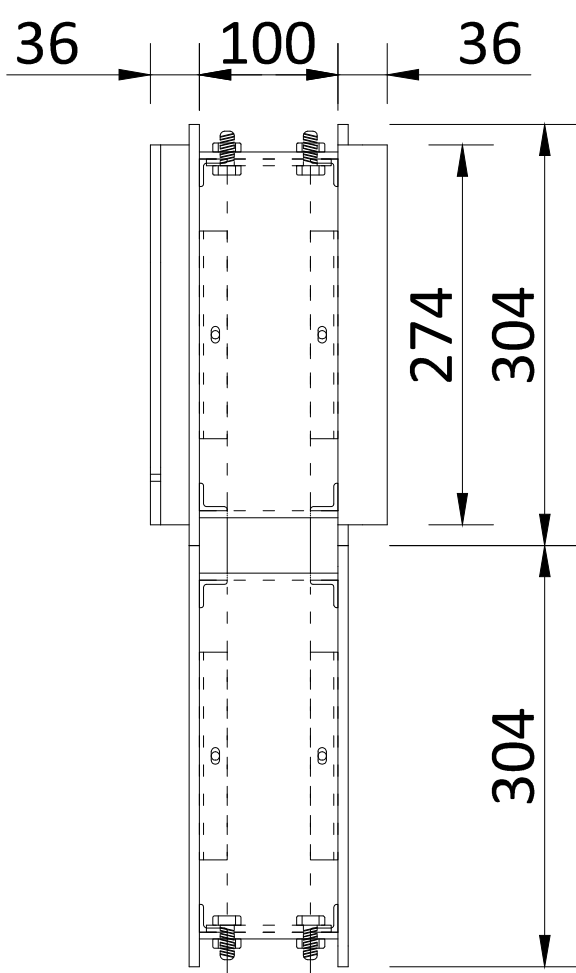


Part 1

Part 2

Part 3

Part 5

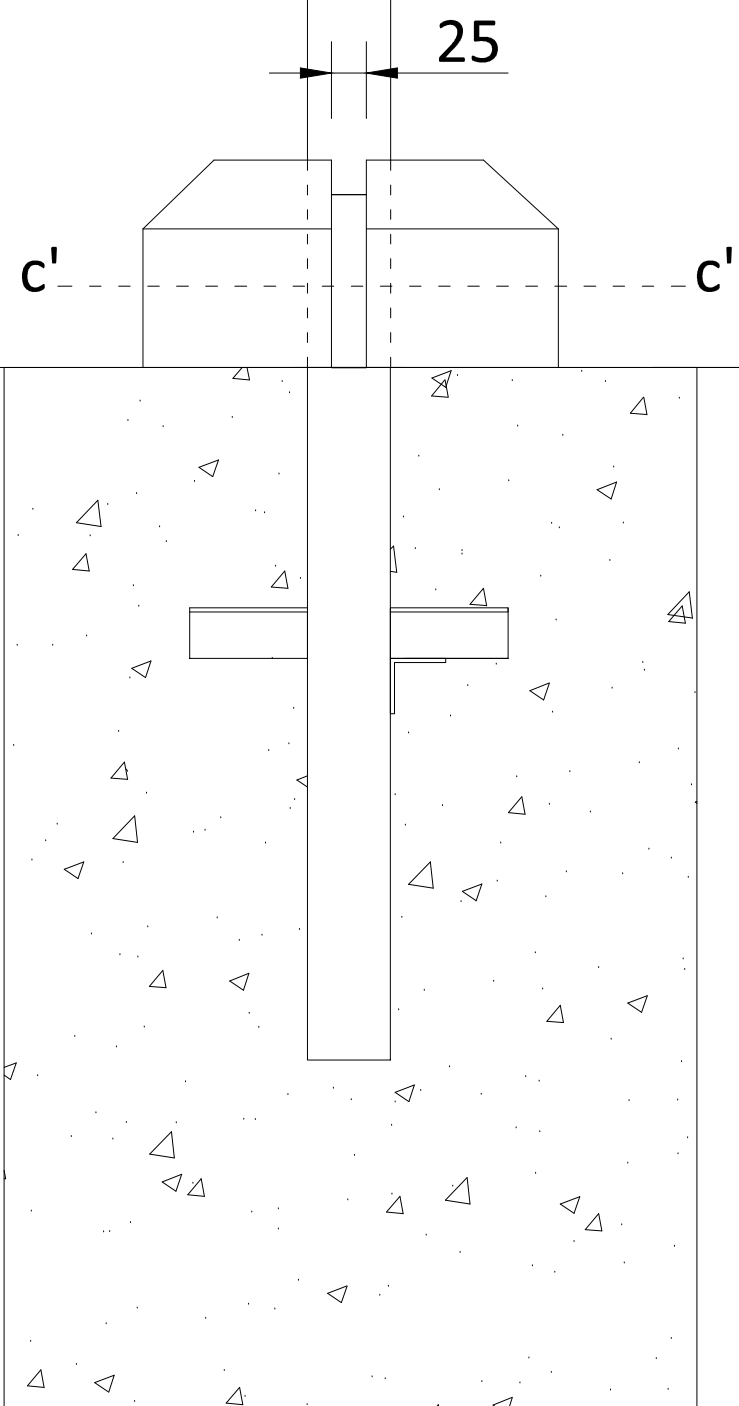


Part 4

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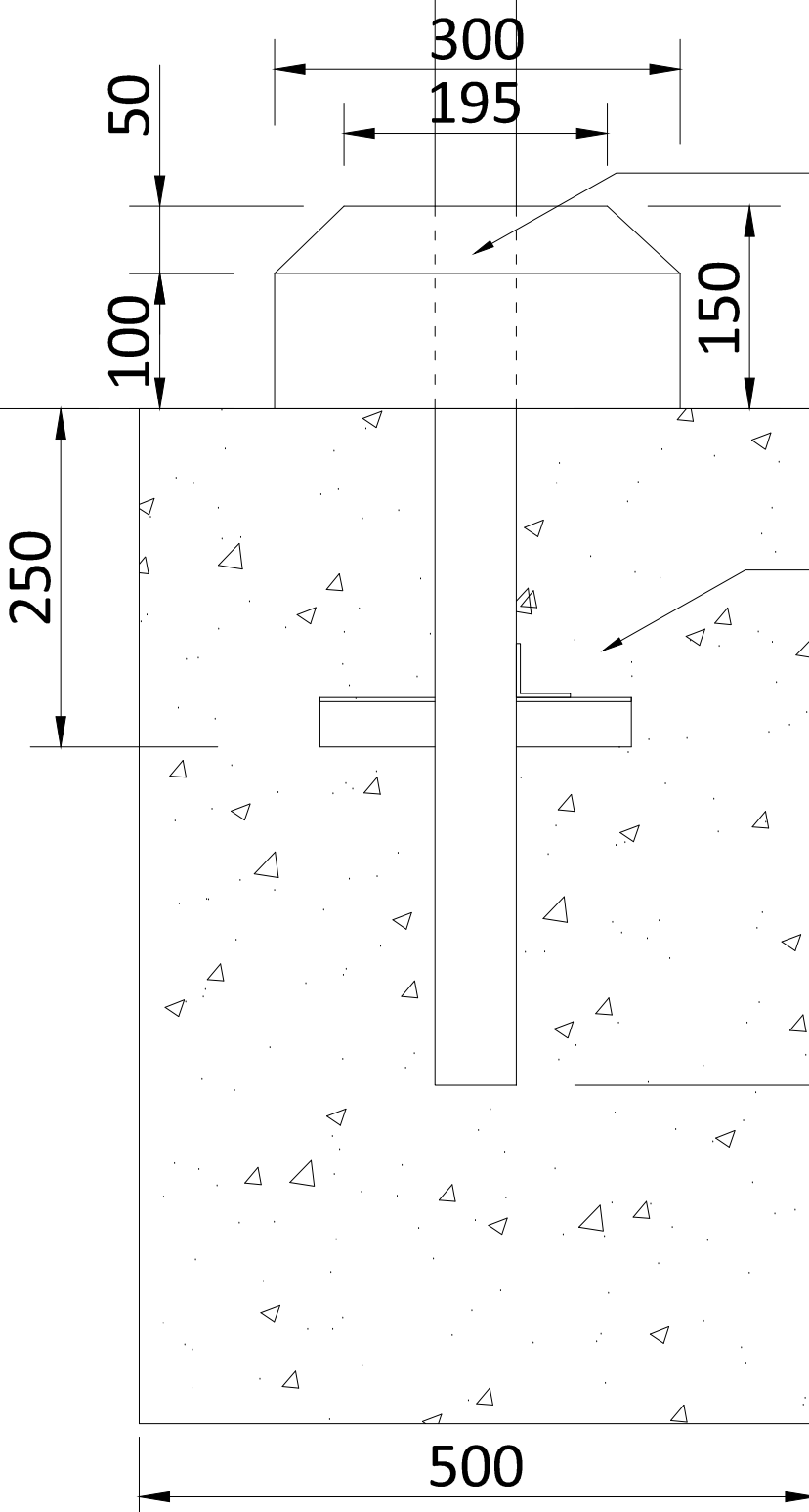
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Side



Detail A

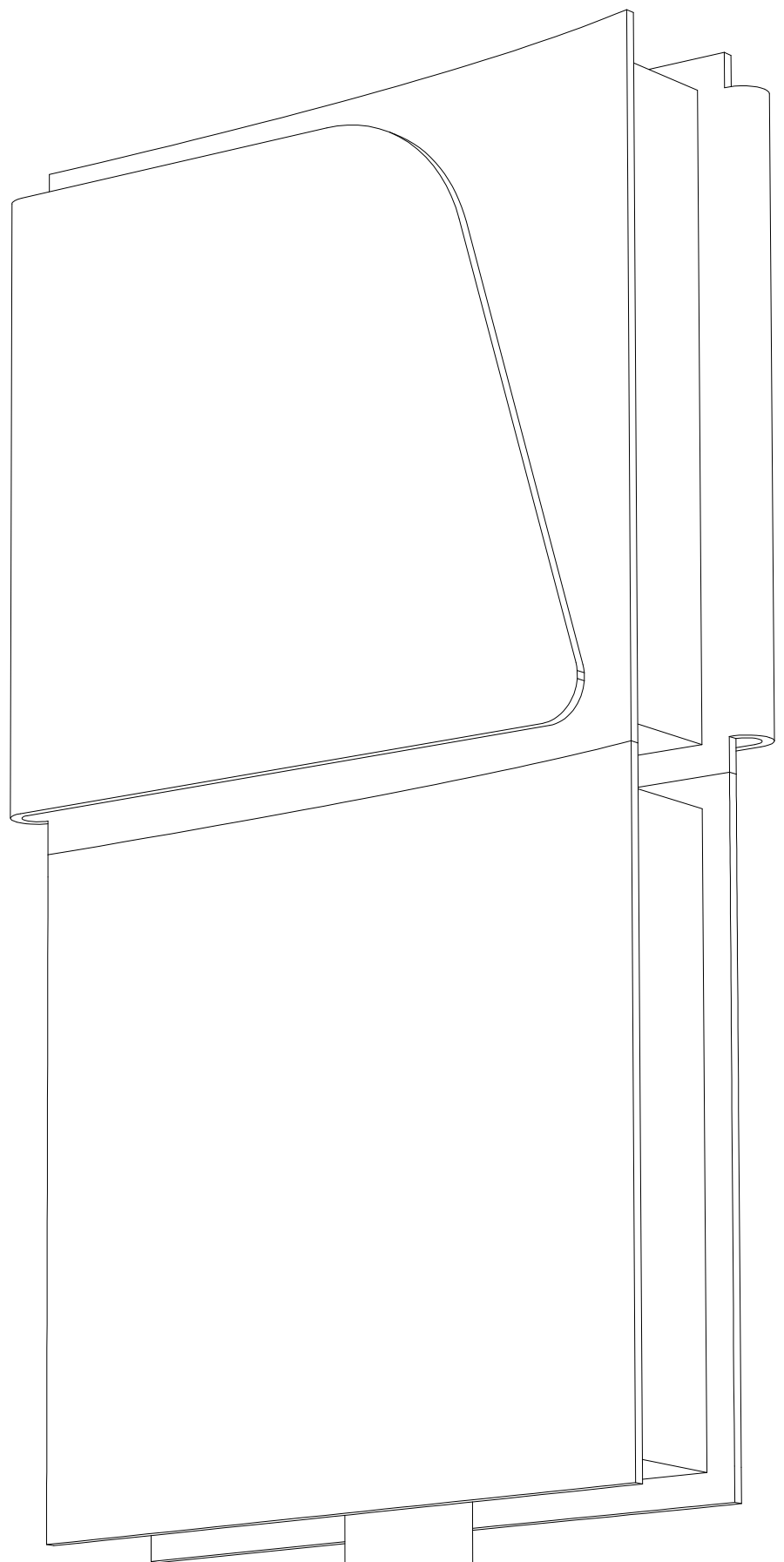
Front



Part 4

Part 8

* for foundation details refer to structural dwg



Isometric View

MATERIAL NOTES :

Part 1: Sign panel, 5mm thick aluminum sheet power coated color RAL classic 7016.

Part 2: Sign panel, 5mm thick aluminum sheet power coated color PANTONE 2768 C wrap vinyl over it .

Part 3: Sign panel, 5mm thick aluminum sheet power coated color PANTONE 382 C wrap vinyl over it .

Part 4: - Post 60mm dia MS Circular Hollow Section PU Painted color RAL classic 7016 . Fixed With Foundation .

Part 5: Sign panel, 5mm thick aluminum sheet power coated color PANTONE 382 C wrap vinyl over it .

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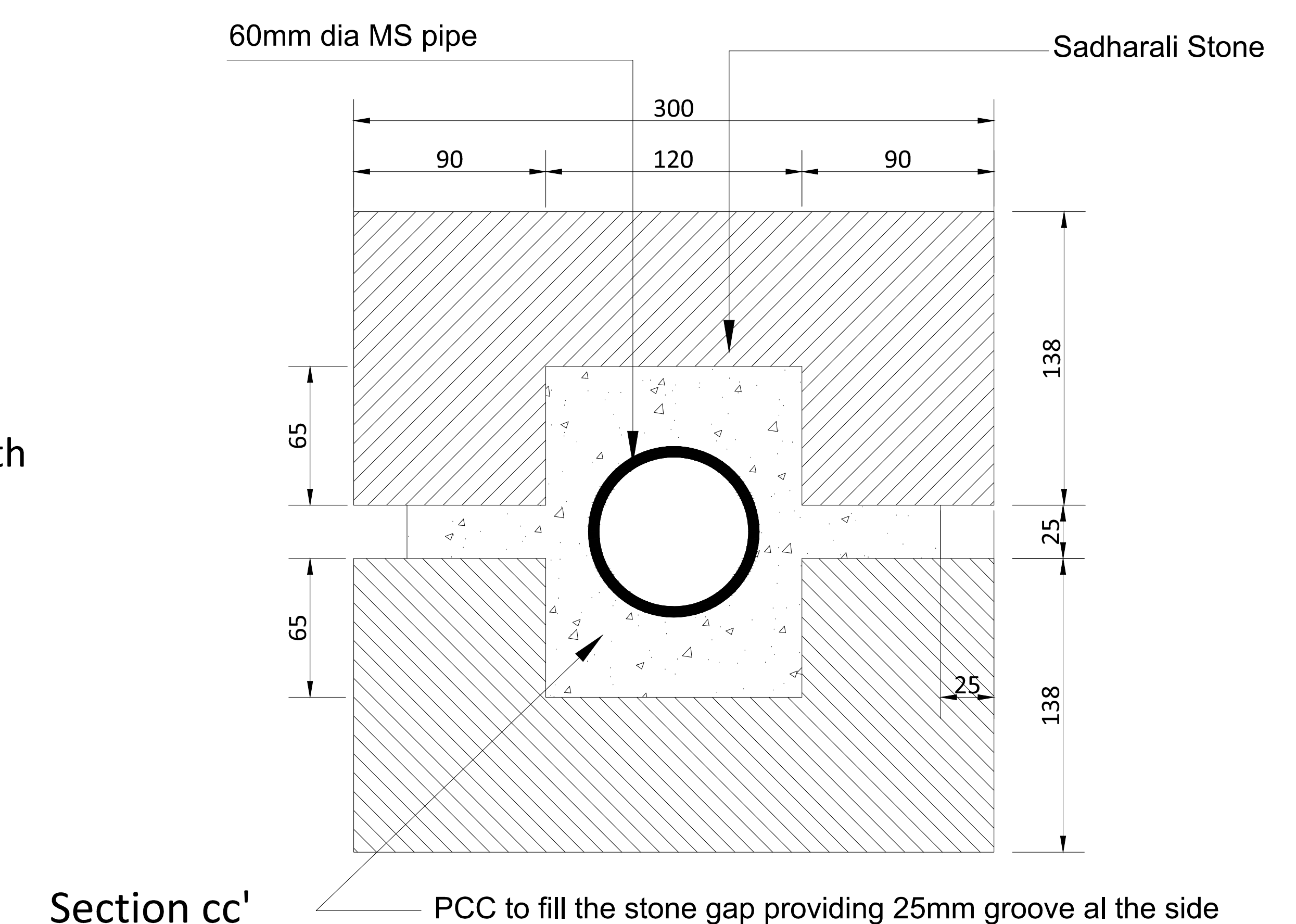
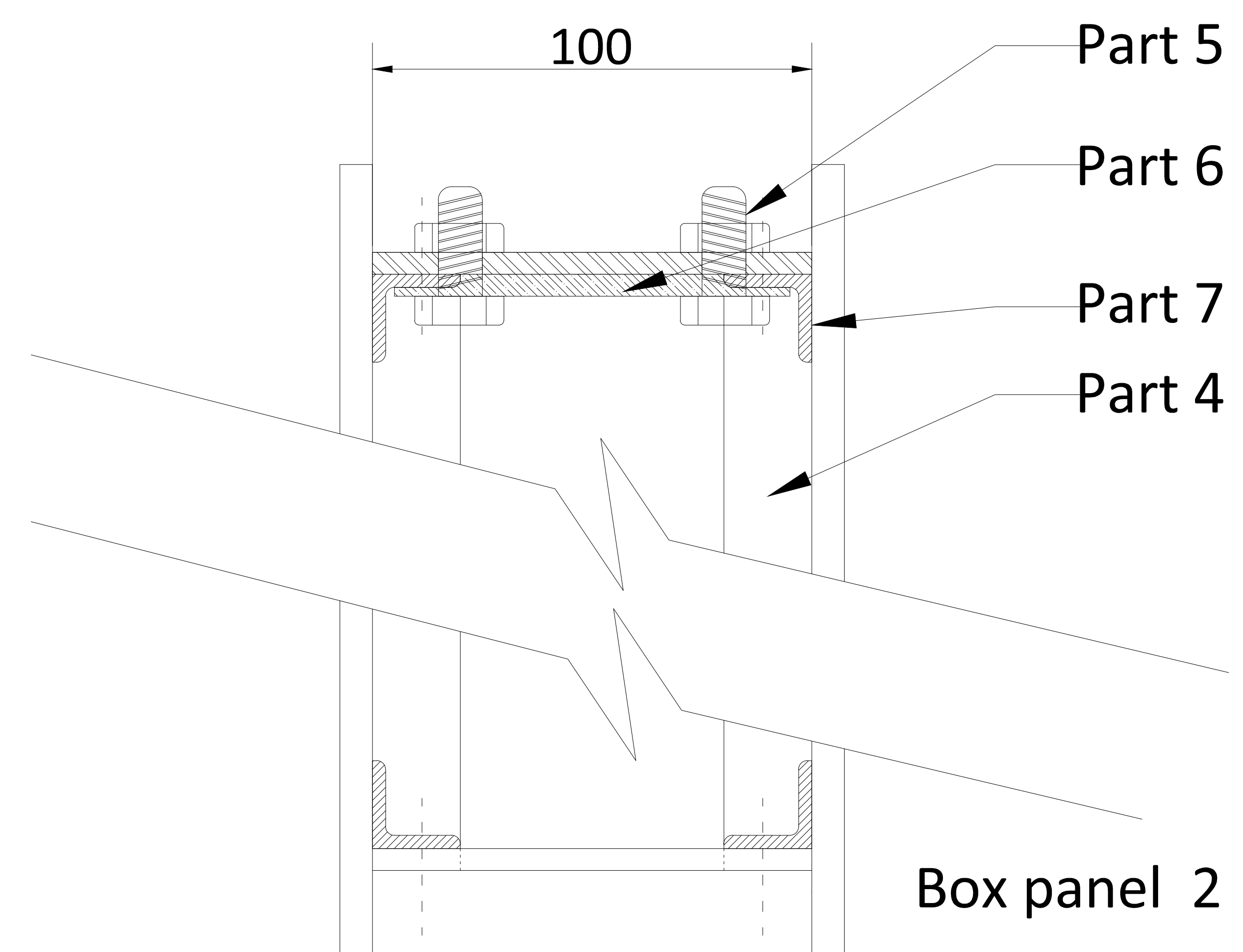
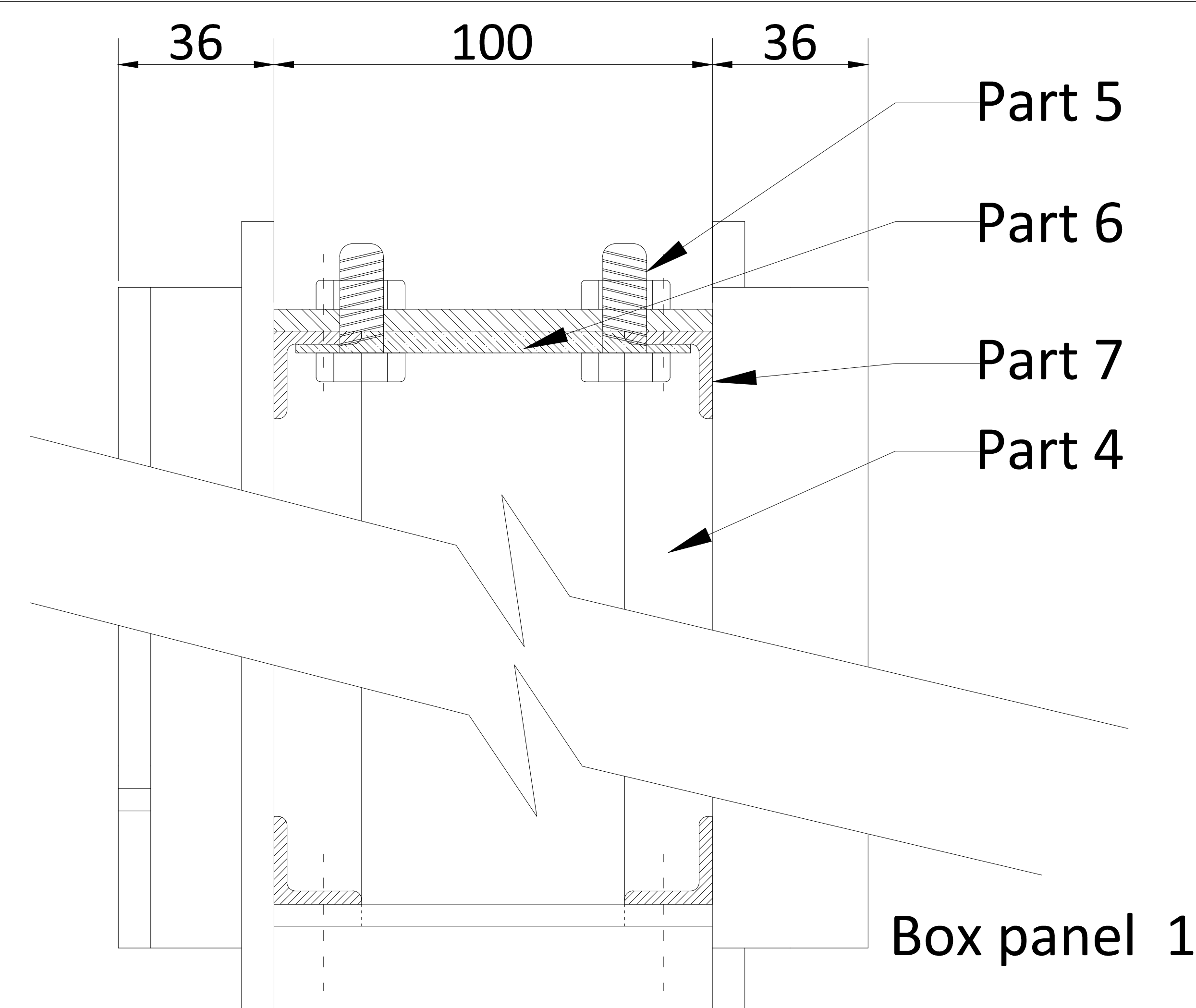
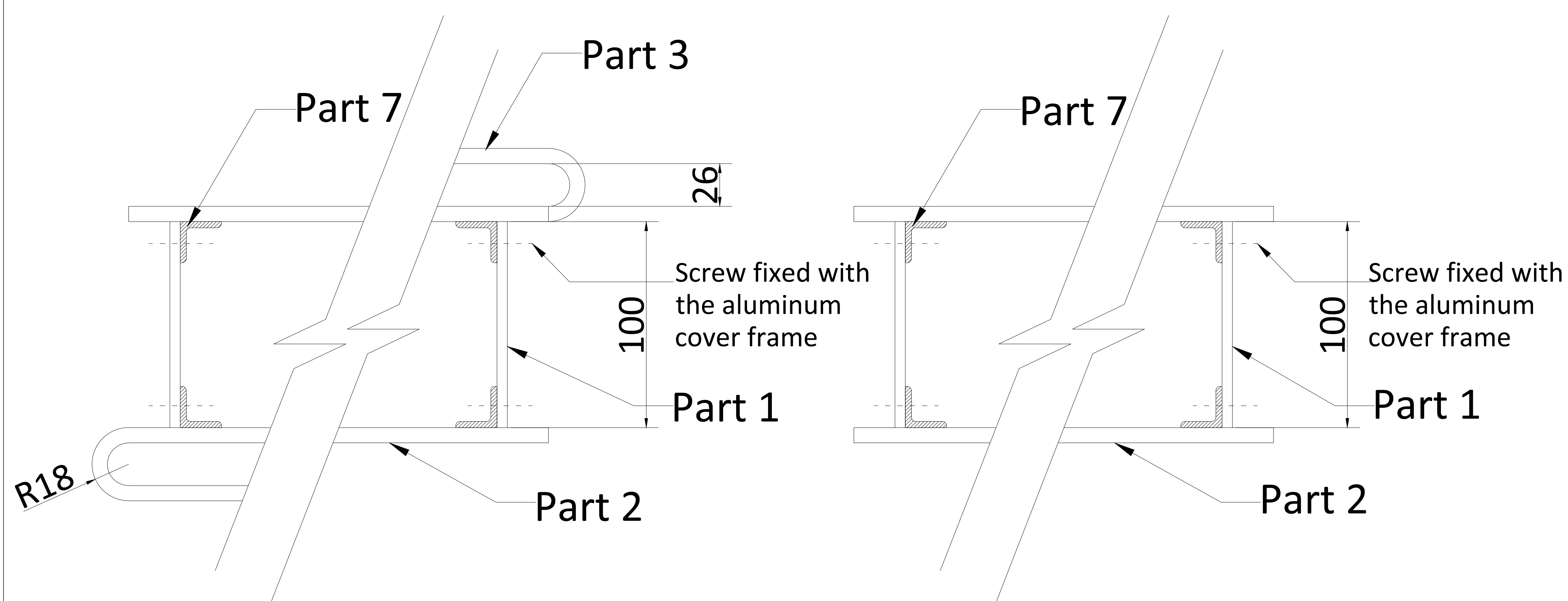
(Name and Designation)
Authorised Signatory for SGDC.

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| APPROVAL BY KMRL | KOCHI METRO RAIL PROJECT | | |
| DY CE | KOCHI METRO RAIL LIMITED | | |
| | SIGN NAME: LOCATION SIGN , POST MOUNTED | | |
| | STATUS: | TENDER (TEKM /TENDER | |
| | SCALE: STF | DRG.NO: TEKM-T3M3-302.1.8P -1 | |
| CE (D&C) | DATE: 08.02.16 | DRAWN BY: Deepak | |
| | REV.NO. A | CHECKED BY: PBS | |

SIGNAGE&GRAPHICS



MATERIAL NOTES :

Part 1: Sign panel, 5mm thick aluminum sheet power coated color RAL classic 7016.

Part 2: Sign panel, 5mm thick aluminum sheet
power coated color PANTONE 2768 C
wrap vinyl over it .

Part 3: Sign panel, 5mm thick aluminum sheet
power coated color PANTONE 382 C
wrap vinyl over it .

Part 4: - Post 60mm dia MS Circular Hollow Section
PU Painted color RAL classic 7016 .
Fixed With Foundation .

Part 5: M10 bolt for mounting box frame

Part 6: 150mm X 90mm X 5mm MS plate welded to 60mm MS circular Hollow section PU Painted color RAL classic 7016.

Part 7: 20X20X3mm thick equal L angle aluminum extrusion welded to sign panel powder coated color pantone 2768 C .

Part 8: Foundation PPC Foundation as per structural design

Part 9: Pedestal 300X300X150mm Sadarahalli stone .
3 Line Finish . PPC Poured to Fix .

GENERAL NOTES:

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- ALL DIMENSIONS ARE TO BE READ AND NOT MEASURED.
- ANY DISCREPANCIES MUST BE BROUGHT TO THE NOTICE OF THE CONSULTANT BEFORE EXECUTION OF WORK AT SITE.
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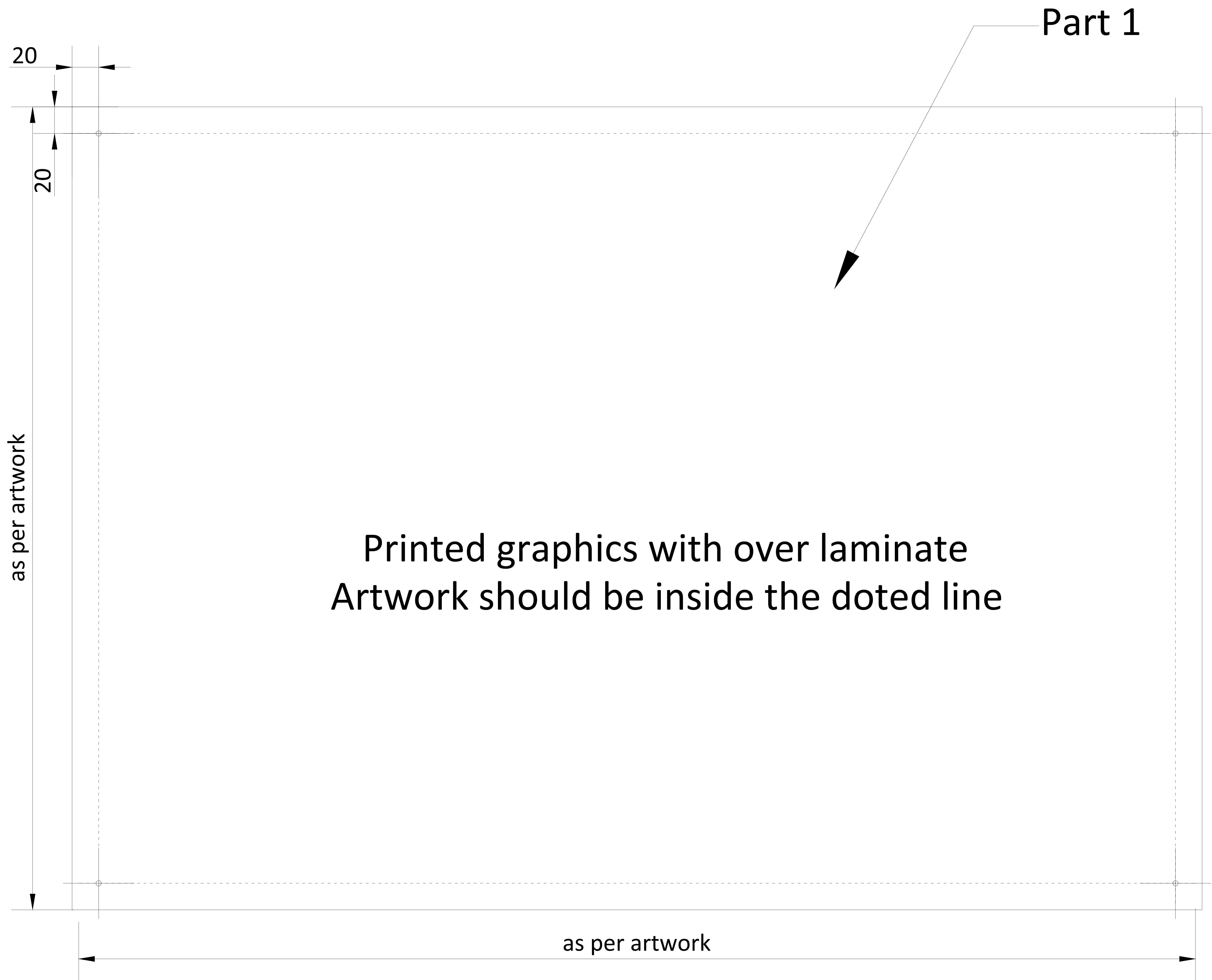
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| | DATE: 08.02.16 | DRAWN BY: Deepak | |
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Printed graphics with over laminate
Artwork should be inside the doted line

MATERIAL NOTES :

Part 1: Sign panel, 2mm thick aluminum plate
power coated color PANTONE 2768 C
wrap vinyl over it .

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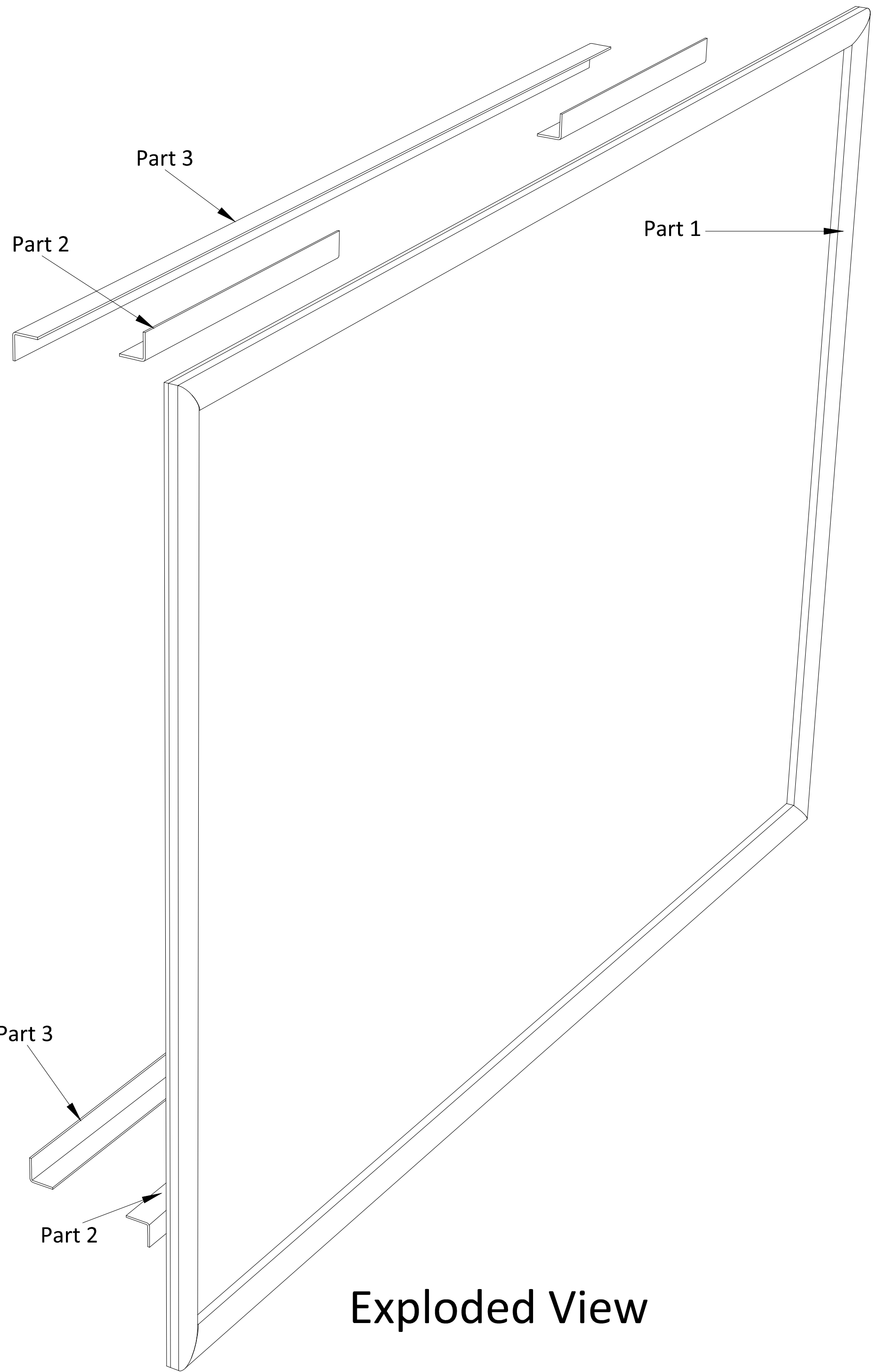
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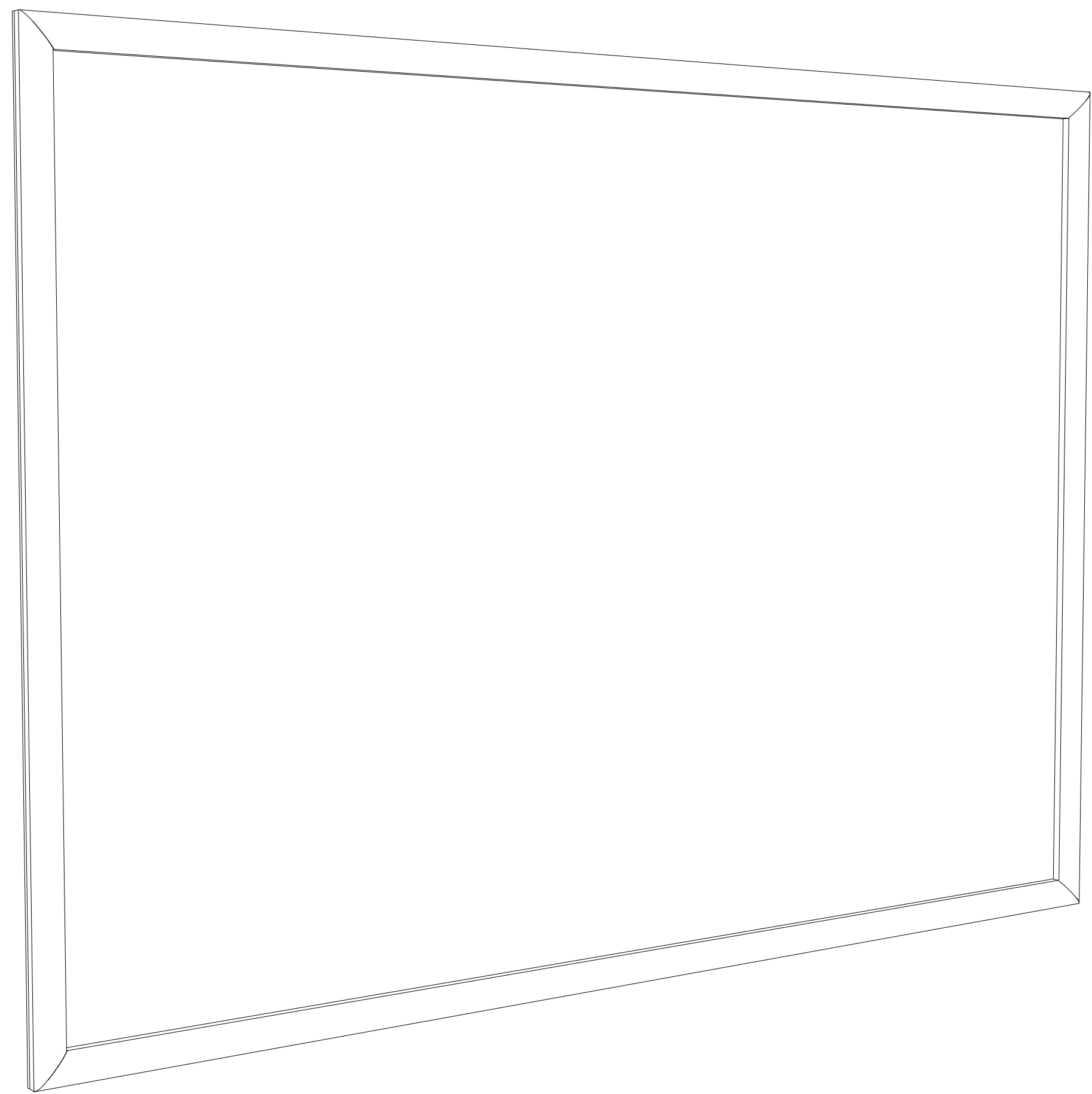
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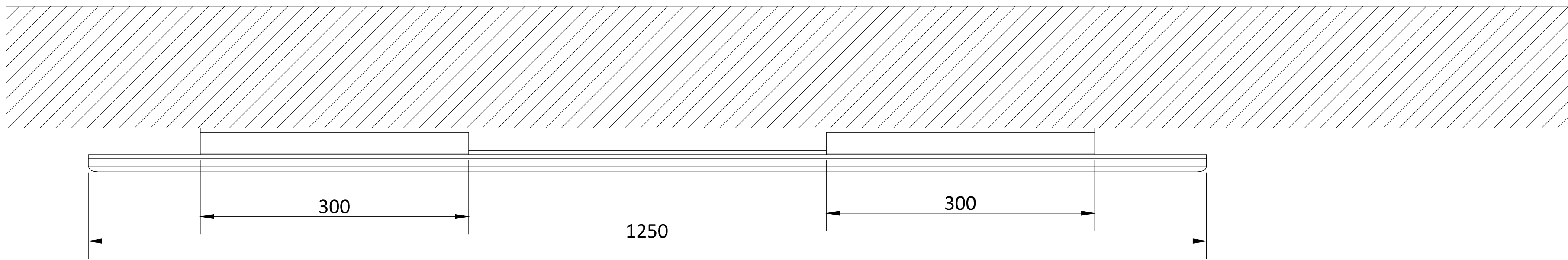
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| | KOCHI METRO RAIL LIMITED | | | |
| | SIGN NAME: PLATE SIGN , FACE MOUNTED | | | |
| DY CE | STATUS: TENDER (TEKM /TENDER | |  METRO | |
| | SCALE: STF | DRG.NO: TEKM-T3M3-302.5P-01 | | |
| | DATE: 30.12.15 | DRAWN BY: Deepak | | |
| CE (D&C) | REV.NO. A | CHECKED BY: PBS | | |



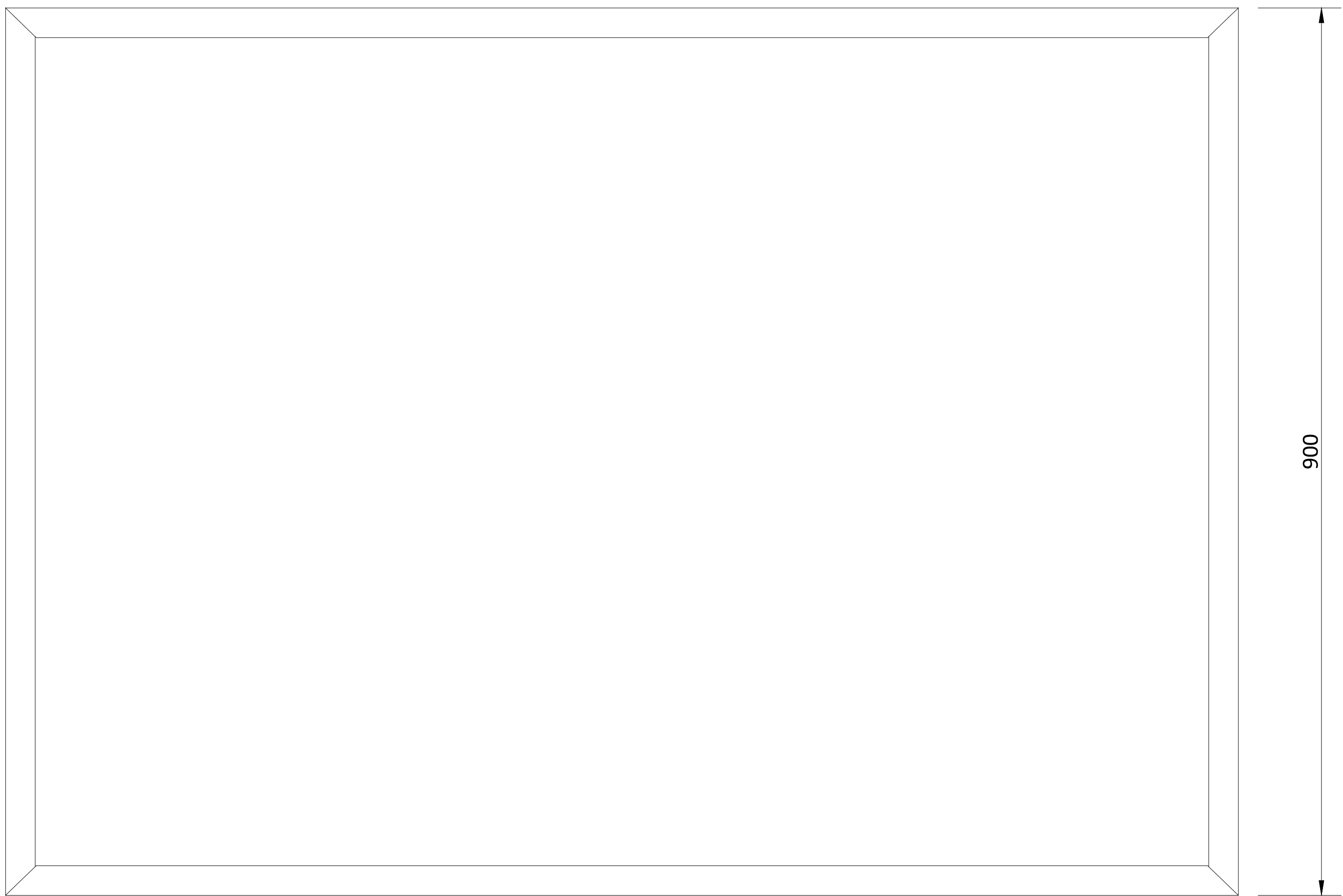
Exploded View



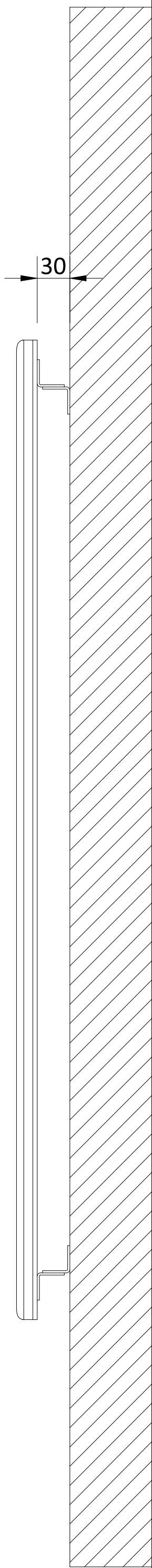
Isometric view



Top View



Front



Side

MATERIAL NOTES :

Part 1: Sign panel, 2mm thick power coated aluminum sheet color RAL classic 7016 vinyl pasted on 2mm thick sunboard sandwiched with 4mm polycarbonate hold into 30x20mm snap frame aluminum extrusion powder coated in RAL classic 7016.

Part 2: 25X25X3mm MS Equal angle cleat powder coated in color RAL classic 7016.

Part 3: supporting angle, 25X25X3mm MS Equal angle cleat powder coated in color RAL classic 7016.

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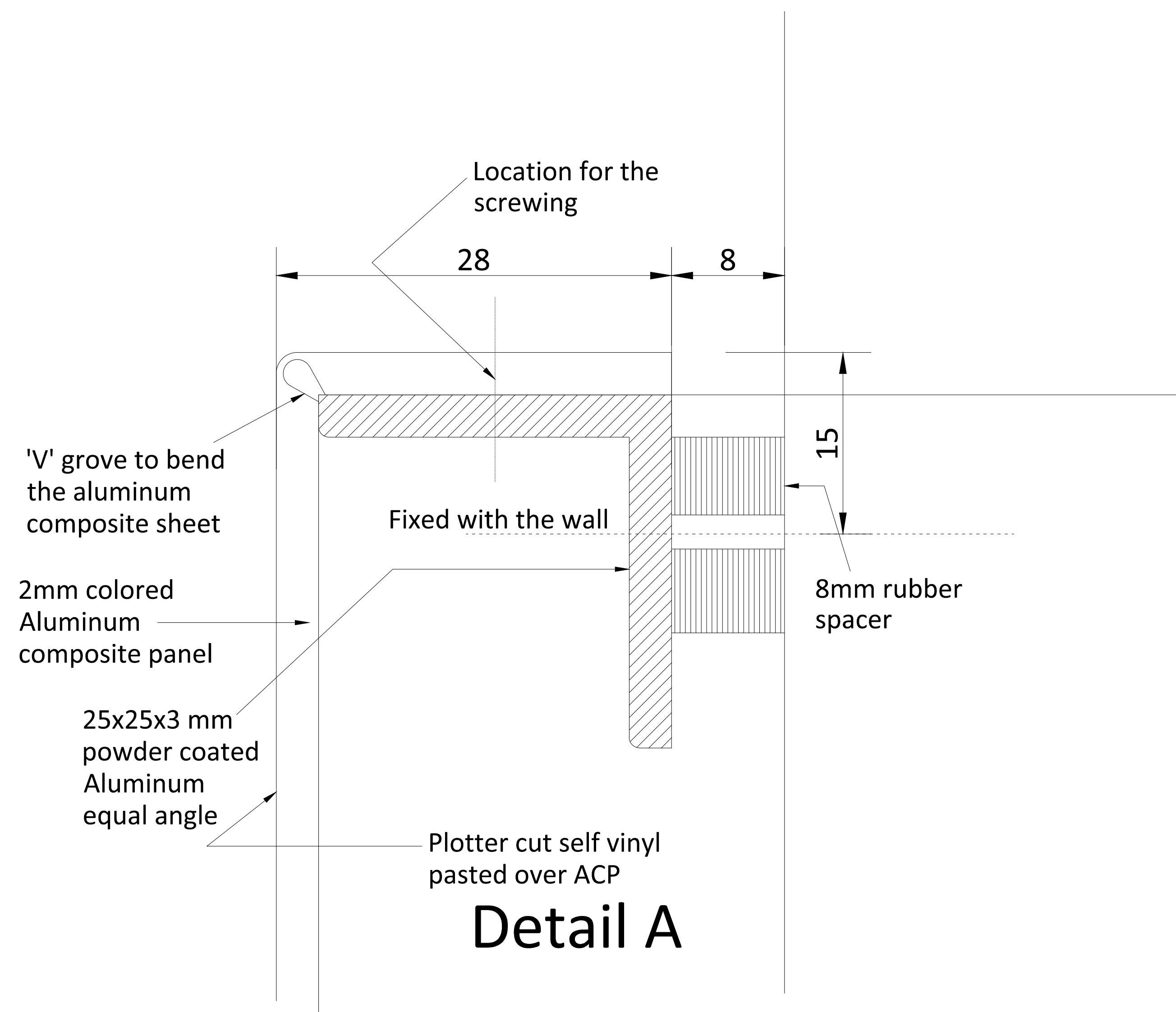
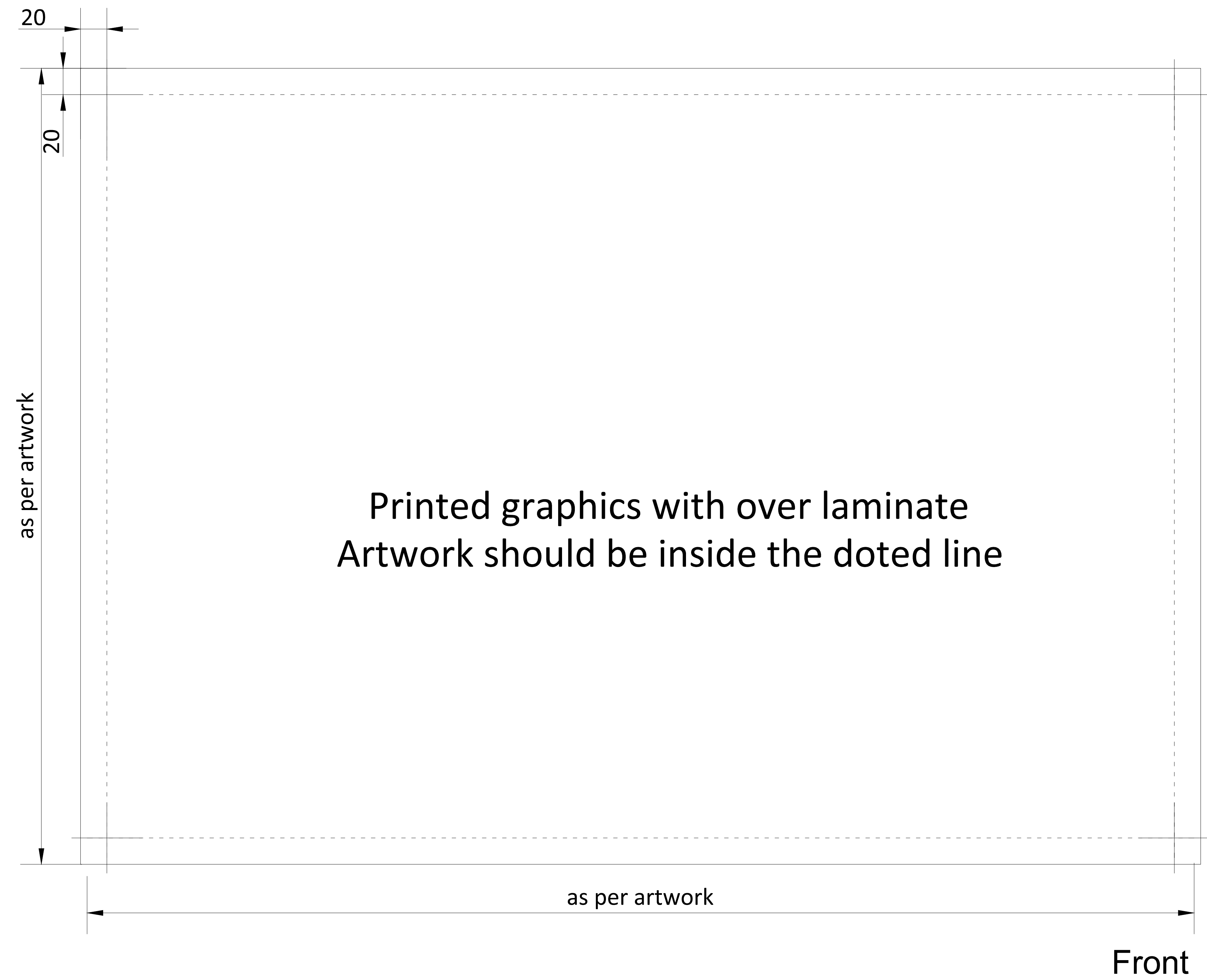
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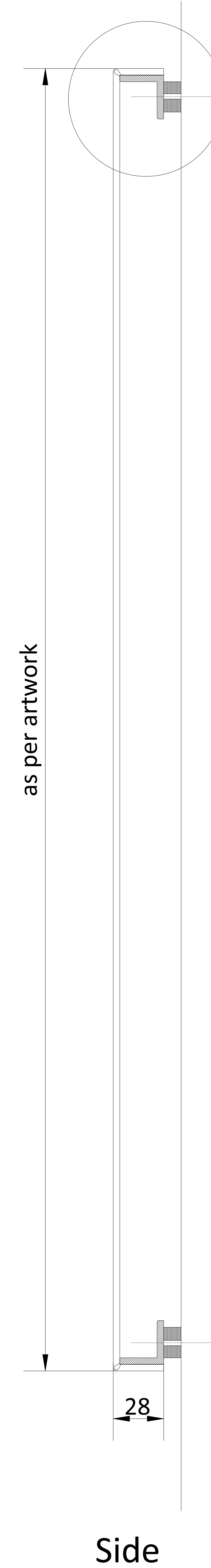


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| DY CE | KOCHI METRO RAIL LIMITED | | |
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| | STATUS: TENDER (TEKM /TENDER | | |
| CE (D&C) | SCALE: STF | DRG.NO: TEK-M-T3M3-303.1.1P-01 | |
| | DATE: 30.12.15 | DRAWN BY: Deepak | |
| | REV.NO. A | CHECKED BY: PBS | |

SIGNAGE&GRAPHICS



Detail A



MATERIAL NOTES :

Part 1: Sign panel, 2mm thick Aluminum composite panel colored PANTONE 2768 C wrap vinyl over it .

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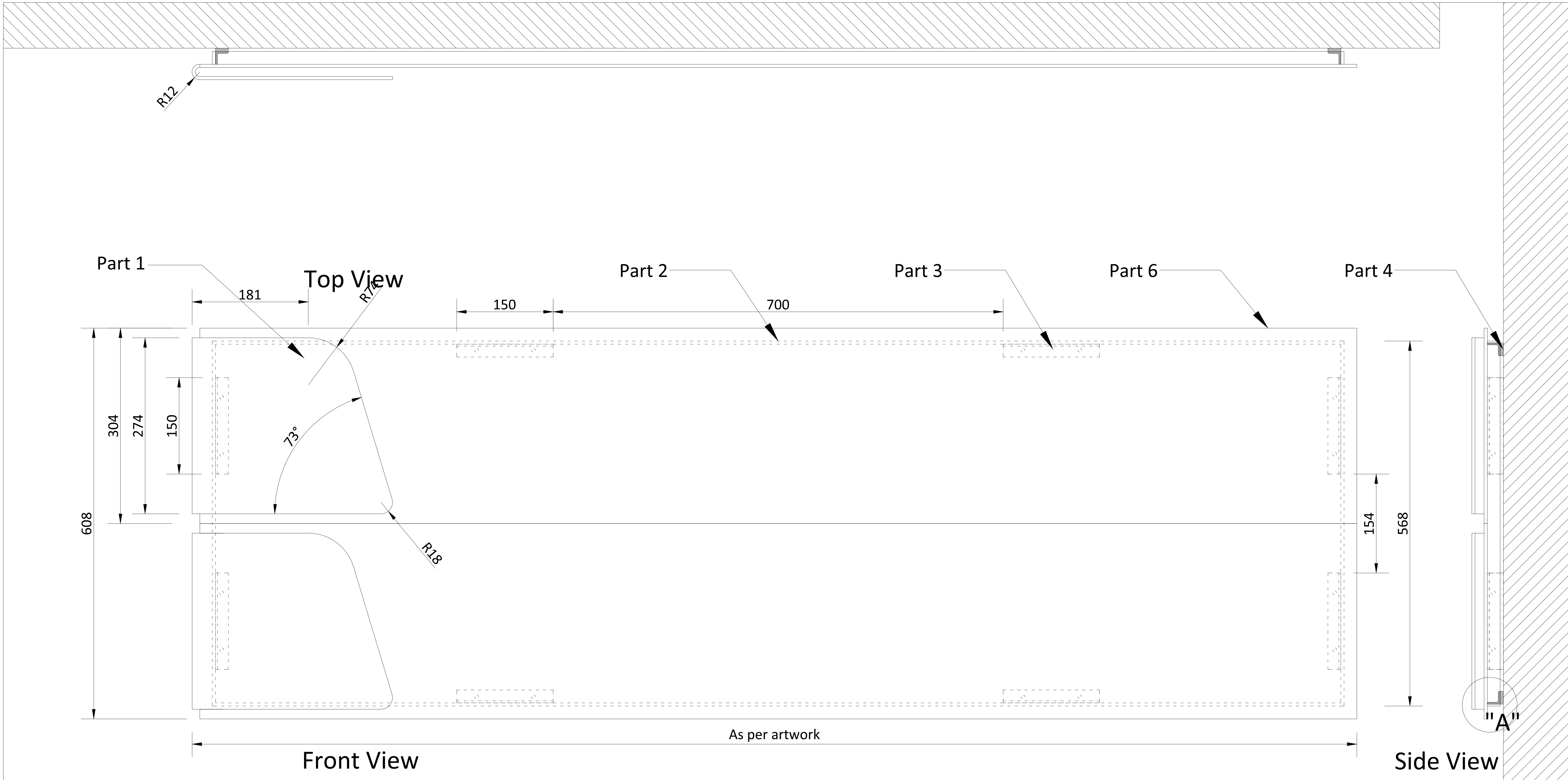
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| | DATE: 30.12.15 | DRAWN BY: Deepak | | |
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MATERIAL NOTES :

- Part 1:** Sign panel, 5mm thick aluminum sheet power coated color PANTONE 382 C wrap vinyl over it .
- Part 2:** 20mm depth 3mm thick aluminum sheet welded to Part 1 cleat powder coated color RAL classic 7016.
- Part 3:** 20X20X3mm thick equal L angle aluminum extrusion powder coated color RAL classic 7016.
- Part 4:** The frame could be mounted on the wall using a screw and rubber spacer.
- Part 5:** 3mm thick aluminum screw to equal L angle
- Part 6:** Sign panel, 5mm thick aluminum sheet power coated color PANTONE 2768 C wrap vinyl over it .

- GENERAL NOTES:
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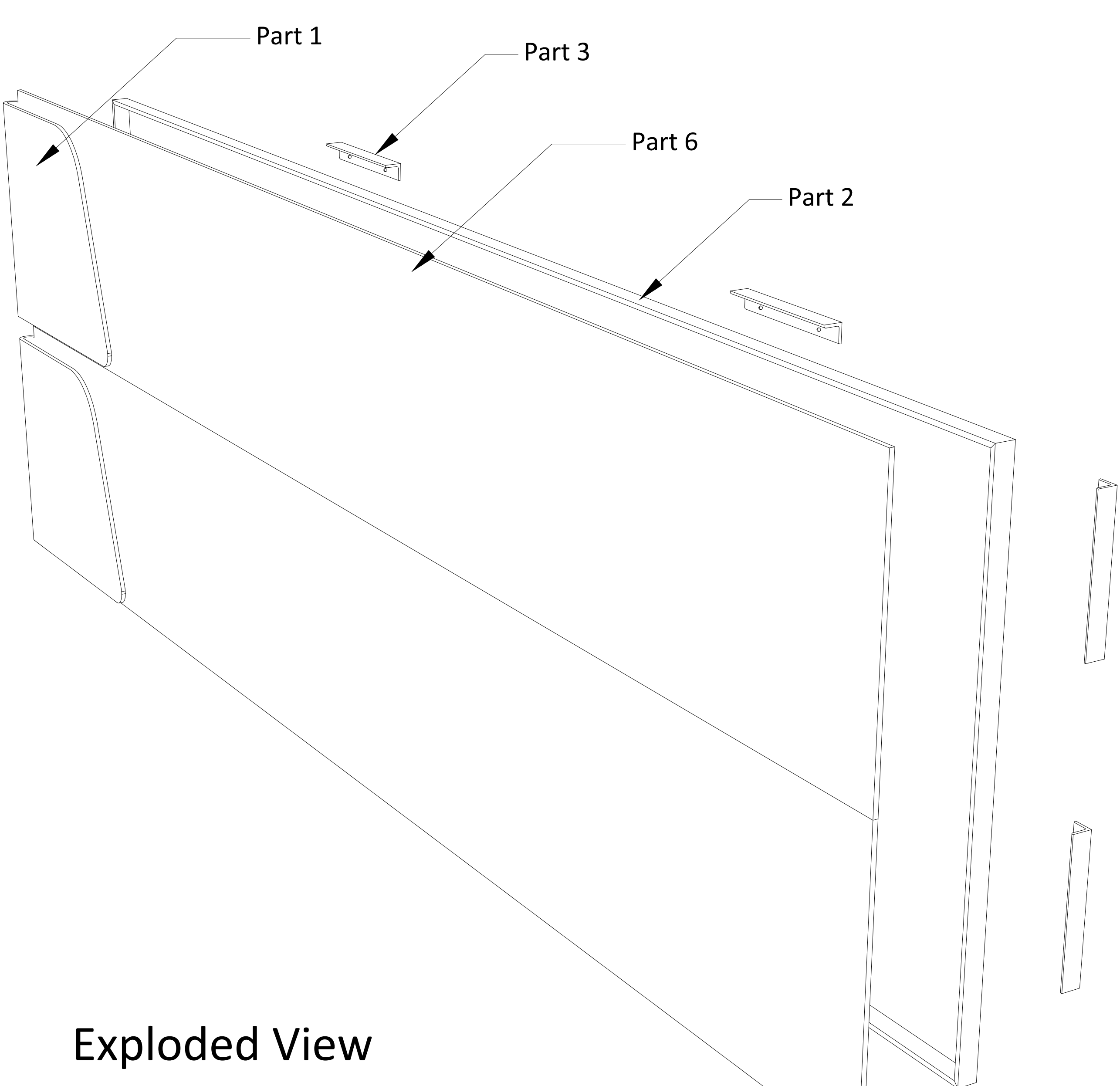
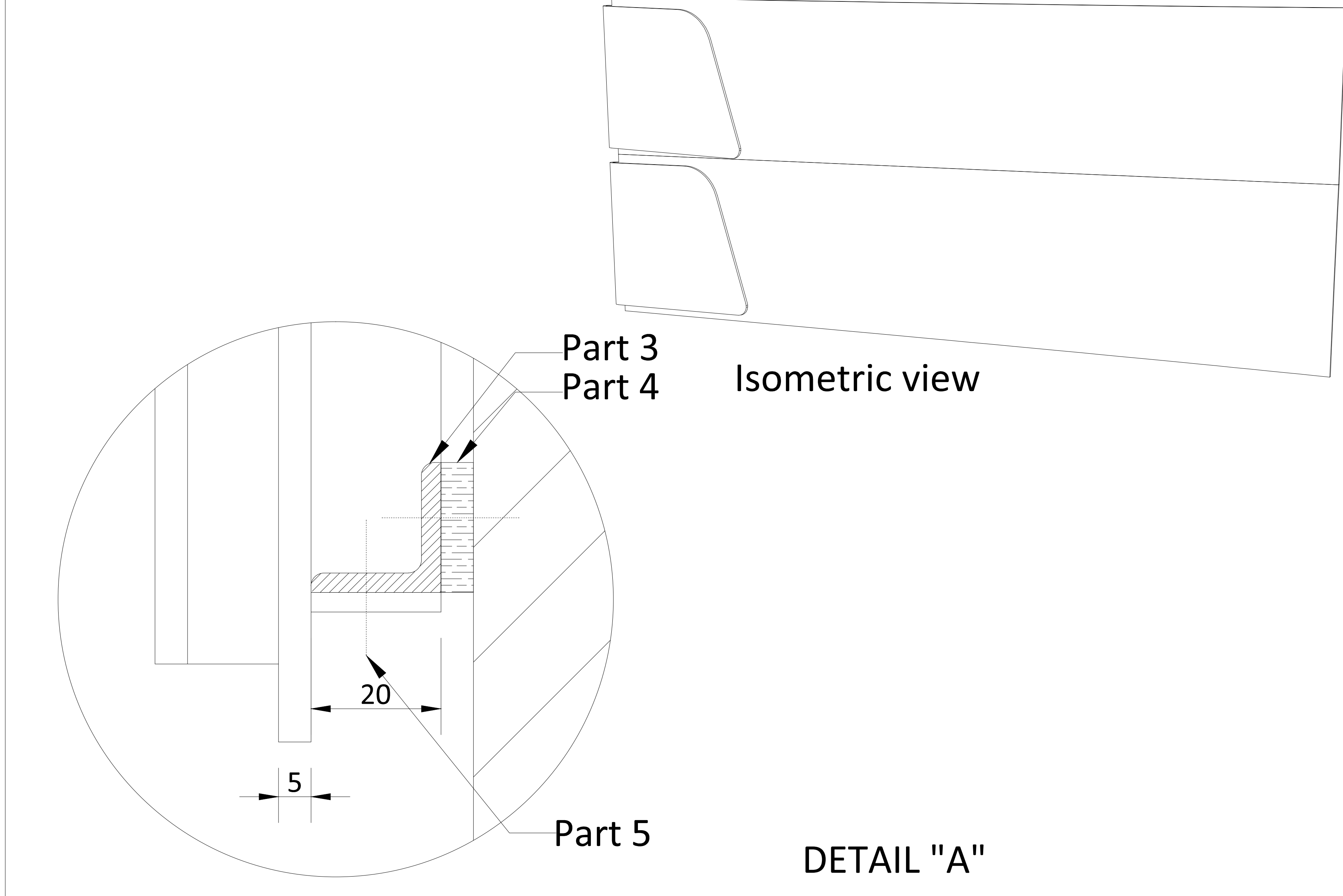
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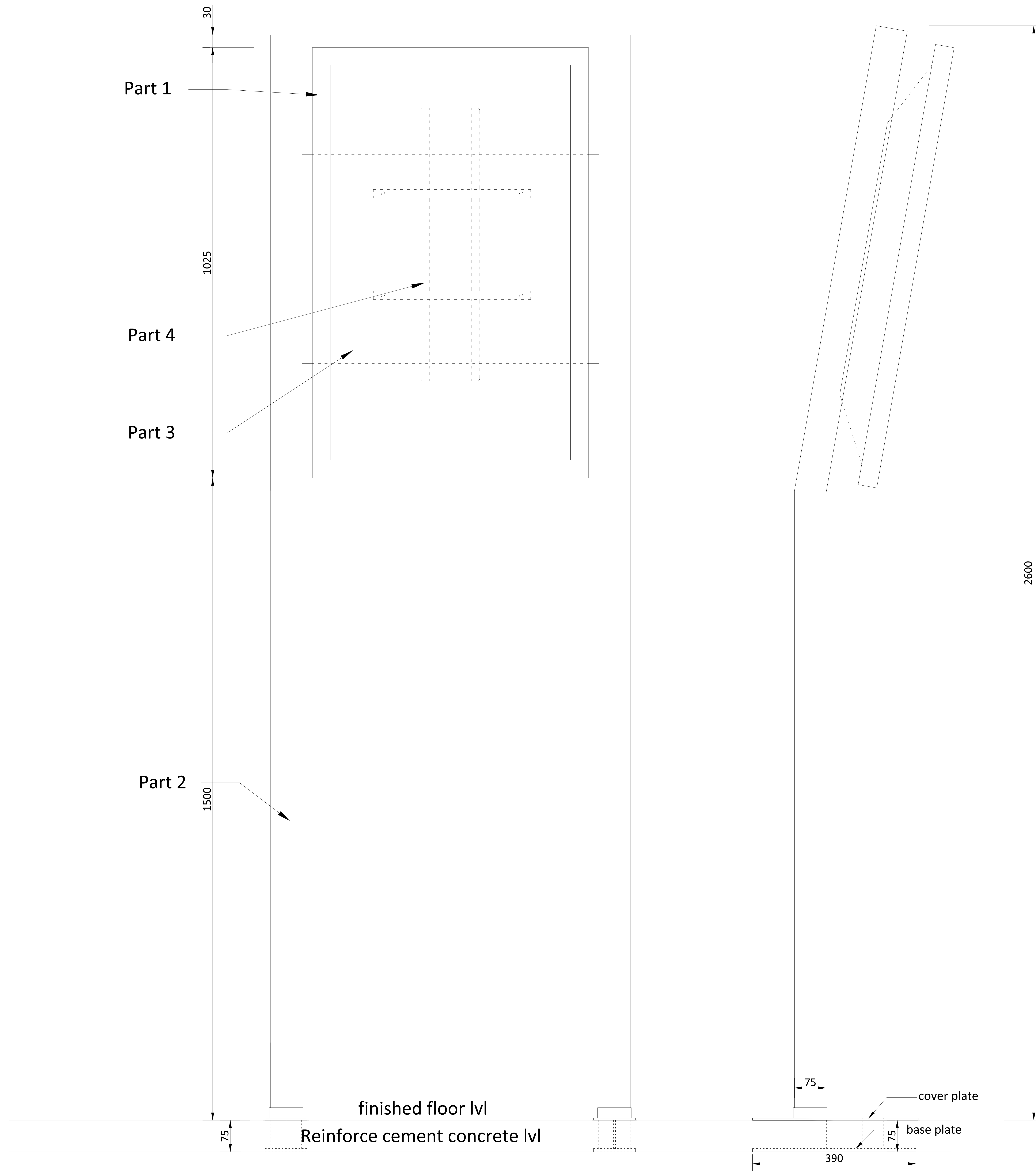
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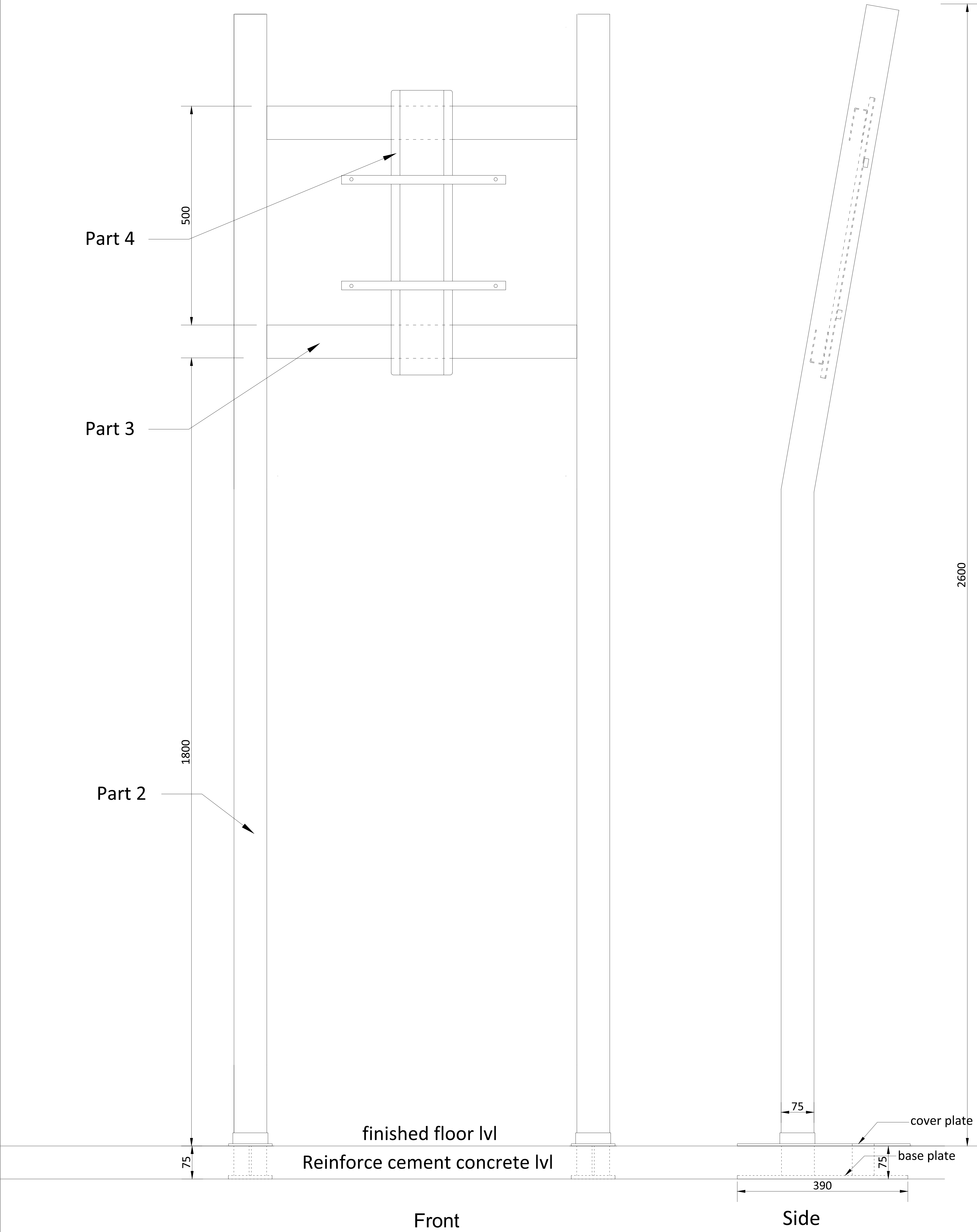
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| CE (D&C) | SCALE: STF | DRG.NO: TEK-M-T3M3-303.3P-01 |
| | DATE: 30.12.15 | DRAWN BY: Deepak |
| REV.NO. A | | CHECKED BY: PBS |

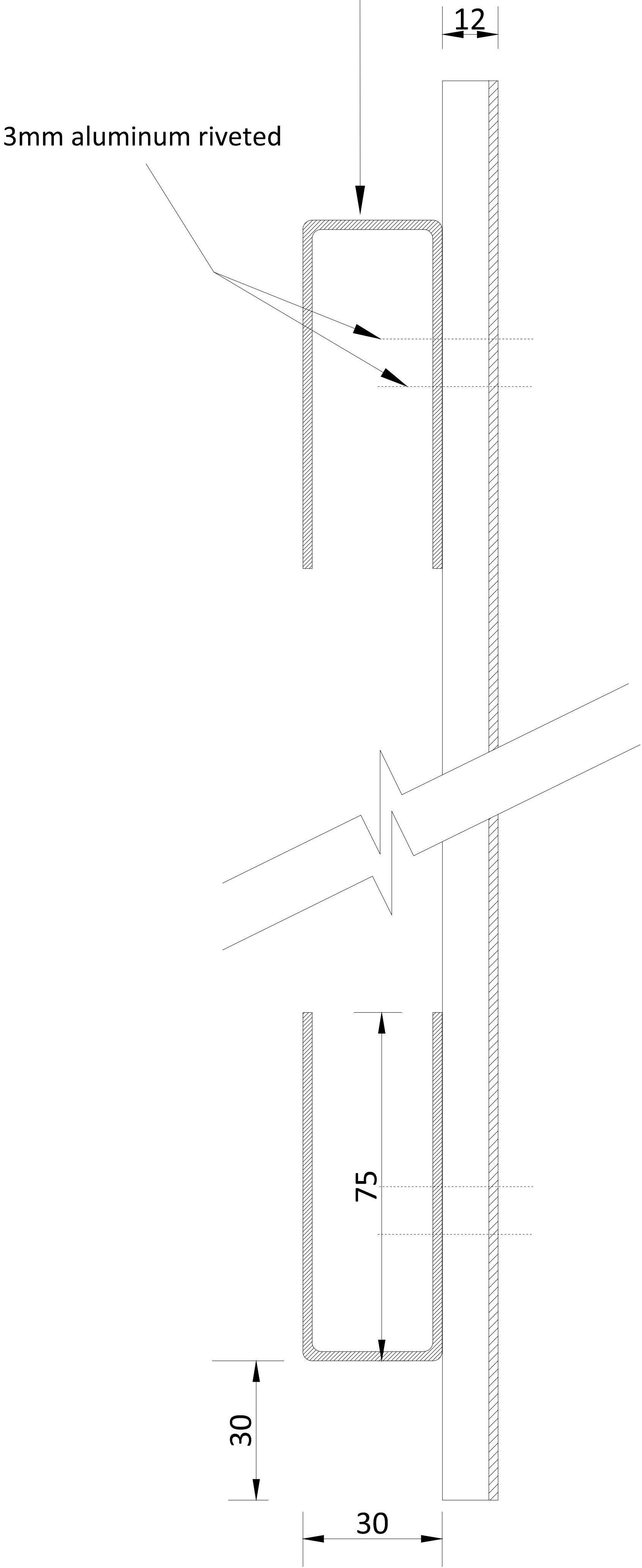
SIGNAGE&GRAPHICS







'U' section made out of 2mm thick CRCA sheet with the lip of 25mm as shown, powder coated to mach with color G1 after welding with the post done.



LCD Bracket Mounting

MATERIAL NOTES :

- Part 1:** 46 " LED Display
- Part 2:** post, 80 mm dia 5mm thick circular hollow section powder coated in RAL Classic 7016.
- Part 3:** Connecting frame, 1.6 CRCA MS sheet bend 'U' shape weld join to post. powder coated in RAL Classic 7016
- Part 4:** LCD Mounting Bracket part of LED Display

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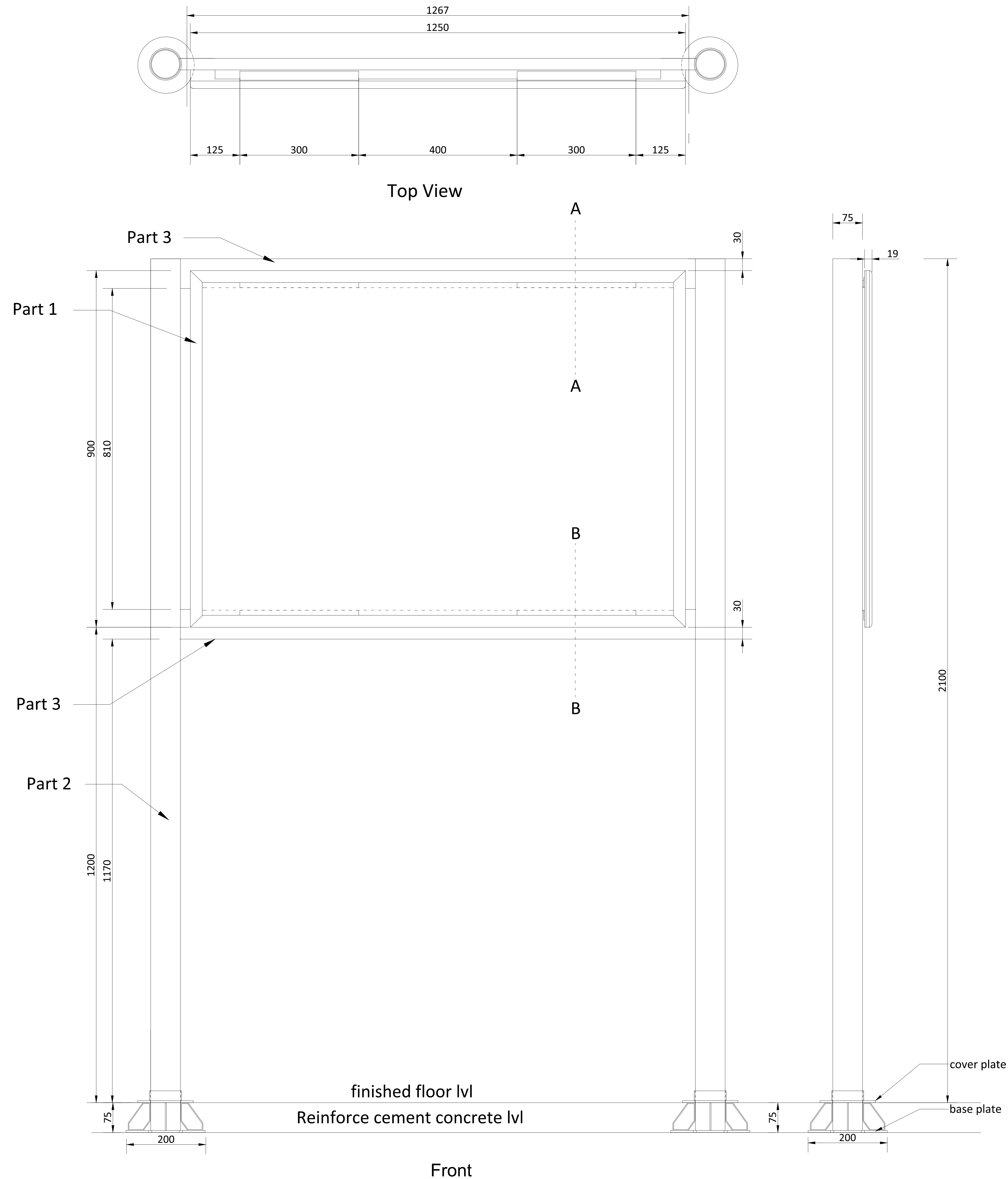
DRG.NO:
TEKM-T3M3-303.4P -2

DRAWN BY: Deepak

CHECKED BY: PBS



SIGNAGE&GRAPHICS



MATERIAL NOTES :

Part 1: Sign panel, 2mm thick power coated aluminum sheet color RAL classic 7016 vinyl pasted on 2mm thick sunboard sandwiched with 4mm polycarbonate hold into 30x20mm snap frame aluminum extrusion powder coated in RAL classic 7016.

Part 2: Post, 80 mm dia 5mm thick MS circular hollow section PU painted in RAL classic 7016.

Part 3: Connecting frame, 3mm thick aluminium sheet bend 'U' shape bolted to post. powder coated in RAL classic 7016.

GENERAL NOTES:


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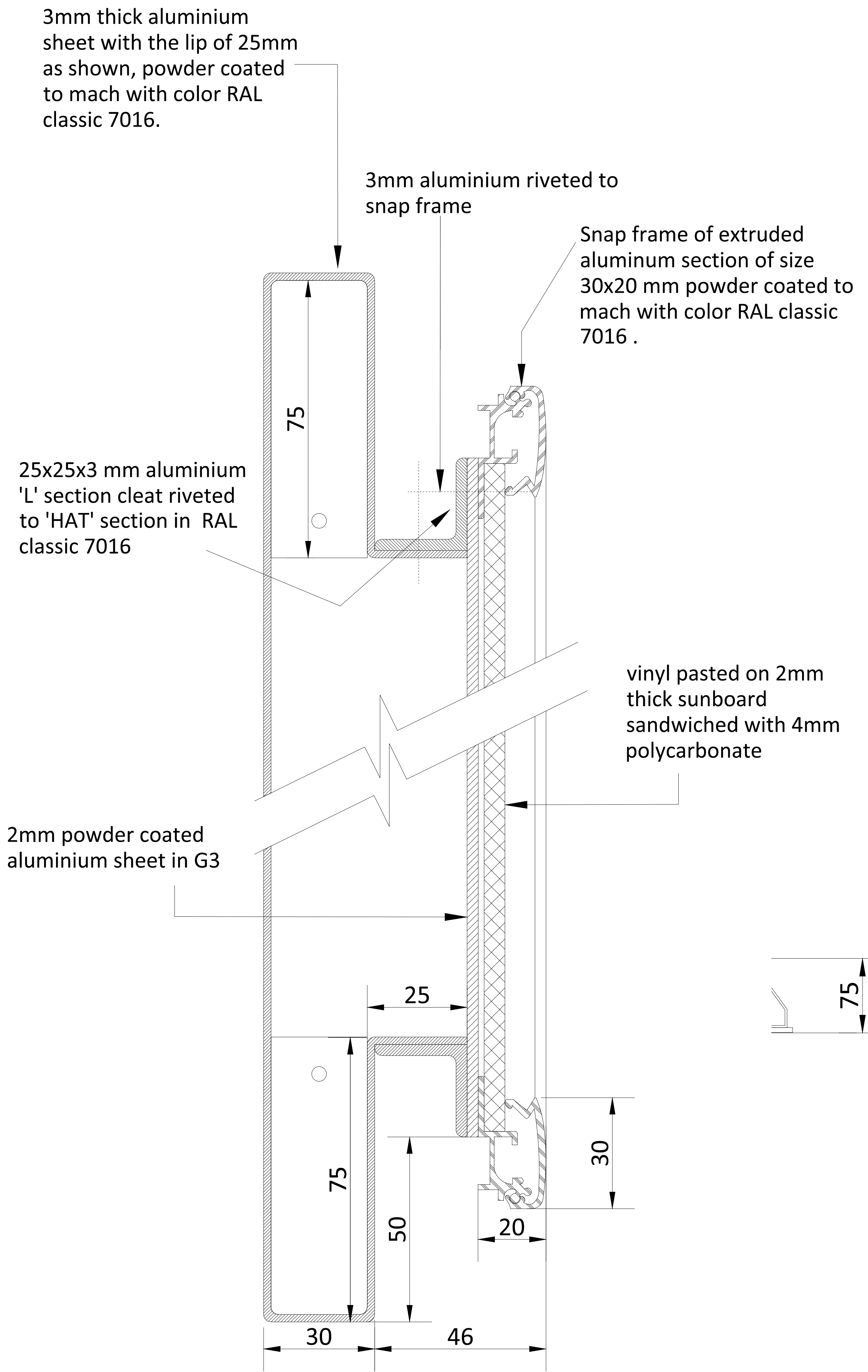
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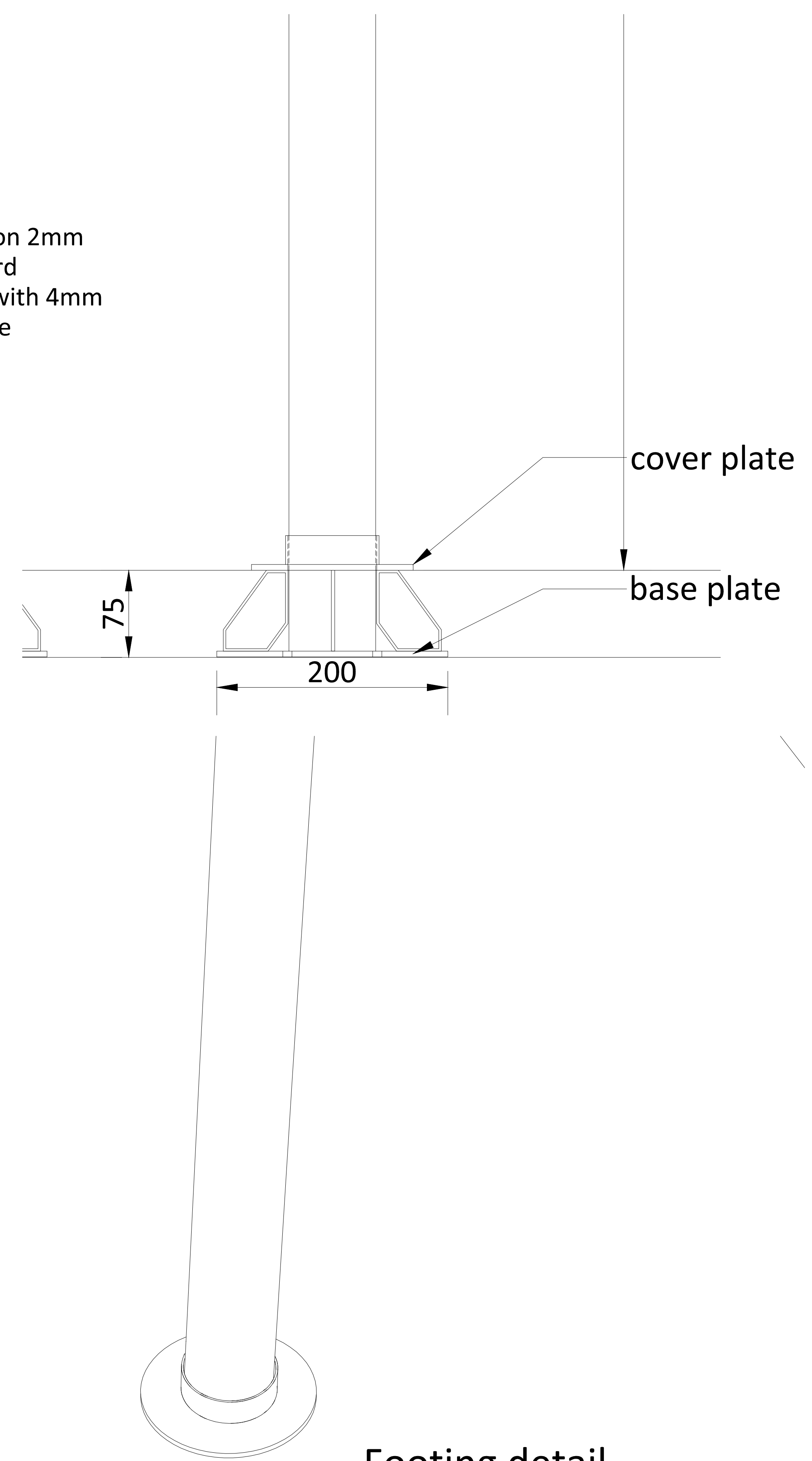
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| | DATE: 01.03.12 | DRAWN BY: Deepak | |
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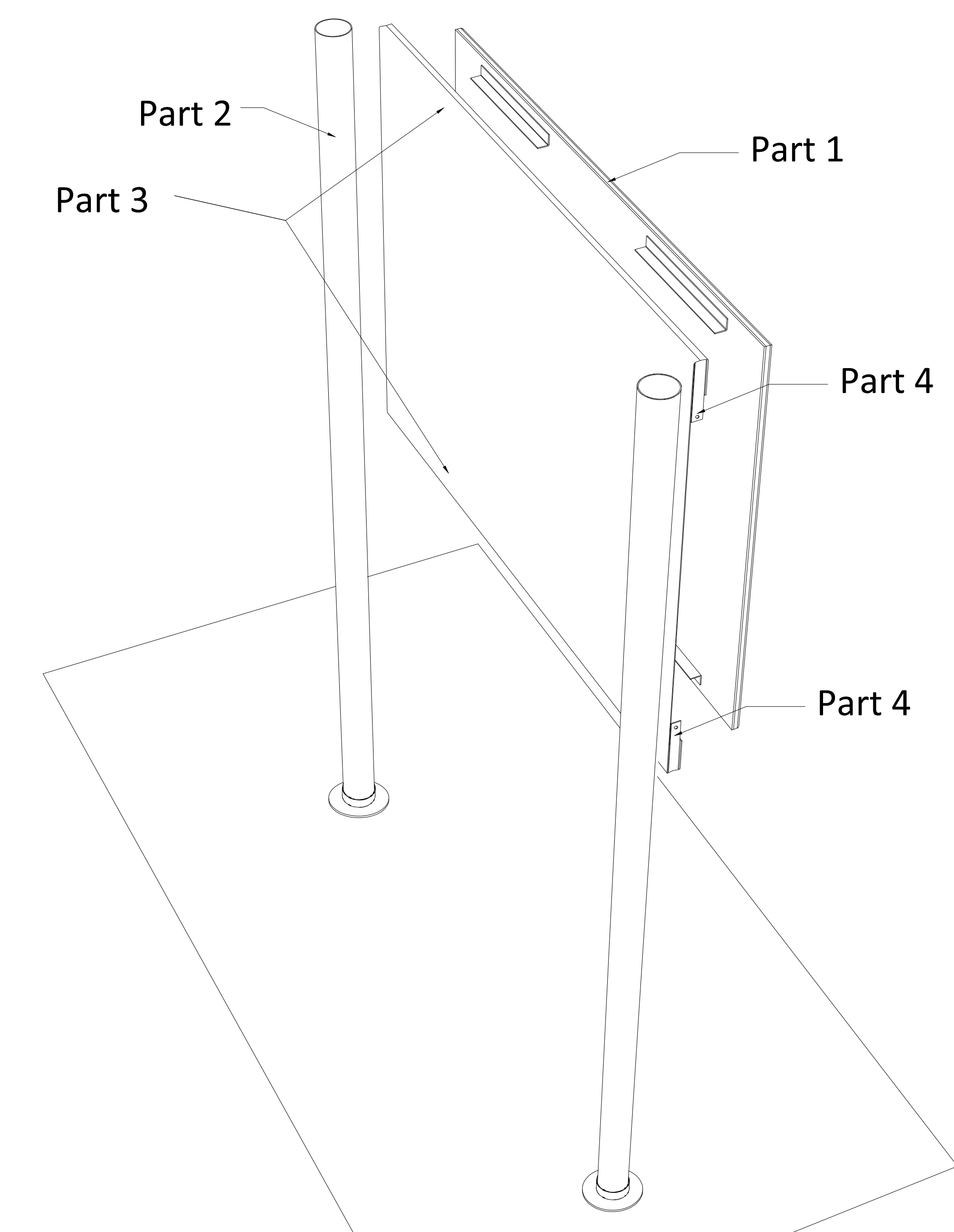
SIGNAGE&GRAPHICS



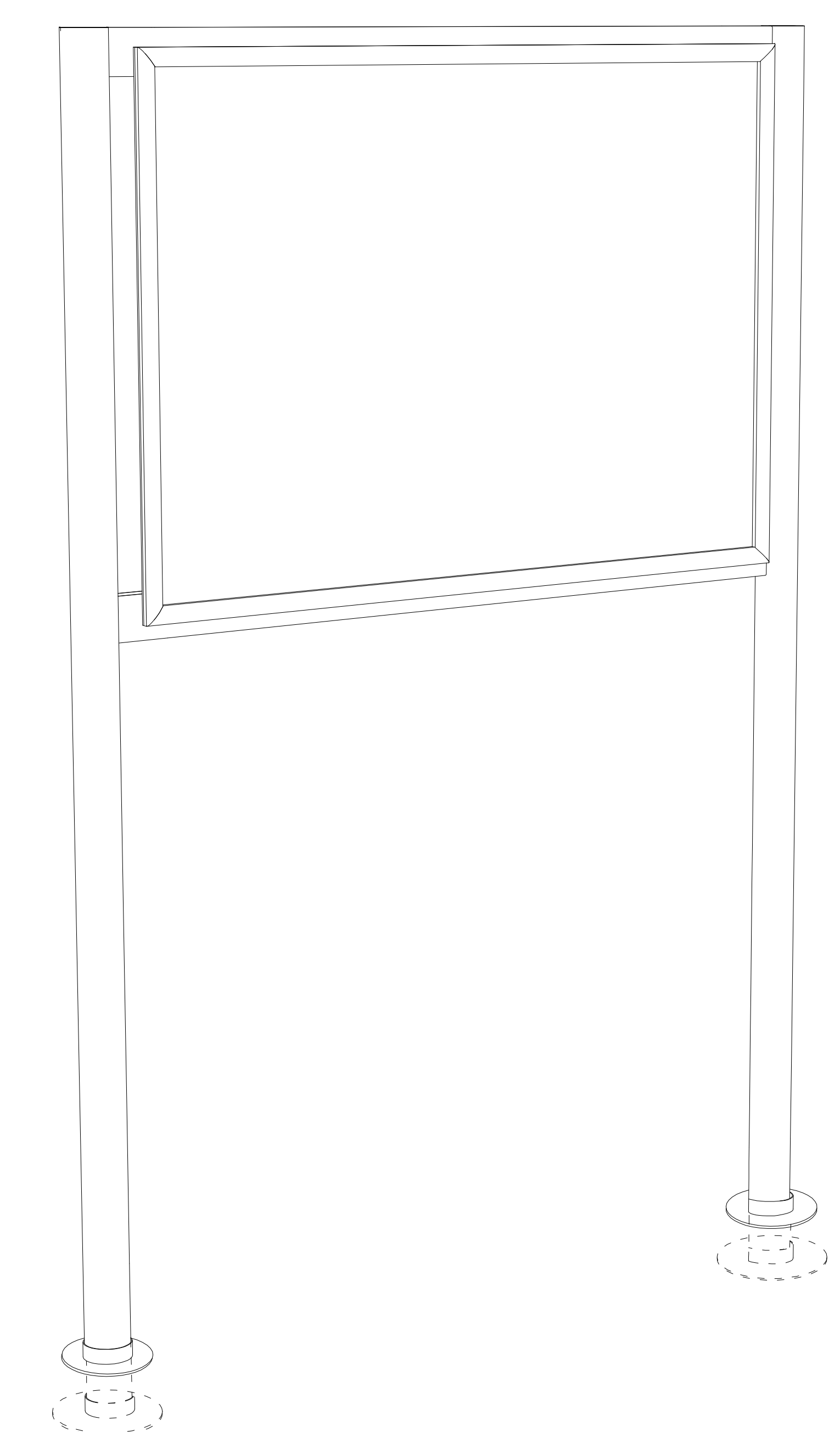
Section AA' and BB'



Footing detail



Exploded View showing single panel



Isometric view

MATERIAL NOTES :

Part 1: Sign panel, 2mm thick power coated aluminum sheet color RAL classic 7016 vinyl pasted on 2mm thick sunboard sandwiched with 4mm polycarbonate hold into 30x20mm snap frame aluminum extrusion powder coated in RAL classic 7016.

Part 2: Post, 80 mm dia 5mm thick MS circular hollow section PU painted in RAL classic 7016.

Part 3: Connecting frame, 3mm thick aluminium sheet bend 'U' shape bolted to post. powder coated in RAL classic 7016.

Part 4: Chrome bolt , Bolted to MS pipe 80mm using silicone washer either side

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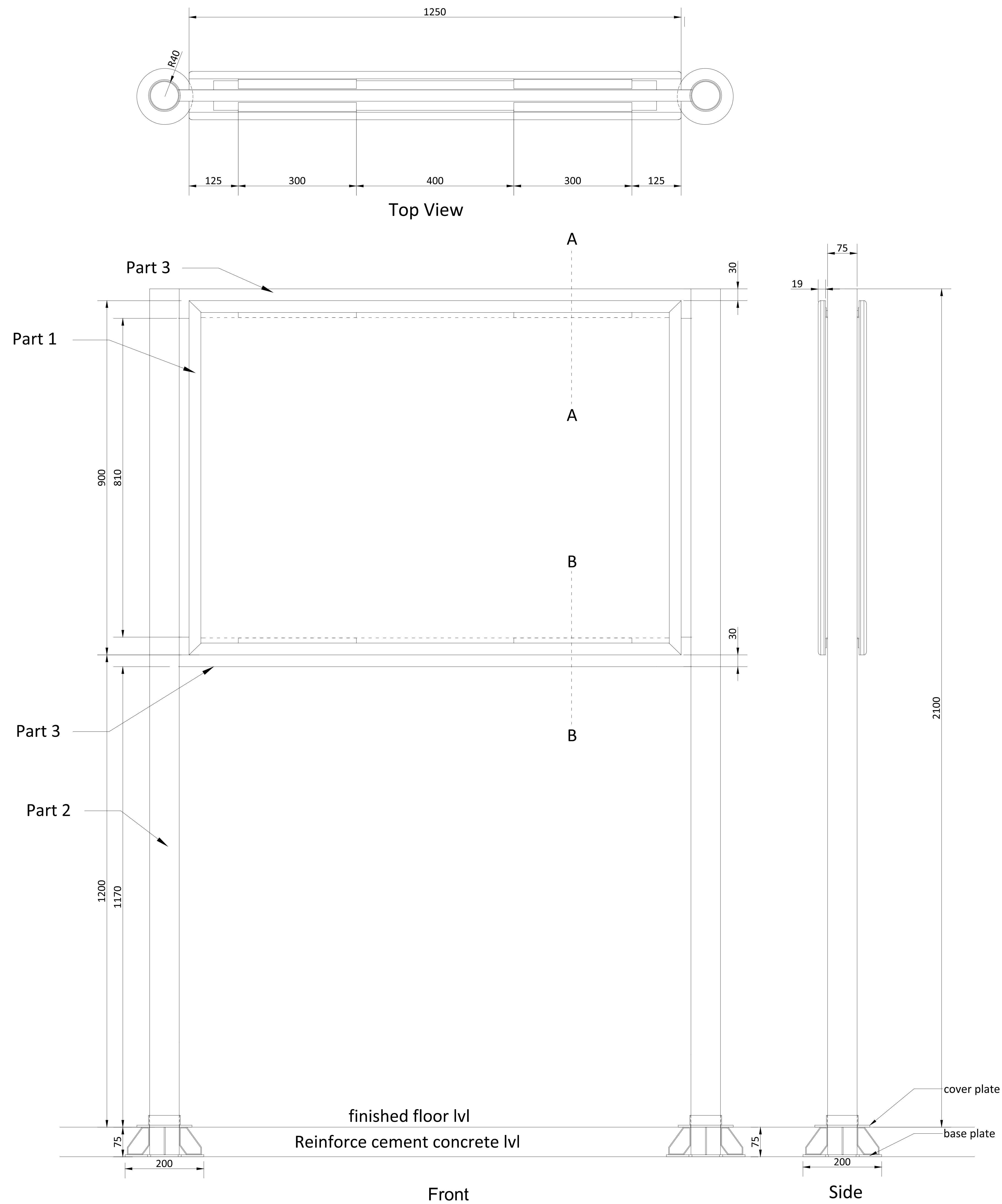
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| DATE: 01.03.12 | DRAWN BY: Deepak | |
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SIGNAGE&GRAPHICS



MATERIAL NOTES :

Part 1: Sign panel, 2mm thick power coated aluminum sheet color RAL classic 7016 vinyl pasted on 2mm thick sunboard sandwiched with 4mm polycarbonate hold into 30x20mm snap frame aluminum extrusion powder coated in RAL classic 7016.

Part 2: Post, 80 mm dia 5mm thick MS circular hollow section PU painted in RAL classic 7016.

Part 3: Connecting frame, 3mm thick aluminium sheet bend 'U' shape bolted to post. powder coated in RAL classic 7016.

GENERAL NOTES:

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| | STATUS: TENDER (TEKM /TENDER | | |
| | SCALE: STF | DRG.NO: TEKM-T3M3-303.1.4P-01 | |
| DATE: 30.12.15 | DRAWN BY: Deepak | | |
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SIGNAGE & GRAPHICS

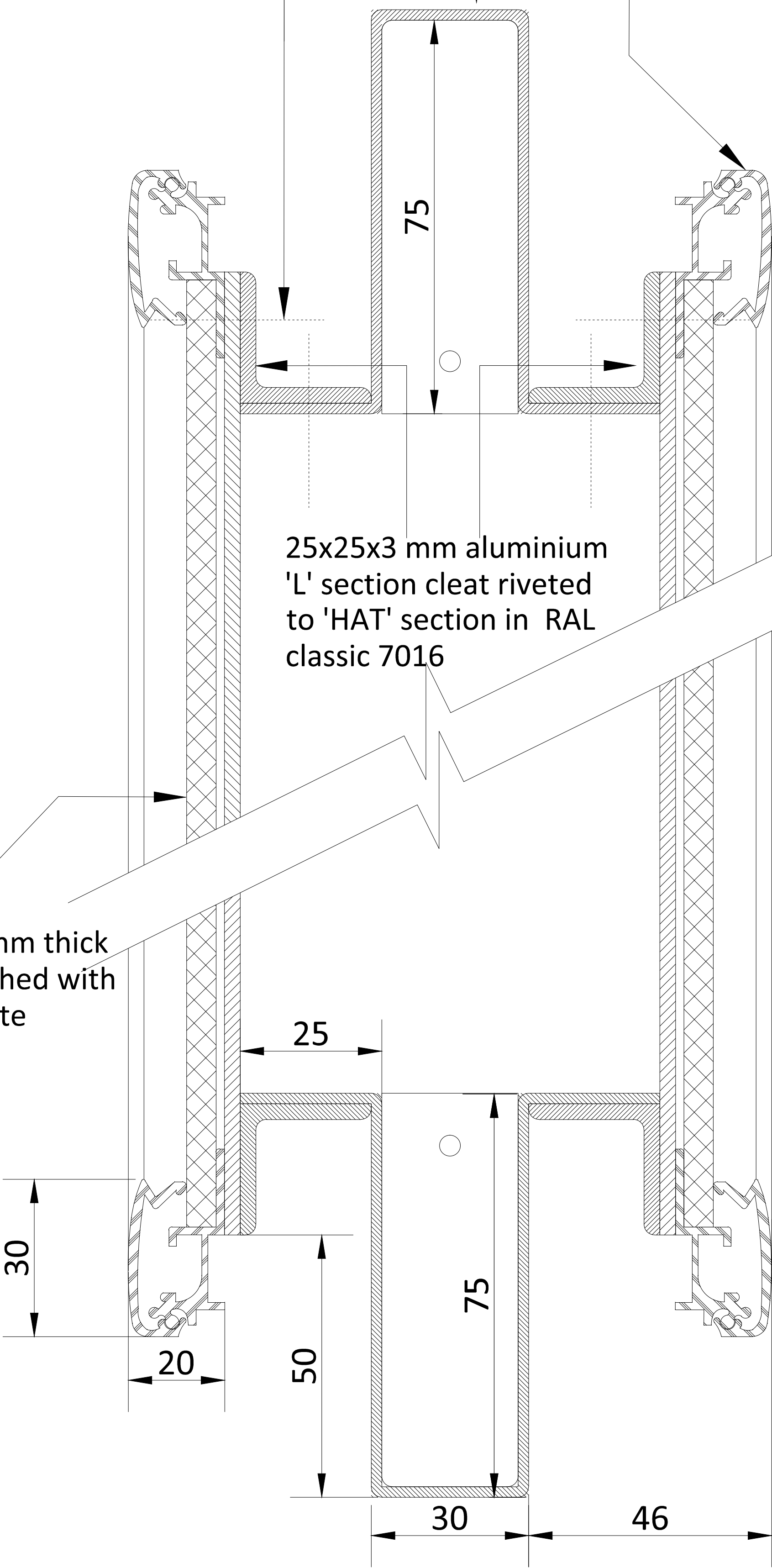
'U' section made out of 3mm thick aluminium sheet with the lip of 25mm as shown, powder coated to mach with color RAL classic 7016.

3mm aluminium riveted to snap frame

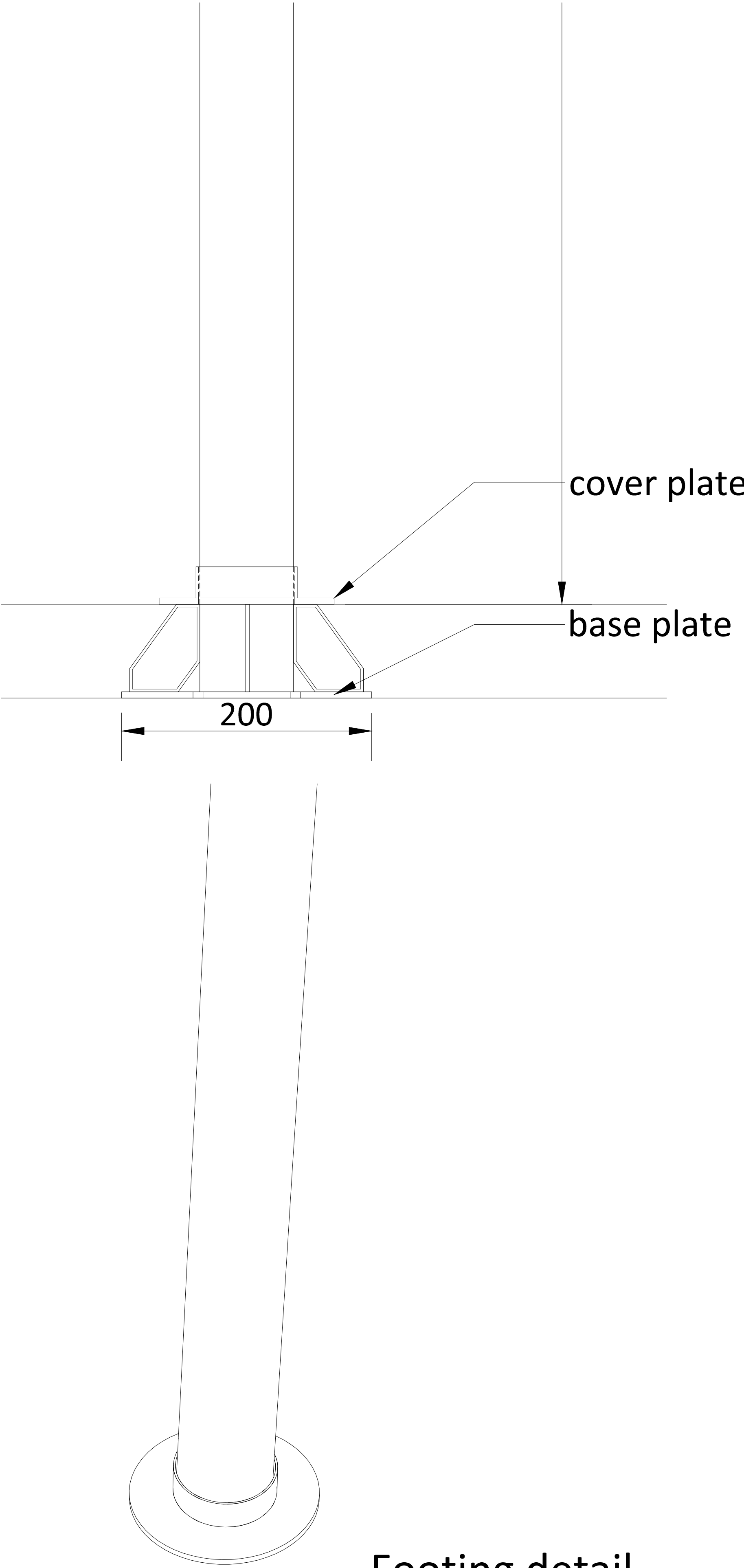
Snap frame of extruded aluminum section of size 30x20 mm powder coated to mach with color RAL classic 7016 .

25x25x3 mm aluminium 'L' section cleat riveted to 'HAT' section in RAL classic 7016

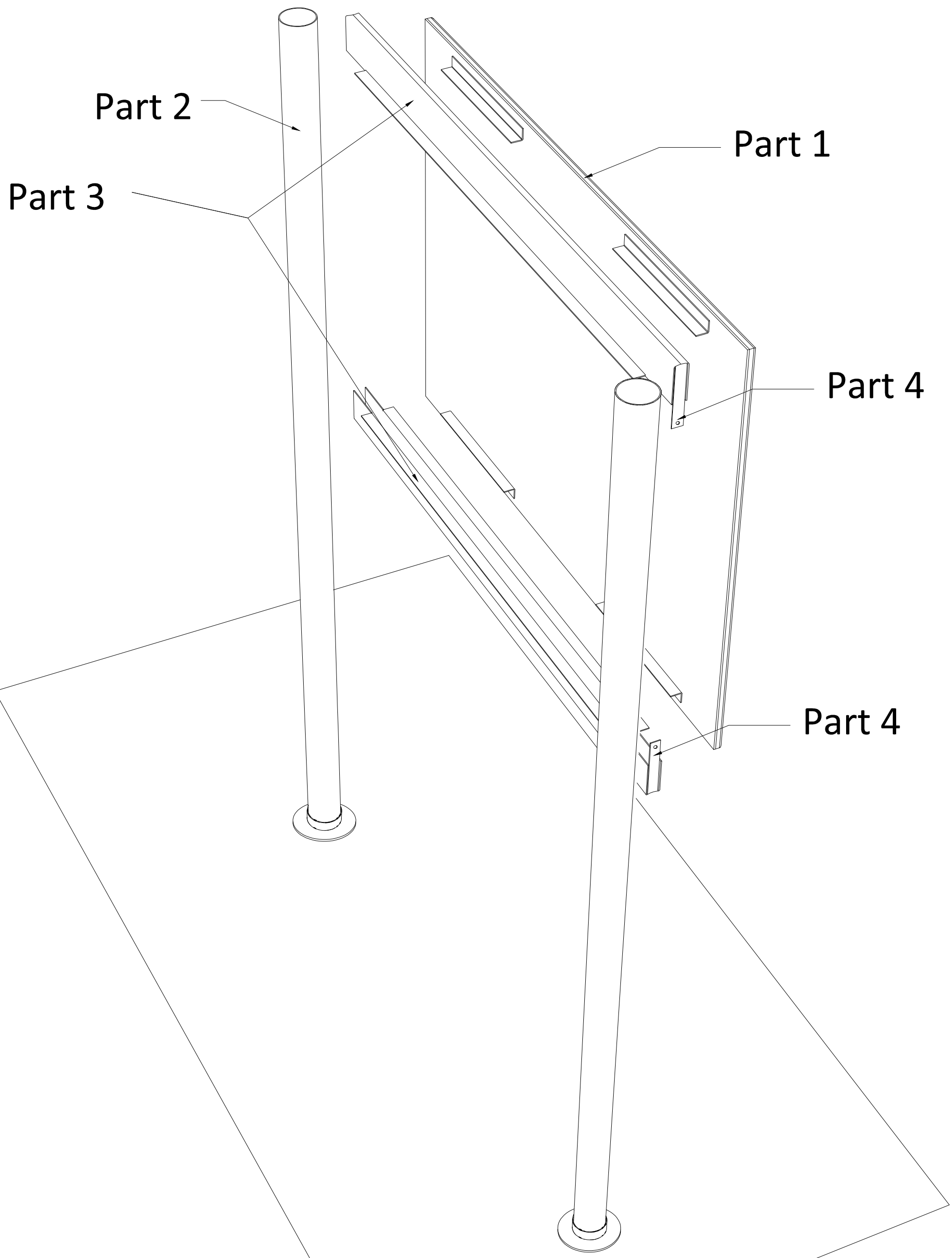
vinyl pasted on 2mm thick sunboard sandwiched with 4mm polycarbonate



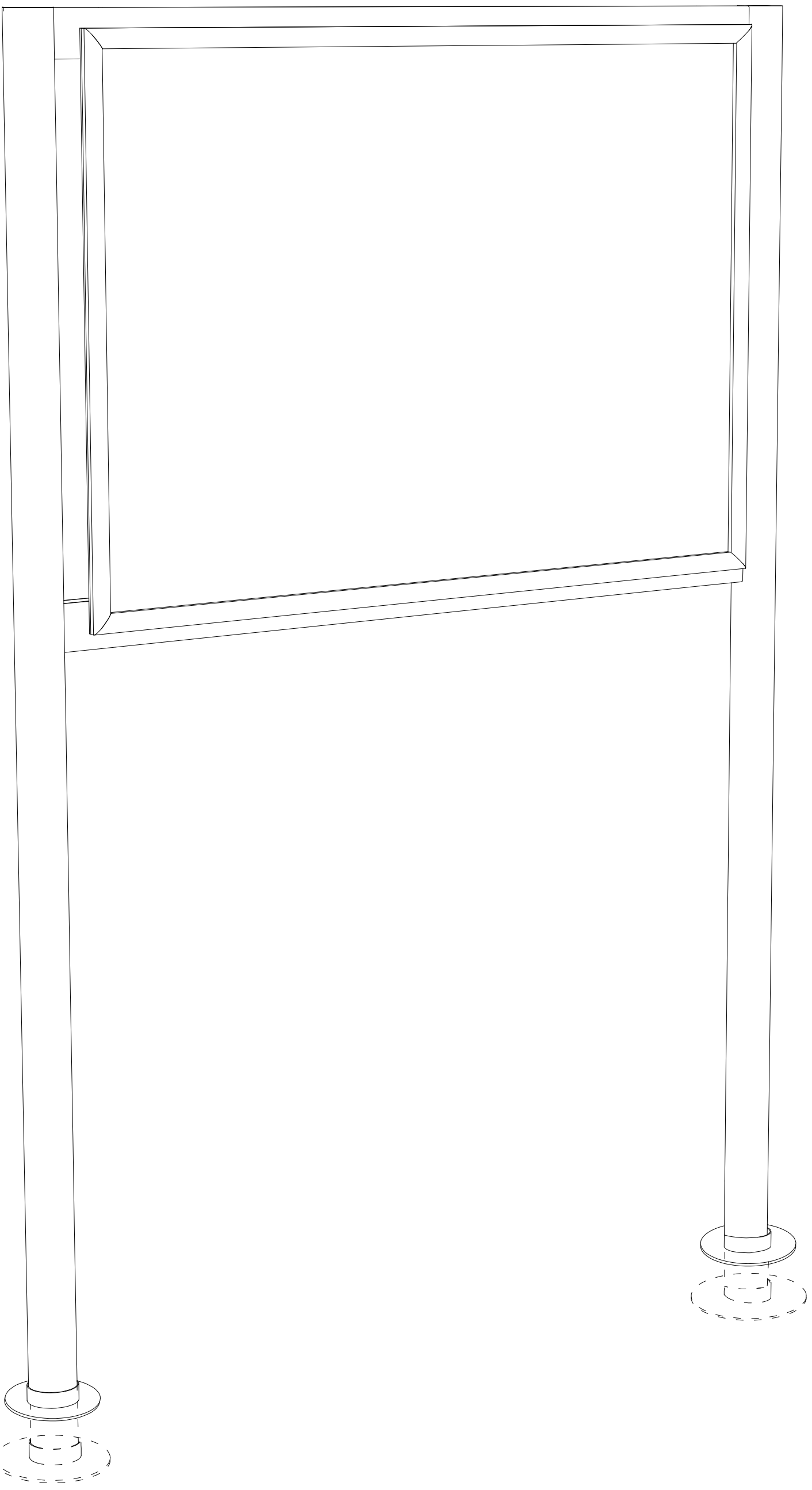
Section AA' and BB'



Footing detail



Exploded View showing single panel



Isometric view

- MATERIAL NOTES :
- Part 1:** Sign panel, 2mm thick power coated aluminum sheet color RAL classic 7016 vinyl pasted on 2mm thick sunboard sandwiched with 4mm polycarbonate hold into 30x20mm snap frame aluminum extrusion powder coated in RAL classic 7016.
- Part 2:** Post, 80 mm dia 5mm thick MS circular hollow section PU painted in RAL classic 7016.
- Part 3:** Connecting frame, 3mm thick aluminium sheet bend 'U' shape bolted to post. powder coated in RAL classic 7016.
- Part 4:** Chrome bolt , Bolted to MS pipe 80mm using silicone washer either side


- GENERAL NOTES:
- ALL DIMENSIONS ARE IN MM.
 - ALL DIMENSIONS ARE TO BE READ AND NOT MEASURED.
 - ANY DISCREPANCIES MUST BE BROUGHT TO THE NOTICE OF THE CONSULTANT BEFORE EXECUTION OF WORK-AT SITE.
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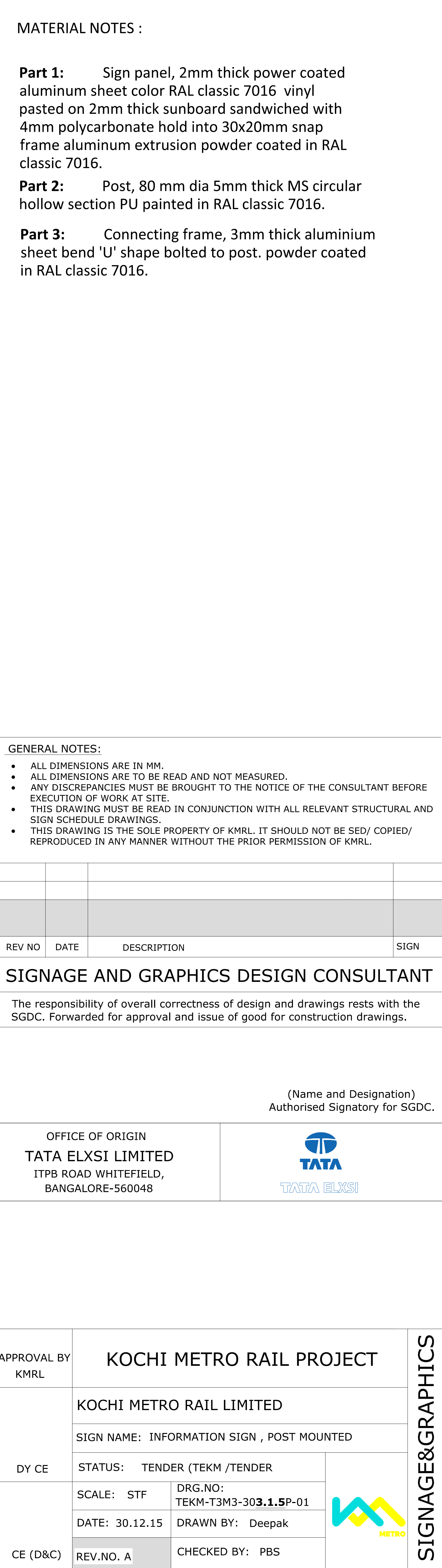
SIGNAGE AND GRAPHICS DESIGN CONSULTANT

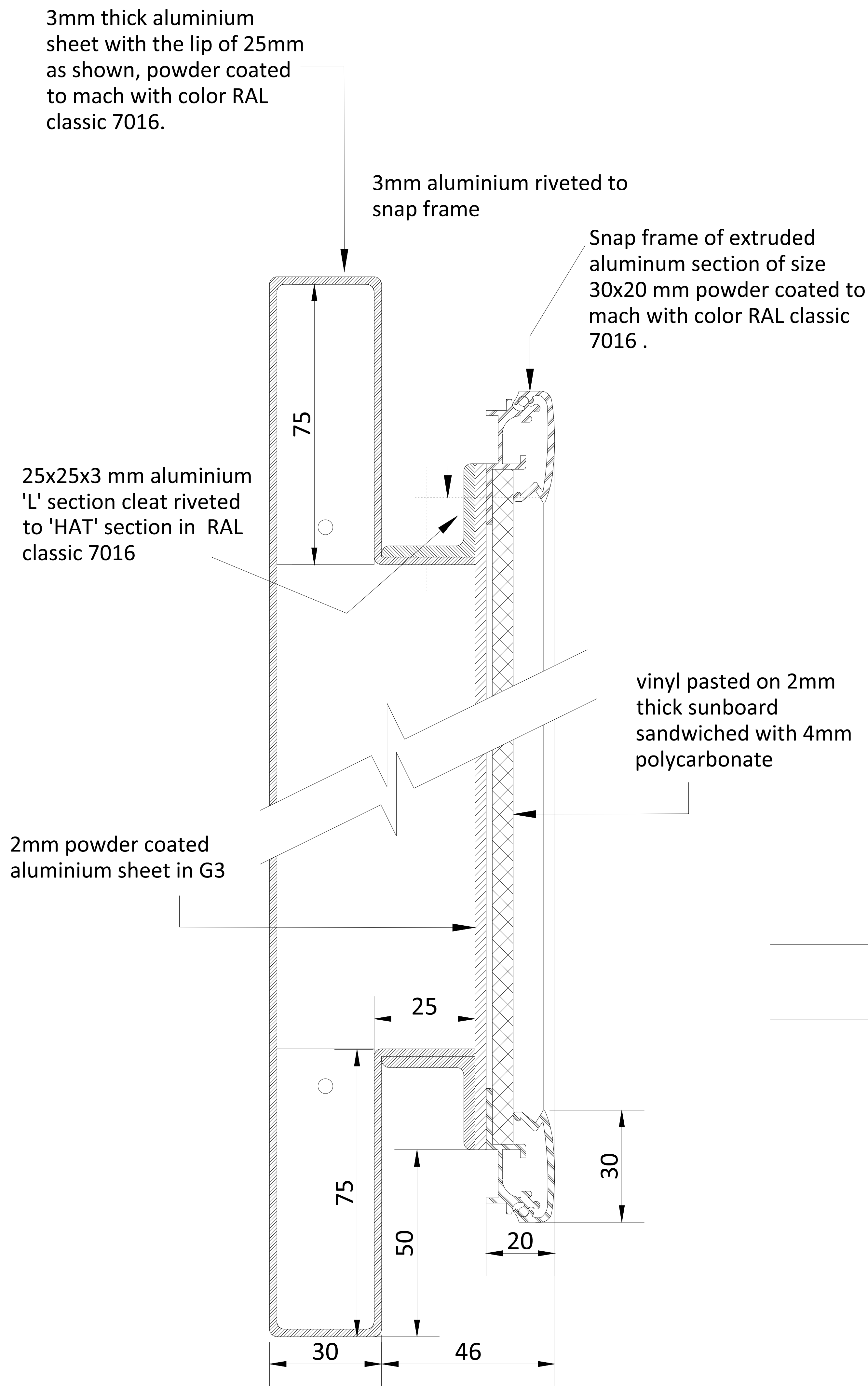
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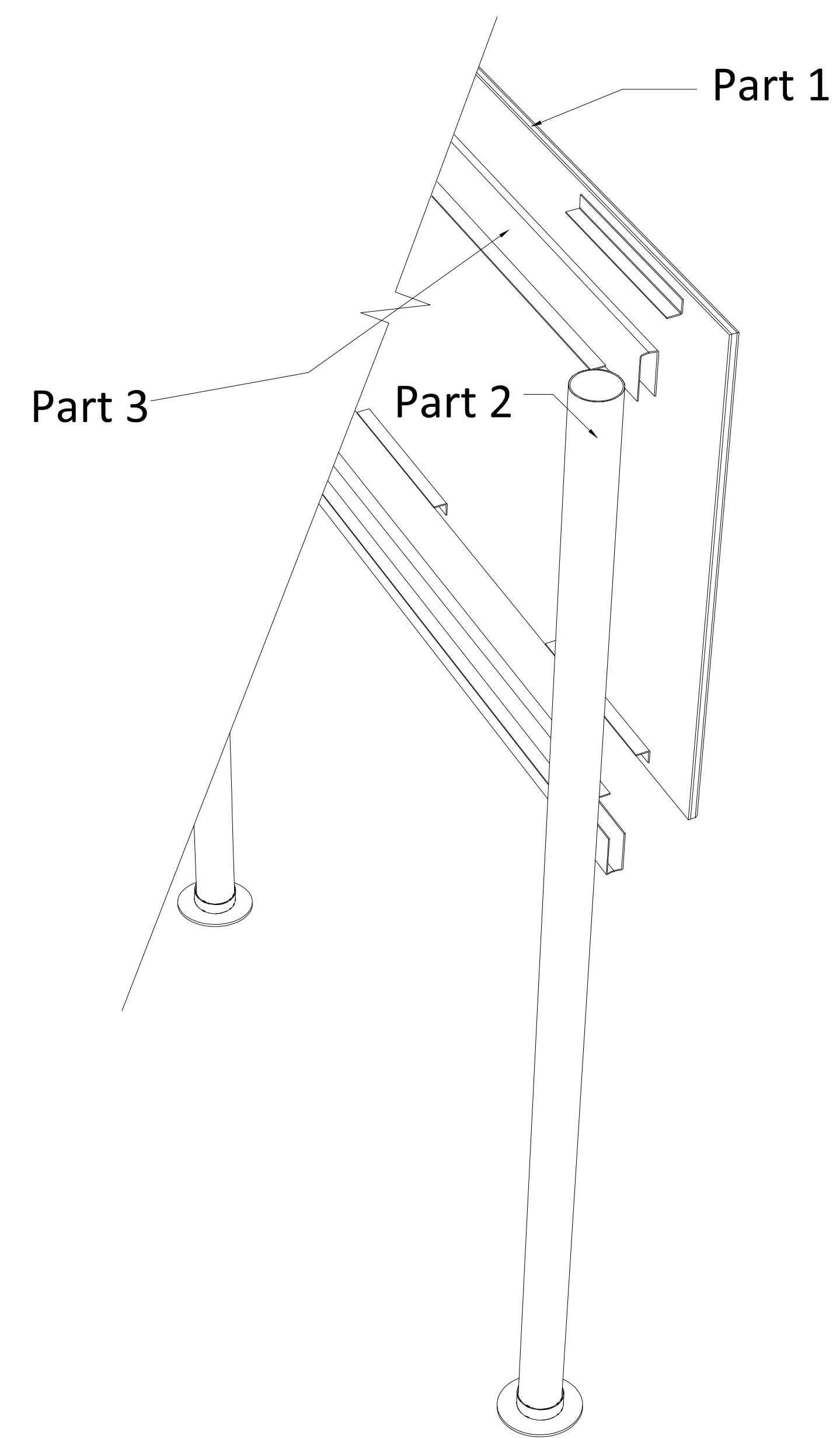
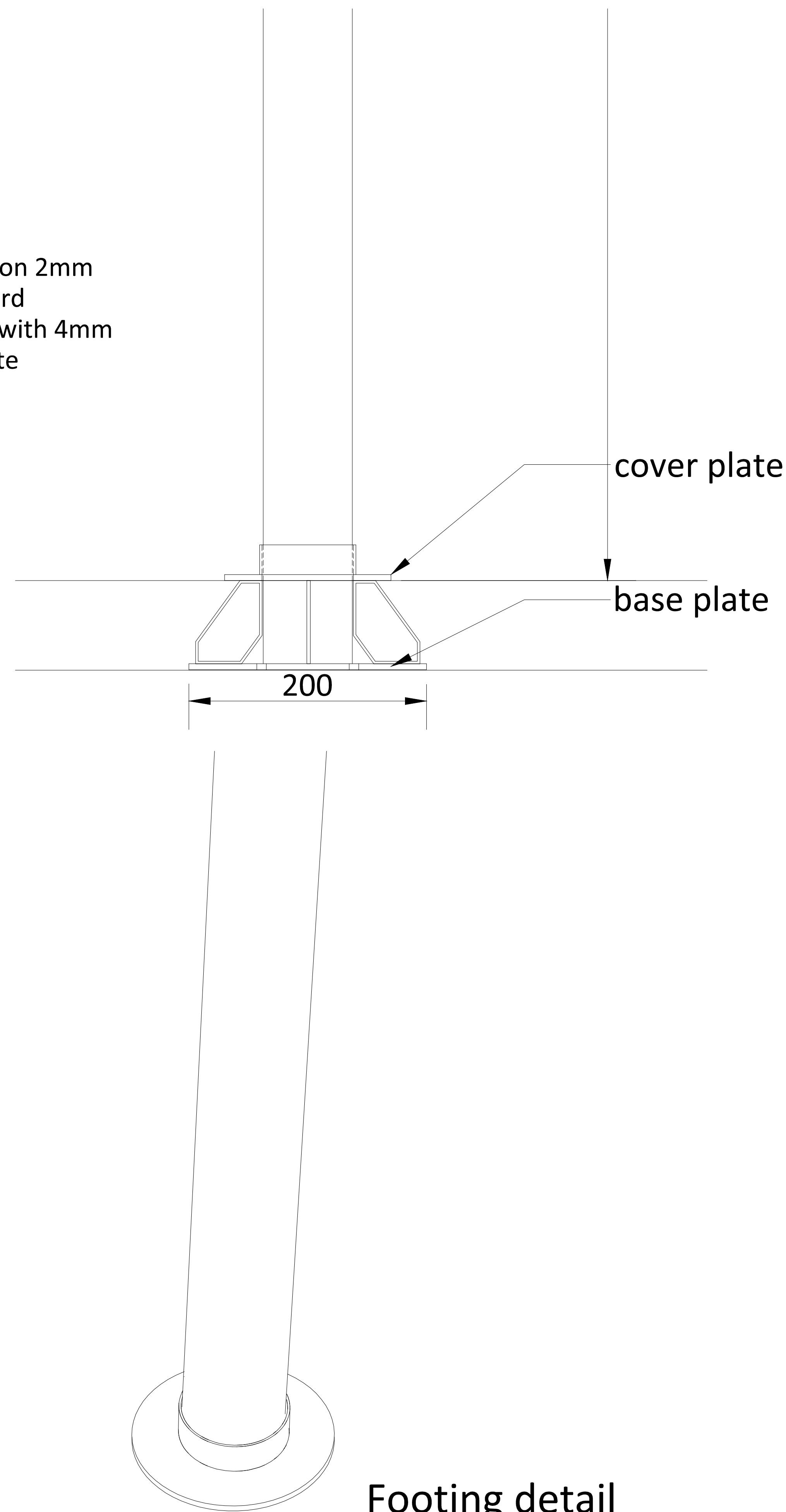
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| | DATE: 30.12.15 | DRAWN BY: Deepak | |
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SIGNAGE&GRAPHICS

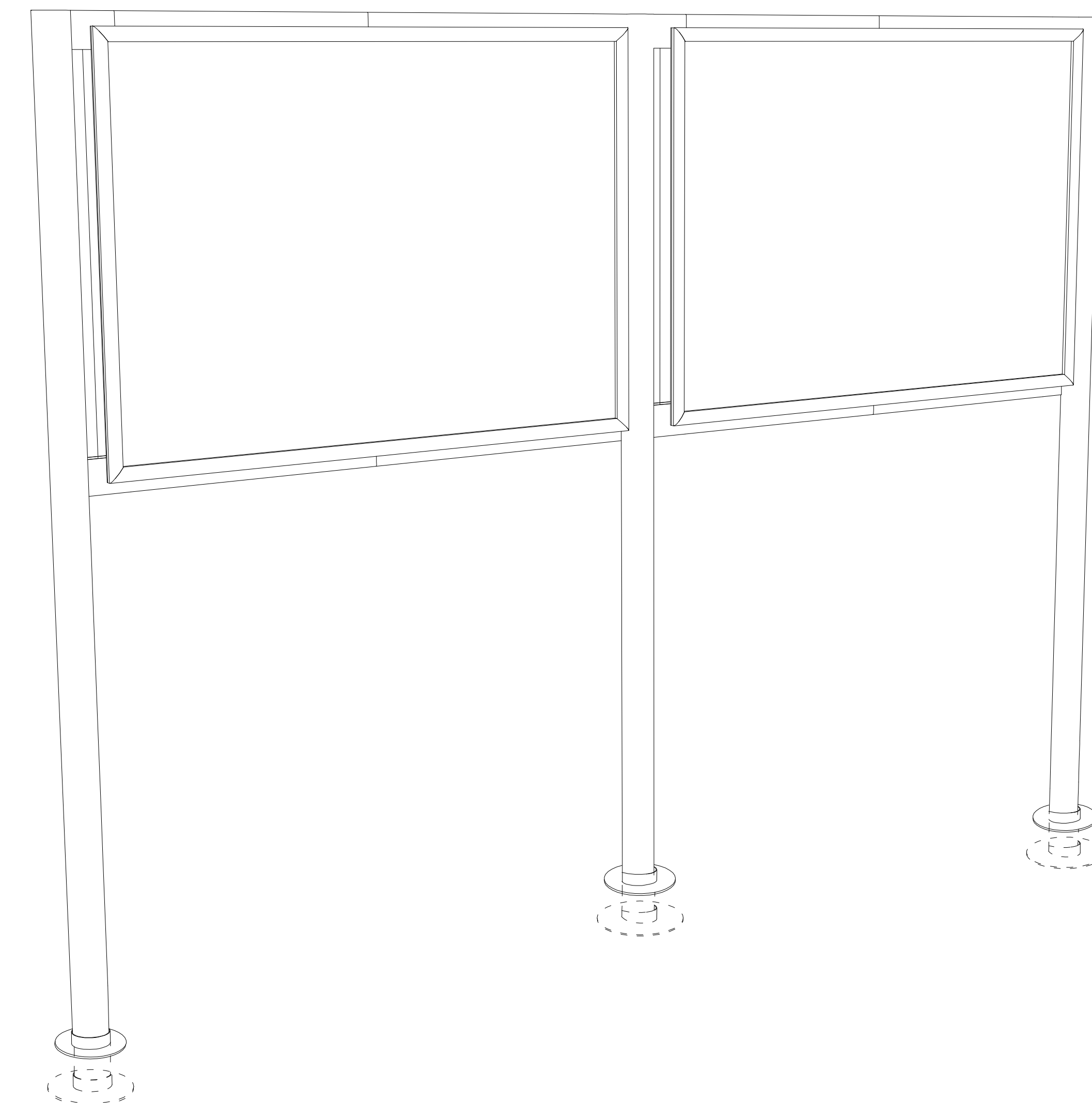




Section AA' and BB'



Exploded View showing single panel



MATERIAL NOTES :

Part 1: Sign panel, 2mm thick power coated aluminum sheet color RAL classic 7016 vinyl pasted on 2mm thick sunboard sandwiched with 4mm polycarbonate hold into 30x20mm snap frame aluminum extrusion powder coated in RAL classic 7016.

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| CE (D&C) | SCALE: STF | DRG.NO: TEK-M-T3M3-303.1.5P-02 |
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