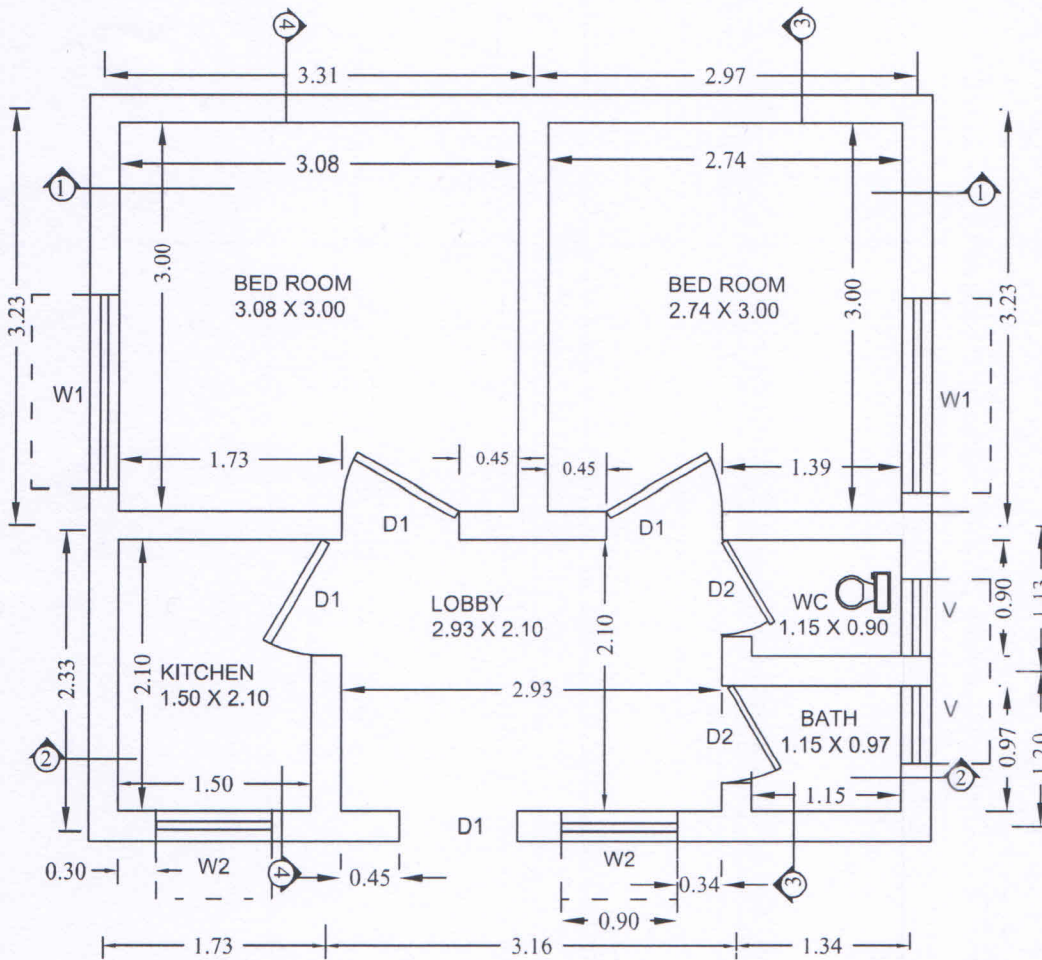


NOTES:-

- All dimensions are in m, unless wherever specified diameter of the bars shown in mm
- Dimensions are not to be scaled out, only written dimensions may be taken as correct.
- Nominal mix concrete 1:1.5:3 according IS 456 Clause 9.3
- The reinforcement shall be of high strength deformed steel bars conforming to IS:1786-2008
- Lap length and development length (L_d) for 8 mm Φ is 400 mm
- Second class brick must be used
- Mortar 1:5 as per Table 3 IS 4326-2013
- All walls are one Brick Thick Masonry walls or Autoclaved Aerated Block of Class 7.5
- Any discrepancy in the structural drawings should be correlated with architectural drawing.
- Refer DWG-2 to DWG-5 for earthquake resistance and structural detail.



FLOOR PLAN DETAIL

Schedule of Door & Windows

Name	Lintel	Width	Sill lvl	Description
D1	2.10	0.90	--	PVC DOOR
D2	2.10	0.75	--	
W1	2.10	1.50	0.90	
W2	2.10	0.90	0.90	
V	2.10	0.60	1.65	

NOTES:-

- Clear height of DU = 2.85 m
- Chajja projection over windows is 450 mm .
- * All the Dimensions in m

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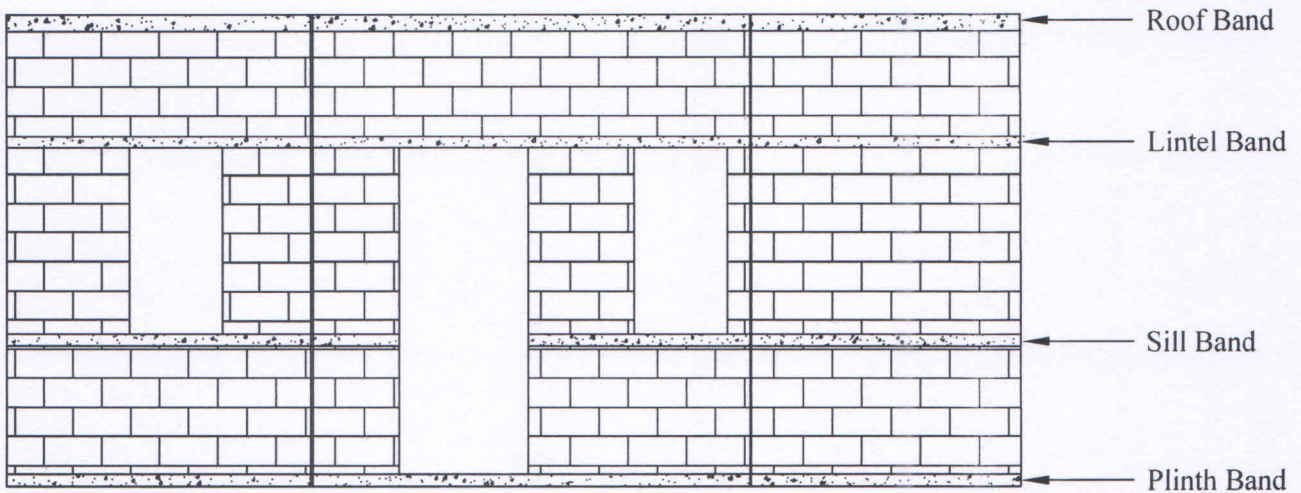
**BUILDING NAME:
PMAY HFA
OPTION 1
MASONRY BUILDING
SLOPING ROOF
ZONE IV**

**DRAWING TITLE:
FLOOR PLAN**

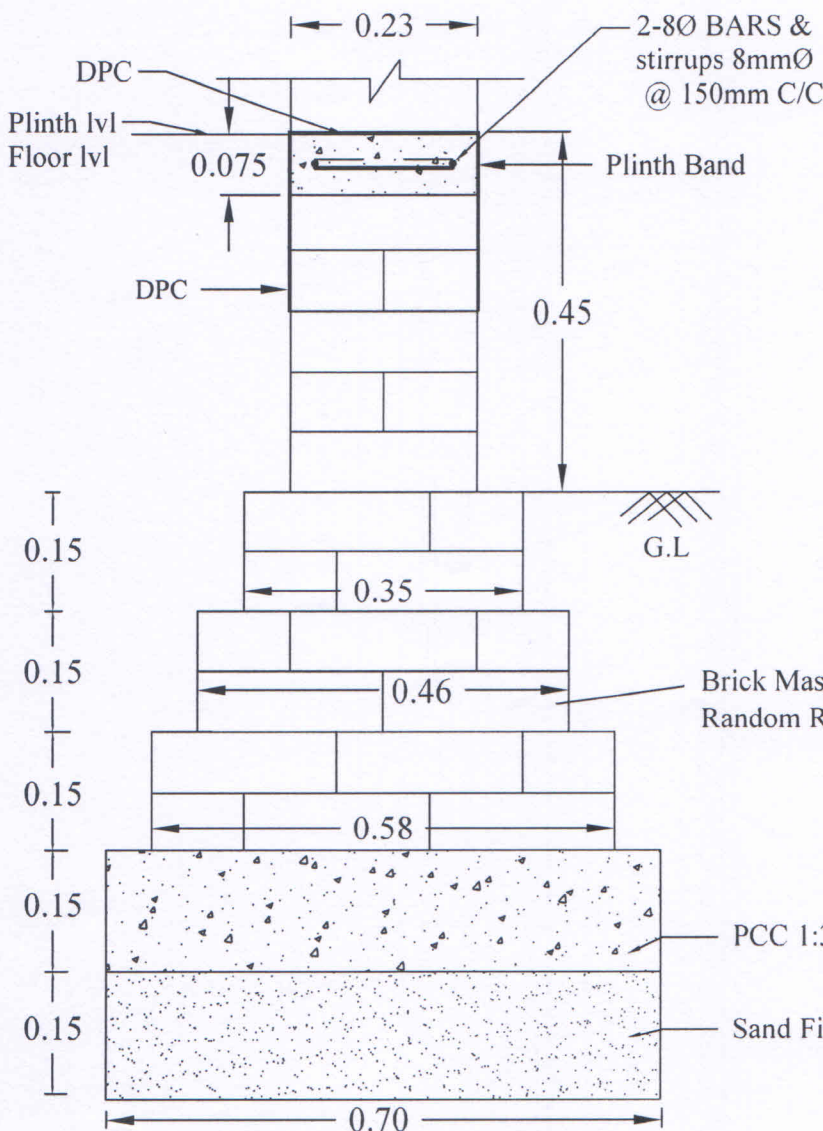
**DESIGNED BY:
Dr. Pardeep Kumar
Dr. Hemant Kumar Vinayak**

Dr. Hemant Kumar Vinayak
Assistant Professor
Department of Civil Engineering
National Institute of Technology,
Hamirpur -177005 (H.P.)

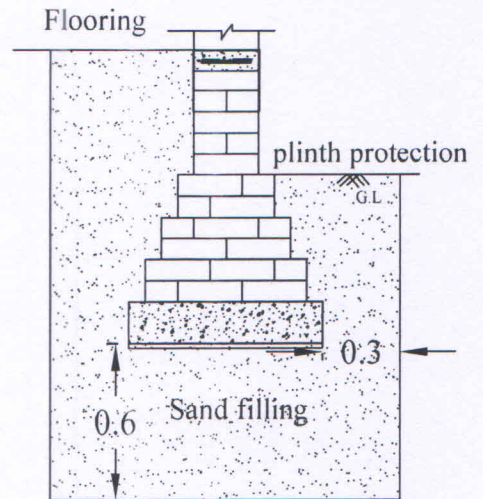
Dr. Pardeep Kumar
Associate Professor (Structural Engg.)
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National Institute of Technology
Hamirpur (H.P.)-177005



ELEVATION



FOOTING DETAILS



- In case of foundation to be constructed in expansive soil
- Clear cover for the reinforcement should be 30mm.

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-OPI-MB-SR-ZIV/DWG-2**

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**BUILDING NAME:
PMAY HFA
OPTION 1
MASONRY BUILDING
SLOPING ROOF
ZONE IV**

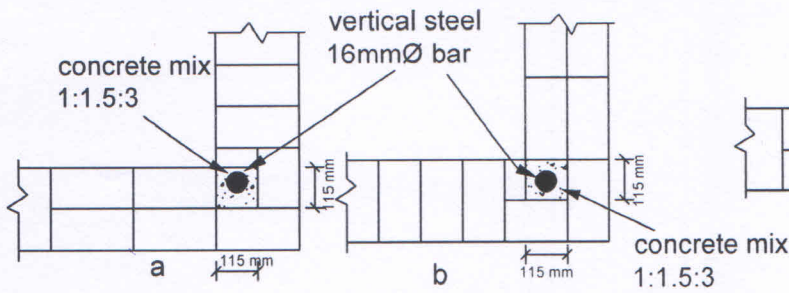
**DRAWING TITLE:
FOOTING DETAIL &
ELEVATION**

**DESIGNED BY:
Dr. Pardeep Kumar
Dr. Hemant Kumar Vinayak**

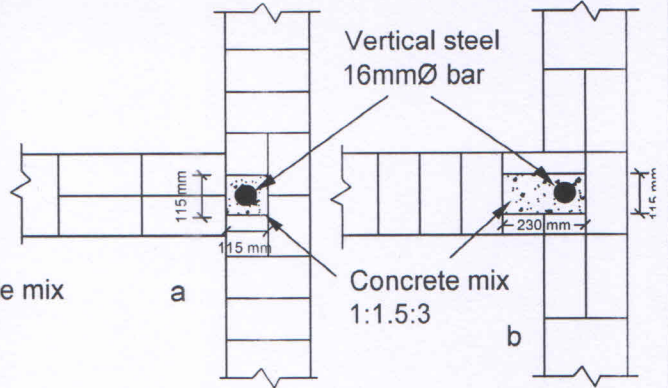
• All dimensions are in meter

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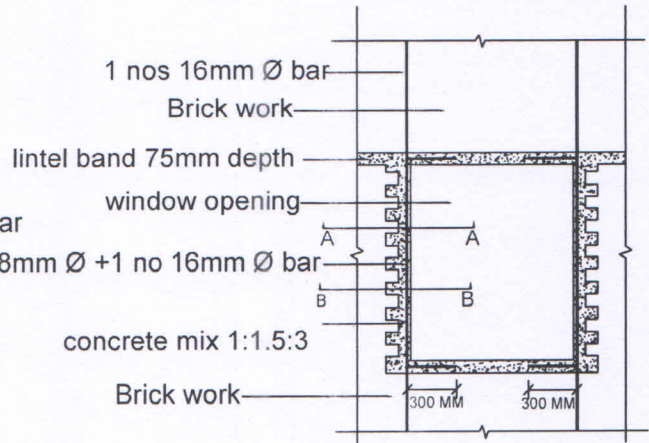
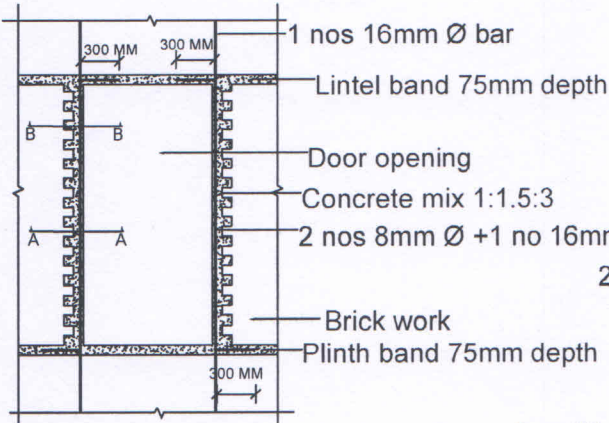
Pardeep Kumar
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Hamirpur (H.P.)-177005



CORNER VERTICAL STEEL
a & b :- alternate courses in one brick wall



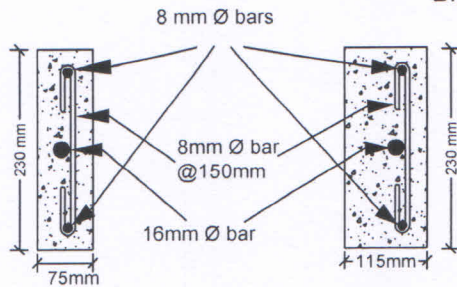
INTERMEDIATE VERTICAL STEEL
a & b :- alternate courses in one brick wall



DETAIL OF R/F AROUND DOOR

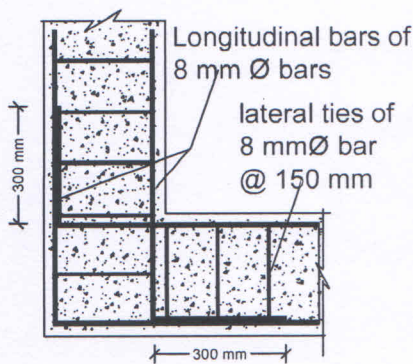
DETAIL OF R/F AROUND WINDOW

- Lap length and development length (L_d) for 8mm Φ is 400 mm
- Clear cover for band should be 30mm.

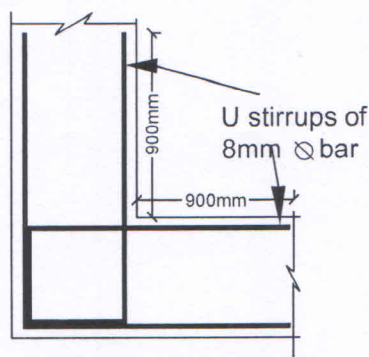


SECTION A-A

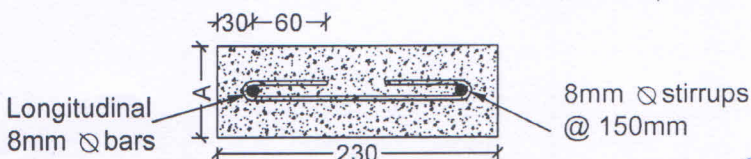
SECTION B-B



DETAIL OF PLINTH/ LINTEL/ ROOF/GABLE BAND



PLAN OF SILL LEVEL R/F



SECTION OF PLINTH/ LINTEL/ A = 75 mm ROOF/GABLE A = 100 mm BAND

All Dimensions are in mm

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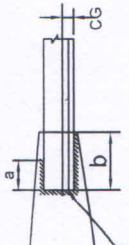
BUILDING NAME:
PMAY HFA
OPTION 1
MASONRY BUILDING
SLOPING ROOF
ZONE IV

DRAWING TITLE:
DETAILS OF R/F AROUND
WINDOW & DOOR,
VERTICAL R/F,
CROSS SECTION OF BAND

DESIGNED BY:
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Dr. Hemant Kumar Vinayak

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NIT, Hamirpur (H.P.)-177005

Sr.No.	NOTES:-										
1.	All dimensions are in mm unless specified.										
2.	Dimensions are not to be scaled out, only written dimensions may be taken as correct.										
3.	Grade of concrete M:20.										
4.	Any discrepancy in structural Drawings should be correlated with Architectural drawing.										
5.	Scale : Not to scale										
6.	Truss has been designed for 0.3m snow depth.										
7.	 <table border="1" data-bbox="574 143 678 641"> <thead> <tr> <th>ANGLE SIZE</th> <th>WELD THK W. mm</th> <th>a(mm)</th> <th>b(mm)</th> <th>GUSSET THK mm</th> </tr> </thead> <tbody> <tr> <td>L 50 x 50 x 6</td> <td>6</td> <td>50</td> <td>90</td> <td>8</td> </tr> </tbody> </table> <p>TYPICAL DETAILS OF WELD LENGTH</p>	ANGLE SIZE	WELD THK W. mm	a(mm)	b(mm)	GUSSET THK mm	L 50 x 50 x 6	6	50	90	8
ANGLE SIZE	WELD THK W. mm	a(mm)	b(mm)	GUSSET THK mm							
L 50 x 50 x 6	6	50	90	8							

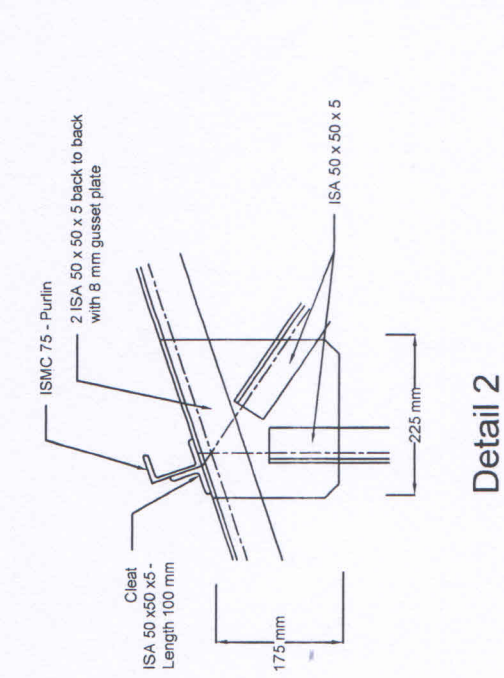
**DRG. No. - NIT/CED/2017/PMAY
-OP1-MB-SR-ZIV/DWG-5**

**NATIONAL INSTITUTE OF
TECHNOLOGY HAMIRPUR**

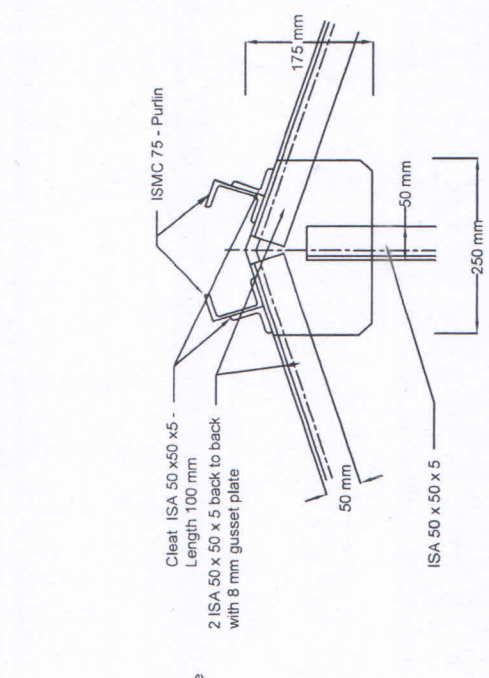
**BUILDING NAME:
PMAY HFA
OPTION I
MASONRY BUILDING
SLOPING ROOF
ZONE IV**

**DRAWING TITLE:
CROSS SECTION OF TRUSS**

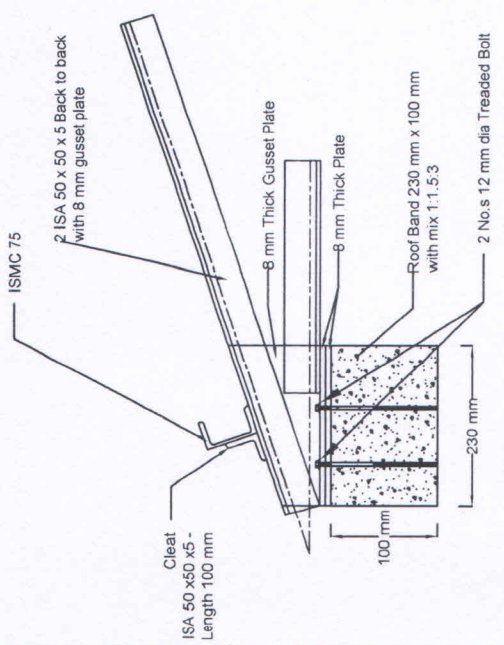
**DESIGNED BY:
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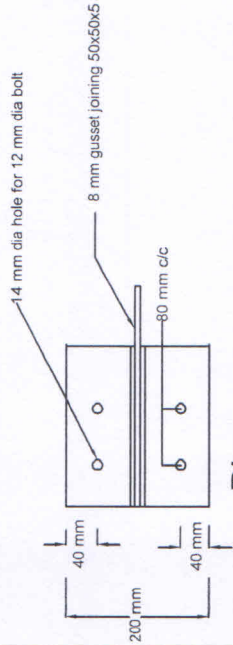
Detail 2



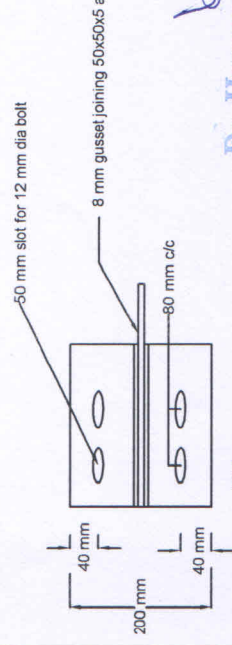
Detail 1



**Elevation
Detail 3**



**Plan
Detail 3**



**Plan
Detail 4**

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