

EDE5002 SUBSTATION EQUIPMENT LAYOUT

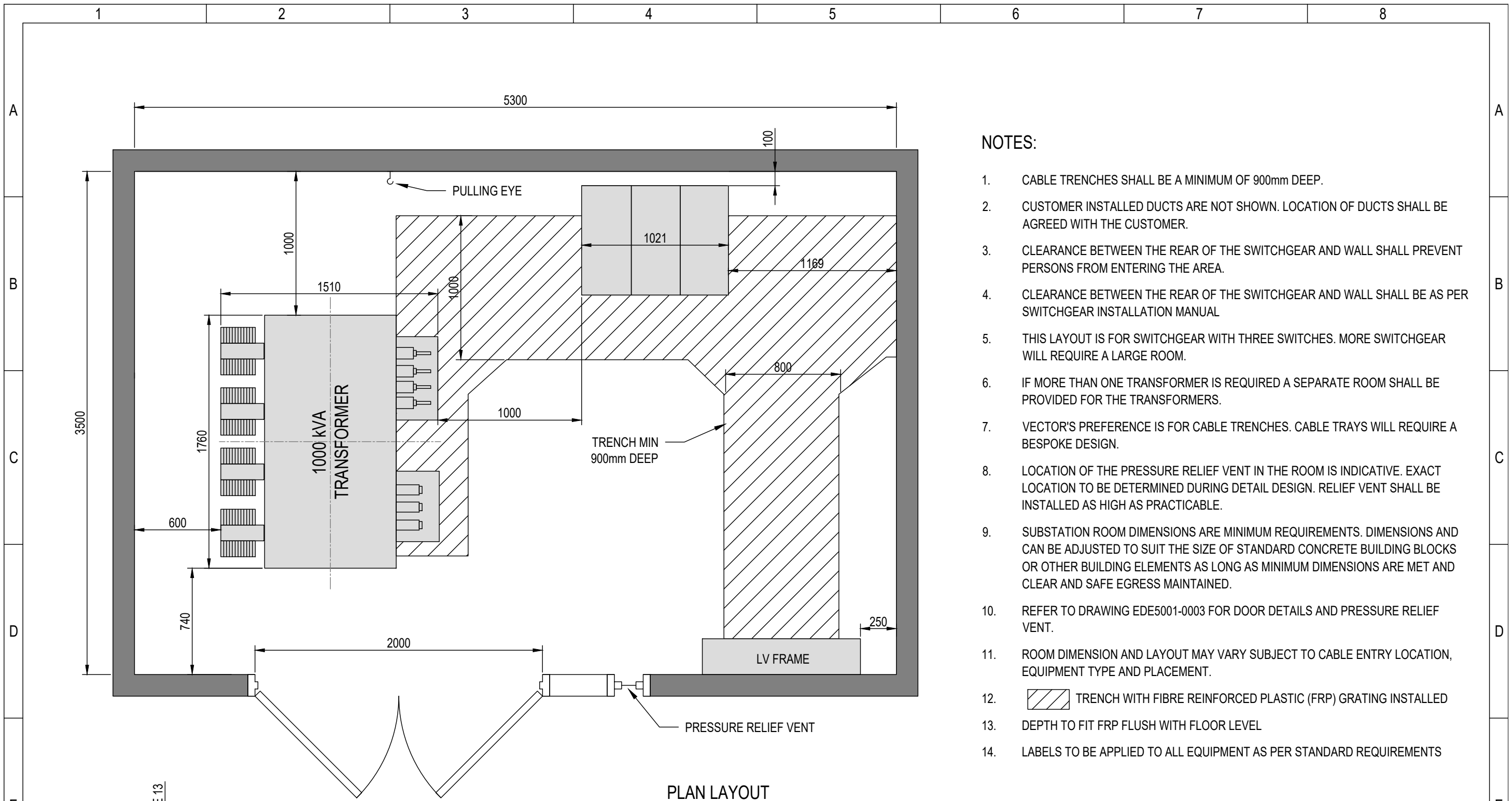
DRAWING No.	TITLE	REVISION									
EDE5002-0000-1	TITLE PAGE AND REVISION HISTORY	1									
EDE5002-0001-1	SINGLE ROOM SUBSTATION WITH CABLE TRENCHES AND WITH LV FRAME UP TO 1000kVA: EXAMPLE 1	1	2								
EDE5002-0002-1	SINGLE ROOM SUBSTATION WITH CABLE TRENCHES AND WITH LV FRAME UP TO 1000kVA: EXAMPLE 2	1	2								
EDE5002-0003-1	SINGLE ROOM SUBSTATION WITH CABLE TRENCHES WITHOUT LV FRAME UP TO 1000kVA TYPICAL LAYOUT	1	2								
EDE5002-0004-1	SUBSTATION WITH TWO TRANSFORMERS UP TO 1000kVA TYPICAL LAYOUT	1	2								
EDE5002-0005-1	SINGLE ROOM SUBSTATION WITH CABLE TRENCHES AND WITH LV FRAME - 1500kVA	1									

REVISION HISTORY		
DATE	REVISION	DESCRIPTION
20/07/2016	1	FIRST ISSUE
29/11/2017	2	DRAWING NUMBER CHANGED

TO BE READ IN CONJUNCTION WITH VECTOR STANDARD ESE501 - DISTRIBUTION SUBSTATIONS IN BUILDINGS

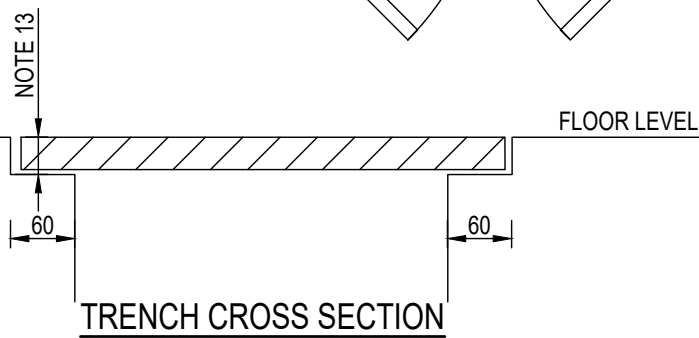
Rev 1	FIRST ISSUE	Date 18/09/2017	Name SC	Consultant	VECTOR	File name:	SUBSTATION EQUIPMENT LAYOUT		Reference designation:		Drawing function:	
				Author	S CONTINI	EDE5002-0000-1.dwg	TITLE PAGE & REVISION HISTORY		Drawing stamp:		Scale at A3:	Doc type:
				Auth Date	18/09/2017	Consultant project no:	ESE501 - DISTRIBUTION SUBSTATIONS IN BUILDINGS		NTS		Rev:	Sheet:
				Checked by	H RICHARDS	Vector project no:	STANDARD DRAWING		Drawing no:		1	1 of 1
				Chk by date	18/09/2017				EDE5002-0000			
Approved by	A PRASAD											
Appr by date	18/09/2017											





NOTES:

1. CABLE TRENCHES SHALL BE A MINIMUM OF 900mm DEEP.
2. CUSTOMER INSTALLED DUCTS ARE NOT SHOWN. LOCATION OF DUCTS SHALL BE AGREED WITH THE CUSTOMER.
3. CLEARANCE BETWEEN THE REAR OF THE SWITCHGEAR AND WALL SHALL PREVENT PERSONS FROM ENTERING THE AREA.
4. CLEARANCE BETWEEN THE REAR OF THE SWITCHGEAR AND WALL SHALL BE AS PER SWITCHGEAR INSTALLATION MANUAL
5. THIS LAYOUT IS FOR SWITCHGEAR WITH THREE SWITCHES. MORE SWITCHGEAR WILL REQUIRE A LARGE ROOM.
6. IF MORE THAN ONE TRANSFORMER IS REQUIRED A SEPARATE ROOM SHALL BE PROVIDED FOR THE TRANSFORMERS.
7. VECTOR'S PREFERENCE IS FOR CABLE TRENCHES. CABLE TRAYS WILL REQUIRE A BESPOKE DESIGN.
8. LOCATION OF THE PRESSURE RELIEF VENT IN THE ROOM IS INDICATIVE. EXACT LOCATION TO BE DETERMINED DURING DETAIL DESIGN. RELIEF VENT SHALL BE INSTALLED AS HIGH AS PRACTICABLE.
9. SUBSTATION ROOM DIMENSIONS ARE MINIMUM REQUIREMENTS. DIMENSIONS AND CAN BE ADJUSTED TO SUIT THE SIZE OF STANDARD CONCRETE BUILDING BLOCKS OR OTHER BUILDING ELEMENTS AS LONG AS MINIMUM DIMENSIONS ARE MET AND CLEAR AND SAFE EGRESS MAINTAINED.
10. REFER TO DRAWING EDE5001-0003 FOR DOOR DETAILS AND PRESSURE RELIEF VENT.
11. ROOM DIMENSION AND LAYOUT MAY VARY SUBJECT TO CABLE ENTRY LOCATION, EQUIPMENT TYPE AND PLACEMENT.
12. TRENCH WITH FIBRE REINFORCED PLASTIC (FRP) GRATING INSTALLED
13. DEPTH TO FIT FRP FLUSH WITH FLOOR LEVEL
14. LABELS TO BE APPLIED TO ALL EQUIPMENT AS PER STANDARD REQUIREMENTS



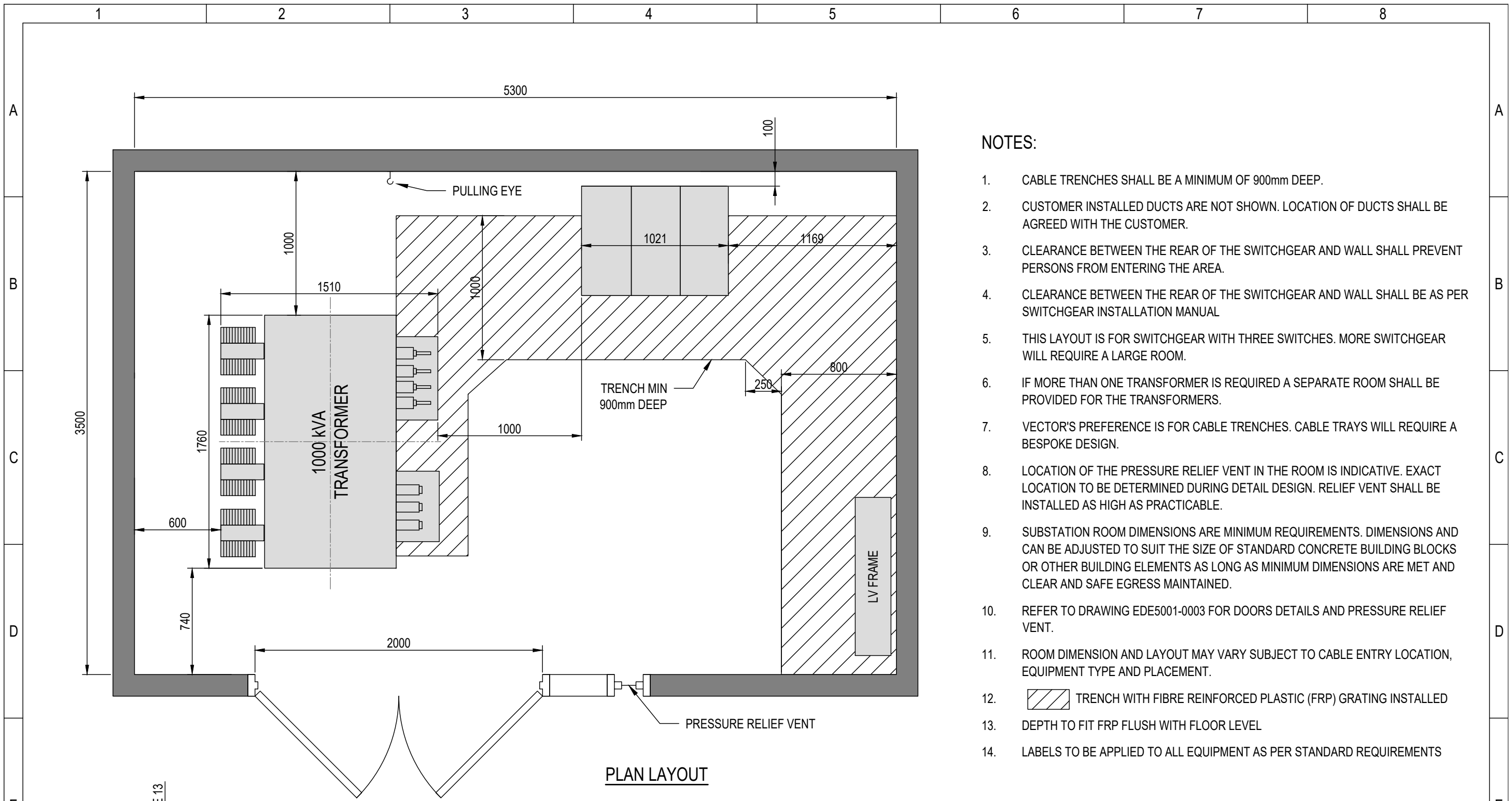
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				Checked by	JM	Vector project no:	Drawing no: EDE5002-0001	Rev: 2	Sheet: 1 of 1
				Chk by date	20/07/16				
				Approved by	AP				
				Appr by date	20/07/16				



**SUBSTATION EQUIPMENT LAYOUT
SINGLE ROOM SUBSTATION WITH CABLE TRENCHES
AND WITH LV FRAME UP TO 1000kVA: EXAMPLE 1**

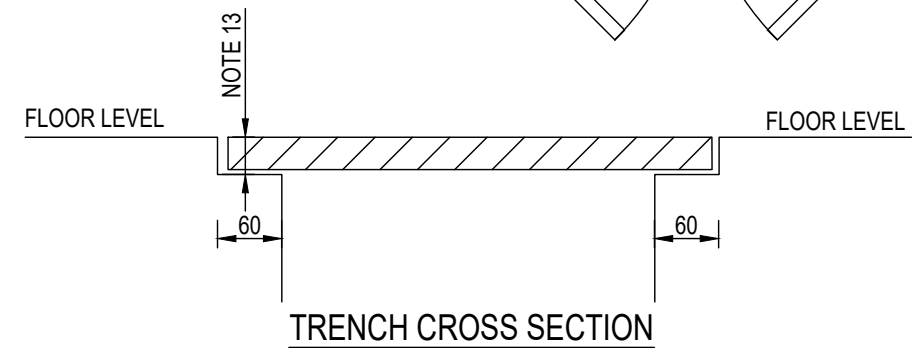
ESE501 - DISTRIBUTION SUBSTATIONS IN BUILDINGS
STANDARD DRAWING



PLAN LAYOUT

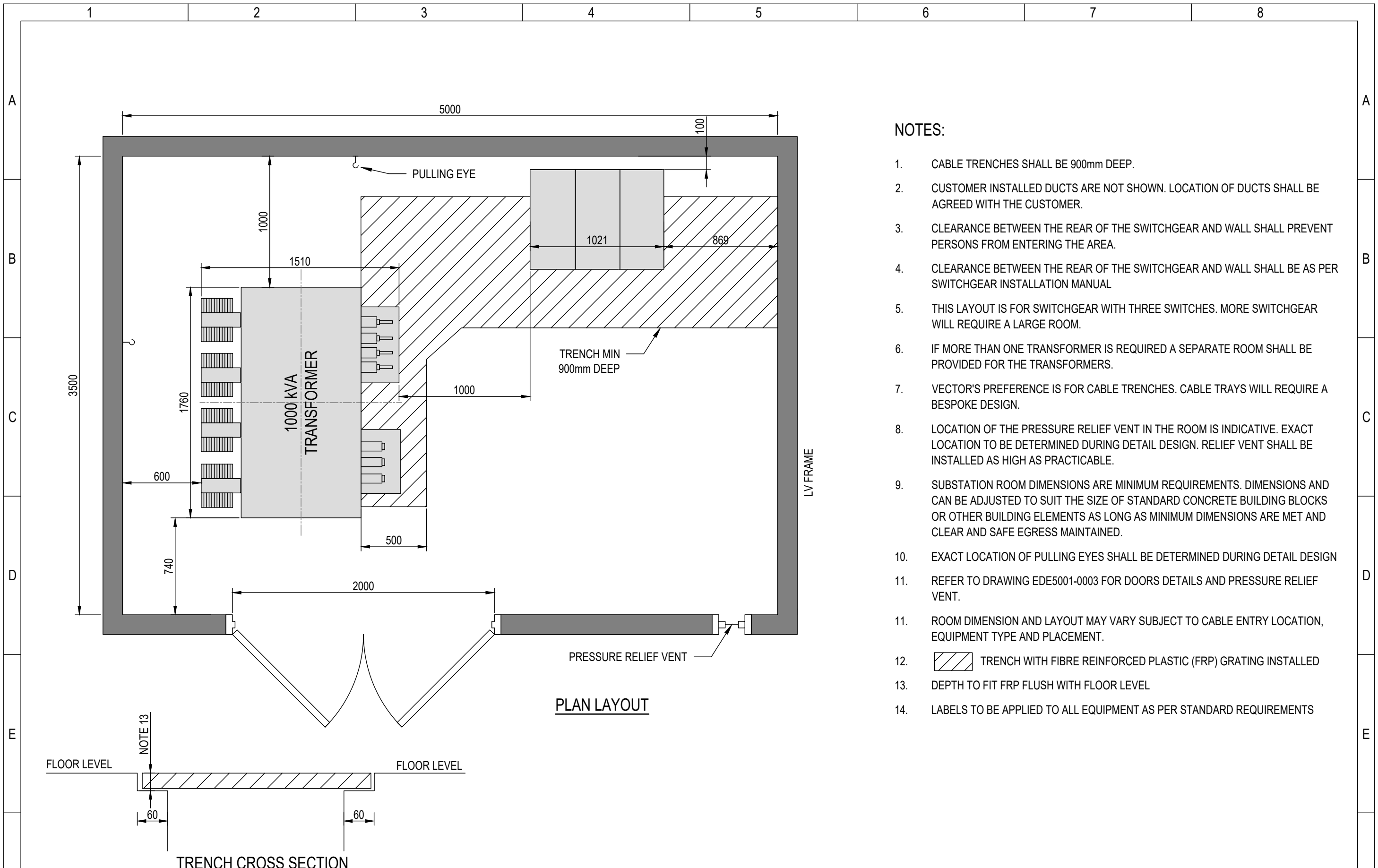
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3. CLEARANCE BETWEEN THE REAR OF THE SWITCHGEAR AND WALL SHALL PREVENT PERSONS FROM ENTERING THE AREA.
4. CLEARANCE BETWEEN THE REAR OF THE SWITCHGEAR AND WALL SHALL BE AS PER SWITCHGEAR INSTALLATION MANUAL
5. THIS LAYOUT IS FOR SWITCHGEAR WITH THREE SWITCHES. MORE SWITCHGEAR WILL REQUIRE A LARGE ROOM.
6. IF MORE THAN ONE TRANSFORMER IS REQUIRED A SEPARATE ROOM SHALL BE PROVIDED FOR THE TRANSFORMERS.
7. VECTOR'S PREFERENCE IS FOR CABLE TRENCHES. CABLE TRAYS WILL REQUIRE A BESPOKE DESIGN.
8. LOCATION OF THE PRESSURE RELIEF VENT IN THE ROOM IS INDICATIVE. EXACT LOCATION TO BE DETERMINED DURING DETAIL DESIGN. RELIEF VENT SHALL BE INSTALLED AS HIGH AS PRACTICABLE.
9. SUBSTATION ROOM DIMENSIONS ARE MINIMUM REQUIREMENTS. DIMENSIONS AND CAN BE ADJUSTED TO SUIT THE SIZE OF STANDARD CONCRETE BUILDING BLOCKS OR OTHER BUILDING ELEMENTS AS LONG AS MINIMUM DIMENSIONS ARE MET AND CLEAR AND SAFE EGRESS MAINTAINED.
10. REFER TO DRAWING EDE5001-0003 FOR DOORS DETAILS AND PRESSURE RELIEF VENT.
11. ROOM DIMENSION AND LAYOUT MAY VARY SUBJECT TO CABLE ENTRY LOCATION, EQUIPMENT TYPE AND PLACEMENT.
12. TRENCH WITH FIBRE REINFORCED PLASTIC (FRP) GRATING INSTALLED
13. DEPTH TO FIT FRP FLUSH WITH FLOOR LEVEL
14. LABELS TO BE APPLIED TO ALL EQUIPMENT AS PER STANDARD REQUIREMENTS



TRENCH CROSS SECTION

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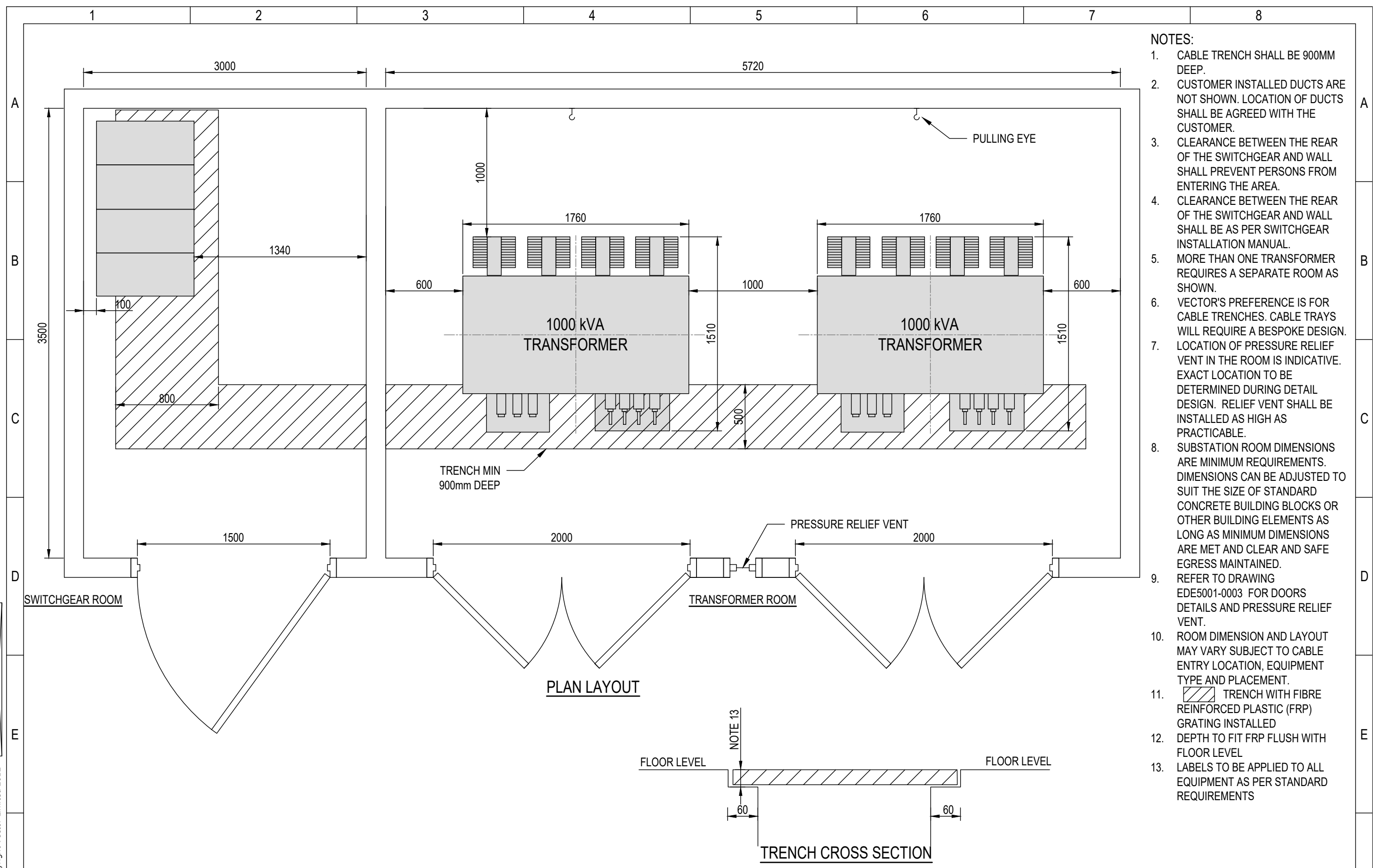
1. CABLE TRENCHES SHALL BE 900mm DEEP.
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3. CLEARANCE BETWEEN THE REAR OF THE SWITCHGEAR AND WALL SHALL PREVENT PERSONS FROM ENTERING THE AREA.
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7. VECTOR'S PREFERENCE IS FOR CABLE TRENCHES. CABLE TRAYS WILL REQUIRE A BESPOKE DESIGN.
8. LOCATION OF THE PRESSURE RELIEF VENT IN THE ROOM IS INDICATIVE. EXACT LOCATION TO BE DETERMINED DURING DETAIL DESIGN. RELIEF VENT SHALL BE INSTALLED AS HIGH AS PRACTICABLE.
9. SUBSTATION ROOM DIMENSIONS ARE MINIMUM REQUIREMENTS. DIMENSIONS AND CAN BE ADJUSTED TO SUIT THE SIZE OF STANDARD CONCRETE BUILDING BLOCKS OR OTHER BUILDING ELEMENTS AS LONG AS MINIMUM DIMENSIONS ARE MET AND CLEAR AND SAFE EGRESS MAINTAINED.
10. EXACT LOCATION OF PULLING EYES SHALL BE DETERMINED DURING DETAIL DESIGN
11. REFER TO DRAWING EDE5001-0003 FOR DOORS DETAILS AND PRESSURE RELIEF VENT.
11. ROOM DIMENSION AND LAYOUT MAY VARY SUBJECT TO CABLE ENTRY LOCATION, EQUIPMENT TYPE AND PLACEMENT.
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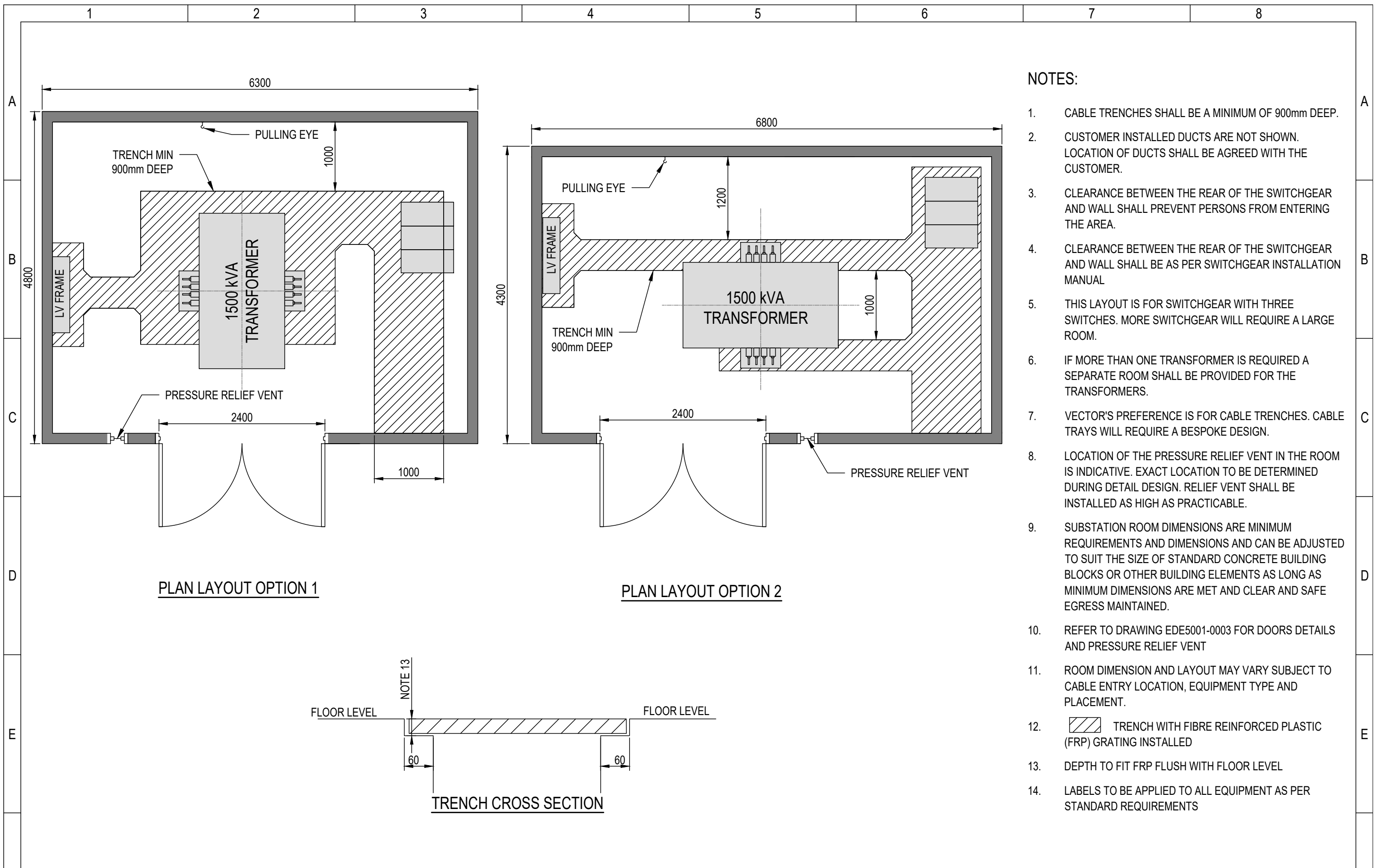
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- NOTES:**
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