

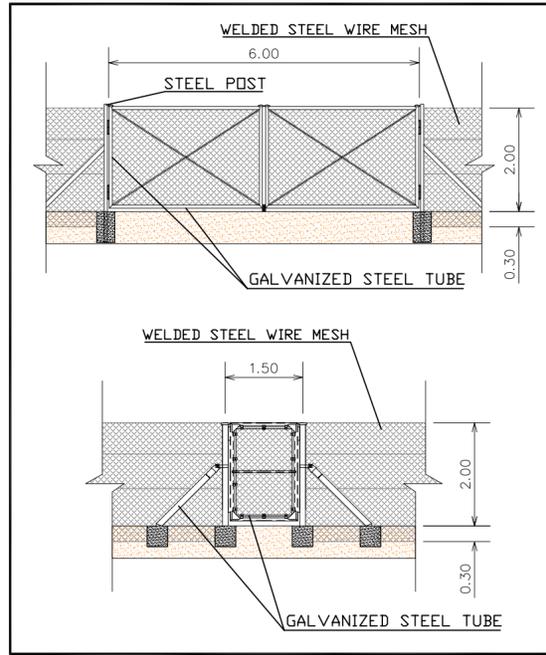
NOTE:

0	12/08/2016	J.L.G.	E.T.	J.A.M.	M.L.C.	Only for Information
REV.	DATE	Drawn	Prep.	Checked	Approved	REASON, STATUS OF REVISION
 INGENIERIA Y SISTEMAS, S.A.		Class: GENERALES Type:  File: PEF2827-041-Dashtadem 1-LDC-R08-ET-160812 Nº: PEF2827-041-Dashtadem 1-LDC				PFV DASHTADEM 1 - 12.5MWp
SCALE: 2016/8 FIRST ISSUE: 12/08/2016 Drawn: J.L.G. E.T. J.A.M. M.L.C.		Client: 				

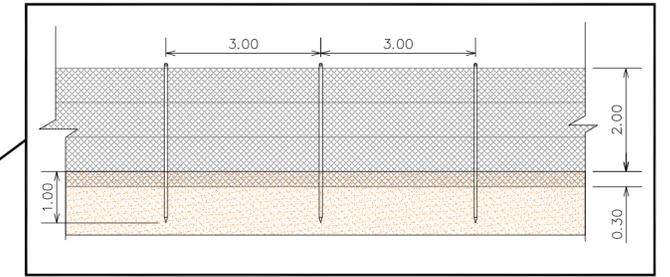
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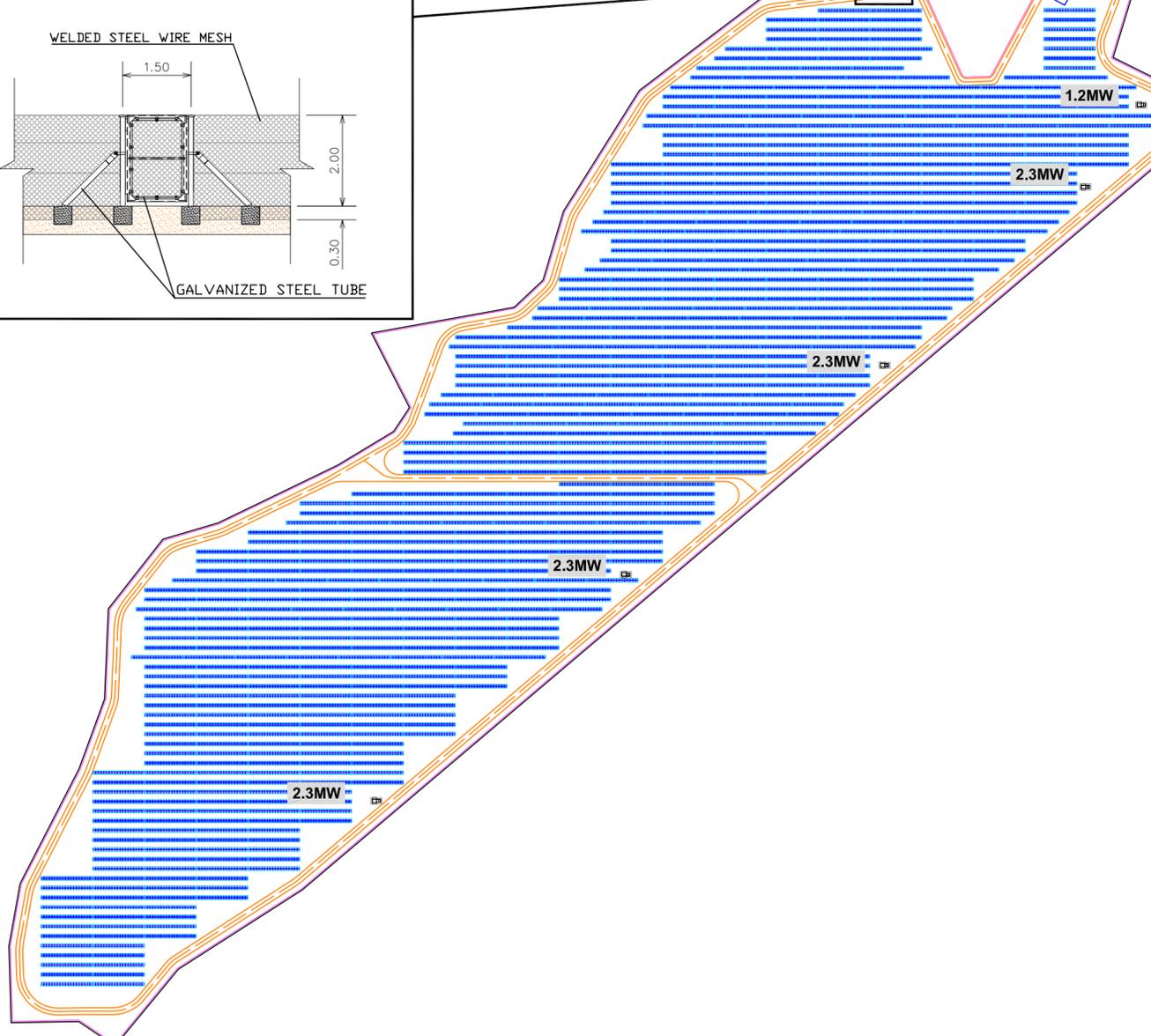
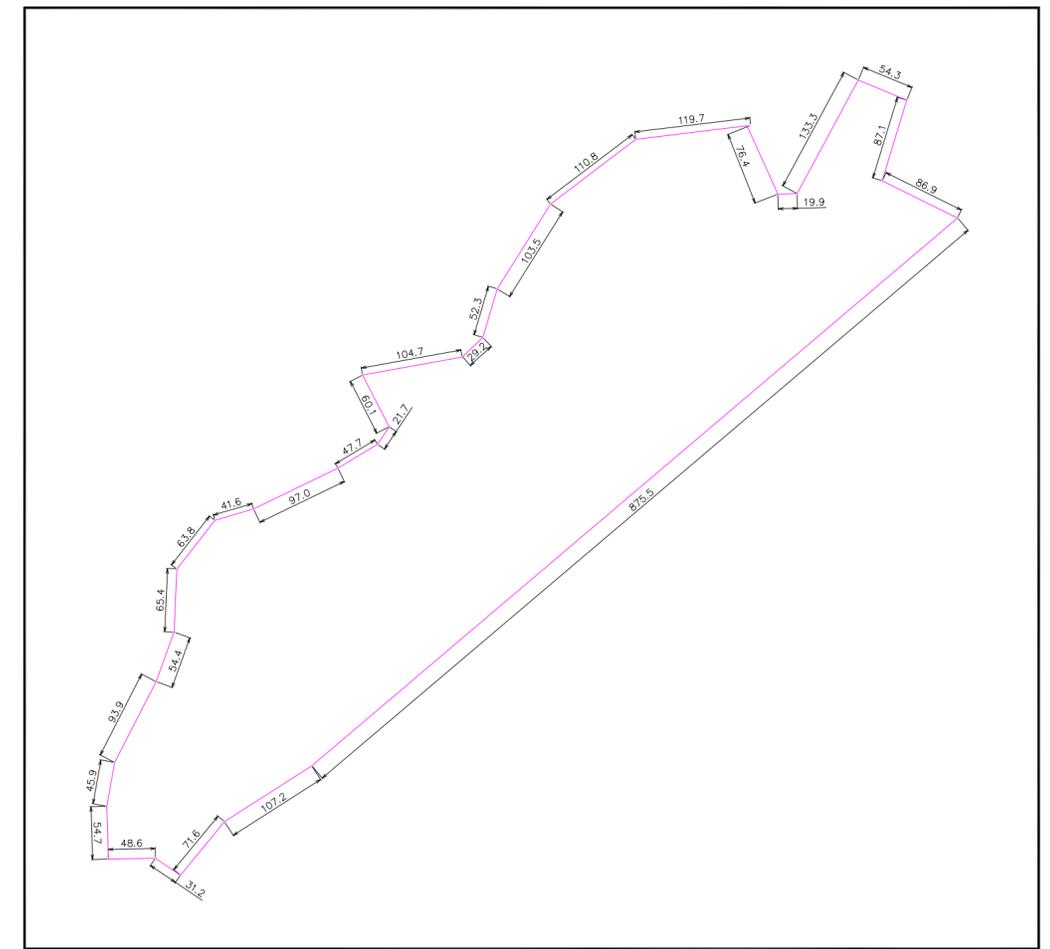
DETAIL OF ACCESS DOORS



DETAIL OF PERIMETER FENCE



PERIMETER FENCE



Installed Peak Power: 12.47MWp
Rated Power: 10.47MWac
PV Modules: 38988 PV Modules
 JINKO SOLAR JKM320P
 2052 strings
 19 PV Modules per string
Structure: Fix Structure
 Horizontal module assembly
 3 strings per structure
 Tilt angle 28°
Power Centers:
 4 Power Centers with:
 - 1 Power Transformer 2330kVA
 - 2 Inverters INGECON SUN 1165TL B420 Outdoor
 1 Power Center with:
 - 1 Power Transformer 1200kVA
 - 1 Inverter INGECON SUN 1165TL B420 Outdoor

LEGEND

- PERIMETER FENCE
- ACCESS AND INTERNAL ROADS
- CONNECTION CENTER
- CONTROL BUILDING
- WAREHOUSE
- PARKING AREA

REV.	DATE	Drawn	Prep.	Checked	Approved	REASON	STATUS OF REVISION
4	17/10/2016	J.L.G.	E.T.	J.A.M.	M.L.C.		Only for Information
3	21/09/2016	J.L.G.	E.T.	J.A.M.	M.L.C.		Only for Information
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1	12/08/2016	J.L.G.	E.T.	J.A.M.	M.L.C.		Only for Information

Author:		Class:	GENERALES
SCALE:	2016/8	Type:	
FIRST ISSUE:	12/08/2016	File:	PEF2827-018-Dashtadem 1 Layout-R04-JLG-161817
Drawn:	J.L.G.	Nº:	PEF2827-018-Dashtadem 1 Layout
Prep:	E.T.	Client:	
Check:	J.A.M.		
Approv:	M.L.C.		

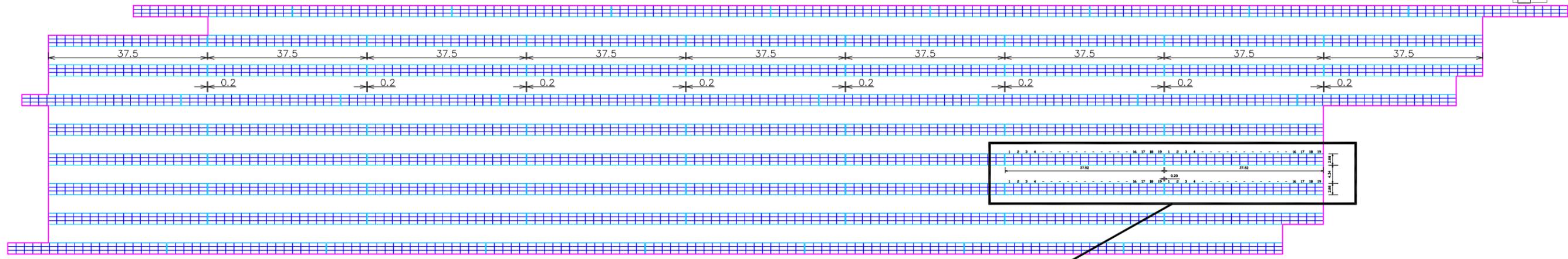
PFV DASHTADEM 1 - 12.5MWp			
GENERAL LAYOUT			
Replaces:	PEF2827-018-Dashtadem 1 Layout-R03-JLG-160921	Sheet:	1
Next:		Size:	A2
Rev:	4		

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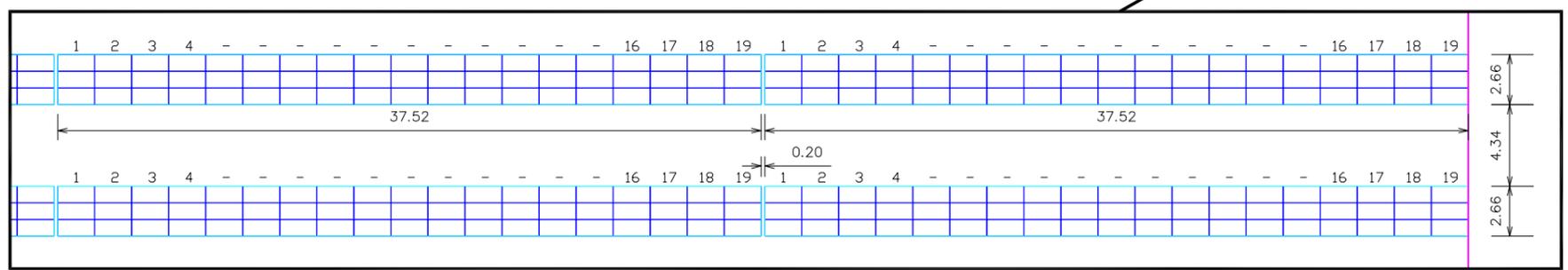
NOTE:

2.3MW



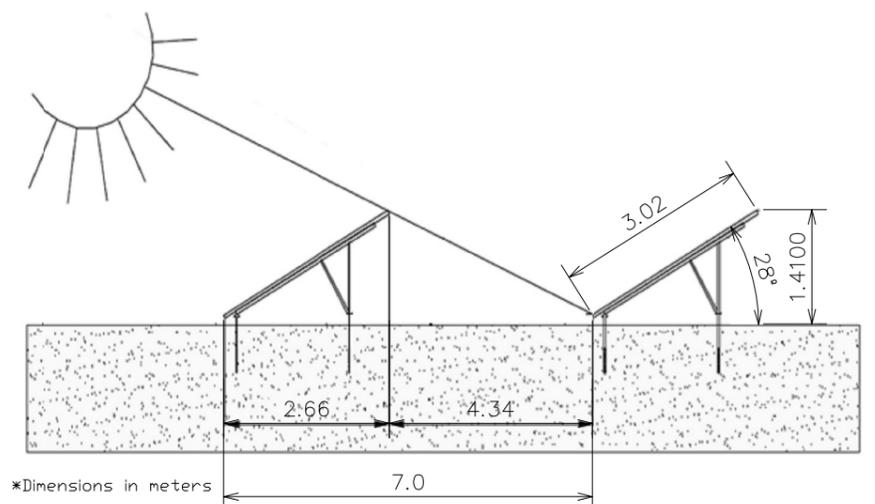
*Dimensions in meters

PV STRUCTURE DETAILS



*Dimensions in meters

DISTANCES DETAILS



*Dimensions in meters

POWER CENTER DATASHEET

Installed Peak Power: 2.773MWp
Rated Power: 2.3MWac
PV Modules: 8664 PV Modules
 JINKO SOLAR JKM320P
 456 strings
 19 PV Modules per string
Structure: Fix Structure
 Horizontal module assembly
 3 strings per structure
 Tilt angle 28°
Power Center:
 - 1 Power Transformer 2330kVA
 - 2 Inverters INGECON SUN 1165TL B420 Outdoor

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2	17/10/2016	J.L.G.	E.T.	E.T.	M.L.C.	Only for Information
1	22/09/2016	J.L.G.	E.T.	E.T.	M.L.C.	Only for Information
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Author:		Class:	GENERAL
		Type:	PROTOTYPE
		File:	PEF2827-037-Dashtadem 1-BLOCK LAY-R02-JLG-161017
		Nº:	PEF2827-037-Dashtadem 1-BLOCK LAY
SCALE:	2016/8	Client:	
	FIRST ISSUE: 12/08/2016		
	Drawn: I.B.S. Prep: E.T. Check: E.T. Approv: M.L.C.		
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			Sheet: 1 Next: 2 SIZE: A3
			Rev: 2

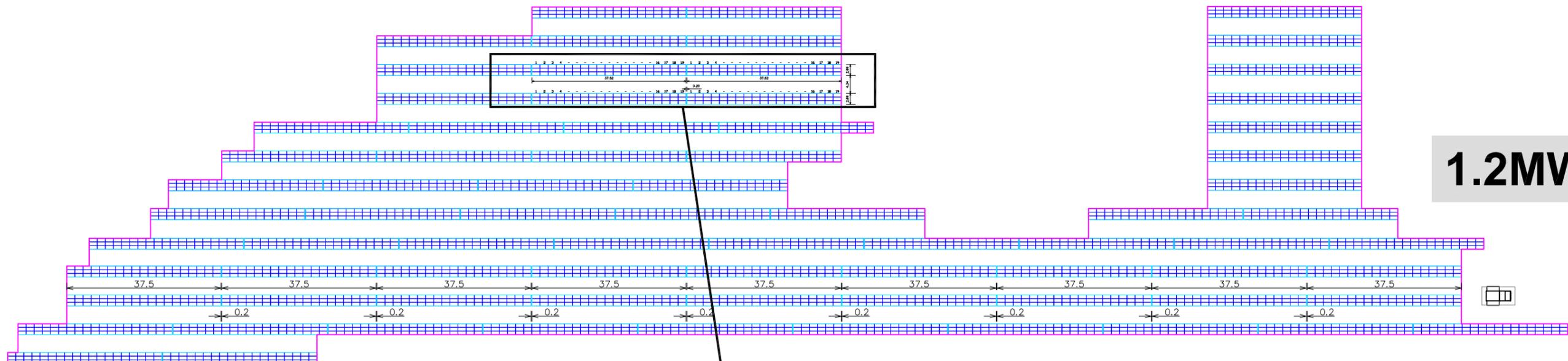
PFV DASHTADEM 1 - 12.5MWp

BLOCK LAYOUT

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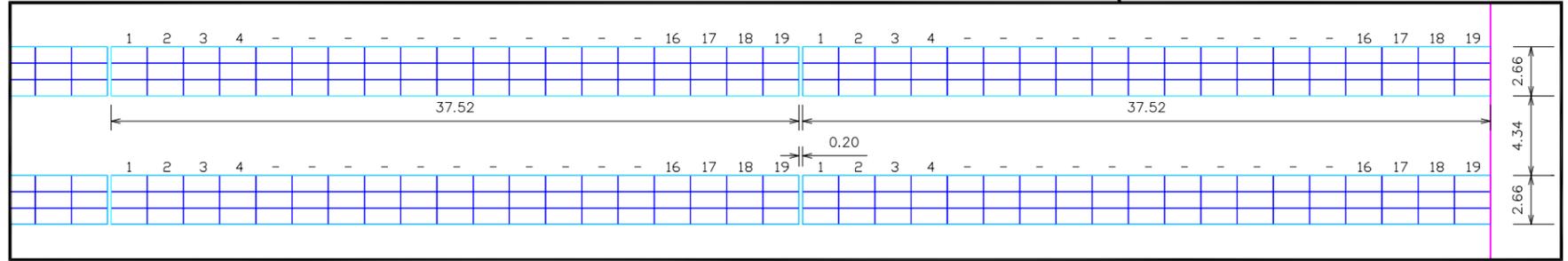
NOTE:



1.2MW

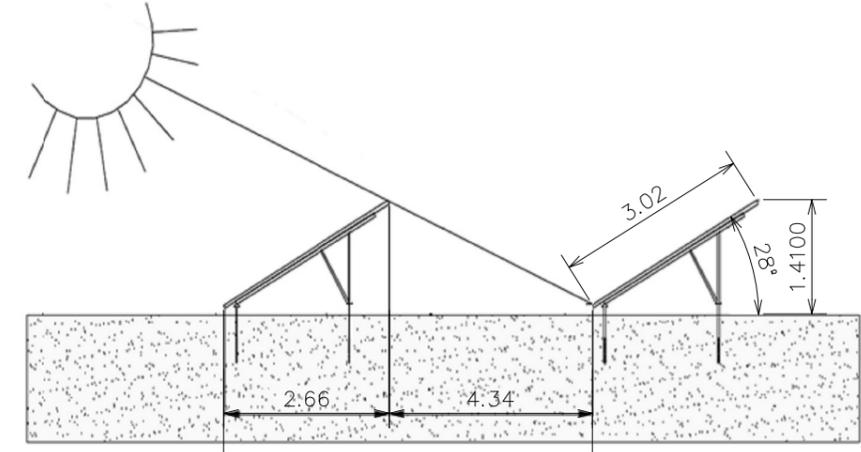
*Dimensions in meters

PV STRUCTURE DETAILS



*Dimensions in meters

DISTANCES DETAILS



*Dimensions in meters

POWER CENTER DATASHEET

Installed Peak Power: 1.386MWp
Rated Power: 1.2MWac
PV Modules: 4332 PV Modules
 JINKO SOLAR JKM320P
 456 strings
 19 PV Modules per string
Structure: Fix Structure
 Horizontal module assembly
 3 strings per structure
 Tilt angle 28°
Power Center:
 - 1 Power Transformer 1200kVA
 - 1 Inverters INGECON SUN 1165TL B420 Outdoor

REV.	DATE	Drawn	Prep.	Checked	Approved	REASON. STATUS OF REVISION
2	17/10/2016	J.L.G.	E.T.	E.T.	M.L.C.	Only for Information
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0	12/08/2016	I.B.S.	E.T.	E.T.	M.L.C.	Only for Information

Author:		Class:	GENERAL
		Type:	PROTOTYPE
		File:	PEF2827-037-Dashtadem 1-BLOCK LAY-R02-JLG-161017
		Nº:	PEF2827-037-Dashtadem 1-BLOCK LAY
Client:			
2016/8			
FIRST ISSUE:	12/08/2016		
Drawn:	Prep.	Check.	Approv.
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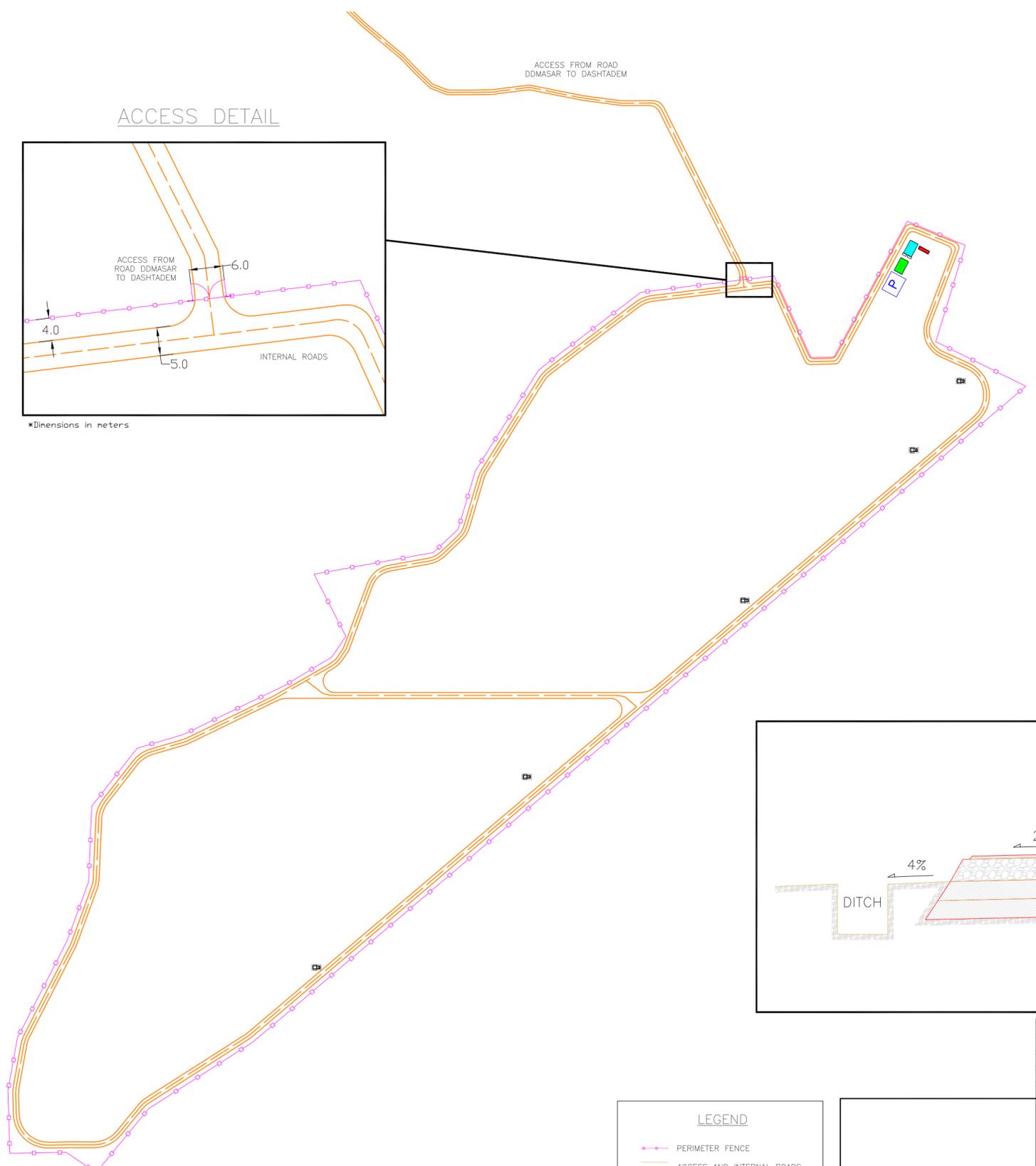
PFV DASHTADEM 1 - 12.5MWp

BLOCK LAYOUT

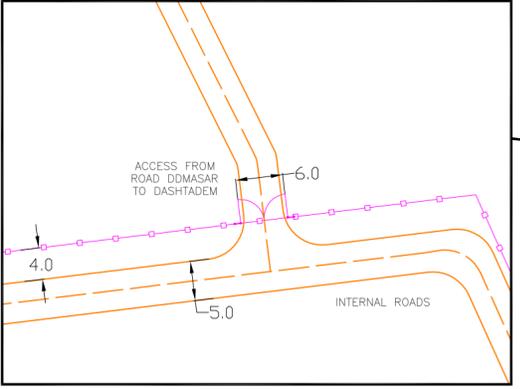
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NOTE:

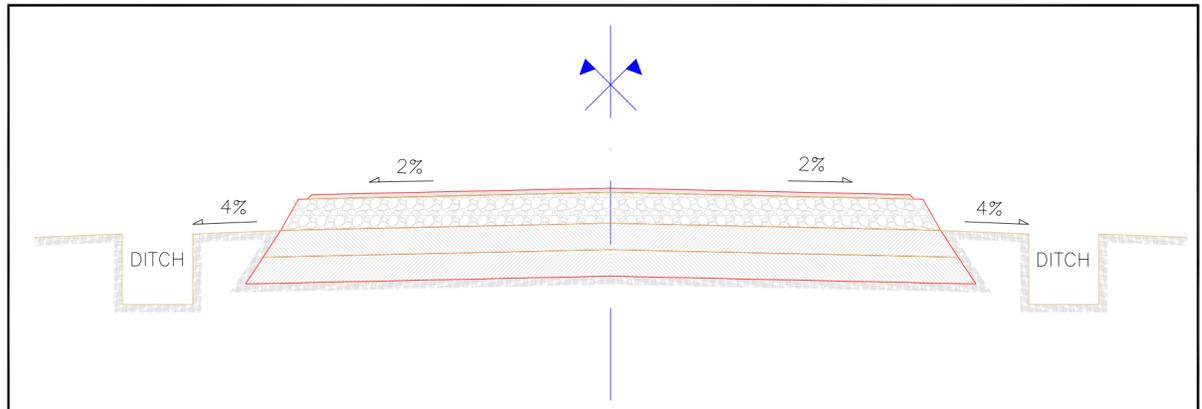


ACCESS DETAIL



*Dimensions in meters

ROAD SECTION TYPE



LEGEND

- PERIMETER FENCE
- ACCESS AND INTERNAL ROADS
- CONNECTION CENTER
- CONTROL BUILDING
- WAREHOUSE
- PARKING AREA

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3	17/10/2016	J.L.G.	E.T.	J.A.M.	M.L.C.	Only for Information
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0	12/08/2016	I.B.S.	E.T.	J.A.M.	M.L.C.	Only for Information

Author:		Class:	GENERAL
		Type:	PROTOTYPE
		File:	PEF2827-039-Dashtaden 1-ROADS-R02-JLG-161017
		Nº:	PEF2827-039-Dashtaden 1-ROADS
		Client:	

2016/8	FIRST ISSUE:	12/08/2016	Client:		Rev:	2
Drawn:	Prep.	Check:	Approv		Replaces:	PEF2827-039-Dashtaden 1-ROADS-R02-JLG-161017
I.B.S.	E.T.	J.A.M.	M.L.C.		Sheet:	1
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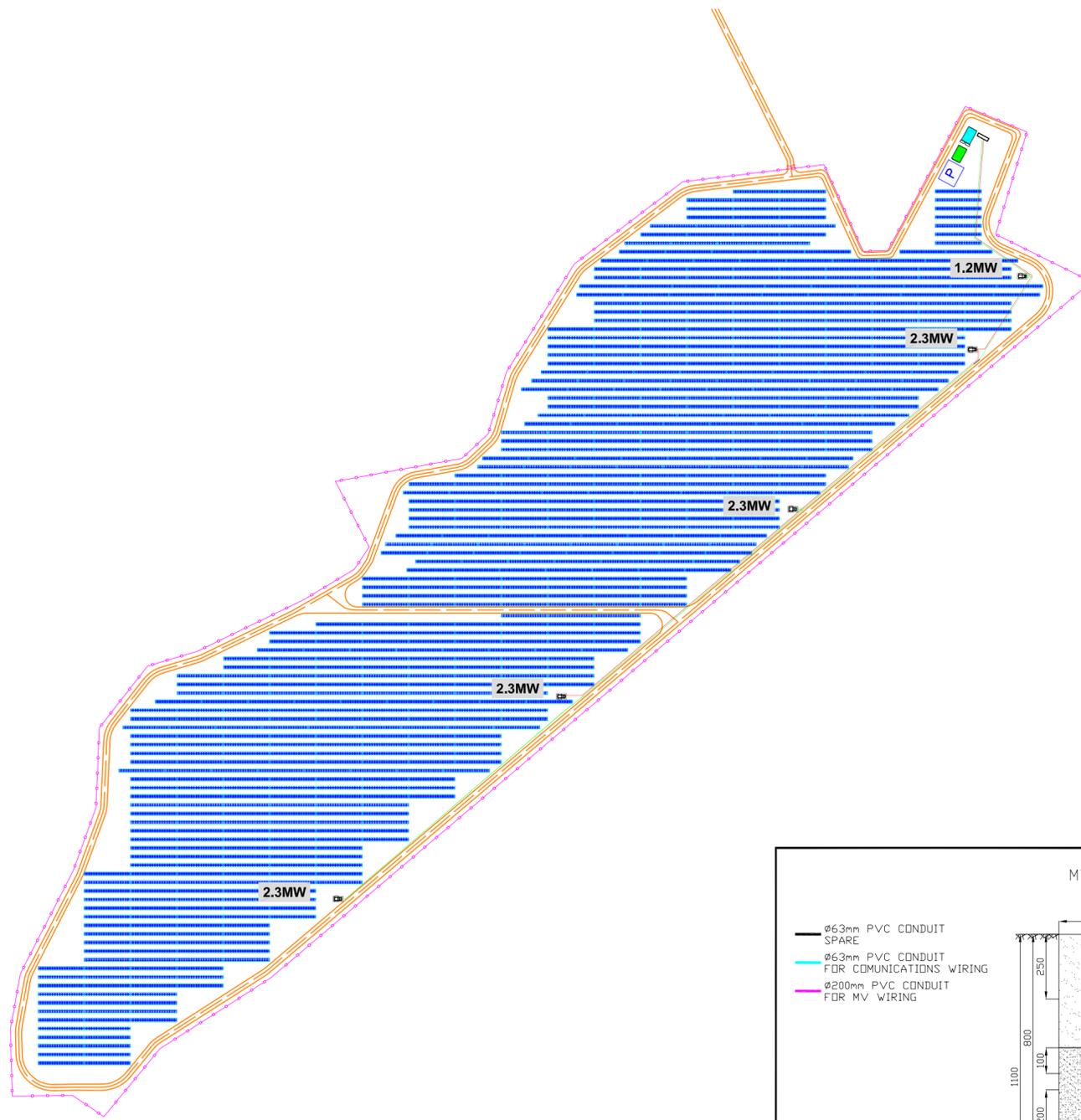
PFV DASHTASEM 1 - 12.5MWp

ACCESS AND INTERNAL ROADS

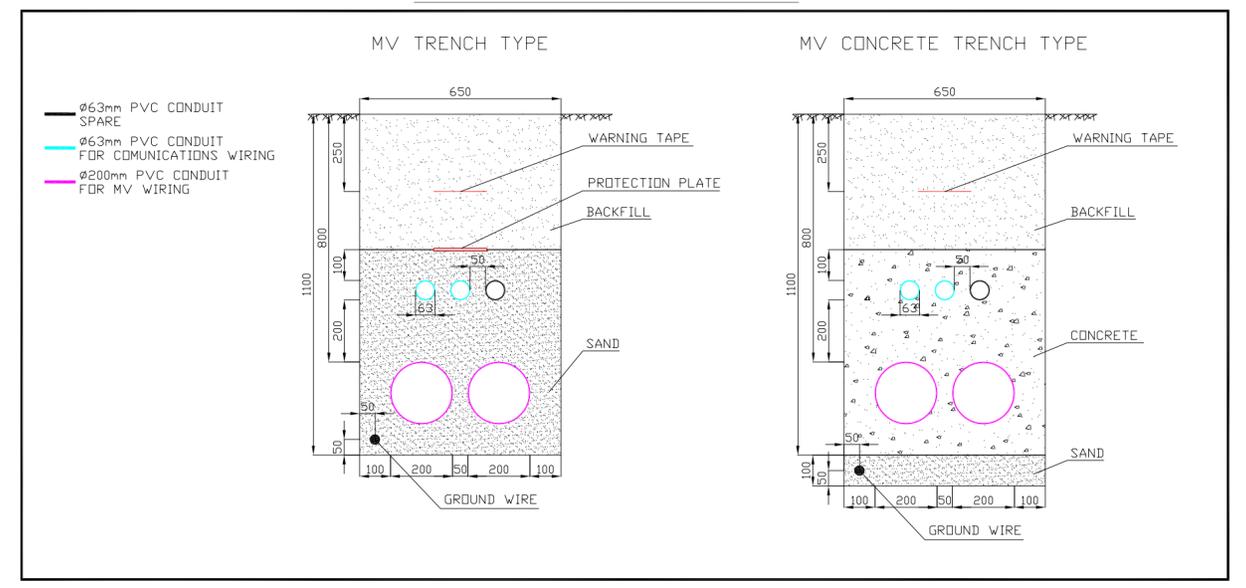
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NOTE:



DETAIL OF MV TRENCHES



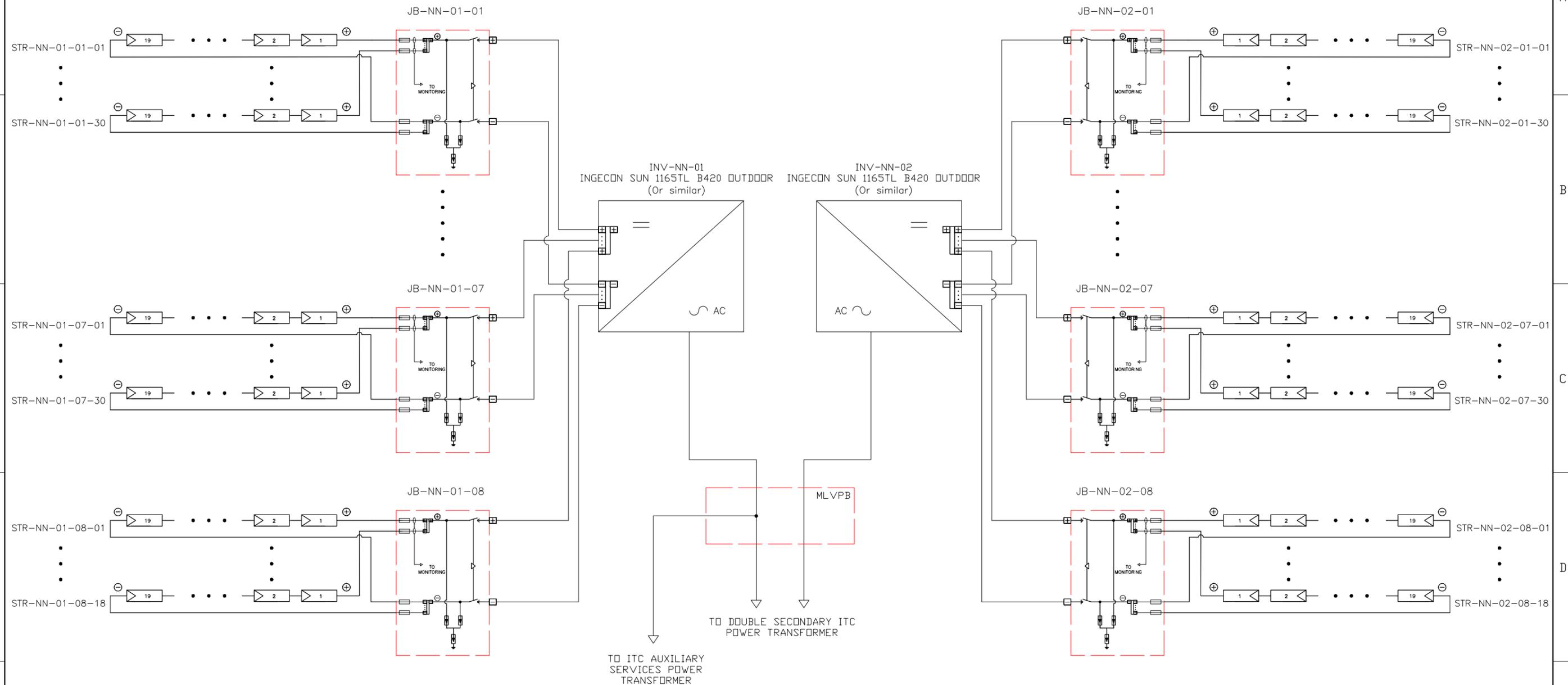
*Dimensions in millimeters

LEGEND	
	MV POWER CIRCUIT 1
	MV POWER CIRCUIT 2
	ITC (Inverter Transformer Center)
	PERIMETER FENCE
	CONNECTION CENTER
	CONTROL BUILDING
	WAREHOUSE
	PARKING AREA

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<p>Author: </p> <p>Class: GENERAL</p> <p>Type: PROTOTYPE </p> <p>File: PEF2827-040-Dashtadem 1-MV LINE LAY-R02-J.L.G-160817</p> <p>Nº: PEF2827-040-Dashtadem 1-MV LINE LAY</p> <p>Client: </p>						<p>PFV DASHTADEM 1 - 12.5MWp</p> <p>MEDIUM VOLTAGE LINES LAYOUT</p>
<p>2016/8</p> <p>FIRST ISSUE: 12/08/2016</p> <p>Drawn: I.B.S. E.T. J.A.M. M.L.C.</p>						<p>Replaces: PEF2827-040-Dashtadem 1-MV LINE LAY-R01-J.L.G-160802</p> <p>Sheet: 1 Next: - SIZE: A2</p>
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2.3MW POWER BLOCK

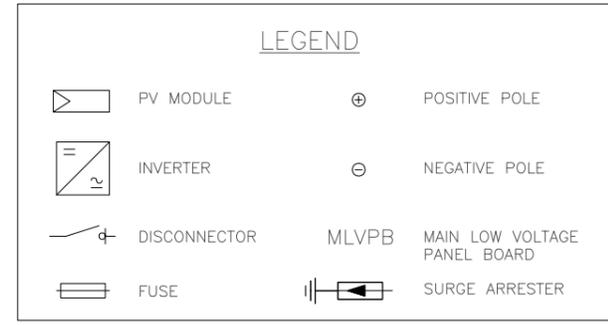
NOTE:



STR-NN-MM-nn-mm
 No. of string
 No. of Juntion Box
 No. of inverter
 No. of ITC
 STRING

JB-NN-MM-nn
 No. of Juntion Box
 No. of inverter
 No. of ITC
 JUNCTION BDX

INV-NN-MM
 No. of inverter
 No. of ITC
 INVERTER



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Author: **ARIES** INGENIERIA Y SISTEMAS, S.A.

Class: GENERAL

Type: PROTOTYPE

File: PEF2827-042-Dashtadem 1-DC SLD-R02-ET-161017

Nº: PEF2827-042-Dashtadem 1-DC SLD

Client: **R2E2**

2016/8

FIRST ISSUE: 12/08/2016

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Replaces: PEF2827-042-Dashtadem 1-DC SLD-R01-ET-160930

DC SINGLE LINE DIAGRAM

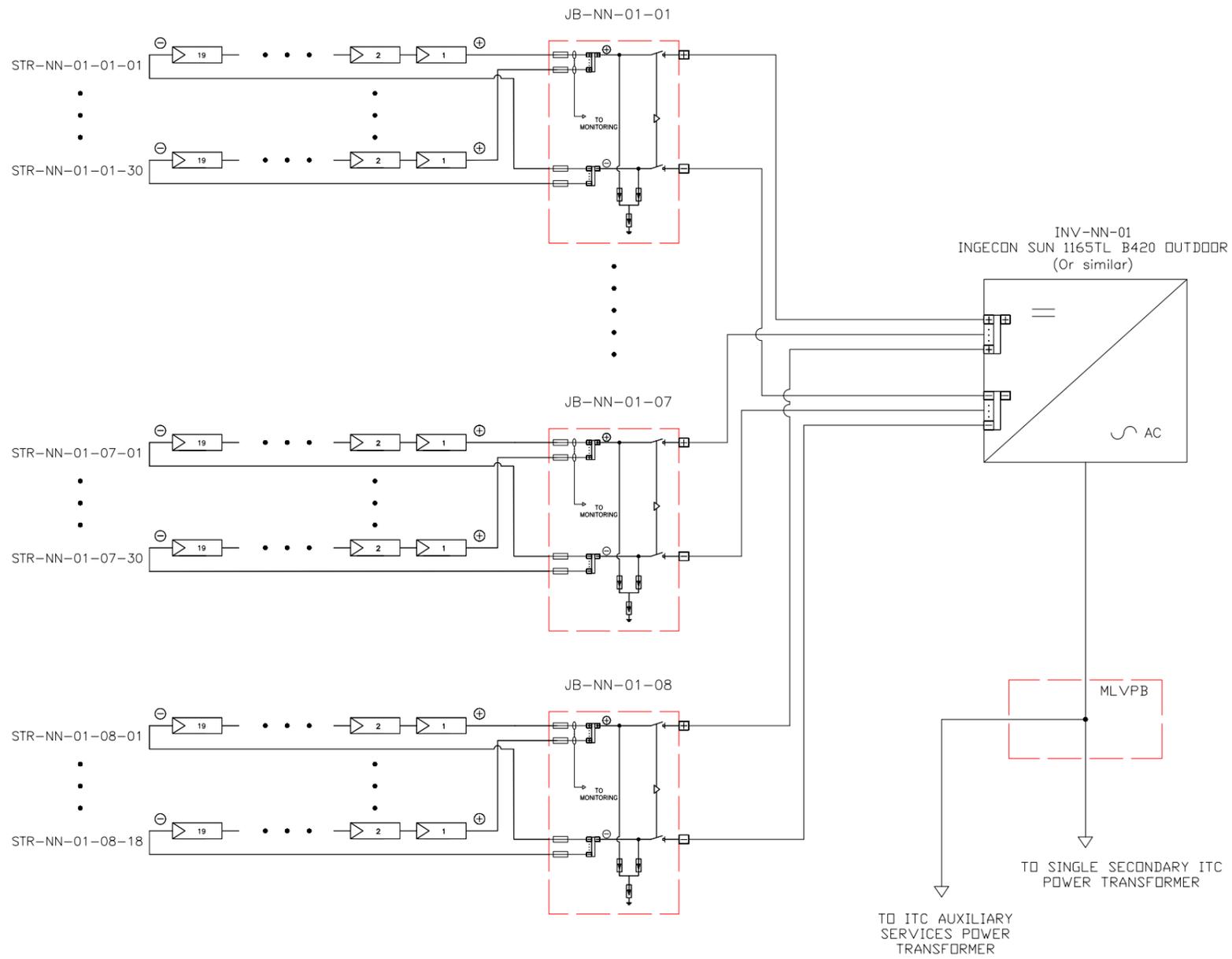
Rev: 2

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1.2MW POWER BLOCK

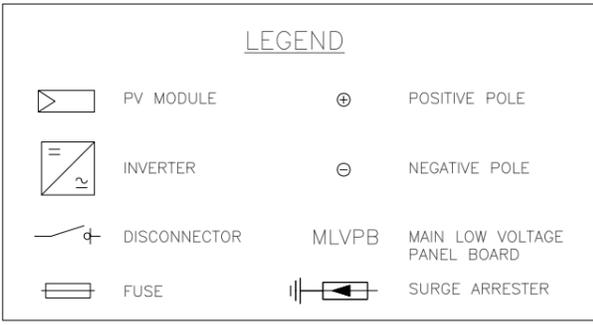
NOTE:



STR-NN-MM-nn-mm
 No. of string
 No. of Juntion Box
 No. of inverter
 No. of ITC
 STRING

JB-NN-MM-nn
 No. of Juntion Box
 No. of inverter
 No. of ITC
 JUNTION BDX

INV-NN-MM
 No. of inverter
 No. of ITC
 INVERTER

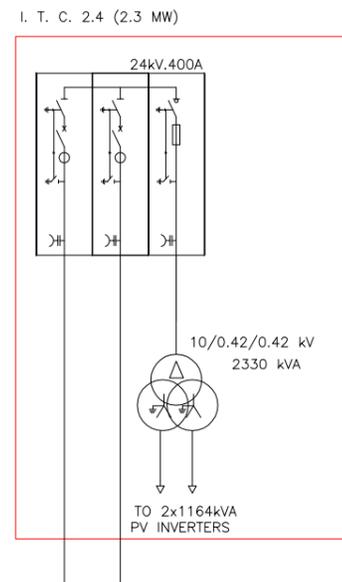
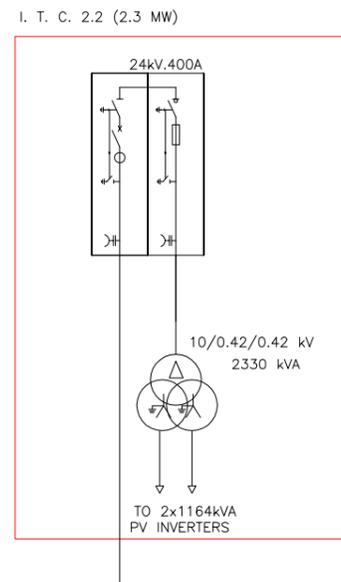


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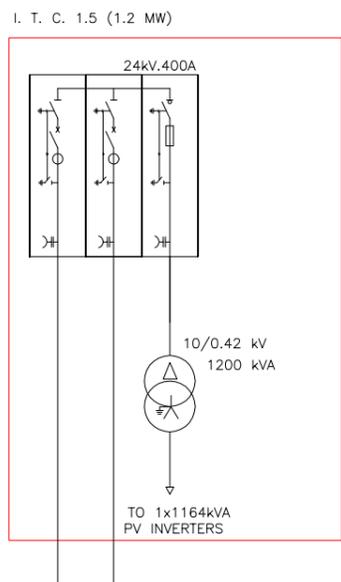
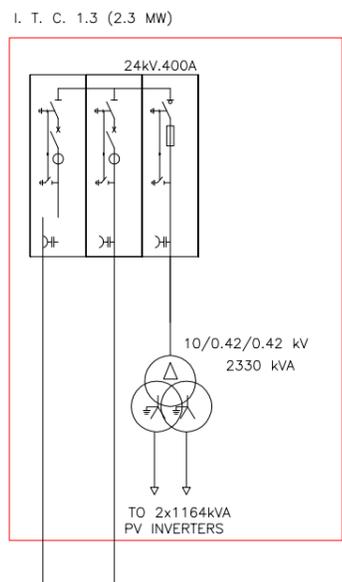
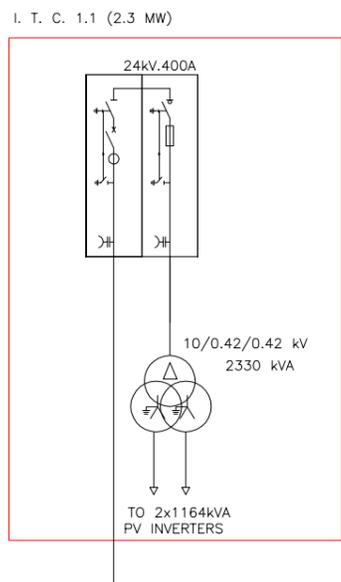
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File:		PEF2827-042-Dashtadem 1-DC SLD-R02-ET-161017	
Nº:		PEF2827-042-Dashtadem 1-DC SLD	
Client:			
Scale:		FIRST ISSUE: 12/08/2016 Drawn: Prep. Check. Approv. I.B.S. E.T. J.A.M. M.L.C.	
DC SINGLE LINE DIAGRAM		Replaces:	PEF2827-042-Dashtadem 1-DC SLD-R01-ET-160930
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		Next:	-
		Size:	A3
		Rev:	1

A
B
C
D
E
F

A
B
C
D
E
F



TO CONNECTION
CENTER SWITCHGEAR 2



TO CONNECTION
CENTER SWITCHGEAR 1

LEGEND	
	Ground Connection
	Medium Voltage Current Transformer
	Medium Voltage Switch
	Medium Voltage Circuit breaker
	Power Transformer
	Power Transformer with double secondary winding
	Delta
	Wye
	Voltage Detector
	Medium Voltage Transformer
	Medium Voltage Current Transformer
	Fuse

NOTE: Due to the PV plant location, the design of electrical equipment shall take into account the altitude of the site above sea level.

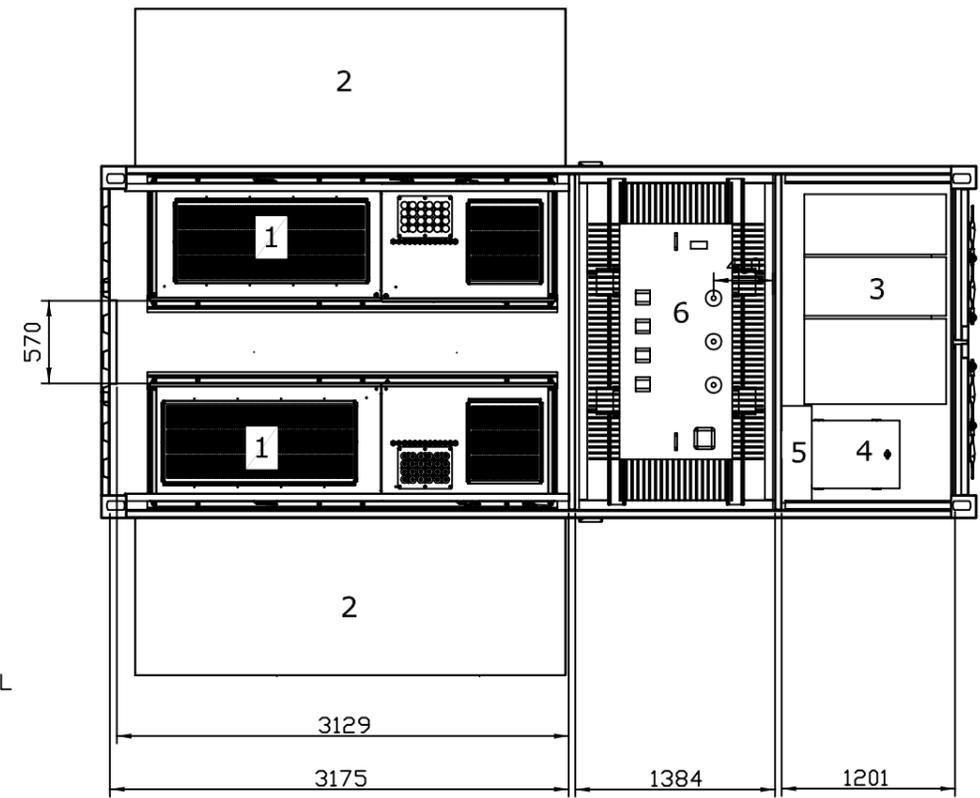
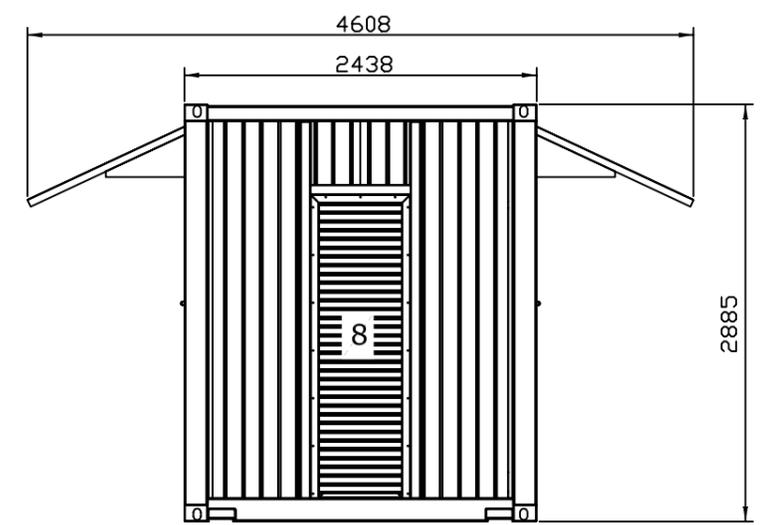
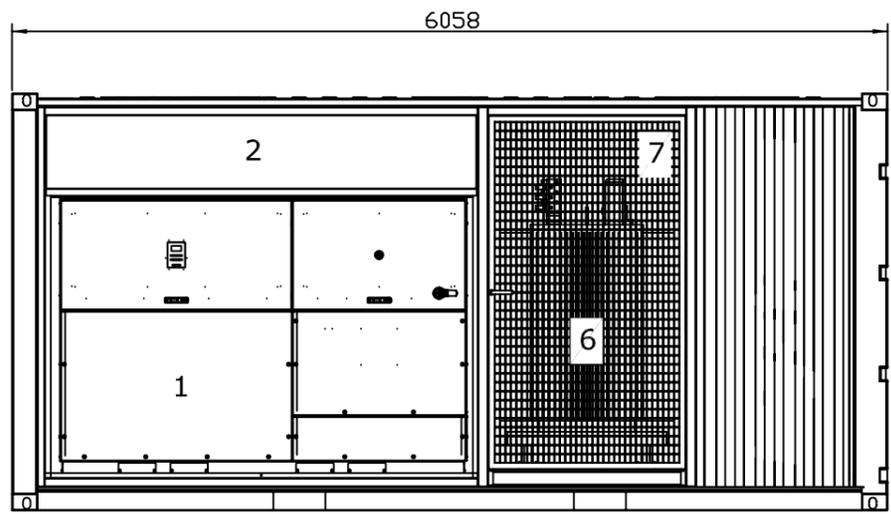
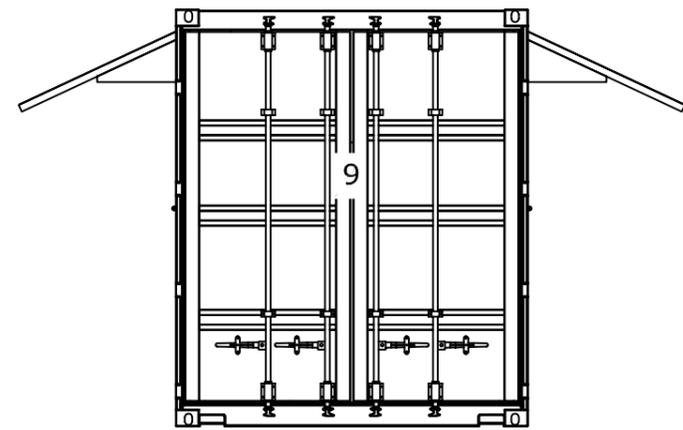
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1	17/10/2016	I.R.	E.T.	J.A.M.	M.L.C.	Only for Information
0	12/08/2016	I.R.	E.T.	J.A.M.	M.L.C.	Only for Information

Author:	Class: GENERAL	<p>PFV DASHTADEM 1 - 12.5MWp</p> <p>MEDIUM VOLTAGE SINGLE LINE DIAGRAM</p> <p>Replaces: PEF2827-038-Dashtadem 1-MV SLD-R00-IR-160812.dwg</p> <p>Sheet: 1 Next: - SIZE: A3</p>
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2016/8	File: PEF2827-038-Dashtadem 1-MV SLD-R01-IR-161017.dwg	
FIRST ISSUE: 12/08/2016	Nº: PEF2827-038-Dashtadem 1-MV SLD	
Drawn: I.R.	Prep: E.T.	Client:
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INVERTER TRANSFORMER CENTER – 2,3MW

NOTE:
Dimensions in milimeters

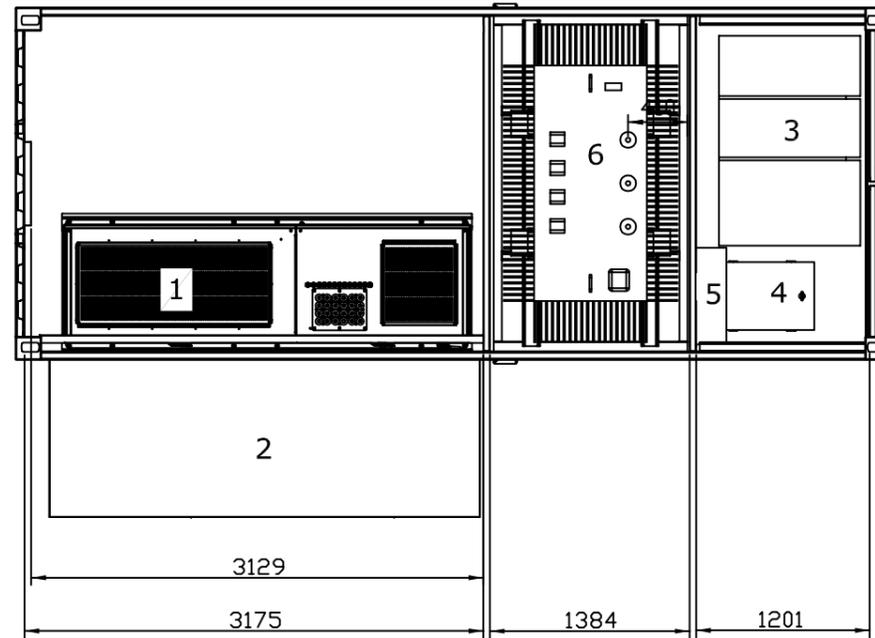
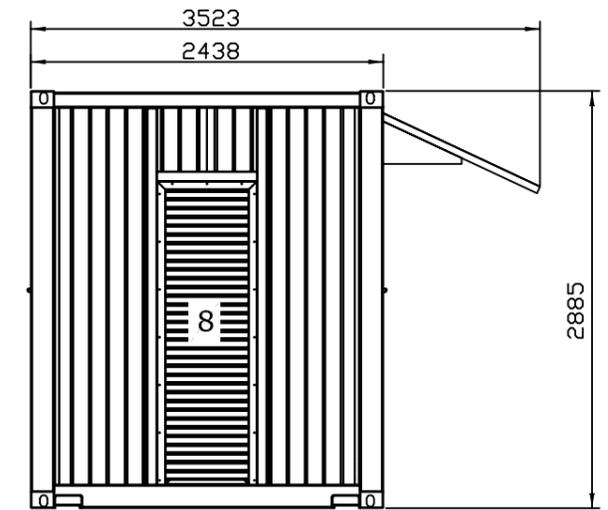
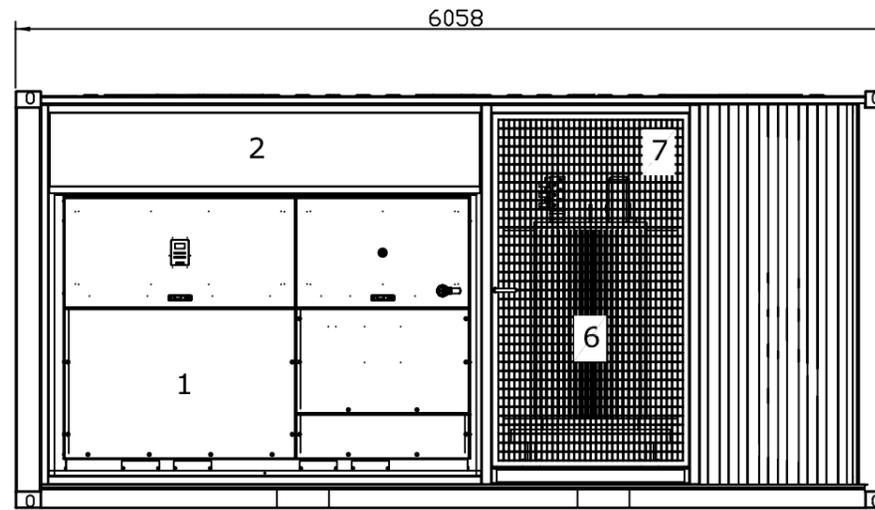
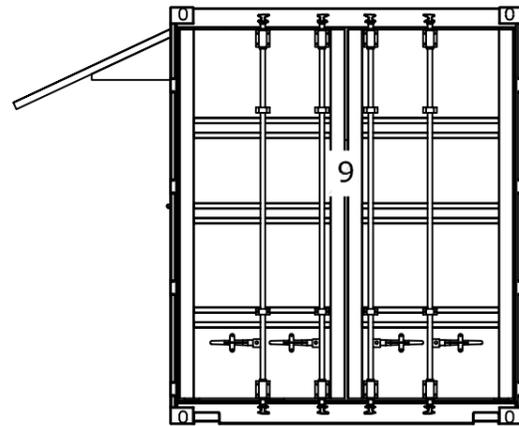


- ① INVERTER
- ② PROTECTIVE SCREEN
- ③ HV SWITCHGEAR UPTO 36 KV
- ④ AUXILIAR TRANSFORMER UPTO 50 KVA
- ⑤ CONTROLGEAR AND COMMUNICATIONS PANEL
- ⑥ ITC POWER TRANSFORMER
UP TO 2330 KVA / 36 KV
DOUBLE SECONDARY
MAX DIMENSIONS 2200x1200x2000
(LENGTH x WIDTH x HIGH)
- ⑦ PROTECTIVE METAL GRID IP21
DIMENSION WAY 3470 x 2452
- ⑧ AIR EXHAUST GRILLE
- ⑨ DOUBLE STANDARD DOOR
DIMENSIONS WAY 2330x2570

0	12/08/2016	I.B.S.	E.T.	J.A.M.	M.L.C.	Only for Information
REV.	DATE	Drawn	Prep.	Checked	Approved	REASON. STATUS OF REVISION
Author:			Class: GENERAL			PFV DASHTADEM 1 – 12.5MWp
			Type: PROTOTYPE			
			File: PEF2827-043-Dashtadem 1-ITC BUILD-R00-ET-160812			
SCALE:			Nº: PEF2827-043-Dashtadem 1-ITC BUILD			
2016/8			Client:			INVERTER TRANSFORMER CENTER BUILDING
FIRST ISSUE: 12/08/2016						Rev: 0
Drawn.	Prep.	Check.				Approv.
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INVERTER TRANSFORMER CENTER – 1,2MW

NOTE:
Dimensions in milimeters



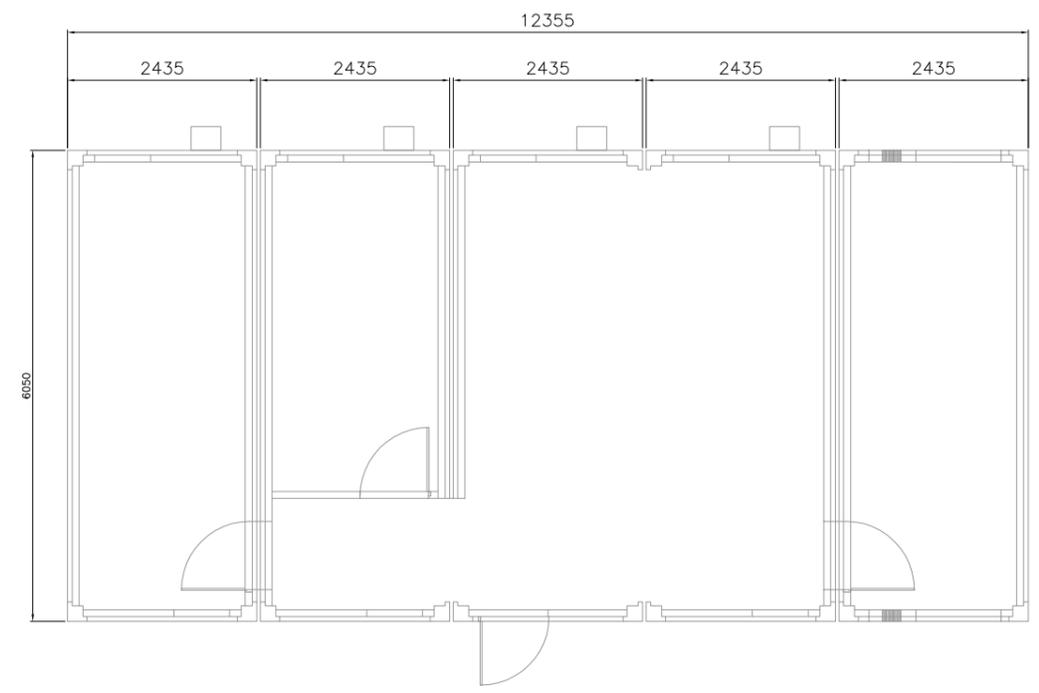
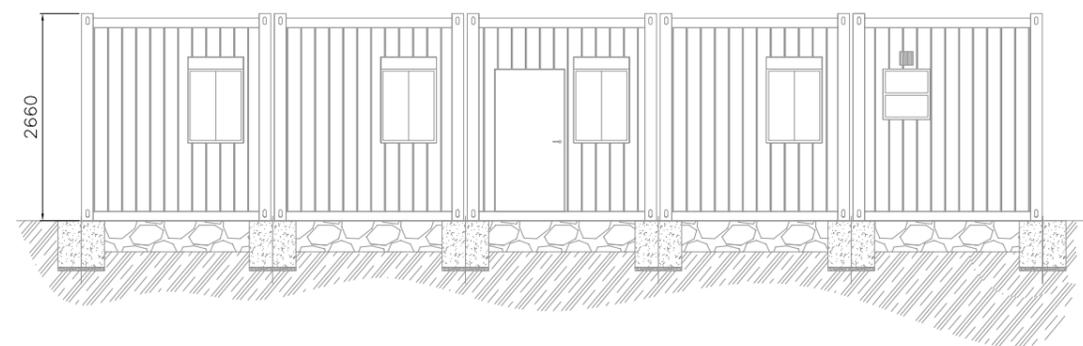
- ① INVERTER
- ② PROTECTIVE SCREEN
- ③ HV SWITCHGEAR UPTO 36 KV
- ④ AUXILIAR TRANSFORMER UPTO 50 KVA
- ⑤ CONTROLGEAR AND COMMUNICATIONS PANEL
- ⑥ ITC POWER TRANSFORMER
UP TO 1200 KVA / 36 KV
SINGLE SECONDARY
MAX DIMENSIONS 2200x1200x2000
(LENGTH x WIDTH x HIGH)
- ⑦ PROTECTIVE METAL GRID IP21
DIMENSION WAY 3470 x 2452
- ⑧ AIR EXHAUST GRILLE
- ⑨ DOUBLE STANDARD DOOR
DIMENSIONS WAY 2330x2570

0	12/08/2016	I.B.S.	E.T.	J.A.M.	M.L.C.	Only for Information
REV.	DATE	Drawn	Prep.	Checked	Approved	REASON. STATUS OF REVISION
Author:			Class: GENERAL			PFV DASHTADEM 1 – 12.5MWp
			Type: PROTOTYPE			
			File: PEF2827-043-Dashtadem 1-ITC BUILD-R00-ET-160812			
SCALE:			Nº: PEF2827-043-Dashtadem 1-ITC BUILD			
2016/8			Client:			INVERTER TRANSFORMER CENTER BUILDING
FIRST ISSUE: 12/08/2016						Rev: 0
Drawn.	Prep.	Check.				Approv.
I.B.S.	E.T.	J.A.M.	M.L.C.			

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NOTE:
Dimensions in milimeters

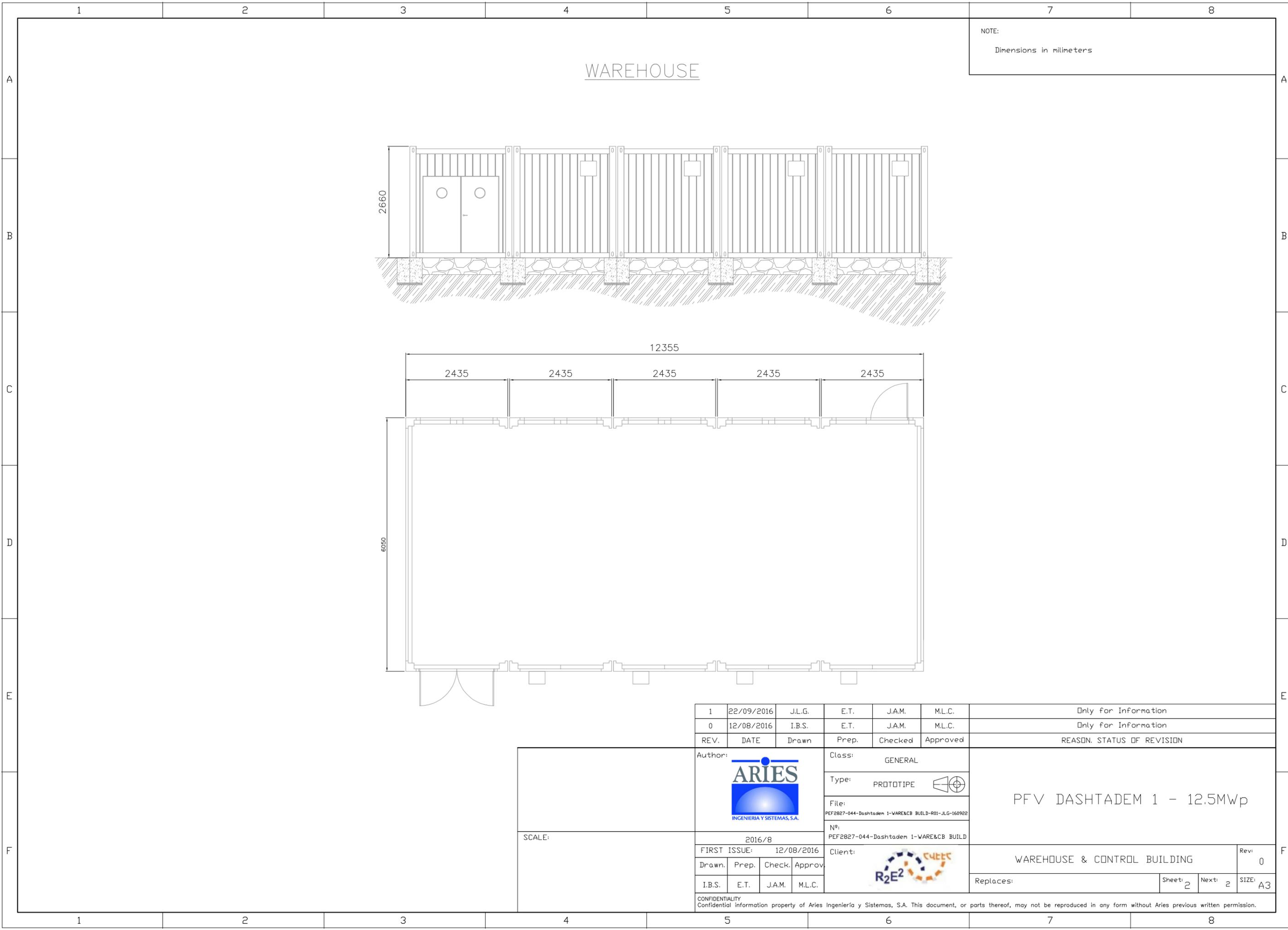
CONTROL CENTER



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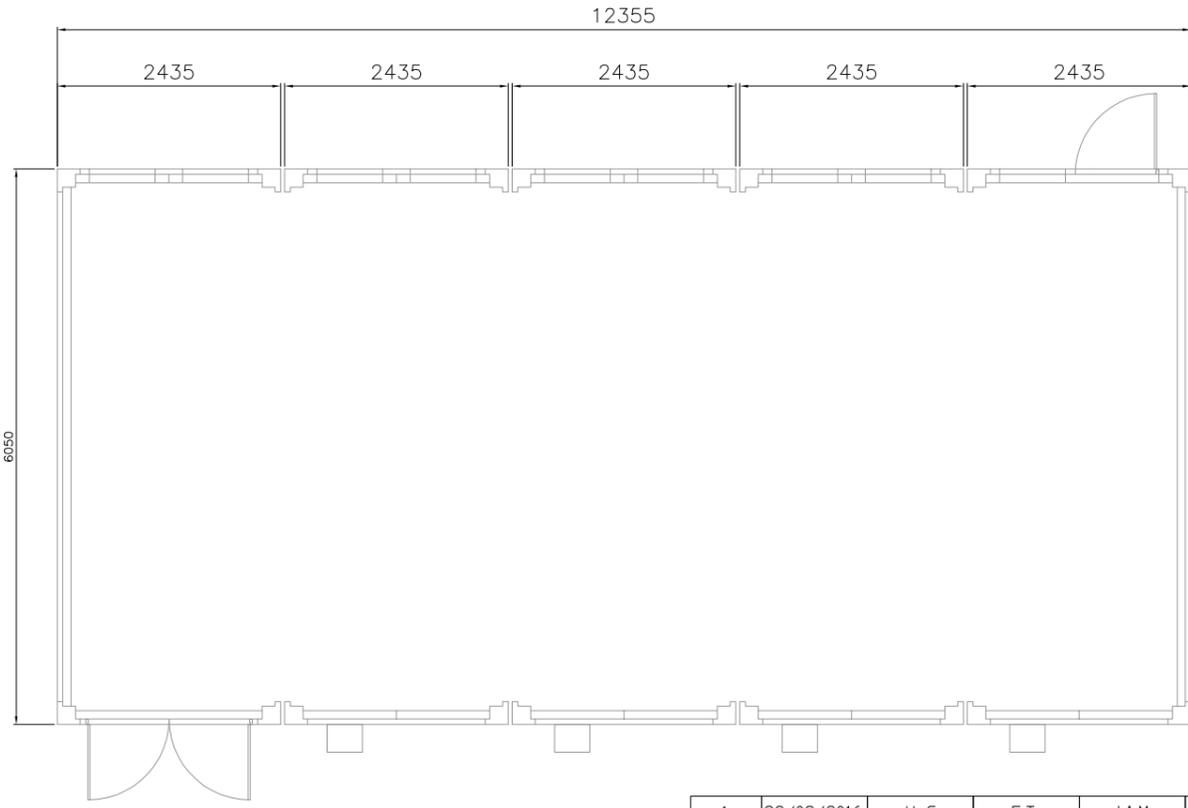
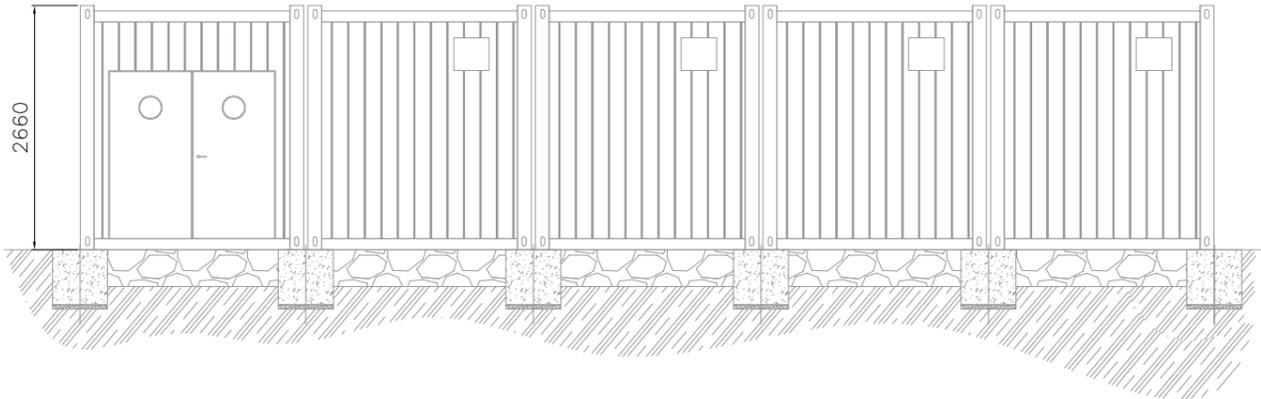
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SCALE: 2016/8		File: PEF2827-044-Dashtadem 1-WARE&CB BUILD-R01-JLG-160922			
FIRST ISSUE: 12/08/2016		Nº: PEF2827-044-Dashtadem 1-WARE&CB BUILD			
Drawn:	Prep.	Check.	Approv.	Client:	Rev: 1
I.B.S.	E.T.	J.A.M.	M.L.C.		Sheet: 1 Next: 2 SIZE: A3

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NOTE:
Dimensions in milimeters

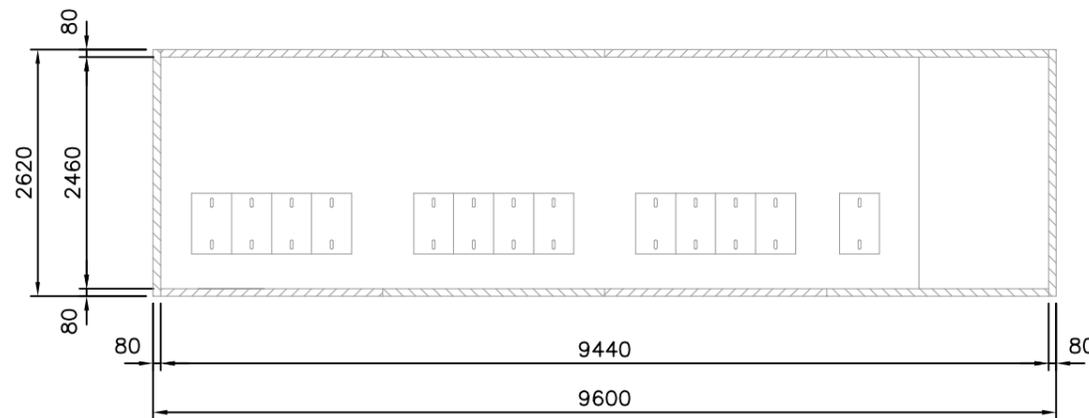
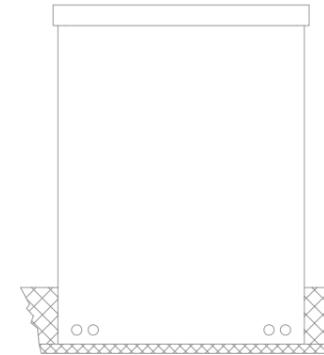
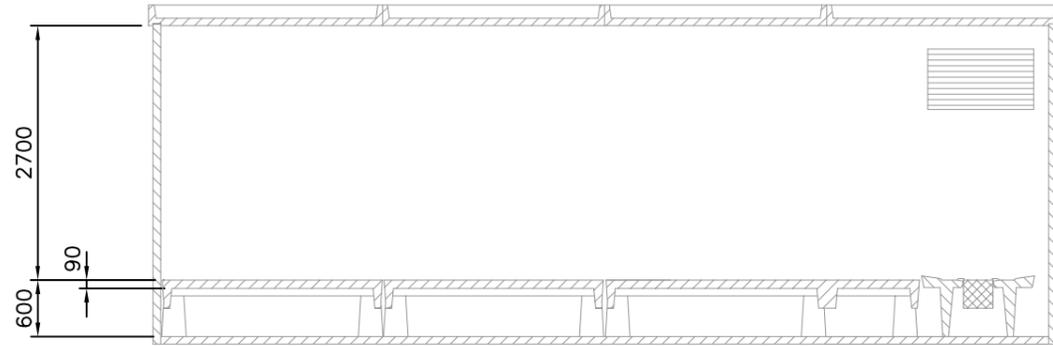
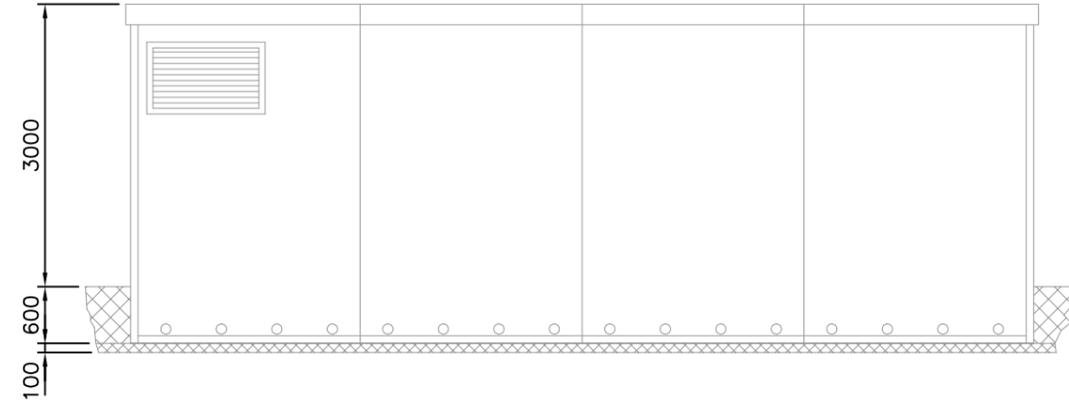
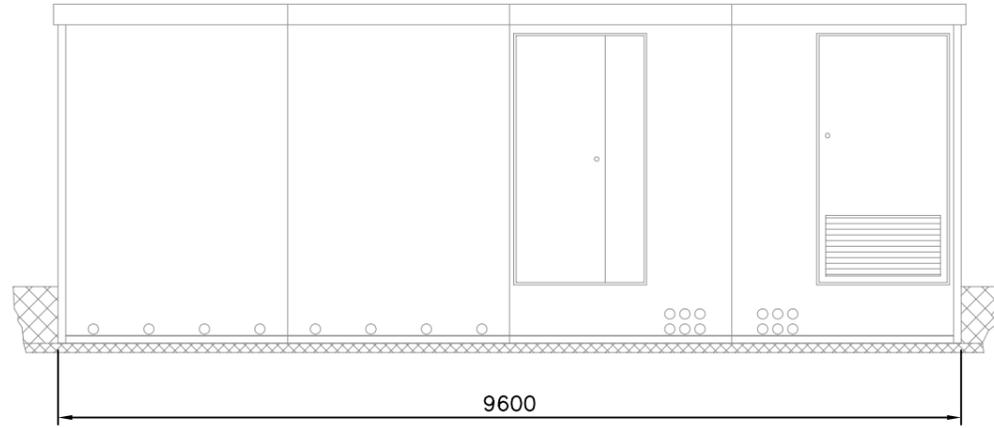
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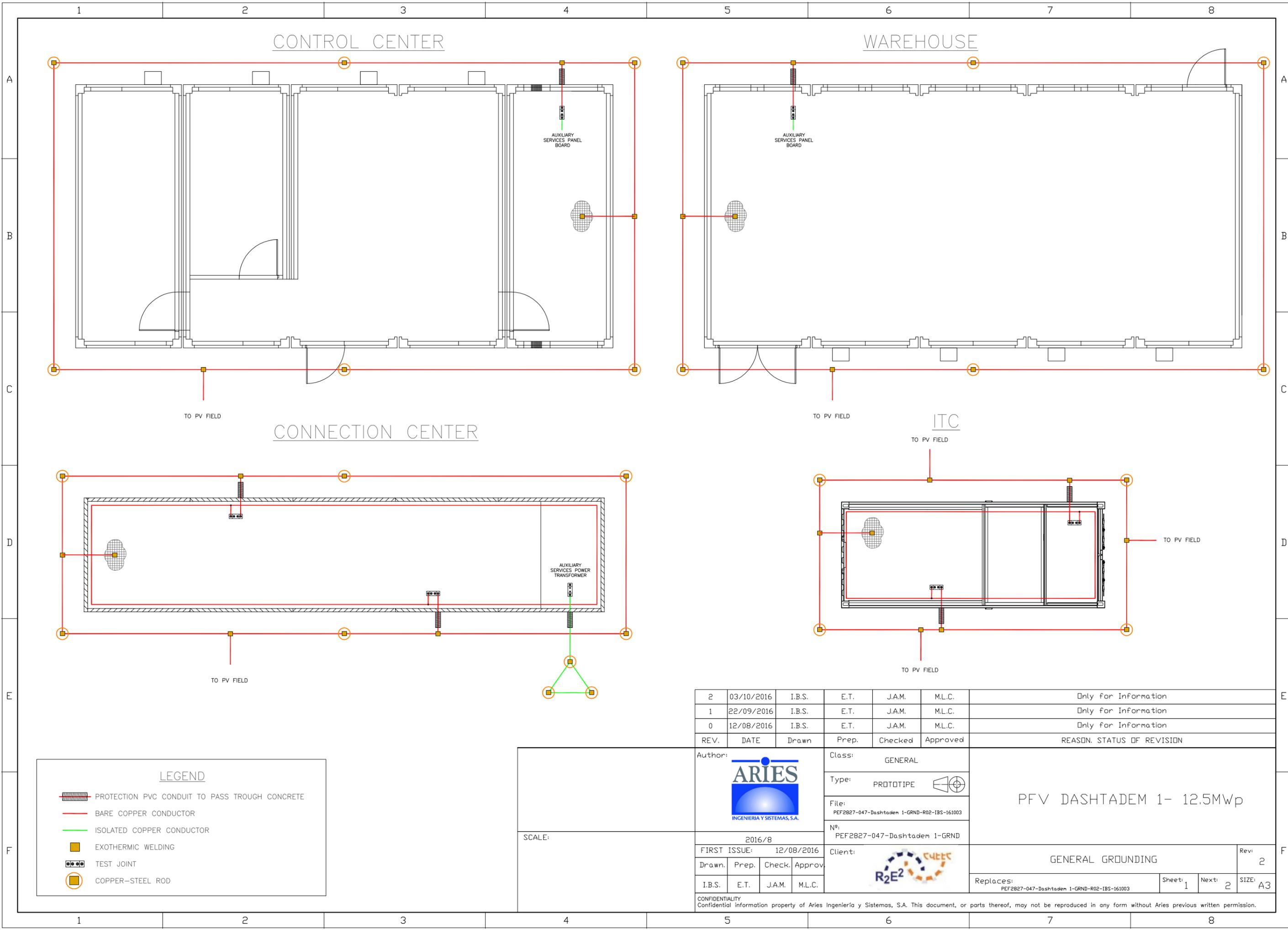
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0	12/08/2016	I.B.S.	E.T.	J.A.M.	M.L.C.	Only for Information
REV.	DATE	Drawn	Prep.	Checked	Approved	REASON. STATUS OF REVISION
Author: 						Class: GENERAL Type: PROTOTYPE  File: PEF2827-044-Dashtadem 1-WARE&CB BUILD-R01-JLG-160922 Nº: PEF2827-044-Dashtadem 1-WARE&CB BUILD
SCALE: 2016/8						
FIRST ISSUE: 12/08/2016						
Drawn: I.B.S. Prep: E.T. Check: J.A.M. Approv: M.L.C.						
Client: 						PFV DASHTADEM 1 - 12.5MWp
CONFIDENTIALITY Confidential information property of Aries Ingeniería y Sistemas, S.A. This document, or parts thereof, may not be reproduced in any form without Aries previous written permission.						WAREHOUSE & CONTROL BUILDING Replaces: Sheet: 2 Next: 2 SIZE: A3

CONNECTION CENTER

NOTE:
Dimensions in milimeters



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REV.	DATE	Drawn	Prep.	Checked	Approved	REASON. STATUS OF REVISION		
Author:		Class: GENERAL		PFV DASHTADEM 1 - 12.5MWp				
		Type: PROTOTYPE						
SCALE: 2016/8		File: PEF2827-046-Dashtadem 1-CC BUILD-R00-IBS-160812						
FIRST ISSUE: 12/08/2016		Nº: PEF2827-046-Dashtadem 1-CC BUILD						
Drawn:	Prep.	Check.	Approv.	Client:		CONNECTION CENTER BUILDING		Rev: 0
I.B.S.	E.T.	J.A.M.	M.L.C.			Replaces:		Sheet: 1
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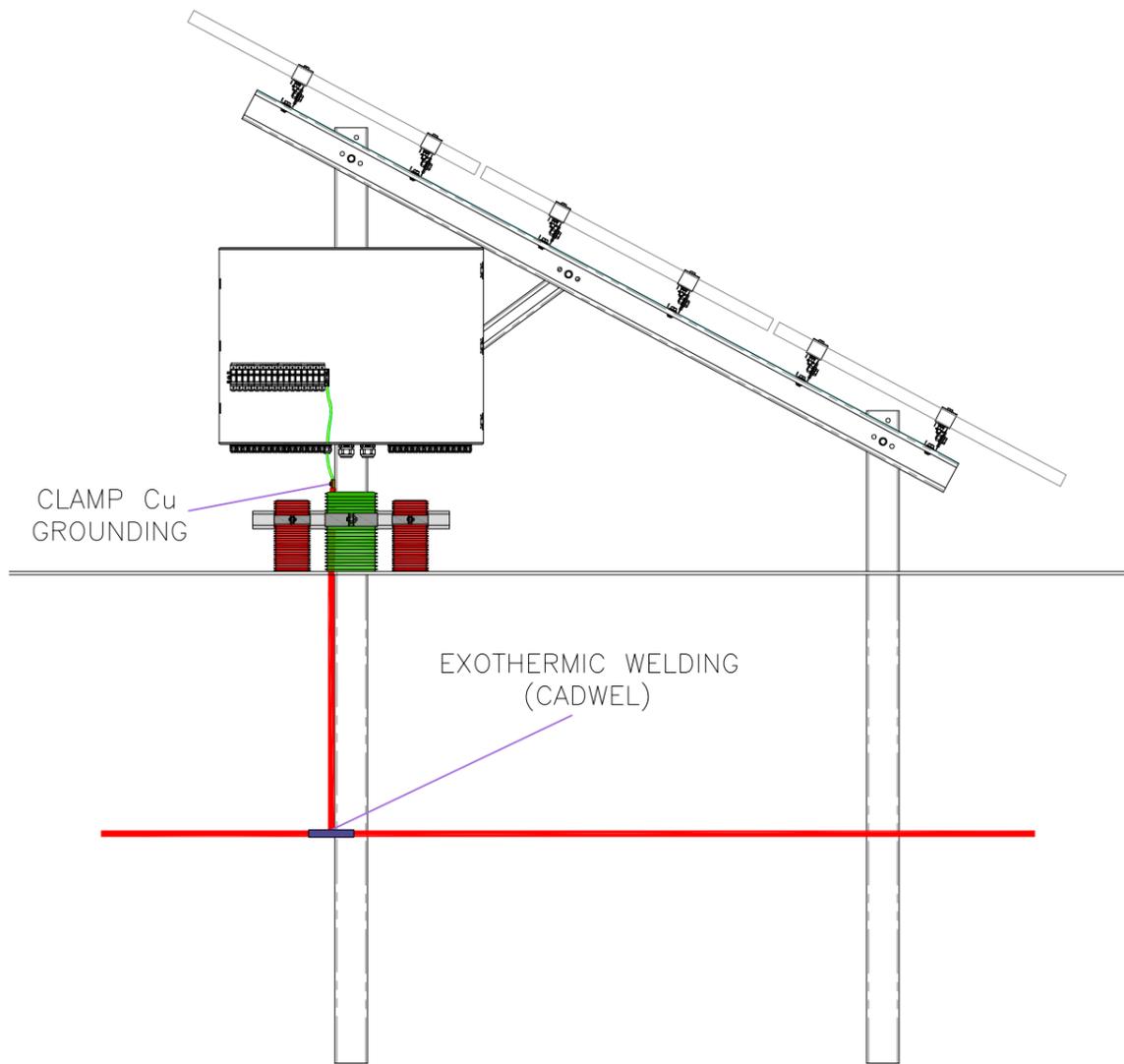
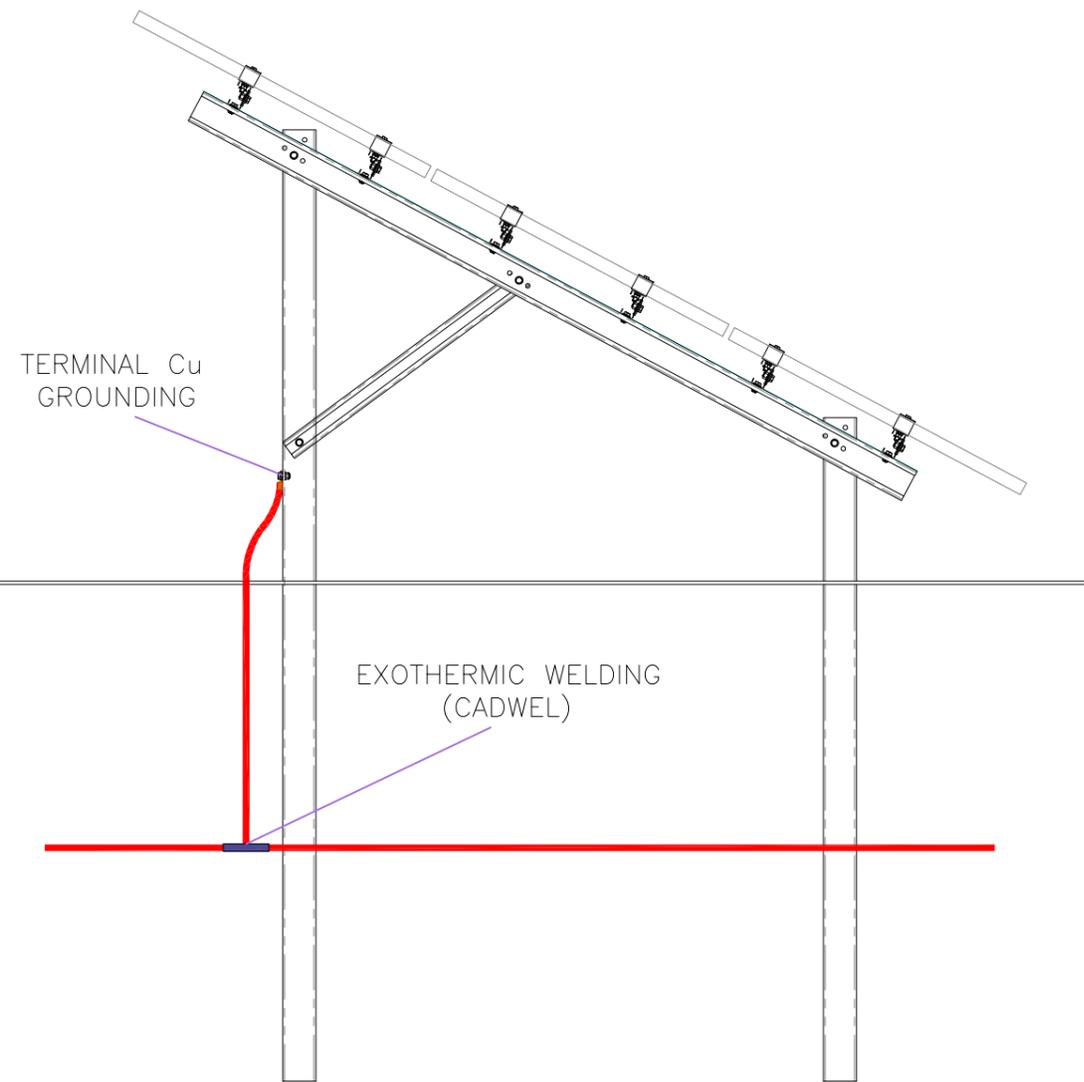


LEGEND

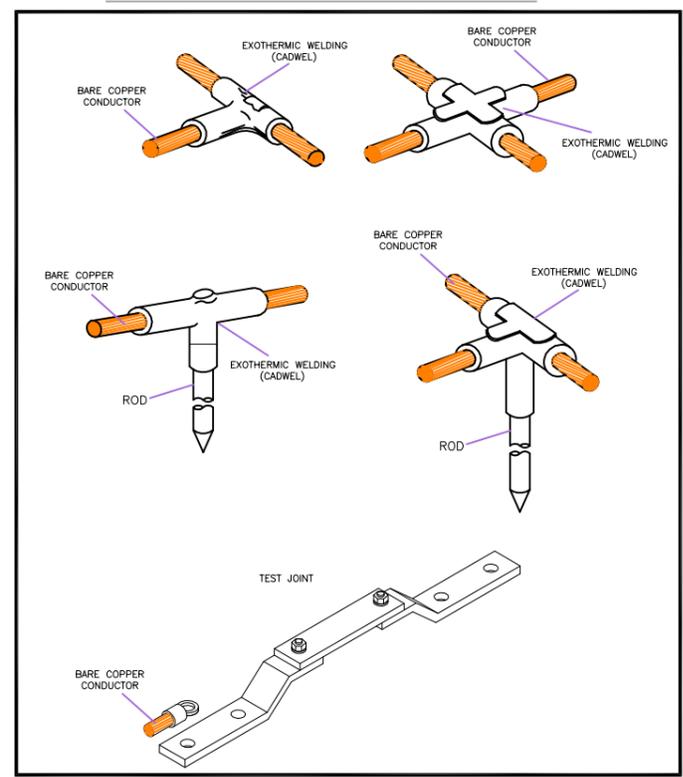
	PROTECTION PVC CONDUIT TO PASS TROUGH CONCRETE
	BARE COPPER CONDUCTOR
	ISOLATED COPPER CONDUCTOR
	EXOTHERMIC WELDING
	TEST JOINT
	COPPER-STEEL ROD

2	03/10/2016	I.B.S.	E.T.	J.A.M.	M.L.C.	Only for Information
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0	12/08/2016	I.B.S.	E.T.	J.A.M.	M.L.C.	Only for Information
REV.	DATE	Drawn	Prep.	Checked	Approved	REASON. STATUS OF REVISION

SCALE: 	Author: INGENIERIA Y SISTEMAS, S.A. 2016/8	Class: GENERAL Type: PROTOTYPE File: PEF2827-047-Dashtadem 1-GRND-R02-IBS-161003 N°: PEF2827-047-Dashtadem 1-GRND Client:	<h2 style="margin: 0;">PFV DASHTADEM 1- 12.5MWp</h2>																			
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FIRST ISSUE:	12/08/2016																					
Drawn.	Prep.	Check.	Approv.																			
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GENERAL GROUNDING		Rev: 2																				
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GROUNDING DETAILS



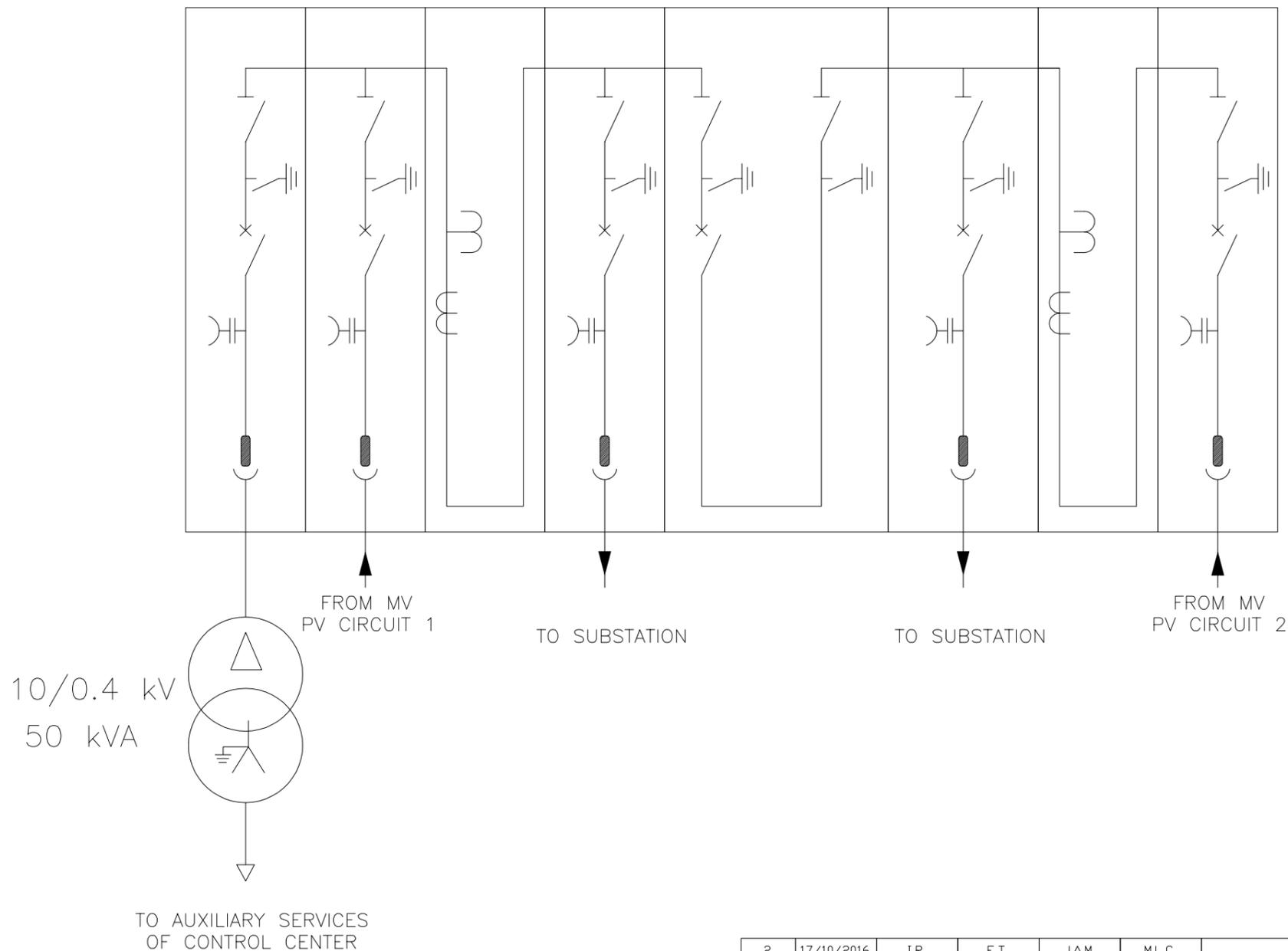
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2	03/10/2016	I.B.S.	E.T.	J.A.M.	M.L.C.	Only for Information
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SCALE:	Author:	Class: GENERAL			PFV DASHTADEM 1- 12.5MWp									
		Type: PROTOTYPE												
File:		PEF2827-047-Dashtadem 1-GRND-R02-IBS-161003												
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Drawn.	Prep.	Check.	Approv.											
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CONNECTION CENTER SWITCHGEAR

24kV.630A



LEGEND			
	Ground Connection		Delta
	Medium Voltage Current Trasformer		Wye
	Medium Voltage Switch		Voltage Detector
	Medium Voltage Circuit breaker		Medium Voltage Transformer
	Power Transformer		Medium Voltage Current Transformer

NOTE: Due to the PV plant location, the design of electrical equipment shall take into account the altitude of the site above sea level.

REV.	DATE	Drawn	Prep.	Checked	Approved	REASON. STATUS OF REVISION
2	17/10/2016	I.R.	E.T.	J.A.M.	M.L.C.	Only for Information
1	04/10/2016	I.R.	E.T.	J.A.M.	M.L.C.	Only for Information
0	12/08/2016	I.R.	E.T.	J.A.M.	M.L.C.	Only for Information

Author:		Class:	GENERAL
		Type:	PROTOTYPE
		File:	PEF2827-045-Dashtadem 1-MV CONNECT-R02-IR-161017.dwg
		Nº:	PEF2827-045-Dashtadem 1-MV CONNECT
SCALE:	2016/8	Client:	
FIRST ISSUE:	12/08/2016	INTERCONNECTION SINGLE LINE DIAGRAM	
Drawn:	Prep.	Check.	Approv.
I.R.	E.T.	J.A.M.	M.L.C.
Replaces:			PEF2827-045-Dashtadem 1-MV CONNECT-R01-IR-161004.dwg
Sheet:			1
Next:			-
SIZE:			A3
Rev:			2

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NOTE:

LEGEND	
	10KV TRANSMISSION LINE
	PERIMETER FENCE
	ACCESS AND INTERNAL ROADS
	CONNECTION CENTER
	CONTROL BUILDING
	WAREHOUSE
	PARKING AREA

REV.	DATE	Drawn	Prep.	Checked	Approved	REASON, STATUS OF REVISION
1	22/09/2016	J.L.G.	E.T.	J.A.M.	M.L.C.	Only for Information
0	02/09/2016	J.L.G.	E.T.	J.A.M.	M.L.C.	Only for Information

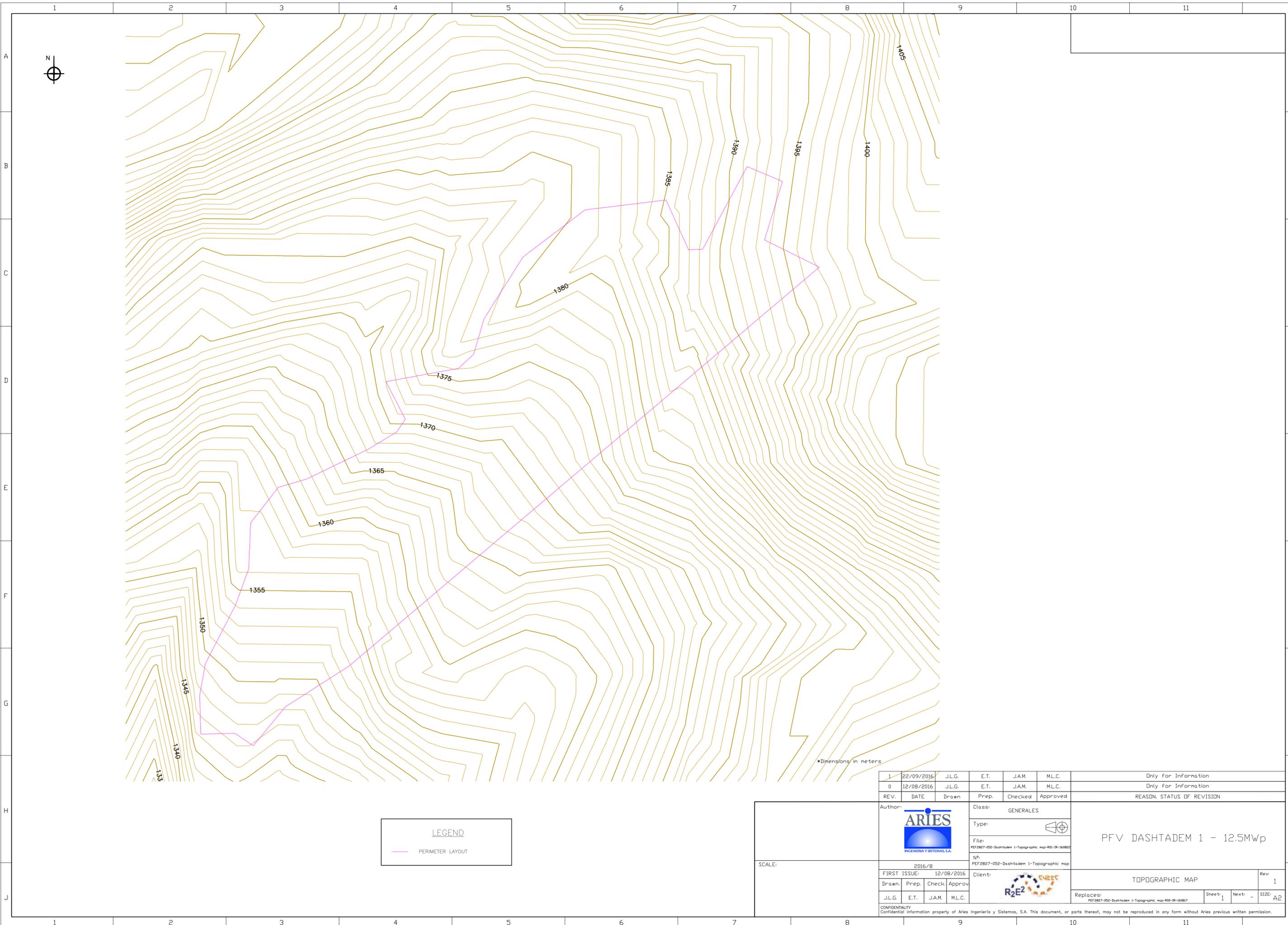
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Client:			

FIRST ISSUE:	02/09/2016	Rev:	1
Drawn:	J.L.G.	Prep.:	E.T.
Check:	J.A.M.	Approv.:	M.L.C.
Replaces:			Sheet: 1 Next: - SIZE: A2

PFV DASHTADEM 1 - 12.5MWp

OVERHEAD TRANSMISSION LINE

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*Dimensions in meters

LEGEND	
	PERIMETER LAYOUT

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REV.	DATE	Drawn	Prep.	Checked	Approved	REASON, STATUS OF REVISION		
Author:		Class:				 PFV DASHTADEM 1 - 12.5MWp		
 INGENIERIA Y SISTEMAS, S.A.		Type:						
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2016/8		Client:				TOPOGRAPHIC MAP Rev: 1		
FIRST ISSUE: 12/08/2016		Drawn: J.L.G. E.T. J.A.M. M.L.C.		Replaces: PEF2827-052-Dashtadem 1-Topographic map-R00-IR-16082		Sheet: 1	Next: -	SIZE: A2

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