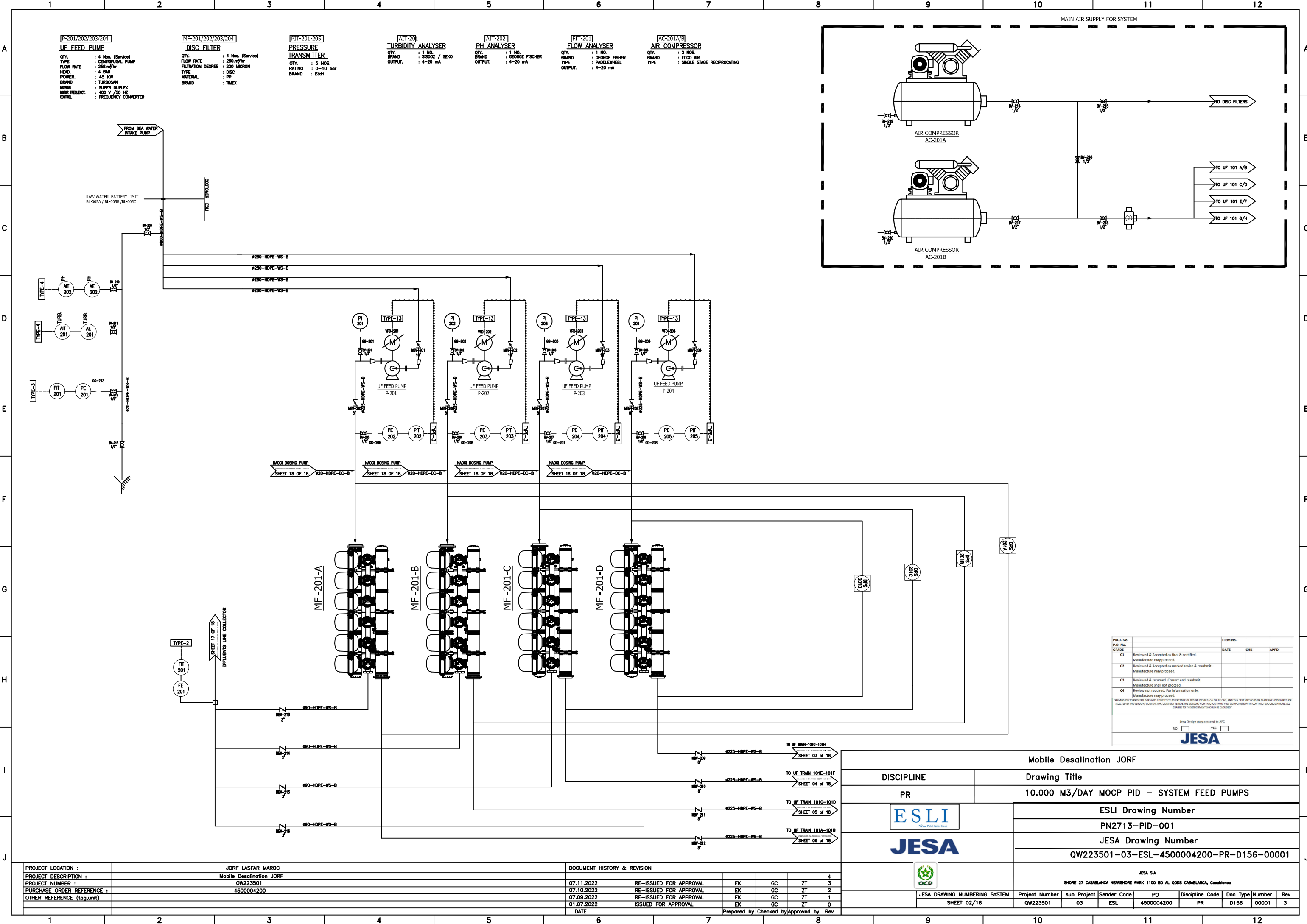


1		2		3		4		5		6		7		8		9		10		11		12	
VALVE SYMBOLS		VALVE SYMBOLS		TEXT LEGEND / COMMON ABBREVIATION		MISCELLANEOUS		DETAIL FOR LEVEL INDICATOR TRANSMITTER(TYP-1)		DETAIL FOR PRESSURE SWITCH LOW(TYP-5)		DETAIL FOR LOW LOW LEVEL SWITCH (TYP-7)											
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PROJ. No.	ITEM No.
P.O. No.	
GRADE	
C1	Reviewed & Accepted as final & certified. Manufacture may proceed.
C2	Reviewed & Accepted as marked revise & resubmit. Manufacture may proceed.
C3	Reviewed & returned. Correct and resubmit. Manufacture shall not proceed.
C4	Review not required. For information only. Manufacture may proceed.
JESADesign may proceed to AEC	
NO <input type="checkbox"/> YES <input type="checkbox"/>	
JESA	

Mobile Desalination JORF	
DISCIPLINE	Drawing Title
PR	10.000 M3/DAY MOCP PID – SYSTEM FEED PUMPS
ESLI Drawing Number	
PN2713-PID-001	
JESA Drawing Number	
QW223501-03-ESL-4500004200-PR-D156-00001	
JESA S.A.	
SHORE 27 CASABLANCA NEARSHORE PARK 1100 BD AL QODS CASABLANCA, Casablanca	
JESA DRAWING NUMBERING SYSTEM	Project Number sub Project Sender Code PO Discipline Code Doc Type Number Rev
SHEET 02/18	QW223501 03 ESL 4500004200 PR D156 00001 3

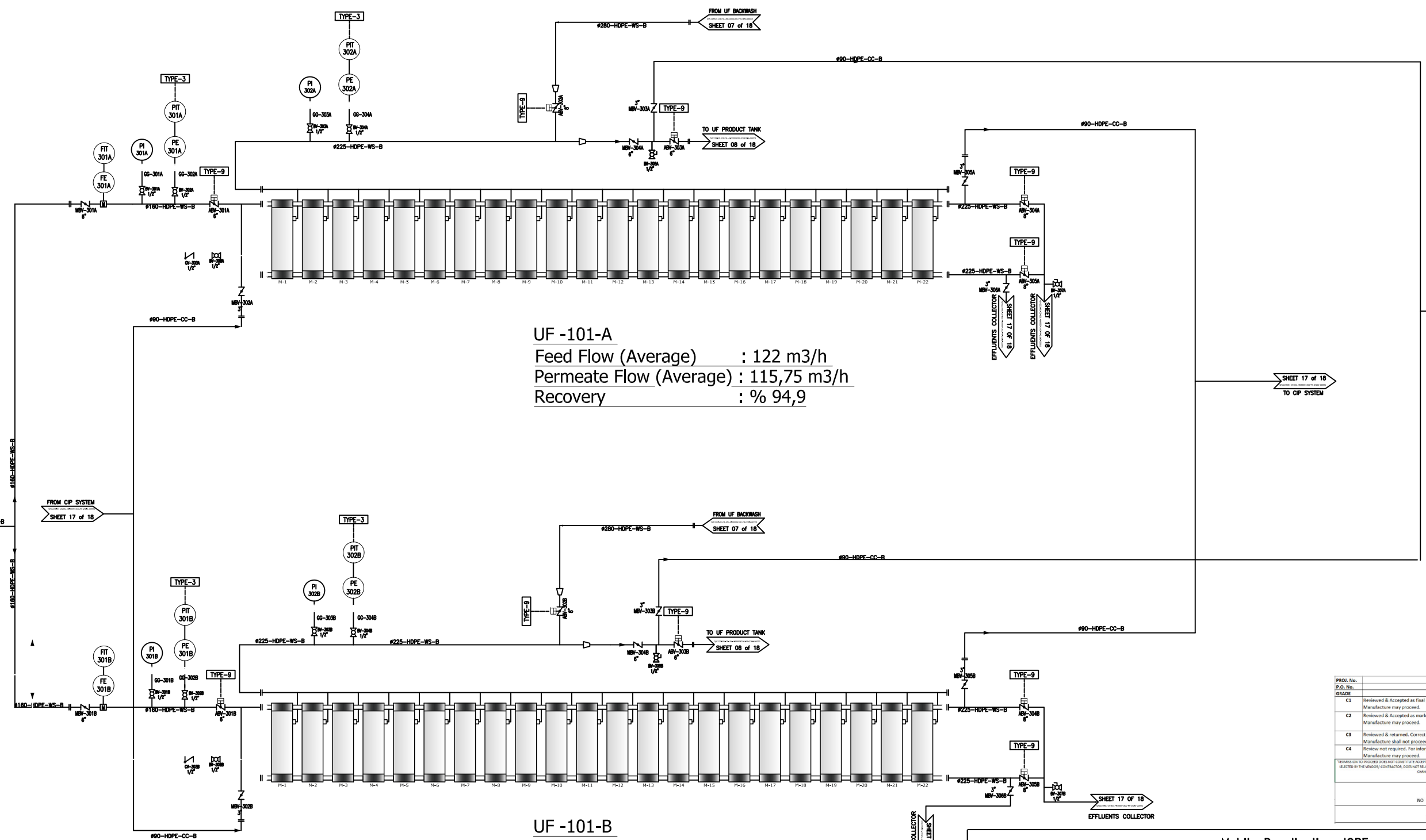
PROJECT LOCATION :	JORF LASFAR MAROC
PROJECT DESCRIPTION :	Mobile Desalination JORF
PROJECT NUMBER :	QW223501
PURCHASE ORDER REFERENCE :	4500004200
OTHER REFERENCE (tag/unit)	

DOCUMENT HISTORY & REVISION					
07.11.2022	RE-ISSUED FOR APPROVAL	EK	GC	ZT	4
07.10.2022	RE-ISSUED FOR APPROVAL	EK	GC	ZT	2
07.09.2022	RE-ISSUED FOR APPROVAL	EK	GC	ZT	1
01.07.2022	ISSUED FOR APPROVAL	EK	GC	ZT	0
DATE	Prepared by	Checked by	Approved by	Rev	

PIT-301A/302A/301B/302B  
PRESSURE  
TRANSMITTER  
QTY. : 4 NOS.(2/EACH TRAIN)  
RATING : 0-10 bar  
BRAND : E&H

FIT-301A/301B  
FLOW METER  
QTY. : 2 NOS.(1/EACH TRAIN)  
BRAND : E&H  
TYPE : Electromagnetic  
OUTPUT : 4-20 mA

UF-101A/101B  
UF MODULES  
NO. OF MODULES : 44 NOS (22/EACH TRAIN)  
BRAND : PENTAIR  
MODEL : XF75



UF -101-A  
Feed Flow (Average) : 122 m3/h  
Permeate Flow (Average) : 115,75 m3/h  
Recovery : % 94,9

UF -101-B  
Feed Flow (Average) : 122 m3/h  
Permeate Flow (Average) : 115,75 m3/h  
Recovery : % 94,9

PROJ. No.	ITEM No.
P.O. No.	
GRADE	
C1	Reviewed & Accepted as final & certified. Manufacture may proceed.
C2	Reviewed & Accepted as marked revise & resubmit. Manufacture may proceed.
C3	Reviewed & returned. Correct and resubmit. Manufacture shall not proceed.
C4	Review not required. For information only. Manufacture may proceed.
JESADesign may proceed to AEC	
NO	YES

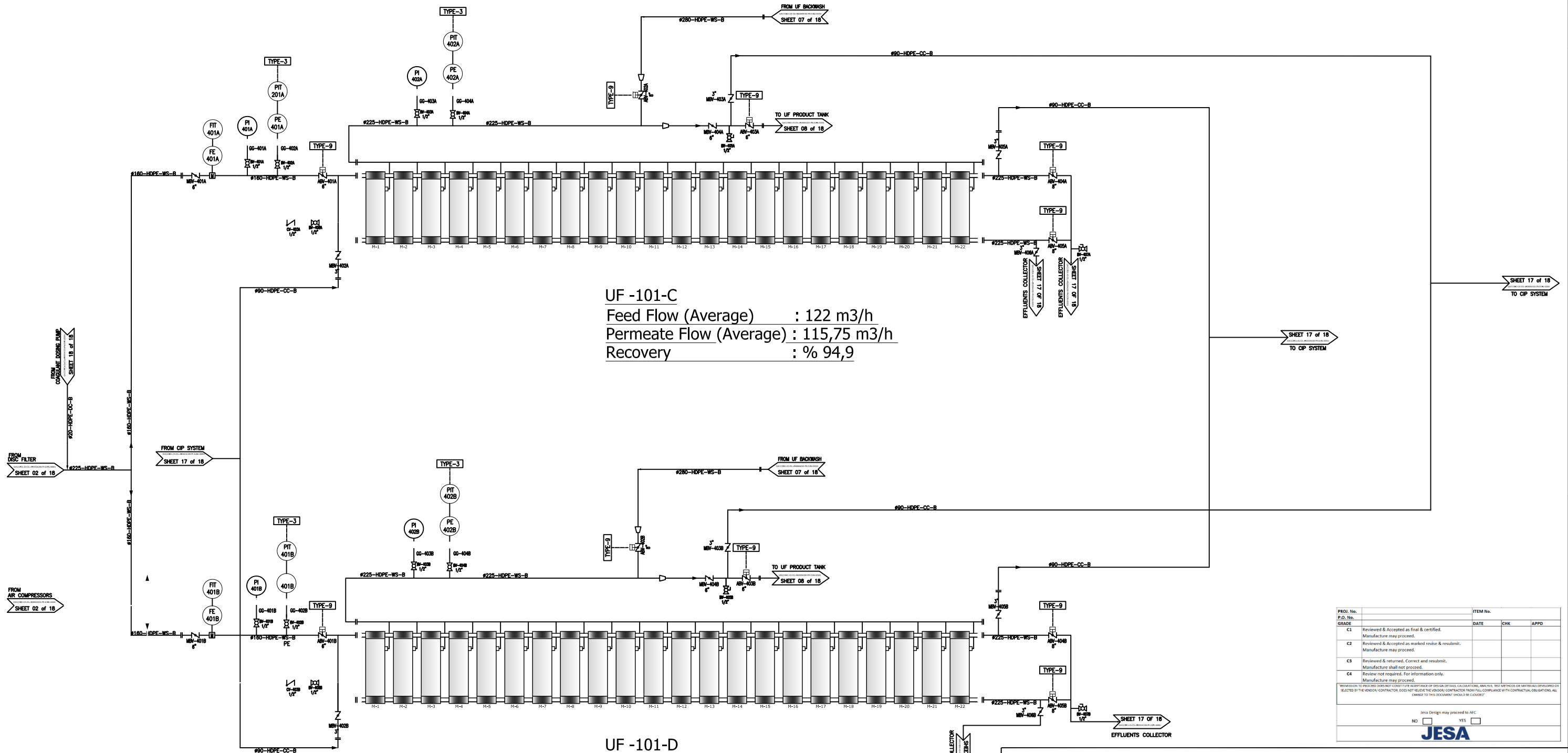
Mobile Desalination JORF	
DISCIPLINE	Drawing Title
PR	10.000 M3/DAY MOCF PID – SYSTEM UF MODULES
ESLI JESA	ESLI Drawing Number PN2713-PID-001
	JESA Drawing Number QW223501-03-ESL-4500004200-PR-D156-00001
JESA S.A. SHORE 27 CASABLANCA NEARSHORE PARK 1100 BD AL QODS CASABLANCA, Casablanca	
JESA DRAWING NUMBERING SYSTEM SHEET 03/18	Project Number sub Project Sender Code PO Discipline Code Doc Type Number Rev QW223501 03 ESL 4500004200 PR D156 00001 3

PROJECT LOCATION :		JORF LASFAR MAROC		DOCUMENT HISTORY & REVISION	
PROJECT DESCRIPTION :		Mobile Desalination JORF		07.11.2022	
PROJECT NUMBER :		QW223501		RE-ISSUED FOR APPROVAL	
PURCHASE ORDER REFERENCE :		4500004200		07.10.2022	
OTHER REFERENCE (tag/unit)				RE-ISSUED FOR APPROVAL	
				07.09.2022	
				ISSUED FOR APPROVAL	
				01.07.2022	
				DATE	

PIT-401A/402A/401B/402B  
PRESSURE  
TRANSMITTER  
QTY. : 4 NOS.(2/EACH TRAIN)  
RATING : 0-10 bar  
MODEL : PMC11  
BRAND : ENDRESS HAUSER

FIT-401A/401B  
FLOW METER  
QTY. : 2 NOS.(1/EACH TRAIN)  
MODEL : Promag W 400, DN150  
BRAND : ENDRESS HAUSER  
TYPE : Electromagnetic  
OUTPUT : 4-20 mA

UF-101C/101D  
UF MODULES  
NO. OF MODULES : 44 NOS (22/EACH TRAIN)  
BRAND : PENTAIR  
MODEL : XP75



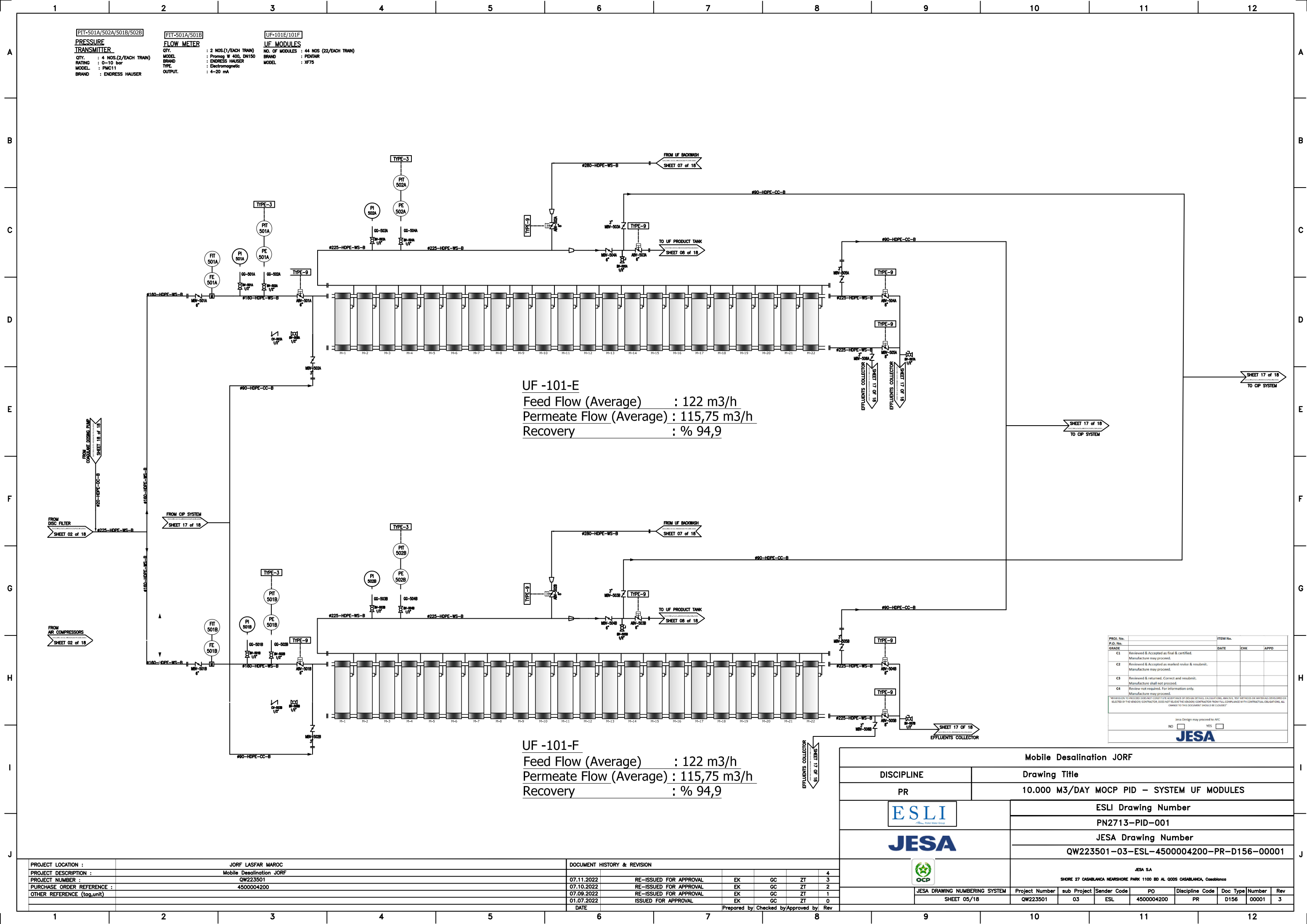
UF -101-C  
Feed Flow (Average) : 122 m3/h  
Permeate Flow (Average) : 115,75 m3/h  
Recovery : % 94,9

UF -101-D  
Feed Flow (Average) : 122 m3/h  
Permeate Flow (Average) : 115,75 m3/h  
Recovery : % 94,9

PROJ. No.	ITEM No.
P.O. No.	DATE
GRADE	CHE
C1	Reviewed & Accepted as final & certified. Manufacture may proceed.
C2	Reviewed & Accepted as marked revise & resubmit. Manufacture may proceed.
C3	Reviewed & returned. Correct and resubmit. Manufacture shall not proceed.
C4	Review not required. For information only. Manufacture may proceed.
JESA Design may proceed to AEC	
NO	YES

PROJECT LOCATION :	JORF LASFAR MAROC	DOCUMENT HISTORY & REVISION	4
PROJECT DESCRIPTION :	Mobile Desalination JORF	07.11.2022	RE-ISSUED FOR APPROVAL
PROJECT NUMBER :	QW223501	07.10.2022	RE-ISSUED FOR APPROVAL
PURCHASE ORDER REFERENCE :	4500004200	07.09.2022	RE-ISSUED FOR APPROVAL
OTHER REFERENCE (tag/unit)		01.07.2022	ISSUED FOR APPROVAL
DATE	Prepared by	Checked by	Approved by
Rev			

Mobile Desalination JORF	
DISCIPLINE	Drawing Title
PR	10.000 M3/DAY MOCF PID - SYSTEM UF MODULES
ESLI	ESLI Drawing Number
JESA	PN2713-PID-001
JESA	JESA Drawing Number
JESA	QW223501-03-ESL-4500004200-PR-D156-00001
JESA	JESA S.A.
JESA	SHORE 27 CASABLANCA NEARSHORE PARK 1100 BD AL QODS CASABLANCA, Casablanca
JESA	JESA DRAWING NUMBERING SYSTEM
JESA	Project Number
JESA	sub Project
JESA	Sender Code
JESA	PO
JESA	Discipline Code
JESA	Doc Type
JESA	Number
JESA	Rev

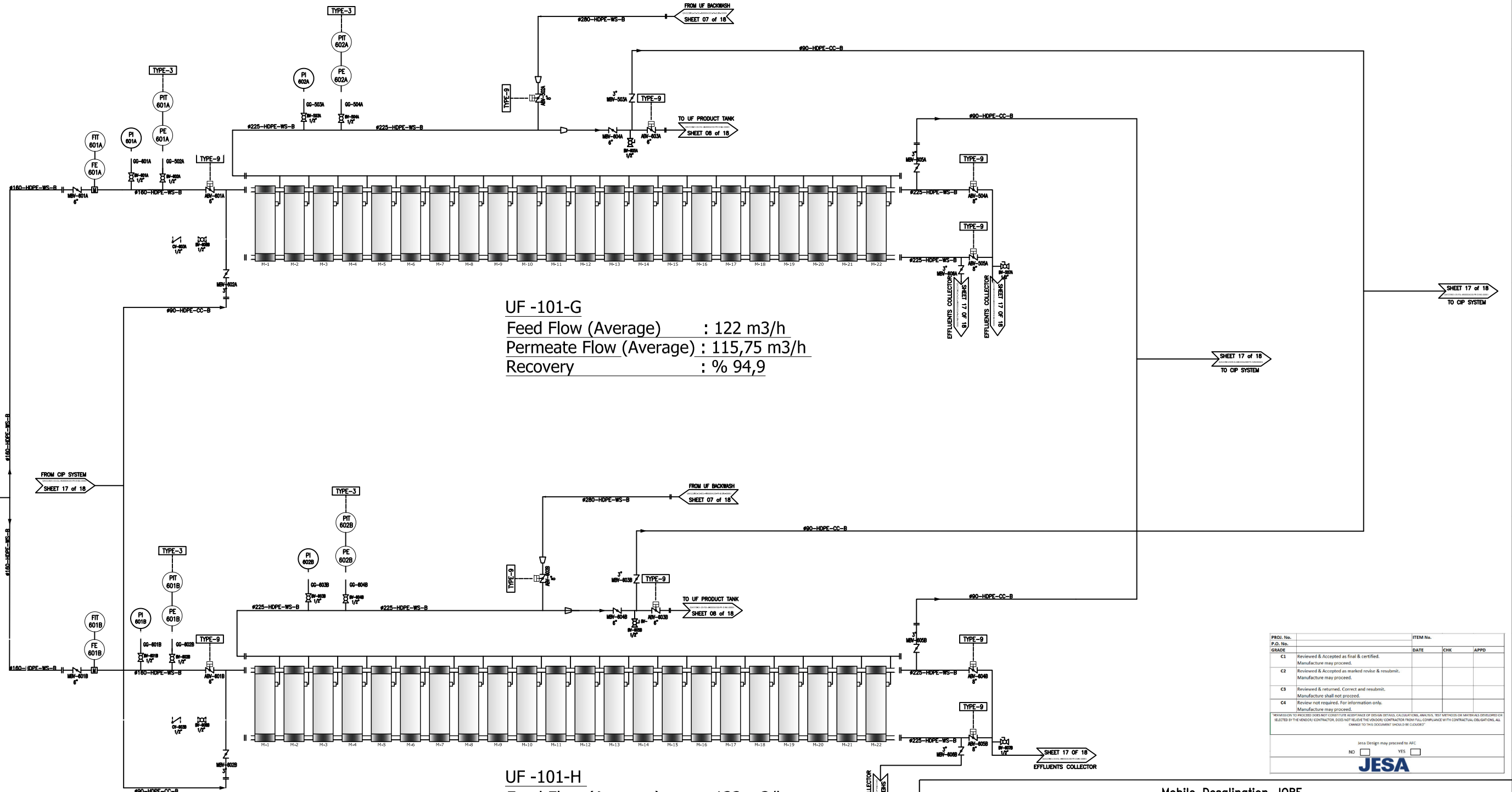




PIT-601A/502A/601B/502B  
**PRESSURE TRANSMITTER**  
QTY. : 4 NOS./EACH TRAIN  
RATING : 0-10 bar  
MODEL : PMC11  
BRAND : ENDRESS HAUSER

FIT-601A/601B  
**FLOW METER**  
QTY. : 2 NOS./EACH TRAIN  
MODEL : Promag W 400, DN150  
BRAND : ENDRESS HAUSER  
TYPE : Electromagnetic  
OUTPUT : 4-20 mA

UF-101G/101H  
**UF MODULES**  
NO. OF MODULES : 44 NOS (22/EACH TRAIN)  
BRAND : PENTAIR  
MODEL : XF75






UF -101-G  
Feed Flow (Average) : 122 m3/h  
Permeate Flow (Average) : 115,75 m3/h  
Recovery : % 94,9

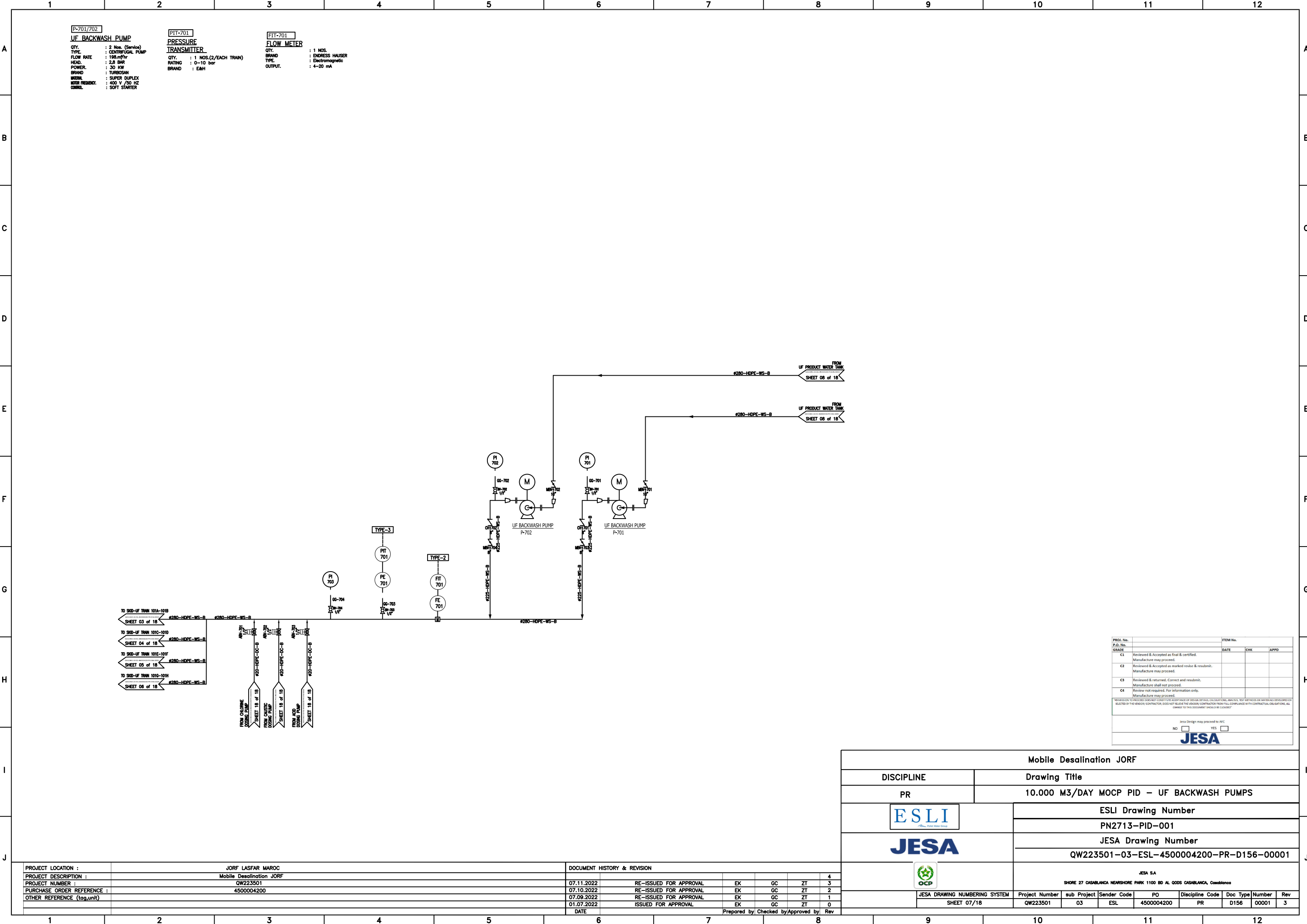
UF -101-H  
Feed Flow (Average) : 122 m3/h  
Permeate Flow (Average) : 115,75 m3/h  
Recovery : % 94,9

PROJ. No.	ITEM No.
P.O. No.	DATE
GRADE	CHE
C1	Reviewed & Accepted as final & certified. Manufacture may proceed.
C2	Reviewed & Accepted as marked revise & resubmit. Manufacture may proceed.
C3	Reviewed & returned. Correct and resubmit. Manufacture shall not proceed.
C4	Review not required. For information only. Manufacture may proceed.
JESADesign may proceed to AEC	
NO	YES

PROJECT LOCATION :	JORF LASFAR MAROC
PROJECT DESCRIPTION :	Mobile Desalination JORF
PROJECT NUMBER :	QW223501
PURCHASE ORDER REFERENCE :	4500004200
OTHER REFERENCE (tag/unit)	

DOCUMENT HISTORY & REVISION					
07.11.2022	RE-ISSUED FOR APPROVAL	EK	GC	ZT	4
07.10.2022	RE-ISSUED FOR APPROVAL	EK	GC	ZT	3
07.09.2022	RE-ISSUED FOR APPROVAL	EK	GC	ZT	2
01.07.2022	ISSUED FOR APPROVAL	EK	GC	ZT	1
DATE	Prepared by	Checked by	Approved by	Rev	

Mobile Desalination JORF									
DISCIPLINE		Drawing Title							
PR		10.000 M3/DAY MOCF PID – SYSTEM UF MODULES							
		ESLI Drawing Number							
		PN2713–PID–001							
		JESA Drawing Number							
		QW223501–03–ESL–4500004200–PR–D156–00001							
		JESA S.A							
		SHORE 27 CASABLANCA NEARSHORE PARK 1100 BD AL QODS CASABLANCA, Casablanca							
JESA DRAWING NUMBERING SYSTEM		Project Number	sub Project	Sender Code	PO	Discipline Code	Doc Type	Number	Rev






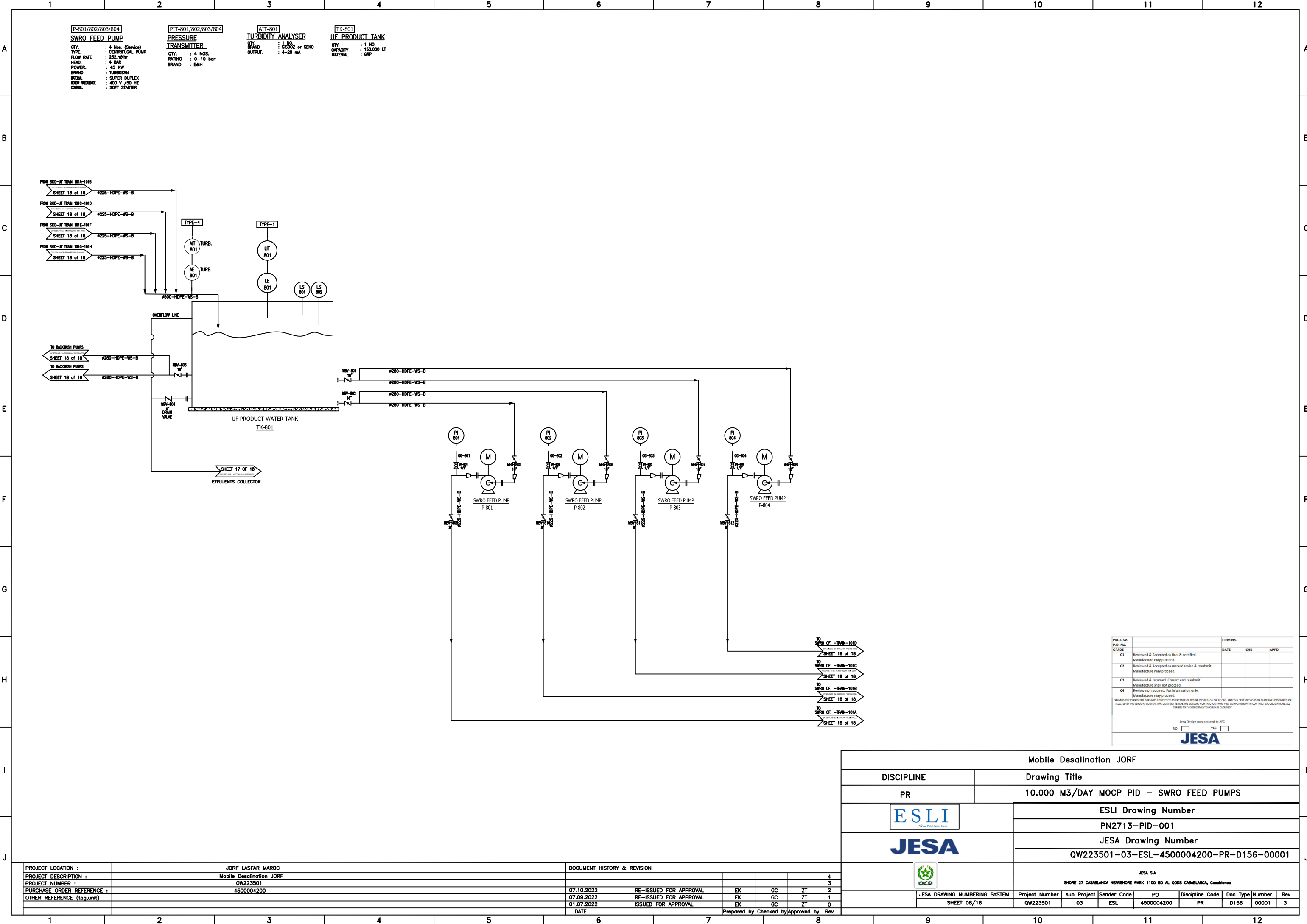
P-701/702	
UF BACKWASH PUMP	
QTY.	: 2 Nos. (Service)
TYPE	: CENTRIFUGAL PUMP
FLOW RATE	: 198 m <sup>3</sup> /hr
HEAD	: 2.8 BAR
POWER	: 30 KW
BRAND	: TURBOCAN
MATERIAL	: SUPER DUPLEX
MOTOR FREQUENCY	: 400 V /50 HZ
CONTROL	: SOFT STARTER

PTT-701	
PRESSURE TRANSMITTER	
QTY.	: 1 NOS.(2/EACH TRAIN)
RATING	: 0-10 bar
BRAND	: E&H

FIT-701	
FLOW METER	
QTY.	: 1 NOS.
BRAND	: ENDRESS HAUSER
TYPE	: Electromagnetic
OUTPUT	: 4-20 mA




PROJ. No.	ITEM No.
P.O. No.	
GRADE	
C1	Reviewed & Accepted as final & certified. Manufacture may proceed.
C2	Reviewed & Accepted as marked revise & resubmit. Manufacture may proceed.
C3	Reviewed & returned. Correct and resubmit. Manufacture shall not proceed.
C4	Review not required. For information only. Manufacture may proceed.
JESADesign may proceed to AEC	
NO	YES

Mobile Desalination JORF										
DISCIPLINE			Drawing Title							
PR			10.000 M3/DAY MOCP PID – UF BACKWASH PUMPS							
<div> </div>			ESLI Drawing Number							
			PN2713–PID–001							
			JESA Drawing Number							
			QW223501–03–ESL–4500004200–PR–D156–00001							
			JESA S.A SHORE 27 CASABLANCA NEARSHORE PARK 1100 BD AL QODS CASABLANCA, Casablanca							
JESA DRAWING NUMBERING SYSTEM		Project Number	sub Project	Sender Code	PO	Discipline Code	Doc Type	Number	Rev	
SHEET 07/18		QW223501	03	ESL	4500004200	PR	D156	00001	3	



P-801/802/803/804		PTT-801/802/803/804		ALT-801		TK-801	
SWRO FEED PUMP		PRESSURE TRANSMITTER		TURBIDITY ANALYSER		UF PRODUCT TANK	
QTY.	: 4 Nos. (Service)	QTY.	: 4 NOS.	QTY.	: 1 NO.	QTY.	: 1 NO.
TYPE	: CENTRIFUGAL PUMP	BRAND	: SISDOZ or SEKO	BRAND	: SISDOZ or SEKO	CAPACITY	: 150,000 LT
FLOW RATE	: 232 m³/hr	OUTPUT	: 4-20 mA			MATERIAL	: GRP
HEAD	: 4 BAR						
POWER	: 45 KW						
BRAND	: TURBOCAN						
MATERIAL	: SUPER DUPLEX						
MOTOR FREQUENCY	: 400 V / 50 HZ						
CONTROL	: SOFT STARTER						

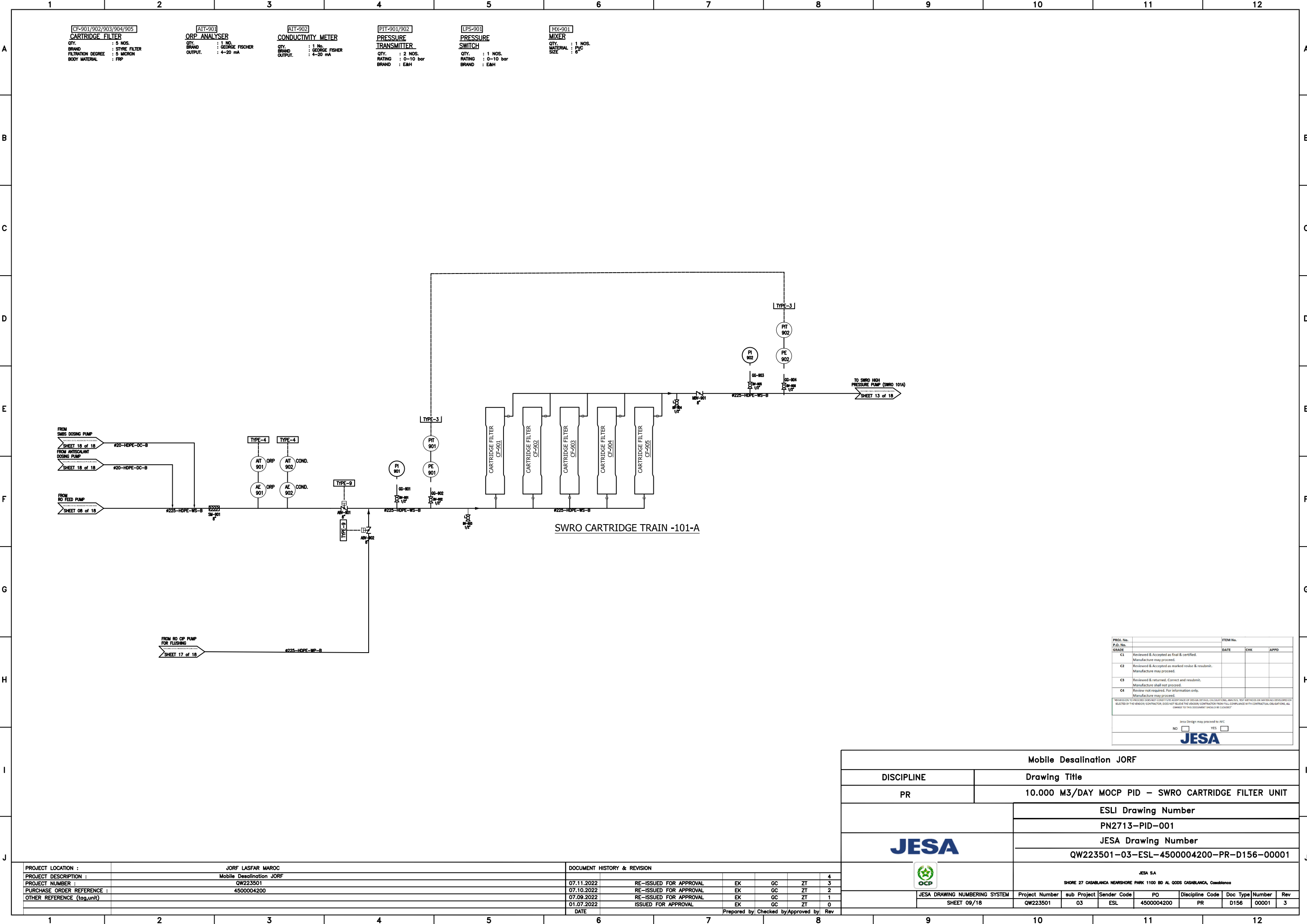
PROJ. No.		ITEM No.		
P.O. No.		DATE	CHK	APPD
GRADE				
C1	Reviewed & Accepted as final & certified. Manufacture may proceed.			
C2	Reviewed & Accepted as marked revise & resubmit. Manufacture may proceed.			
C3	Reviewed & returned. Correct and resubmit. Manufacture shall not proceed.			
C4	Review not required. For information only. Manufacture may proceed.			
JESADesign may proceed to AEC				
NO <input type="checkbox"/> YES <input type="checkbox"/>				
JESA				

Mobile Desalination JORF										
DISCIPLINE			Drawing Title							
PR			10.000 M3/DAY MOCB PID – SWRO FEED PUMPS							
			ESLI Drawing Number							
			PN2713-PID-001							
			JESA Drawing Number							
			QW223501-03-ESL-4500004200-PR-D156-00001							
			JESA S.A							
			SHORE 27 CASABLANCA NEARSHORE PARK 1100 BD AL QODS CASABLANCA, Casablanca							
JESA DRAWING NUMBERING SYSTEM			Project Number	sub Project	Sender Code	PO	Discipline Code	Doc Type	Number	Rev
SHEET 08/18			QW223501	03	ESL	4500004200	PR	D156	00001	3


PROJECT LOCATION :	JORF LASFAR MAROC
PROJECT DESCRIPTION :	Mobile Desalination JORF
PROJECT NUMBER :	QW223501
PURCHASE ORDER REFERENCE :	4500004200
OTHER REFERENCE (tag/unit)	

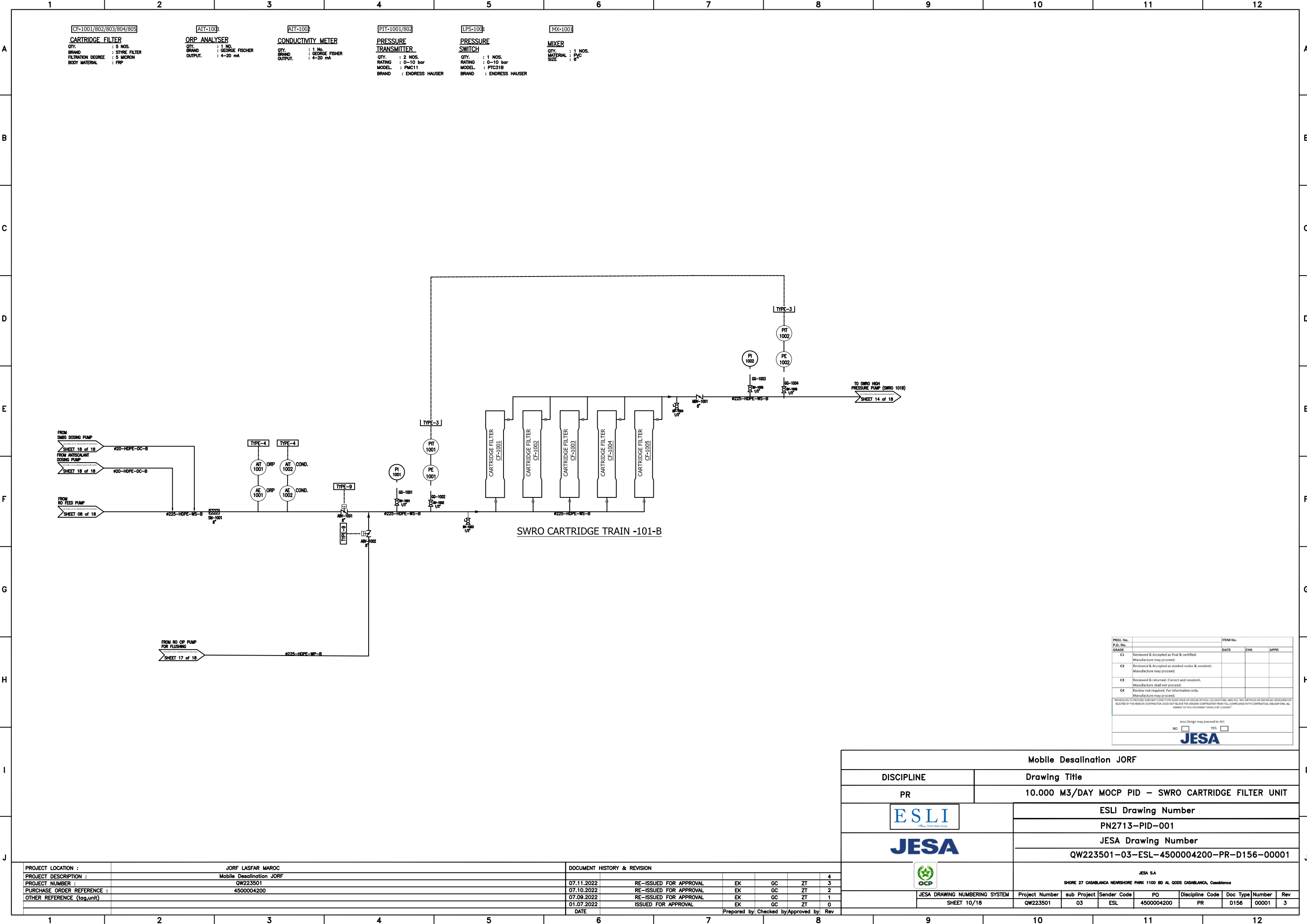
DOCUMENT HISTORY & REVISION					
					4
					3
07.10.2022	RE-ISSUED FOR APPROVAL	EK	GC	ZT	2
07.09.2022	RE-ISSUED FOR APPROVAL	EK	GC	ZT	1
01.07.2022	ISSUED FOR APPROVAL	EK	GC	ZT	0
DATE	Prepared by	Checked by	Approved by	Rev	








PROJ. No.		ITEM No.	
P.O. No.		DATE	CHE
GRADE		APPD	
C1	Reviewed & Accepted as final & certified. Manufacture may proceed.		
C2	Reviewed & Accepted as marked revise & resubmit. Manufacture may proceed.		
C3	Reviewed & returned. Correct and resubmit. Manufacture shall not proceed.		
C4	Review not required. For information only. Manufacture may proceed.		
JESA Design may proceed to AEC			
NO <input type="checkbox"/> YES <input type="checkbox"/>			
JESA			

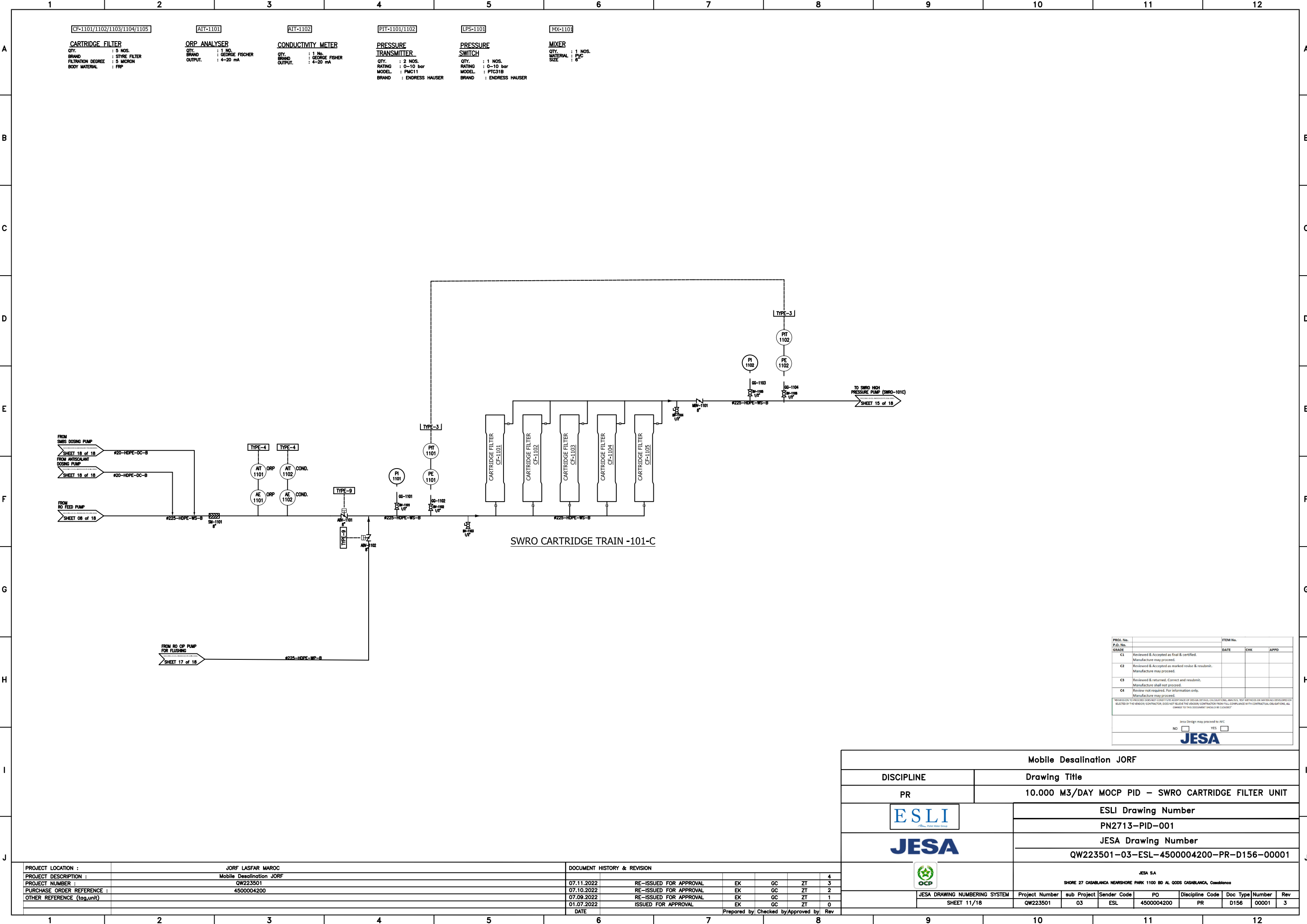
Mobile Desalination JORF										
DISCIPLINE			Drawing Title							
PR			10.000 M3/DAY MOCP PID – SWRO CARTRIDGE FILTER UNIT							
<div>JESA</div> <div></div>			ESLI Drawing Number							
			PN2713–PID–001							
			JESA Drawing Number							
			QW223501–03–ESL–4500004200–PR–D156–00001							
			JESA S.A SHORE 27 CASABLANCA NEARSHORE PARK 1100 BD AL QODS CASABLANCA, Casablanca							
JESA DRAWING NUMBERING SYSTEM			Project Number	sub Project	Sender Code	PO	Discipline Code	Doc Type	Number	Rev
SHEET 09/18			QW223501	03	ESL	4500004200	PR	D156	00001	3



Mobile Desalination JORF										
DISCIPLINE			Drawing Title							
PR			10.000 M3/DAY MOCP PID – SWRO CARTRIDGE FILTER UNIT							
<div> </div>			ESLI Drawing Number							
			PN2713–PID–001							
			JESA Drawing Number							
			QW223501–03–ESL–4500004200–PR–D156–00001							
			JESA S.A SHORE 27 CASABLANCA NEARSHORE PARK 1100 BD AL QODS CASABLANCA, Casablanca							
JESA DRAWING NUMBERING SYSTEM			Project Number	sub Project	Sender Code	PO	Discipline Code	Doc Type	Number	Rev
SHEET 10/18			QW223501	03	ESL	4500004200	PR	D156	00001	3

PROJECT LOCATION :	JORF LASFAR MAROC
PROJECT DESCRIPTION :	Mobile Desalination JORF
PROJECT NUMBER :	QW223501
PURCHASE ORDER REFERENCE :	4500004200
OTHER REFERENCE (tag/unit)	

DOCUMENT HISTORY & REVISION					
07.11.2022	RE-ISSUED FOR APPROVAL	EK	GC	ZT	4
07.10.2022	RE-ISSUED FOR APPROVAL	EK	GC	ZT	3
07.09.2022	RE-ISSUED FOR APPROVAL	EK	GC	ZT	2
01.07.2022	ISSUED FOR APPROVAL	EK	GC	ZT	1
					0
DATE	Prepared by	Checked by	Approved by	Rev	



CF-1101/1102/1103/1104/1105

CARTRIDGE FILTER

QTY. : 5 NOS.  
BRAND : STYRE FILTER  
FILTRATION DEGREE : 5 MICRON  
BODY MATERIAL : FRP

AIT-1101

ORP ANALYSER

QTY. : 1 NO.  
BRAND : GEORGE FISCHER  
OUTPUT. : 4-20 mA

AIT-1102

CONDUCTIVITY METER

QTY. : 1 No.  
BRAND : GEORGE FISCHER  
OUTPUT. : 4-20 mA

PIT-1101/1102

PRESSURE TRANSMITTER

QTY. : 2 NOS.  
RATING : 0-10 bar  
MODEL : PMS11  
BRAND : ENDRESS HAUSER

LPS-1101

PRESSURE SWITCH




QTY. : 1 NOS.  
RATING : 0-10 bar  
MODEL : PTS319  
BRAND : ENDRESS HAUSER

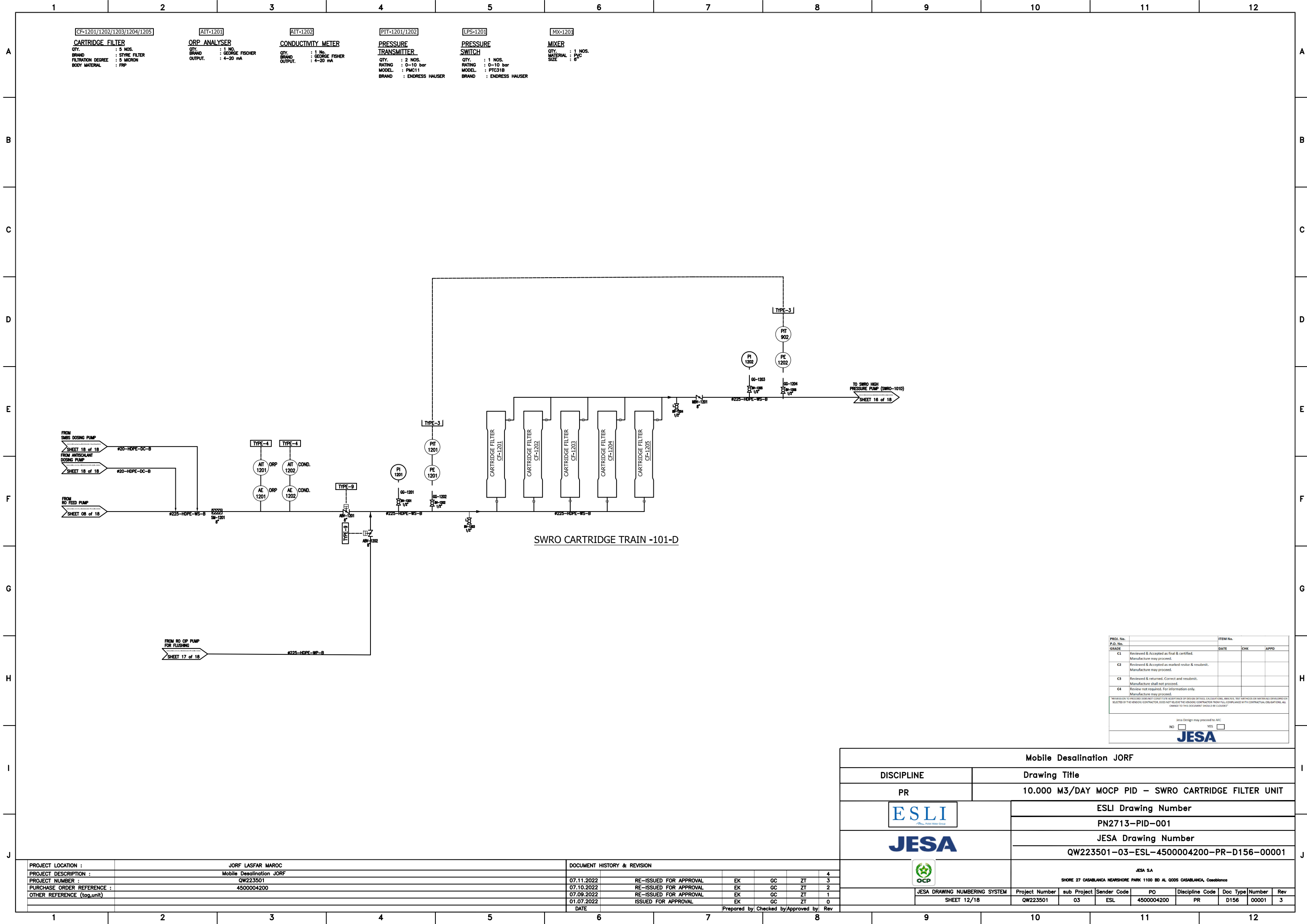
MX-110

MIXER

QTY. : 1 NOS.  
MATERIAL : PVC  
SIZE : 6"

PROJ. No.	ITEM No.
P.O. No.	
GRADE	
C1	Reviewed & Accepted as final & certified. Manufacture may proceed.
C2	Reviewed & Accepted as marked revise & resubmit. Manufacture may proceed.
C3	Reviewed & returned. Correct and resubmit. Manufacture shall not proceed.
C4	Review not required. For information only. Manufacture may proceed.
JESADesign may proceed to AEC	
NO	YES

Mobile Desalination JORF										
DISCIPLINE			Drawing Title							
PR			10.000 M3/DAY MOCB PID – SWRO CARTRIDGE FILTER UNIT							
<div> </div>			ESLI Drawing Number							
			PN2713–PID–001							
			JESA Drawing Number							
			QW223501–03–ESL–4500004200–PR–D156–00001							
			JESA S.A SHORE 27 CASABLANCA NEARSHORE PARK 1100 BD AL QODS CASABLANCA, Casablanca							
JESA DRAWING NUMBERING SYSTEM			Project Number	sub Project	Sender Code	PO	Discipline Code	Doc Type	Number	Rev
SHEET 11/18			QW223501	03	ESL	4500004200	PR	D156	00001	3



**CF-1201/1202/1203/1204/1205**  
**CARTRIDGE FILTER**  
QTY. : 5 NOS.  
BRAND : STYRE FILTER  
FILTRATION DEGREE : 5 MICRON  
BODY MATERIAL : FRP

**AIT-1201**  
**ORP ANALYSER**  
QTY. : 1 NO.  
BRAND : GEORGE FISCHER  
OUTPUT. : 4-20 mA

**AIT-1202**  
**CONDUCTIVITY METER**  
QTY. : 1 No.  
BRAND : GEORGE FISCHER  
OUTPUT. : 4-20 mA

**PIT-1201/1202**  
**PRESSURE TRANSMITTER**  
QTY. : 2 NOS.  
RATING : 0-10 bar  
MODEL : PMC11  
BRAND : ENDRESS HAUSER

**LPS-1201**  
**PRESSURE SWITCH**  
QTY. : 1 NOS.  
RATING : 0-10 bar  
MODEL : PTC318  
BRAND : ENDRESS HAUSER

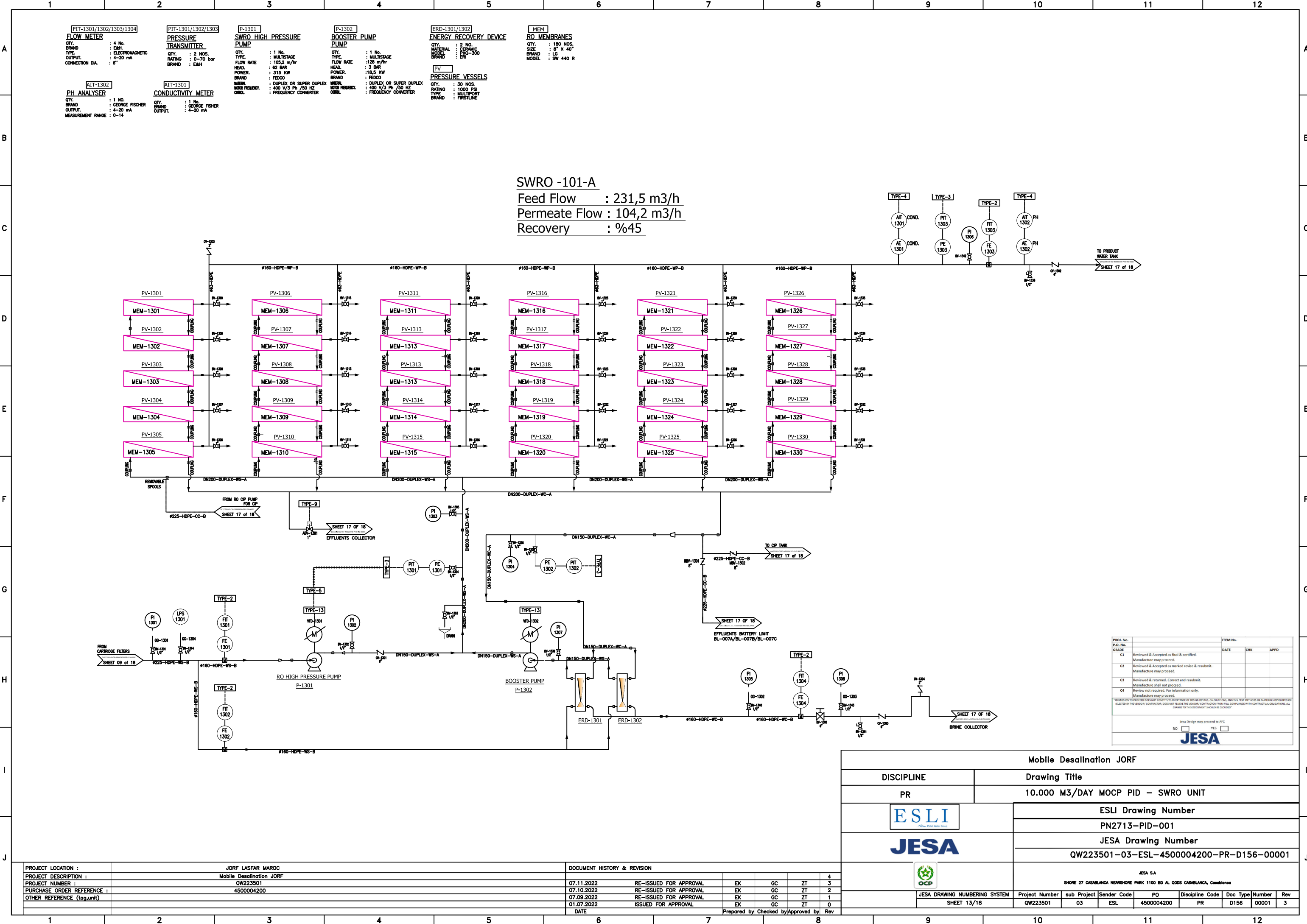
**MX-120**  
**MIXER**  
QTY. : 1 NOS.  
MATERIAL : PVC  
SIZE : 6"

PROJ. No.		ITEM No.	
P.O. No.		DATE	CHK
GRADE		APPD	
C1	Reviewed & Accepted as final & certified. Manufacture may proceed.		
C2	Reviewed & Accepted as marked revise & resubmit. Manufacture may proceed.		
C3	Reviewed & returned. Correct and resubmit. Manufacture shall not proceed.		
C4	Review not required. For information only. Manufacture may proceed.		
JESADesign may proceed to AEC			
NO <input type="checkbox"/> YES <input type="checkbox"/>			
JESA			

Mobile Desalination JORF									
DISCIPLINE					Drawing Title				
PR					10.000 M3/DAY MOCP PID – SWRO CARTRIDGE FILTER UNIT				
ESLI					ESLI Drawing Number				
					PN2713-PID-001				
JESA					JESA Drawing Number				
					QW223501-03-ESL-4500004200-PR-D156-00001				
JESA S.A.					SHORE 27 CASABLANCA NEARSHORE PARK 1100 BD AL QODS CASABLANCA, Casablanca				
JESA DRAWING NUMBERING SYSTEM					Project Number	sub Project	Sender Code	PO	Discipline Code
SHEET 12/18					QW223501	03	ESL	4500004200	PR
					Doc Type	Number	Rev		
					D156	00001	3		

PROJECT LOCATION :	JORF LASFAR MAROC
PROJECT DESCRIPTION :	Mobile Desalination JORF
PROJECT NUMBER :	QW223501
PURCHASE ORDER REFERENCE :	4500004200
OTHER REFERENCE (tag/unit)	

DOCUMENT HISTORY & REVISION					
07.11.2022	RE-ISSUED FOR APPROVAL	EK	GC	ZT	4
07.10.2022	RE-ISSUED FOR APPROVAL	EK	GC	ZT	3
07.09.2022	RE-ISSUED FOR APPROVAL	EK	GC	ZT	2
01.07.2022	ISSUED FOR APPROVAL	EK	GC	ZT	1
DATE	Prepared by	Checked by	Approved by	Rev	






SWRO -101-A  
Feed Flow : 231,5 m3/h  
Permeate Flow : 104,2 m3/h  
Recovery : %45

PROJ. No.	ITEM No.
P.O. No.	DATE
GRADE	CHE
C1	Reviewed & Accepted as final & certified. Manufacture may proceed.
C2	Reviewed & Accepted as marked revise & resubmit. Manufacture may proceed.
C3	Reviewed & returned. Correct and resubmit. Manufacture shall not proceed.
C4	Review not required. For information only. Manufacture may proceed.

Item Design may proceed to AEC

NO ☐ YES ☐

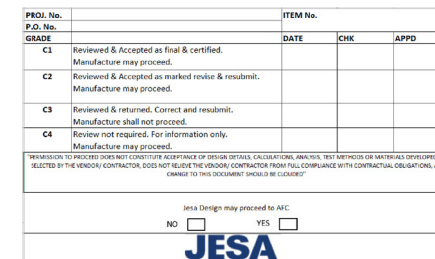
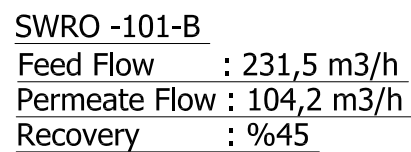
**JESA**




Mobile Desalination JORF	
DISCIPLINE	Drawing Title
PR	10.000 M3/DAY MOCP PID – SWRO UNIT
 	ESLI Drawing Number
	PN2713-PID-001
	JESA Drawing Number
	QW223501-03-ESL-4500004200-PR-D156-00001
JESA S.A. SHORE 27 CASABLANCA NEARSHORE PARK 1100 BD AL QODS CASABLANCA, Casablanca	
JESA DRAWING NUMBERING SYSTEM SHEET 13/18	Project Number sub Project Sender Code PO Discipline Code Doc Type Number Rev QW223501 03 ESL 4500004200 PR D156 00001 3

PROJECT LOCATION :	JORF LASFAR MAROC
PROJECT DESCRIPTION :	Mobile Desalination JORF
PROJECT NUMBER :	QW223501
PURCHASE ORDER REFERENCE :	4500004200
OTHER REFERENCE (tag/unit)	

DOCUMENT HISTORY & REVISION					
07.11.2022	RE-ISSUED FOR APPROVAL	EK	GC	ZT	4
07.10.2022	RE-ISSUED FOR APPROVAL	EK	GC	ZT	3
07.09.2022	RE-ISSUED FOR APPROVAL	EK	GC	ZT	2
01.07.2022	ISSUED FOR APPROVAL	EK	GC	ZT	1
DATE	Prepared by	Checked by	Approved by	Rev	

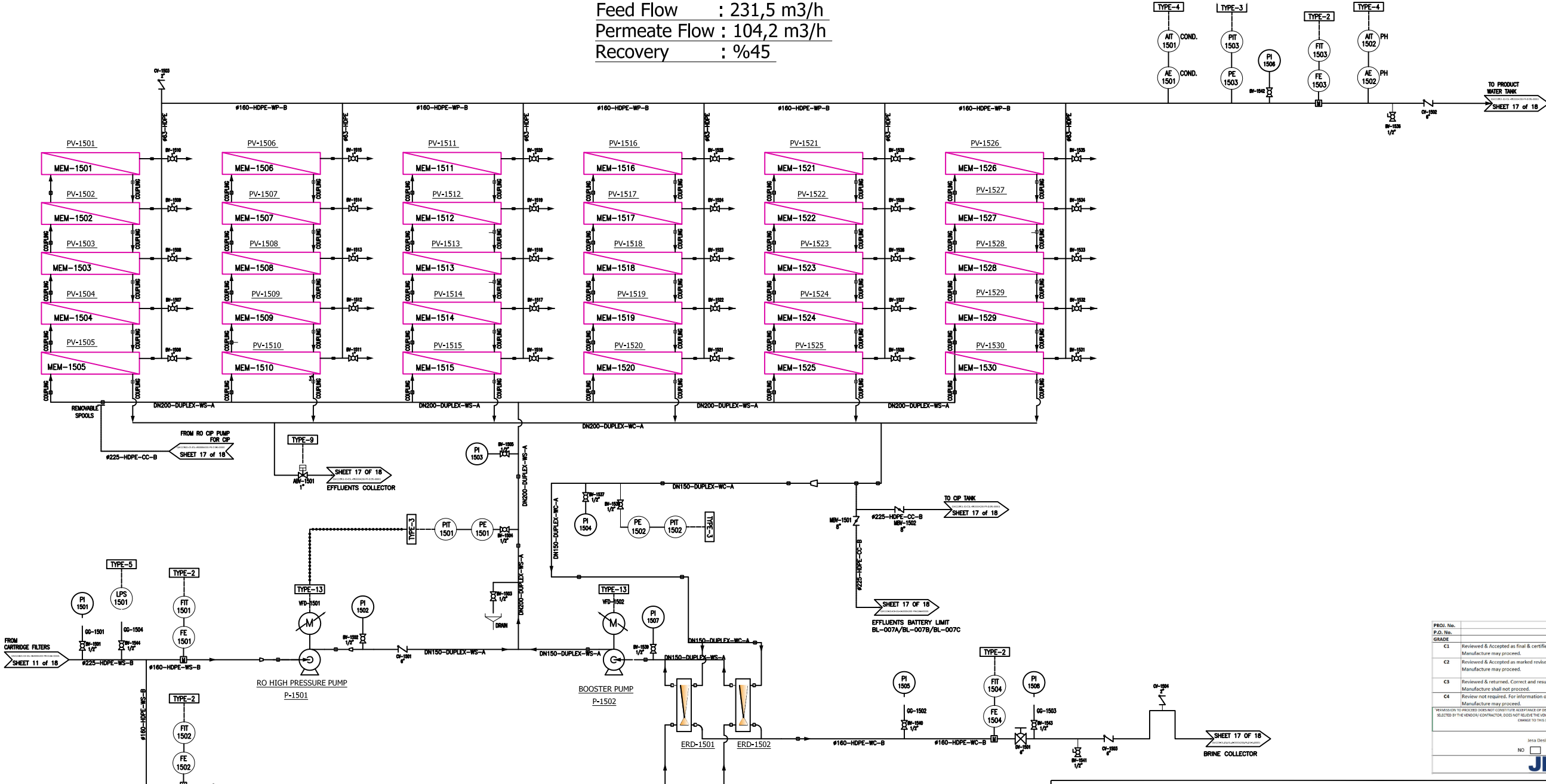




Mobile Desalination JORF											
DISCIPLINE				Drawing Title							
PR				10.000 M3/DAY MOCPP PID – SWRO UNIT							
				ESLI Drawing Number							
				PN2713–PID–001							
				JESA Drawing Number							
				QW223501–03–ESL–4500004200–PR–D156–0000							
				JESA SA							
				SHORE 27 CASABLANCA NEARSHORE PARK 1100 BD AL OODS CASABLANCA, Casablanca							
JESA DRAWING NUMBERING SYSTEM				Project Number	sub Project	Sender Code	PO	Discipline Code	Doc Type	Number	Re
SHEET 14/18				QW223501	03	ESL	4500004200	PR	D156	00001	3

- FIT-1501/1502/1503/1504**  
**FLOW METER**  
QTY. : 4 No.  
BRAND : E&H  
TYPE : ELECTROMAGNETIC  
OUTPUT : 4-20 mA  
CONNECTION DIA. : 6"
- PIT-1501/1502/1503**  
**PRESSURE TRANSMITTER**  
QTY. : 2 NOS.  
RATING : 0-70 bar  
BRAND : E&H
- P-1501**  
**SWRO HIGH PRESSURE PUMP**  
QTY. : 1 No.  
TYPE : MULTISTAGE  
FLOW RATE : 105.2 m<sup>3</sup>/hr  
HEAD : 82-84 BAR  
POWER : 315 KW  
BRAND : FEDCO  
WINDING : DUPLEX OR SUPER DUPLEX  
WATER FREQUENCY : 400 V/3 Ph /50 HZ  
CONTROL : FREQUENCY CONVERTER
- P-1502**  
**BOOSTER PUMP**  
QTY. : 1 No.  
TYPE : MULTISTAGE  
FLOW RATE : 128 m<sup>3</sup>/hr  
HEAD : 3 BAR  
POWER : 18.5 KW  
BRAND : FEDCO  
WINDING : DUPLEX OR SUPER DUPLEX  
WATER FREQUENCY : 400 V/3 Ph /50 HZ  
CONTROL : FREQUENCY CONVERTER
- ERD-1501/1502**  
**ENERGY RECOVERY DEVICE**  
QTY. : 2 NOS.  
MATERIAL : CERAMIC  
MODEL : PEA-500  
BRAND : EN
- MEM**  
**RO MEMBRANES**  
QTY. : 210 NOS.  
SIZE : 8" X 40"  
BRAND : LO  
MODEL : SW 400 R
- AIT-1502**  
**PH ANALYSER**  
QTY. : 1 No.  
BRAND : GEORGE FISCHER  
OUTPUT : 4-20 mA  
MEASUREMENT RANGE : 0-14
- AIT-1501**  
**CONDUCTIVITY METER**  
QTY. : 1 No.  
BRAND : GEORGE FISCHER  
OUTPUT : 4-20 mA




SWRO -101-C  
Feed Flow : 231,5 m3/h  
Permeate Flow : 104,2 m3/h  
Recovery : %45

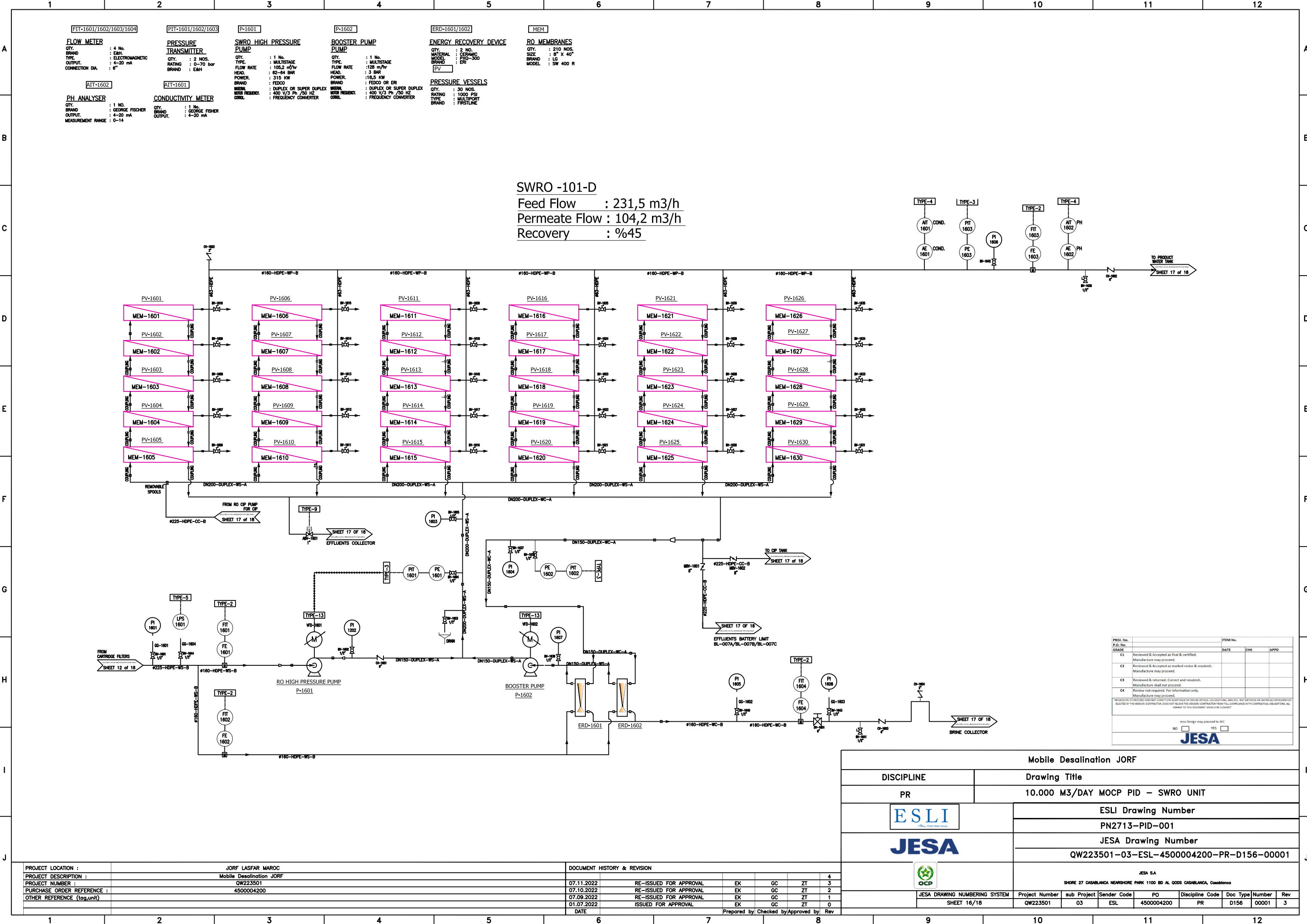


PROJ. No.	ITEM No.
P.O. No.	
GRADE	
C1	Reviewed & Accepted as final & certified. Manufacture may proceed.
C2	Reviewed & Accepted as marked revise & resubmit. Manufacture may proceed.
C3	Reviewed & returned. Correct and resubmit. Manufacture shall not proceed.
C4	Review not required. For information only. Manufacture may proceed.
JESA Design may proceed to AEC	
NO	YES

PROJECT LOCATION :	JORF LASFAR MAROC
PROJECT DESCRIPTION :	Mobile Desalination JORF
PROJECT NUMBER :	QW223501
PURCHASE ORDER REFERENCE :	4500004200
OTHER REFERENCE (tag/unit)	

DOCUMENT HISTORY & REVISION					
07.11.2022	RE-ISSUED FOR APPROVAL	EK	GC	ZT	4
07.10.2022	RE-ISSUED FOR APPROVAL	EK	GC	ZT	3
07.09.2022	RE-ISSUED FOR APPROVAL	EK	GC	ZT	2
01.07.2022	ISSUED FOR APPROVAL	EK	GC	ZT	1
DATE					0

Mobile Desalination JORF										
DISCIPLINE			Drawing Title							
PR			10.000 M3/DAY MOCF PID – SWRO UNIT							
			ESLI Drawing Number							
			PN2713–PID–001							
			JESA Drawing Number							
			QW223501–03–ESL–4500004200–PR–D156–00001							
			JESA S.A SHORE 27 CASABLANCA NEARSHORE PARK 1100 BD AL QODS CASABLANCA, Casablanca							
JESA DRAWING NUMBERING SYSTEM			Project Number	sub Project	Sender Code	PO	Discipline Code	Doc Type	Number	Rev
SHEET 15/18			QW223501	03	ESL	4500004200	PR	D156	00001	3






SWRO -101-D  
Feed Flow : 231,5 m3/h  
Permeate Flow : 104,2 m3/h  
Recovery : %45

PROJ. No.	ITEM No.
P.O. No.	DATE
GRADE	CHK
C1	Reviewed & Accepted as final & certified. Manufacture may proceed.
C2	Reviewed & Accepted as marked revise & resubmit. Manufacture may proceed.
C3	Reviewed & returned. Correct and resubmit. Manufacture shall not proceed.
C4	Review not required. For information only. Manufacture may proceed.

Item Design may proceed to AEC

NO ☐ YES ☐

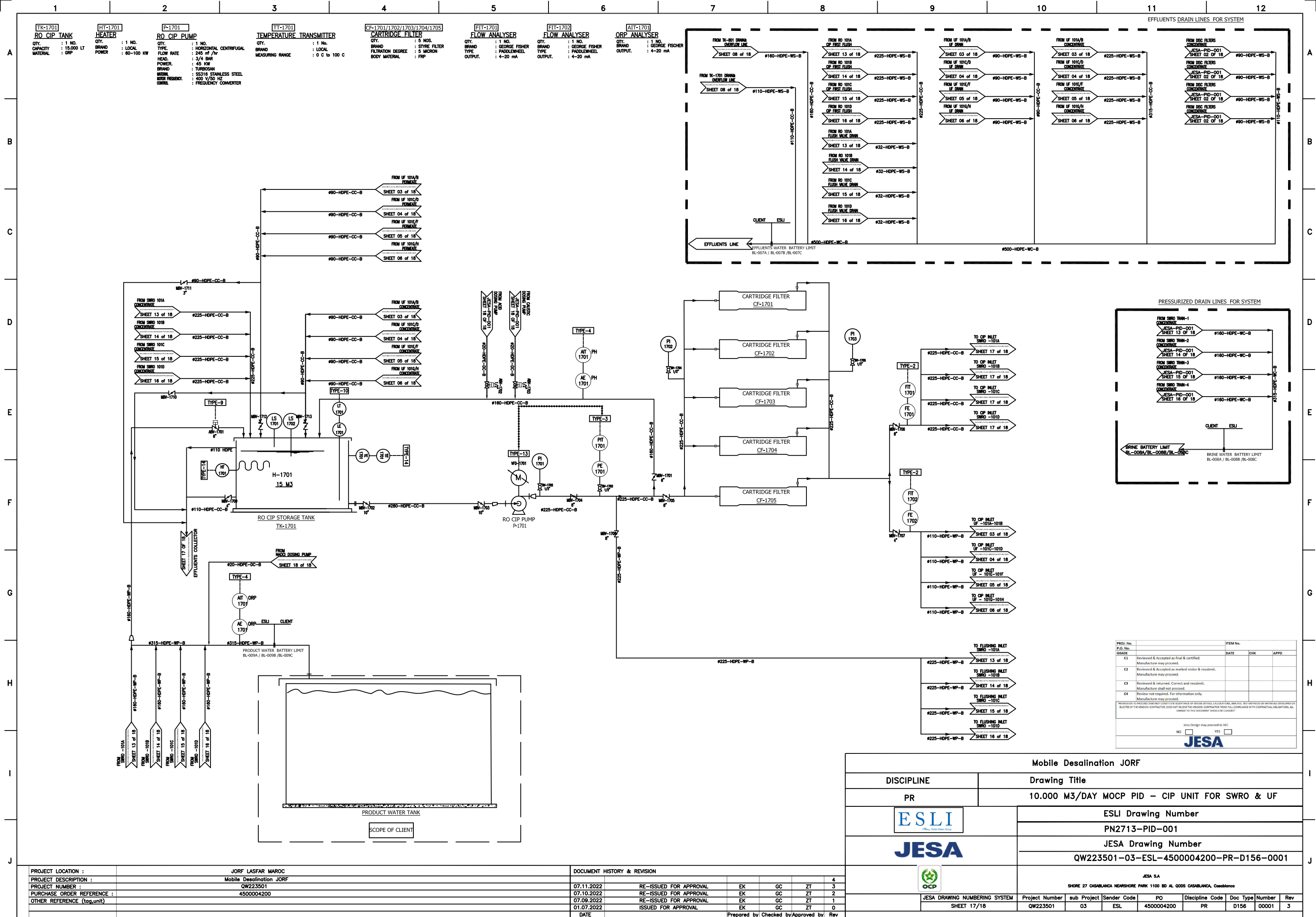
**JESA**

Mobile Desalination JORF	
DISCIPLINE	Drawing Title
PR	10.000 M3/DAY MOCF PID – SWRO UNIT
 	ESLI Drawing Number
	PN2713-PID-001
	JESA Drawing Number
	QW223501-03-ESL-4500004200-PR-D156-00001
JESA S.A. SHORE 27 CASABLANCA NEARSHORE PARK 1100 BD AL QODS CASABLANCA, Casablanca	
JESA DRAWING NUMBERING SYSTEM SHEET 16/18	Project Number sub Project Sender Code PO Discipline Code Doc Type Number Rev QW223501 03 ESL 4500004200 PR D156 00001 3

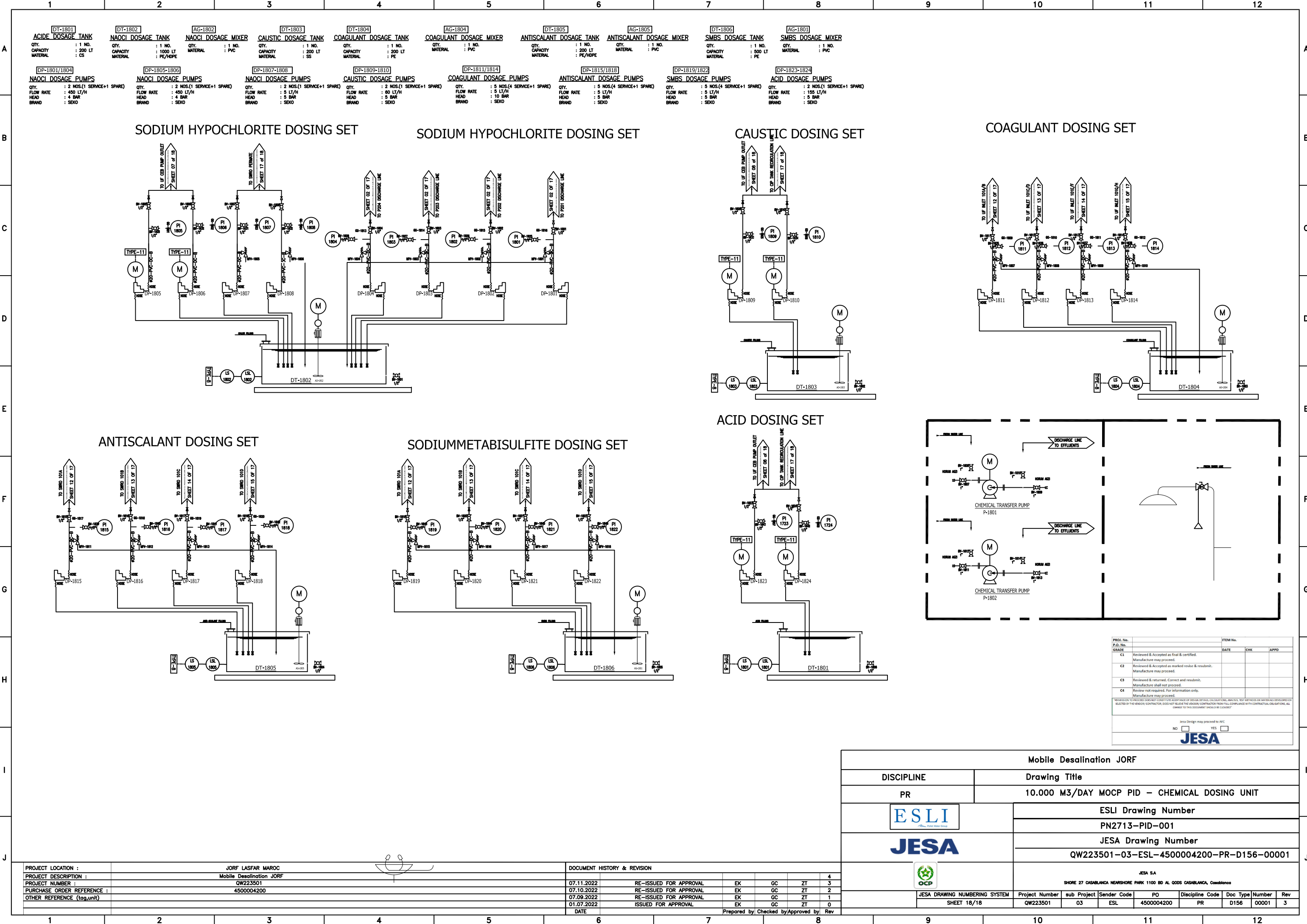
PROJECT LOCATION :	JORF LASFAR MAROC
PROJECT DESCRIPTION :	Mobile Desalination JORF
PROJECT NUMBER :	QW223501
PURCHASE ORDER REFERENCE :	4500004200
OTHER REFERENCE (tag/unit)	

DOCUMENT HISTORY & REVISION					
07.11.2022	RE-ISSUED FOR APPROVAL	EK	GC	ZT	4
07.10.2022	RE-ISSUED FOR APPROVAL	EK	GC	ZT	3
07.09.2022	RE-ISSUED FOR APPROVAL	EK	GC	ZT	2
01.07.2022	ISSUED FOR APPROVAL	EK	GC	ZT	1
DATE					0

Prepared by Checked by Approved by Rev







A  
B  
C  
D  
E  
F  
G  
H  
I  
J

A  
B  
C  
D  
E  
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G  
H  
I  
J

<b>DT-1801</b> <b>ACIDE DOSAGE TANK</b> QTY. : 1 NO. CAPACITY : 200 LT MATERIAL : CS	<b>DT-1802</b> <b>NAOCl DOSAGE TANK</b> QTY. : 1 NO. CAPACITY : 1000 LT MATERIAL : PE/HDPE	<b>AG-1802</b> <b>NAOCl DOSAGE MIXER</b> QTY. : 1 NO. MATERIAL : PVC	<b>DT-1803</b> <b>CAUSTIC DOSAGE TANK</b> QTY. : 1 NO. CAPACITY : 200 LT MATERIAL : SS	<b>DT-1804</b> <b>COAGULANT DOSAGE TANK</b> QTY. : 1 NO. CAPACITY : 200 LT MATERIAL : PE	<b>AG-1804</b> <b>COAGULANT DOSAGE MIXER</b> QTY. : 1 NO. MATERIAL : PVC	<b>DT-1805</b> <b>ANTISCALANT DOSAGE TANK</b> QTY. : 1 NO. CAPACITY : 200 LT MATERIAL : PE/HDPE	<b>AG-1805</b> <b>ANTISCALANT DOSAGE MIXER</b> QTY. : 1 NO. MATERIAL : PVC	<b>DT-1806</b> <b>SMBS DOSAGE TANK</b> QTY. : 1 NO. CAPACITY : 500 LT MATERIAL : PE	<b>AG-1801</b> <b>SMBS DOSAGE MIXER</b> QTY. : 1 NO. MATERIAL : PVC
<b>DP-1801/1804</b> <b>NAOCl DOSAGE PUMPS</b> QTY. : 2 NOS.(1 SERVICE+1 SPARE) FLOW RATE : 450 LT/H HEAD : 4 BAR BRAND : SEKO	<b>DP-1805/1806</b> <b>NAOCl DOSAGE PUMPS</b> QTY. : 2 NOS.(1 SERVICE+1 SPARE) FLOW RATE : 450 LT/H HEAD : 4 BAR BRAND : SEKO	<b>DP-1807/1808</b> <b>NAOCl DOSAGE PUMPS</b> QTY. : 2 NOS.(1 SERVICE+1 SPARE) FLOW RATE : 5 LT/H HEAD : 5 BAR BRAND : SEKO	<b>DP-1809/1810</b> <b>CAUSTIC DOSAGE PUMPS</b> QTY. : 2 NOS.(1 SERVICE+1 SPARE) FLOW RATE : 60 LT/H HEAD : 5 BAR BRAND : SEKO	<b>DP-1811/1814</b> <b>COAGULANT DOSAGE PUMPS</b> QTY. : 5 NOS.(4 SERVICE+1 SPARE) FLOW RATE : 5 LT/H HEAD : 10 BAR BRAND : SEKO	<b>DP-1815/1818</b> <b>ANTISCALANT DOSAGE PUMPS</b> QTY. : 5 NOS.(4 SERVICE+1 SPARE) FLOW RATE : 5 LT/H HEAD : 5 BAR BRAND : SEKO	<b>DP-1819/1822</b> <b>SMBS DOSAGE PUMPS</b> QTY. : 5 NOS.(4 SERVICE+1 SPARE) FLOW RATE : 5 LT/H HEAD : 5 BAR BRAND : SEKO	<b>DP-1823/1824</b> <b>ACID DOSAGE PUMPS</b> QTY. : 2 NOS.(1 SERVICE+1 SPARE) FLOW RATE : 155 LT/H HEAD : 5 BAR BRAND : SEKO		

SODIUM HYPOCHLORITE DOSING SET

SODIUM HYPOCHLORITE DOSING SET

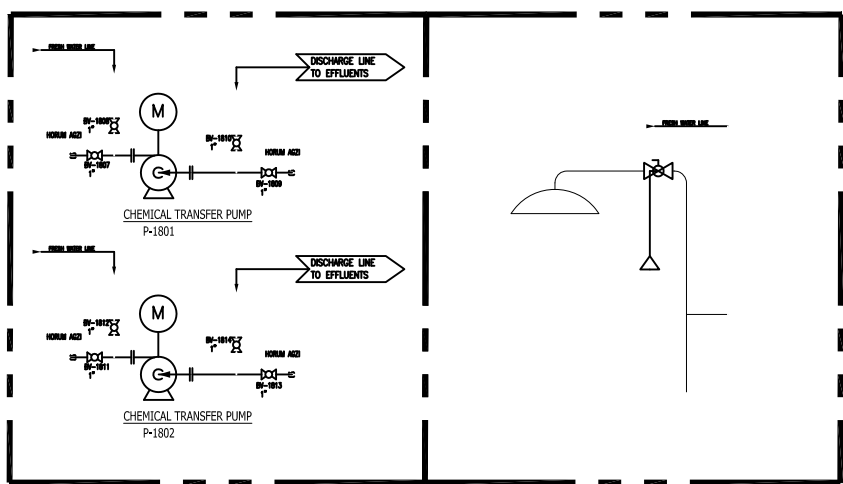
CAUSTIC DOSING SET

COAGULANT DOSING SET

ANTISCALANT DOSING SET

SODIUMMETABISULFITE DOSING SET

ACID DOSING SET



PROJ. No.		ITEM No.	
P.O. No.		DATE	CHK
GRADE		APPD	
C1	Reviewed & Accepted as final & certified. Manufacture may proceed.		
C2	Reviewed & Accepted as marked revise & resubmit. Manufacture may proceed.		
C3	Reviewed & returned. Correct and resubmit. Manufacture shall not proceed.		
C4	Review not required. For information only. Manufacture may proceed.		
JESADesign may proceed to REC			
NO <input type="checkbox"/> YES <input type="checkbox"/>			
JESA			

PROJECT LOCATION :	JORF LASFAR MAROC	DOCUMENT HISTORY & REVISION	
PROJECT DESCRIPTION :	Mobile Desalination JORF		
PROJECT NUMBER :	QW223501	07.11.2022	RE-ISSUED FOR APPROVAL
PURCHASE ORDER REFERENCE :	4500004200	07.10.2022	RE-ISSUED FOR APPROVAL
OTHER REFERENCE (tag/unit)		07.09.2022	RE-ISSUED FOR APPROVAL
		01.07.2022	ISSUED FOR APPROVAL
		DATE	Prepared by/Checked by/Approved by/Rev

Mobile Desalination JORF	
DISCIPLINE	Drawing Title
PR	10.000 M3/DAY MOCB PID – CHEMICAL DOSING UNIT
ESLI	ESLI Drawing Number
JESA	PN2713-PID-001
	JESA Drawing Number
	QW223501-03-ESL-4500004200-PR-D156-00001
JESA S.A.	
SHORE 27 CASABLANCA NEARSHORE PARK 1100 BD AL QODS CASABLANCA, Casablanca	
JESA DRAWING NUMBERING SYSTEM	Project Number
SHEET 18/18	QW223501
	sub Project
	03
	Sender Code
	ESL
	PO
	4500004200
	Discipline Code
	PR
	Doc Type
	D156
	Number
	00001
	Rev
	3