

5157

Exhibit No. _____
Worldwide Court
Reporters, Inc.

TRN-MDL-00304715

SHEET NO.		NAME OF DEVICE		SHEET NO.		NAME OF DEVICE	
23	45	AMF BOARD -A31	AMF BOARD -A62	2	3	TERMINALS -X1, -X2, -X3, -X4, -X5, -X6, -X7, -X8, -X9, -X10, -X11	TERMINALS -X12, -X13, -X14, -X15, -X16, -X17
3	4	AMPLIFIER -A1, -A2, -A3	AMPLIFIER -A4, -A5	4	5	TERMINALS -X18, -X19, -X20	TERMINALS -X18, -X19, -X20, -X21
5	6	AMPLIFIER -A7, -A8	AMPLIFIER -A7, -A9	6	7	TERMINALS -X21, -X22, -X23	TERMINALS -X22, -X24, -X25
7	8	AMPLIFIER -A10, -A11	AMPLIFIER -A10, -A12	8	9	TERMINALS -X25, -X26, -X27	TERMINALS -X26, -X27, -X28
9	10	AMPLIFIER -A13, -A14	AMPLIFIER -A13, -A15	10	11	TERMINALS -X29, -X30, -X31	TERMINALS -X29, -X31, -X32
11	12	AMPLIFIER -A16, -A17	AMPLIFIER -A16, -A18	12	13	TERMINALS -X32, -X33, -X34	TERMINALS -X33, -X35, -X36
13	14	AMPLIFIER -A19, -A20	AMPLIFIER -A19, -A21	14	15	TERMINALS -X36, -X37, -X38	TERMINALS -X37, -X38, -X39
15	16	AMPLIFIER -A22, -A23	AMPLIFIER -A22, -A24	16	17	TERMINALS -X40, -X41, -X42	TERMINALS -X40, -X42
17	18	AMPLIFIER -A25, -A26	AMPLIFIER -A25, -A27	18	19	TERMINALS -X43, -X44	TERMINALS -X43, -X44
19	20	AMPLIFIER -A28, -A29	AMPLIFIER -A28, -A30	20	21	TERMINALS -X45, -X46, -X80	TERMINALS -X45, -X46, -X76, -X77, -X78
21	22	AMPLIFIER -A32, -A33, -A34	AMPLIFIER -A32, -A33, -A34	22	23	TERMINALS -X47	TERMINALS -X47
23	24	AMPLIFIER -A35, -A36	AMPLIFIER -A35, -A37	25	26	TERMINALS -X48, -X49, -X50, -X51, -X52	TERMINALS -X53, -X54, -X55, -X59
25	26	AMPLIFIER -A38, -A39	AMPLIFIER -A38, -A40	27	28	TERMINALS -X60, -X61, -X62, -X63, -X64	TERMINALS -X65
27	28	AMPLIFIER -A41, -A42	AMPLIFIER -A41, -A43	29	30	TERMINALS -X66	TERMINALS -X66
29	30	AMPLIFIER -A44, -A45	AMPLIFIER -A44, -A46	31	32	TERMINALS -X67	TERMINALS -X67
31	32	AMPLIFIER -A47, -A48	AMPLIFIER -A47, -A49	33	34	TERMINALS -X68	TERMINALS -X68
33	34	AMPLIFIER -A50, -A51	AMPLIFIER -A50, -A52	35	36	TERMINALS -X69	TERMINALS -X69
35	36	AMPLIFIER -A53, -A54	AMPLIFIER -A53, -A55	37	38	TERMINALS -X70	TERMINALS -X70
37	38	AMPLIFIER -A56, -A57	AMPLIFIER -A56, -A58	39	40	TERMINALS -X71	TERMINALS -X71
39	40	AMPLIFIER -A59, -A60	AMPLIFIER -A59, -A61	41	42	TERMINALS -X72	TERMINALS -X72
41	42	AMPLIFIER -A62	AMPLIFIER -A62	43	44	TERMINALS -X73	TERMINALS -X73
43	44	DIODE -V1, -V2, -V3, -V4, -V5	DIODE -V6, -V7, -V8, -V9	45	46	TERMINALS -X74	TERMINALS -X74
45	46	DIODE -V10, -V11, -V12, -V13	DIODE -V14, -V15, -V16	47	48	TERMINALS -X75, -X79	TERMINALS -X75, -X79
47	48	FUSE BOARD -F1, -F2	FUSE BOARD -F3, -F4	49	50	MOTOR -M1, -M2, -M3, -M4	TERMSWITCH -B1
49	50	POWER SUPPLY -G1, -G2, -G3	POWER SUPPLY -G4	51	52	POWER SUPPLY -G5, -G6, -G7	POWER SUPPLY -G8
51	52	RELAY COILS -K1, -K2, -K3, -K4, -K5	RELAY COILS -K6	53	54	RESISTOR -R1, -R2, -R3	RESISTOR -R4
53	54	RESISTOR -R5, -R6, -R7	RESISTOR -R8	55	56	RESISTOR -R9, -R10, -R11	RESISTOR -R12, -R13, -R14

DEVICE DESIGNATION

- X X : X
X.X

PIN NUMBER
DEVICE NUMBER
REFERENCE CHARACTER
IDENTIFICATION SYMBOL OF ITEM DESIGNATION
SECTION NUMBER
SHEET NUMBER

LIST OF REFERENCE CHARACTERS

- A → AMPLIFIER; SPS COMPONENT
- B → CONVERTER
- C → CAPACITOR
- F → FUSE; MOTOR PROTECTION
- G → GENERATOR, POWER SUPPLY
- H → LAMP; HORN
- K → RELAY
- M → MOTOR
- P → MEASURING INSTRUMENT
- R → RESISTOR
- S → SWITCH
- T → TRANSFORMER
- V → DIODE
- X → TERMINAL
- Y → VALVE

TABLE 1

ADR. PBA/PBB

1/2	04
3/4	0C
5/6	14
7/8	1C
9/10	24
11/12	2C
13/14	34
15/16	3C
17/18	44
19/20	4C
21/22	54

REMARKS:

- X1 φ TERMINALS
- X1 φ TWIN TERMINALS
- X1 φ DOUBLE TERMINAL BLOCKS
- LINE OF DEMARCATION
- SHIELD
- FOR INFORMATION

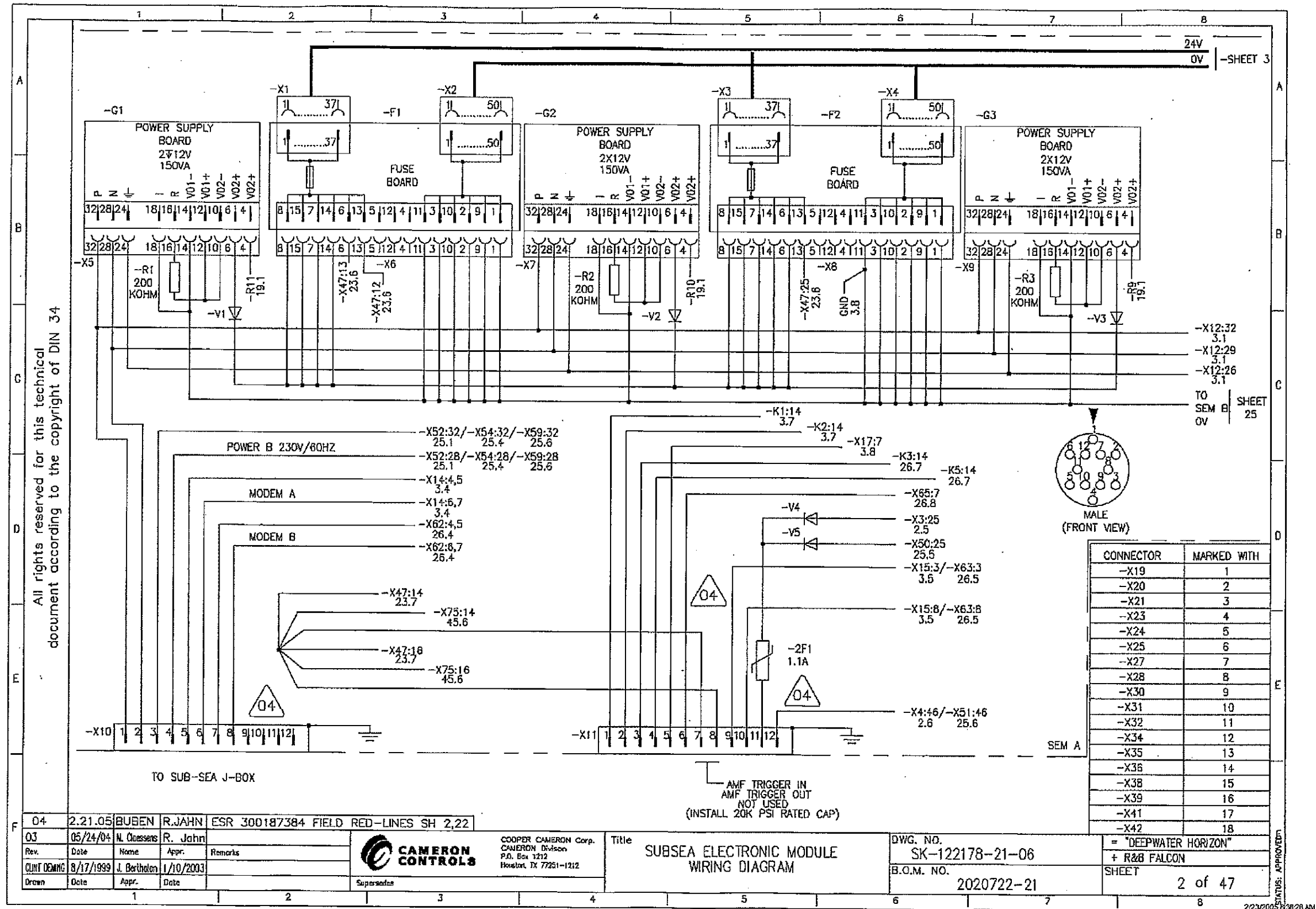
NOTES:

UNLESS OTHERWISE SPECIFIED

- ALL INPUT AND OUTPUT WIRES SHALL BE NO. 24AWG.
- BUS WIRES SHALL BE 0.80MM² OR NO. 18AWG.
- INPUT POWER WIRES SHALL BE NO. 14AWG.
- 24VDC AND 5VDC OUTPUT WIRES SHALL BE NO. 14AWG.
- DO NOT REMOVE THE DIODES WHILE THE POWER IS ON.
- RESISTORS R1, R2, R3, R5, R6 & R7 MUST BE MOUNTED AS CLOSE AS POSSIBLE TO THE POWER SUPPLY.

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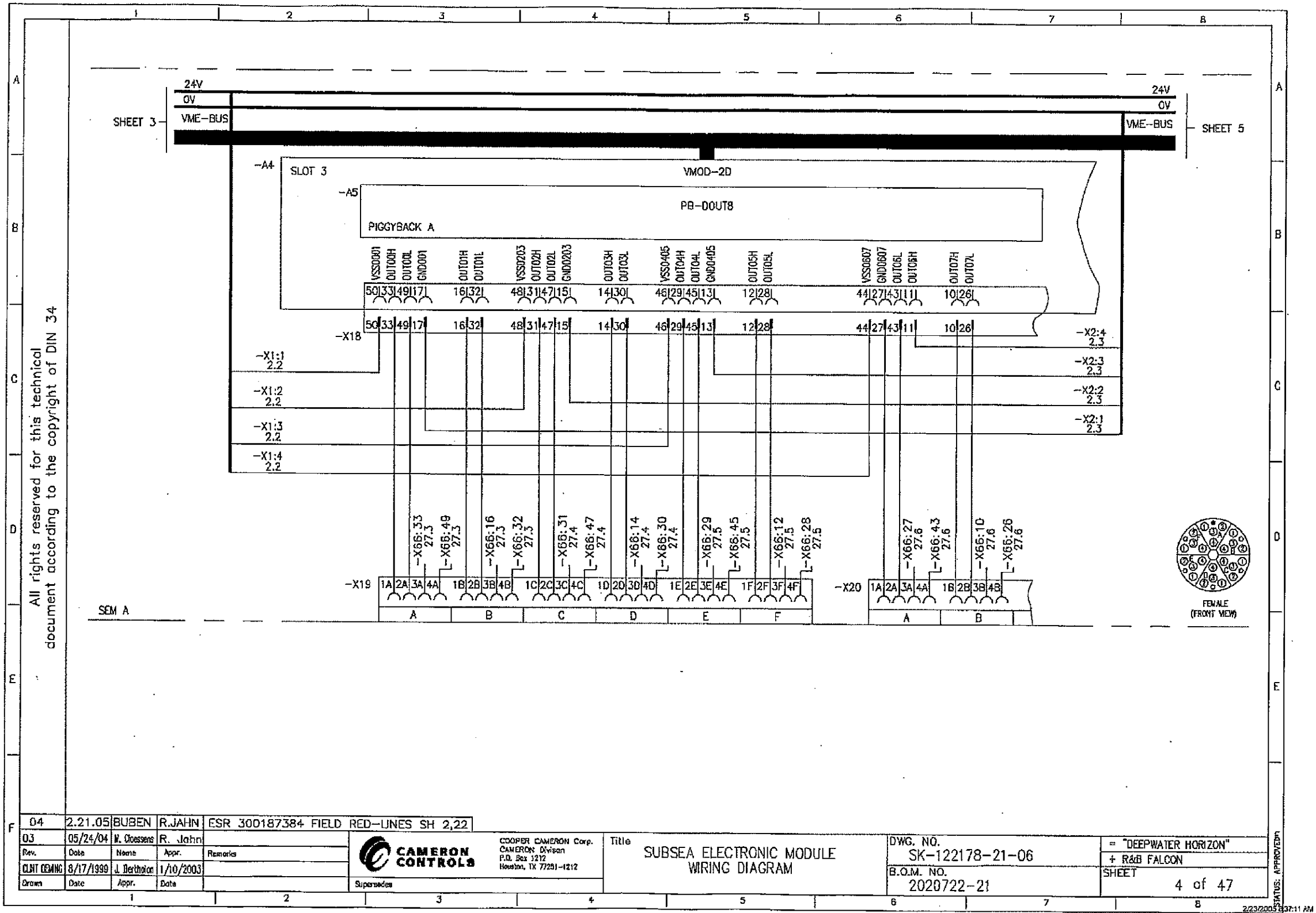
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TRN-MDL-00304716

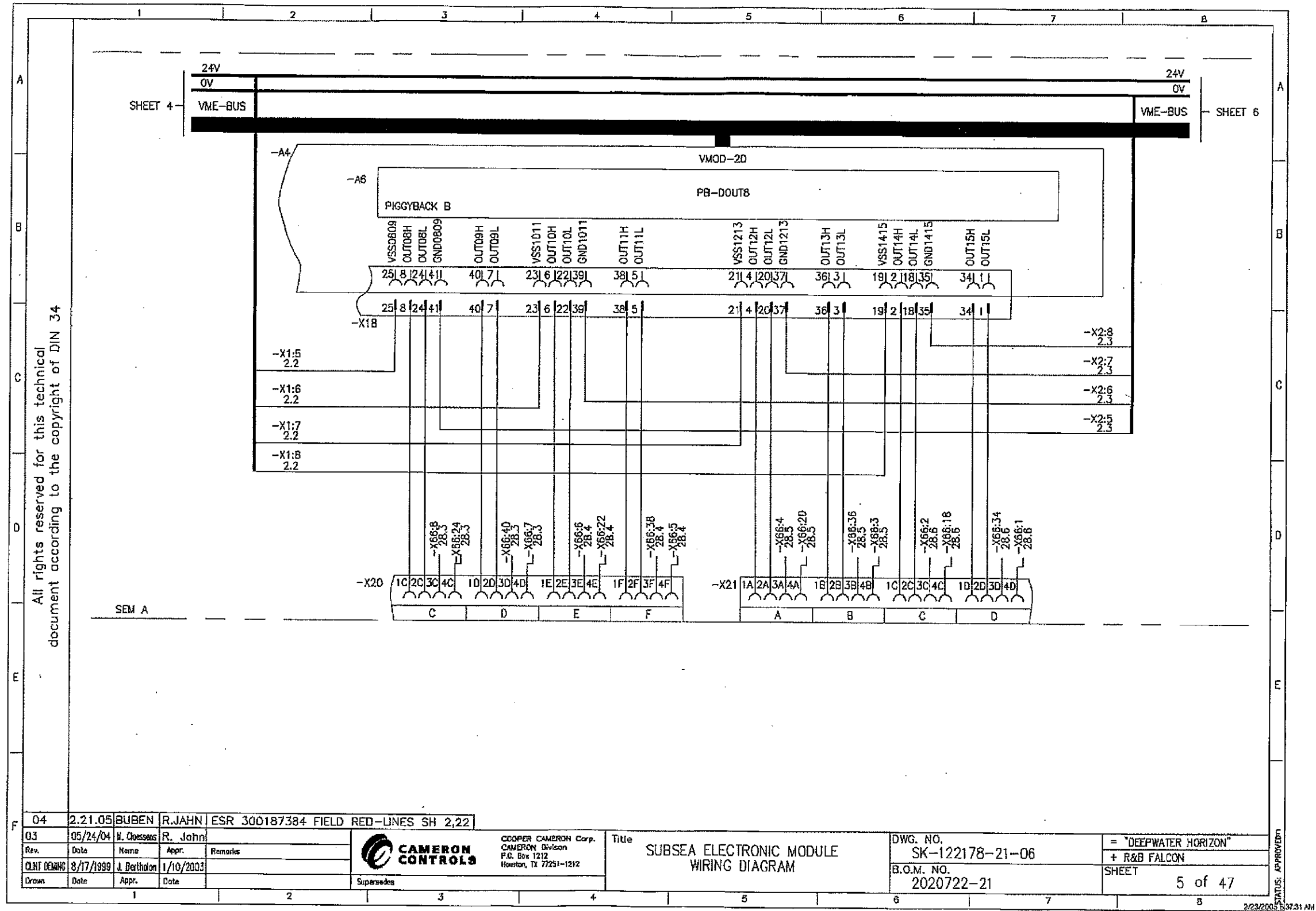
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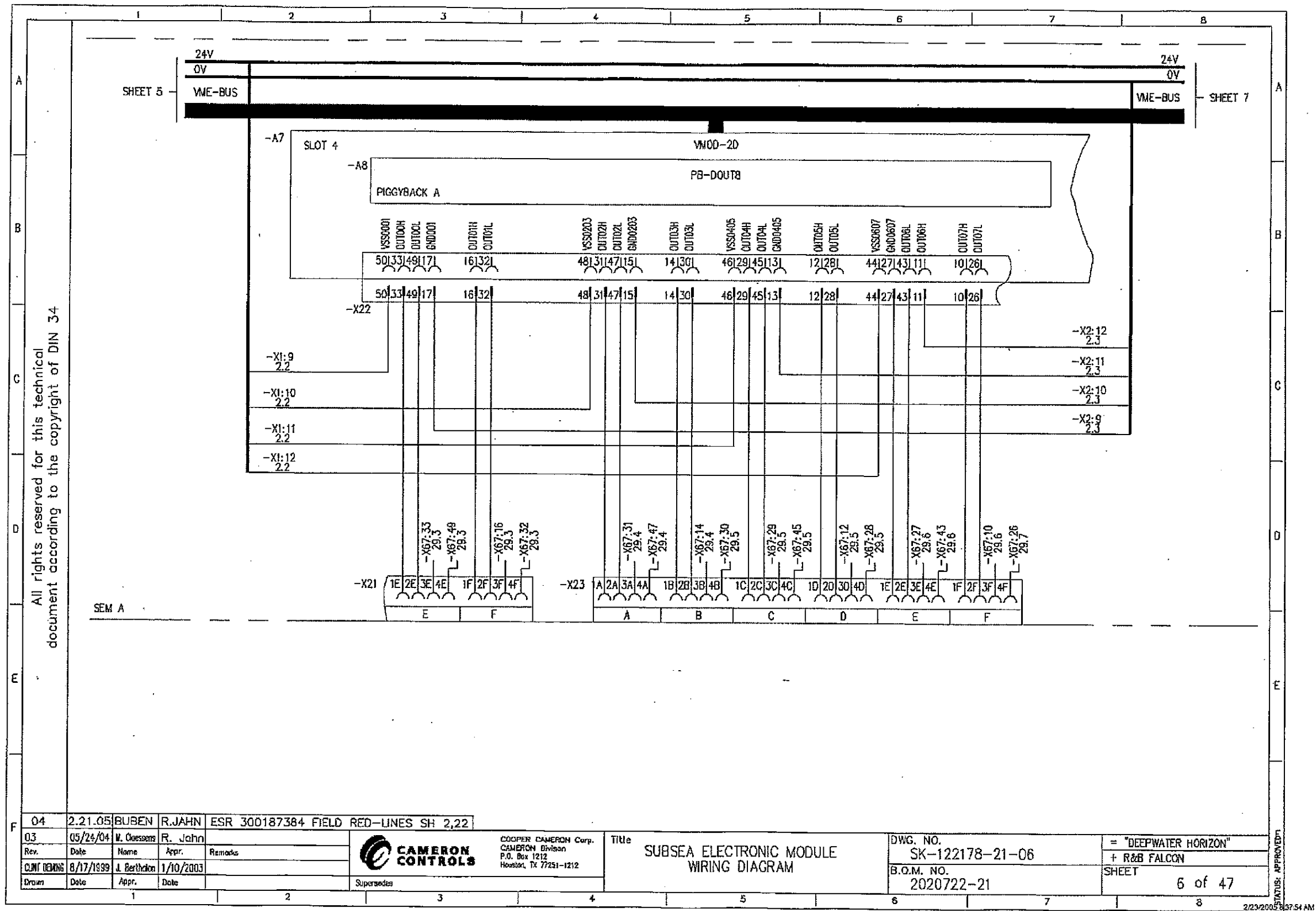
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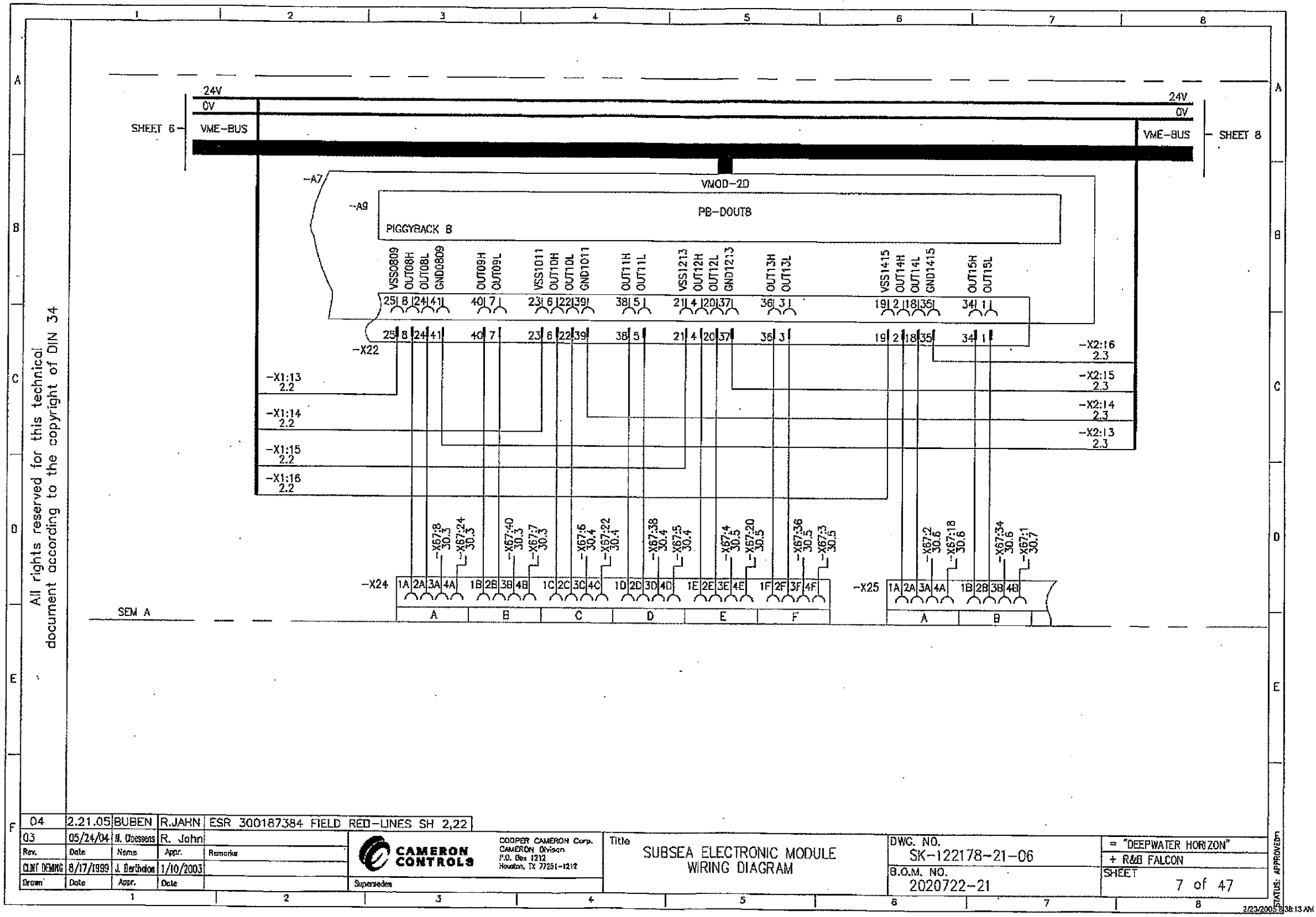
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04	2.21.05	BUBEN	R.JAHN	ESR 300187384 FIELD RED-LINES SH 2,22
03	05/24/04	M. Oessens	R. Jahn	
Rev.	Date	Name	Appr.	Remarks
Drawn	8/17/1999	J. Berthoud	1/10/2003	
Date	Appr.	Date		



COOPER CAMERON Corp.
CAMERON Division
P.O. Box 1212
Houston, TX 77251-1212

Title
SUBSEA ELECTRONIC MODULE
WIRING DIAGRAM

DWG. NO.
SK-122178-21-06
B.O.M. NO.
2020722-21

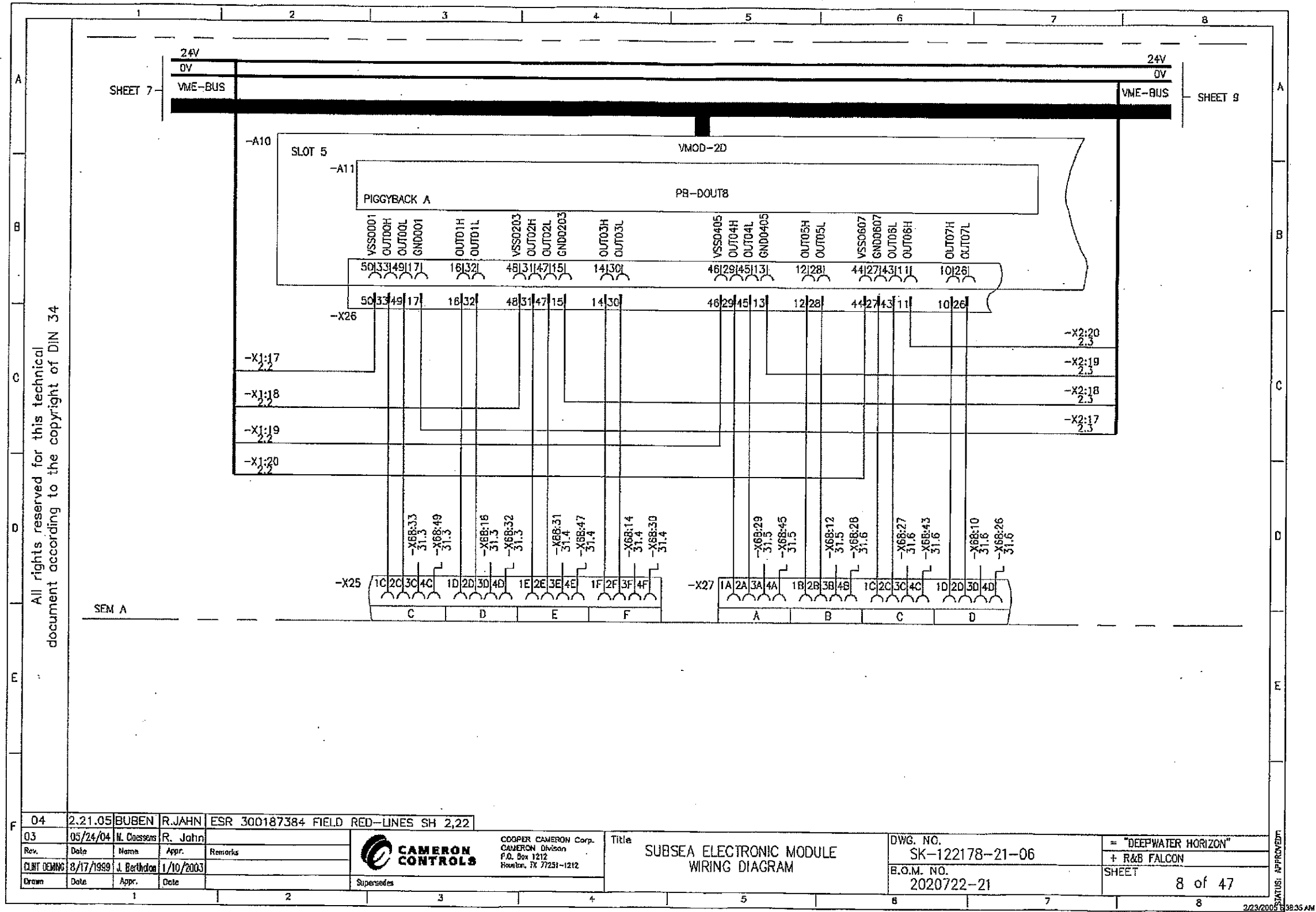
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+ R&B FALCON
SHEET
7 of 47

STATUS: APPROVED

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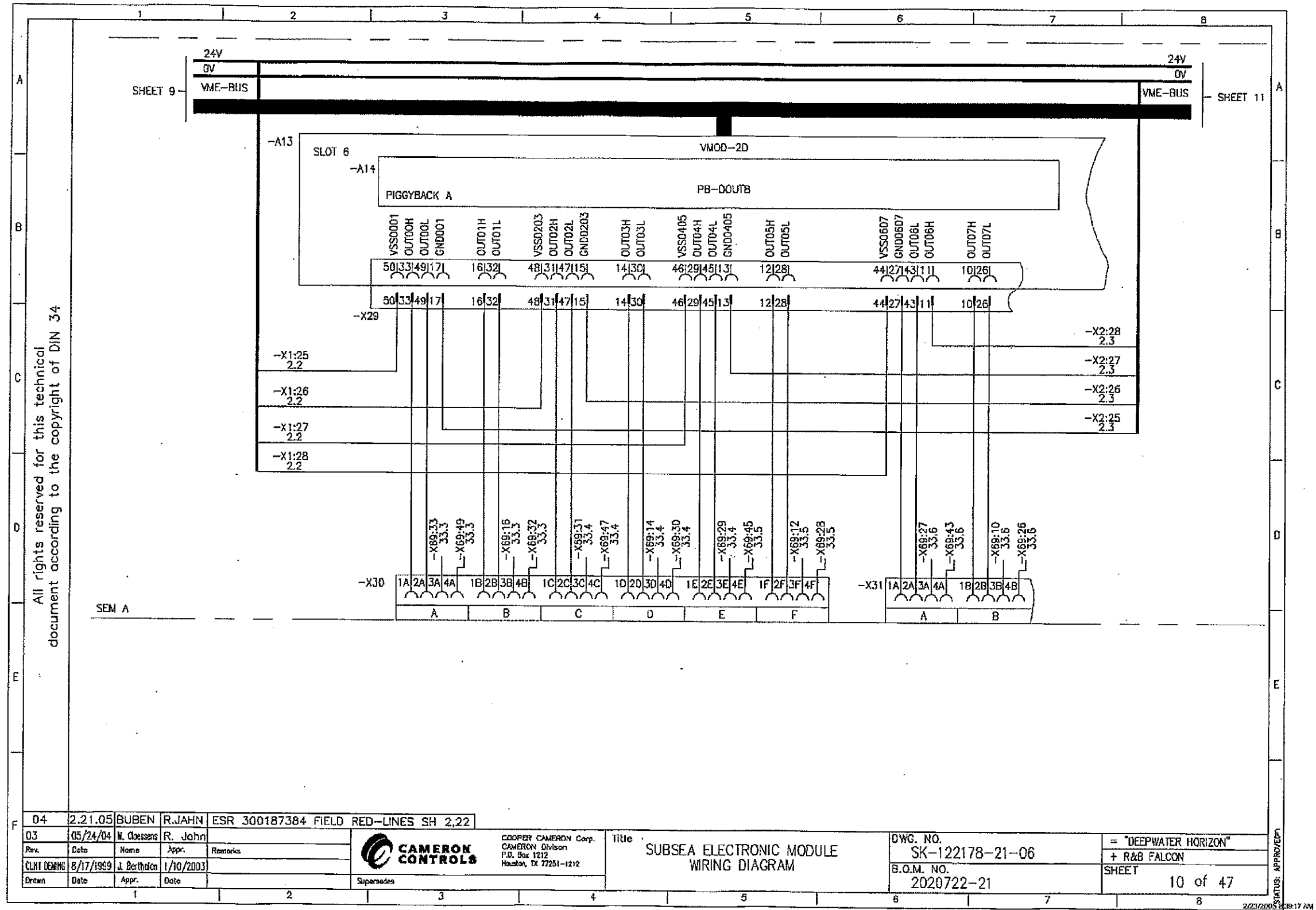


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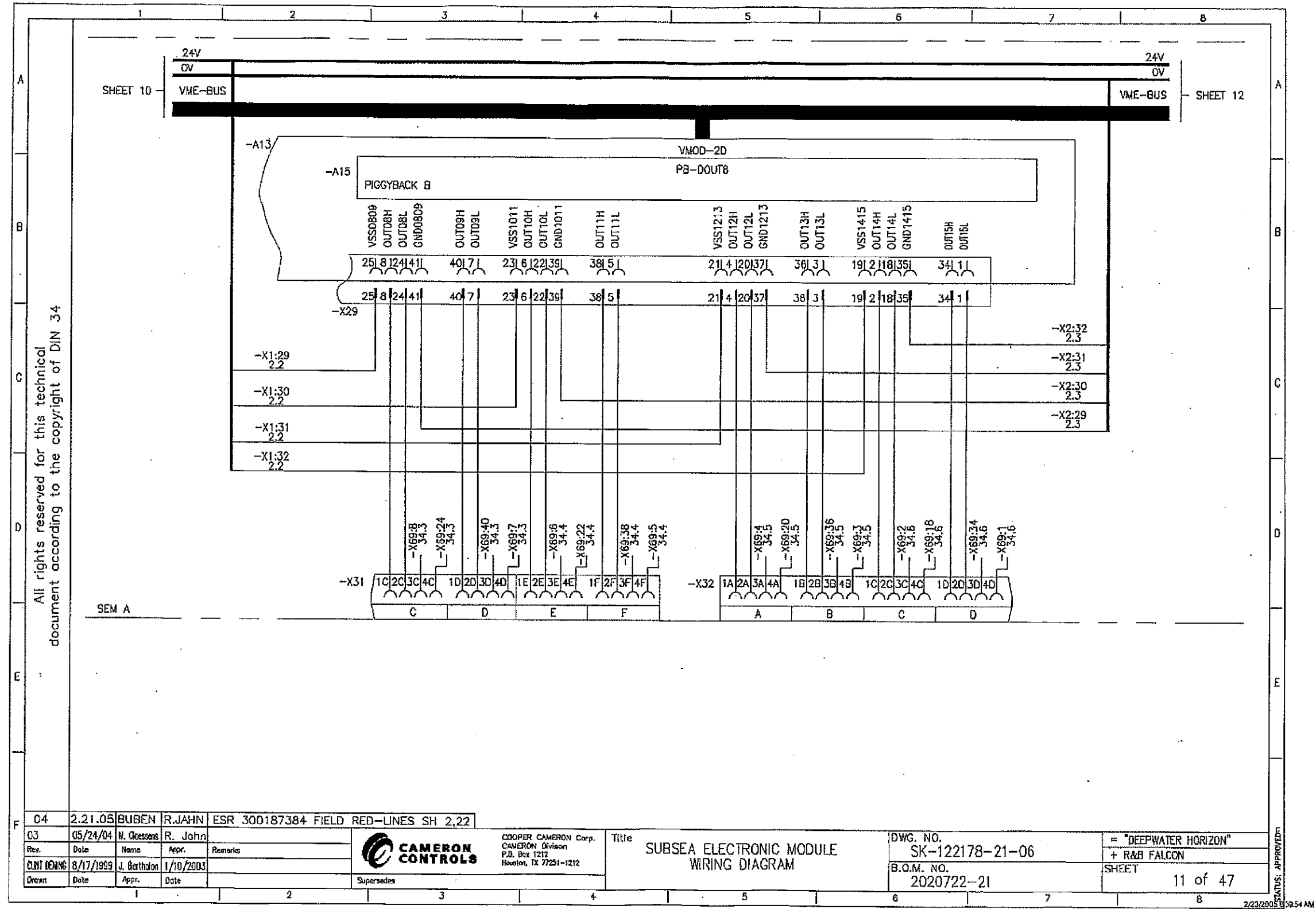


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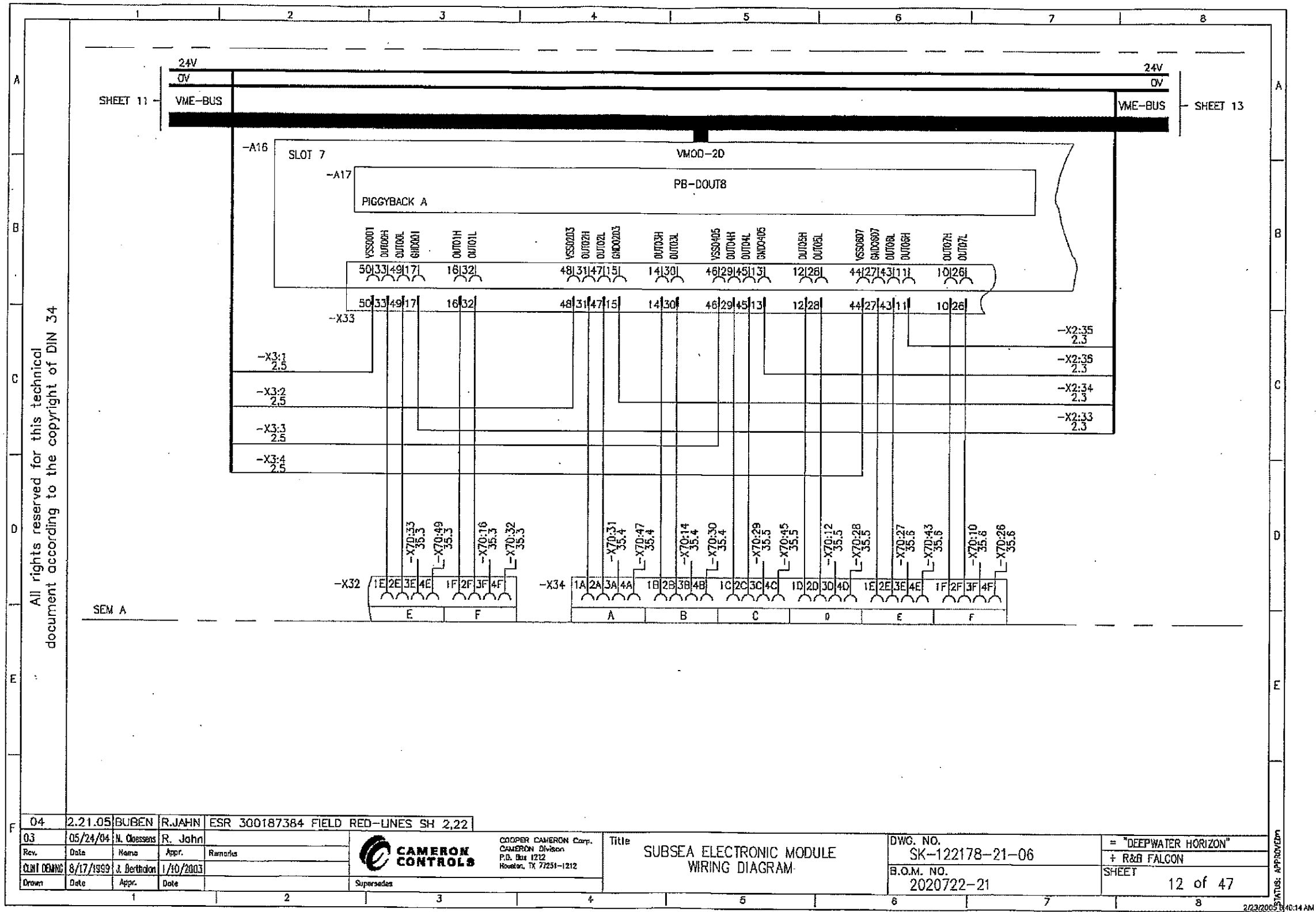
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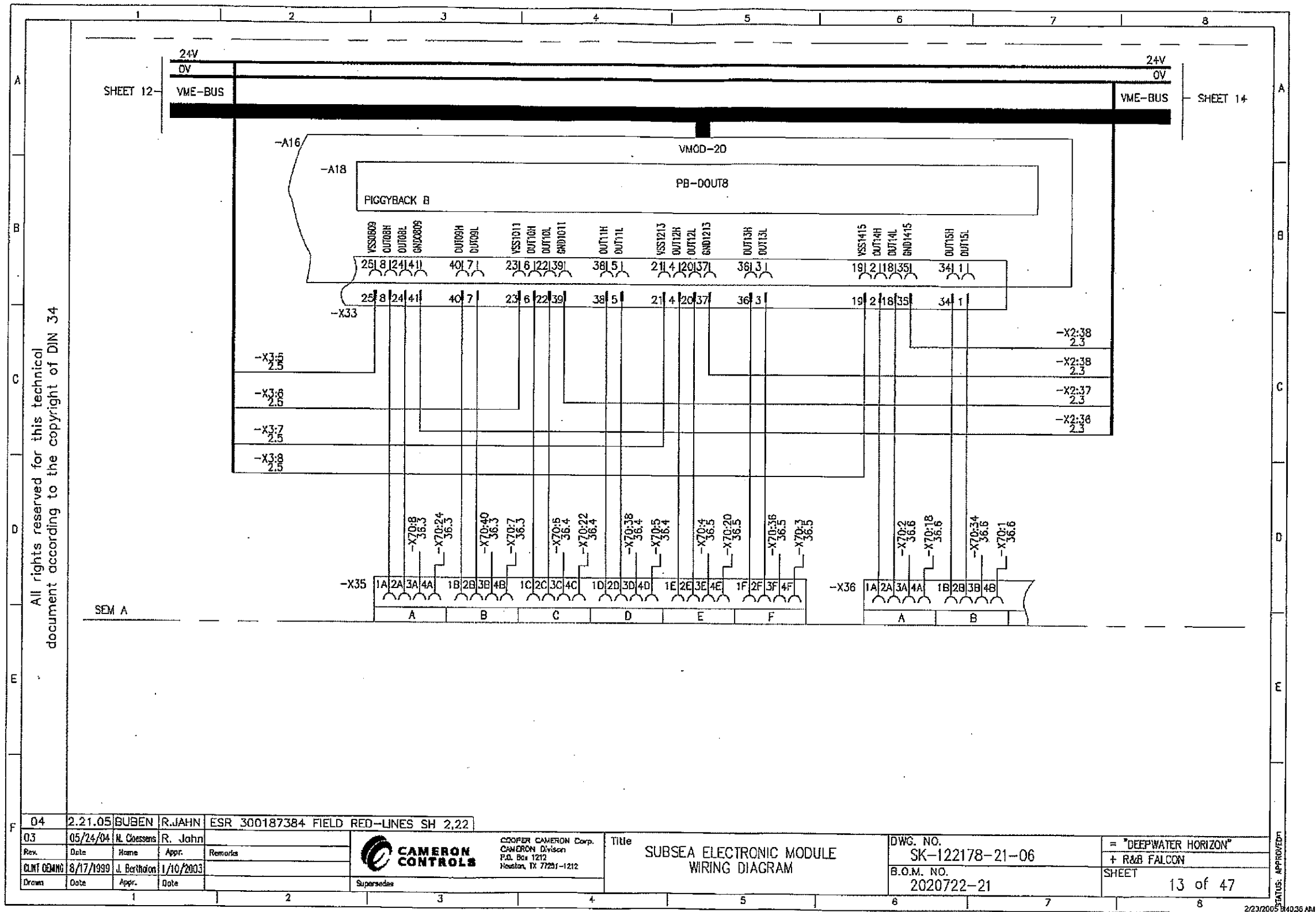


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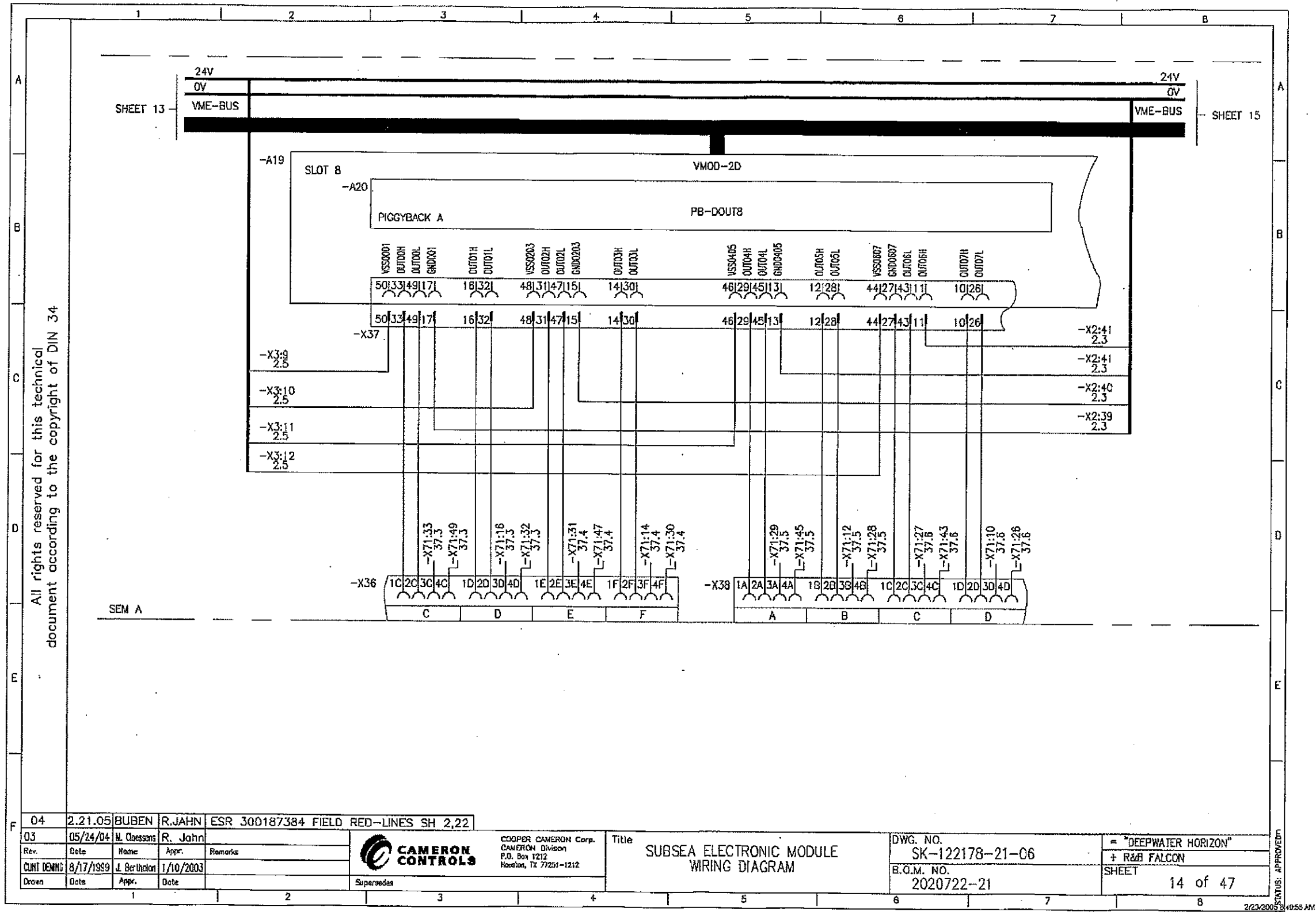
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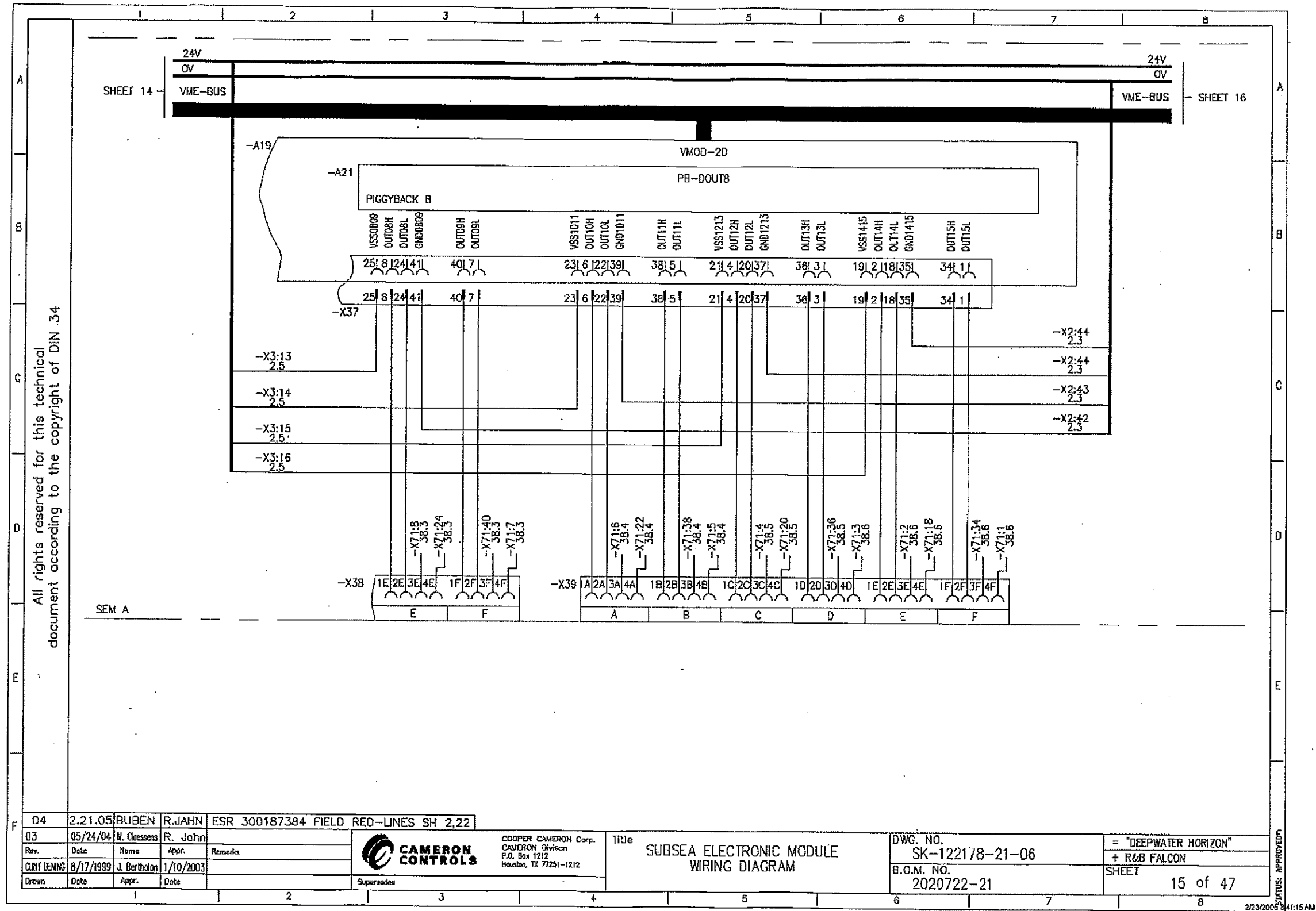
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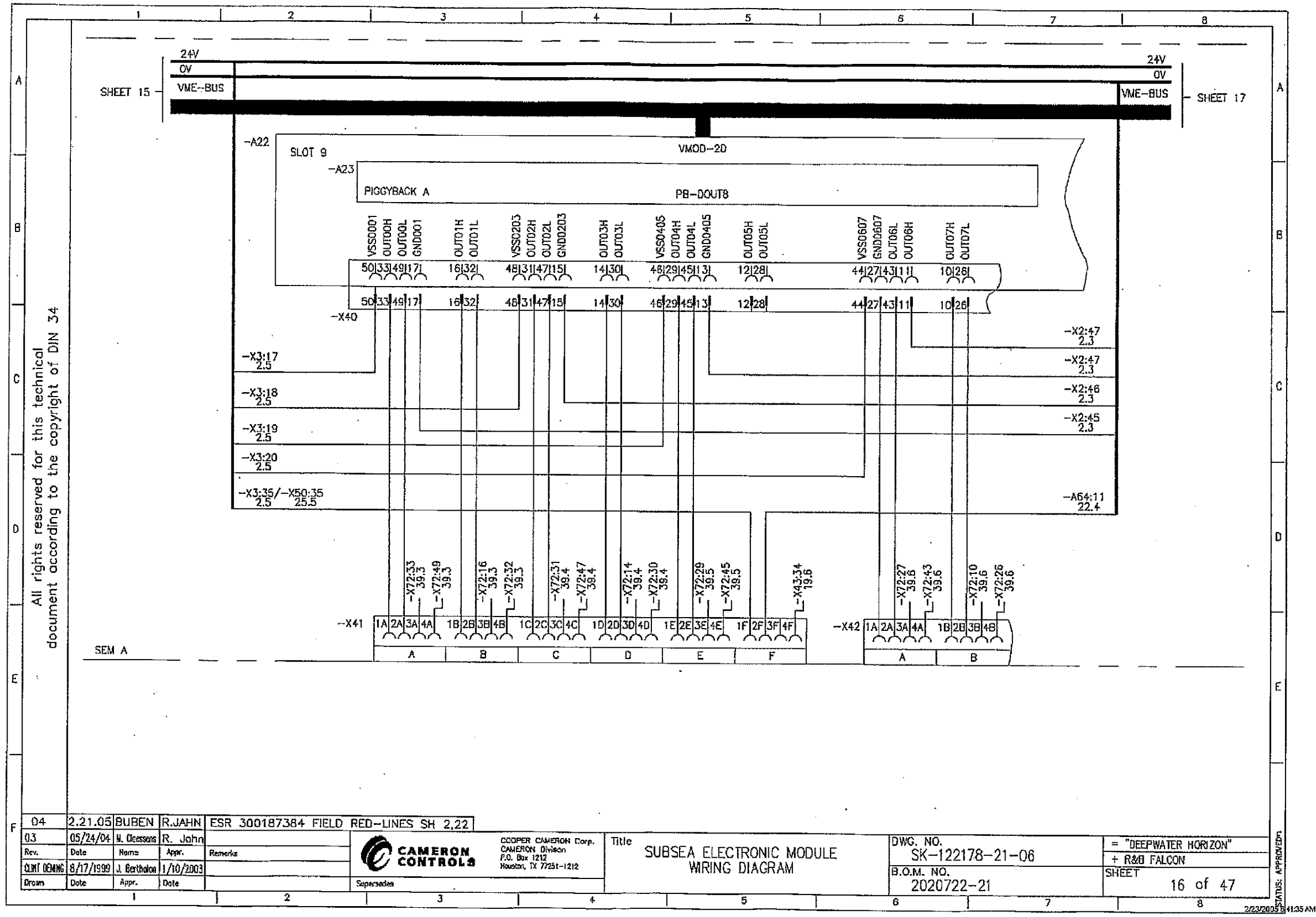
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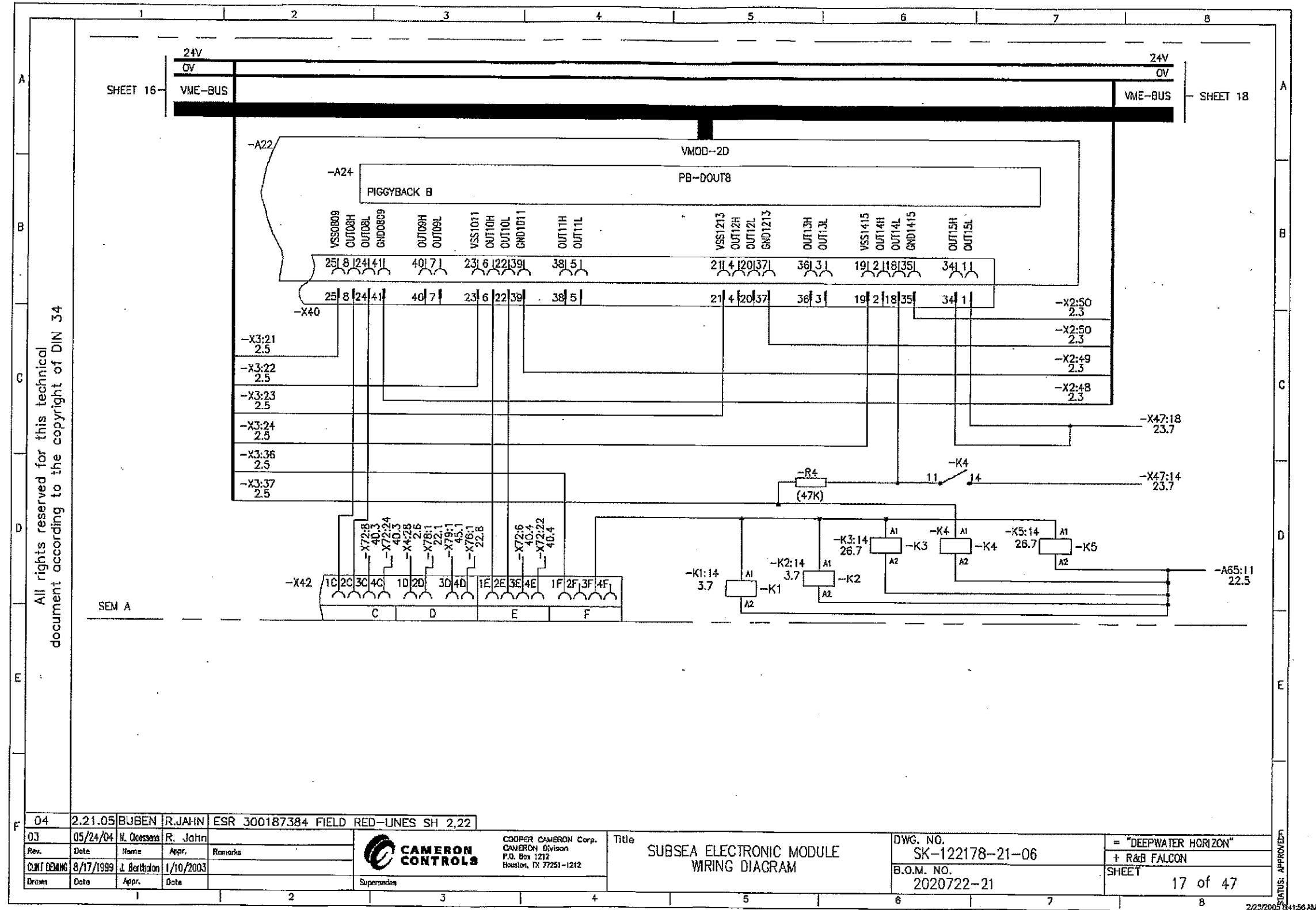
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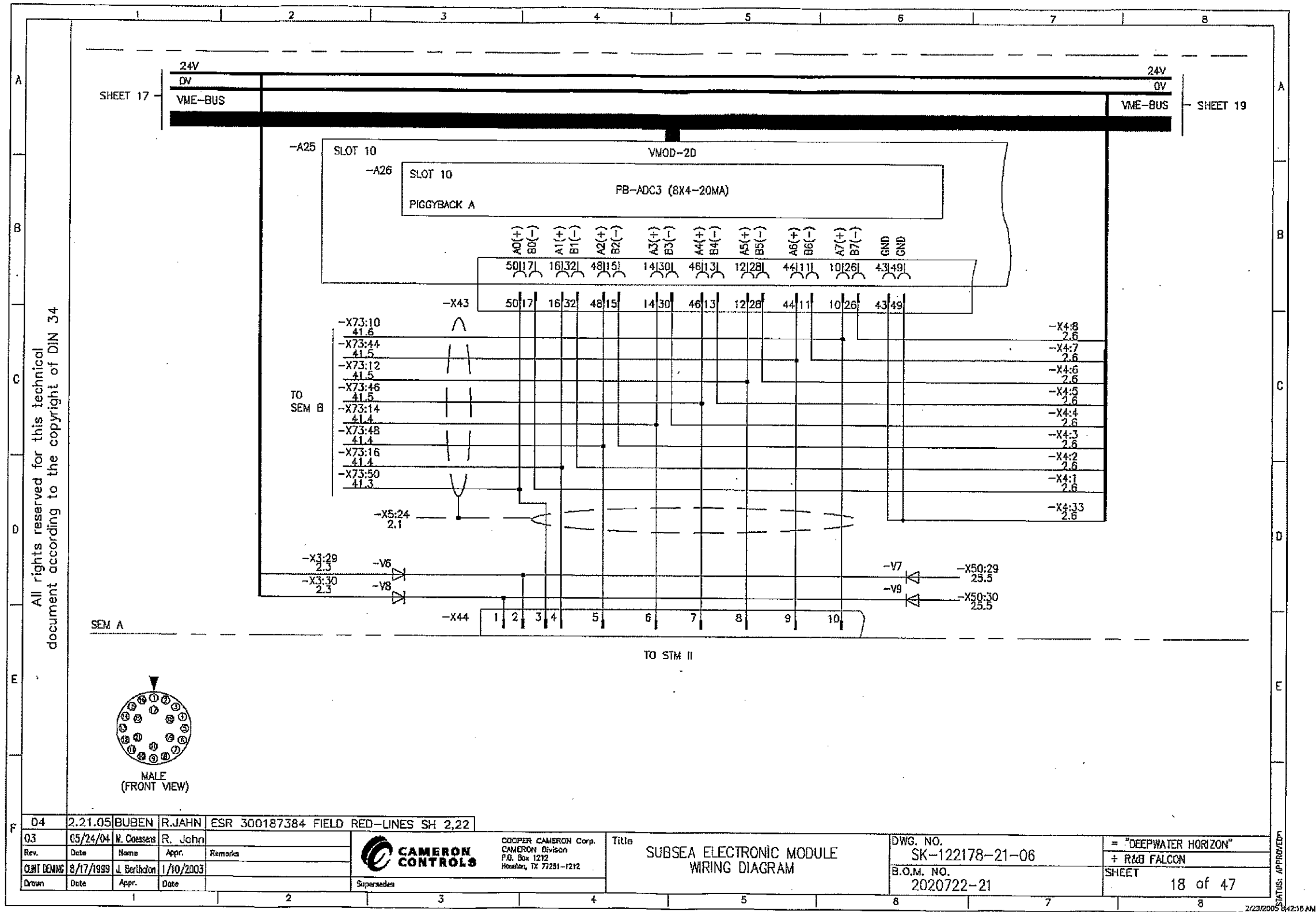
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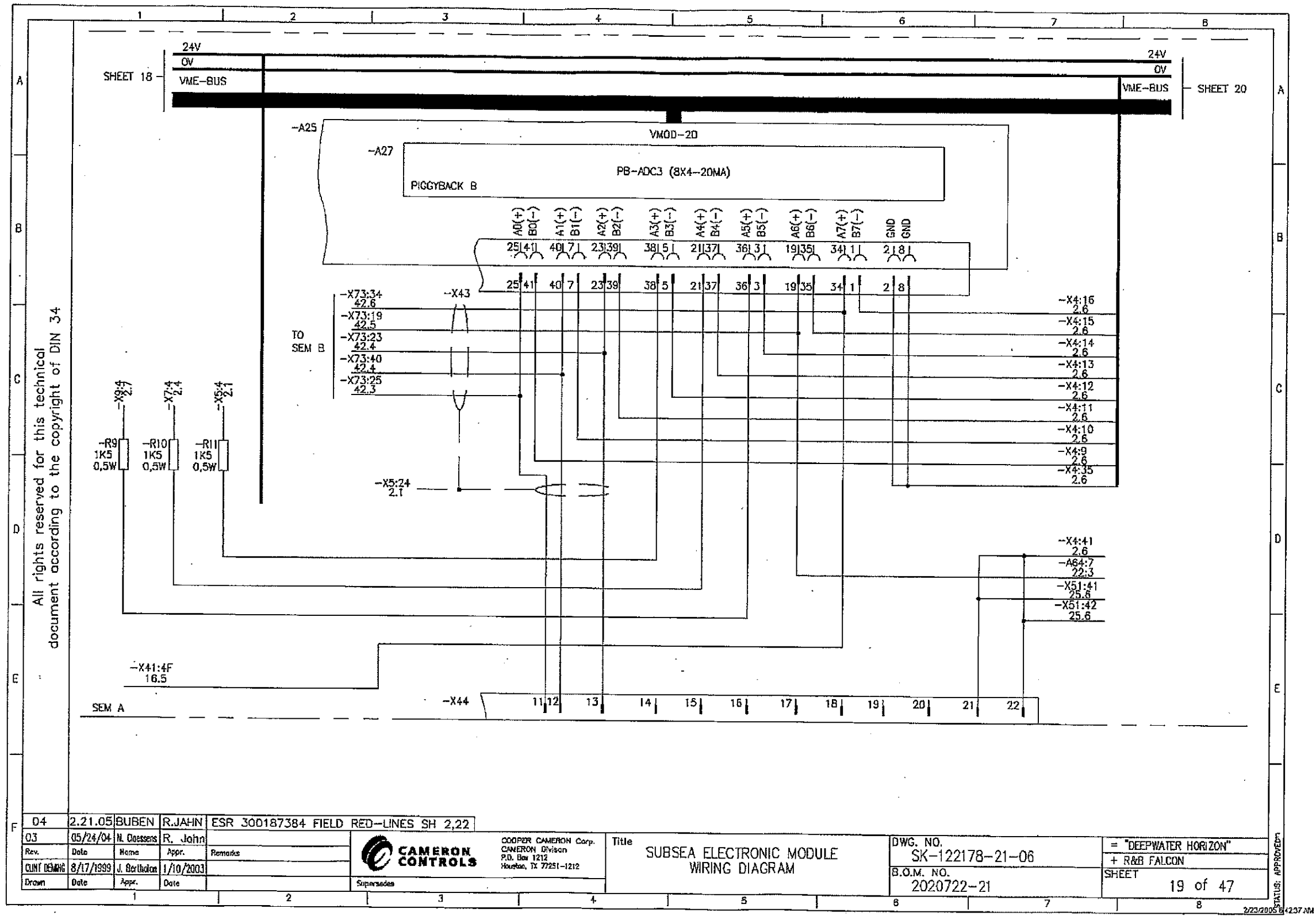
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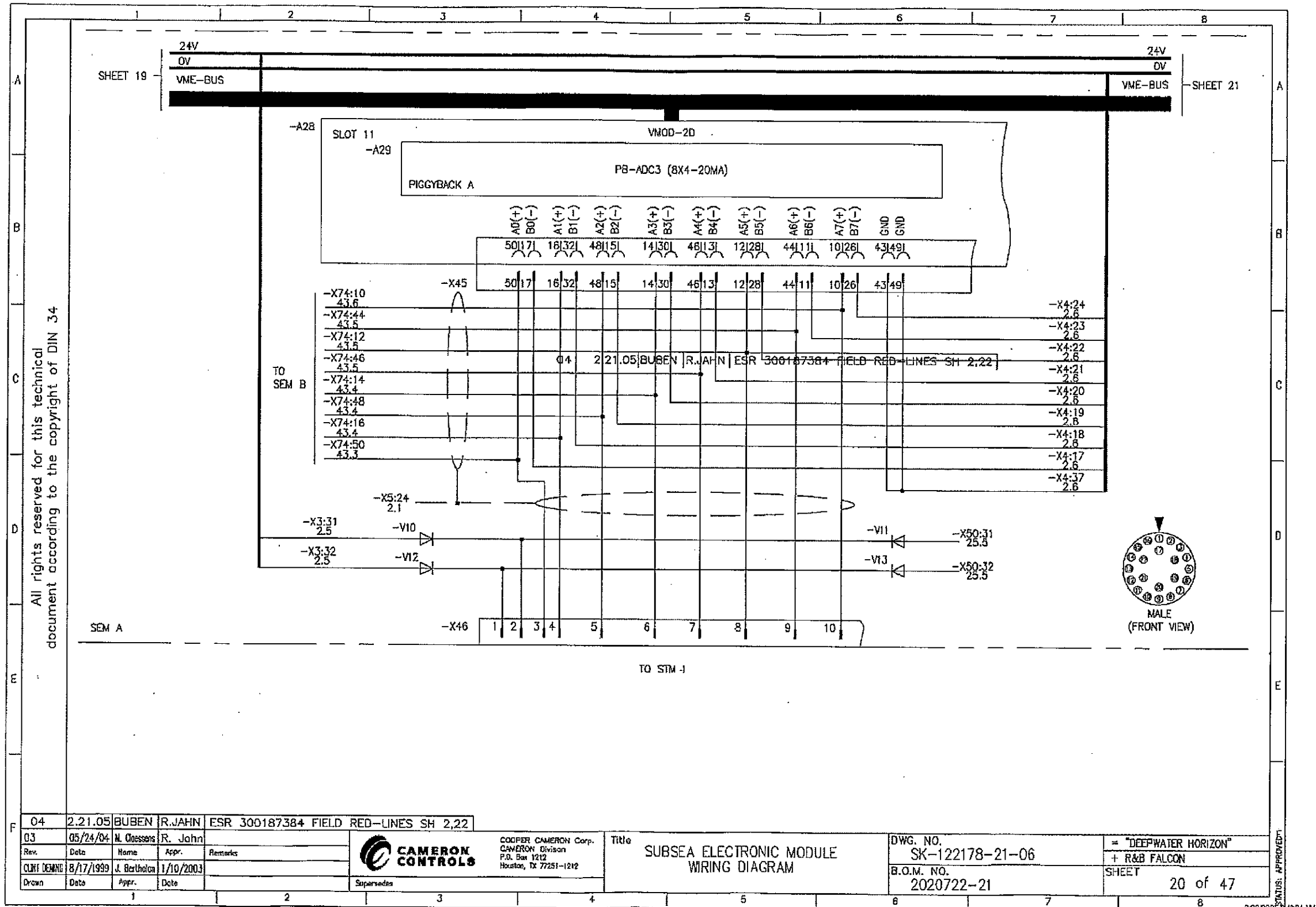
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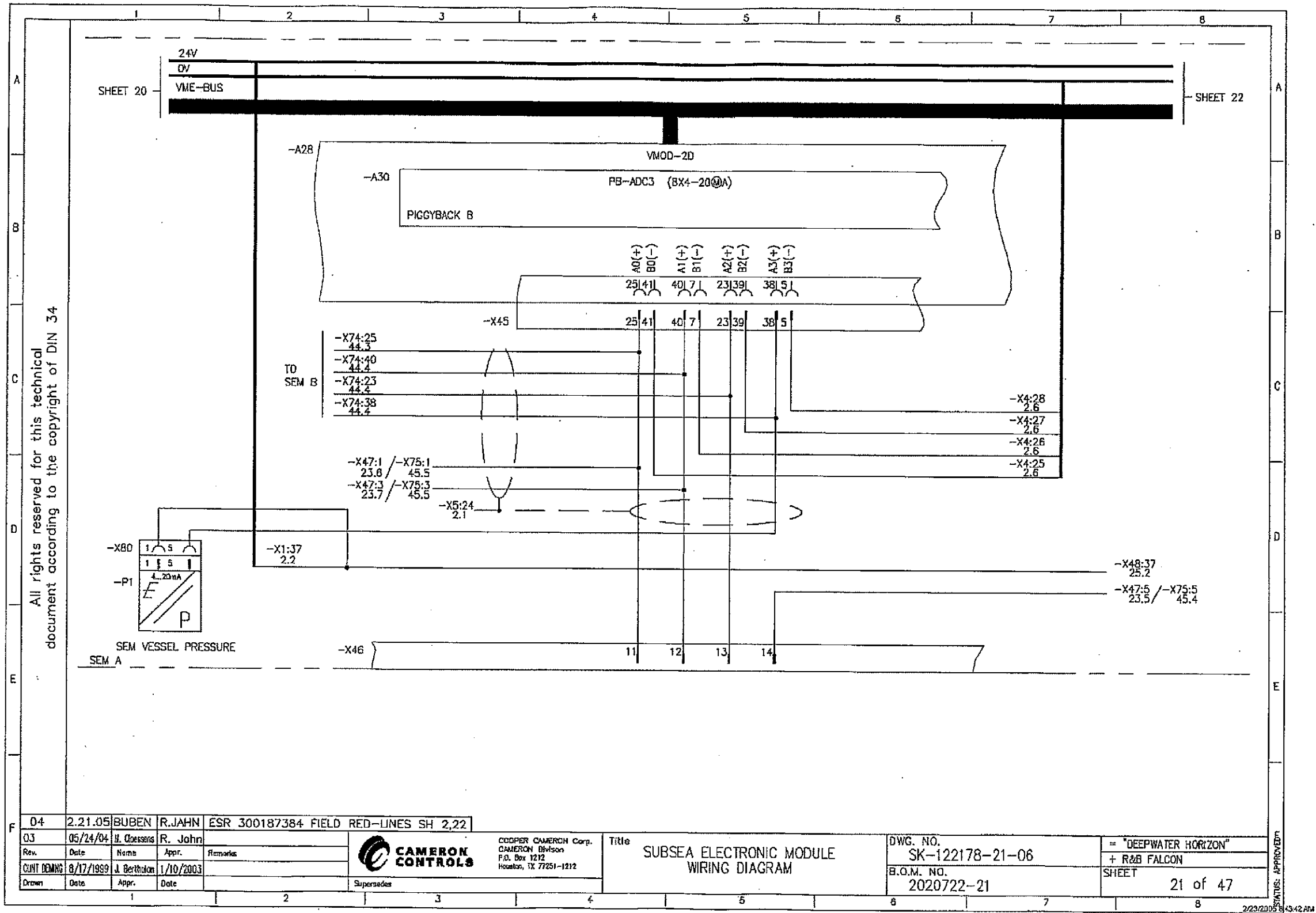
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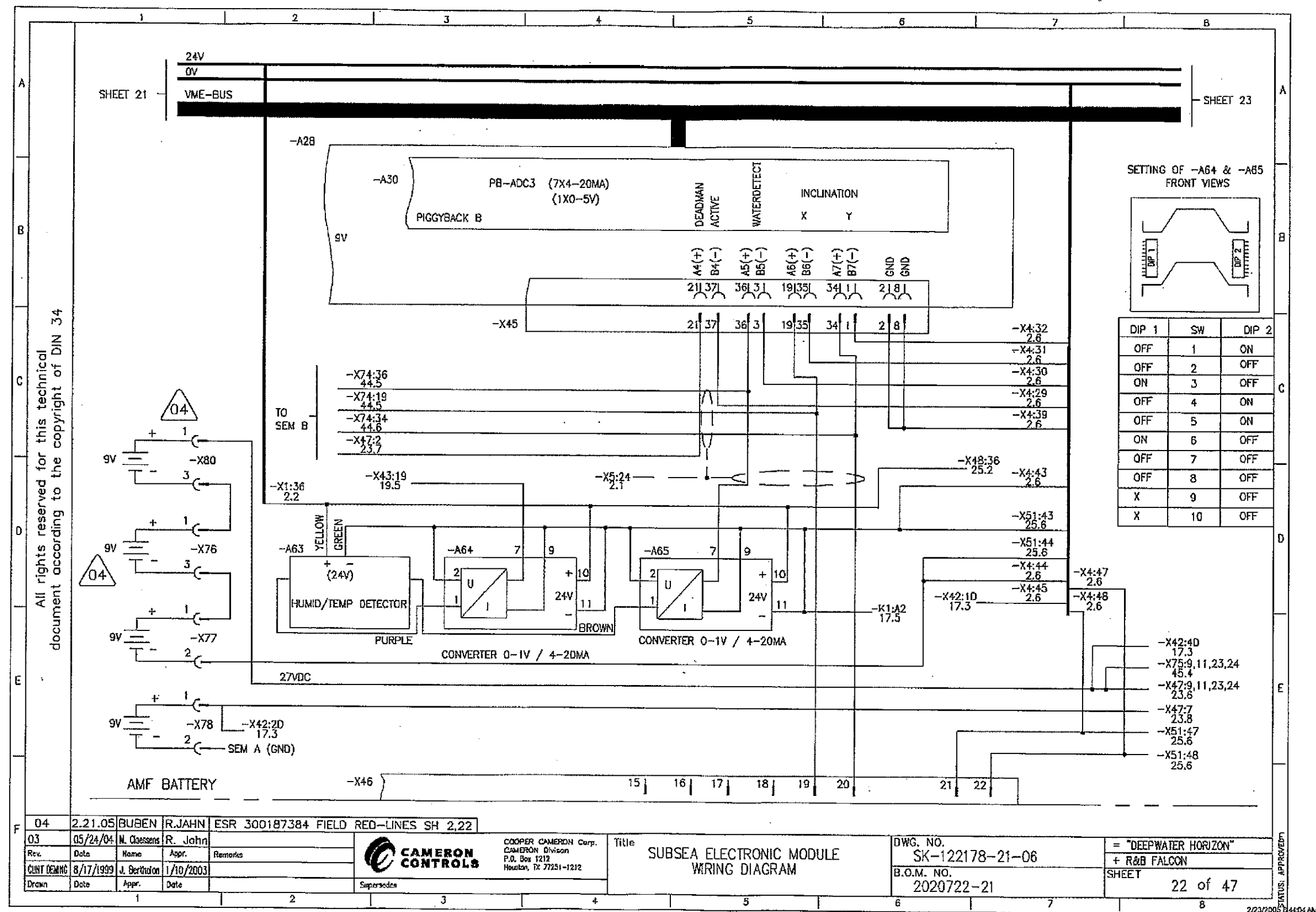
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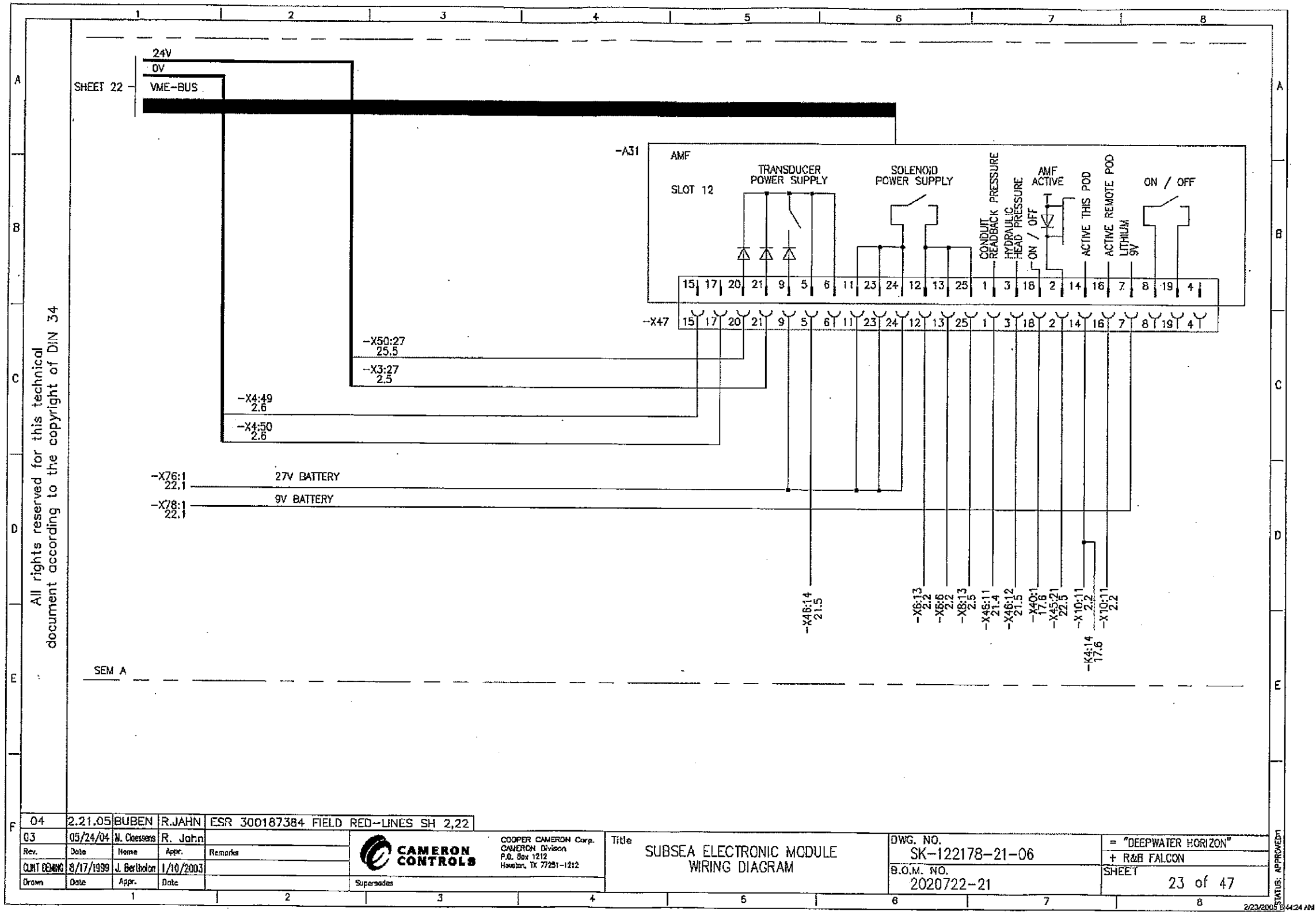


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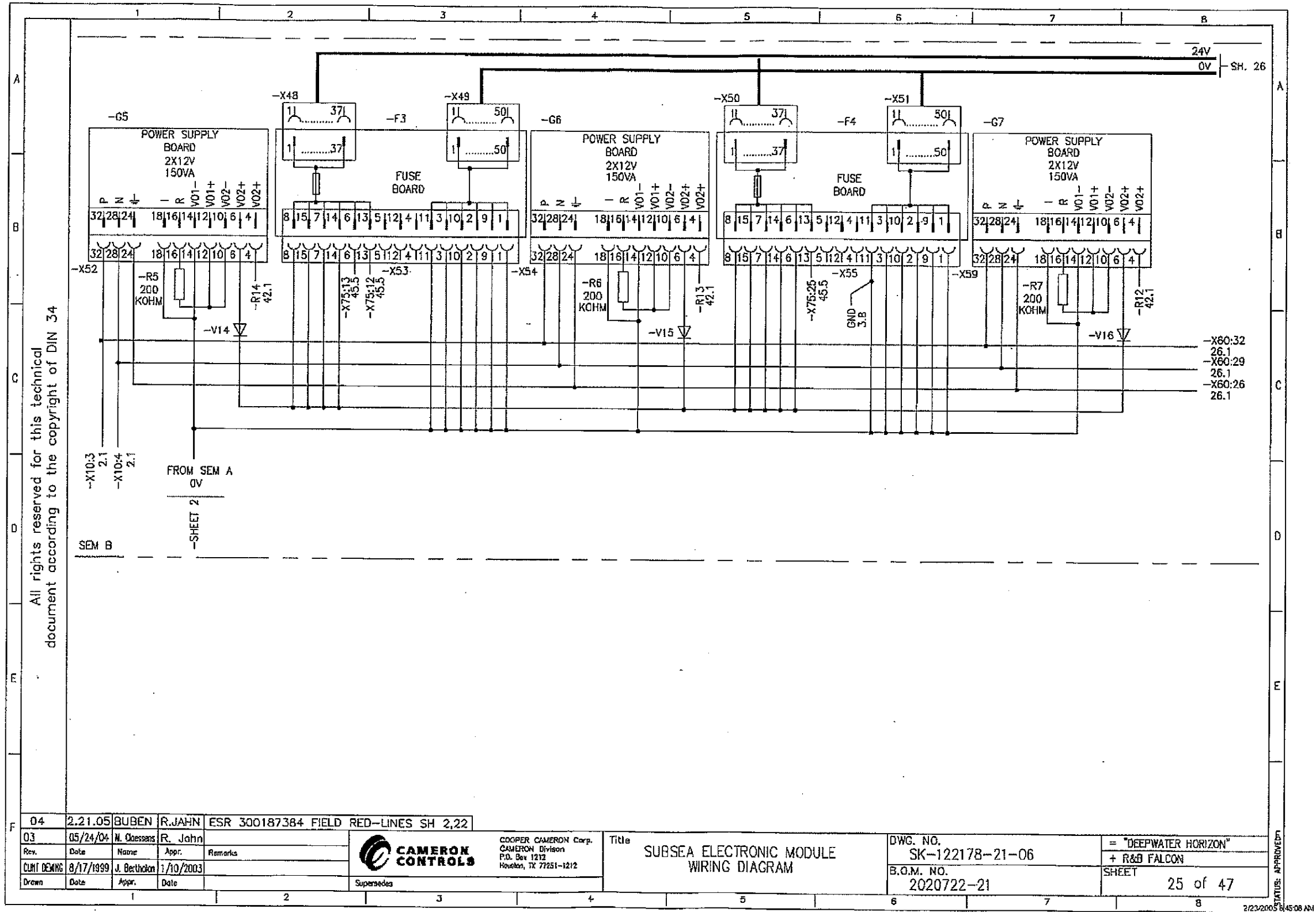
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A	<div>SHEET 23</div> <div>24V 0V VME-BUS</div> <div>24V 0V VME-BUS</div>																																															
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C	THIS PAGE HAS BEEN INTENTIONALLY LEFT BLANK																																															
D	SEM B																																															
E																																																
F	<table border="1"><tr><td>04</td><td>2.21.05</td><td>BUBEN</td><td>R.JAHN</td><td colspan="4">ESR 300187384 FIELD RED~LINES SH 2,22</td></tr><tr><td>03</td><td>05/24/04</td><td>M. Claessens</td><td>R. Jahn</td><td colspan="4"></td></tr><tr><td>Rev.</td><td>Date</td><td>Name</td><td>Appr.</td><td colspan="4">Remarks</td></tr><tr><td>001</td><td>08/17/1999</td><td>J. Berthodan</td><td>1/10/2003</td><td colspan="4"></td></tr><tr><td>Drawn</td><td>Date</td><td>Appr.</td><td>Date</td><td colspan="4">Superseded</td></tr></table> <div><div>COOPER CAMERON Corp. CAMERON Division P.O. Box 1212 Houston, TX 77251-1212</div></div> <div>Title SUBSEA ELECTRONIC MODULE WIRING DIAGRAM</div> <div>DWG. NO. SK-122178-21-06</div> <div>B.C.M. NO. 2020722-21</div> <div>= "DEEPWATER HORIZON" + R&B FALCON SHEET 24 of 47</div>								04	2.21.05	BUBEN	R.JAHN	ESR 300187384 FIELD RED~LINES SH 2,22				03	05/24/04	M. Claessens	R. Jahn					Rev.	Date	Name	Appr.	Remarks				001	08/17/1999	J. Berthodan	1/10/2003					Drawn	Date	Appr.	Date	Superseded			
04	2.21.05	BUBEN	R.JAHN	ESR 300187384 FIELD RED~LINES SH 2,22																																												
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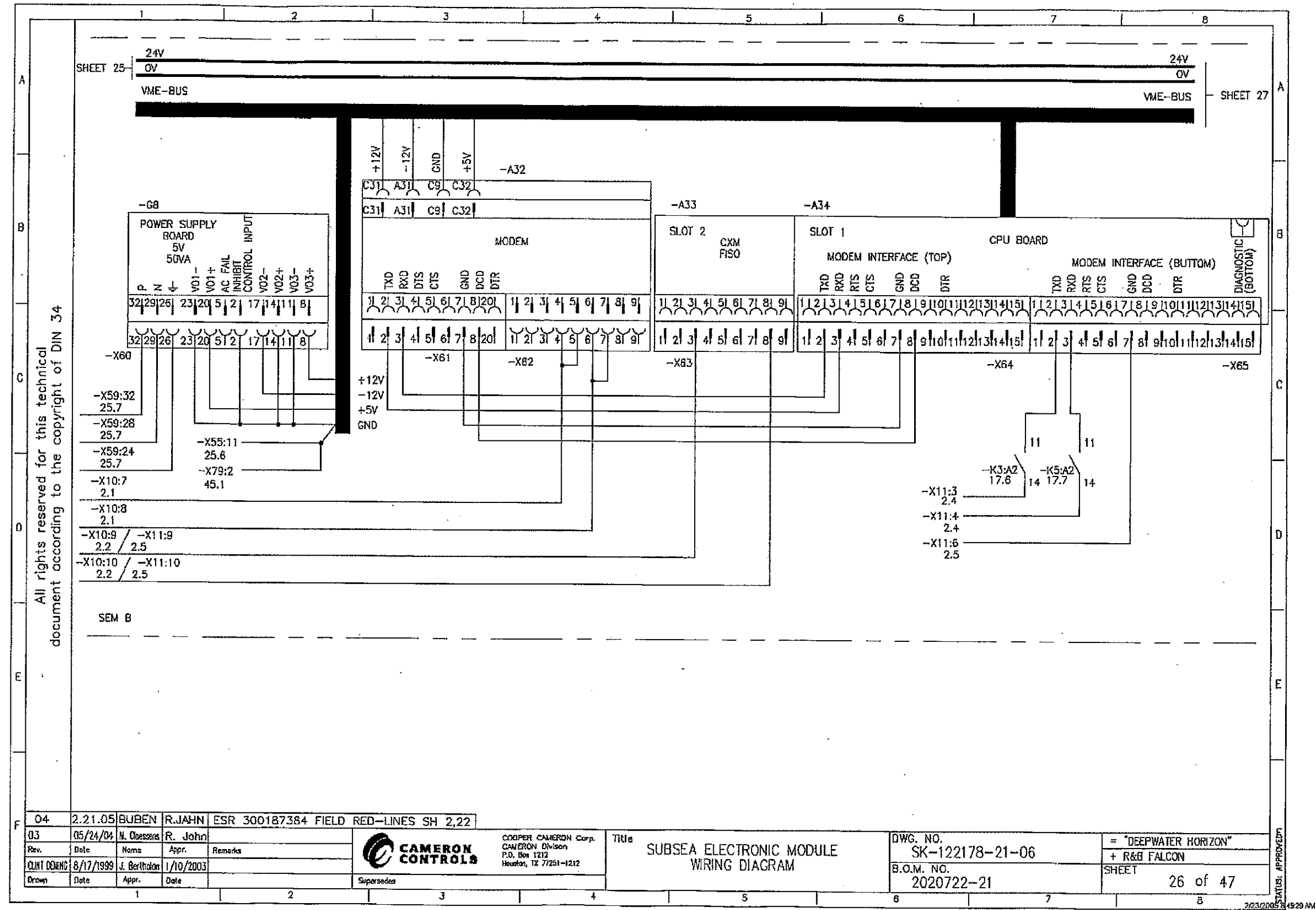
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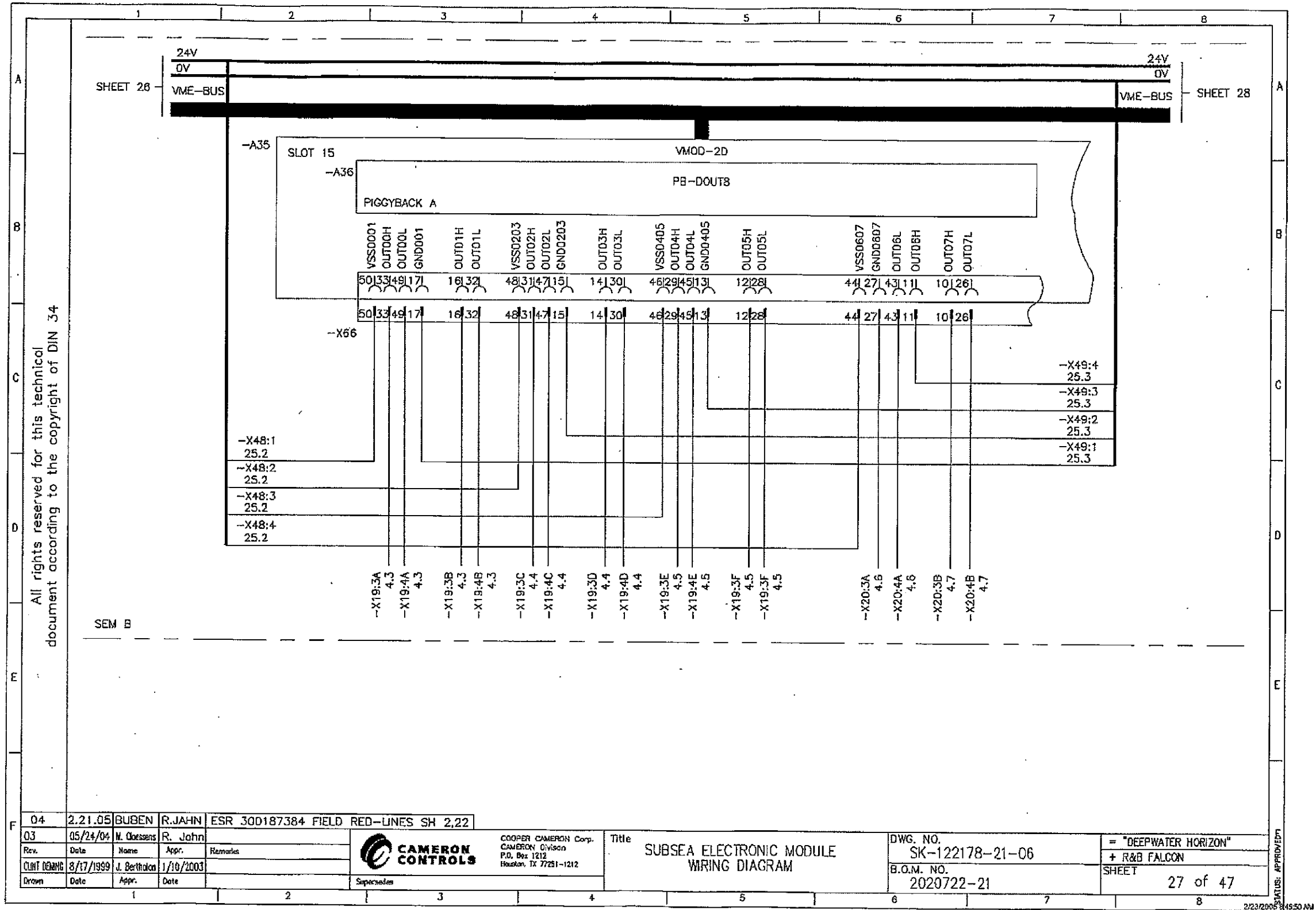


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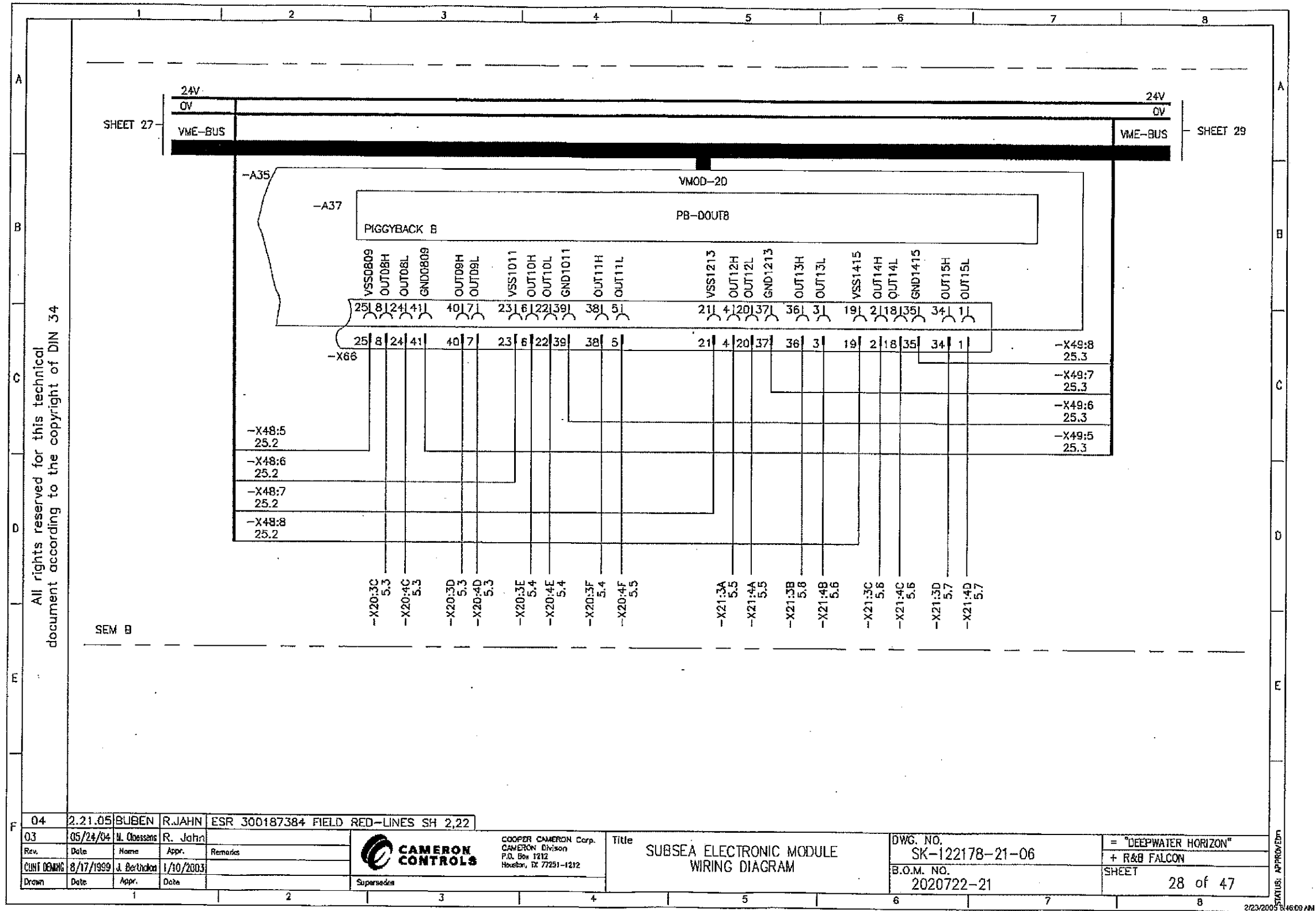
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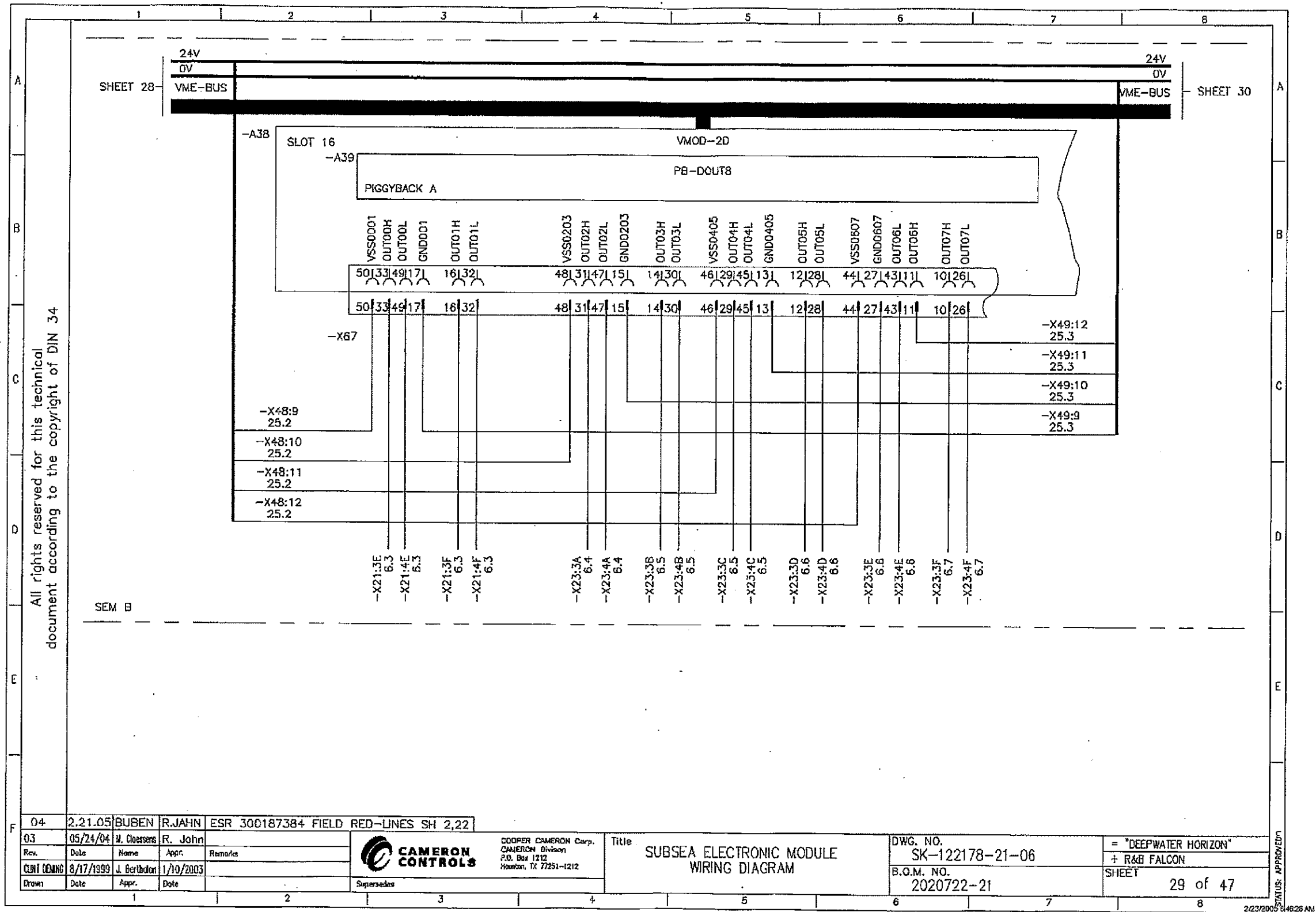
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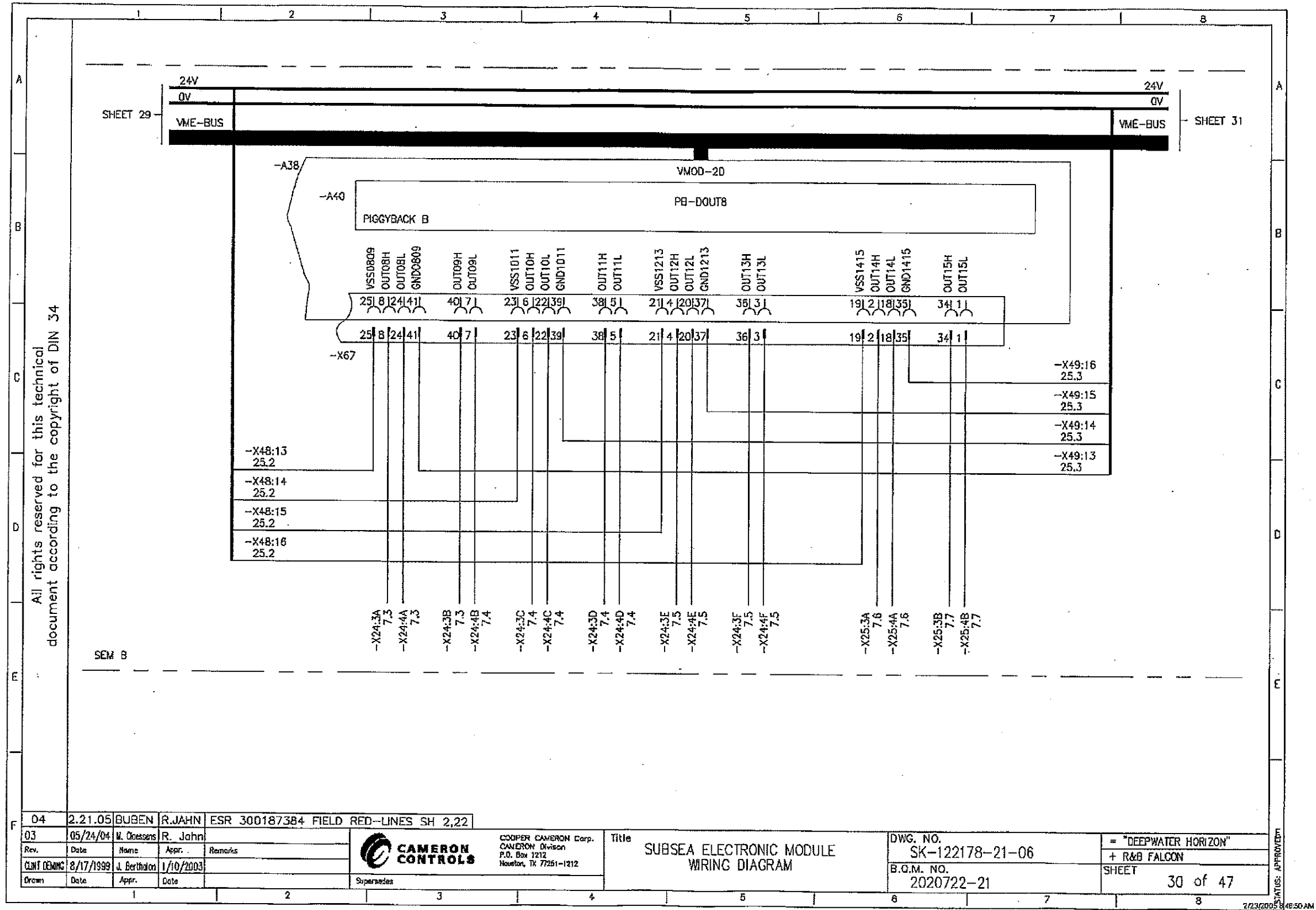
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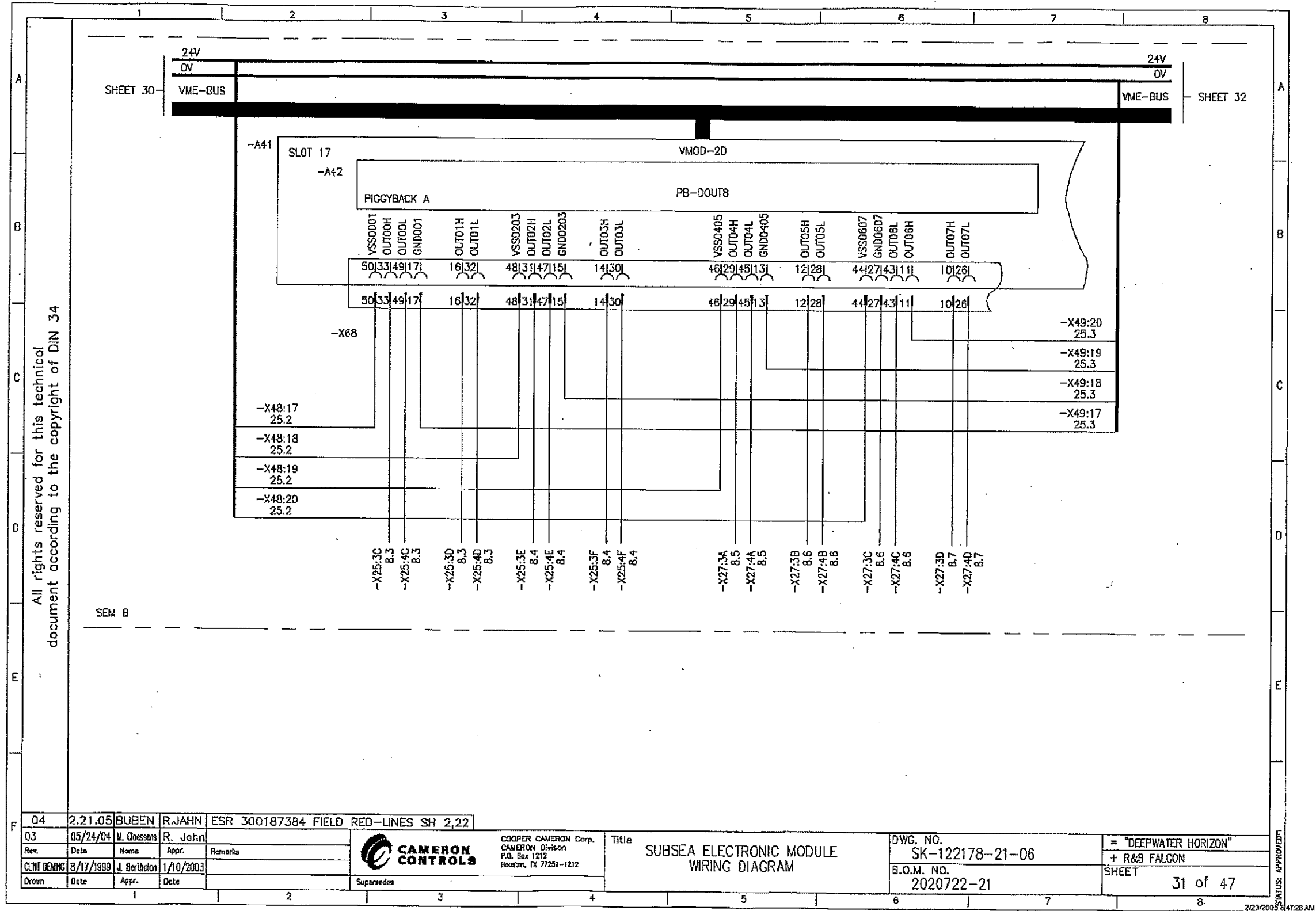


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04	2.21.05	BUBEN	R. JAHN	ESR 300187384 FIELD RED-LINES SH 2,22
03	05/24/04	M. Claessens	R. John	
Rev.	Date	Name	Appr.	Remarks
CLINT DENING	8/17/1999	J. Bertholon	1/10/2003	
Drawn	Date	Appr.	Date	



COOPER CAMERON Corp.
CAMERON Division
P.O. Box 1212
Houston, TX 77251-1212

Title
SUBSEA ELECTRONIC MODULE
WIRING DIAGRAM

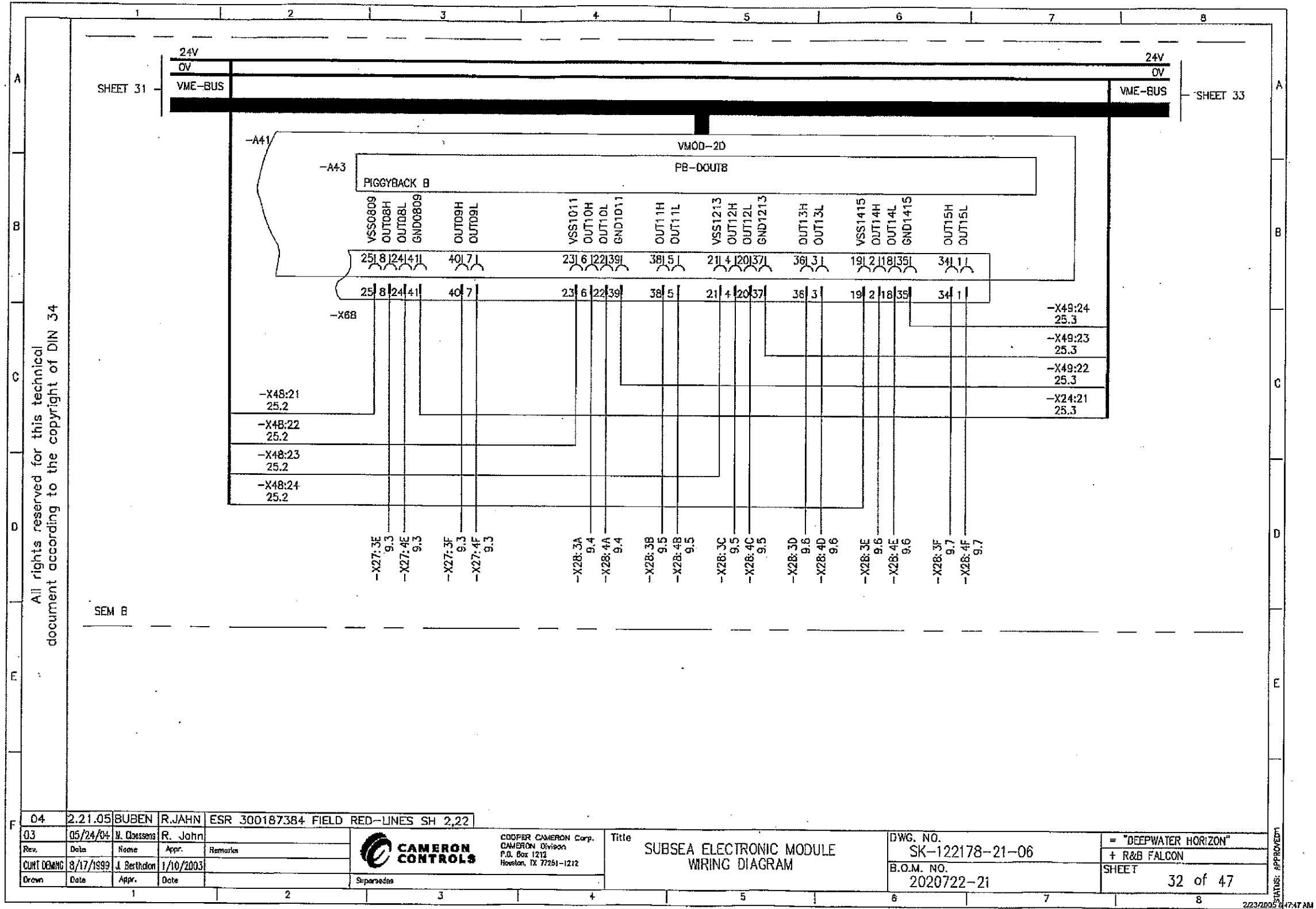
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SK-122178-21-06
B.O.M. NO.
2020722-21

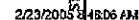
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+ R&B FALCON
SHEET
31 of 47

STATUS: APPROVED

CONFIDENTIAL

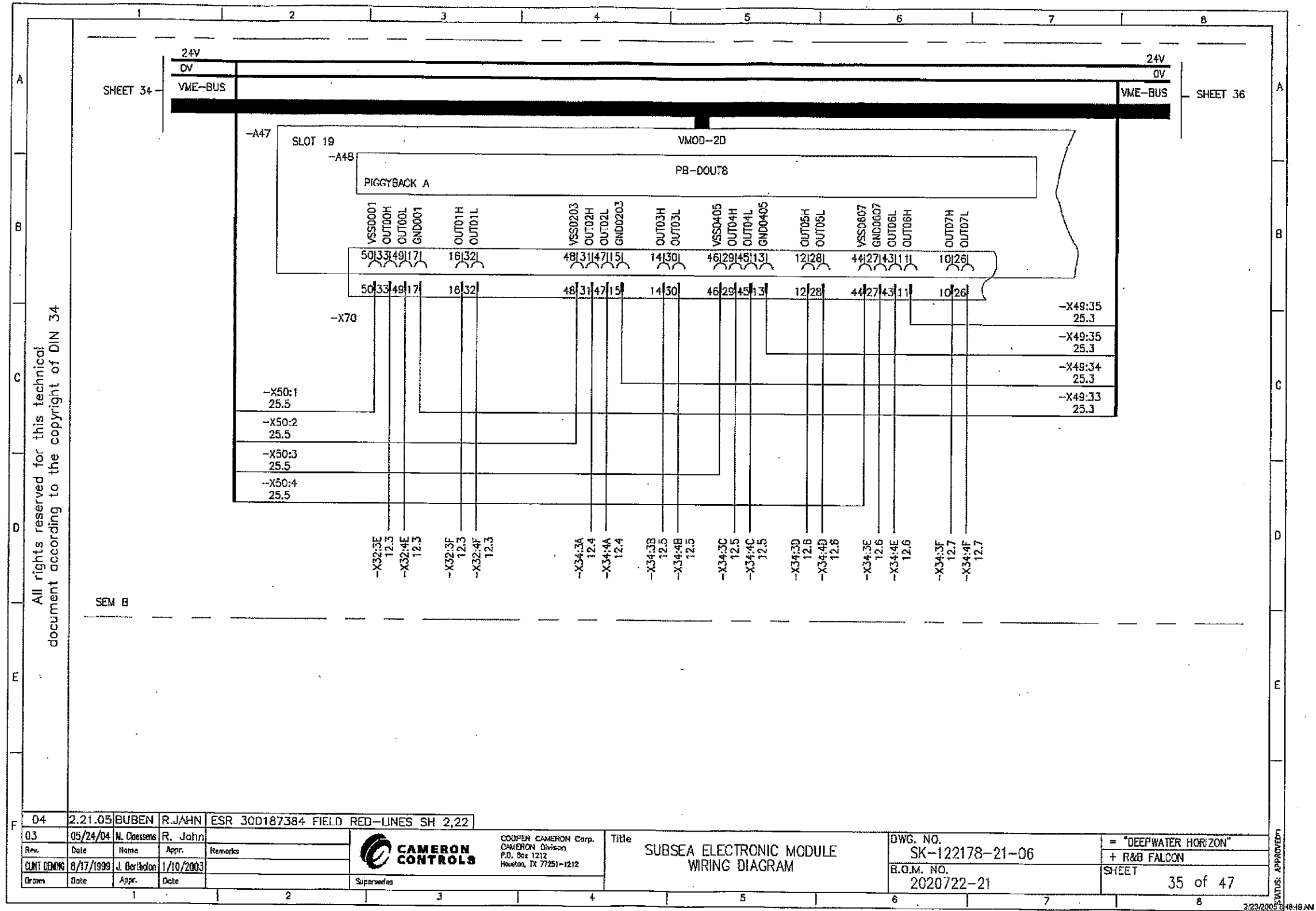
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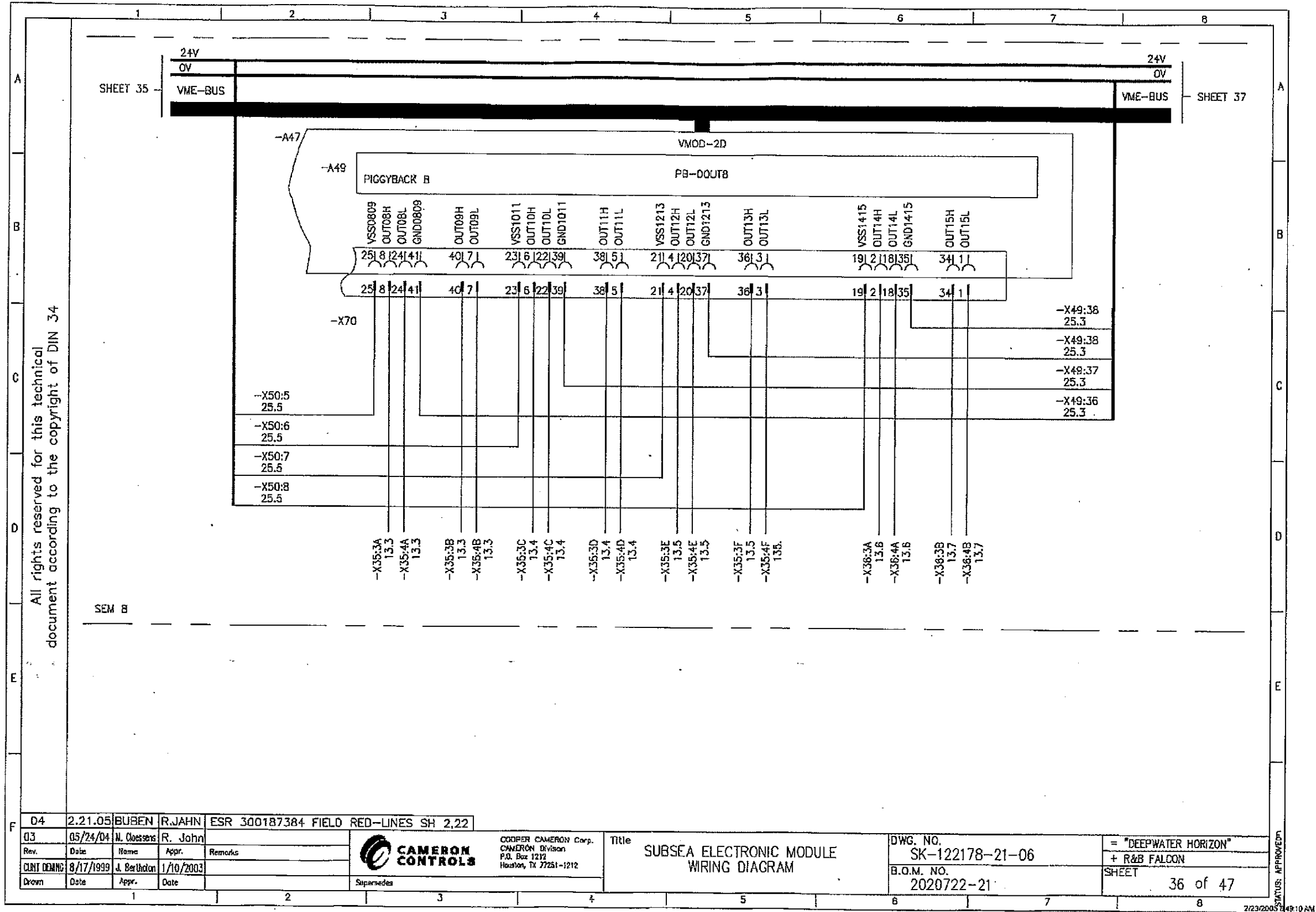
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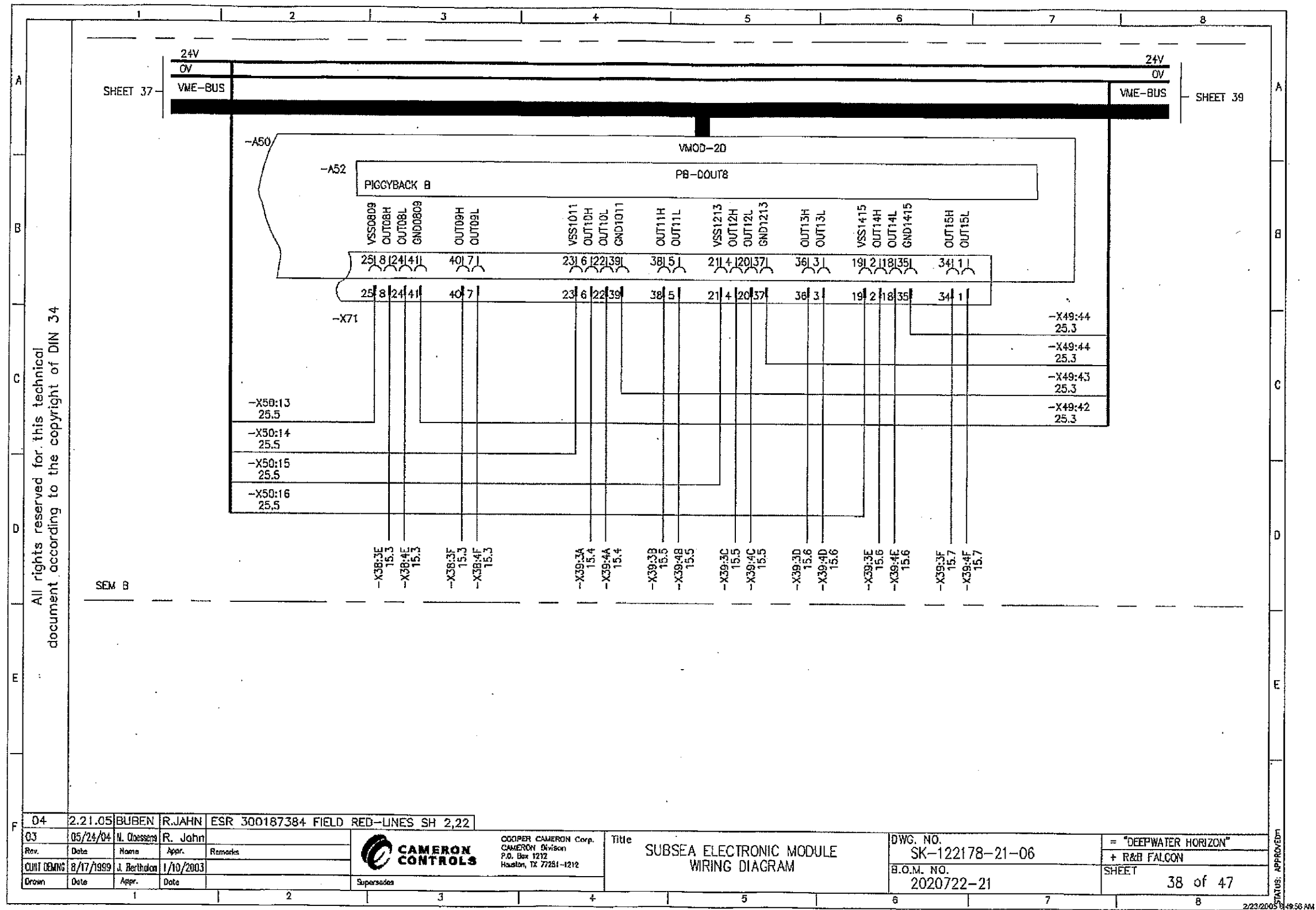


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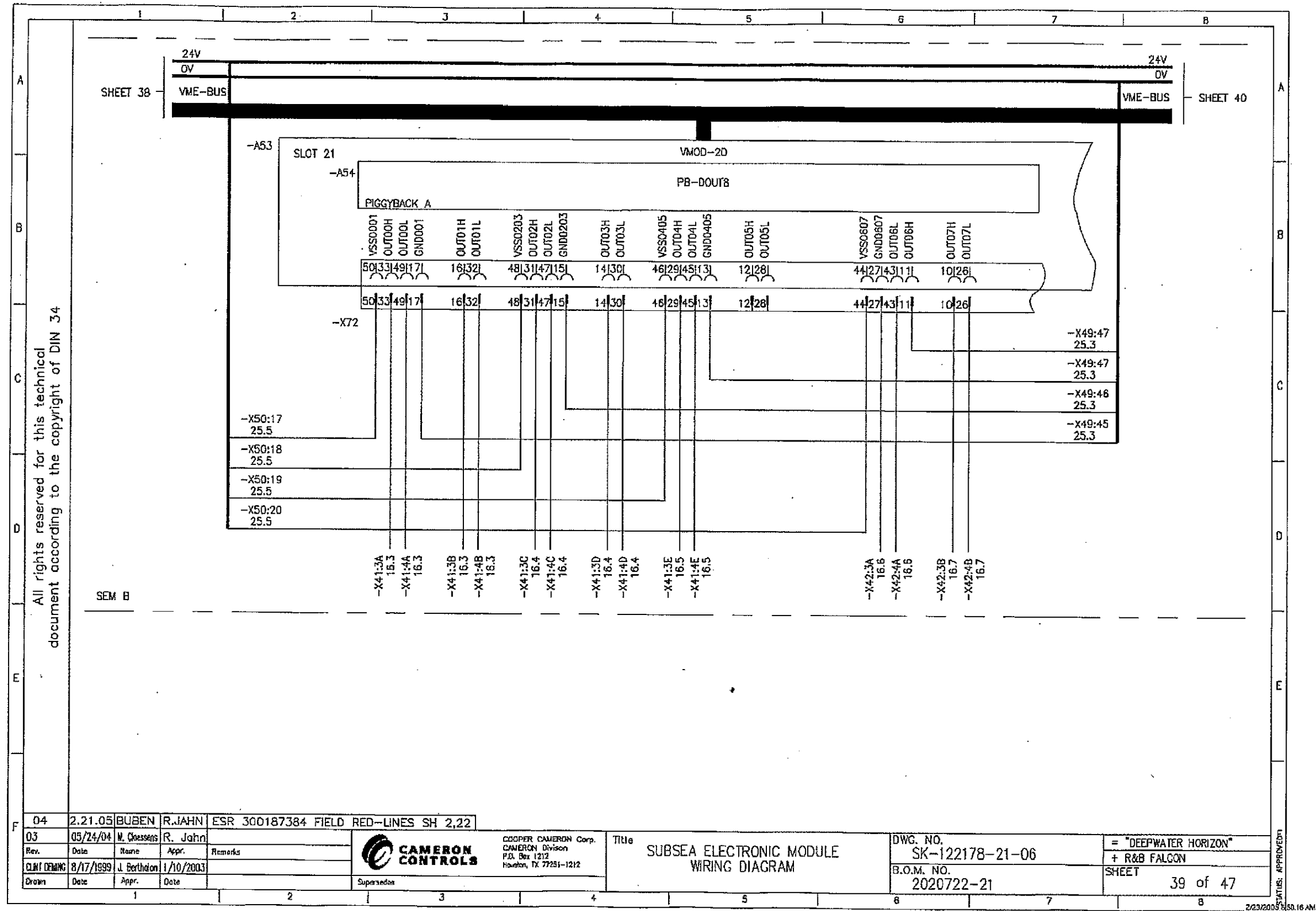


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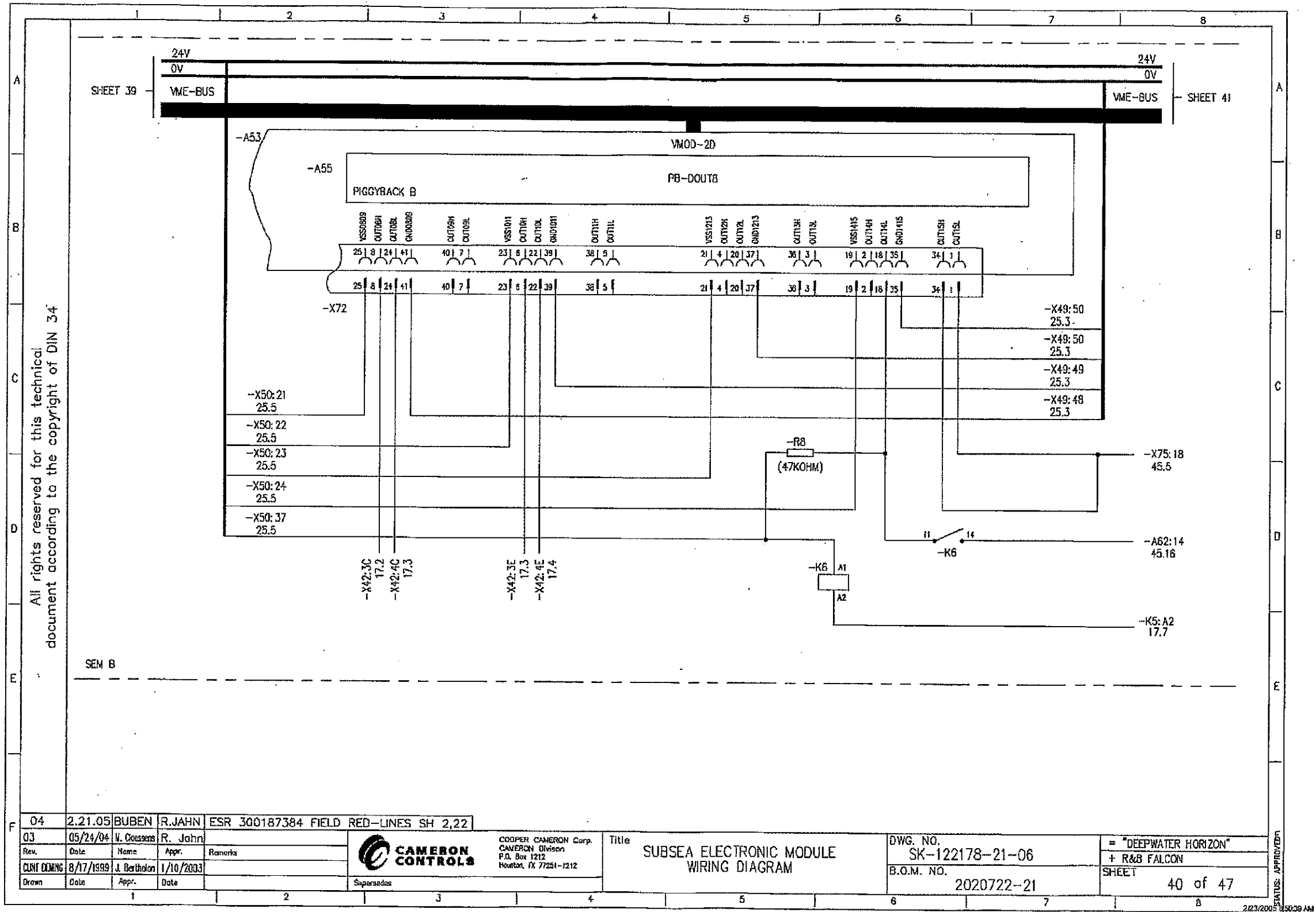


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TRN-MDL-00304752



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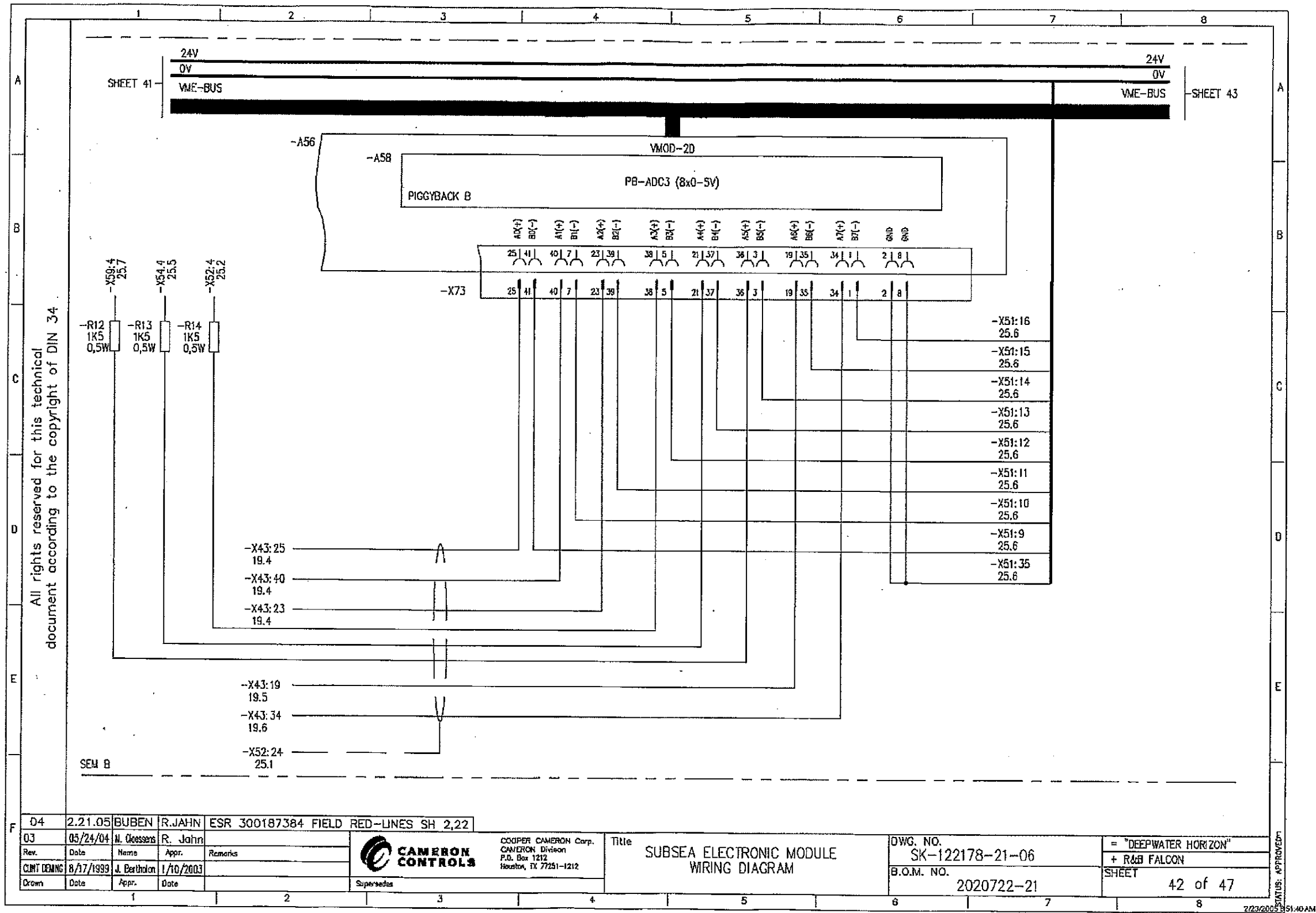


CONFIDENTIAL

TRN-MDL-00304754



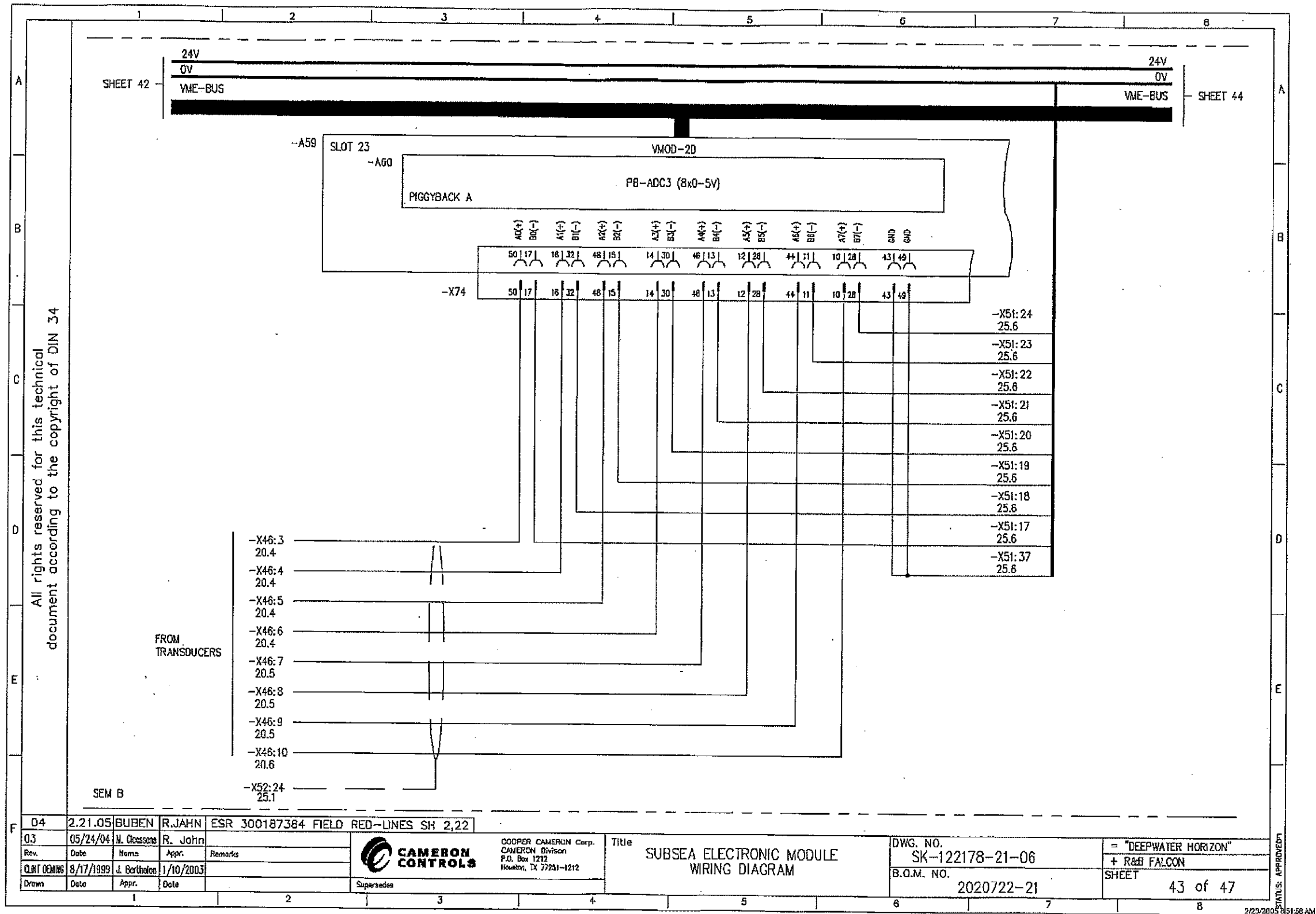
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CONFIDENTIAL

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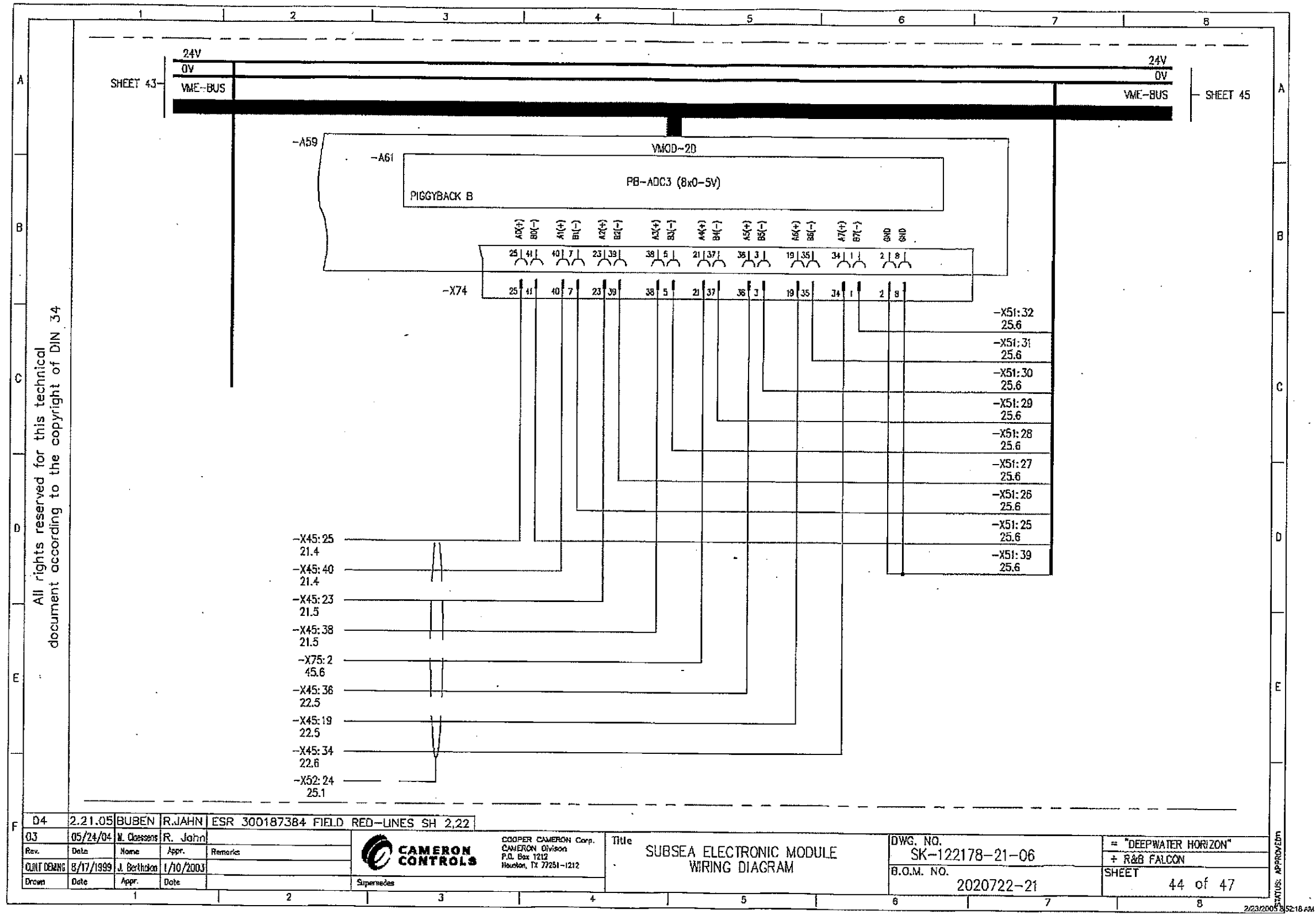
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CONFIDENTIAL

TRN-MDL-00304757

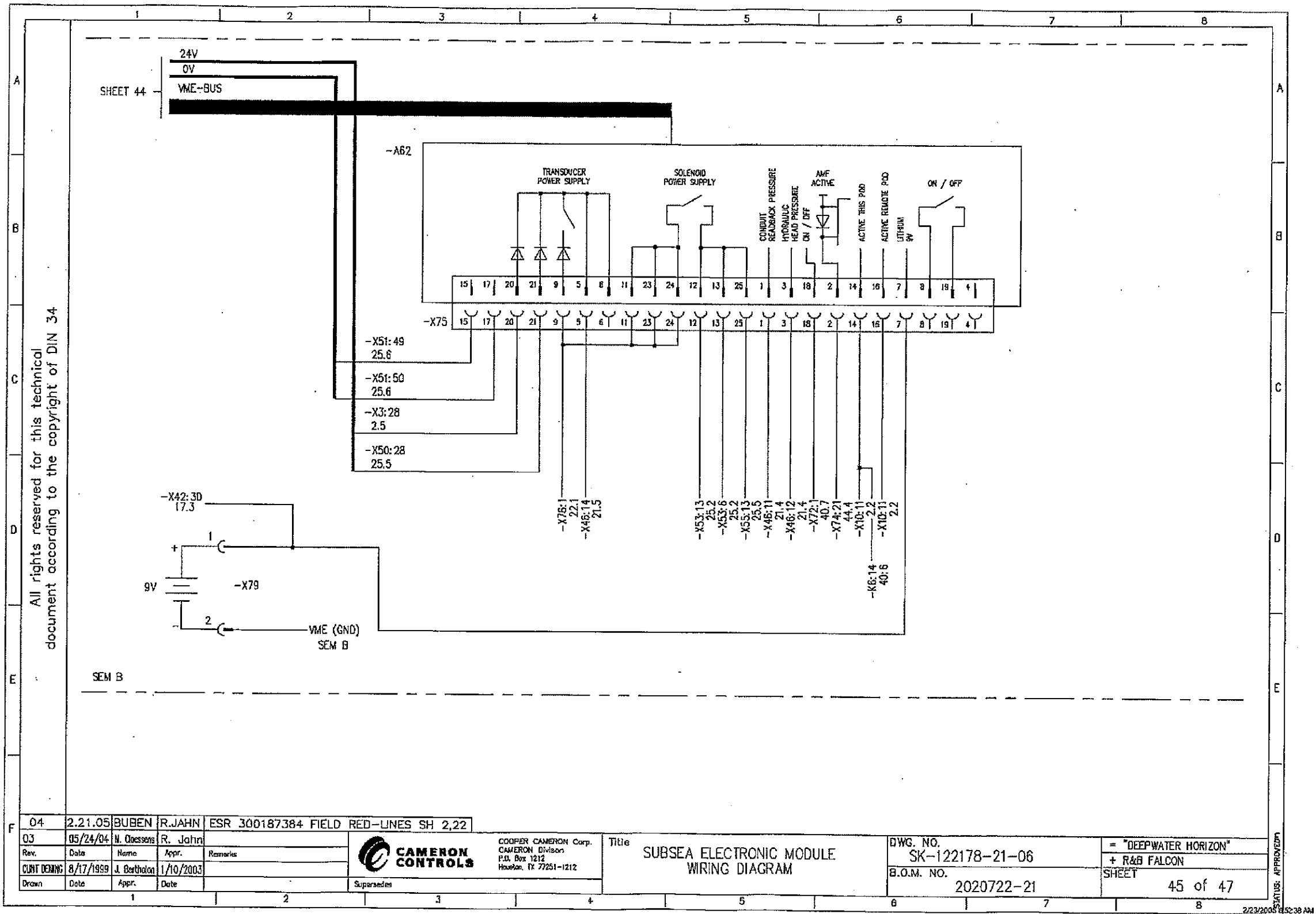
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A		24V		24V		A	
B		0V		0V		B	
C		VME-BUS		VME-BUS		C	
D		SHEET 45		SHEET 47		D	
E						E	
F						F	

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SEM B

04	2.21.05	BUBEN	R.JAHN	ESR 300187384 FIELD RED-LINES SH 2,22	 COOPER CAMERON Corp. CAMERON Division P.O. Box 1212 Houston, TX 77251-1212	Title SUBSEA ELECTRONIC MODULE WIRING DIAGRAM	DWG. NO. SK-122178-21-06 B.O.M. NO. 2020722-21	= "DEEPWATER HORIZON" + R&B FALCON SHEET 46 of 47
03	05/24/04	N. Olessens	R. John					
Rev.	Date	Name	Appr.	Remarks				
Drawn	Date	Appr.	Date	Supersedes				

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A				2				3				4				5				6				7				8			
SHEET 46				24V				0V				24V				0V				VME-BUS				VME-BUS							
B																															
C																															
D																															
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04				2.21.05				BUBEN R. JAHN				ESR 300187384 FIELD RED-LINES SH 2,22											
Rev.	Date	Name	Appr.	Remarks				 COOPER CAMERON Corp. CAMERON Division P.O. Box 1212 Houston, TX 77251-1212				Title SUBSEA ELECTRONIC MODULE WIRING DIAGRAM				DWG. NO. SK-122178-21-06 B.O.M. NO. 2020722-21				= "DEEPWATER HORIZON" + R&E FALCON SHEET 47 of 47			
03	05/24/04	M. Gossens	R. Jahn																				
02	08/17/1999	J. Berthoin	1/10/2003																				
Drawn	Date	Appr.	Date					Supersedes															

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