

DRUG PRODUCT - AUTOMATION BMS - WALKABLE CEILING (SHEET 1/4)

AI-TT-RH-A-2001-01 AI-MT-AHU-7A-4-001 AI-TT-AHU-7A-4-001 AI-PT-AHU-7A-4-002 AI-MT-AHU-7A-3-001 AI-TT-AHU-7A-3-001 AO-TV-970033 AO-TV-970063

NT-7A-BAC-001 NT-7A-BAC-002 NT-7A-BAC-003

AO-TV-9700300

AI-TT-RH-A-2033-1 AI-TT-RH-A-2028-1 AI-TT-RH-A-2003-1 AI-PDT-RAV-A-2003-1 AI-TT-RH-A-2031-1 AI-TT-RH-A-2002-1 AI-TT-RH-A-2024-1 AO-TV-970021 AO-TV-9700168 AO-TV-970037 AO-TV-970039 AO-TV-970041 AO-TV-970061 AO-TV-9700155 AO-TV-9700180

NT-7A-BAC-003 NT-7A-BAC-004 NT-7A-BAC-007

AO-TV-9700192

5 NT-7A-BAC-002

─ NT-7A-BAC-001 NT-7A-BAC-002 **REVISION 0 NOTES**

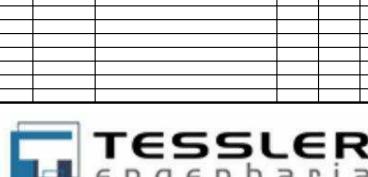
INCREASED DRAWING SCALE. ADDED INSTRUMENT CABLES NUMBERS.

REVISION 1 NOTES / NOTAS REVISÃO 1 TRANSLATED TO PORTUGUESE TRADUZIDO PARA O PORTUGUÊS..

721 ARBOR WAY, SUITE 100 Services **BLUE BELL** PENNSYLVANIA 19422 Engineering Design/Build PHONE: 610.828.4090 FAX: 610.828.3656 Compliance Consulting www.ipsdb.com

REV	DATE	DESCRIPTION
A	28AUG2020	90% BD ISSUE
B	16OCT2020	FINAL BD ISSUE
C	24JUN2021	90% DD ISSUE
0	15SEP2021	ISSUE FOR CONSTRUCTION
1	22NOV2021	ISSUED FOR CONSTRUCTION
CONSIDERING COMMENTS		

IPS Professional Engineers and Architects, PC.



R. Dr. Cesário Mota Júnior, 424 - Vila Buarque, São Paulo - SP, 01221-020

GENERAL NOTES: / NOTAS GERAIS:

. FOR LEGEND, ABBREVIATIONS AND SYMBOL SEE SHEETS 7A-I-0-0-01. PARA LEGENDA, ABREVIATURAS E SÍMBOLOS, VER DES. 7A-I-0-0-01. 2. ALL CONDUIT SHALL BE Ø3/4" UNLESS NOTED OTHERWISE.

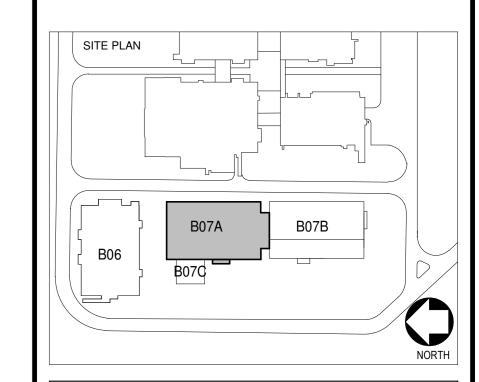
TODOS ELETRODUTOS SERÃO Ø3/4", SALVO ONDE INDICADO. 3. SUPORTES TO CABLE TRAYS AND CONDUITS SHALL BE PROVIDE TO EACH 2,00 METERS SUPORTES P/ BANDEJAS, ELETROD. DEVEM SER MONTADOS A CADA 2m 4. ALL CABLING BETWEEN SENSORS, ACTUATORS AND REMOTES IO WILL BE DONE BY OWNER'S BMS/EMS CONTRACTOR. TODOS CABOS ENTRE SENSORES, ATUADORES E REMOTAS DE IO SERÃO FEITOS PELA CONTRATANTE DE BMS / EMS.

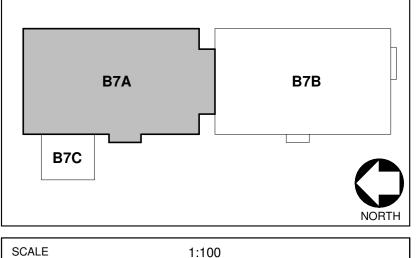
5. MATERIAL LIST SEE DOCUMENT NUMBER PRD-AIC-LIS-043. PARA LISTA DE MATERIAIS, VER DOCUMENTO № PRD-AIC-LIS-043. 6. ALL DIMENSIONS SHALL BE IN MILLIMETERS UNLESS NOTED OTHERWISE.
TODAS DIMENSÕES EM MILÍMETROS, SALVO ONDE INDICADAS. 7. TO DRAWING LIST SEE DOCUMENT 7A-I-0-0-01.

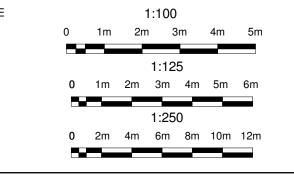
PARA LISTA DE DESENHOS, VER DOCUMENTO № 7A-I-0-0-01. 8. THE CABLE TRAY OF THE EMS SYSTEM DEDICATED TO OPTICAL FIBER

AND UTP CABLES MUST BE SHARED, INCLUDING BMS OPTICAL FIBERS, EMS OPTICAL FIBER AND BMS UTP CABLES. AS BANDEJAS DE CABOS DO SISTEMA EMS DEDICADA À FIBRA ÓPTICA E OS CABOS UTP DEVEM SER COMPARTILHADOS, INCLUINDO FIBRAS ÓPTICAS DO BMS, FIBRA ÓPTICA EMS E CABOS UTP BMS. 9. THE CABLE TRAY OF THE BMS SYSTEM DEDICATED TO 4-20mA SIGNALS MUST BE SHARED, INCLUDING BMS 4-20mA SIGNALS AND EMS 4-20mA AS BANDEJAS DE CABOS DO SISTEMA EMS DEDICADA A SINAIS DE 4-20mA, DEVEM SER COMPARTILHADAS, INCLUINDO SINAIS BMS E EMS

OS SENSORES DO SISTEMA BMS NÃO PODEM SER COMPARTILHADOS COM OS DO EMS. 11. FOR BMS - EQUIPMENT & DEVICES SCHEDULE SEE DOCUMENT PARA BMS - EQUIPAMENTO E PROGRAMAÇÃO DE DISPOSITIVOS, CONSULTE O DOCUMENTO PRD-LIS-020. 2. FOR NETWORK DEVICES INTERCONNECTIONS SEE DOCUMENT 7A-I-0-3-21 & 7A-I-0-3-20. PARA INTERLIGAÇÕES DE DISPOSITIVOS DE REDE, CONSULTE OS DOCUMENTOS 7A-I-0-3-21 e 7A-I-0-3-20.







CONFIDENTIAL

THE INFORMATION CONTAINED HEREIN MAY NOT BE USED OR REPRODUCED IN ANY MANNER WITHOUT WRITTEN PERMISSION OF INTEGRATED PROJECT SERVICES.

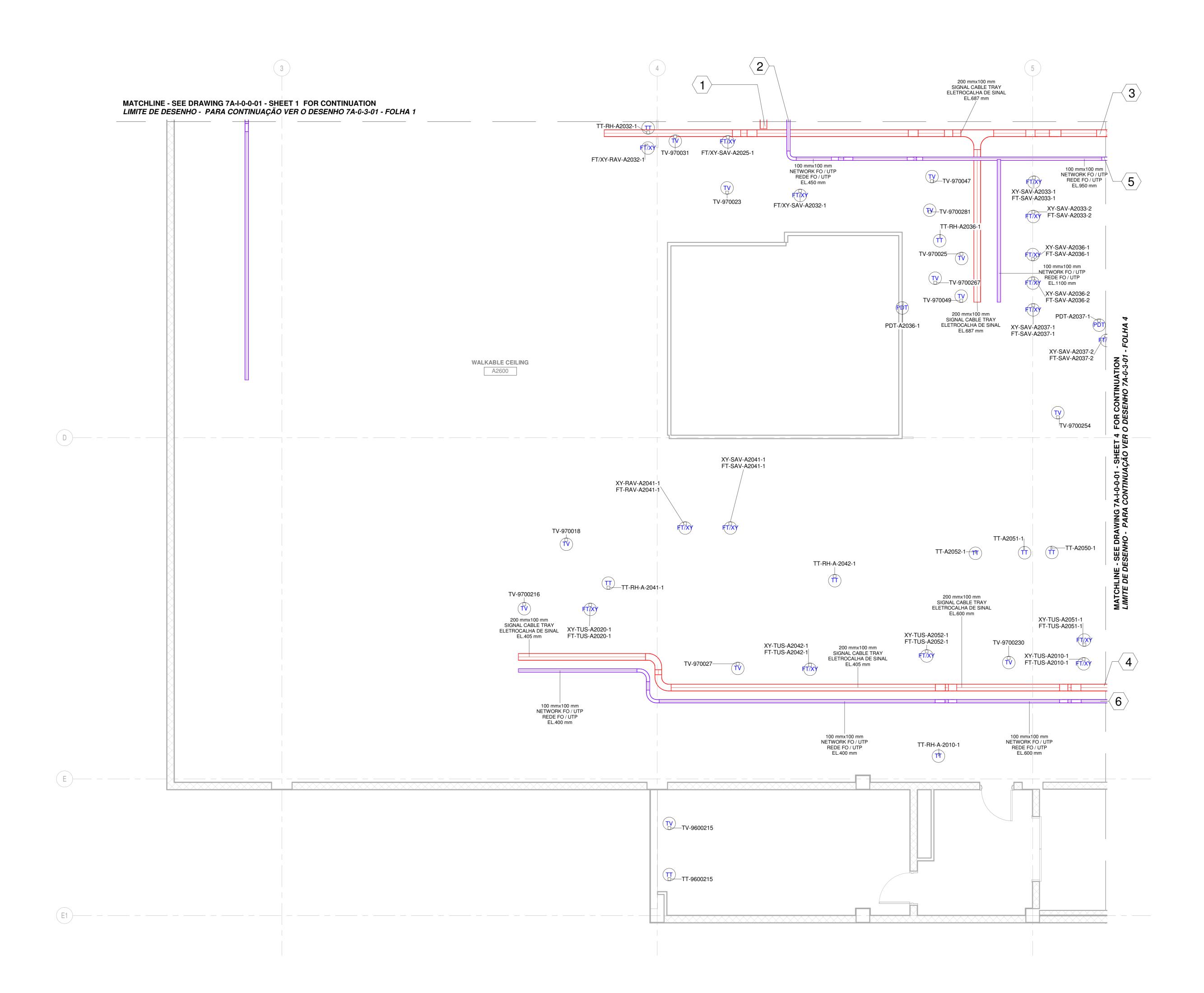


DRUG PRODUCT **AUTOMATION BMS**

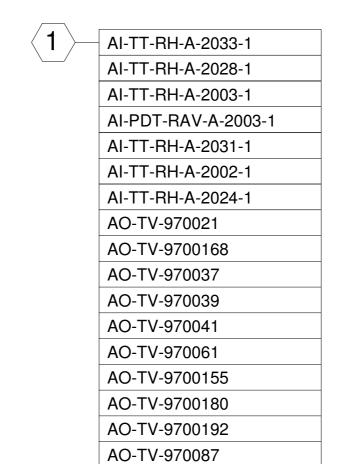
WALKABLE CEILING SHEET

DRAWN BY REVIEWED BY SCALE

7A-I-0-3-01



DRUG PRODUCT - AUTOMATION BMS - WALKABLE CEILING (SHEET 2/4)



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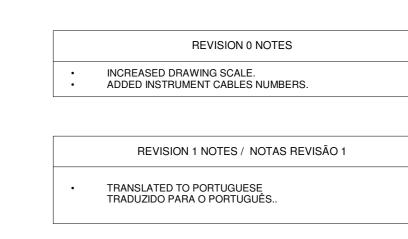
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	AI-TT-RH-A-2003-1
	AI-PDT-RAV-A-2003-1
	AI-TT-RH-A-2031-1
	AI-TT-RH-A-2002-1
	AI-TT-RH-A-2024-1
	AI-PDT-RAV-A-2036-1
	AI-TT-RH-A-2032-1
	AI-TT-RH-A-2036-1
	AO-TV-970021
	AO-TV-9700168
	AO-TV-970037
	AO-TV-970039
	AO-TV-970041
	AO-TV-970061
	AO-TV-9700155
	AO-TV-9700180
	AO-TV-9700192
	AO-TV-970047
	AO-TV-9700281
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	AO-TV-970023
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	AO-TV-970025
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	AO-TV-9700267

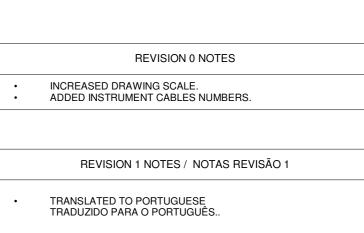
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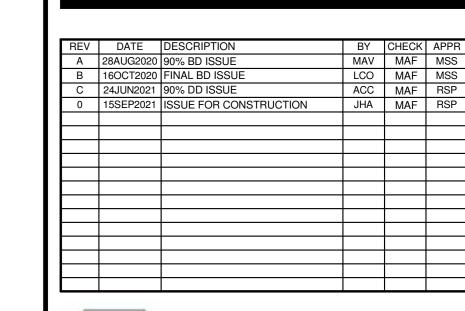
NT-7A-BAC-003 NT-7A-BAC-004 NT-7A-BAC-007

AO-TV-9700215

NT-7A-BAC-001 NT-7A-BAC-002







IPS Professional Engineers and Architects, PC.

721 ARBOR WAY, SUITE 100

PENNSYLVANIA 19422

PHONE: 610.828.4090

FAX: 610.828.3656

BLUE BELL

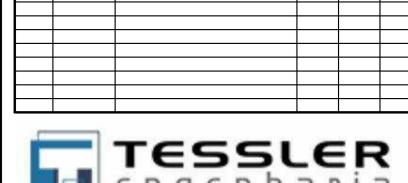
www.ipsdb.com

Project Services

Engineering Design/Build

Compliance

Consulting



GENERAL NOTES: / NOTAS GERAIS:

R. Dr. Cesário Mota Júnior, 424 - Vila Buarque, São Paulo - SP, 01221-020

1. FOR LEGEND, ABBREVIATIONS AND SYMBOL SEE SHEETS 7A-I-0-0-01. PARA LEGENDA, ABREVIATURAS E SÍMBOLOS, VER DES. 7A-I-0-0-01. 2. ALL CONDUIT SHALL BE Ø3/4" UNLESS NOTED OTHERWISE. TODOS ELETRODUTOS SERÃO Ø3/4", SALVO ONDE INDICADO.

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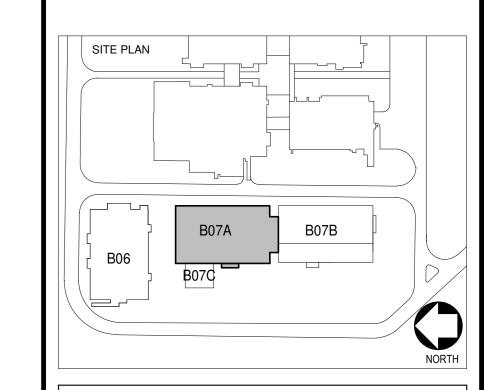
1. FOR BMS - EQUIPMENT & DEVICES SCHEDULE SEE DOCUMENT PRD-LIS-020.

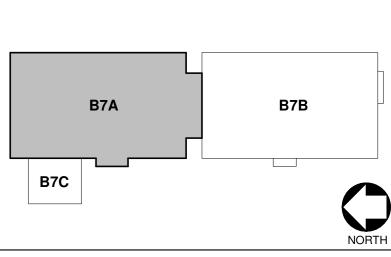
PARA BMS - EQUIPAMENTO E PROGRAMAÇÃO DE DISPOSITIVOS,

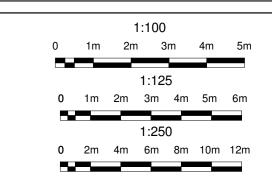
CONSULTE O DOCUMENTO PRD-LIS-020.

12. FOR NETWORK DEVICES INTERCONNECTIONS SEE DOCUMENT 7A-I-0-3-21 & 7A-I-0-3-20.

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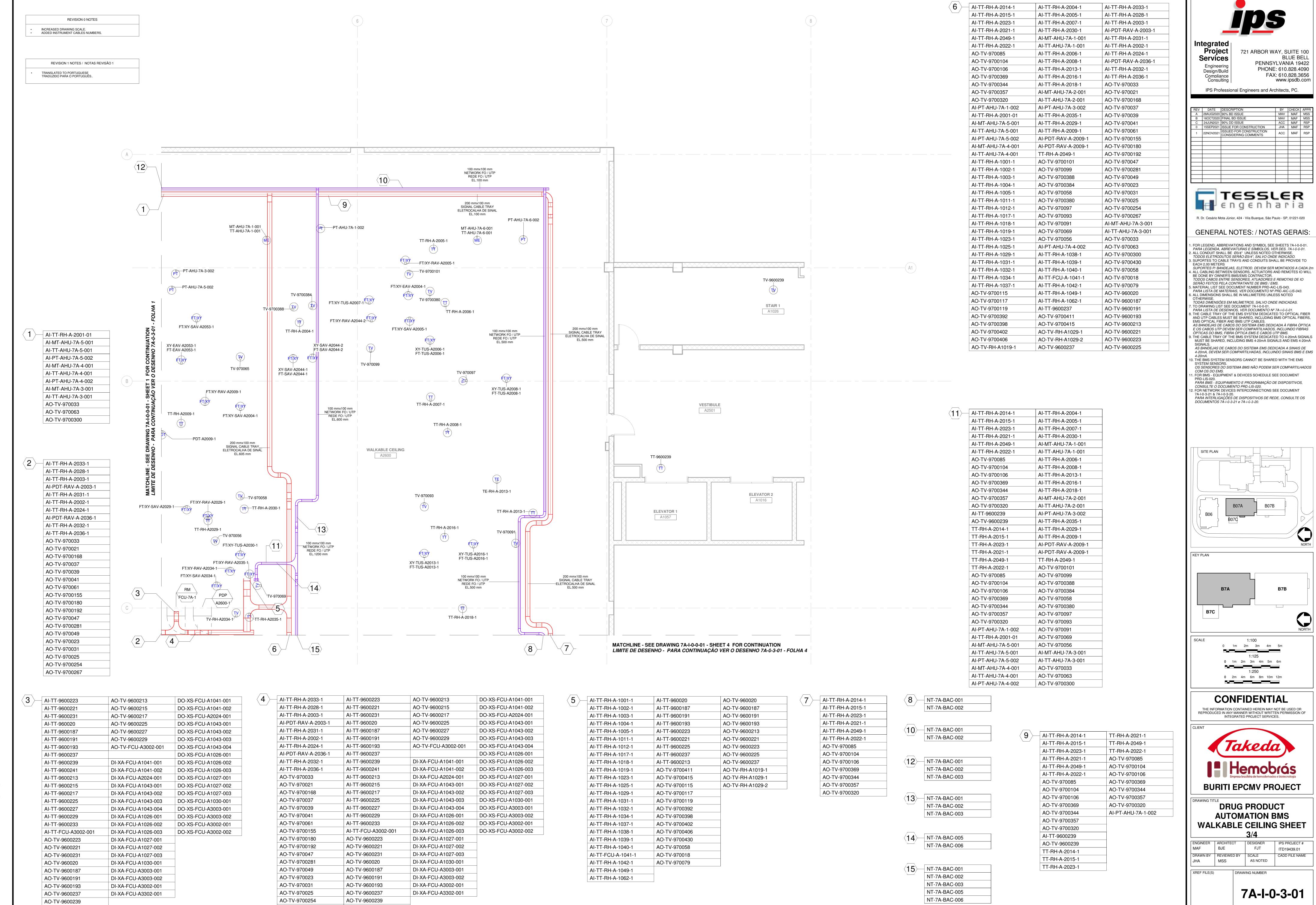


BURITI EPCMV PROJECT DRUG PRODUCT

AUTOMATION BMS WALKABLE CEILING SHEET

DRAWN BY REVIEWED BY SCALE XREF FILE(S)

7A-I-0-3-01



AO-TV-9600241

AO-TV-9700267

AO-TV-9600241

DRUG PRODUCT - AUTOMATION BMS - WALKABLE CEILING (SHEET 4/4)

SCALE: 1:50

AI-TT-RH-A-2014-1	AI-TT-RH-A-2004-1	AI-TT-RH-A-2033-1	AO-TV-9700320	AO-TV-9700380	AO-TV-970025
AI-TT-RH-A-2015-1	AI-TT-RH-A-2005-1	AI-TT-RH-A-2028-1	AI-PT-AHU-7A-1-002	AO-TV-970097	AO-TV-9700254
AI-TT-RH-A-2023-1	AI-TT-RH-A-2007-1	AI-TT-RH-A-2003-1	AI-TT-RH-A-2001-01	AO-TV-970093	AO-TV-9700267
AI-TT-RH-A-2021-1	AI-TT-RH-A-2030-1	AI-PDT-RAV-A-2003-1	AI-MT-AHU-7A-5-001	AO-TV-970091	AI-MT-AHU-7A-3-001
AI-TT-RH-A-2049-1	AI-MT-AHU-7A-1-001	AI-TT-RH-A-2031-1	AI-TT-AHU-7A-5-001	AO-TV-970069	AI-TT-AHU-7A-3-001
AI-TT-RH-A-2022-1	AI-TT-AHU-7A-1-001	AI-TT-RH-A-2002-1	AI-PT-AHU-7A-5-002	AO-TV-970056	AO-TV-970033
AO-TV-970085	AI-TT-RH-A-2006-1	AI-TT-RH-A-2024-1	AI-MT-AHU-7A-4-001	AI-PT-AHU-7A-4-002	AO-TV-970063
AO-TV-9700104	AI-TT-RH-A-2008-1	AI-PDT-RAV-A-2036-1	AI-TT-AHU-7A-4-001	AI-TT-RH-A-1038-1	AO-TV-9700300
AO-TV-9700106	AI-TT-RH-A-2013-1	AI-TT-RH-A-2032-1	AI-TT-RH-A-1001-1	AI-TT-RH-A-1039-1	AO-TV-9700430
AO-TV-9700369	AI-TT-RH-A-2016-1	AI-TT-RH-A-2036-1	AI-TT-RH-A-1002-1	AI-TT-RH-A-1040-1	AO-TV-970058
AO-TV-9700344	AI-TT-RH-A-2018-1	AO-TV-970033	AI-TT-RH-A-1003-1	AI-TT-FCU-A-1041-1	AO-TV-970018
AO-TV-9700357	AI-MT-AHU-7A-2-001	AO-TV-970021	AI-TT-RH-A-1004-1	AI-TT-RH-A-1042-1	AO-TV-970079
AO-TV-9700320	AI-TT-AHU-7A-2-001	AO-TV-9700168	AI-TT-RH-A-1005-1	AI-TT-RH-A-1049-1	AO-TV-960020
TT-RH-A-2014-1	AI-PT-AHU-7A-3-002	AO-TV-970037	AI-TT-RH-A-1011-1	AI-TT-RH-A-1062-1	AO-TV-9600187
TT-RH-A-2015-1	AI-TT-RH-A-2035-1	AO-TV-970039	AI-TT-RH-A-1012-1	AI-TT-9600237	AO-TV-9600191
TT-RH-A-2023-1	AI-TT-RH-A-2029-1	AO-TV-970041	AI-TT-RH-A-1017-1	AO-TV-9700411	AO-TV-9600193
TT-RH-A-2021-1	AI-TT-RH-A-2009-1	AO-TV-970061	AI-TT-RH-A-1018-1	AO-TV-9700415	AO-TV-9600213
TT-RH-A-2049-1	AI-PDT-RAV-A-2009-1	AO-TV-9700155	AI-TT-RH-A-1019-1	AO-TV-9700115	AO-TV-9600221
TT-RH-A-2022-1	AI-PDT-RAV-A-2009-1	AO-TV-9700180	AI-TT-RH-A-1023-1	AO-TV-9700117	AO-TV-9600223
AO-TV-970085	TT-RH-A-2049-1	AO-TV-9700192	AI-TT-RH-A-1025-1	AO-TV-9700119	AO-TV-9600225
AO-TV-9700104	AO-TV-9700101	AO-TV-970047	AI-TT-RH-A-1029-1	AO-TV-9700392	AO-TV-9600237
AO-TV-9700106	AO-TV-970099	AO-TV-9700281	AI-TT-RH-A-1031-1	AO-TV-9700398	AO-TV-RH-A1019-1
AO-TV-9700369	AO-TV-9700388	AO-TV-970049	AI-TT-RH-A-1032-1	AO-TV-9700402	AO-TV-RH-A1029-1
AO-TV-9700344	AO-TV-9700384	AO-TV-970023	AI-TT-RH-A-1034-1	AO-TV-9700406	AO-TV-RH-A1029-2
AO-TV-9700357	AO-TV-970058	AO-TV-970031	AI-TT-RH-A-1037-1		
,					

⟨2⟩	NT-7A-BAC-001
	NT-7A-BAC-002
	NT-7A-BAC-003
	NT-7A-BAC-005
	NT-7A-BAC-006

AI-TT-RH-A-2041-1 AI-TT-RH-A-2010-1 AI-TT-RH-A-2042-1 AI-TT-RH-A-2050-1 AI-TT-RH-A-2051-1 AI-TT-RH-A-2052-1 AO-TV-970018 AO-TV-9700230 AO-TV-970027 AO-TV-9700216

AO-TV-970085 AO-TV-9700104 AO-TV-9700106 AO-TV-9700369 AO-TV-9700344 AO-TV-9700357 AO-TV-9700320 NT-7A-BAC-001 NT-7A-BAC-002

AI-TT-RH-A-2015-1

AI-TT-RH-A-2023-1

AI-TT-RH-A-2021-1

AI-TT-RH-A-2049-1

AI-TT-RH-A-2022-1

NT-7A-BAC-003 NT-7A-BAC-004 NT-7A-BAC-007

⟨ 7 ⟩—	AI-TT-RH-A-2014-1
	AI-TT-RH-A-2015-1
	AI-TT-RH-A-2023-1
	AI-TT-RH-A-2021-1
	AI-TT-RH-A-2049-1
	AI-TT-RH-A-2022-1
	AO-TV-970085
	AO-TV-9700104
	AO-TV-9700106
	AO-TV-9700369

NT-7A-BAC-003 NT-7A-BAC-004 NT-7A-BAC-007

/ O \ NIT TA DAG 664
√ 9 → NT-7A-BAC-001
NT-7A-BAC-002
NT-7A-BAC-003
NT-7A-BAC-004
NT-7A-BAC-005
NT-7A-BAC-006
NT-7A-BAC-007

REVISION 0 NOTES

INCREASED DRAWING SCALE. ADDED INSTRUMENT CABLES NUMBERS.

REVISION 1 NOTES / NOTAS REVISÃO 1

TRADUZIDO PARA O PORTUGUÊS.

AI-TT-RH-A-2014-1

AI-TT-RH-A-2015-1

AI-TT-RH-A-2023-1

AI-TT-RH-A-2021-1

AI-TT-RH-A-2049-1

AI-TT-RH-A-2022-1

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AI-TT-RH-A-2050-1

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AI-TT-RH-A-2052-1

AI-TT-RH-A-2046-1 AI-TT-RH-A-2040-1

AI-TT-RH-A-2012-1

AI-TT-RH-A-2034-1

AI-TT-RH-A-2038-1

AI-TT-RH-A-2039-1

AI-TT-RH-A-2037-1

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AI-PDT-RAV-A-2039-1

AI-PDT-RAV-A-2040-1

AI-PT-AHU-7A-1-002

AI-TT-RH-A-2001-01

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AI-TT-AHU-7A-5-001

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AO-TV-9700332

AO-TV-970077

AO-TV-970051

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AI-TT-RH-A-2005-1

AI-TT-RH-A-2007-1

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AI-TT-RH-A-2006-1

AI-TT-RH-A-2008-

AI-TT-RH-A-2013-1

AI-TT-RH-A-2016-1

AI-TT-RH-A-2018-1

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AI-TT-AHU-7A-2-001

AI-PT-AHU-7A-3-002

AI-TT-RH-A-2035-1

AI-TT-RH-A-2029-1

AI-TT-RH-A-2009-1

TT-RH-A-2049-1

AO-TV-9700101

AO-TV-970099

AO-TV-9700388

AO-TV-9700384

AO-TV-970058

AO-TV-9700380

AO-TV-970097

AO-TV-970093

AO-TV-970091

AO-TV-970069

AO-TV-970056

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AO-TV-9700406

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AO-TV-970081

AO-TV-970075

AI-TT-RH-A-2049-1

AI-TT-RH-A-2022-1

AI-PDT-RAV-A-2009-1

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AI-TT-RH-A-2033-1

AI-TT-RH-A-2028-1

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AI-TT-RH-A-2031-1

AI-TT-RH-A-2002-1

AI-TT-RH-A-2024-1

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AO-TV-9700430

AO-TV-970018

AO-TV-970079

AO-TV-960020

AO-TV-9600187

AO-TV-9600191

AO-TV-9600193

AO-TV-9600213

AO-TV-9600221

AO-TV-9600223

AO-TV-9600225

AO-TV-9600237

AO-TV-RH-A1019-1

AO-TV-RH-A1029-1

AO-TV-RH-A1029-2

AI-TT-9600193

AI-TT-9600223

AI-TT-9600221

AI-TT-9600225

AI-TT-9600237

AI-TT-9600213

AO-TV-970083

AO-TV-970079

AI-MT-AHU-7A-3-001

AI-TT-AHU-7A-3-001

AI-PDT-RAV-A-2036-1

AI-PDT-RAV-A-2003-1

721 ARBOR WAY, SUITE 100 Services **BLUE BELL** PENNSYLVANIA 19422 Engineering PHONE: 610.828.4090 Design/Build FAX: 610.828.3656 Compliance Consulting www.ipsdb.com

IPS Professional Engineers and Architects, PC.

REV	DATE	DESCRIPTION	BY	CHECK	APPF
Α	28AUG2020	90% BD ISSUE	MAV	MAF	MSS
В	16OCT2020	FINAL BD ISSUE	MAV	MAF	MSS
С	24JUN2021	90% DD ISSUE	ACC	MAF	RSP
0	15SEP2021	ISSUE FOR CONSTRUCTION	JHA	MAF	RSP
1	22NOV2021	ISSUED FOR CONSTRUCTION CONSIDERING COMMENTS	ACC	MAF	RSP

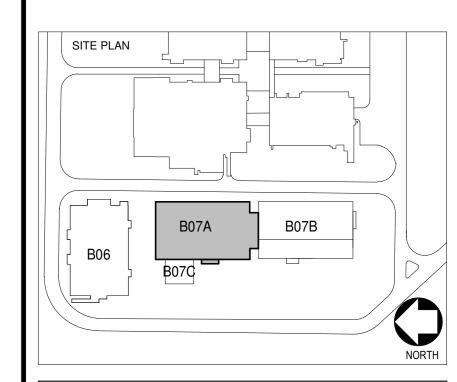


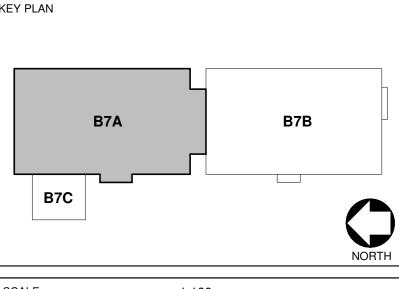
R. Dr. Cesário Mota Júnior, 424 - Vila Buarque, São Paulo - SP, 01221-020

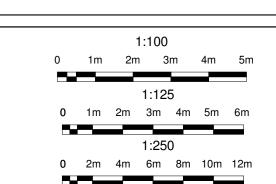
GENERAL NOTES: / NOTAS GERAIS:

. FOR LEGEND, ABBREVIATIONS AND SYMBOL SEE SHEETS 7A-I-0-0-01. PARA LEGENDA, ABREVIATURAS E SÍMBOLOS, VER DES. 7A-I-0-0-01. ALL CONDUIT SHALL BE Ø3/4" UNLESS NOTED OTHERWISE. TODOS ELETRODUTOS SERÃO Ø3/4", SALVO ONDE INDICADO. SUPORTES TO CABLE TRAYS AND CONDUITS SHALL BE PROVIDE TO SUPORTES P/ BANDEJAS, ELETROD. DEVEM SER MONTADOS A CADA 2m ALL CABLING BETWEEN SENSORS, ACTUATORS AND REMOTES IO WILL BE DONE BY OWNER'S BMS/EMS CONTRACTOR. TODOS CABOS ENTRE SENSORES, ATUADORES E REMOTAS DE IO SERÃO FEITOS PELA CONTRATANTE DE BMS / EMS. . MATERIAL LIST SEE DOCUMENT NUMBER PRD-AIC-LIS-043. PARA LISTA DE MATERIAIS, VER DOCUMENTO № PRD-AIC-LIS-043. ALL DIMENSIONS SHALL BE IN MILLIMETERS UNLESS NOTED TODAS DIMENSÕES EM MILÍMETROS, SALVO ONDE INDICADAS. TO DRAWING LIST SEE DOCUMENT 7A-I-0-0-01. PARA LISTA DE DESENHOS, VER DOCUMENTO № 7A-I-0-0-01. B. THE CABLE TRAY OF THE EMS SYSTEM DEDICATED TO OPTICAL FIBER AND UTP CABLES MUST BE SHARED, INCLUDING BMS OPTICAL FIBERS, EMS OPTICAL FIBER AND BMS UTP CABLES. AS BANDEJAS DE CABOS DO SISTEMA EMS DEDICADA À FIBRA ÓPTICA E OS CABOS UTP DEVEM SER COMPARTILHADOS, INCLUINDO FIBRAS ÓPTICAS DO BMS. FIBRA ÓPTICA EMS E CABOS UTP BMS. THE CABLE TRAY OF THE BMS SYSTEM DEDICATED TO 4-20m/ MUST BE SHARED, INCLUDING BMS 4-20mA SIGNALS AND EMS 4-20mA AS BANDEJAS DE CABOS DO SISTEMA EMS DEDICADA A SINAIS DE 4-20mA, DEVEM SER COMPARTILHADAS, INCLUINDO SINAIS BMS E EMS

0. THE BMS SYSTEM SENSORS CANNOT BE SHARED WITH THE EMS OS SENSORES DO SISTEMA BMS NÃO PODEM SER COMPARTILHADOS 1. FOR BMS - EQUIPMENT & DEVICES SCHEDULE SEE DOCUMENT PARA BMS - EQUIPAMENTO E PROGRAMAÇÃO DE DISPOSITIVOS, CONSULTE O DOCUMENTO PRD-LIS-020. 2. FOR NETWORK DEVICES INTERCONNECTIONS SEE DOCUMENT PARA INTERLIGAÇÕES DE DISPOSITIVOS DE REDE, CONSULTE OS DOCUMENTOS 7A-I-0-3-21 e 7A-I-0-3-20.











DRUG PRODUCT AUTOMATION BMS

DRAWN BY REVIEWED BY SCALE

DRAWING NUMBER

XREF FILE(S)

7A-I-0-3-01