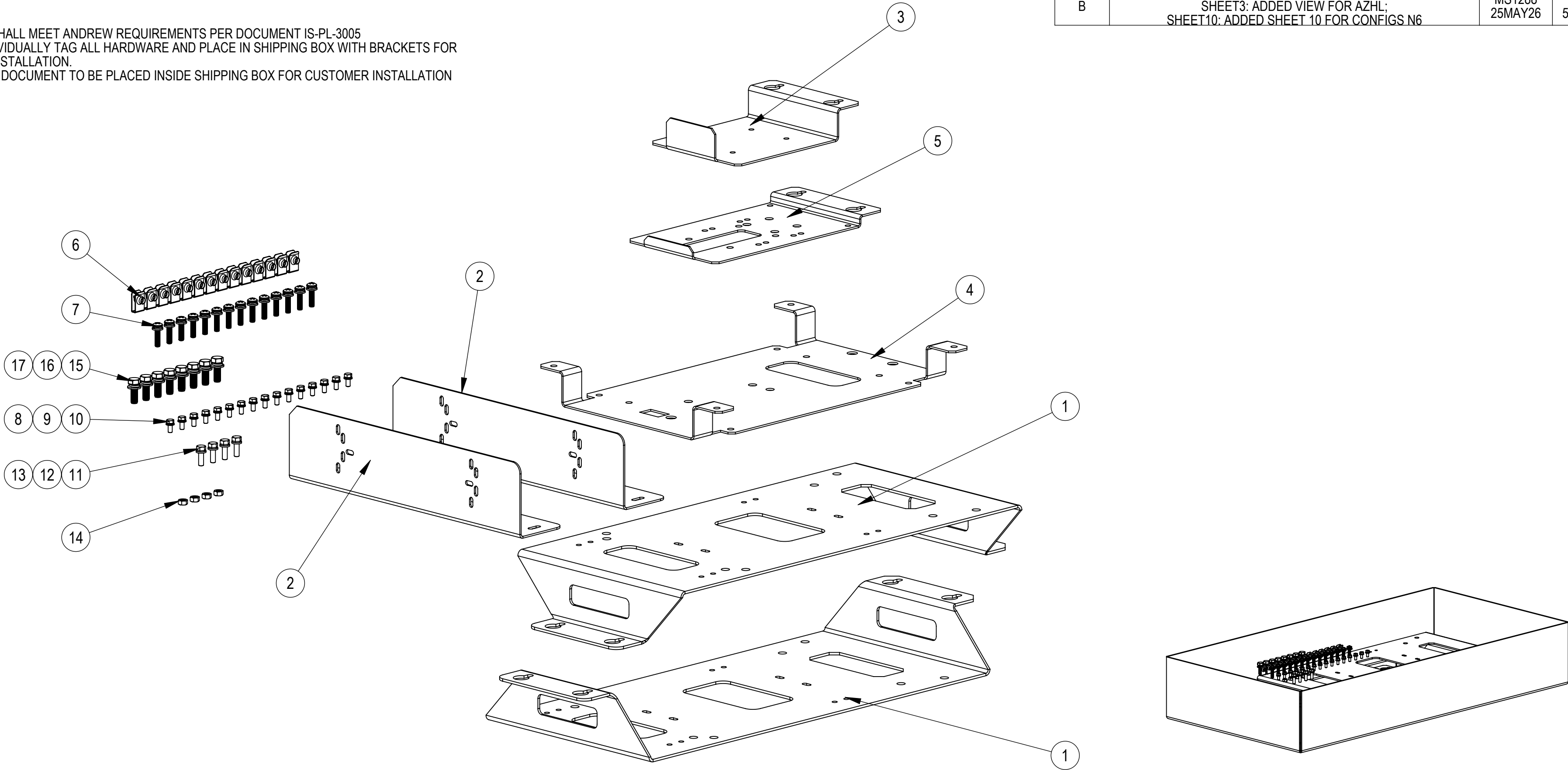


- 4
- 3
- 2
- 1
- 1.0 GENERAL NOTES
- 1.1 ALL METRIC DIMENSIONS ARE IN BRACKETS [X. X]
- 1.2 FEATURES CRITICAL TO QUALITY ARE INDICATED IN ROUNDED BOX (XX.X)
- 1.3 3D DIGITAL FILES ARE FOR REFERENCE. IN CASE OF CONFLICT FOLLOW PDF DRAWING
- 2.0 DESIGN NOTES
- 3.0 MANUFACTURING/SPECIAL REQUIREMENTS
- 4.0 TEST
- 5.0 PACKAGING
- 5.1 PACKAGING SHALL MEET ANDREW REQUIREMENTS PER DOCUMENT IS-PL-3005
- 5.2 BAG AND INDIVIDUALLY TAG ALL HARDWARE AND PLACE IN SHIPPING BOX WITH BRACKETS FOR CUSTOMER INSTALLATION.
- 5.3 THIS PRINTED DOCUMENT TO BE PLACED INSIDE SHIPPING BOX FOR CUSTOMER INSTALLATION

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	ZL1057 24JUN25	WQ1001 50103540AMO
B	SHEET2: ADDED CONFIGS N6; SHEET3: ADDED VIEW FOR AZHL; SHEET10: ADDED SHEET 10 FOR CONFIGS N6	MS1288 25MAY26	LX1002 50108586AMO



COMPONENT PART NUMBERS PROVIDED FOR ASSEMBLY PURPOSES;
INDIVIDUAL COMPONENTS MAY BE SHIPPED AS PARTS WITHIN AN INCLUDED KIT.

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	NOTE
1	MTM1221-4005-BR	MOUNTING BRACKET, NOK	2	
2	MTM1221-4006-BR	MOUNTING BRACKET, DIPELXER	2	
3	MTM1221-4002-BR	MOUNTING BRACKET, 6304/DELTA2.0/CC1600	1	
4	MTM1221-4003-BR	MOUNTING BRACKET, DIPELXER	1	
5	MTM1160-1161-BR	BRACKET AWHHF HANGER RIGHT PB20GA	1	
6	460143456	CLIP NUT, M6, 316 SST	17	5.2
7	100117-4	FA,SEMS,PH,XRES,M6X25,SST,PASS	17	5.2
8	100521-19	WSHR,FLAT,M5,5.3X10X1,SST,PASS	16	5.2
9	100522-19	WSHR,LK,SPLT, M5,SST, PASS	16	5.2
10	100534-356	SCR,HCS,HEX,M5X12,SST,PASS	16	5.2
11	100534-214	SCR,HCS,HEX,M6X20,SST,PASS	4	5.2
12	100522-104	WSHR,LK,SPLT, M6,SST, PASS	4	5.2
13	100521-86	WSHR,FLAT,M6,6.4X12X1.6,SST,PASS	4	5.2
14	100526-25	NUTS,HEX,M6,SST,PASS	4	5.2
15	MTC9415	M8 X 25mm HEX BOLT SS	8	5.2
16	MTC9418	M8 LOCK WASHER SS	8	5.2
17	MTC9419	M8 FLAT WASHER SS	8	5.2

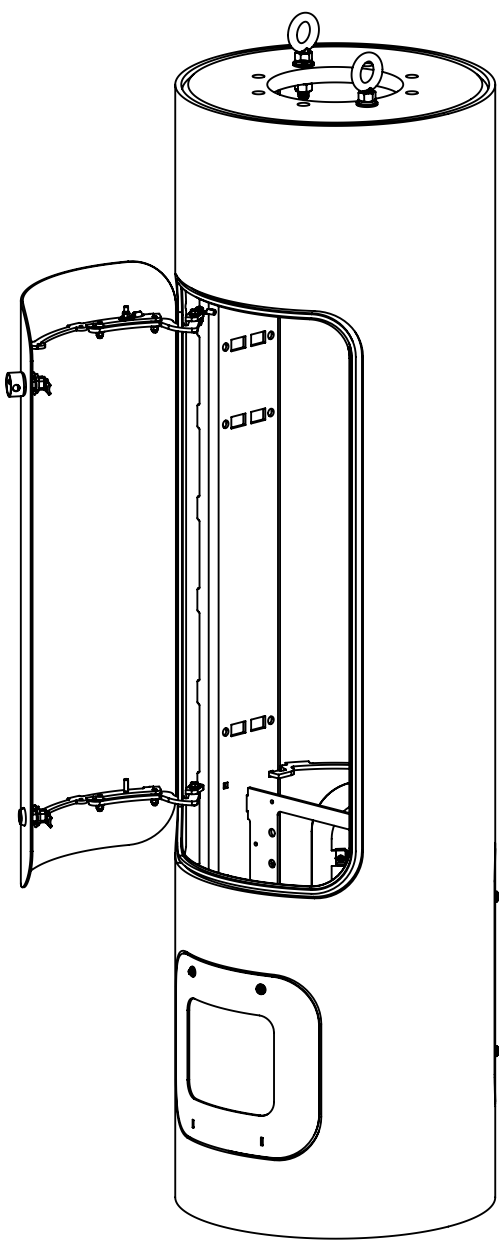
DENSITY	13.02	lbs/in³
MASS	280.15	lbs
VOLUME	4915.65	in³
SURFACE AREA		in²
HEIGHT	6.00[152.4]	
LENGTH	36.00[914.4]	
WIDTH	18.00[457.2]	

			
TOLERANCES		SAP MATERIAL MASTER	
1 PLACE .X[X] ± 0.2[6.3]	3 PLACE .XXX[X] ± 0.060[1.5]	MTM1193-9900-AMK-N	
2 PLACE .XX[X] ± 0.12[3.0]	ANGLES ± 2°		
FINISH		MATERIAL	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES INTERPRET PER ANSI Y 14.5M-1994		NAME	DATE
	CE	ZL1057	02JUL25
	RW	MS1288	05/25/2026
	AD	LX1002	05/27/2026
	RE	MS1288	06/09/2026
ECN 50108586AMO		TITLE	
		KIT NOKIA INSTALL - PB20 72" TMT RAD EXT	
		SCALE	DOCUMENT NO.
		1:8	MTM1193-9900-AMK-N
SIZE		Auth Group	INSL
C			
		MODEL	DRAWING
		VERSION	STATUS
		01	RE
		REVISION	VERSION
		B	01
		STATUS	REVISION
			B
		SHEET	
		1 OF 10	

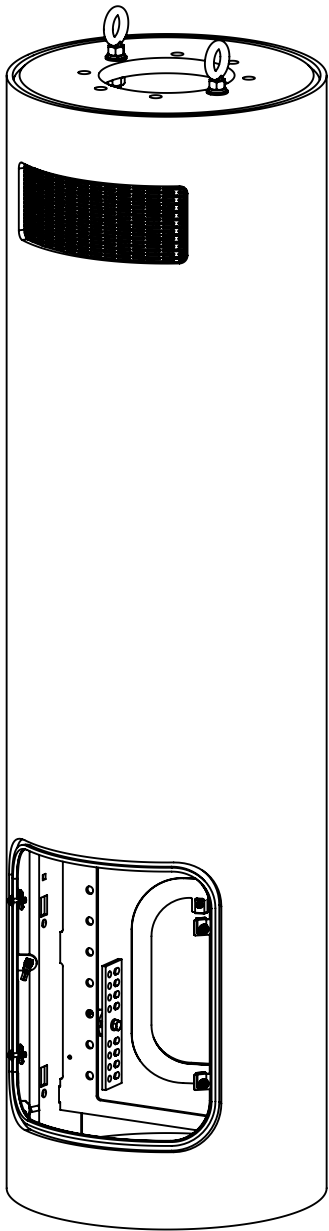
Confidential

NOKIA EQUIPMENT INSTALLATION CONFIGURATION LIST

CONFIGURATION	SHEET NO.	EQUIP.1	QTY	EQUIP.2	QTY	EQUIP.3	QTY	EQUIP.4	QTY	EQUIP.5	QTY	EQUIP.6	QTY
N1	5	AHLBBA	1							QUAD DIPLEXER SDX1926Q-43	1	APAM	1
N2	6	AHFIB	1							QUAD DIPLEXER SDX1926Q-43	1	APAM	1
N3	7	AHFB	1	AWHHF	1	AZQC	1			QUAD DIPLEXER SDX1926Q-43	1	APAM	1
N4	8	AHFB	1	AHIB	1	AZQC	1	AZRB	1	QUAD DIPLEXER SDX1926Q-43	1	APAM	1
N5	9	AHFIB	1	AWHHF	1					QUAD DIPLEXER SDX1926Q-43	1	APAM	1
N6	10	AZHL	1							QUAD DIPLEXER SDX1926Q-43	1	APAM	1



FRONT VIEW



REAR VIEW

ESTABLISH NOKIA CONFIGURATION FROM ABOVE TABLE TO INSTALL DESIRED NOKIA RADIOS IN THE PB20
SEE SHEET 3 & 4 FOR DETAILED SECURING OF RADIOS & DIPLEXERS TO BRACKETS.
SEE SPECIFIC SHEET NUMBER FOR FURTHER INSTALLATION DETAILS.

Confidential



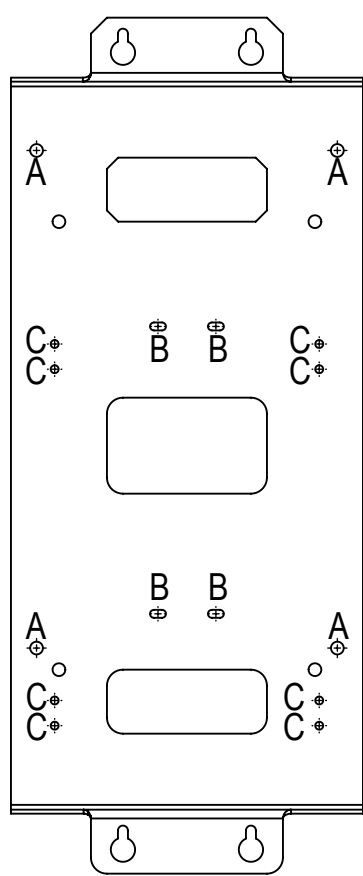
TITLE

KIT NOKIA INSTALL - PB20 72" TMT RAD EXT

SIZE	SCALE	DOCUMENT NO.			
C	1:12	MTM1193-9900-AMK-N			
 		DRAWING			SHEET 2 OF 10
		VERSION	STATUS	REVISION	
		01	RE	B	

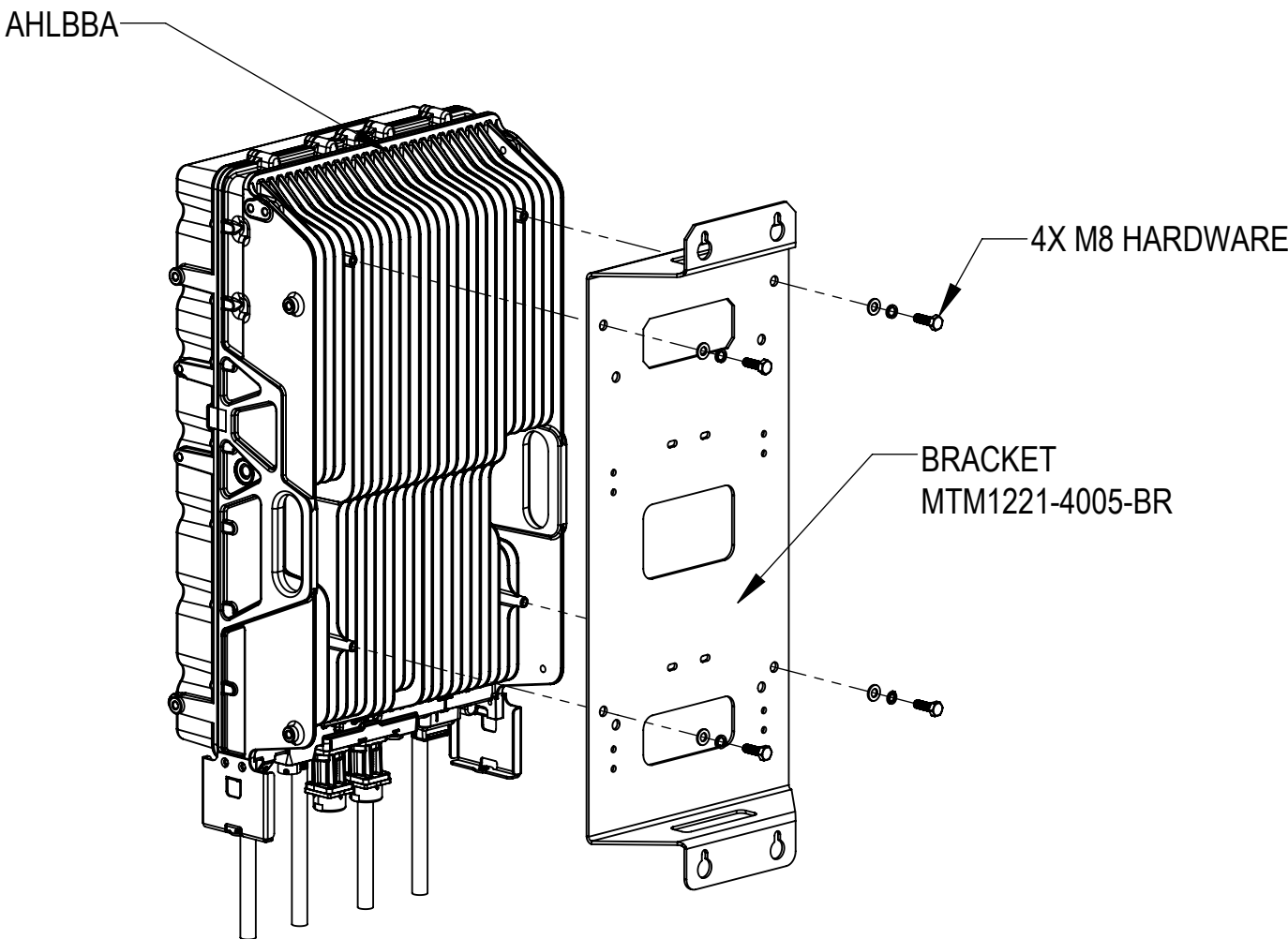
EQUIPMENT MOUNTING INSTALLATION

TORQUE ALL TO SPEC



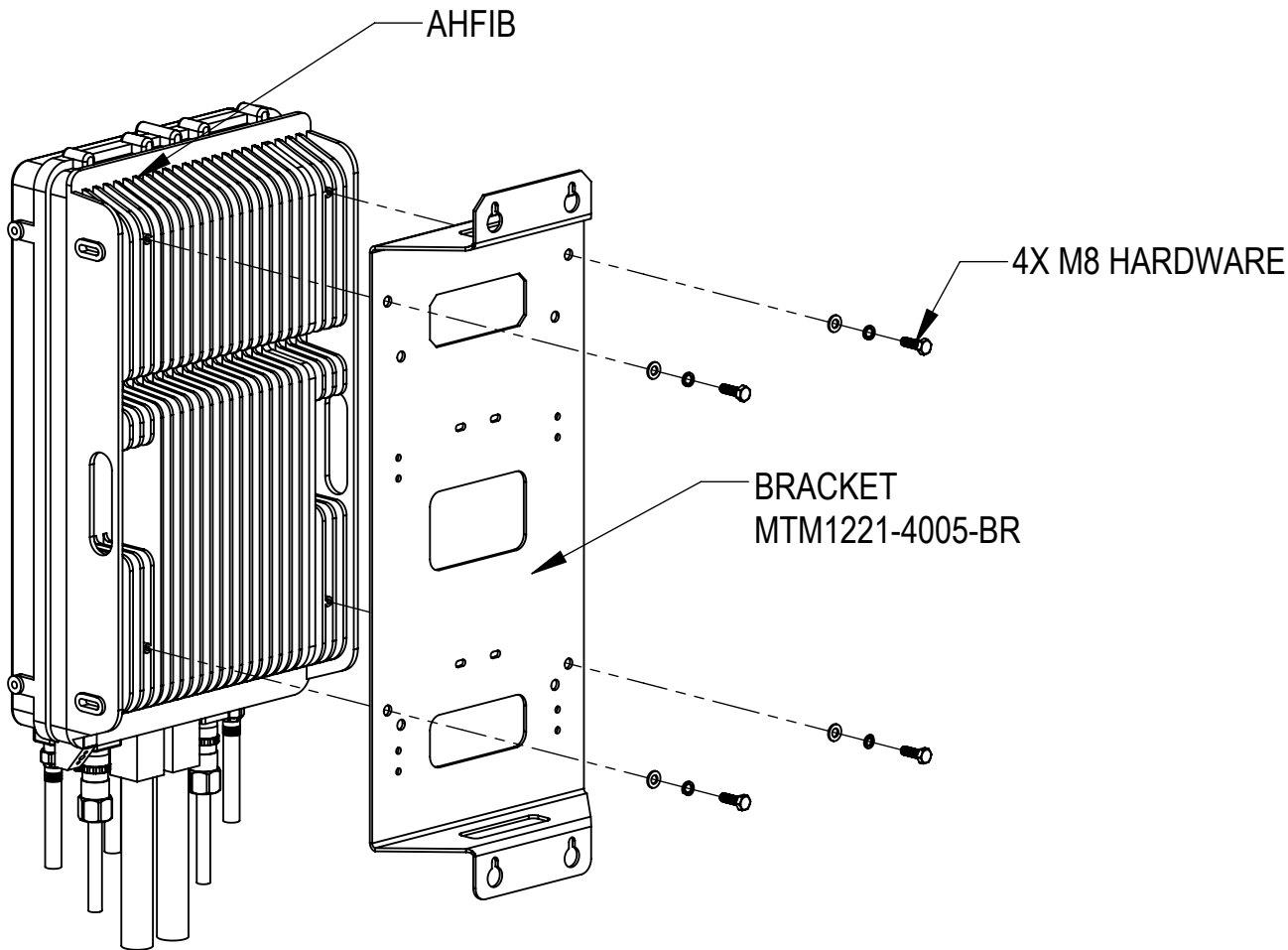
RADIO INSTALLATION
MTM1221-4005-BR

"A": AHLBBA + AHFIB
"B": AHFB + AHIB
"C": AZHL



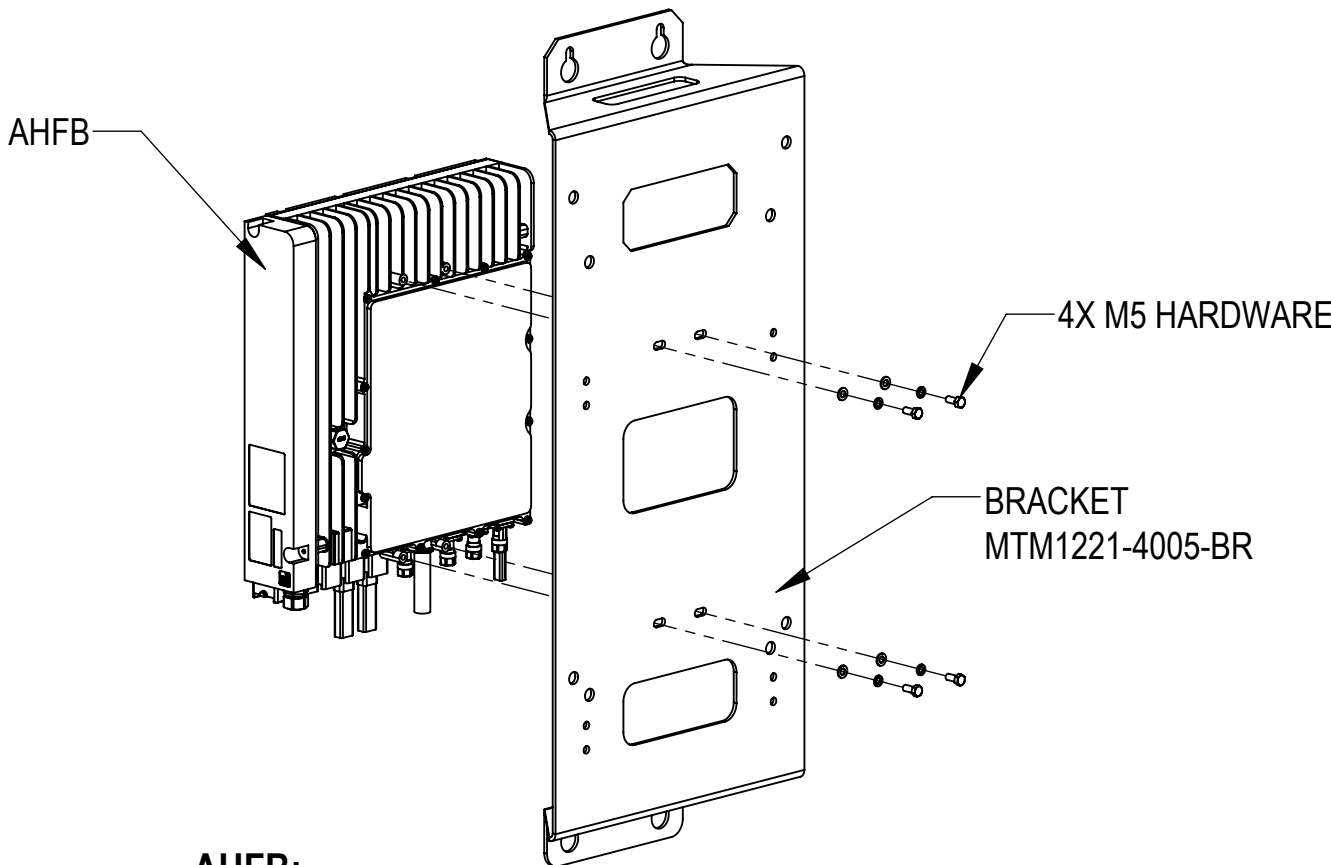
AHLBBA:

INSTALL THE AHLBBA TO THE MOUNTING BRACKET MTM1221-4005-BR USING 4 SETS OF M8 HEX BOLTS, LOCK WASHERS AND FLAT WASHERS AS SHOWN



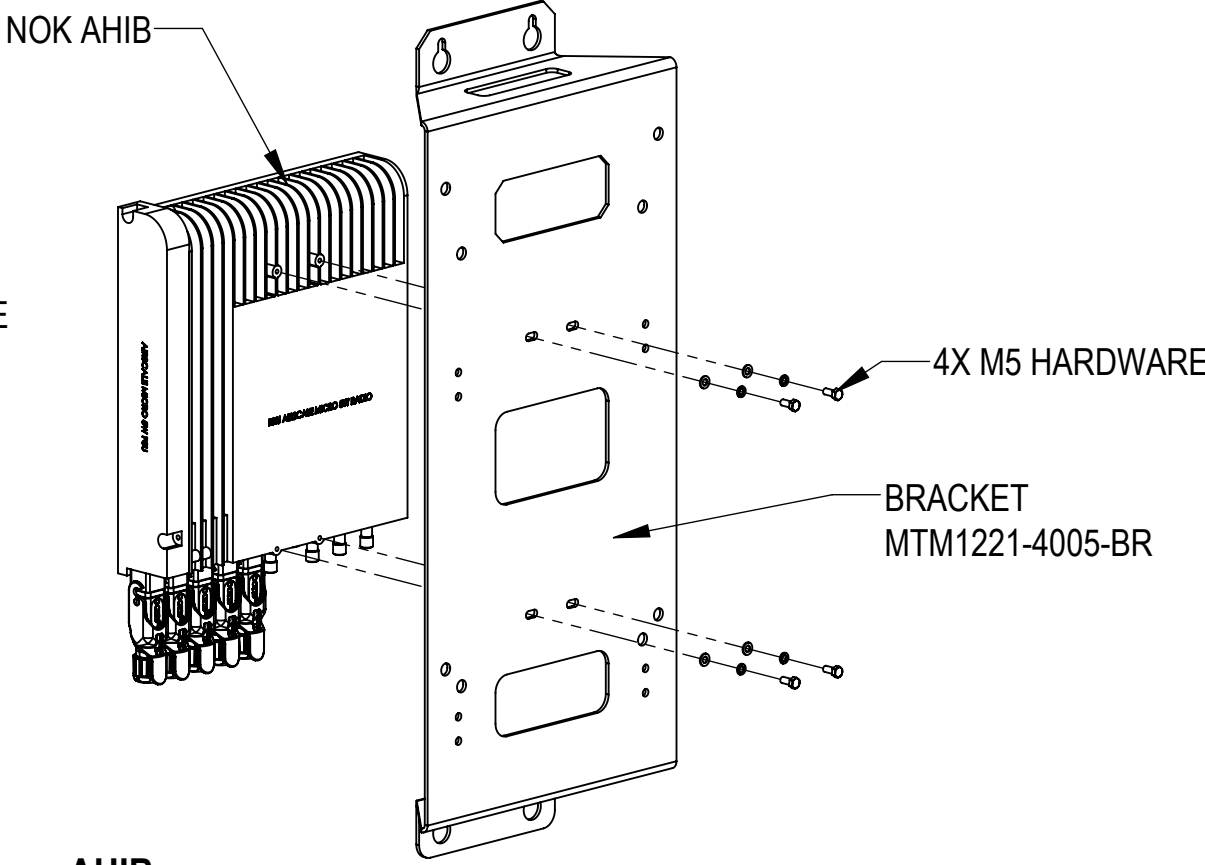
AHFIB:

INSTALL THE AHFIB TO THE MOUNTING BRACKET MTM1221-4005-BR USING 4 SETS OF M8 HEX BOLTS, LOCK WASHERS AND FLAT WASHERS AS SHOWN



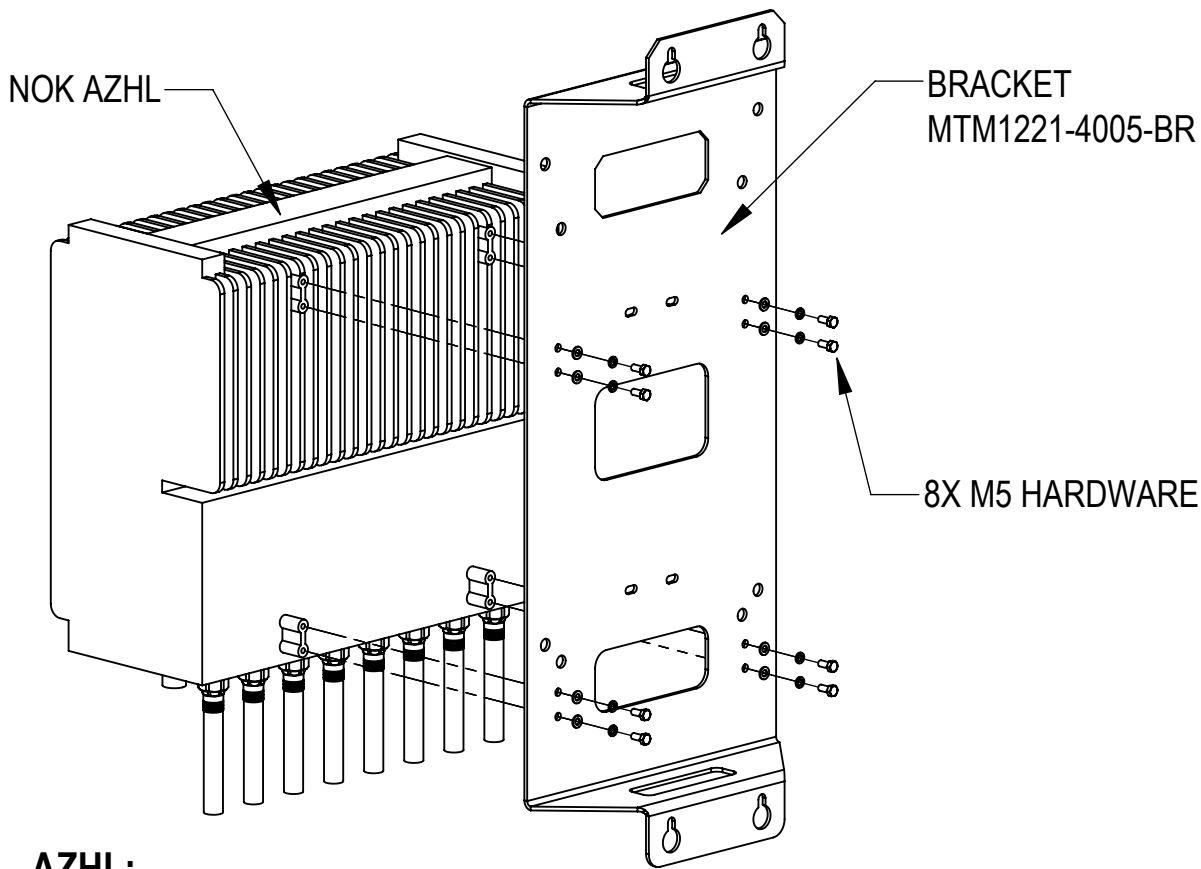
AHFB:

INSTALL THE AHFB TO THE MOUNTING BRACKET MTM1221-4005-BR USING 4 SETS OF M5 HEX BOLTS, LOCK WASHERS AND FLAT WASHERS AS SHOWN



AHIB:

INSTALL THE AHIB TO THE MOUNTING BRACKET MTM1221-4005-BR USING 4 SETS OF M5 HEX BOLTS, LOCK WASHERS AND FLAT WASHERS AS SHOWN



AZHL:

INSTALL THE AZHL TO THE MOUNTING BRACKET MTM1221-4005-BR USING 8 SETS OF M5 HEX BOLTS, LOCK WASHERS AND FLAT WASHERS AS SHOWN

ANDREW an Amphenol company

TITLE
KIT NOKIA INSTALL - PB20 72" TMT RAD EXT

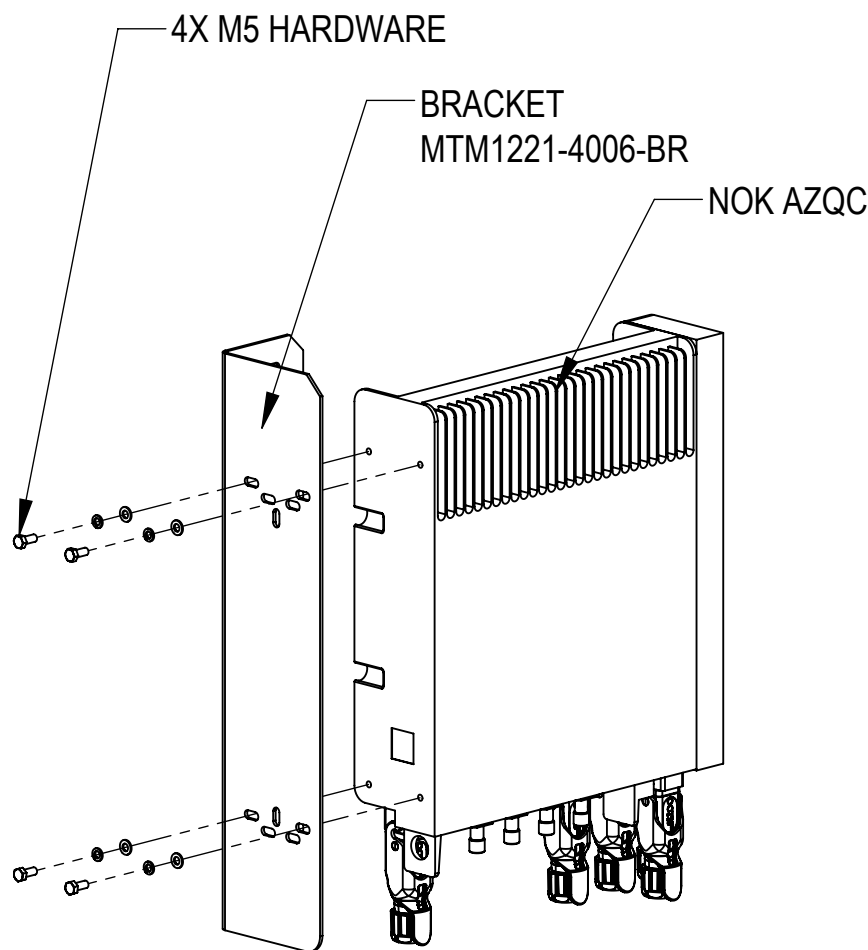
SIZE **C** SCALE **1:4** DOCUMENT NO.
MTM1193-9900-AMK-N

DRAWING			SHEET 3 OF 10
VERSION	STATUS	REVISION	
01	RE	B	

Confidential

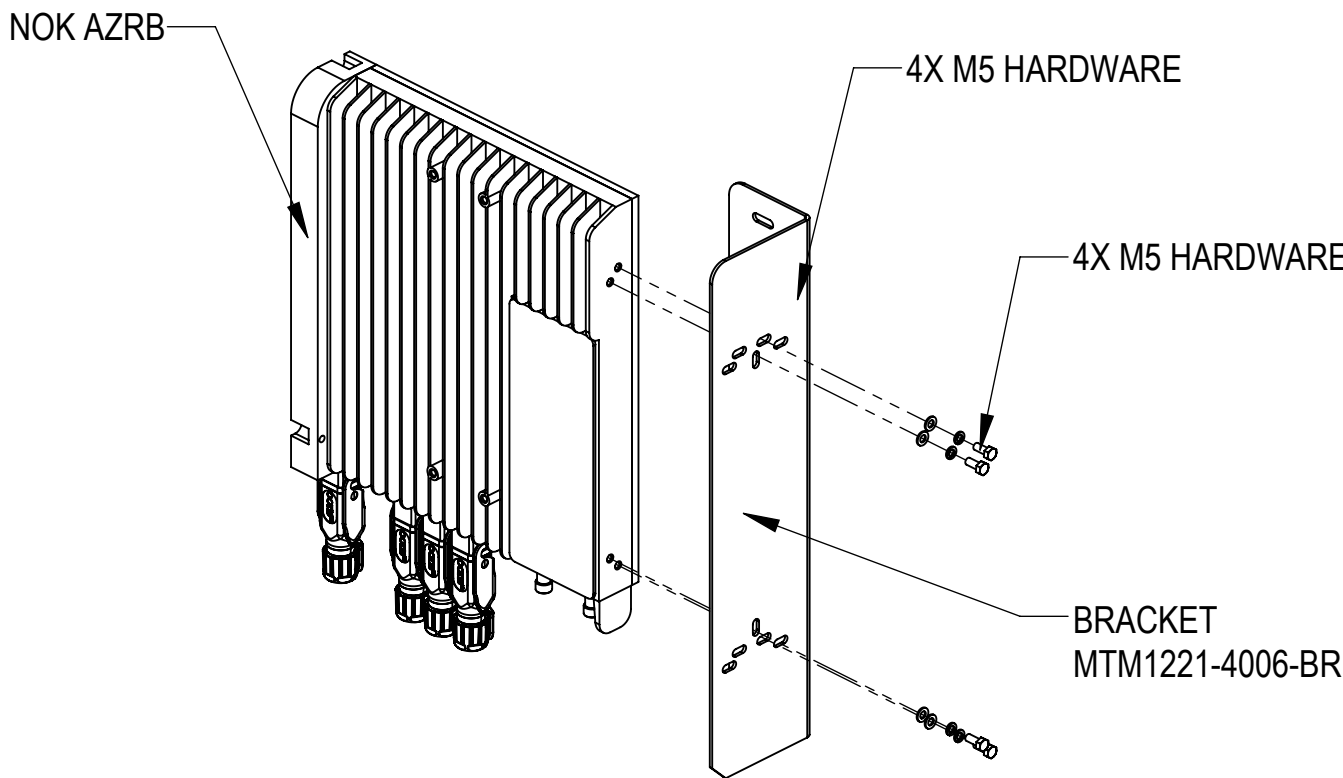
EQUIPMENT MOUNTING INSTALLATION

TORQUE ALL TO SPEC



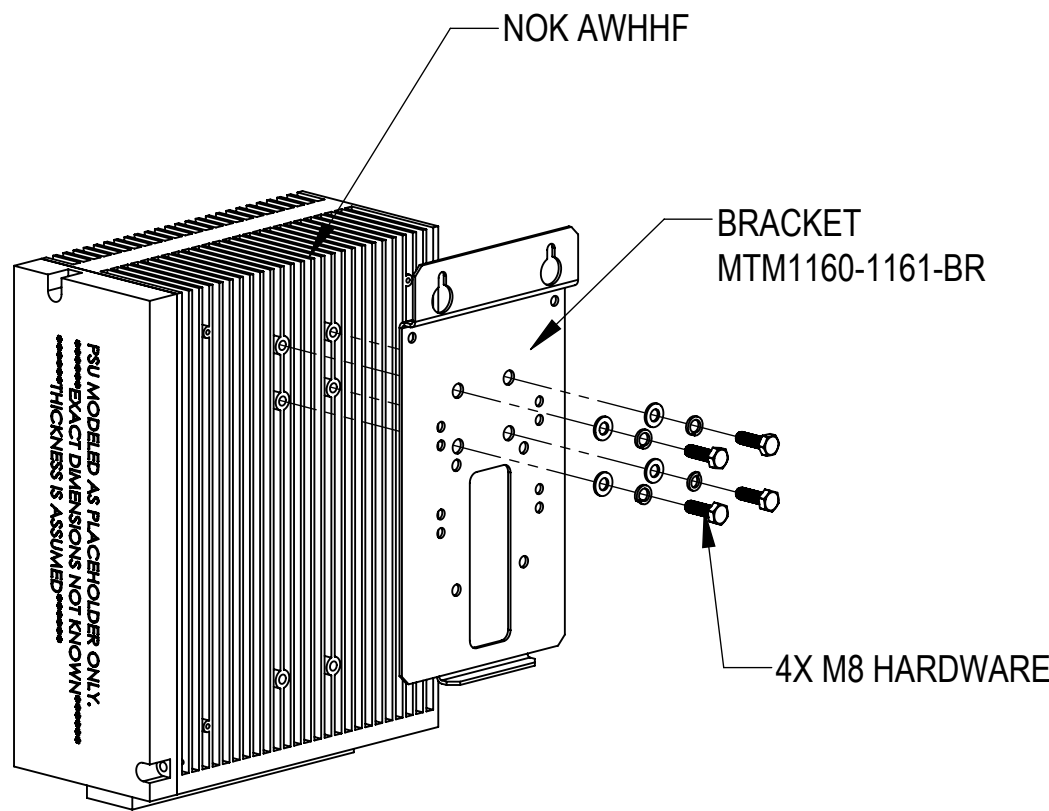
AZQC:

INSTALL THE AZQC TO THE MOUNTING BRACKET MTM1221-4006-BR USING 4 SETS OF M5 HEX BOLTS, LOCK WASHERS AND FLAT WASHERS AS SHOWN



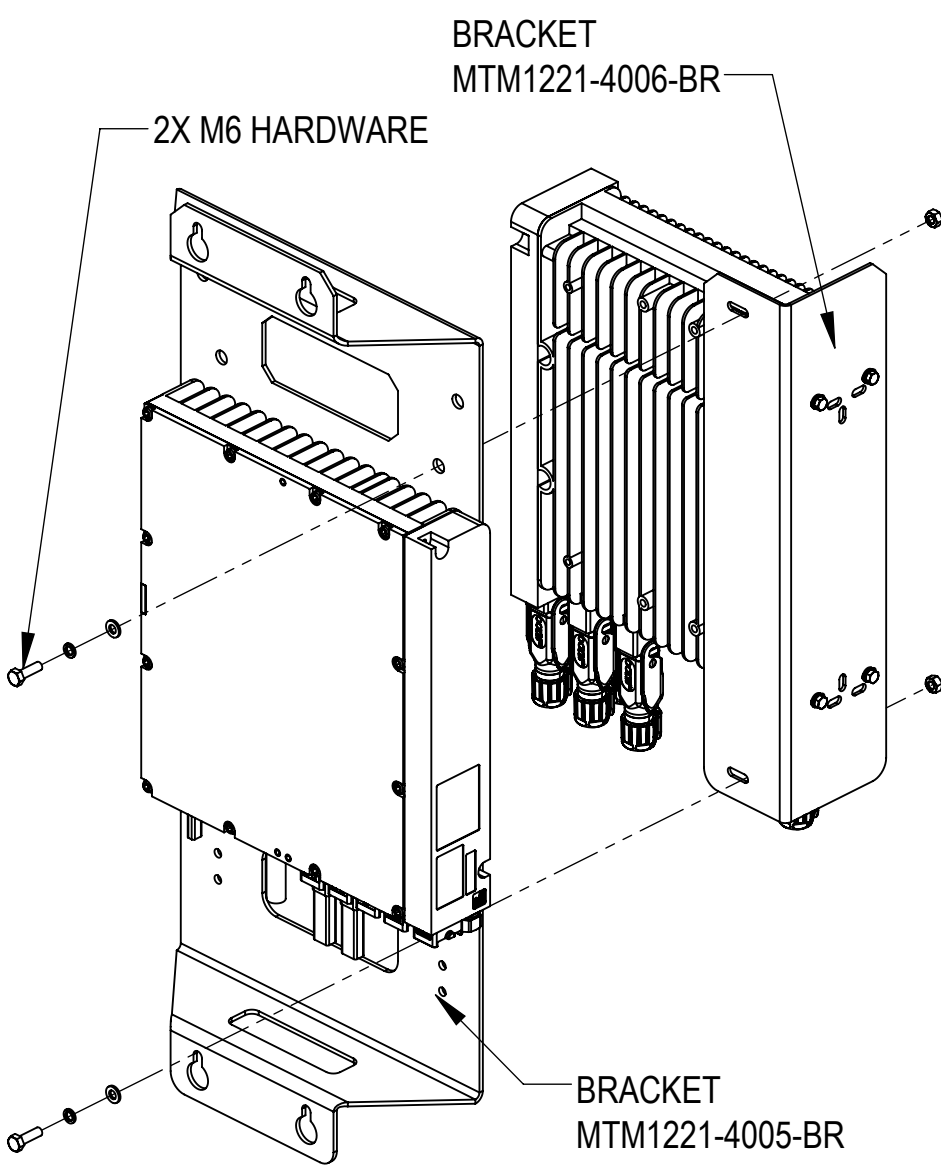
AZRB:

INSTALL THE AHFB TO THE MOUNTING BRACKET MTM1221-4006-BR USING 4 SETS OF M5 HEX BOLTS, LOCK WASHERS AND FLAT WASHERS AS SHOWN



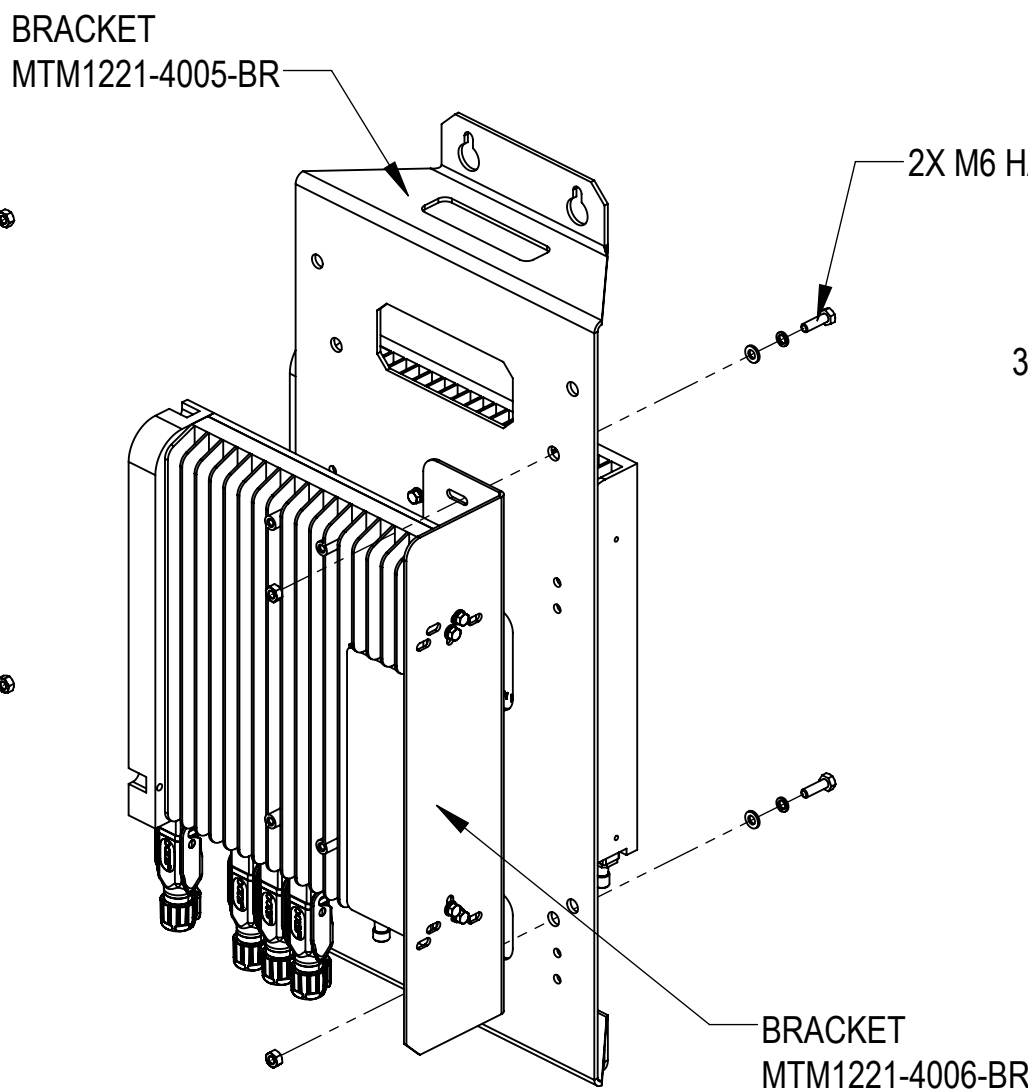
AWHHF:

INSTALL THE AWHHF TO THE MOUNTING BRACKET MTM1160-1161-BR USING 4 SETS OF M8 HEX BOLTS, LOCK WASHERS AND FLAT WASHERS AS SHOWN



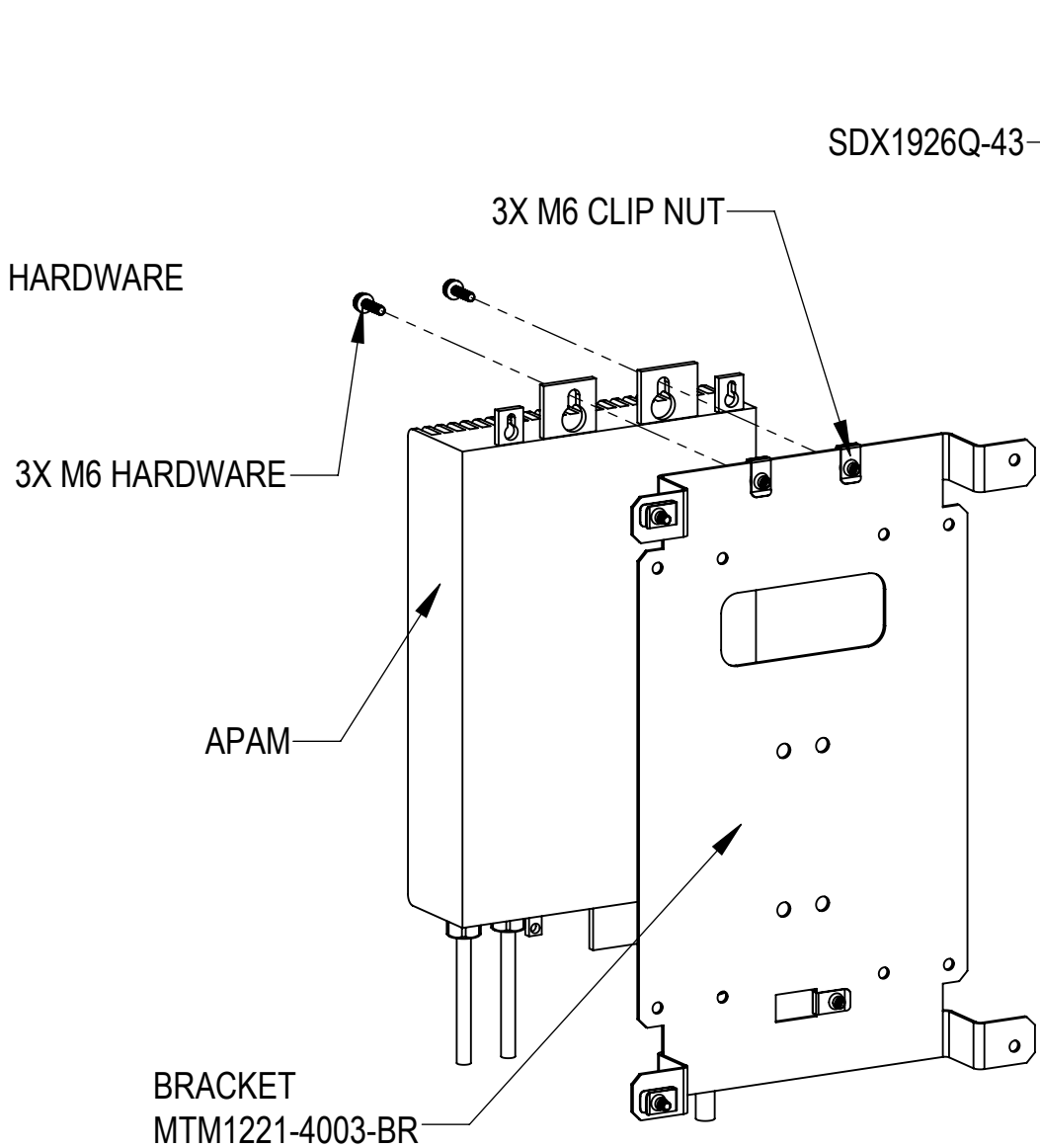
AHFB+AZQC:

INSTALL MTM1221-4006-BR TO THE MOUNTING BRACKET MTM1221-4005-BR USING 2 SETS OF M6 HEX BOLTS, LOCK WASHERS AND FLAT WASHERS AS SHOWN



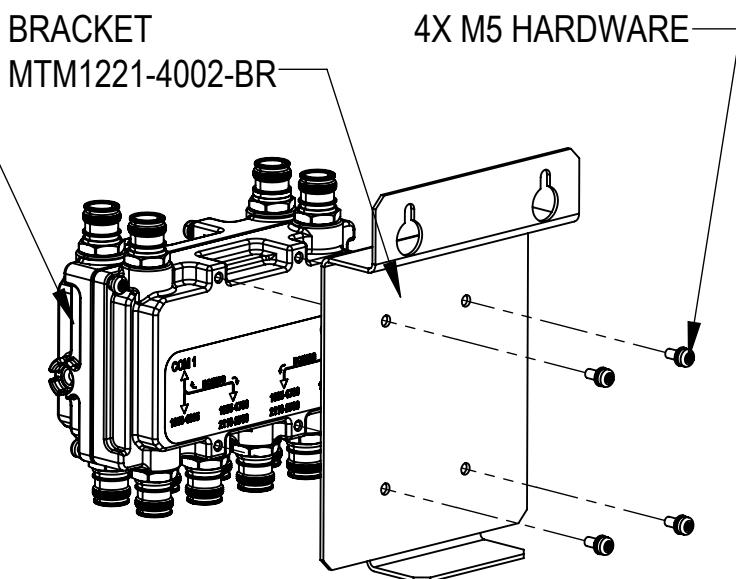
AHIB+AZRB:

INSTALL MTM1221-4006-BR TO THE MOUNTING BRACKET MTM1221-4005-BR USING 2 SETS OF M6 HEX BOLTS, LOCK WASHERS AND FLAT WASHERS AS SHOWN



APAM:

INSTALL THE APAM TO THE MOUNTING BRACKET MTM1221-4003-BR USING 4 SETS OF M5 HEX BOLTS, LOCK WASHERS AND FLAT WASHERS AS SHOWN



SDX1926Q-43:

INSTALL THE QUAD DIPLEXER SDX1926Q-43 TO THE MOUNTING BRACKET MTM1221-4002-BR USING 4 SETS OF M5 CAPTIVE SEM SCREWS PROVIDED WITH THE SDX1926Q-43



TITLE
KIT NOKIA INSTALL - PB20 72" TMT RAD EXT

SIZE
C

SCALE
1:4

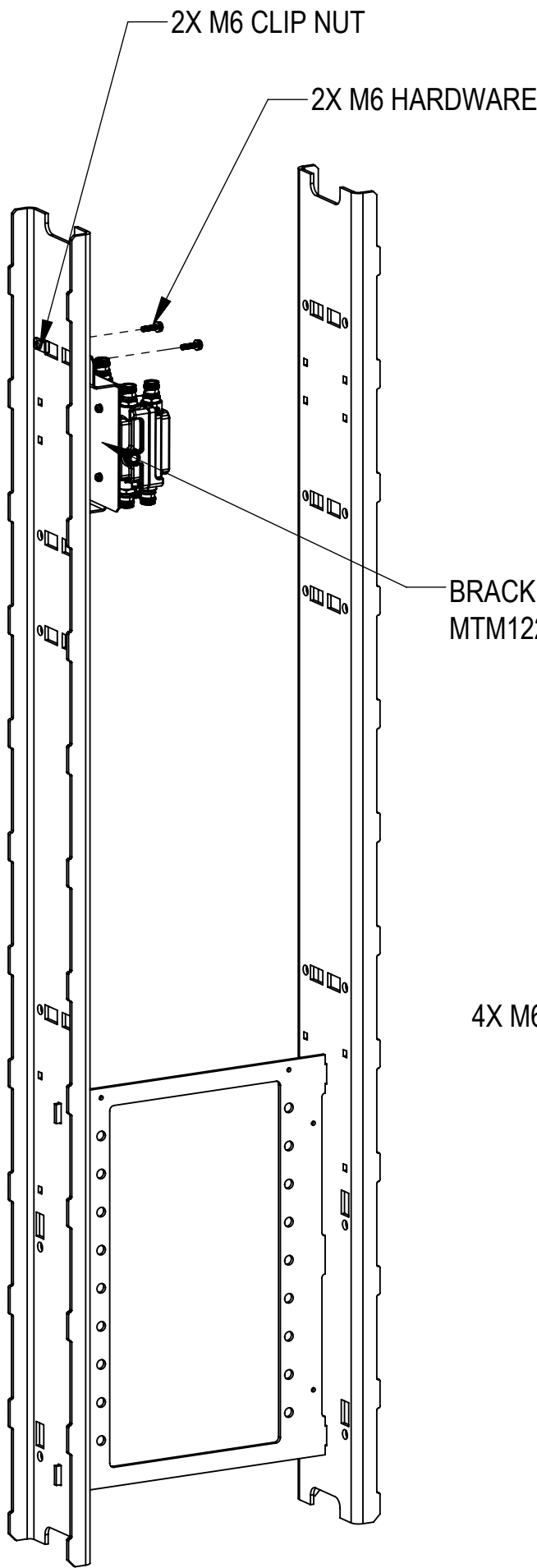
DOCUMENT NO.
MTM1193-9900-AMK-N

DRAWING			SHEET 4 OF 10
VERSION	STATUS	REVISION	
01	RE	B	

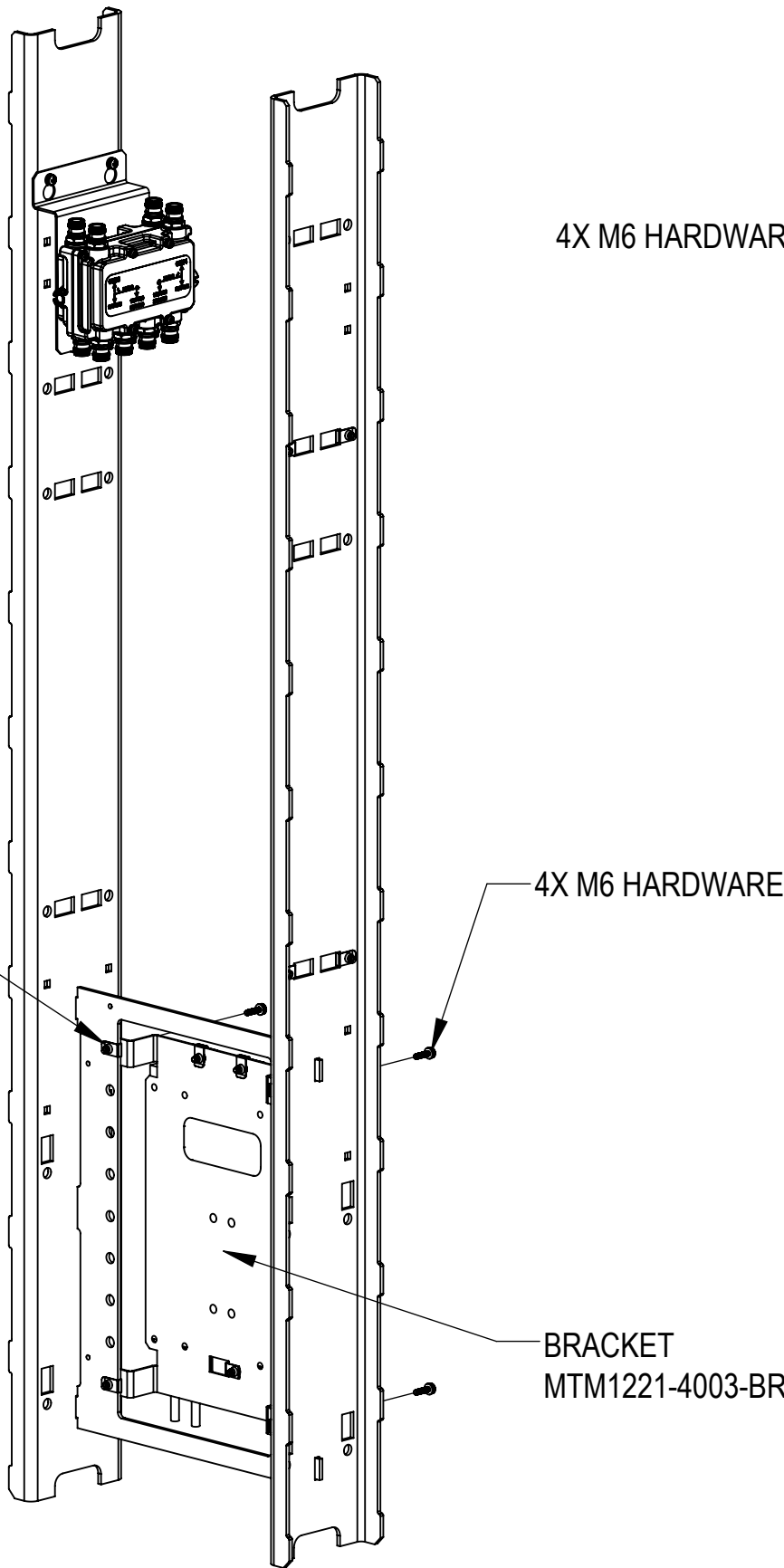
Confidential

N1: NOK AHLBBA + QUAD DIPLEXER SDX1926Q-43 + APAM INSTALLATION

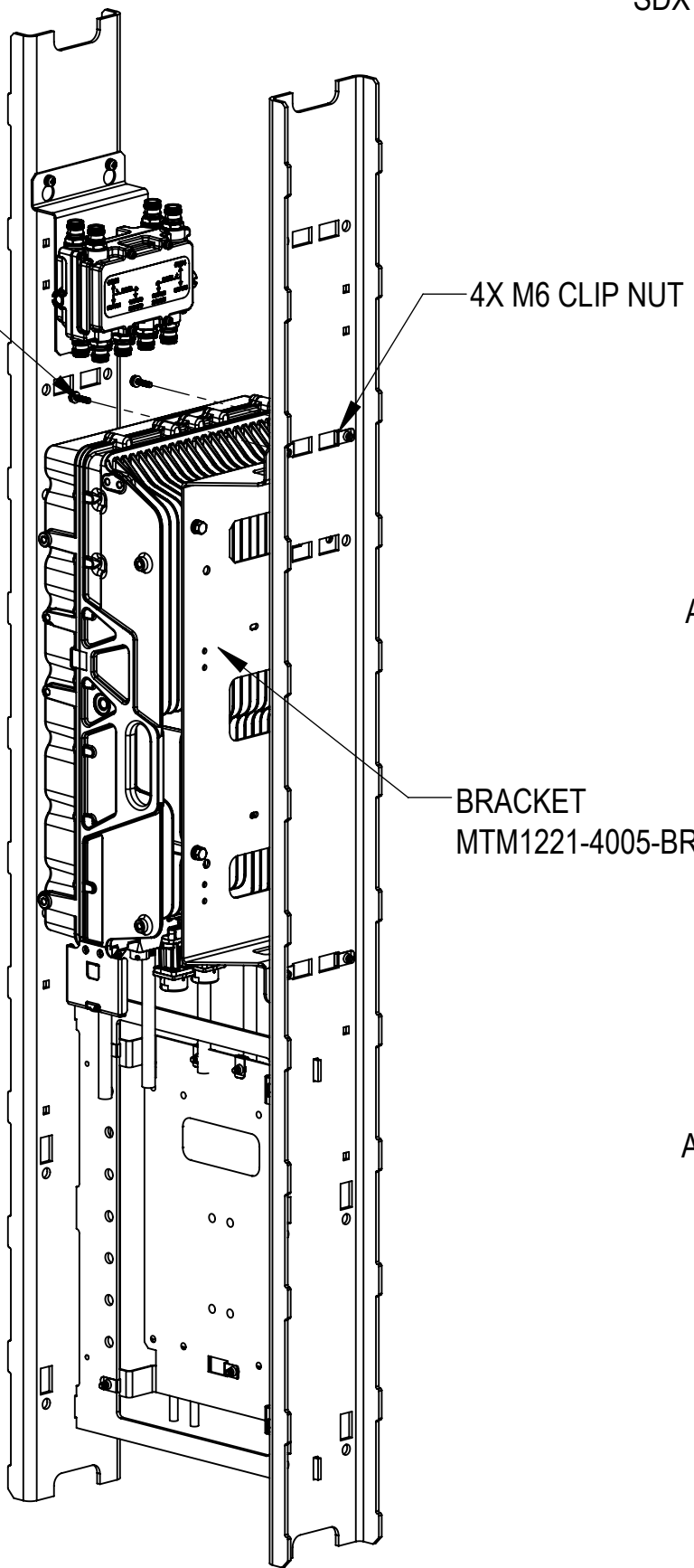
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TORQUE ALL TO SPEC



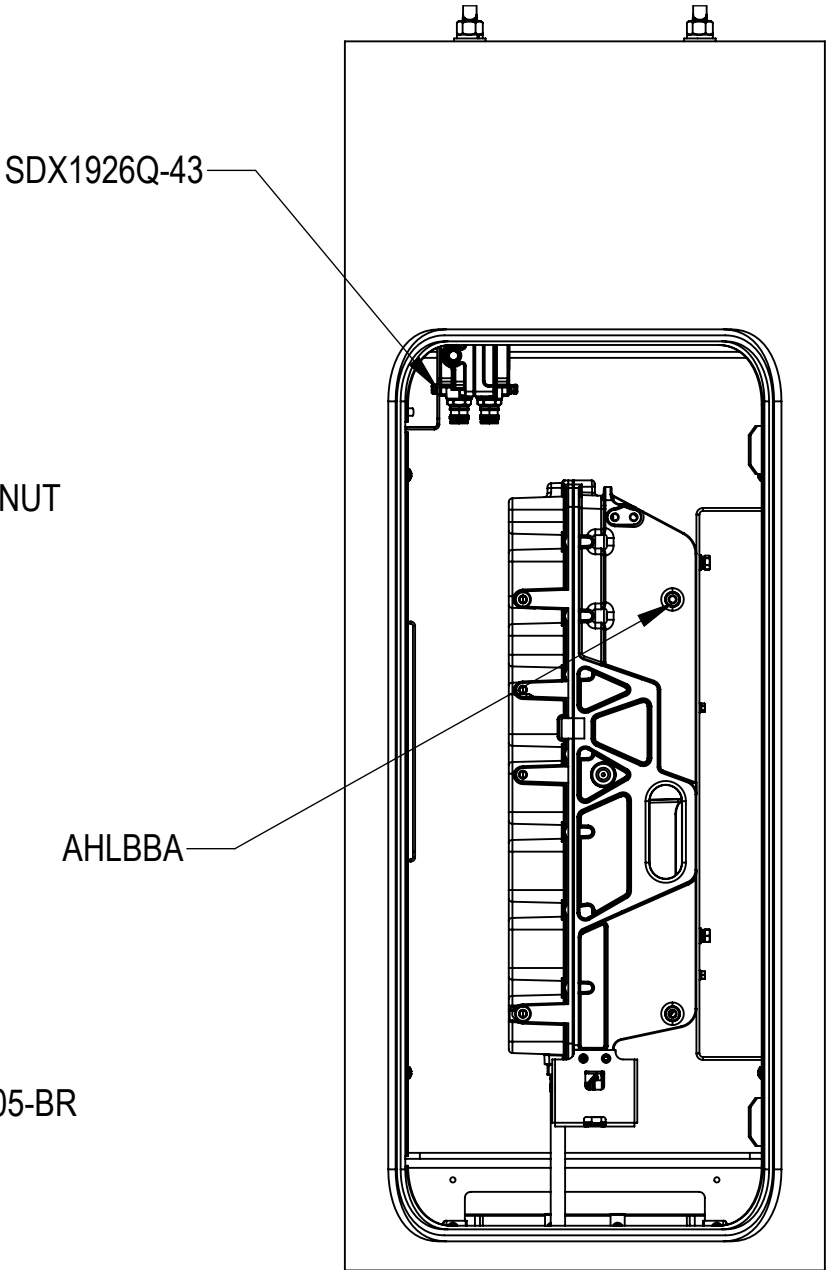
STEP 1 :
MTM1221-4002-BR(SDX1926Q-43)
1. INSTALL THE MOUNTING BRACKET MTM1221-4002-BR
TO THE STRUT INSIDE THE POLE USING 2 SETS OF M6 SEMS
SCREWS AND CLIP NUTS



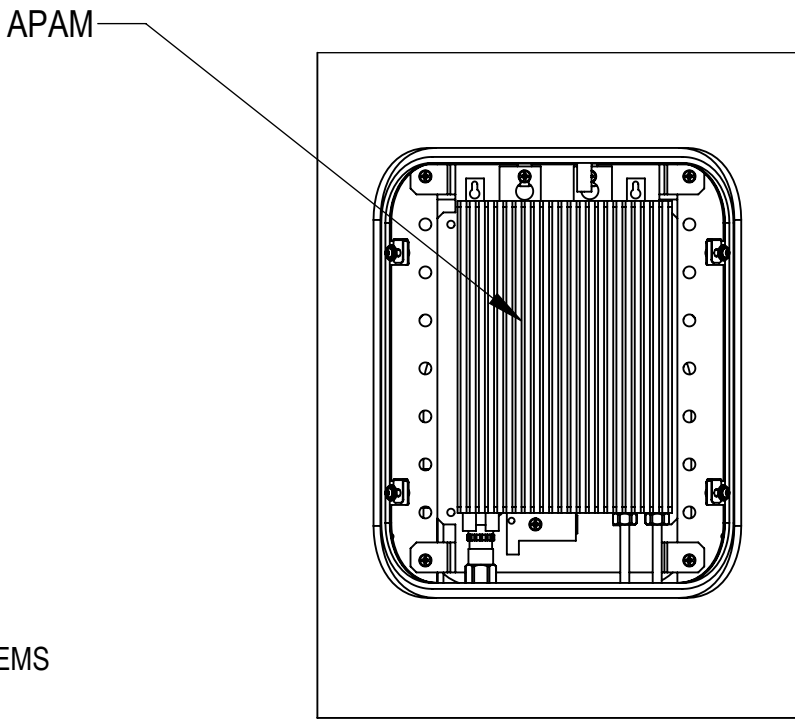
STEP 2 :
MTM1221-4003-BR(APAM)
1. INSTALL THE MOUNTING BRACKET MTM1221-4003-BR
TO THE BRACKET INSIDE THE POLE USING 4 SETS OF M6
SEMS SCREWS AND CLIP NUTS



STEP 3 :
MTM1221-4005-BR(AHLBBA)
1. INSTALL THE MOUNTING BRACKET MTM1221-4005-BR
TO THE STRUT INSIDE THE POLE USING 4 SETS OF M6 SEMS
SCREWS AND CLIP NUTS



FRONT VIEW



REAR VIEW

ANDREW an Amphenol company

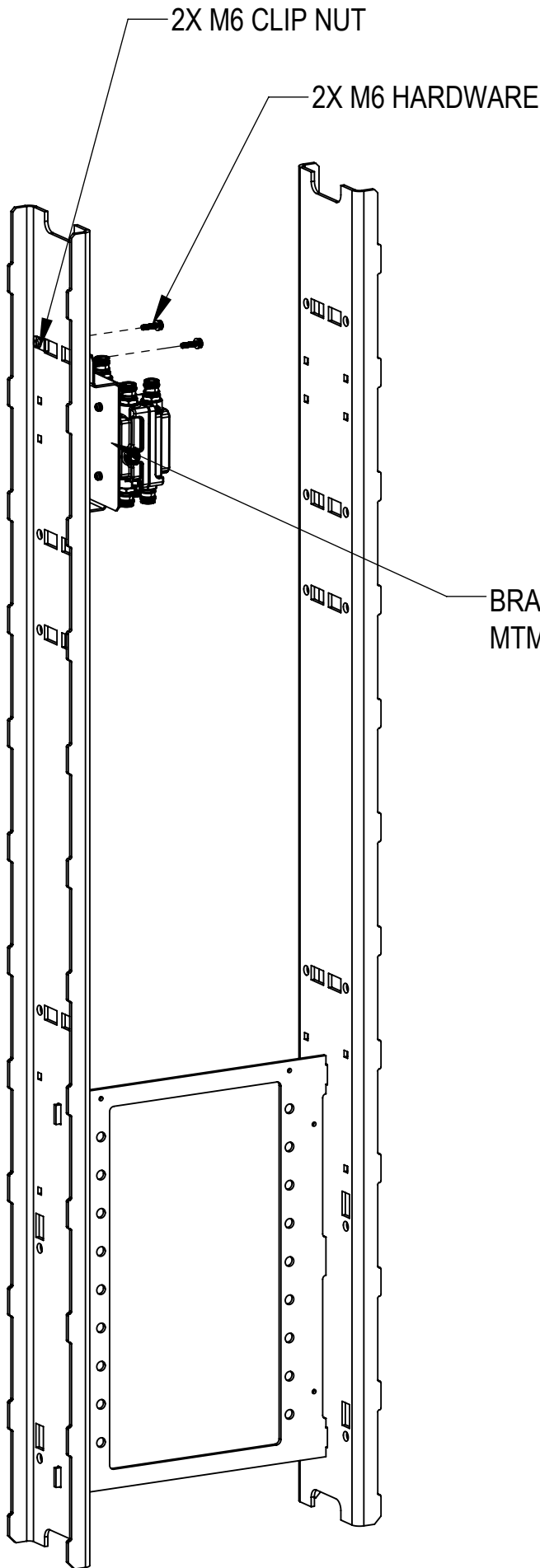
TITLE
KIT NOKIA INSTALL - PB20 72" TMT RAD EXT

SIZE C	SCALE 1:10	DOCUMENT NO. MTM1193-9900-AMK-N	DRAWING			SHEET 5 OF 10
		VERSION 01		STATUS RE	REVISION B	

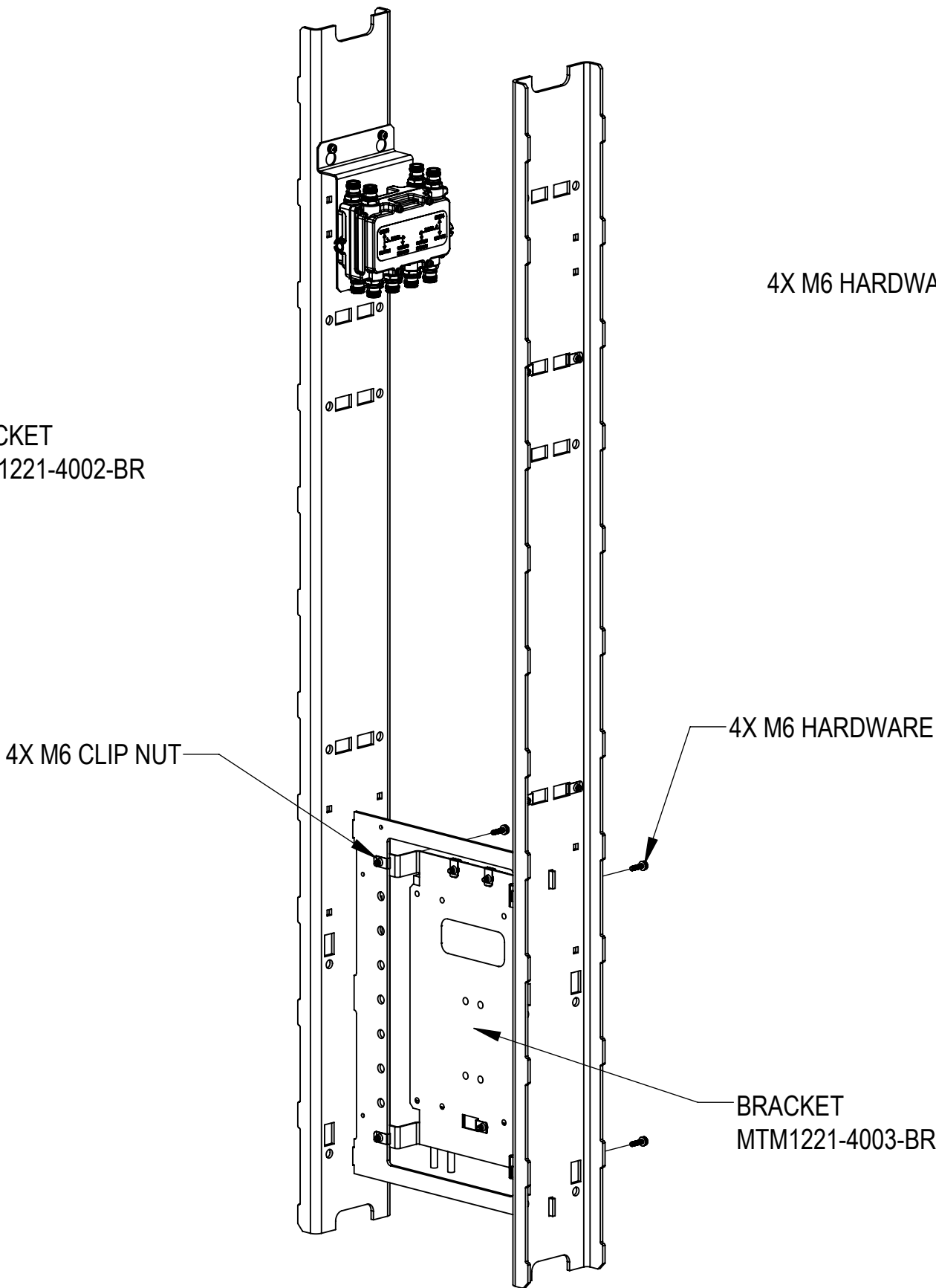
Confidential

N2: NOK AHFIB + QUAD DIPLEXER SDX1926Q-43 + APAM INSTALLATION

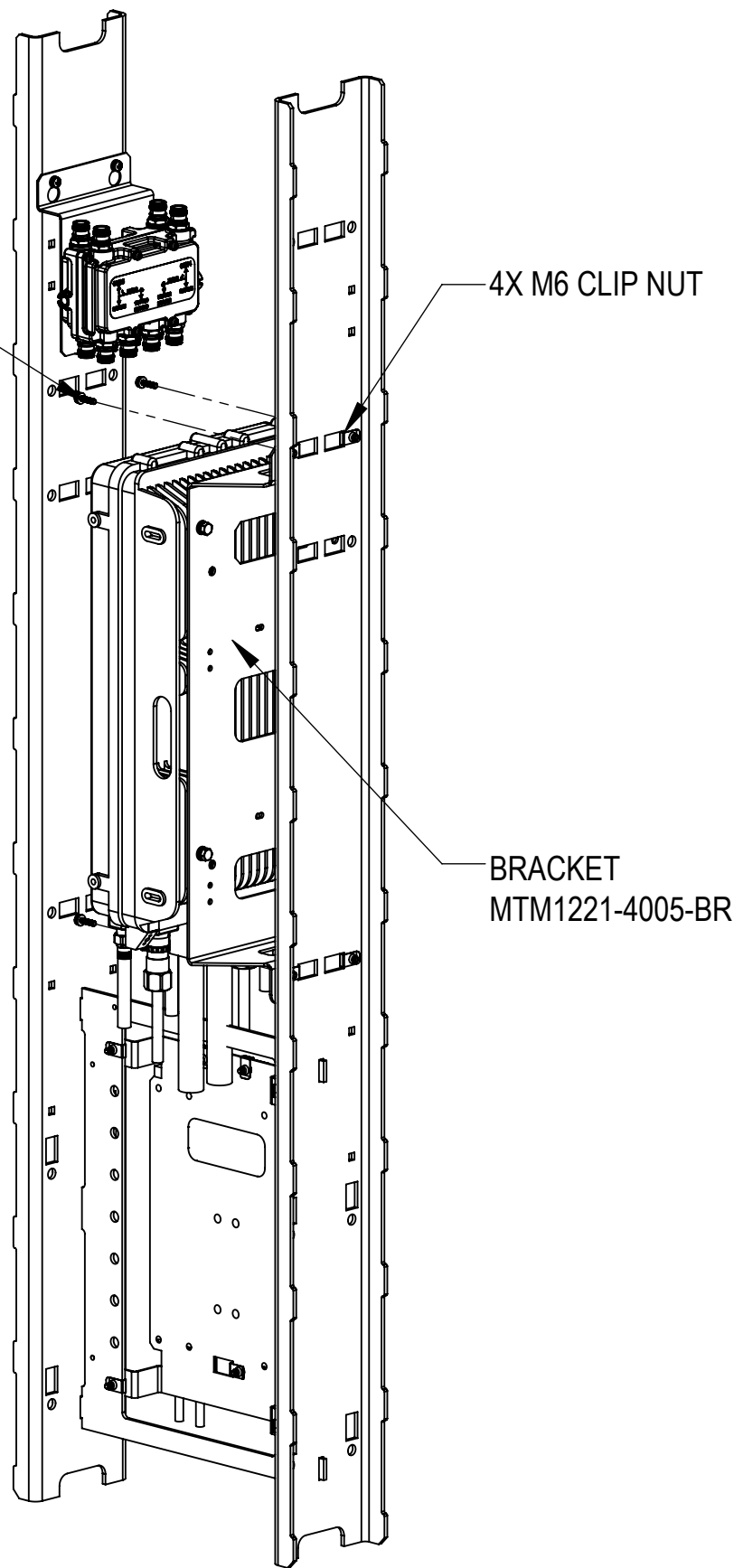
EQUIPMENT INSTALLATION SEE SHEET 3 & 4
TORQUE ALL TO SPEC



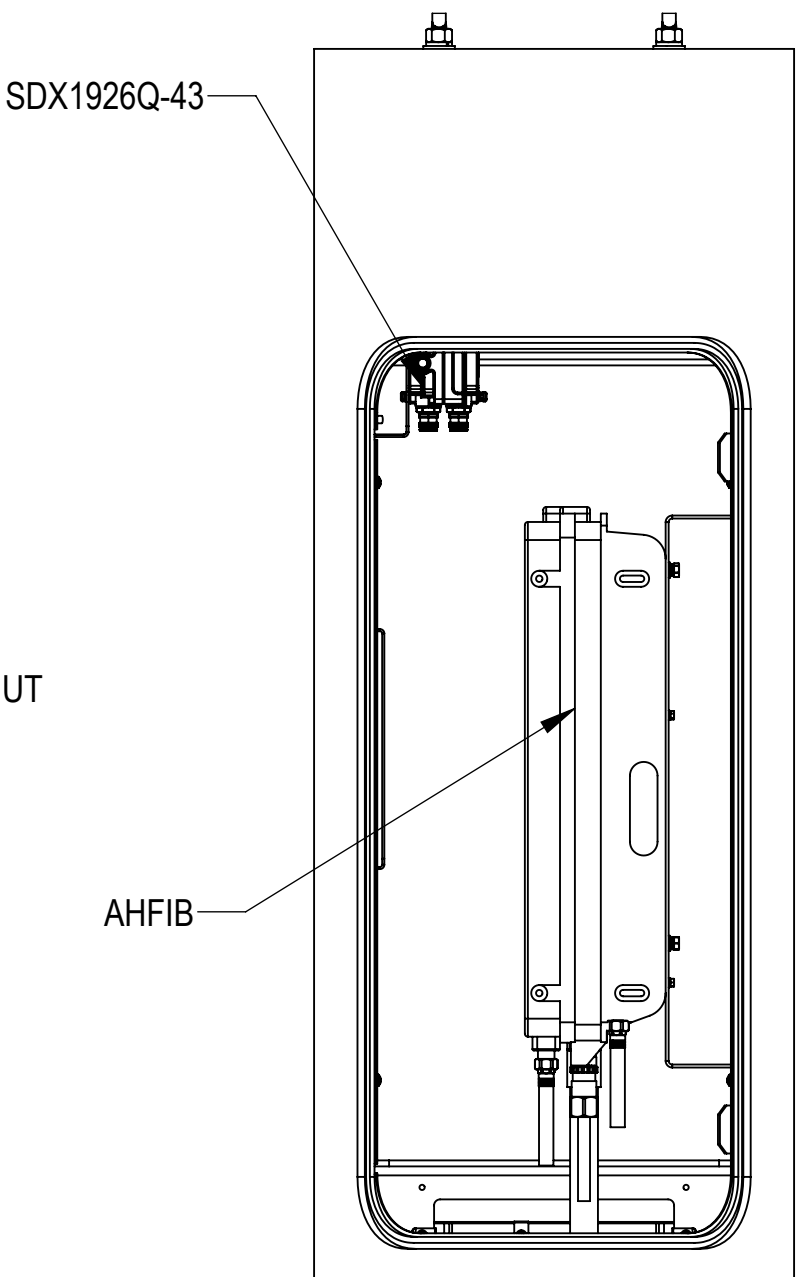
STEP 1 :
MTM1221-4002-BR(SDX1926Q-43)
1. INSTALL THE MOUNTING BRACKET MTM1221-4002-BR TO THE STRUT INSIDE THE POLE USING 2 SETS OF M6 SEMS SCREWS AND CLIP NUTS



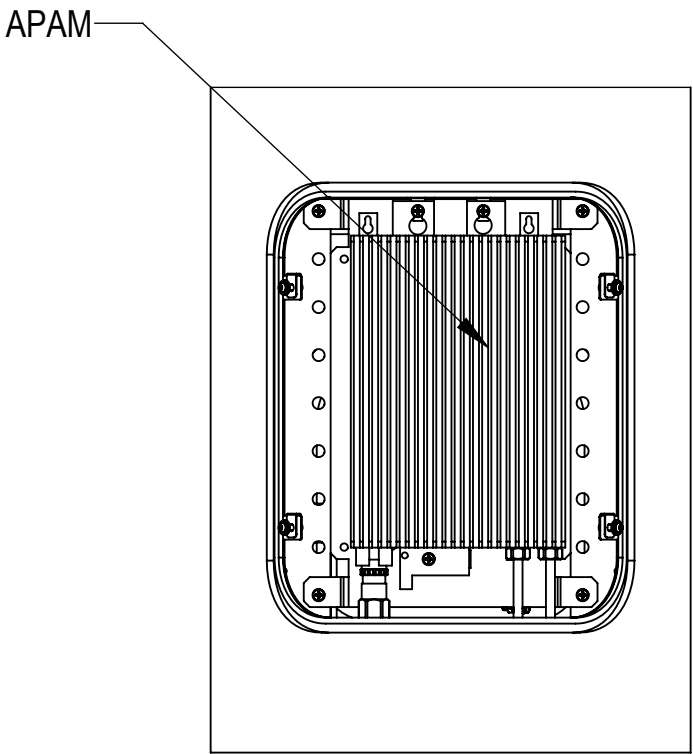
STEP 2 :
MTM1221-4003-BR(APAM)
1. INSTALL THE MOUNTING BRACKET MTM1221-4003-BR TO THE BRACKET INSIDE THE POLE USING 4 SETS OF M6 SEMS SCREWS AND CLIP NUTS



STEP 3 :
MTM1221-4005-BR(AHFIB)
1. INSTALL THE MOUNTING BRACKET MTM1221-4005-BR TO THE STRUT INSIDE THE POLE USING 4 SETS OF M6 SEMS SCREWS AND CLIP NUTS



FRONT VIEW



REAR VIEW

ANDREW an Amphenol company

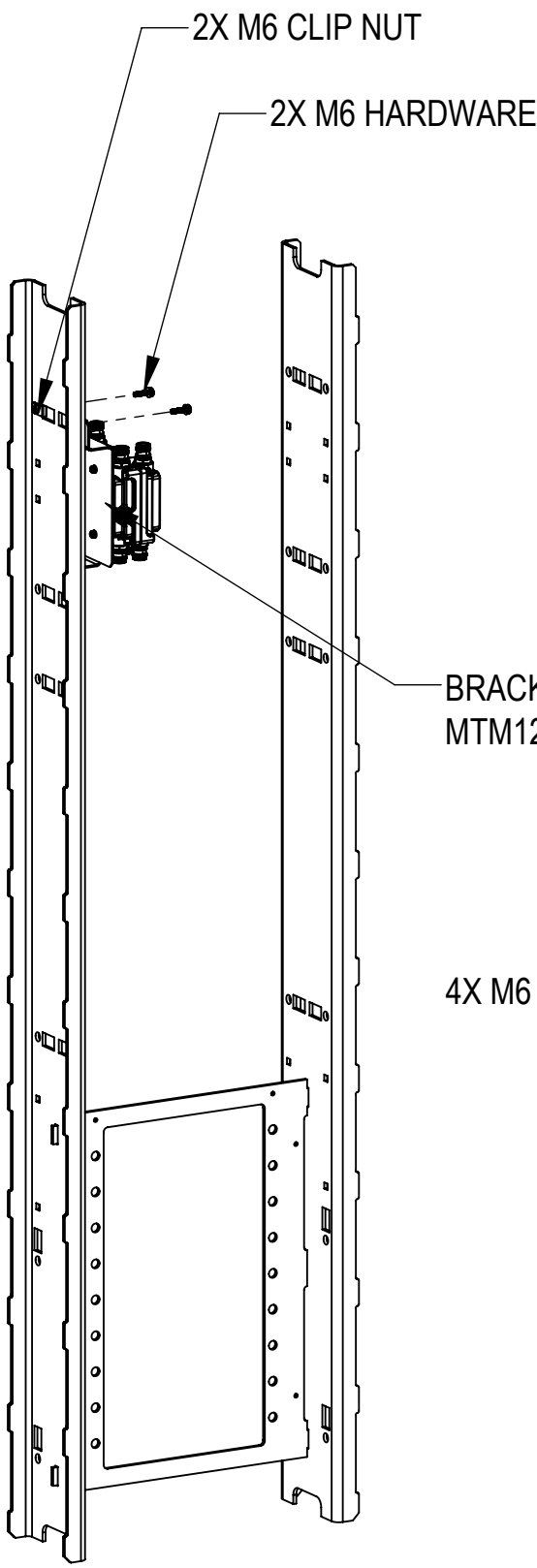
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KIT NOKIA INSTALL - PB20 72" TMT RAD EXT

SIZE	SCALE	DOCUMENT NO.
C	1:10	MTM1193-9900-AMK-N
DRAWING		
VERSION	STATUS	REVISION
01	RE	B
SHEET 6 OF 10		

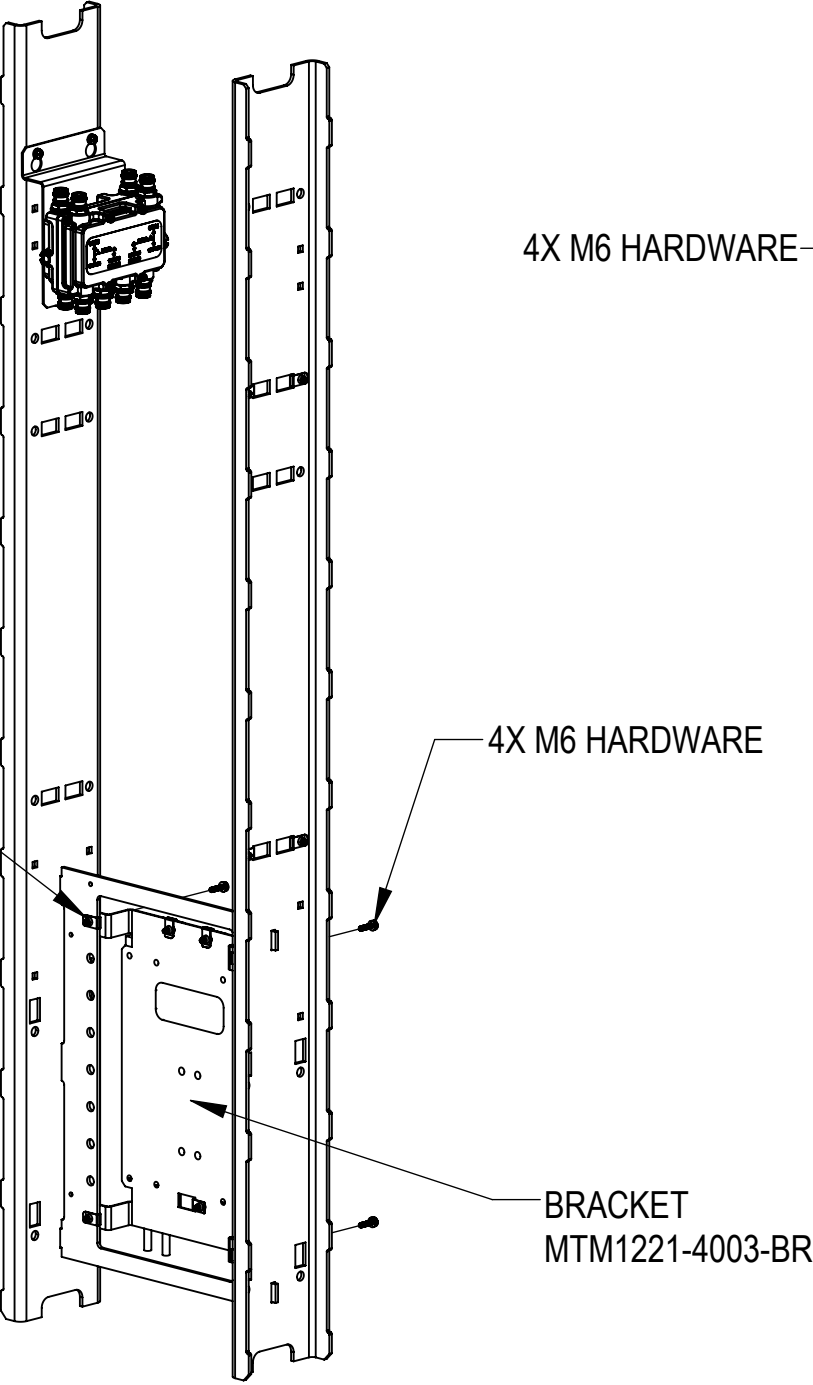
Confidential

**N3: NOK AWHHF + NOK AZQC 3.5GHZ + AHFB
+ QUAD DIPLEXER SDX1926Q-43 +APAM INSTALLATION**

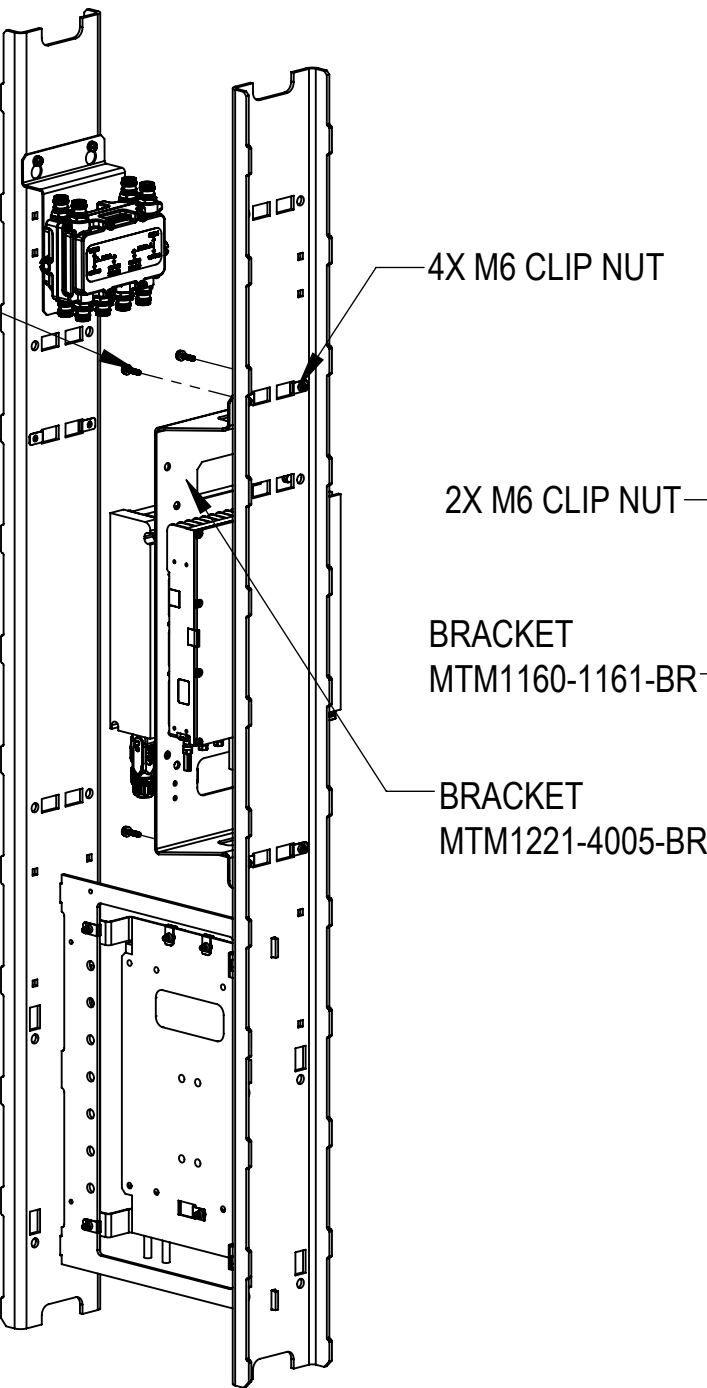
EQUIPMENT INSTALLATION SEE SHEET 3 & 4
TORQUE ALL TO SPEC



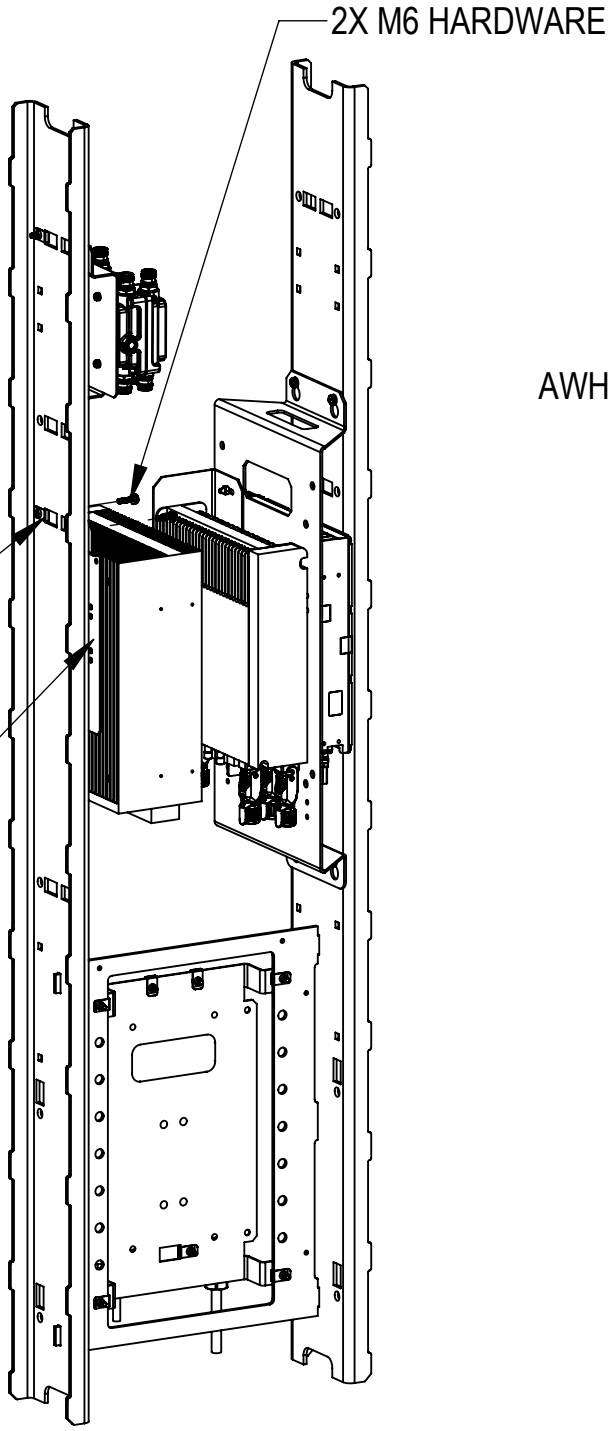
STEP 1 :
MTM1221-4002-BR(SDX1926Q-43)
1. INSTALL THE MOUNTING BRACKET MTM1221-4002-BR TO THE STRUT INSIDE THE POLE USING 2 SETS OF M6 SEMS SCREWS AND CLIP NUTS



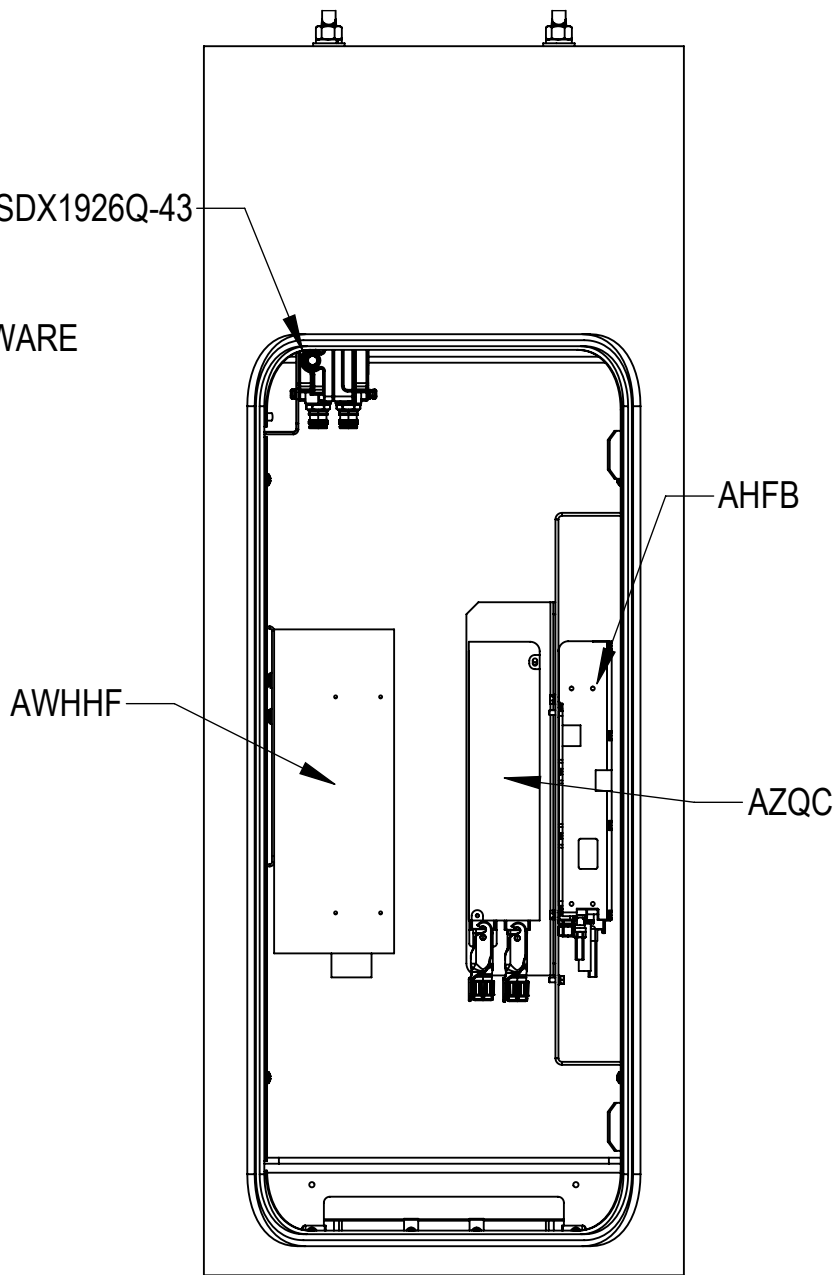
STEP 2 :
MTM1221-4003-BR(APAM)
1. INSTALL THE MOUNTING BRACKET MTM1221-4003-BR TO THE BRACKET INSIDE THE POLE USING 4 SETS OF M6 SEMS SCREWS AND CLIP NUTS



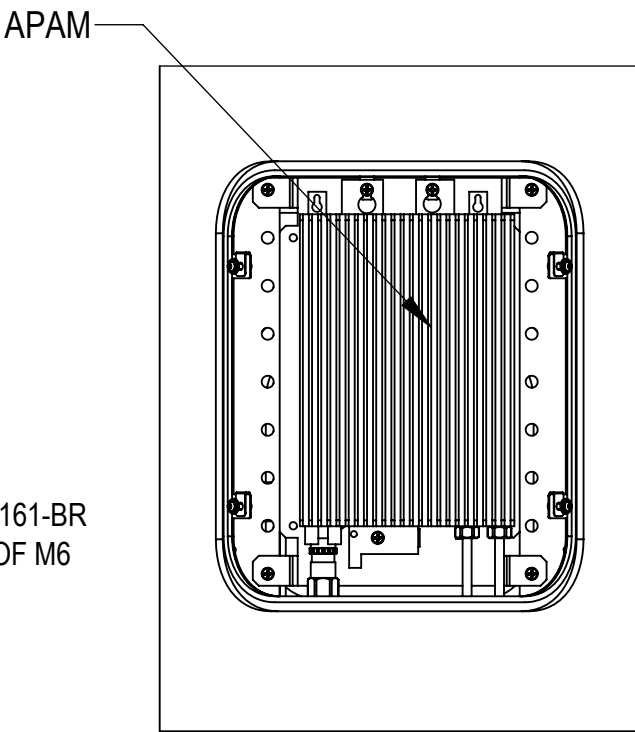
STEP 3 :
MTM1221-4005-BR(AHFB+AZQC)
1. INSTALL THE MOUNTING BRACKET MTM1221-4005-BR TO THE STRUT INSIDE THE POLE USING 4 SETS OF M6 SEMS SCREWS AND CLIP NUTS



STEP 4 :
MTM1160-1161-BR(AWHHF)
1. INSTALL THE MOUNTING BRACKET MTM1160-1161-BR TO THE STRUT INSIDE THE POLE USING 4 SETS OF M6 SEMS SCREWS AND CLIP NUTS



FRONT VIEW



REAR VIEW

ANDREW an Amphenol company

TITLE
KIT NOKIA INSTALL - PB20 72" TMT RAD EXT

SIZE **C** SCALE **1:10** DOCUMENT NO.
MTM1193-9900-AMK-N



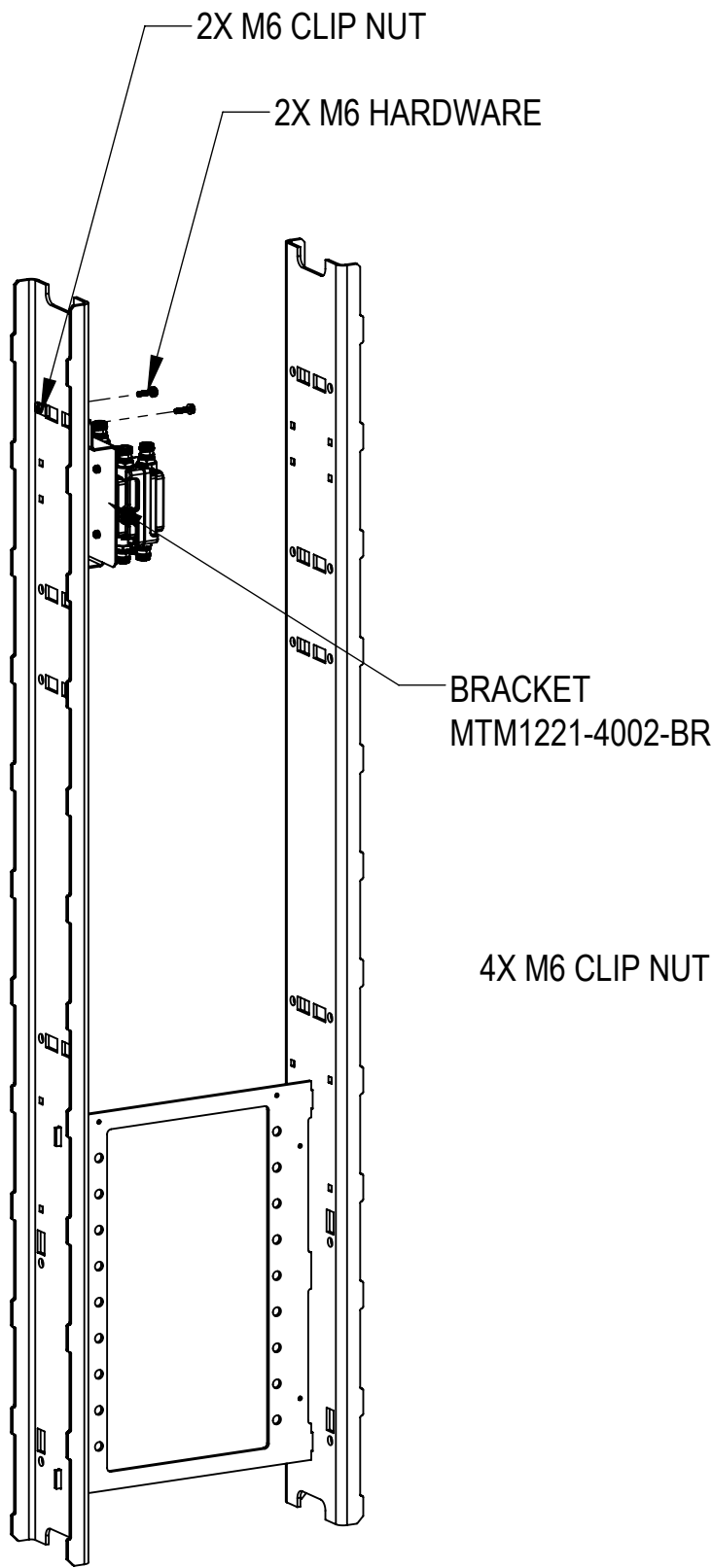
DRAWING
VERSION STATUS REVISION
01 RE B

SHEET
7 OF 10

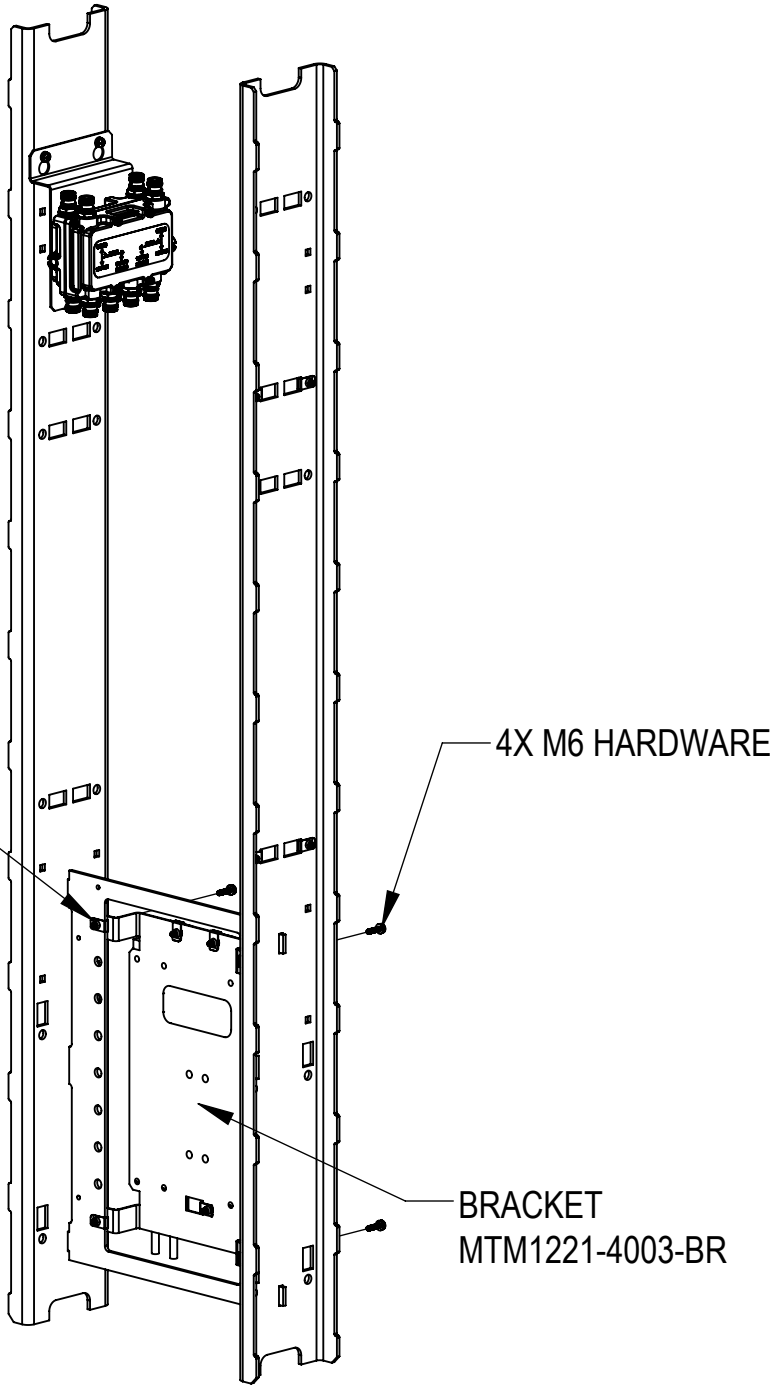
Confidential

**N4: NOK AHFB + AHIB + AZRB + AZQC 3.5GHZ
+ QUAD DIPLEXER SDX1926Q-43 +APAM INSTALLATION**

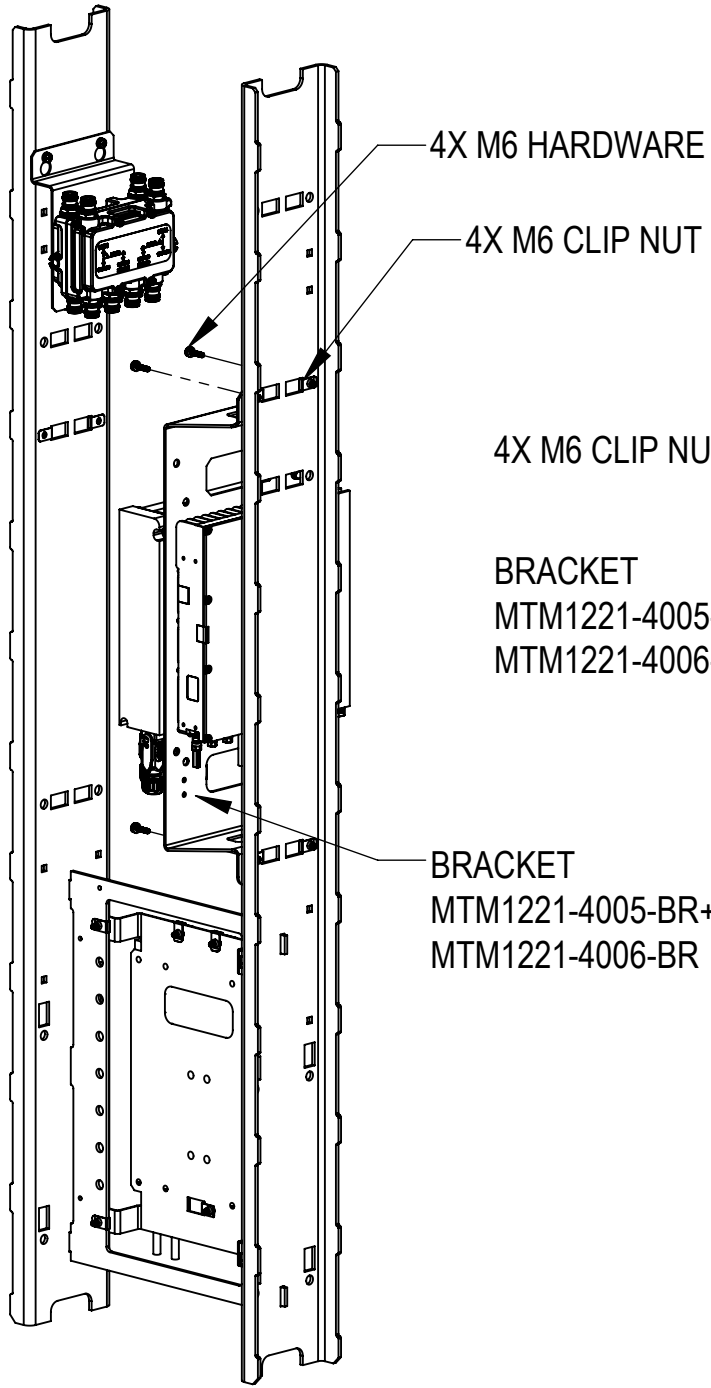
EQUIPMENT INSTALLATION SEE SHEET 3 & 4
TORQUE ALL TO SPEC



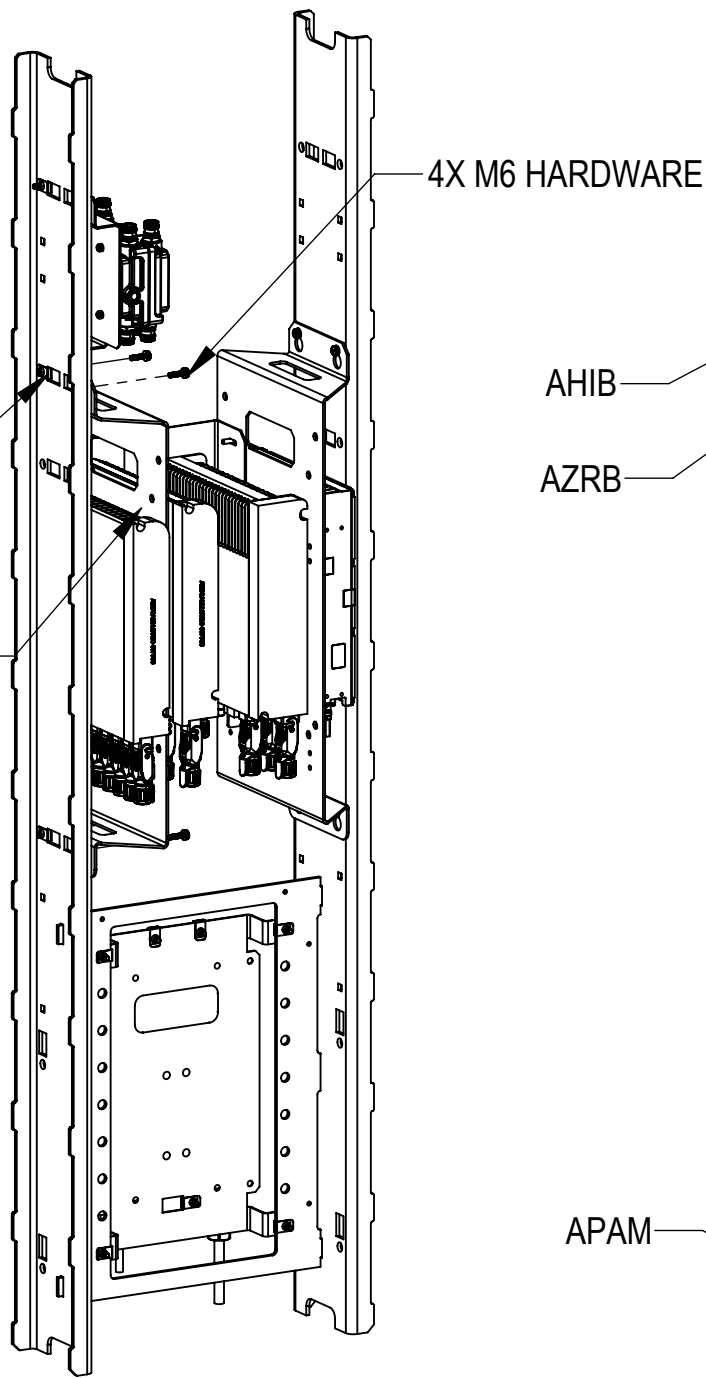
STEP 1 :
MTM1221-4002-BR(SDX1926Q-43)
1. INSTALL THE MOUNTING BRACKET MTM1221-4002-BR
TO THE STRUT INSIDE THE POLE USING 2 SETS OF M6
SEMS SCREWS AND CLIP NUTS



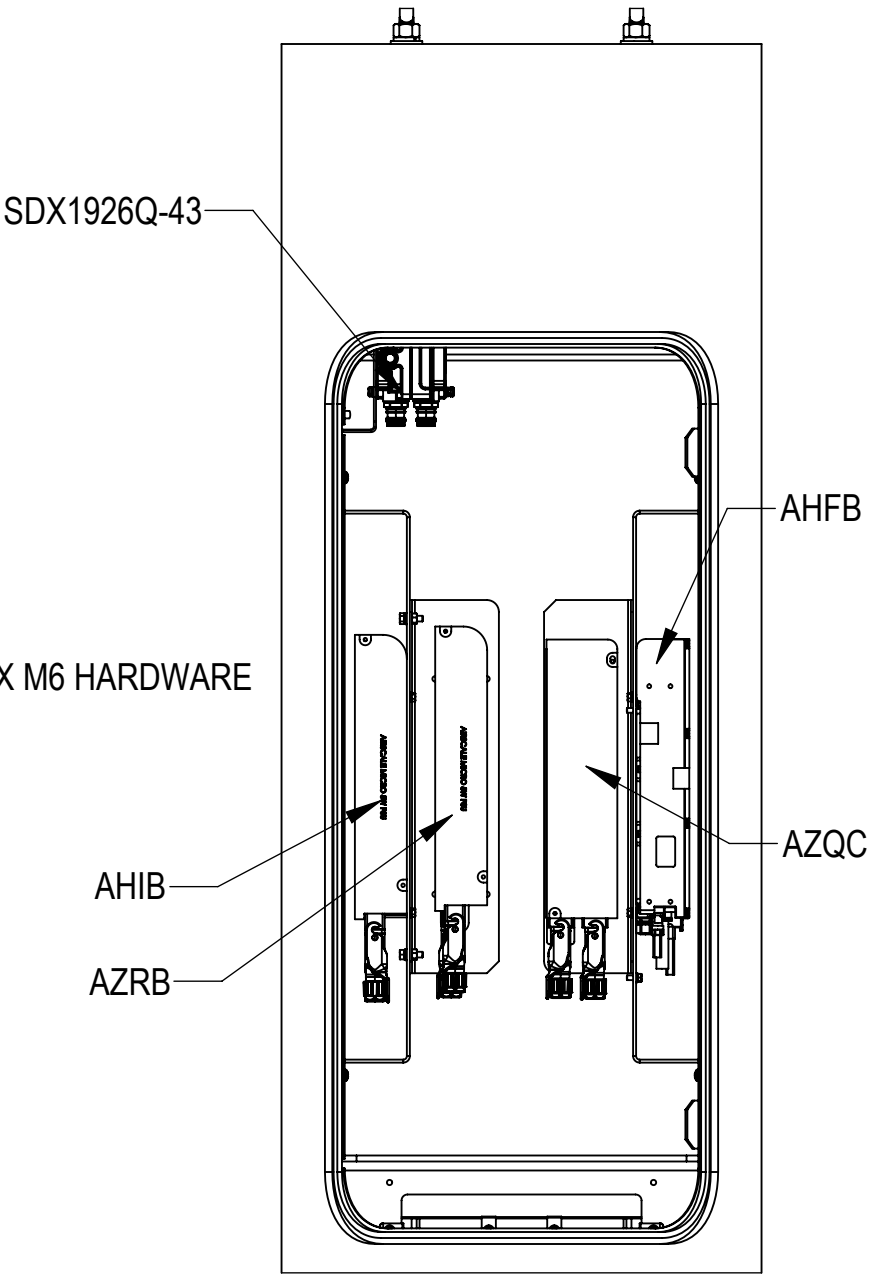
STEP 2 :
MTM1221-4003-BR(APAM)
1. INSTALL THE MOUNTING BRACKET MTM1221-4003-BR
TO THE BRACKET INSIDE THE POLE USING 4 SETS OF M6
SEMS SCREWS AND CLIP NUTS



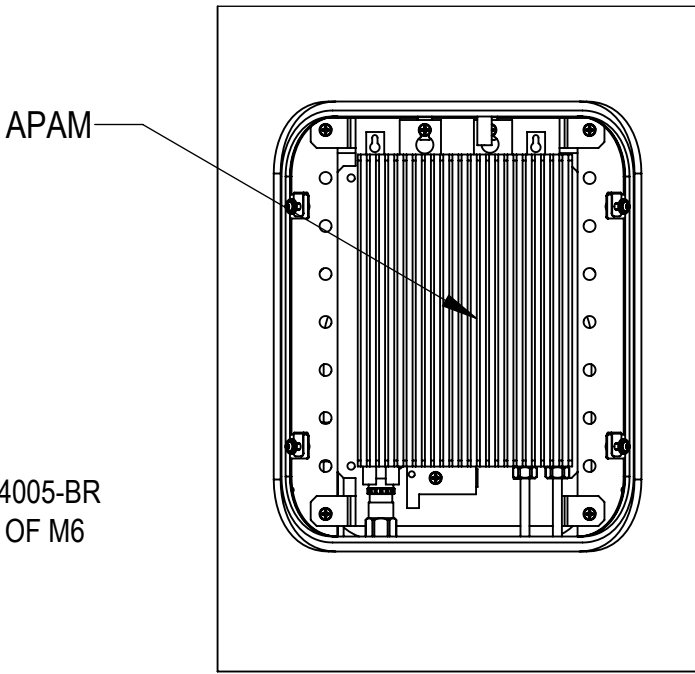
STEP 3 :
MTM1221-4005-BR(AHFB+AZQC)
1. INSTALL THE MOUNTING BRACKET MTM1221-4005-BR
TO THE STRUT INSIDE THE POLE USING 4 SETS OF M6
SEMS SCREWS AND CLIP NUTS



STEP 4 :
MTM1221-4005-BR(AHIB+AZRB)
1. INSTALL THE MOUNTING BRACKET MTM1221-4005-BR
TO THE STRUT INSIDE THE POLE USING 4 SETS OF M6
SEMS SCREWS AND CLIP NUTS



FRONT VIEW



REAR VIEW

ANDREW an Amphenol company

TITLE
KIT NOKIA INSTALL - PB20 72" TMT RAD EXT

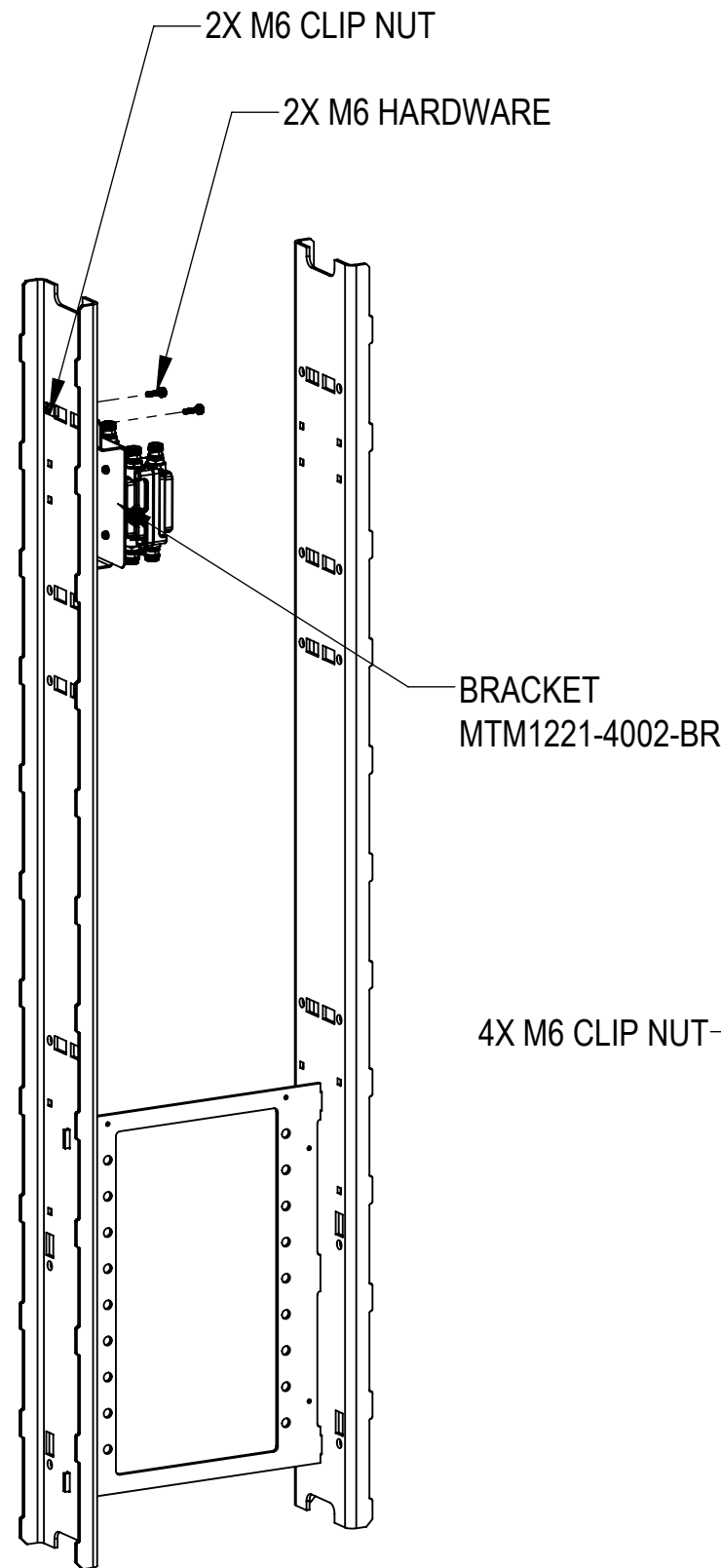
SIZE	SCALE	DOCUMENT NO.
C	1:10	MTM1193-9900-AMK-N
DRAWING		
VERSION	STATUS	REVISION
01	RE	B

SHEET
8 OF 10

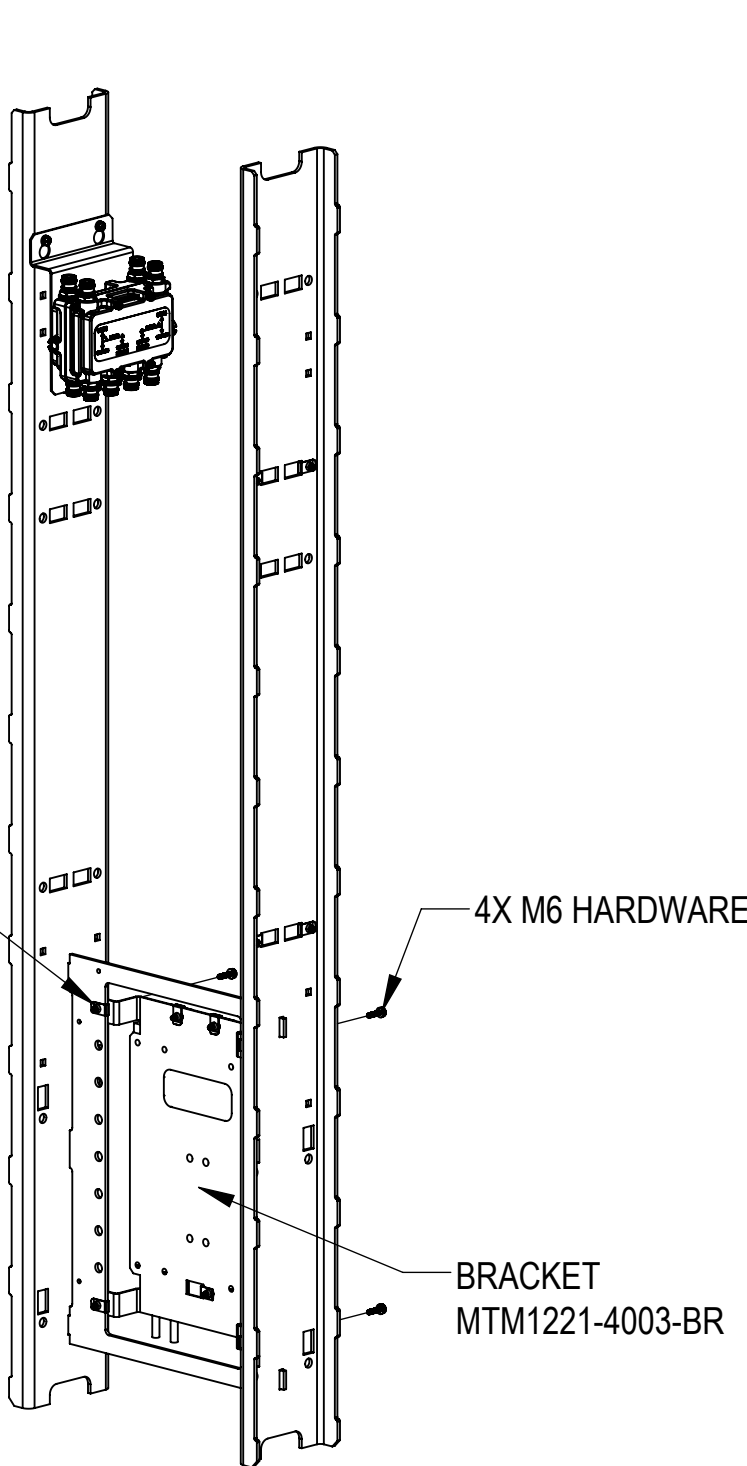
Confidential

N5: NOK AHFIB + NOK AWHHF
+ QUAD DIPLEXER SDX1926Q-43 +APAM INSTALLATION

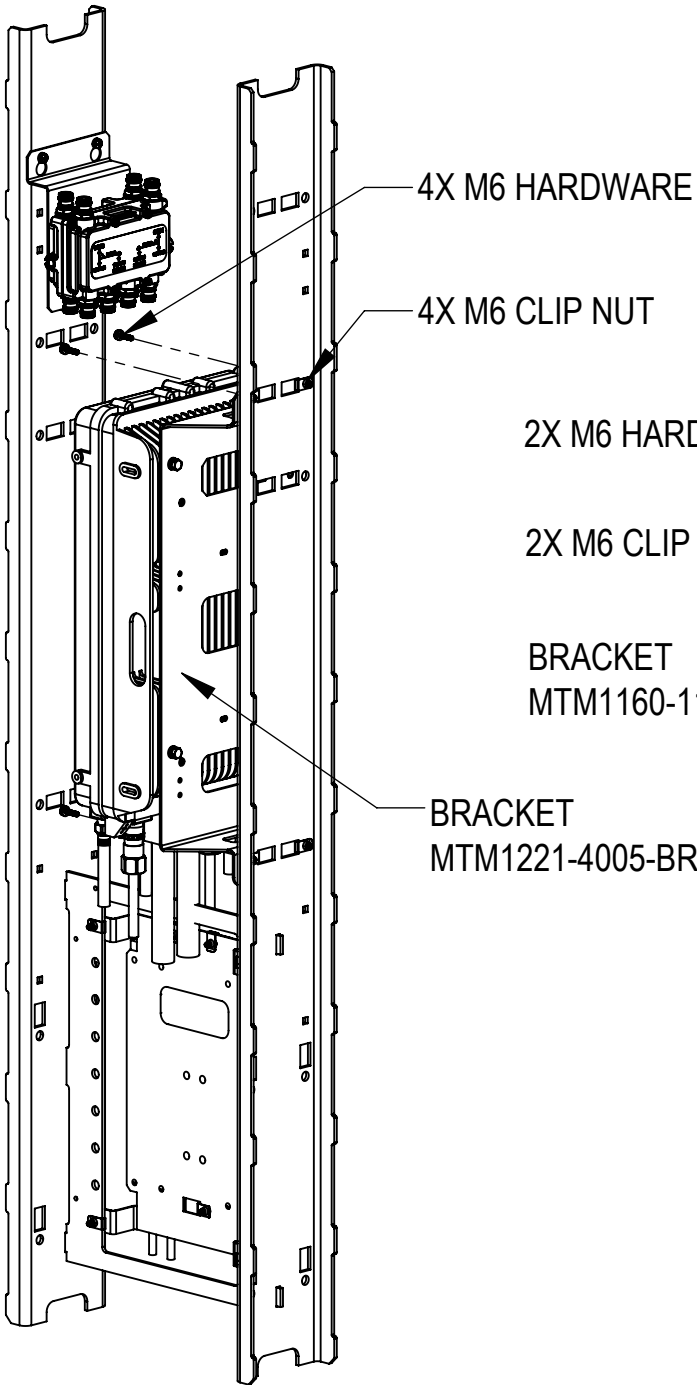
EQUIPMENT INSTALLATION SEE SHEET 3 & 4
TORQUE ALL TO SPEC



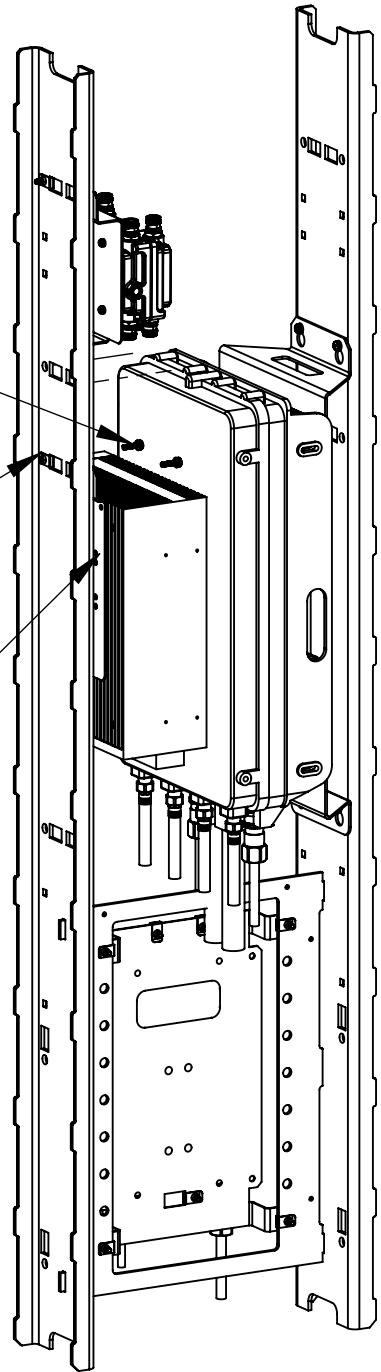
STEP 1 :
MTM1221-4002-BR(SDX1926Q-43)
1. INSTALL THE MOUNTING BRACKET MTM1221-4002-BR
TO THE STRUT INSIDE THE POLE USING 2 SETS OF M6
SEMS SCREWS AND CLIP NUTS



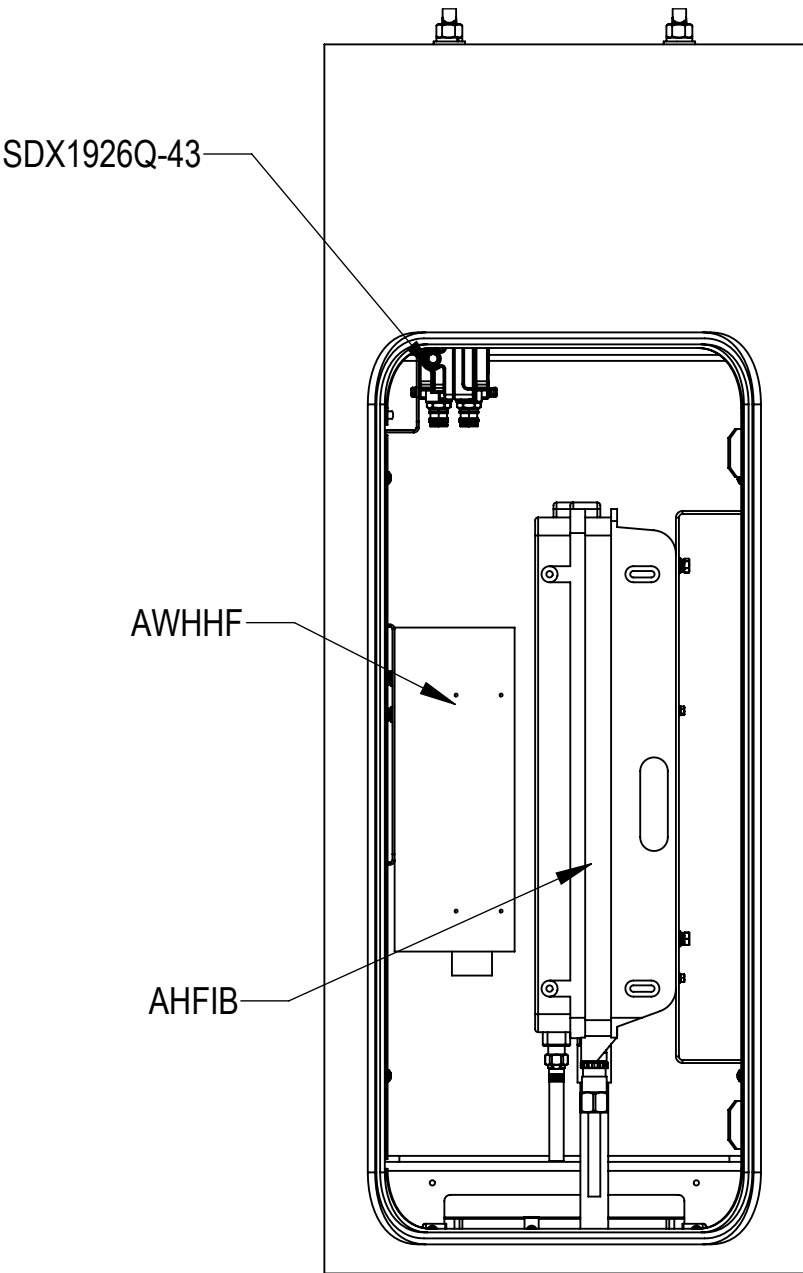
STEP 2 :
MTM1221-4003-BR(APAM)
1. INSTALL THE MOUNTING BRACKET MTM1221-4003-BR
TO THE BRACKET INSIDE THE POLE USING 4 SETS OF M6
SEMS SCREWS AND CLIP NUTS



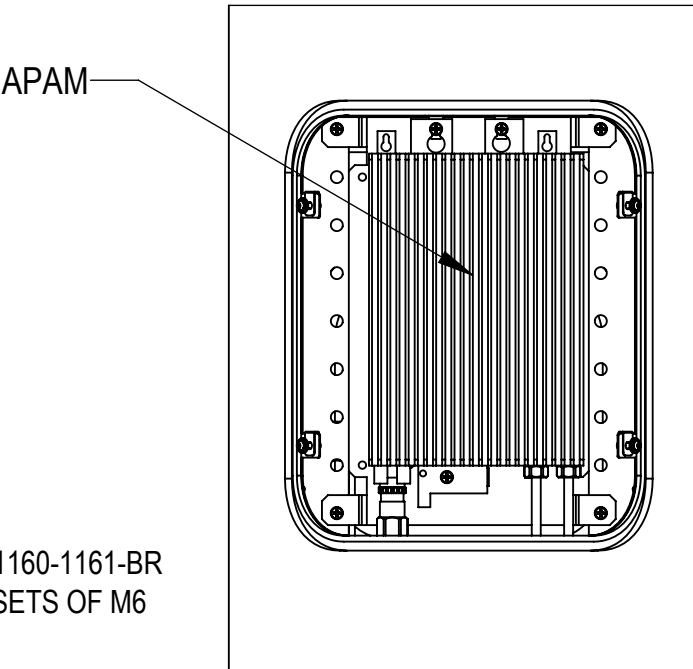
STEP 3 :
MTM1221-4005-BR(AHFIB)
1. INSTALL THE MOUNTING BRACKET MTM1221-4005-BR
TO THE STRUT INSIDE THE POLE USING 4 SETS OF M6
SEMS SCREWS AND CLIP NUTS



STEP 4 :
MTM1160-1161-BR(AWHHF)
1. INSTALL THE MOUNTING BRACKET MTM1160-1161-BR
TO THE STRUT INSIDE THE POLE USING 2 SETS OF M6
SEMS SCREWS AND CLIP NUTS



FRONT VIEW



REAR VIEW

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TITLE
KIT NOKIA INSTALL - PB20 72" TMT RAD EXT

SIZE **C** SCALE **1:10** DOCUMENT NO.
MTM1193-9900-AMK-N



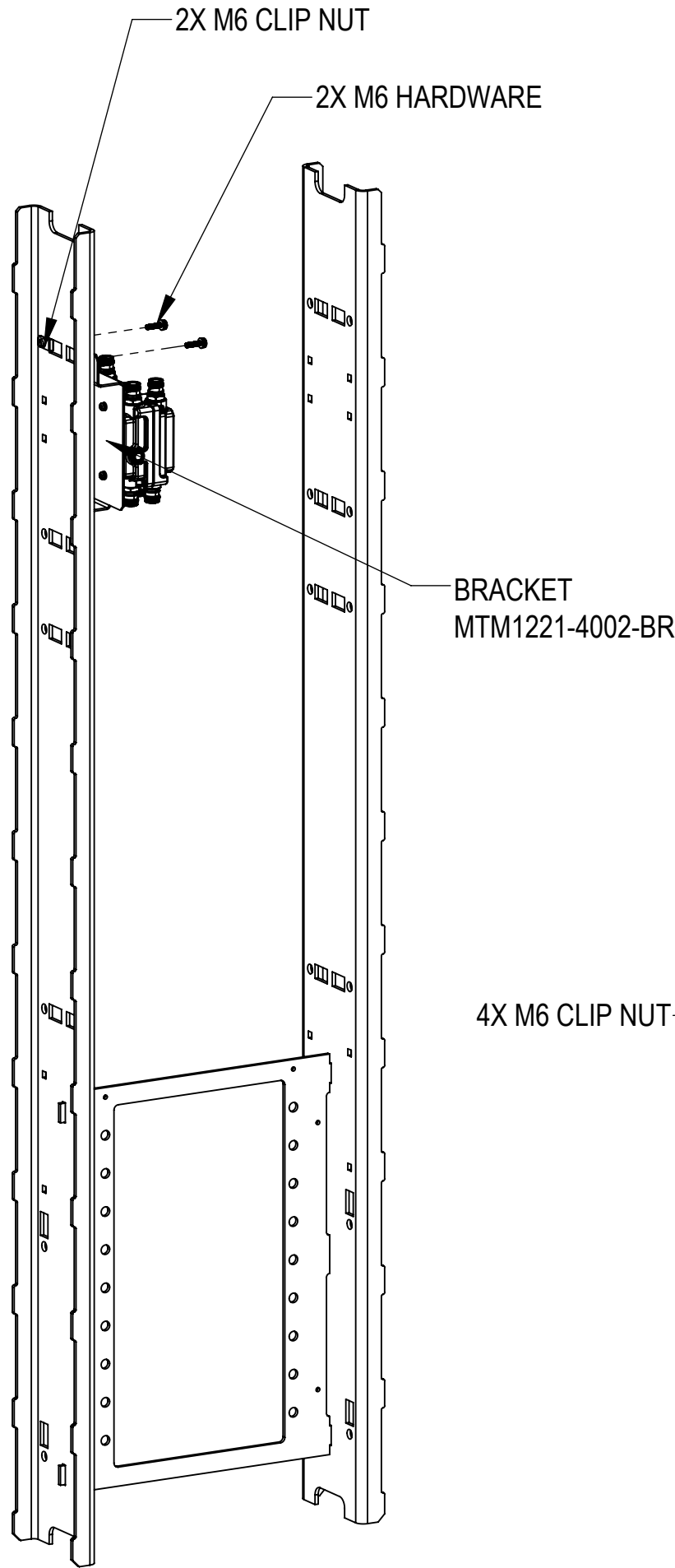
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VERSION STATUS REVISION
01 RE B

SHEET
9 OF 10

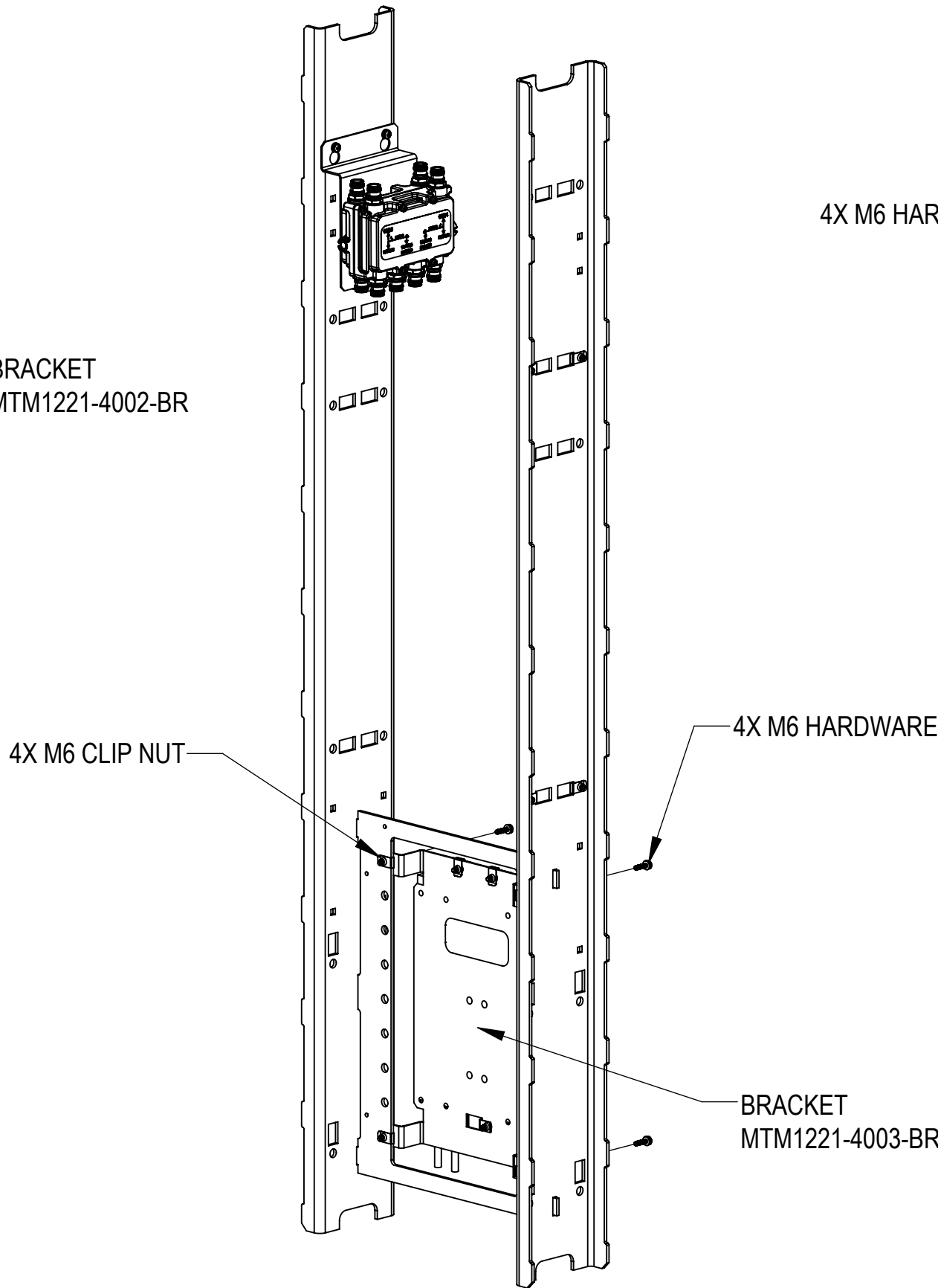
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N6: NOK AZHL + QUAD DIPLEXER SDX1926Q-43 + APAM INSTALLATION

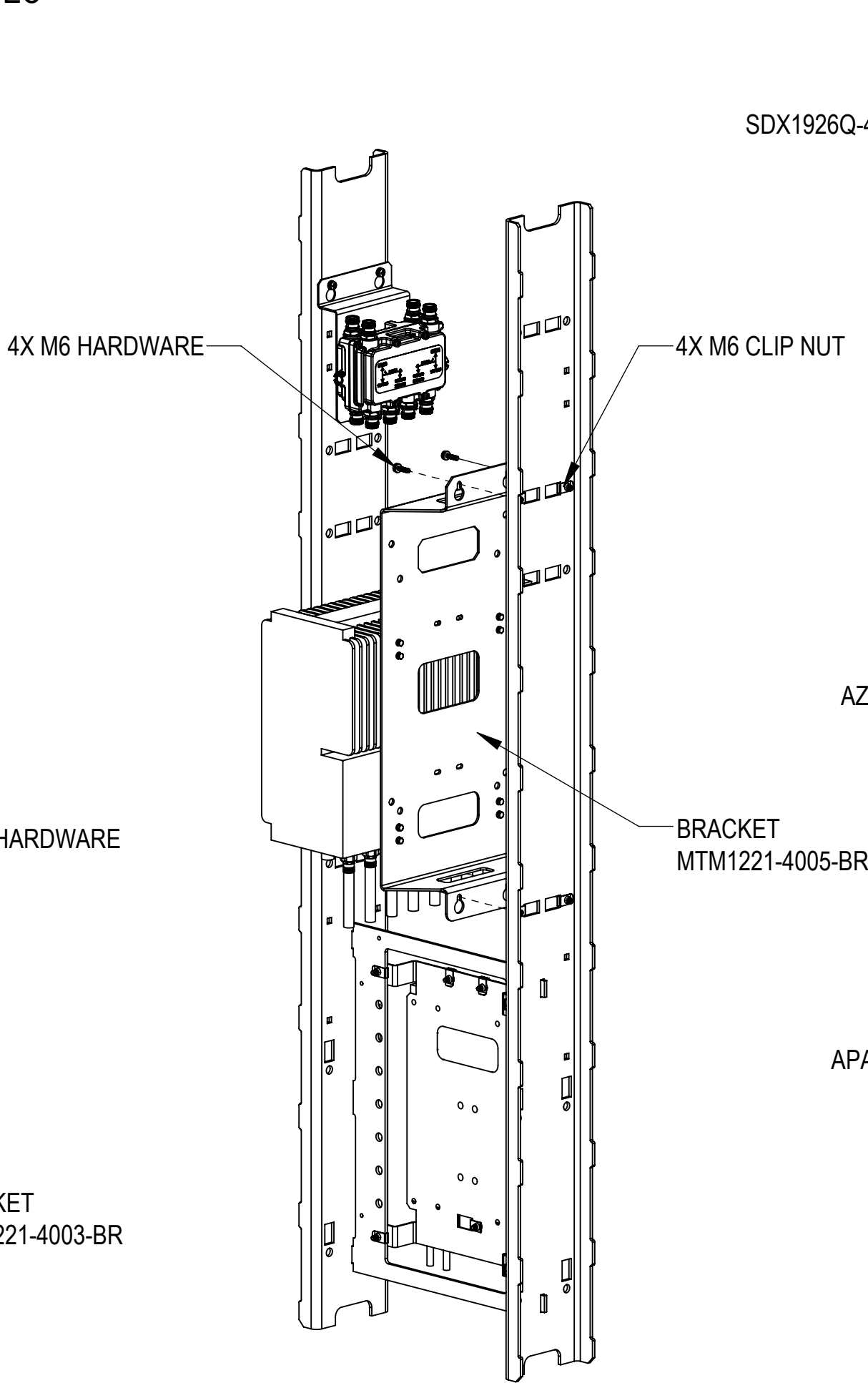
EQUIPMENT INSTALLATION SEE SHEET 3 & 4
TORQUE ALL TO SPEC



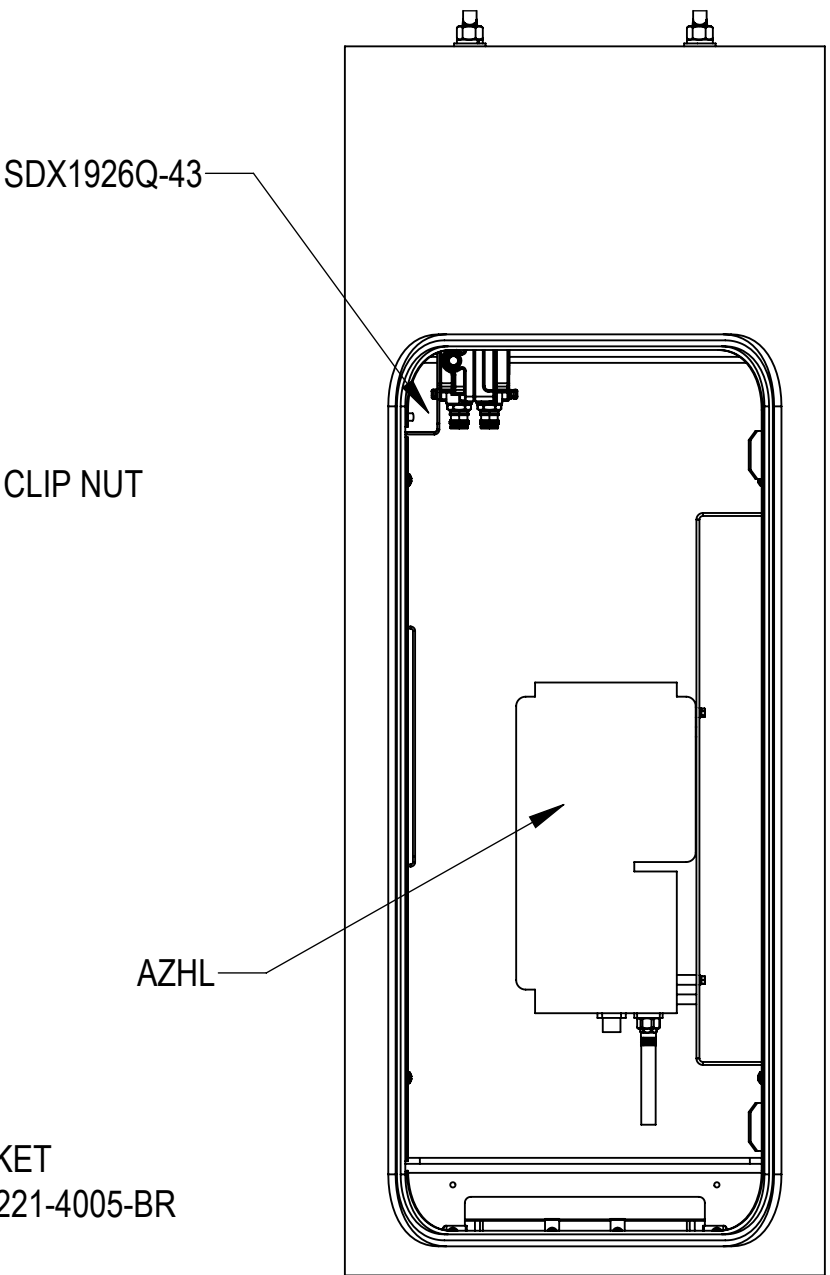
STEP 1 :
MTM1221-4002-BR(SDX1926Q-43)
1. INSTALL THE MOUNTING BRACKET MTM1221-4002-BR
TO THE STRUT INSIDE THE POLE USING 2 SETS OF M6 SEMS
SCREWS AND CLIP NUTS



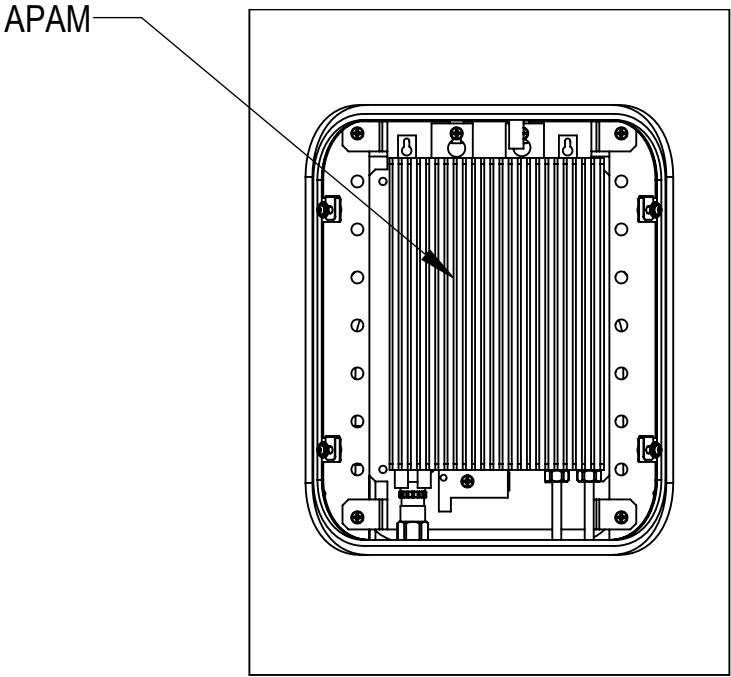
STEP 2 :
MTM1221-4003-BR(APAM)
1. INSTALL THE MOUNTING BRACKET MTM1221-4003-BR
TO THE BRACKET INSIDE THE POLE USING 4 SETS OF M6
SEMS SCREWS AND CLIP NUTS



STEP 3 :
MTM1221-4005-BR(AZHL)
1. INSTALL THE MOUNTING BRACKET MTM1221-4005-BR
TO THE STRUT INSIDE THE POLE USING 4 SETS OF M6 SEMS
SCREWS AND CLIP NUTS



FRONT VIEW



REAR VIEW

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TITLE
KIT NOKIA INSTALL - PB20 72" TMT RAD EXT

SIZE **C** SCALE **1:10** DOCUMENT NO.
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10 OF 10

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