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| (1) COMPACTED SOIL | (7) IRON REINFORCEMENT | (10) DIAPHRAGM WALL |
| (2) CRUSHED STONE (GRAVEL) | (8) RC RAFT FOUNDATION | (11) PILE |
| (3) LEVELING CONCRETE | (9) RC RAFT RETAINING WALL | (12) DRAINAGE PIPE |
| (4A) MBM HORIZONTAL WATERPROOFING, BASE LAYER "NILOFLEX 15 3MM E/E" | | (13) DRAINAGE BOARD |
| (4B) MBM HORIZONTAL WATERPROOFING, MAIN LAYER "NILOFLEX 15 4MM E/E" | | (14A) MBM VERTICAL WATERPROOFING, BASE LAYER "NILOFLEX 15 3MM E/E" * |
| (5) PROTECTION BOARD* | | (14B) MBM VERTICAL WATERPROOFING, MAIN LAYER "NILOSTICK 1500-3 MM S/Z" |
| (6) WATER SWELL TAPE | | (15) FORE PILE (DOWELLS) |
| | | (16) BACK FILL |

NOTES :

1- THE DRAINAGE IS PLACED AS A SURROUNDING BELT ALONG THE CONTINUOUS FOUNDATION AS PER PROJECT REQUIREMENTS.

2- FLASHING:

OPTION A CAST-IN PLACE POLYURETHANE COATING REINFORCED WITH POLYESTER.

OPTION B ADDITIONAL STRIP OF NILOFLEX 15 PY S/E.

OPTION C AS SPECIFIED.

* OPTIONAL IN CASE OF EXPECTED MECHANICAL MOVEMENT PROTECTION BOARD IS REQUIRED (NILOBOARD, NILOSTICK 1500 2MM S/E OR ALTERNATE).

* MECHANICALLY FASTENED TO DRAINAGE BOARD.

(USE "SYSTEM REFERENCE" TO OBTAIN RELEVANT DETAILS FROM "STANDARD CONSTRUCTION DETAILS" SECTION)

	Application	WATERPROOFING APPLICATIONS	UB12-B
		UNDERGROUND STRUCTURE	
		DEEP FOUNDATIONS	REFERENCE:
	System	FOUNDATION & UNIFORM DIAPHRAGM WALL - TWO LAYERS	BNTS/03/UB12-B
	SBS & SELF ADHESIVE MBM WATERPROOFING TANKING SYSTEM	DATE:	JANUARY 2022
	50, Al Khalifa Al Maamoun St., Roxy, Heliopolis, Cairo - Egypt.	E-mail: MTS@bitunil.com	
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