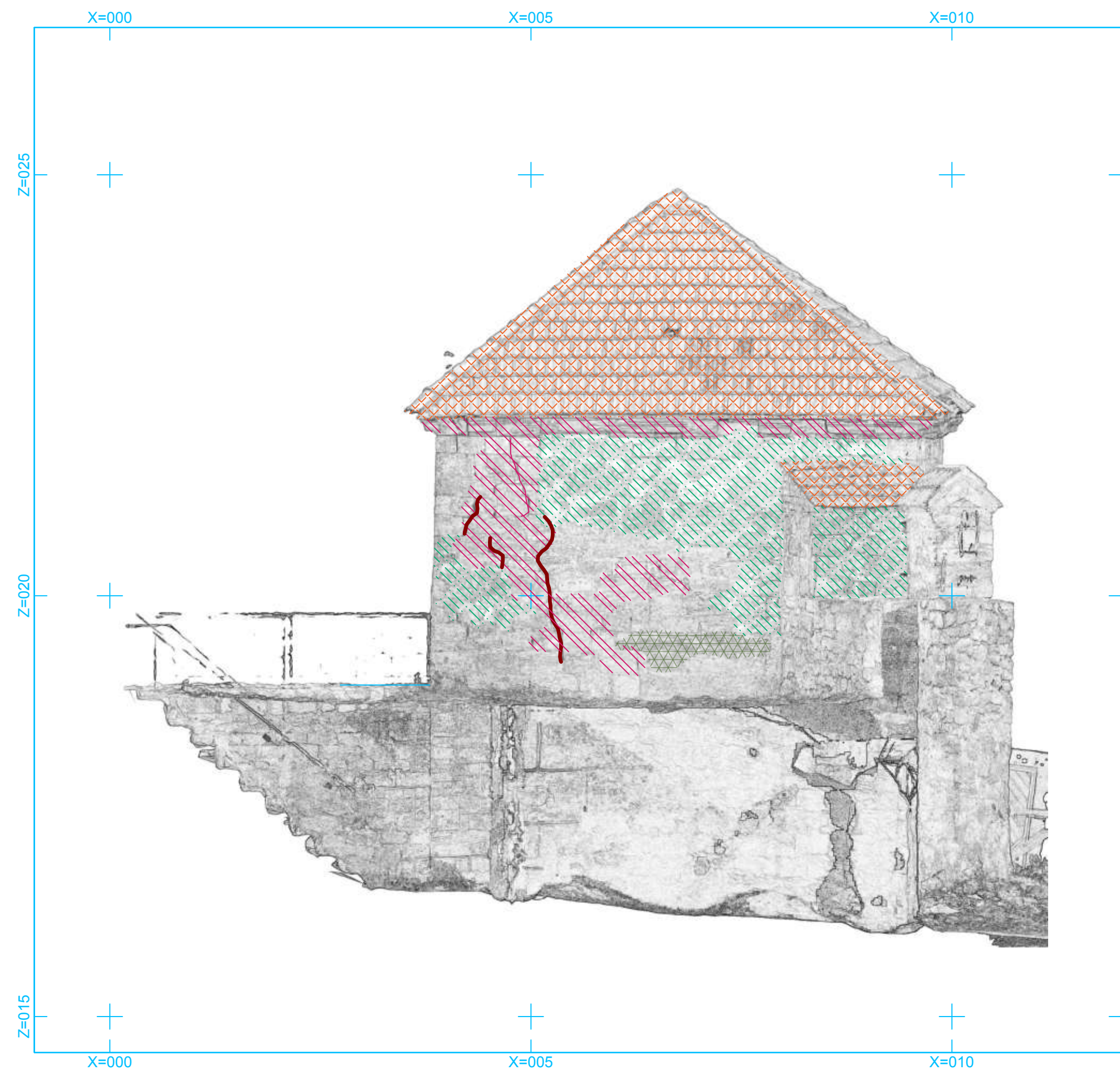
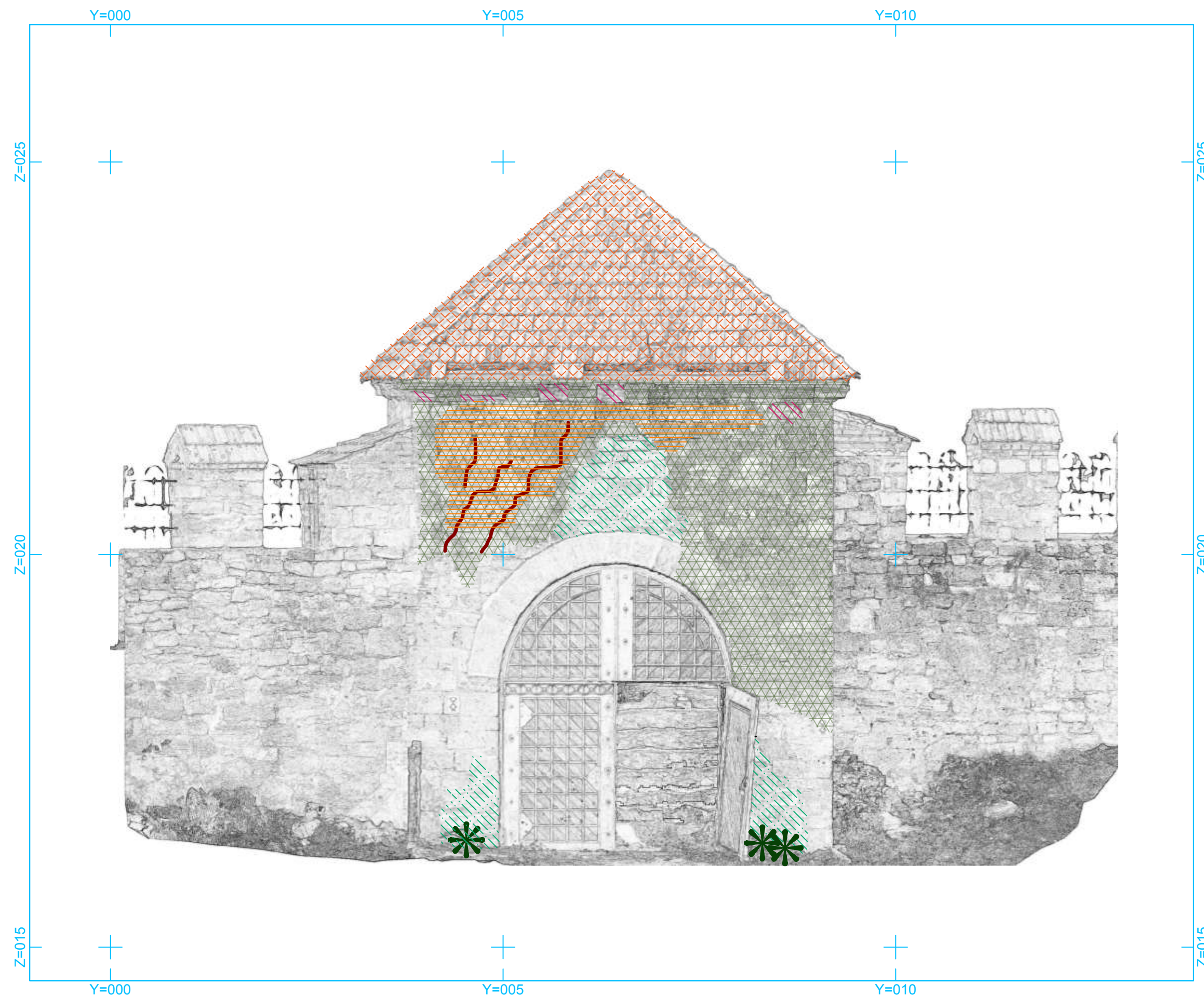


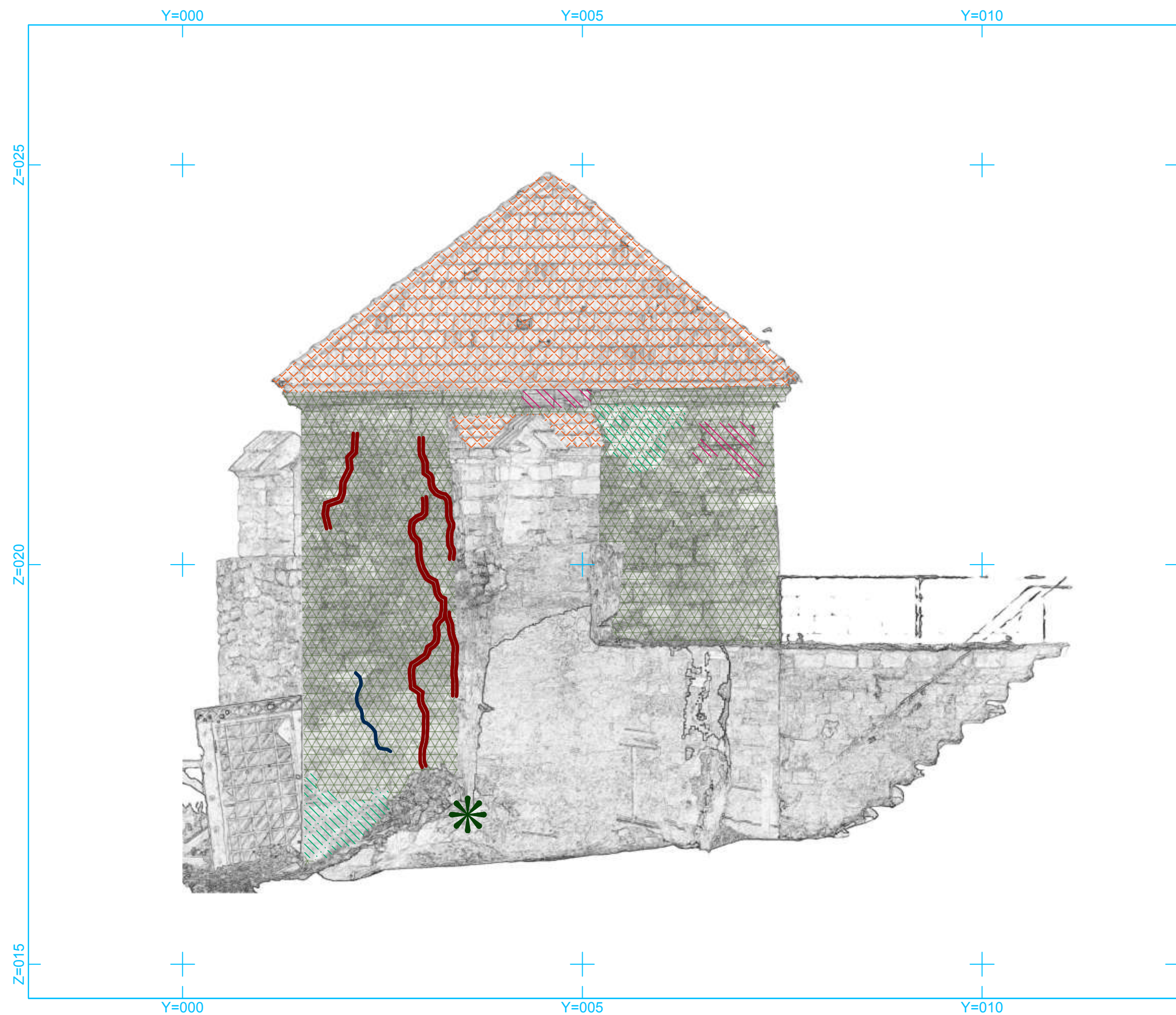
ORTHOPHOTO WALL FRONT WT-A



ORTHOPHOTO WALL FRONT WT-B

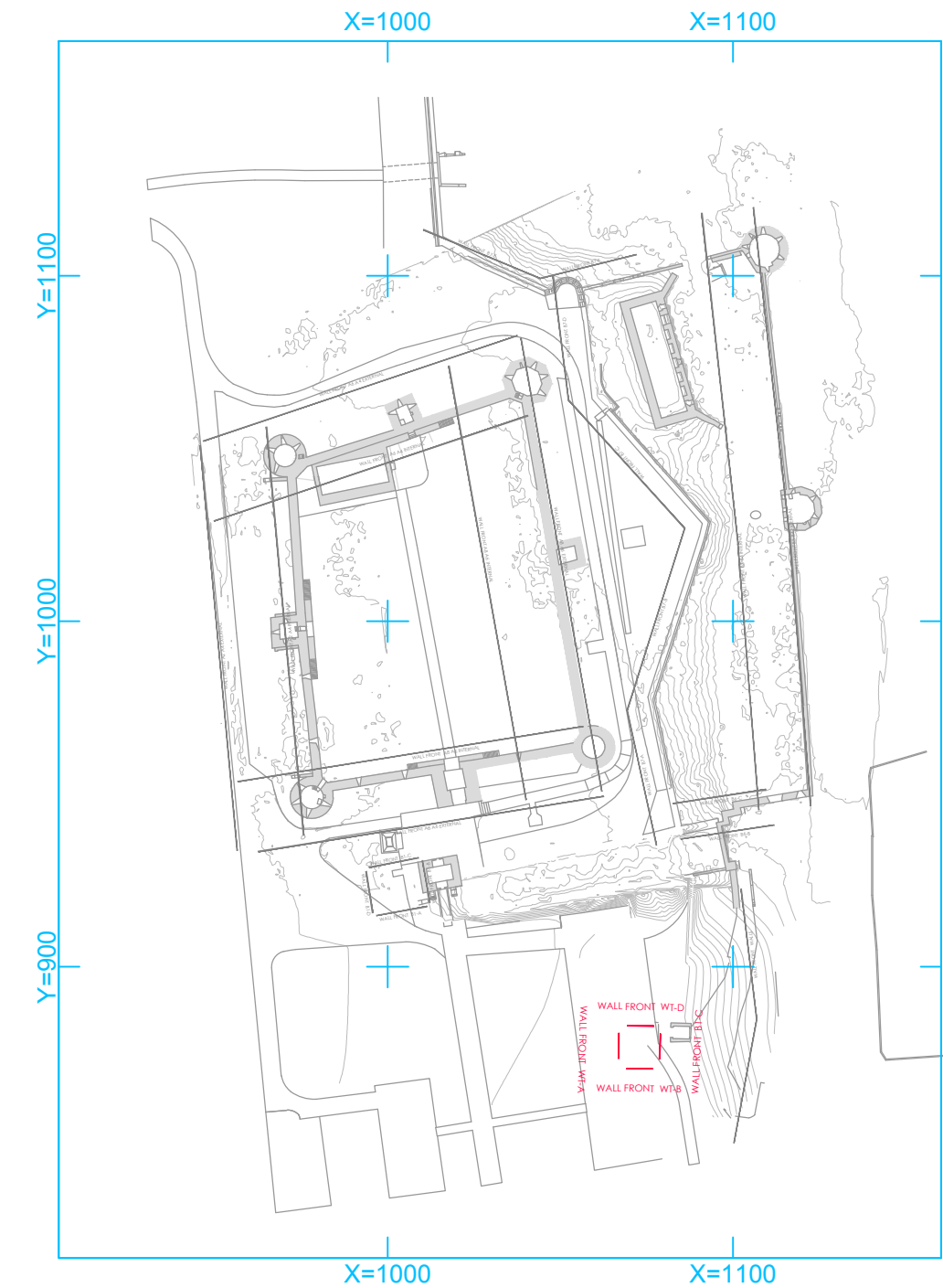


ORTHOPHOTO WALL FRONT WT-C



ORTHOPHOTO WALL FRONT WT-D

SYMBOLS OF ALTERATIONS	
ALTERATIONS	
Main items:	
	Loss of original surface, leading to smoothed shapes
	Mortar joint leakage
	Fragmentation and breakage of the stone material: the complete or partial breaking up of a stone, into portions of variable dimensions that are irregular in form, thickness and volume
	Alteration of stone: the presence of loss of original surface, fragmentation and mortar joint leakage
	Wall with intense biological patina
	Presence of shrubby vegetation
	Graffiti: Engraving, scratching, cutting or application of paint, ink or similar matter on the stone surface
STRUCTURAL FAILURES	
Main items:	
	Crack: Minor crack with a width of about 0.1 mm
	Deep crack: Crack that crosses completely the stone piece
	Filled crack
	Detachment of the facing stones
	Swelling
	Collapse
RECENT INTERVENTIONS	
Main items:	
	Cementitious patches
	Roof tiles
	Layer of cement plaster
	Not detectable



	<small>European Union Delegation Building Maintenance Programme Programma di Conservazione e Manutenzione Programme de Conservation et d'Entretien Programa de Conservare și de Întreține</small>	
This project is funded by the European Union		
CLIENT: European Union Delegation to Moldova through its operational contractor UNDP		
Technical Expertise and develop Detailed Technical Design for CONSERVATION AND RESTORATION WORKS OF BENDER FORTRESS (Phase I)		
DETAILED TECHNICAL DESIGN		
TEAM LEADER		
Studio Berlucchi srl Arch. Eng. Nicola Berlucchi - Eng. Nicola Fumagalli With the collaboration of Arch. Flavia Mainardi, Eng. Alessandro Trevisi www.studioberlucchi.it		
INTERNATIONAL EXPERTS		
Prof. Donatella Fiorani Conservation expert	Prof. Carlo Blasi Structure restoration expert	Arch. Serghei Garconita Certified local Architect since 2012 (number 108)
Eng. Stanislav Condratenco Certified local Engineer since 2014 (number 1000)	Arch. Corina Fisticanu Assistant local Architect	Eng. Evgheni Cutia Assistant local Engineer
GEOGRA' srl Architectural Survey	SOING srl Diagnostics and analysis	Dr. Sergiu Musteata Archaeologist
Arch. Carlotta Cocco GBC HB Expert	Dr. Igor Nicoara Geologist	
C B A		
- 07-2020 first emission C226_RER_009.dwg		
DATE REVISION FILE NAME		
TITLE: DECAY PHENOMENA AND CRACKS MAPPING Elevation Water Tower-A		
ASSIGN CODE		
DOCUMENT CODE		
C226 - R ER 009 -		
INTERNAL CODE: C226_RR_09 in Technical Expertise		
REPRESENTATION SCALE: 1:50		
EXPERT STAMP AND SIGNATURE:		
This project is funded by the European Union and implemented by the United Nations Development Programme		