



Fig 1. Excavations ending in summer 1985 and buildingwork is going on. In fieldwork K.Uotila ja T.Pitkänen. (NBA)

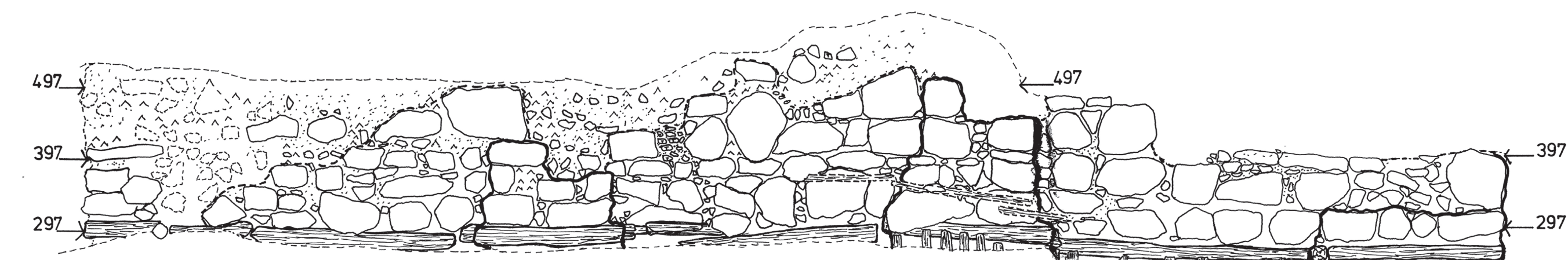


Fig 2. Documentation of western outerwall. Drawing T.Pitkänen (NBA). Drawings and photos were the only archivematerial of the church untill winter 2013 when the building analyse of the walls (K.Uotila 1985) were reproduced and studied again.

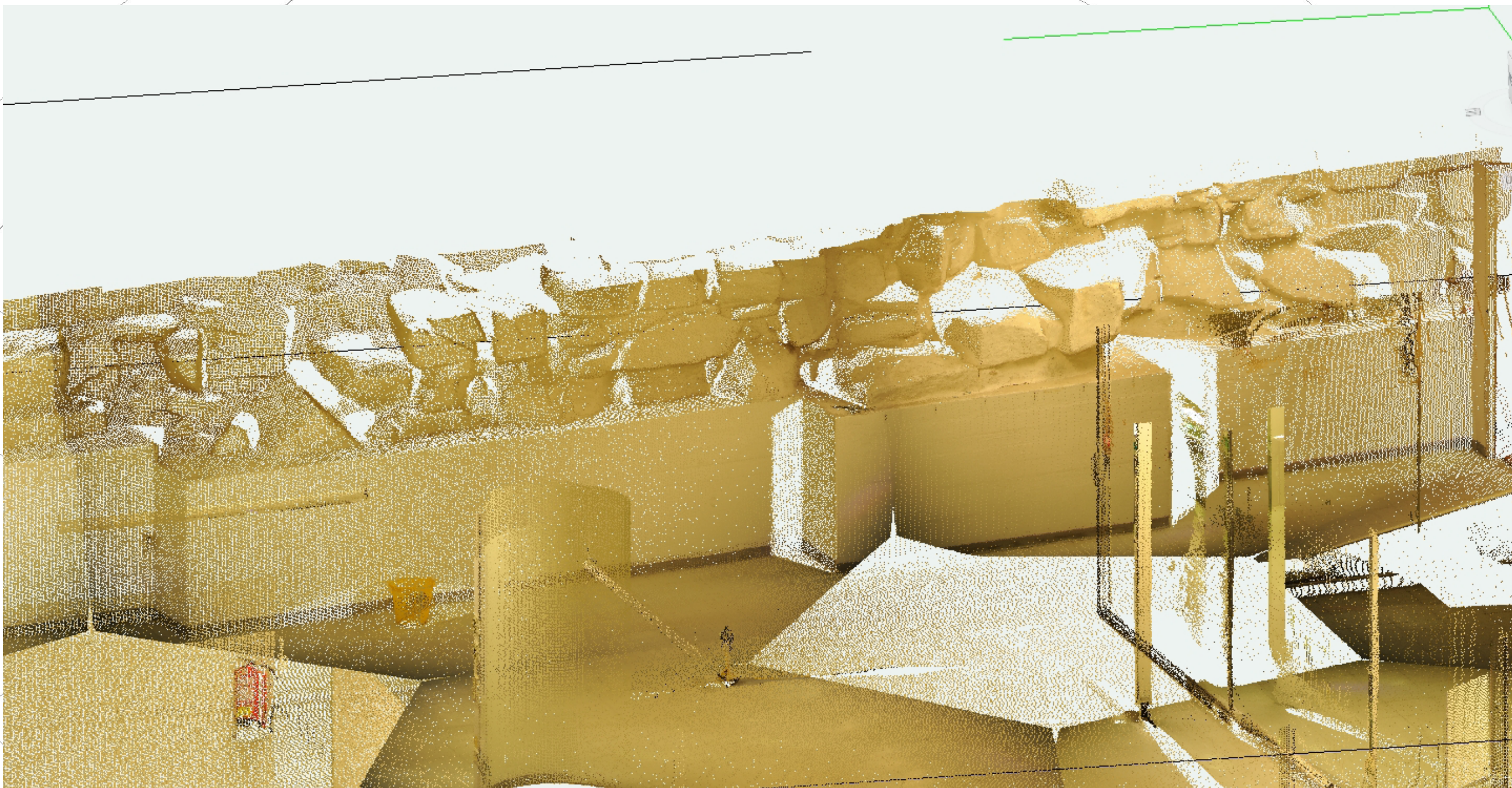


Fig 3. In winter 2013 still standing ruins were laserscanned by Rielg VZ-1000 and buildingarchaeological studies had made in ruins (K.Uotila).

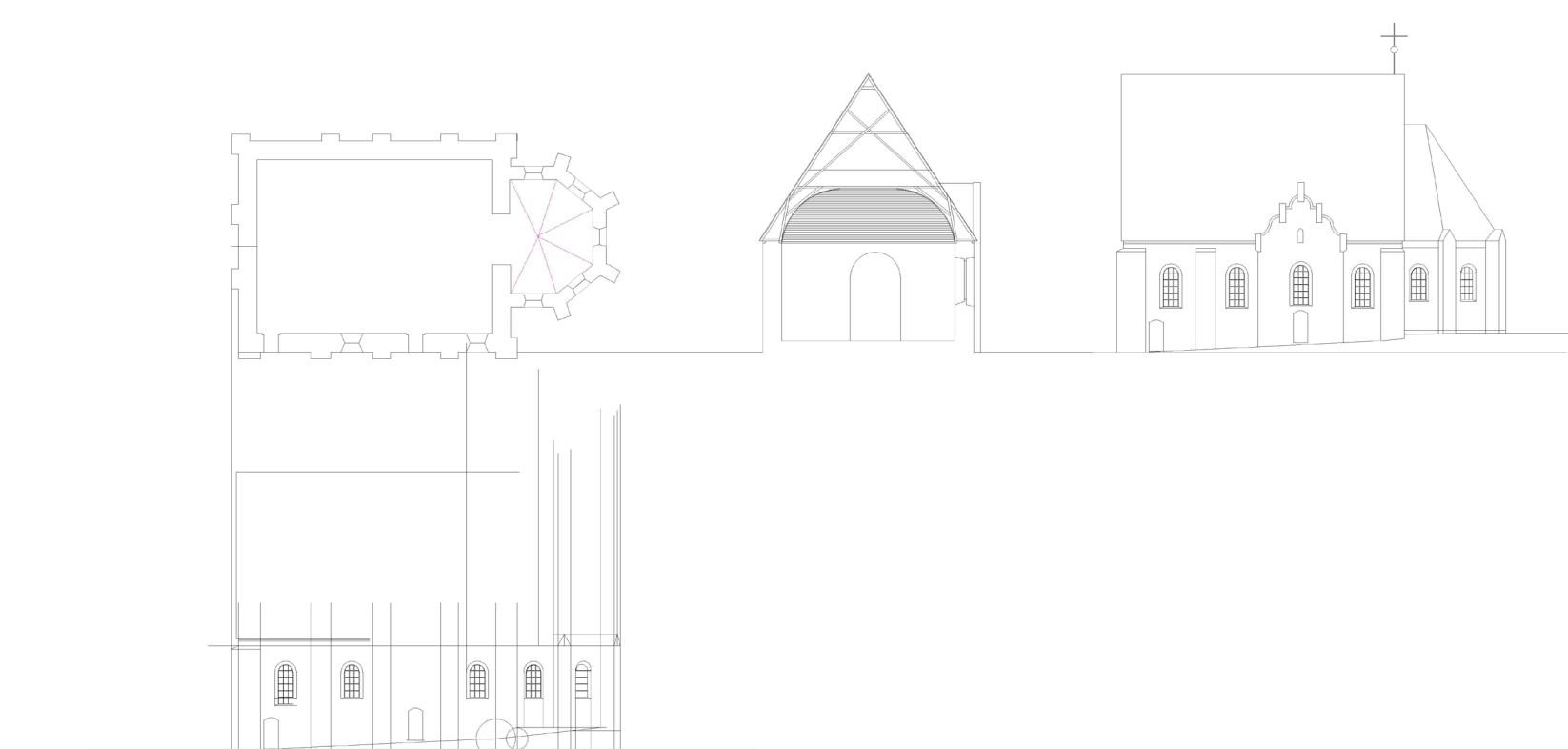
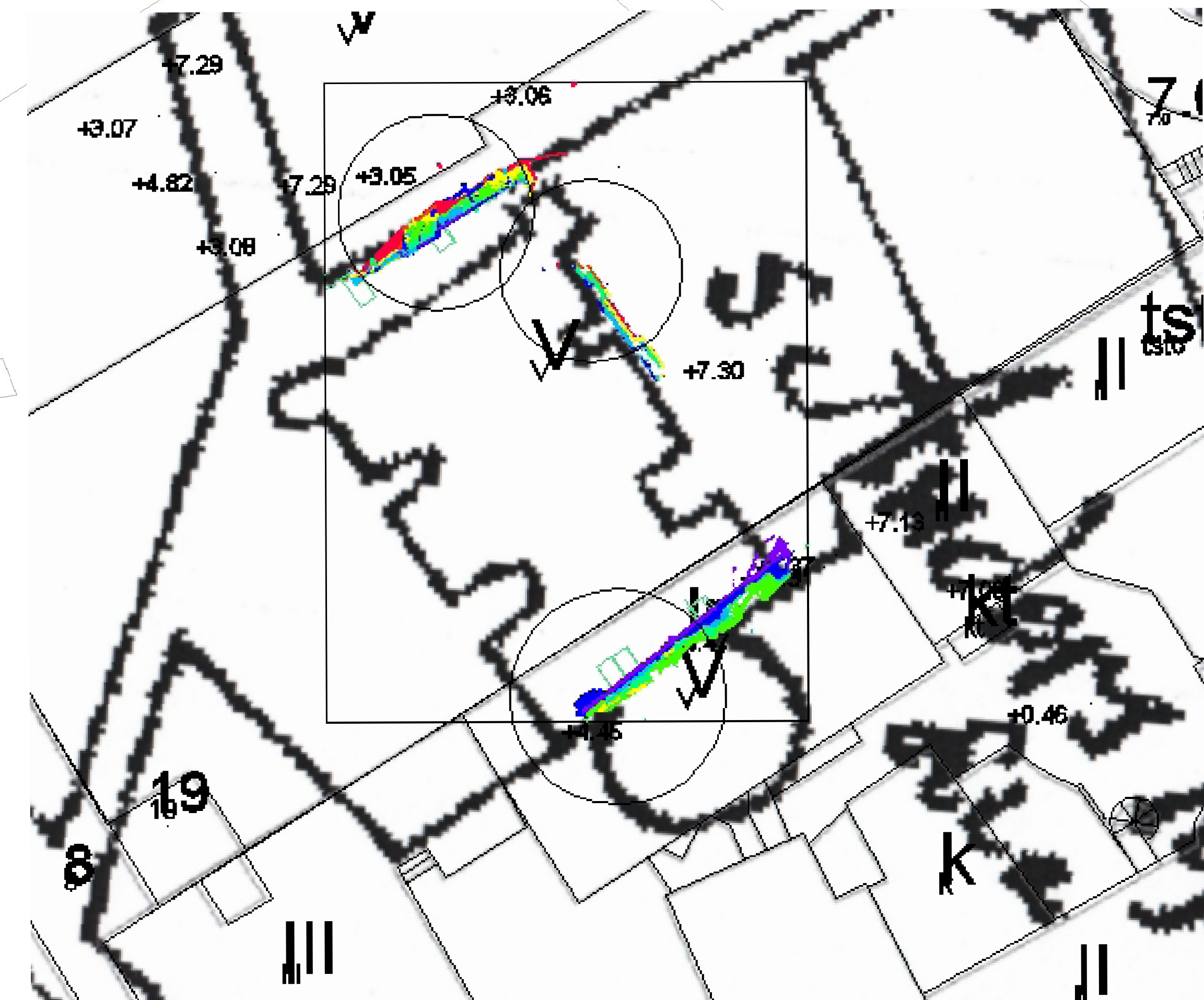


Fig 4. In springtime 2013 Sakari Mentu made some draft of the church. (copy Sakari Mentu)

Fig 5. In springtime 2013 Anna-Maria Vilkkuna started to reanalyse the written sources of the church. Map from early 17century and the shape of the church in that time. Mapinformation Tapani Tuovinen (TMM) and laserscanning of the walls (in colors) by K.Uotila.



Augmented reality and post medieval church - ruins of Holy Ghost Church in Turku

research-group
 PhD Kari Uotila (Muuritutkimus, docent / University of Turku and University of Helsinki)
 architect Sakari Mentu
 PhD Anna-Maria Vilkkuna, docent / University of Jyväskylä
 PhD Isto Huvila, docent / University of Åbo Akademi and Uppsala University
 MA Lauri Viinikkala / University of Turku
 BA Henriikka Bäfner / University of Turku

datings:
 Markku Oinonen / University of Helsinki
 Pentti Zetterberg / University of Eastern Finland

Augmented/Mixed-group
 BID / University of Turku / Lauri Viinikkala, Timo Korkalainen, Juha-Pekka Arimaa, Teijo Lehtonen, Seppo Helle, Tuomas Mäkilä and Veijo Pönni

This poster is giving shortly archaeological and historical background information about Holy Ghost Church in Turku and augmented and mixed reality project (run by BID/ University of Turku) which is showing the first demo of the church in ruins in 27.8. evening in this conference.

Building of the Holy Ghost church was begun in 1588 by King Juhana III but was maybe never completed. The church was in use a couple of years until it was severely damaged in a fire in 1593. Afterwards the church or its's ruins were used as a cemetery. The last visible remains of the church were cleared in 1650s to make way for the realization of the new street plan for the town.

The ruins were revealed in archaeological excavations in 1960s and 1980s. New evaluation and datingproject of those fieldwork done in springtime 2013. New fieldwork, like laserscanning of standing ruins and reading of walls, was done in february 2013 and researchprocess is still going on. New datings to the church are in analyse. The eastern chorus should be later than 1588 but C14-datings are giving dating to 15-16th century.

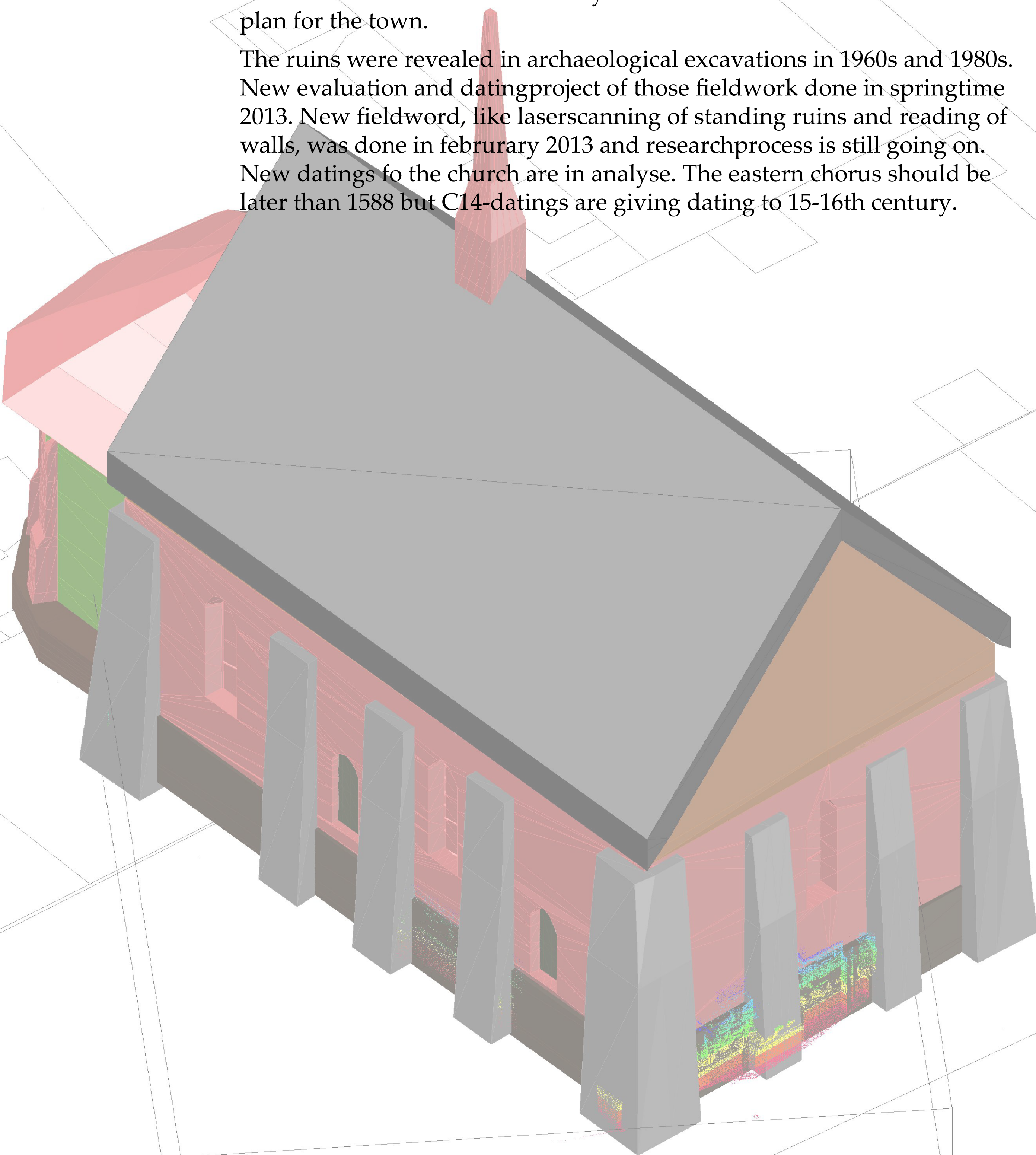


Fig 6 and 7. 3d-model of the church from northwest in researchprocess (feb. 2013) and more detailed one from southeast with simple colors (april 2013). More detailed materials are not yet included. Different variations of 3d-model of the church will be in Drupal-based-pages for comments in autums 2013 (Isto Huvila).

More information about researchproject: kari.uotila@muuritutkimus.fi
 about BID technology: teijo.lehtonen@utu.fi

