

LOCATION_ Plaza de San Juan. Burgos. Spain. **CUSTOMER**_ Burgos City Council OWNERSHIP OF THE WORK_ Burgos City Council TIMELINE OF THE WORK from May 2015 to

BURGOS (SPAIN)

Archaeologist_ Fabiola Monzón December 2015 Photographer_ Santiago Escribano BSA CONSULT_ design team

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PARTNERS INVOLVED

Quantity Surveyor_ Silvia Saiz

Contractor company_ FCC

Alberto Sainz de Aja

Architects_ Jose Manuel Barrio and

Main architects_ Jose Manuel Barrio Eguíluz and Alberto Sainz de Aja del Moral Collaborating architects_ Andrés del Río Salio, Lucía Sanz Nieto, Christian Bragado Gonzalez,

Miguel Peña Dominguez Quantity Surveyor_ Silvia Saiz Camarero

Administration_ Silvia Martin Camarero The history of BSA is linked to the professional career of its founding partners, Alberto Sainz de Aja del Moral and José Manuel Barrio Eguíluz, architects of ETSA University of Navarra (1991). Through the BSA Proyecta brand, architectural and engineering services have been developed at this time. Being conscious of the difficulties in the architecture and building market and the questioning of traditional models of architecture and engineering services, BSA Consult was born, seeking to adapt to this change to provide service to its clients in real estate consulting.

Since 1991, BSA has developed its commercial activity providing all kinds of professional technical

services in architecture, engineering and real estate consulting. As a result of this extensive experience, BSA is currently focusing its efforts on offering its clients a comprehensive consulting service, providing qualified and independent advice in each of the development phases.

Wide experience, integrating vision, creativity and search for excellence, values all applied to each new iob. these are the tools that BSA has to meet the needs of its customers. 2017 marks the 25th anniversary of BSA.

MOST IMPORTANT CONTESTS AND PRIZES 2017_ Grand Prix Europa Nostra 2017, Monastery of San Juan Roof, Burgos 2015 2016_ Selected work FAD Awards, Monastery of San Juan Roof, Burgos. 2015_ IX Architecture and Urbanism Prizes of Castilla y León, Accesit Monasterio de San Juan,

2012_ Best Public Building Award of the College of Architects of Castilla y León Este (Burgos). 2009_ 1st. Prize for the Central Competition of pneumatic collection of urban waste from Burgos; 1st Prize Conc. Of ideas Urbanization of the surroundings of the National Museum of Energy and Park of the Ribera del Sil in Ponferrada (León).

2007_ 1st. Interior Architecture Award of the College of Architects of Castilla y León Este (Burgos). 2006_ 1st. Prize Conc. 39 VPO Flex in Burgos. 2004: 1st. Prize Conc. 91 VPO in Aranda de Duero.

FCC_ contractor company

FCC has developed the construction activity since 1900, initially through Fomento de Obras y Construcciones (FOCSA) and since the mid-fifties as Construcciones y Contratas, S.A. (CYCSA), although each company acted separately. The company initially operated in Catalonia, mainly developing its activity in the construction sector. The hiring in 1911 of the services of cleaning and conservation of the sewage system of Barcelona, constitutes a transcendental milestone in the trajectory of the company, configuring itself as a pioneer in the policy of

José Manuel Barrio Eguíluz

Alberto Sáinz de Aja del Mora

In the fifties, the Fomento de Construcciones y Contratas group occupies a prominent position among construction companies.

FCC Construcción is the current heir to the construction experience accumulated by a business group, which has been an exceptional witness for more than a century. With accumulated experience of over 100 years, FCC Construcción is the Infraestructure Department of the FCC Group, a global environmental services, water and infraestructure group. It's activities cover construction and engineering within civil works and building. It was

a pioneer in developing it's own business model in a profitable and sustainable manner, banking on local development and contributing to the improvement of local people's quality of life. Increasing investments in the protection of cataloged historical heritage and in some cases, the need for public administrations and private initiative, to rehabilitate and

restore representative buildings to transform them into their headquarters, constitute

FCC Construcción has a long tradition in the rehabilitation, reform and restoration of buildings and has specialized personnel in this type of work, able to apply the most appropriate treatment in each case and aware of the responsibility assumed by the company to take charge of this type of actions, whether it is to solve a structural pathology or to restore a facade respecting its primitive architectural pattern or adapt an old building to a new use.

SOME HISTORICAL HERITAGE INTERVENTIONS

a guarantee of safeguarding the cultural legacy.

_Replacing the roofs in the Prado Museum and the Casón del Buen Retiro in Madrid _Rehabilitation of the National Museum of Art of Catalonia, Spain Rehabilitation of the Communications Palace for the City Hall of Madrid Rehabilitation of the Bullring of Las Ventas, Madrid

_Madrid Rio: Conditioning of the Matadero environment, Madrid

SHORT REPORT

The principal aims of the roof to cover the ruins of the church of the Monastery of San Juan, is intended to protect the architectural remains of the temple and at the same time to create a new protected space to celebrate cultural activities regardless of weather conditions. Burgos City Council is the main partner involved in the project of

the monastery. The urgent necessity to intervene in the monastery of San Juan to protect and consolidate the ruin of the old church makes it a priority for Burgos City Council. The European Urban Plan Burgos City Council has subsidy from the European Urban funds. Burgos City Council decided to use these funds to promote a new roof to cover the ruins of the church

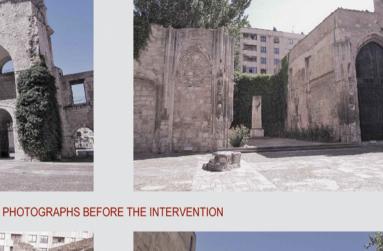
the roof to cover the architectural remains of the ancient church of

of the Monastery of San Juan. The Monastery of San Juan is a really important building, in 1944 was declared BIC (cultural interest property) by the Spanish State. Yet perhaps the main quality that makes Monastery of San Juan important at European level is its privileged location at the Way of St. James, know by the Spanish name Camino de Santiago. The monastery is a landmark for the pilgrims taking up the route of the Way of Saint James just before the entrance to the old city of Burgos across the Arco de San Juan. The Way of St. James was one of the most important Christian pilgrimages during the Middle Ages. Nowadays hundreds of thousands pilgrims make the Walk of

foreign people. Besides ensuring the consolidation and protection of the architectural remains, the city of Burgos will have a new multipurpose and cultural exchange space.

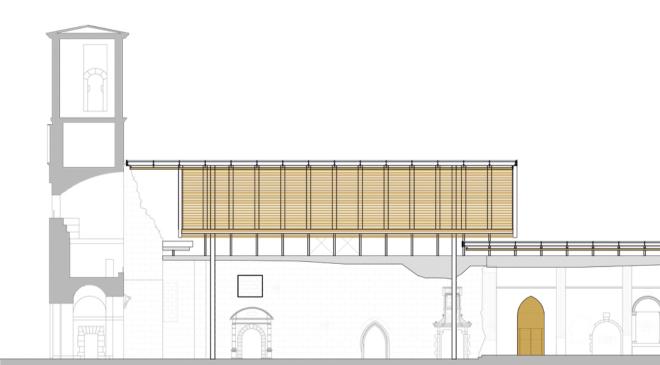
Saint James across Europe by foot or bicycle. Most of them are religious pilgrims looking for a spiritual adventure but many other pilgrims only make the Way for travel, sport or meeting other



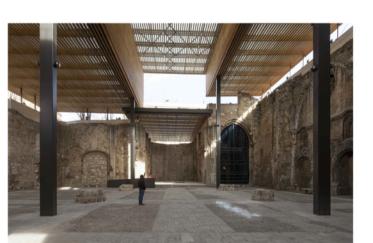








SECTION 02_ 1/300



GROUND FLOOR PLAN_ 1/300

SECTION 01_ 1/300

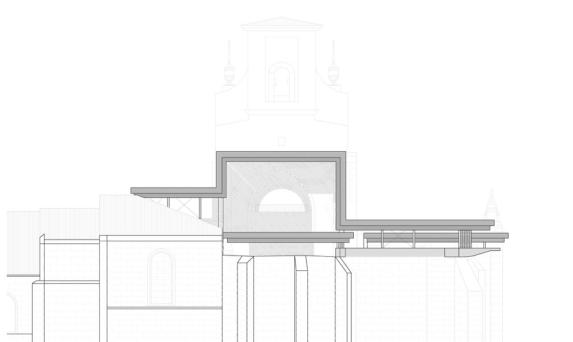
ELEVATION 01_ 1/300





ELEVATION 02_ 1/300





Only the perimeter walls of the church are preserved, leaving the interior as a large empty space devoid of buildings and with hardly any remains, except for the base of some pillars. Those ancient remains make it possible to intuit the design of the many chapels that were built there between the fifteenth and sixteenth centuries. Two serious fires devastated the monastery in 1436 and 1537, but it was definitely the French Napoleonic troops in their withdrawal with the explosion of the castle which ended up tearing down the church of the monastery of San Juan.

MSJR monastery of san juan roof_Burgos



The new roof takes the shape of a large folded plane that evokes and takes us from its

essence to the ecclesiastical typology of the three-nave temple that originally existed.

Two horizontal planes have been added to the folded surface in order to cover the apse

and the northwest area. This set of plans, blending the contemporary vision with the

respect for the remains of the church, seems to "float" above the ruin as an independent structure keeping the perception of architectural remains unaltered. From a construction point of view, this proposal is strongly respectful towards the

The planes of the cover are extended beyond the limits of the ruins, above walls, in

order to ensure that the ancient architecture is protected. So as to affect as little as

possible the archaeological substrate the cover support is reduced to a minimum with

pillars located in the central nave. Limiting the number of pillars inside the church gives

a clean and clear understanding view resulting from the absence of elements that could

The project tries to give different cover with respect to ruins perceptions according to

each point of view. The size of the cover was a very important point to consider from

the beginning of the project to evidence the contemporary character and depth of the

proposal while keeping the value of the historical remains. In this regard, very special

care was taken to minimize the visual impact from the Arco de San Juan as it is the

historic entrance to the old town. From this spot there is no perception of the cover and that is because the cover has been adapted to the different facade heights, tower and

roofs to situate it in a clear background with regard to the architectural remains of the

main facade in San Juan Square. On the contrary, if we look at the Monastery of San

Juan from behind (Alvar García street or Calzadas street), where the city and urbanism

Lighting is key in the intervention. Inside, the natural light filtered through the wood

lattice accentuates the covered-uncovered spirit of the proposal and highlights the

value of the ruins. However, at night a careful spot lighting of the architectural remains

and an indirectly projected general lighting of the wood lining gives to the monumental

space a suggestive enhancement. From the outside, the translucent glass folding plane

The first part of the work process consisted to consolidate the existing ruin. The

removal of the vegetable mass that covered the ancient walls of the church of the

Once the architectural remains were consolidated proceeds to the implementation of

The foundation was designed to affect as little as possible the archaeological substrate.

It has implemented a micropile foundation system. This type of foundation minimally

During foundation works, an archeologist was supervising the works and categorizing

the remains of major importance obtained from the excavation. Some of these remains

The aspects that were considered important when adopting the structural system are

mainly mechanical strength and stability, safety, durability, slenderness and

constructive ease. The structure of the roof has been resolved with a metal structure

The structure was designed and calculated by specialized engineers in singular solutions. During the works, engineers redesigned and recalculated the structure to

affect as less as possible to ancient walls. The structural design was conditioned by

presence of only 4 pillars of 12 to 15 meters of height that sustain the entire central

space. In order to avoid the push of the wind in the large vertical planes of the new roof,

the ancient walls were used as a support. A band made of white concrete was

designed over and along the walls. Over this band, a small laminated steel supports

The foundations of the four main central pillars are solved by a system of micropiles

executed in-situ with a maximum length of 17,50 meters and a diameter of 160 mm.

The large vertical planes were solved by two big trusses of 4 and 7 meters high and 31

The assembly of the structure was especially careful since it was a very difficult access

made up of HEB-500 profiles and covered with 10-millimeter plates and a weight of 4100 kg each one. The two large beams were moved in two halves each, joined by screws in the San Juan's Place before being elevated and moved into the interior of the

and Cladding of Jansen. All the used glasses are a security glasses (8 + 8 mm).

can nest in the new cover. This item was not provided in the Project

mm of section). This false wooden ceiling gives the interior of the new space a warmer look that talks in a better way with the historical remains of the ruin of the monastery.

This foundation system was chosen to avoid the archaeological substrate damage.

join the new roof with the ancient walls, working at traction-compression.

affects the protected ground. The excavation is reduced considerably.

were donated to the Museo de Burgos to conserve them properly.

Monastery of San Juan was the first work carried out.

made of laminated steel.

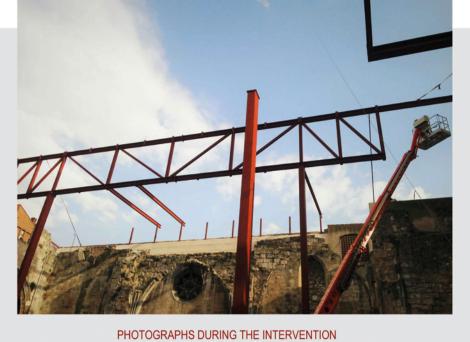
illuminated from inside acts as a lantern that reveals the intense inner cultural activity.

by being seen through a screen of trees surrounding the back ruins of the monastery.

change radically into a contemporary environment, the set of planes play a major role

architectural remains.

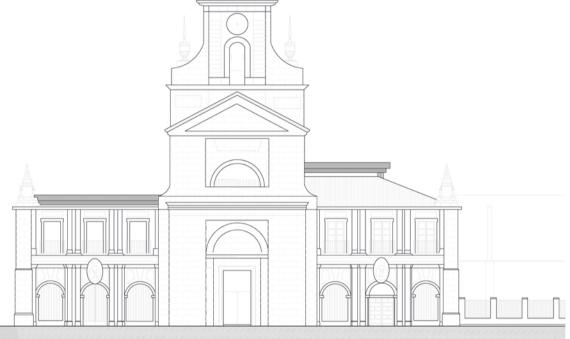
hide details of original pilasters or wall fronts.





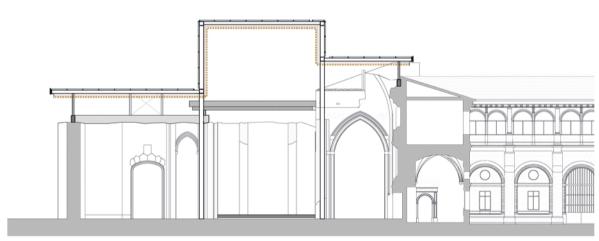








SECTION 03_ 1/300

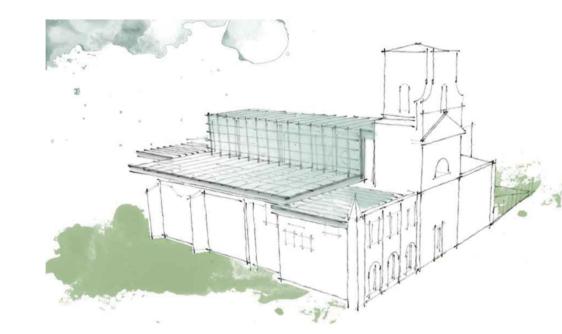








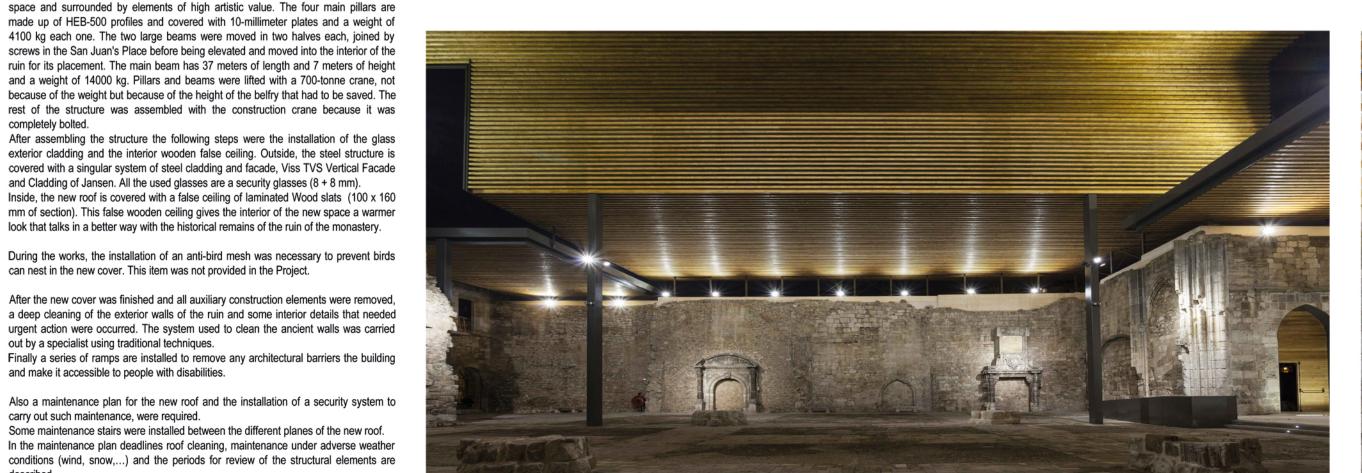




The final result of the intervention does not leave anyone indifferent. The city of Burgos has enthusiastically welcomed this new space for the city, which is now a point of reference for tourism in Burgos

NOWADAYS







Urban funds, after that Burgos City Council decided to use these funds to promote a new roof to cover the ruins of the church of the Monastery of San Juan. There are two main objectives for this project. The city council of Burgos tries to

rehabilitate and consolidate the ruin to obtain at the same time a new space isolated from the climatological conditions to celebrate different types of events for the city of Burgos. Patrimonio Cultural imposes the necessity to protect as much as possible the remains of the ruin and also try to affect in the least possible way is the archaeological

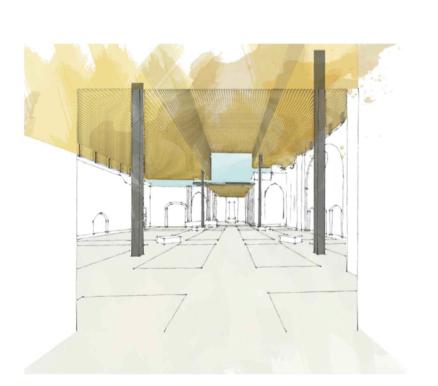
The urgent necessity to intervene in the Monastery of San Juan to protect and

consolidate the ruin of the old church makes it a priority for Burgos City Council during

In 2014 the European Urban Plan Burgos City Council has subsidy from the European

The architectural firm BSA CONSULT draws up the project attending to Burgos City Council, Patrimonio Cultural and JCyL requirements.

Previously to the drafting of the new cover a historical study of the Monastery of San Juan was commissioned to Fabiola Monzón Moya archeology. In this study the whole historical evolution of the monastery is collected from construction to this day.





The remains that are currently known as Monasterio de San Juan belong to an architectural set that is the result of a mix of constructions and transformations projected over the centuries since it emerged as a Benedictine monastery, back in the

The first phase of project development of the works consisted in the consolidation of ruin by removing plant elements that deteriorate the ancient walls. After removing the plant surface proceeded to review and, if necessary, restore parts of the walls most During the works, the project leader found it necessary to analyze the stability and the

strength of the ancient walls. The University of Burgos was commissioned to do this a deep cleaning of the exterior walls of the ruin and some interior details that needed work. Different resistance tests were made at different points of ruin. The study urgent action were occurred. The system used to clean the ancient walls was carried concluded that ancient walls had strength enough to withstand the demands of the new out by a specialist using traditional techniques. Finally a series of ramps are installed to remove any architectural barriers the building and make it accessible to people with disabilities.

> carry out such maintenance, were required. Some maintenance stairs were installed between the different planes of the new roof. In the maintenance plan deadlines roof cleaning, maintenance under adverse weather conditions (wind, snow,...) and the periods for review of the structural elements are described.

The project has finished completing everything required.