



UNIVERSITAT
POLITÈCNICA
DE VALÈNCIA



ESCUELA TÉCNICA SUPERIOR
INGENIERÍA DE
EDIFICACIÓN

P.F.G.

Modalidad científico-técnica

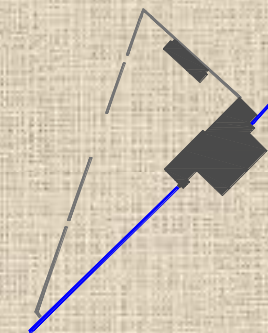
Curso 2012/13

Taller 20

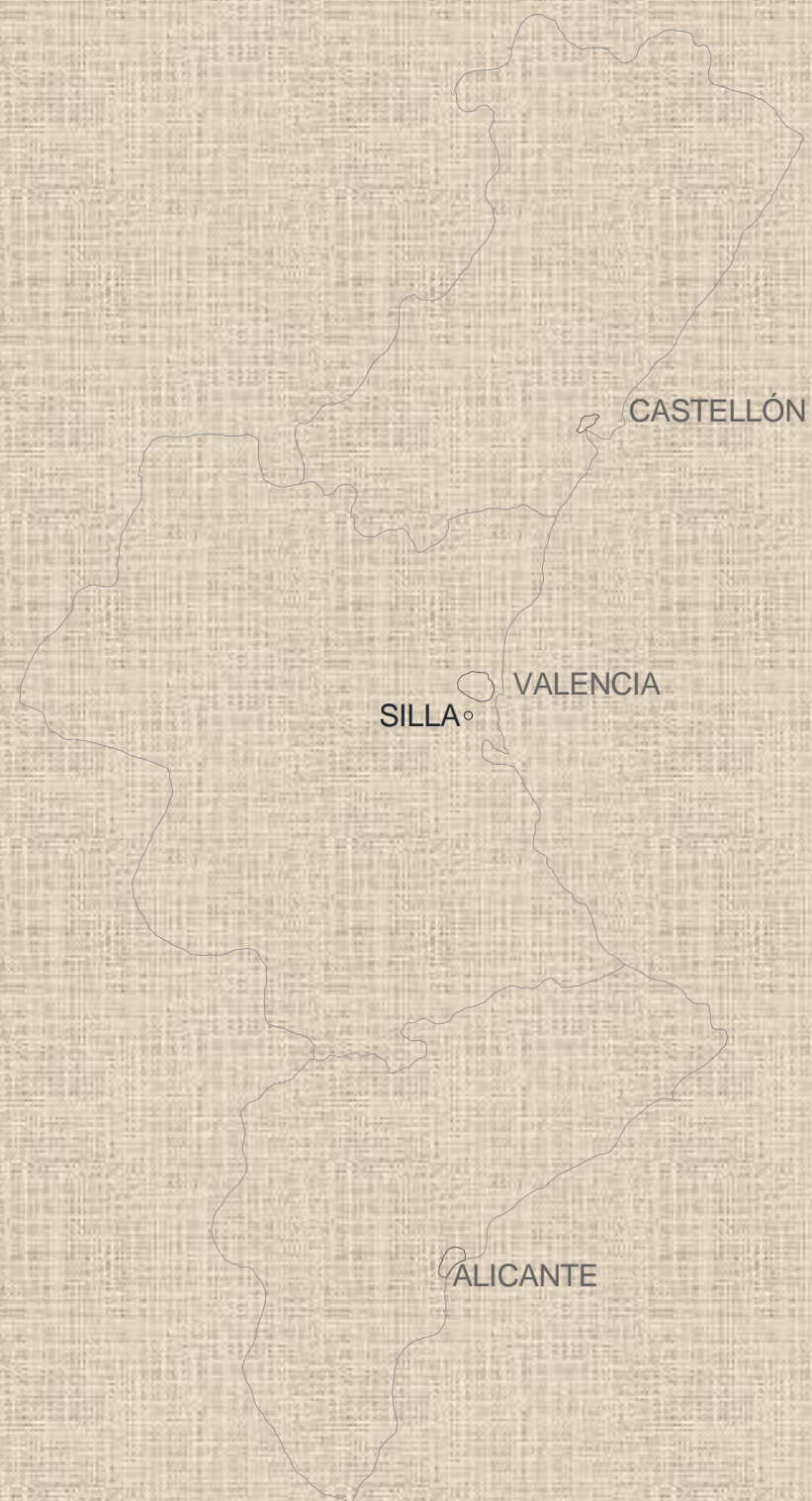
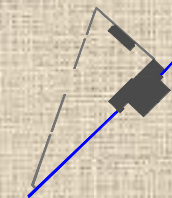
*Restauración y conservación del patrimonio
construido. Concepto, técnicas y proceso.*

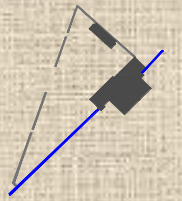
Patrimonio monumental construido.

MOLINO DE FORÉS

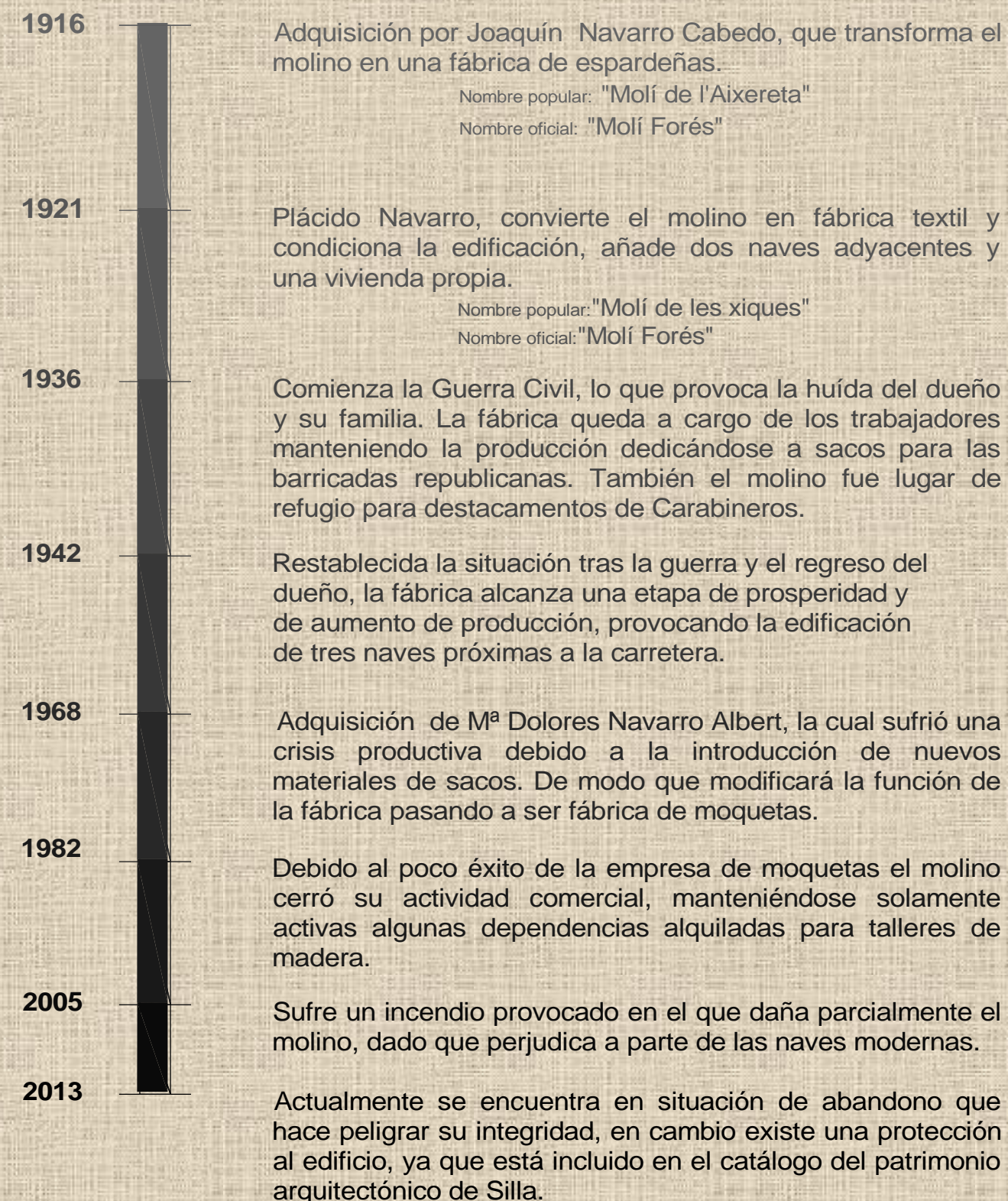
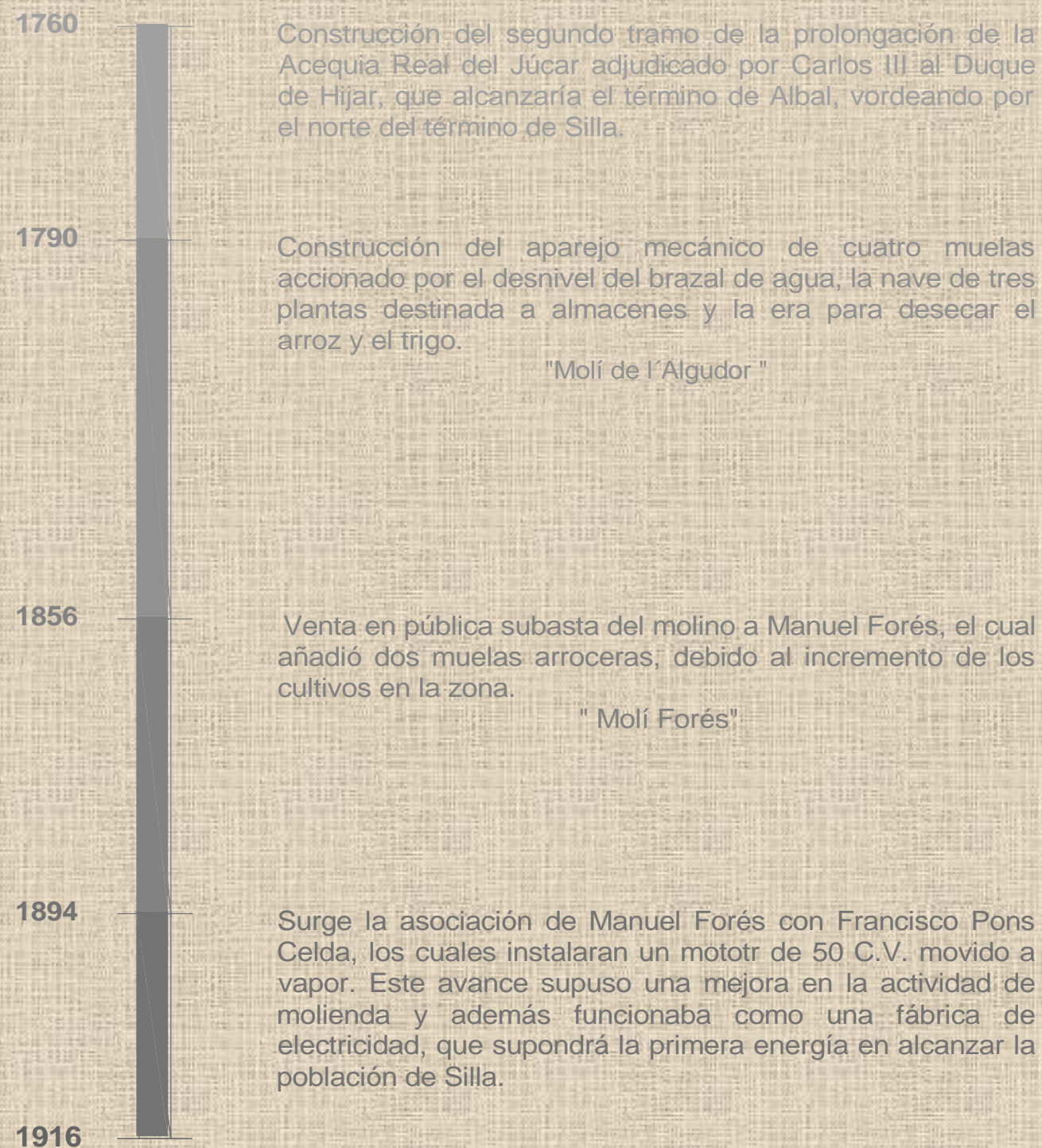
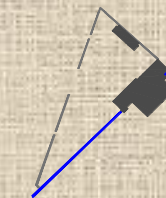


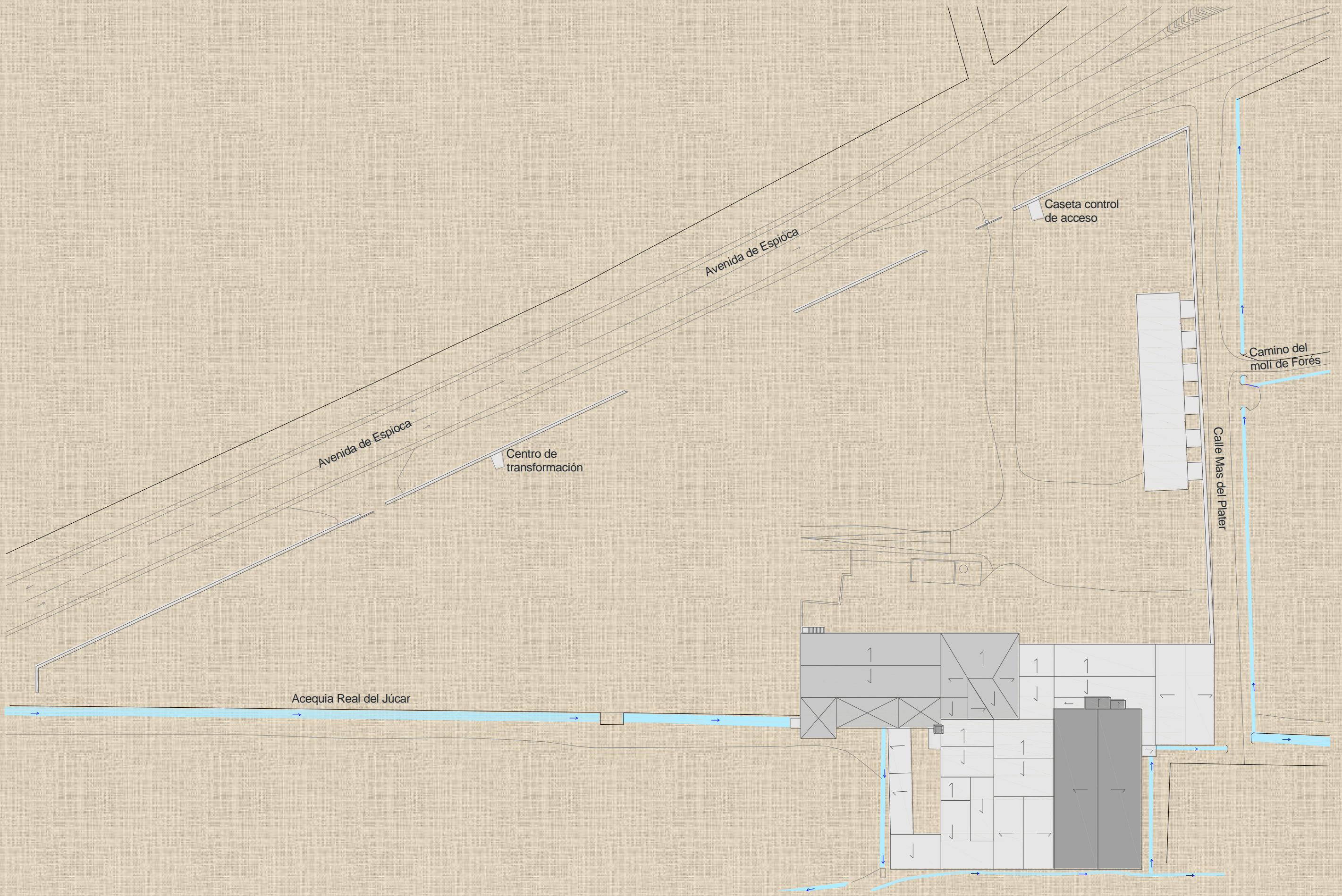
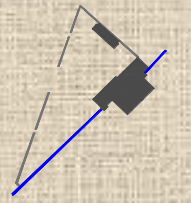
MILLÁ MARTÍNEZ, ALBERTO

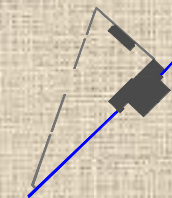




- Vías principales: V-31 y E-15 (autopista del mediterraneo)
- Vías secundarias: Camino Real de Madrid y Avenida de Esploca
- Caminos: Accesos a polígonos y campos de cultivo
- Acequias y canalizaciones
- Edificaciones
- Terrenos de cultivo

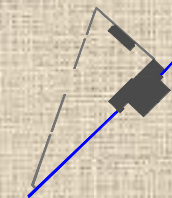


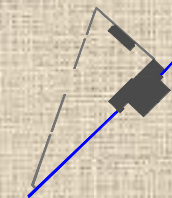




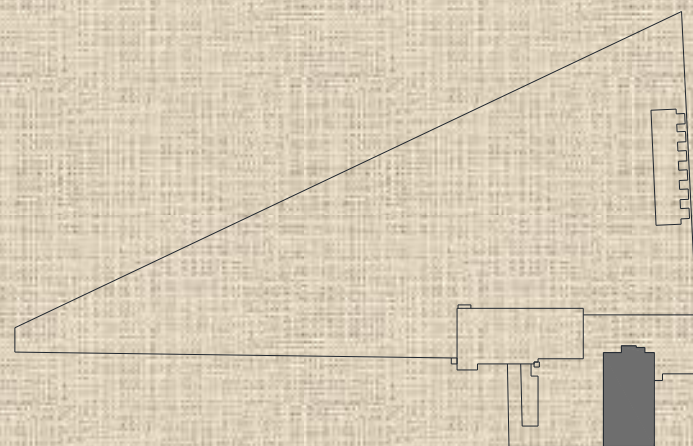
REPORTAJE FOTOGRÁFICO





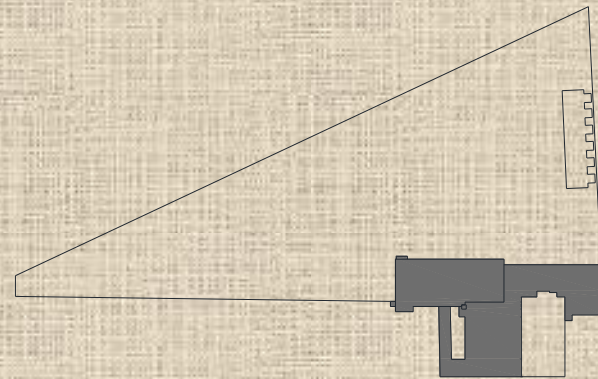


➤ NAVE PRINCIPAL:



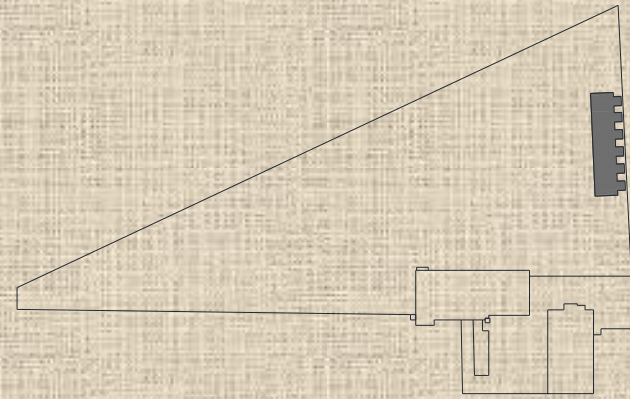


➤ NAVES ADYACENTES:



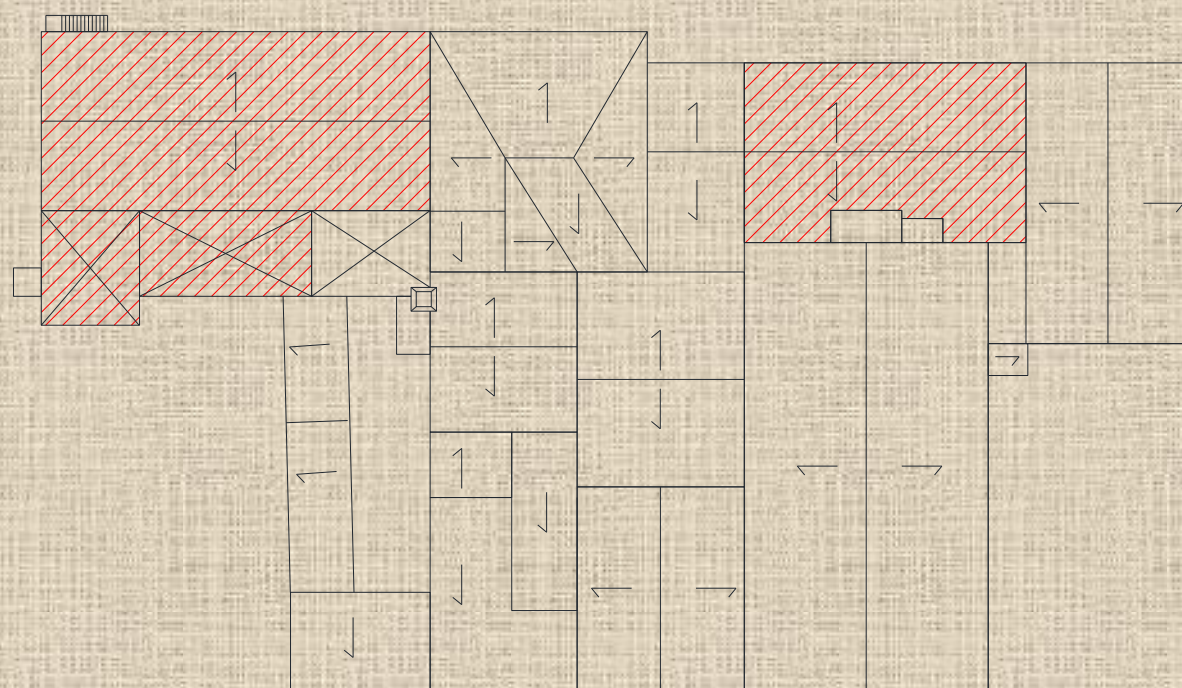
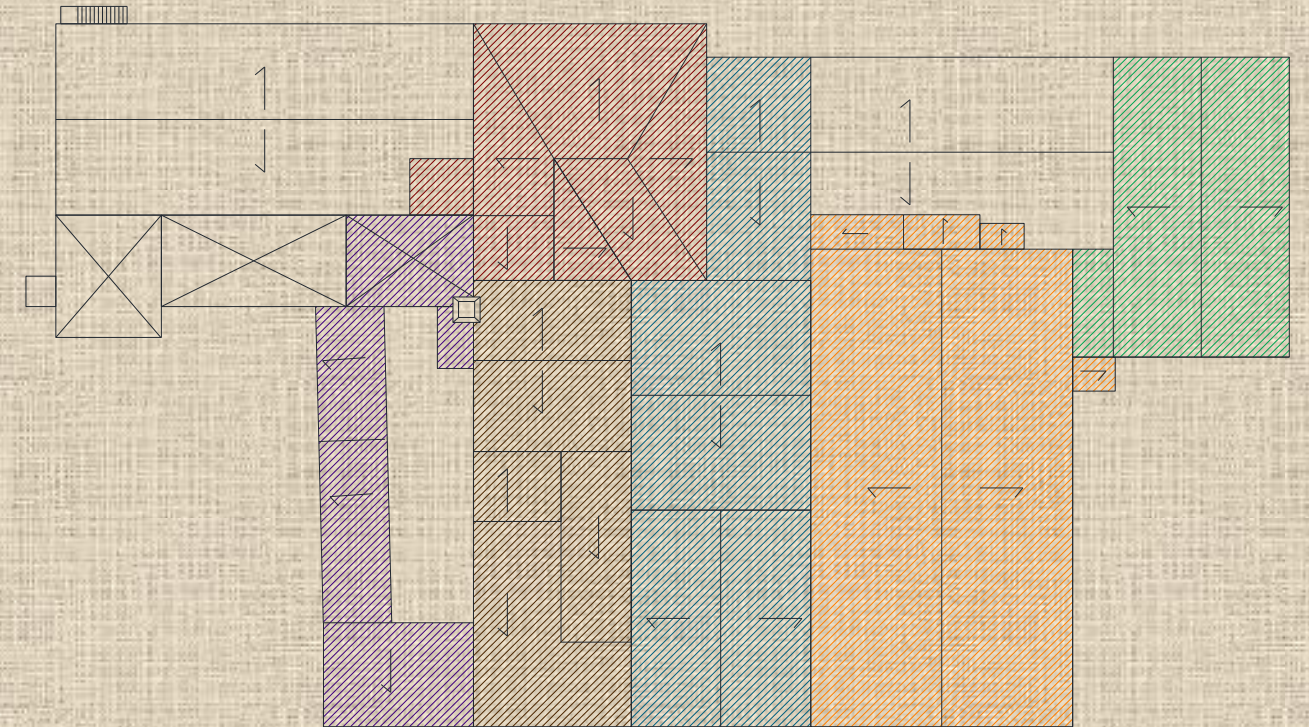
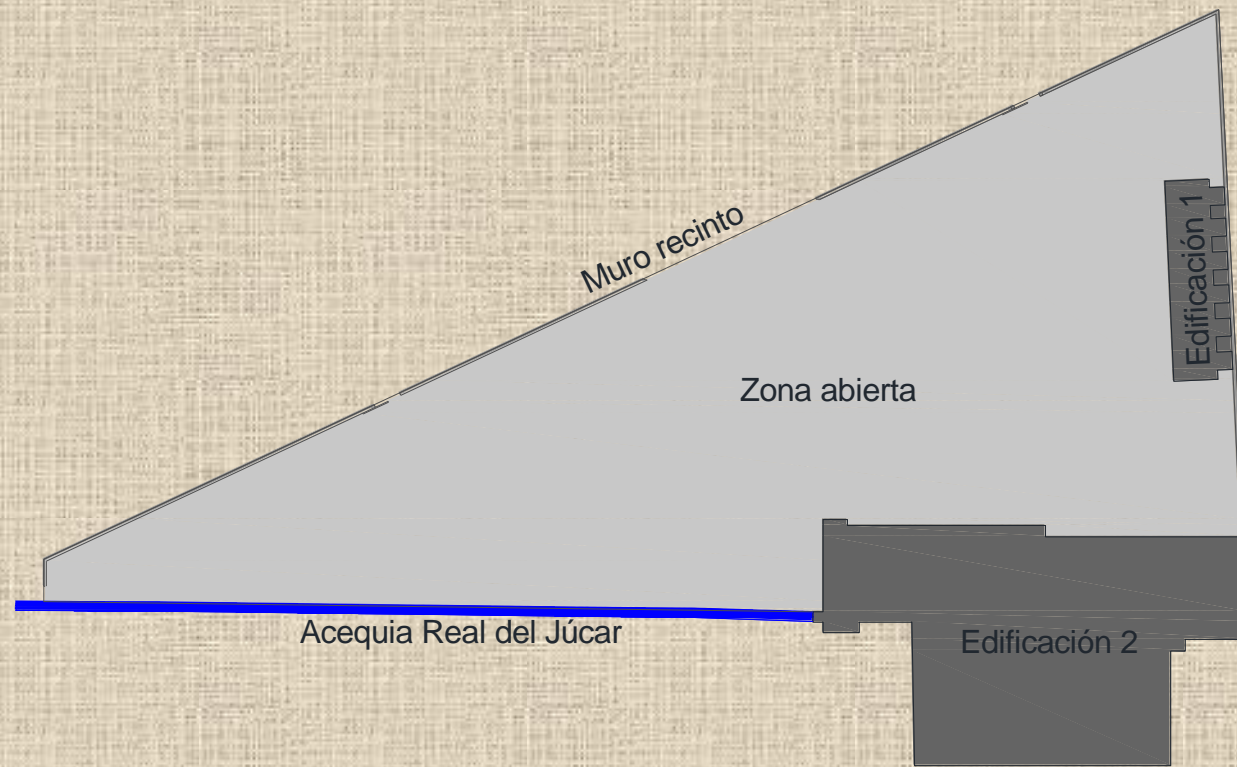








➤ BLOQUE DE VIVIENDAS DE LOS TRABAJADORES:





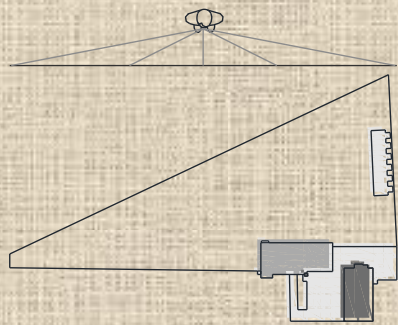
LEVANTAMIENTO PLANIMÉTRICO



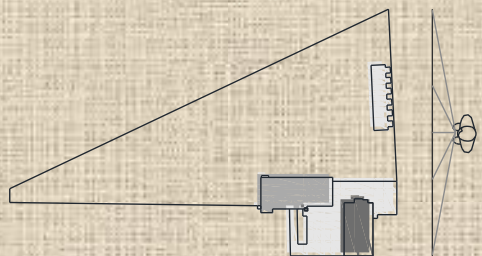
-  Bloque 1 - Nave principal de tres plantas.
-  Bloque 2 - Nave secundaria.
-  Bloque 3 - Naves que contiene el sistema hidráulico
-  Bloque 4 - Conjunto de tres naves
-  Bloque 5 - Vivienda de propietario.
-  Bloque 6 - Tres habitáculos con patio interior con la chimenea

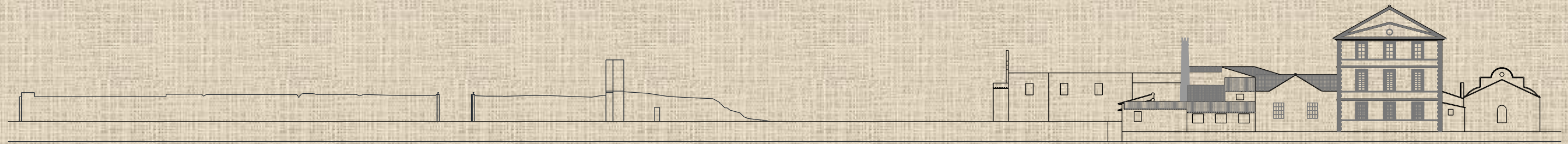


ALZADO NOROESTE - PRINCIPAL

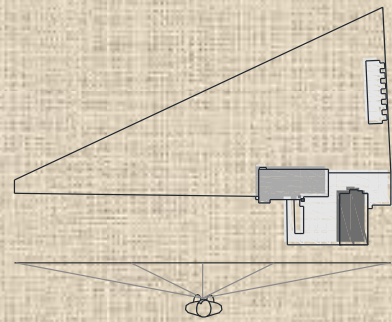


ALZADO NORDESTE

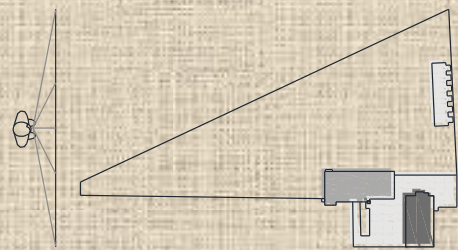


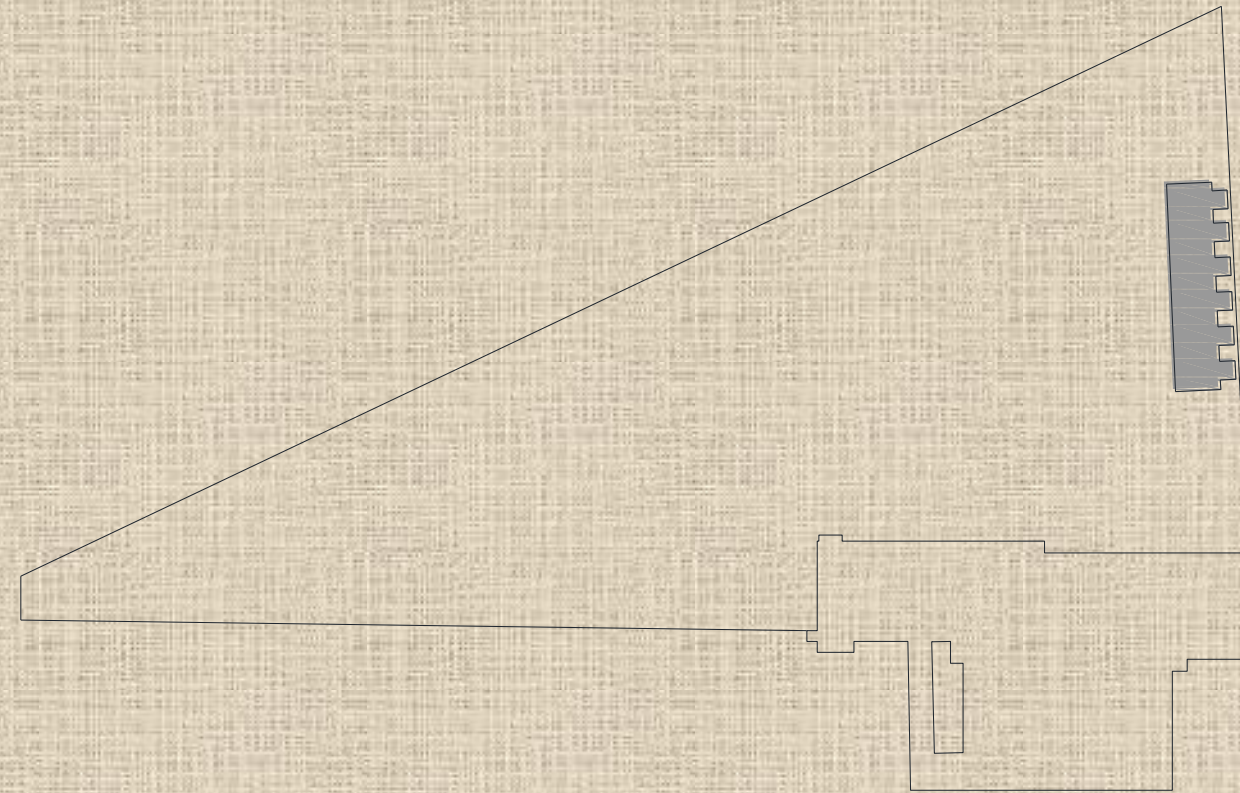


ALZADO SUDESTE

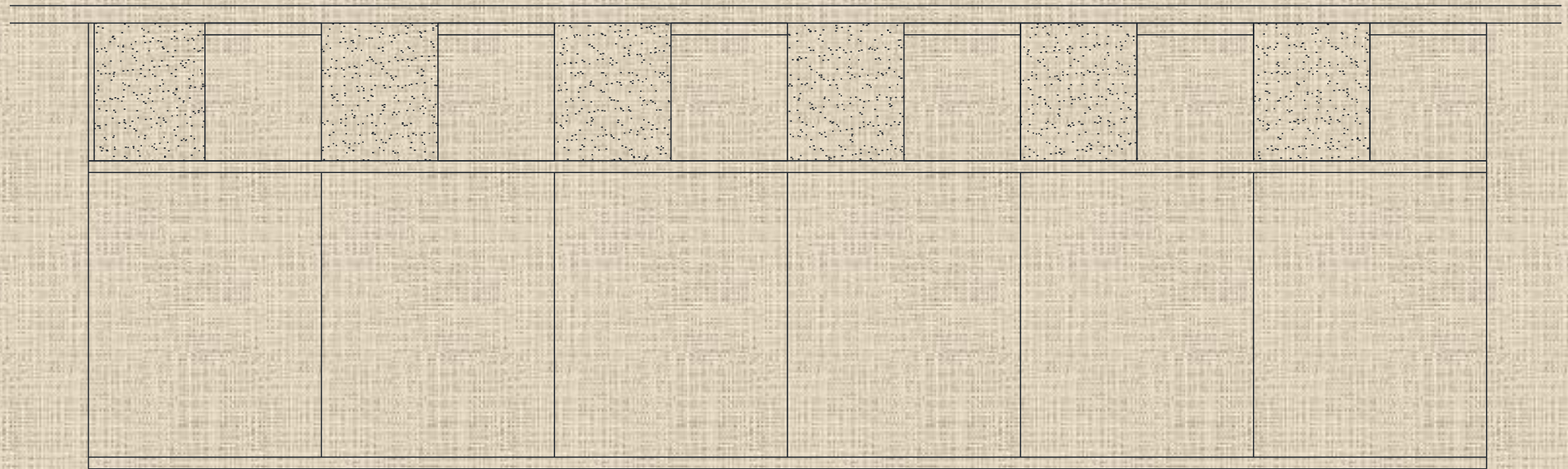
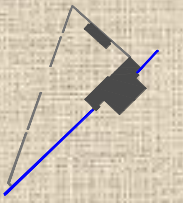


ALZADO SUDOESTE

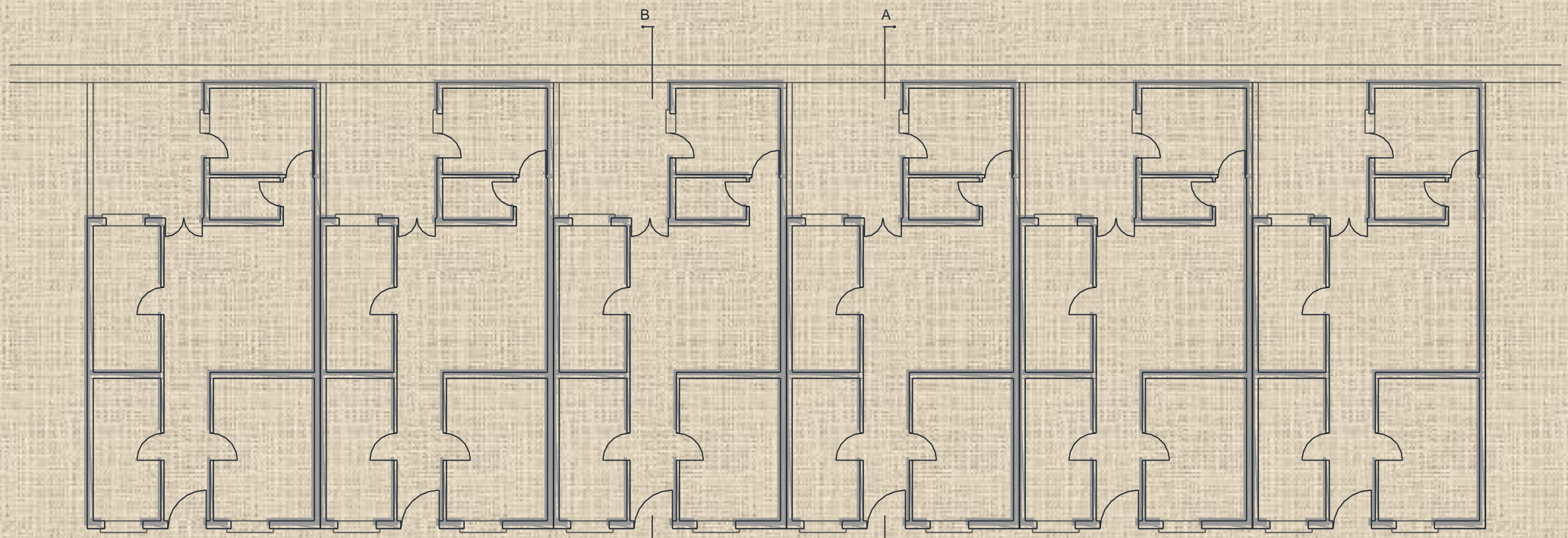
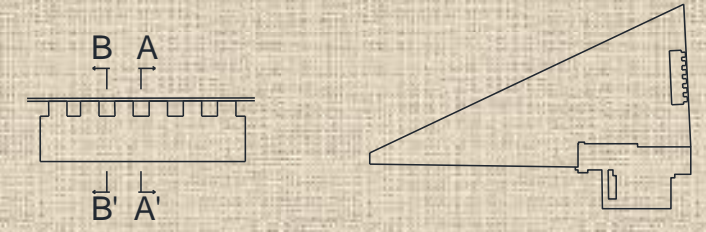




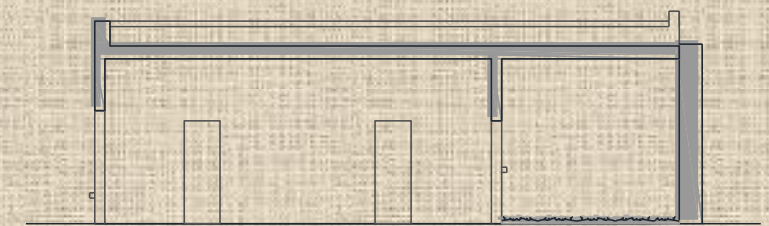
EDIFICACIÓN 1



PLANTA CUBIERTA



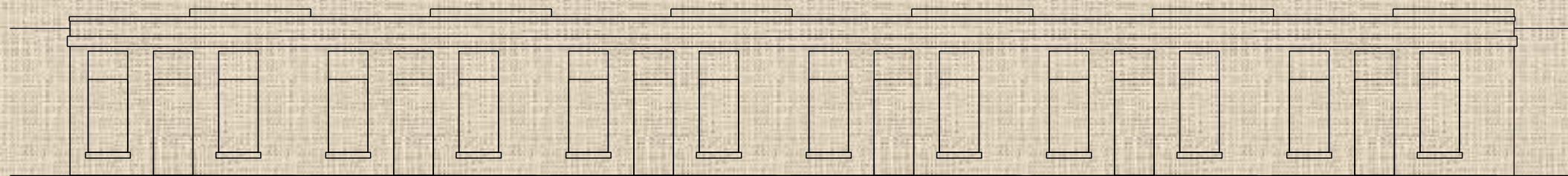
SECCIÓN PLANTA



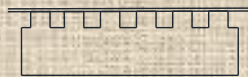
SECCIÓN A-A'



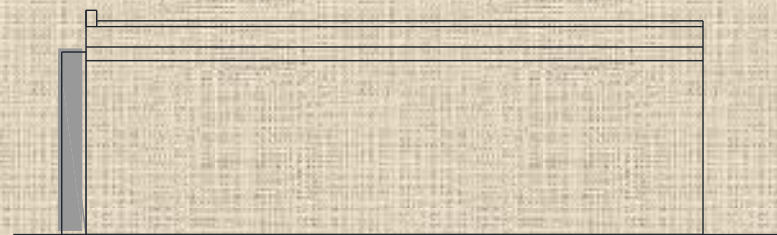
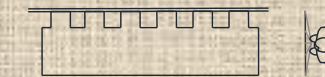
SECCIÓN B-B'



ALZADO SUDOESTE



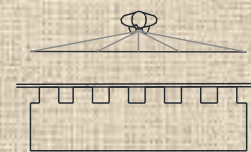
ALZADO SUDESTE

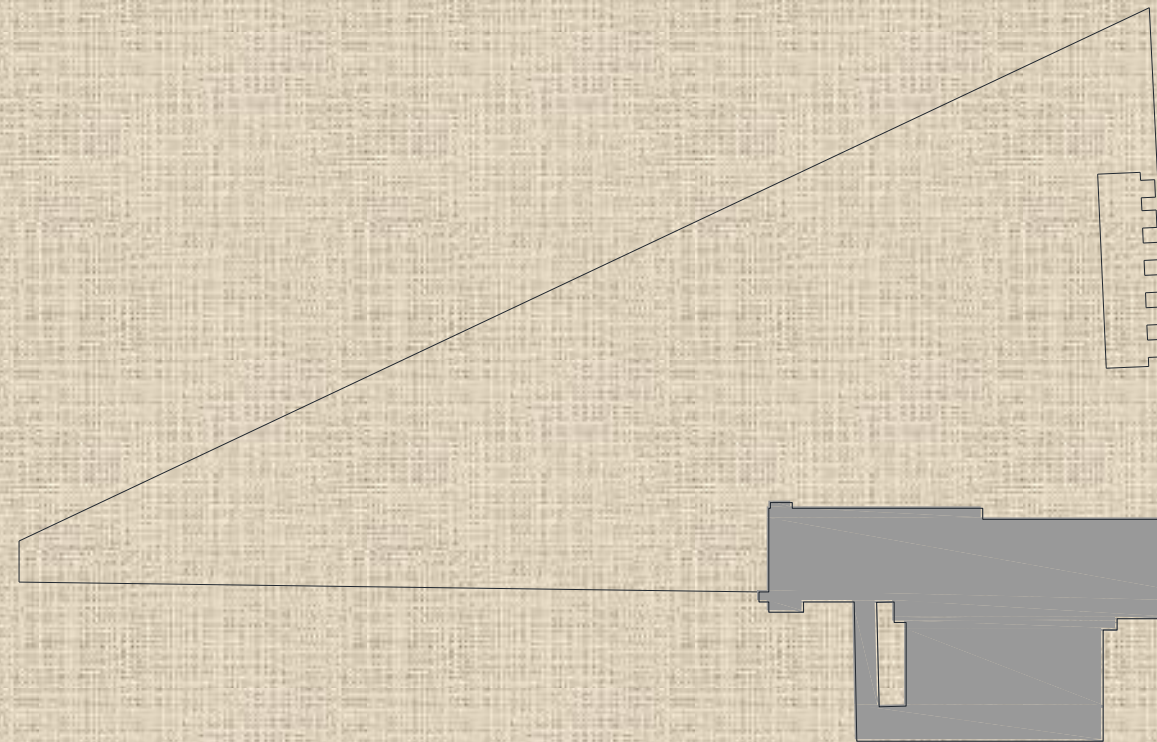


ALZADO NOROESTE

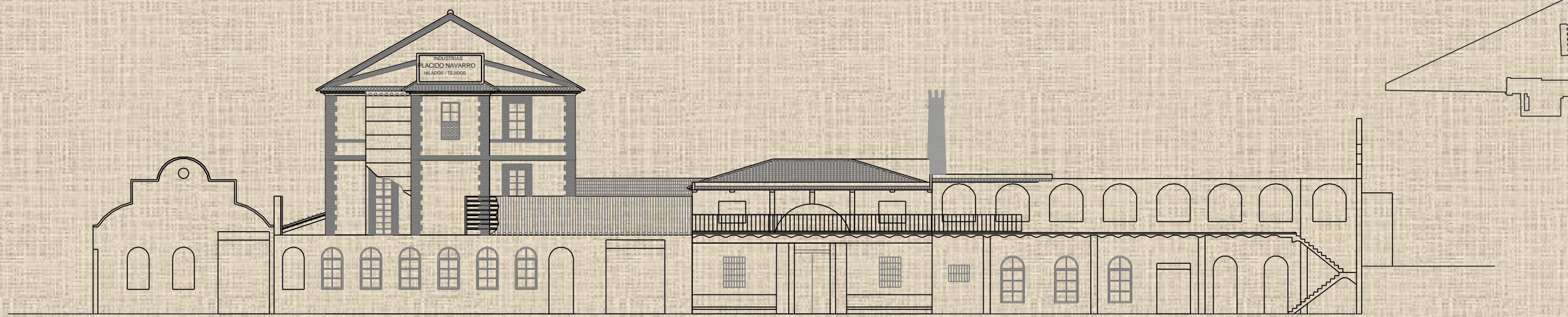
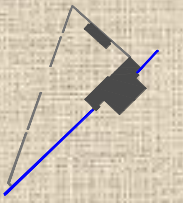


ALZADO NORDESTE

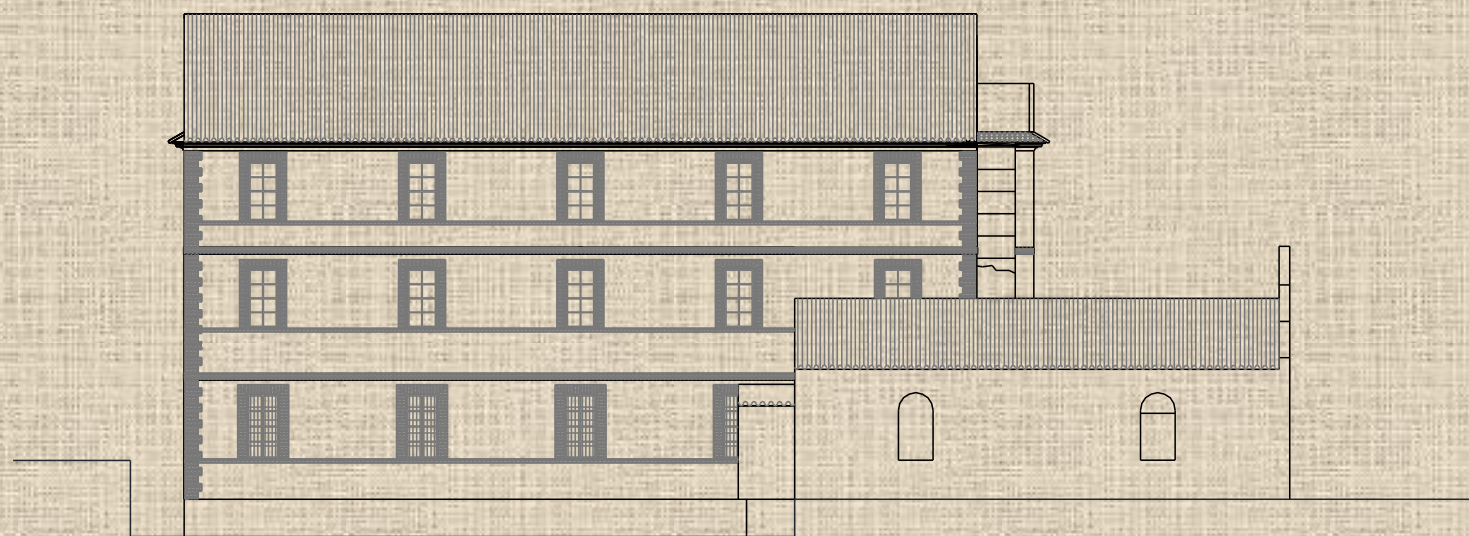
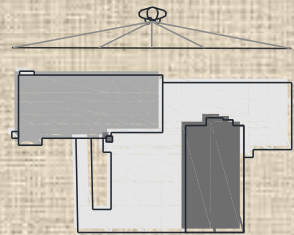




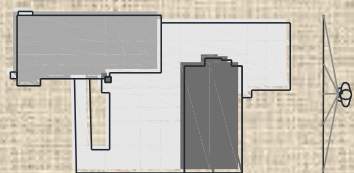
EDIFICACIÓN 2

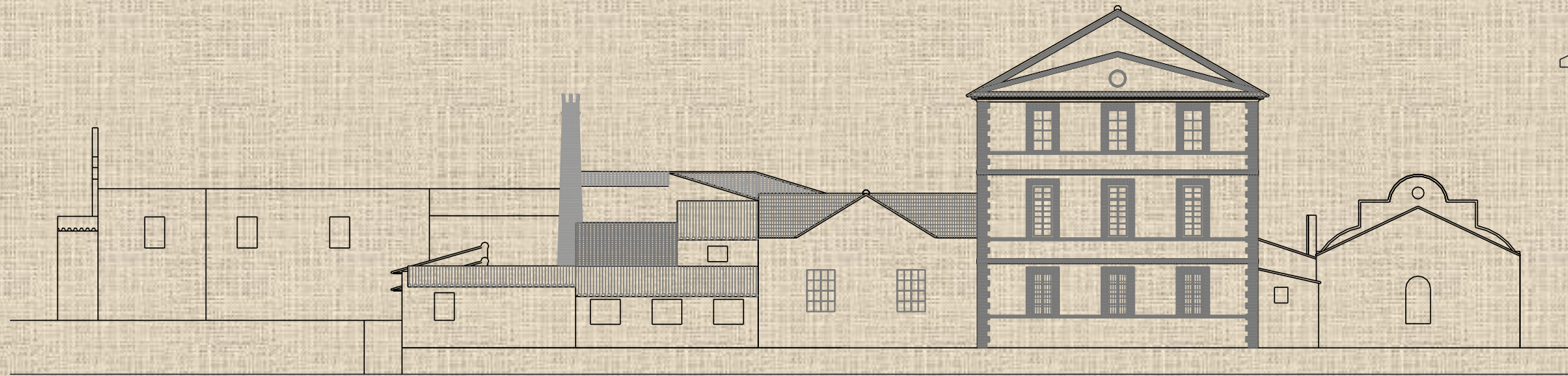
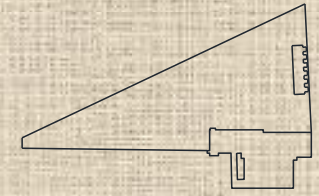
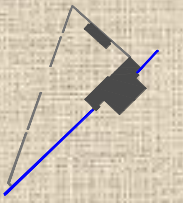


ALZADO NOROESTE - PRINCIPAL

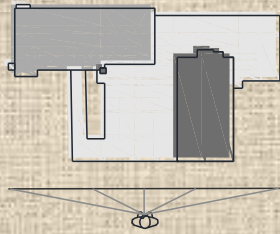


ALZADO NORDESTE

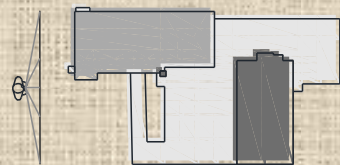


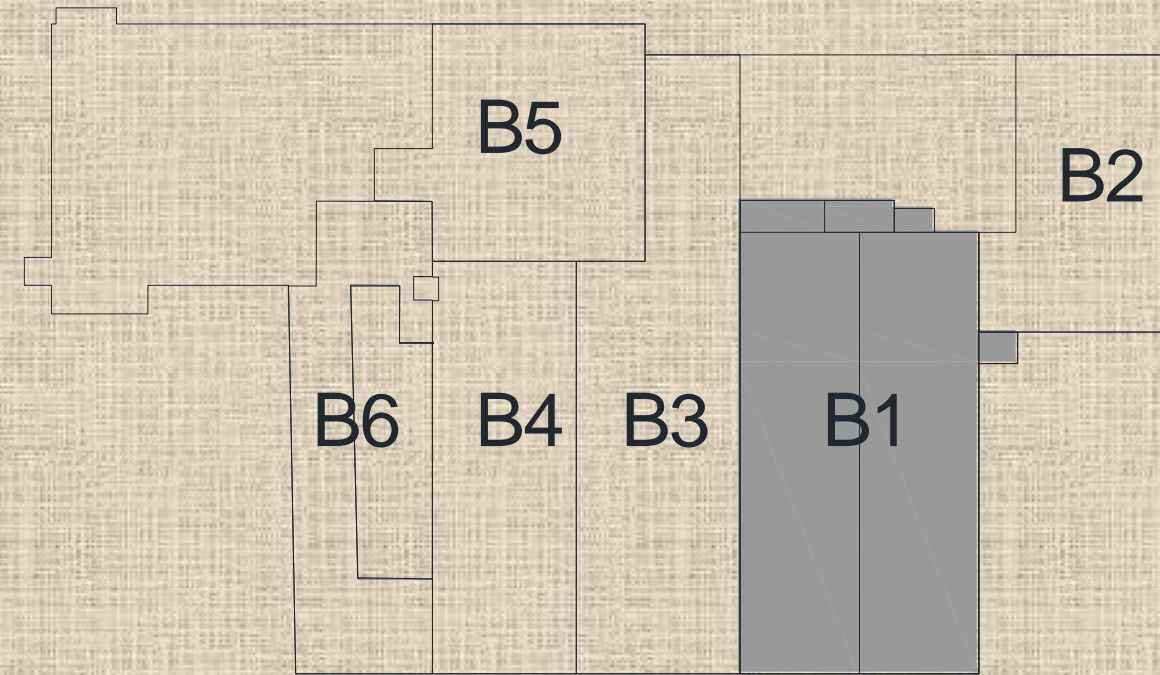


ALZADO SUDESTE

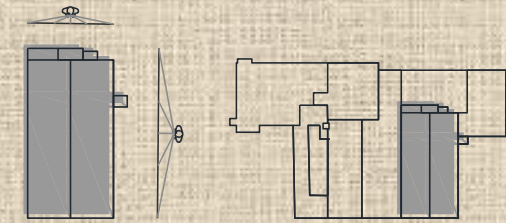
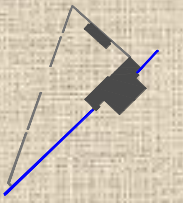


ALZADO SUDOESTE

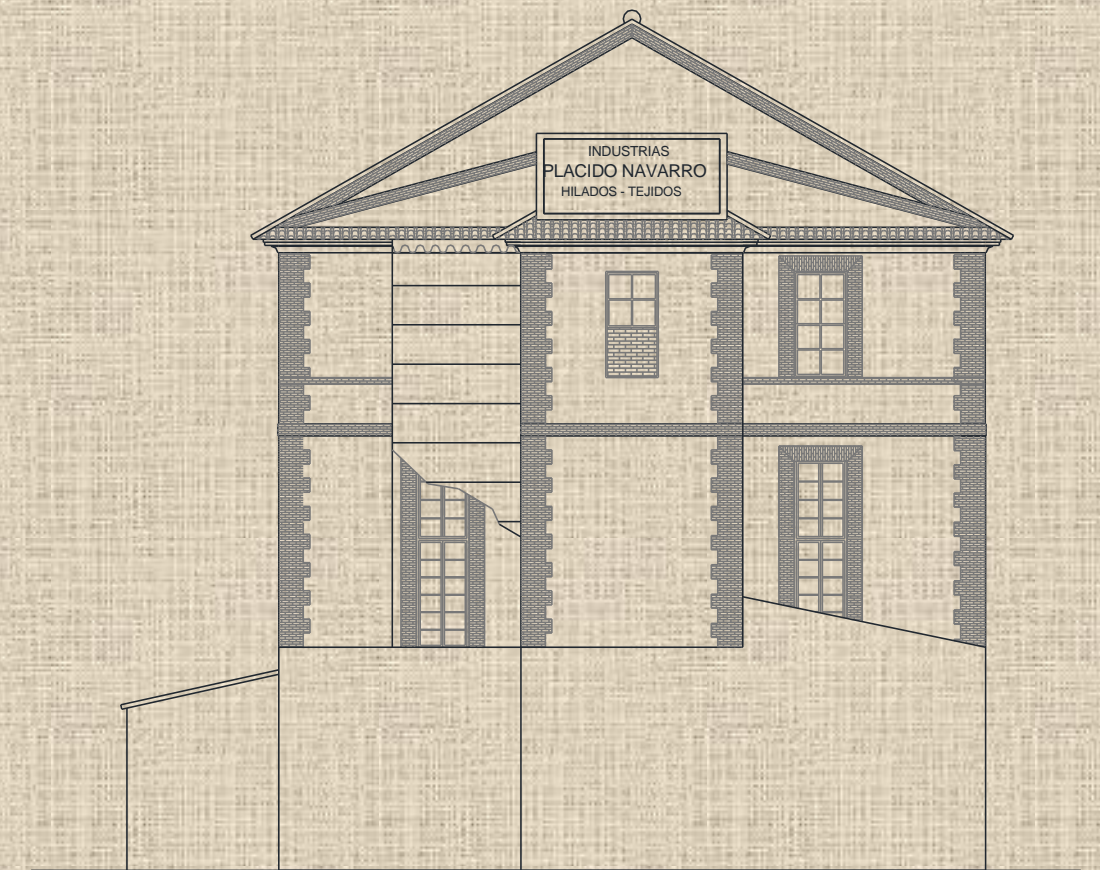
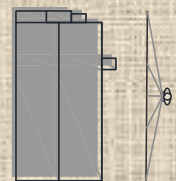




BLOQUE 1

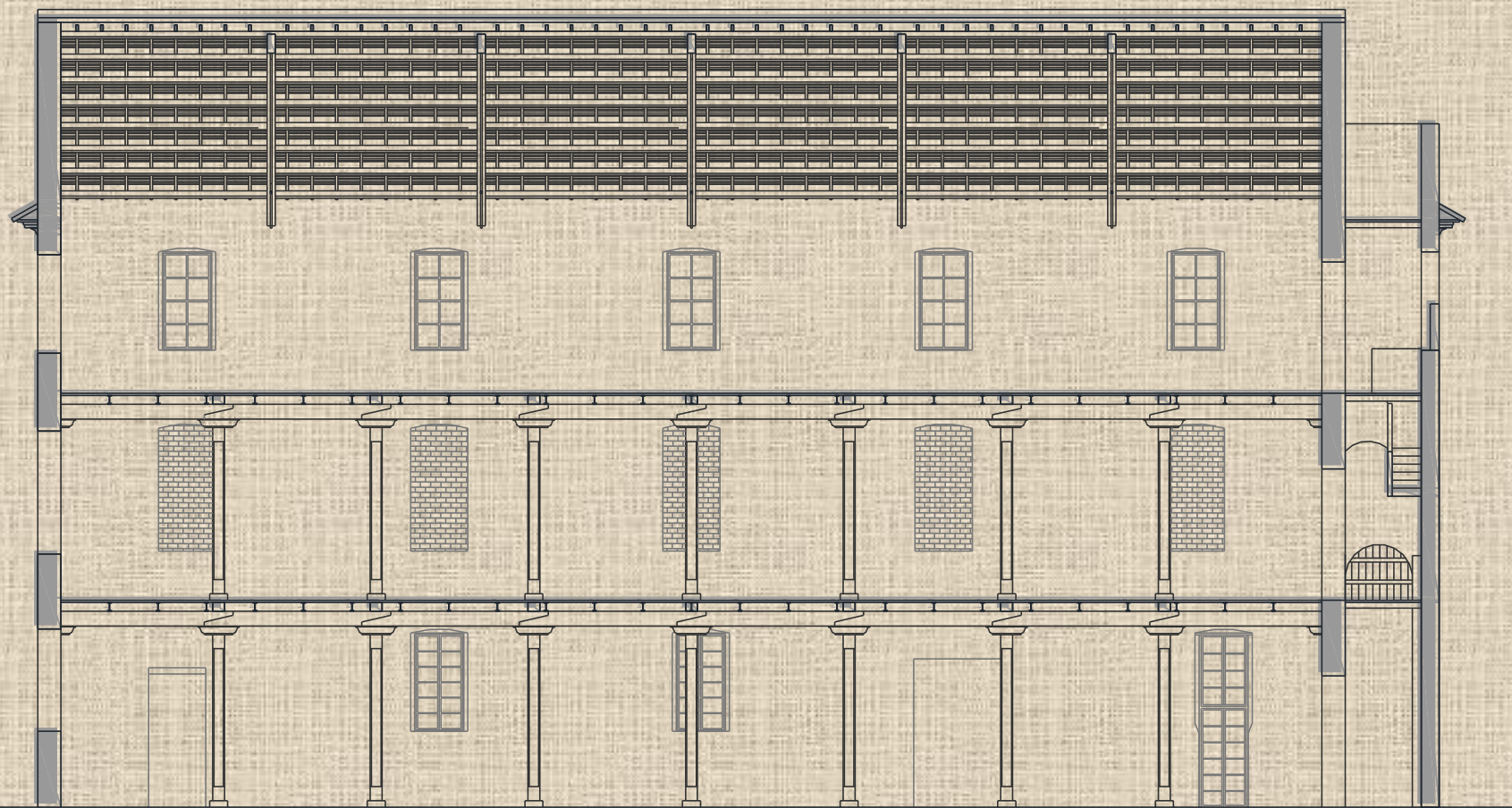
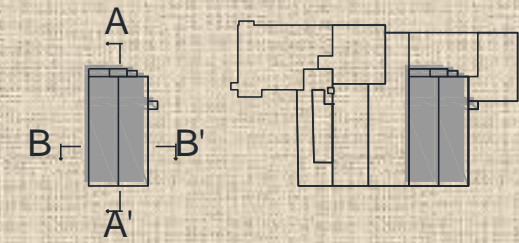


ALZADO NORDESTE

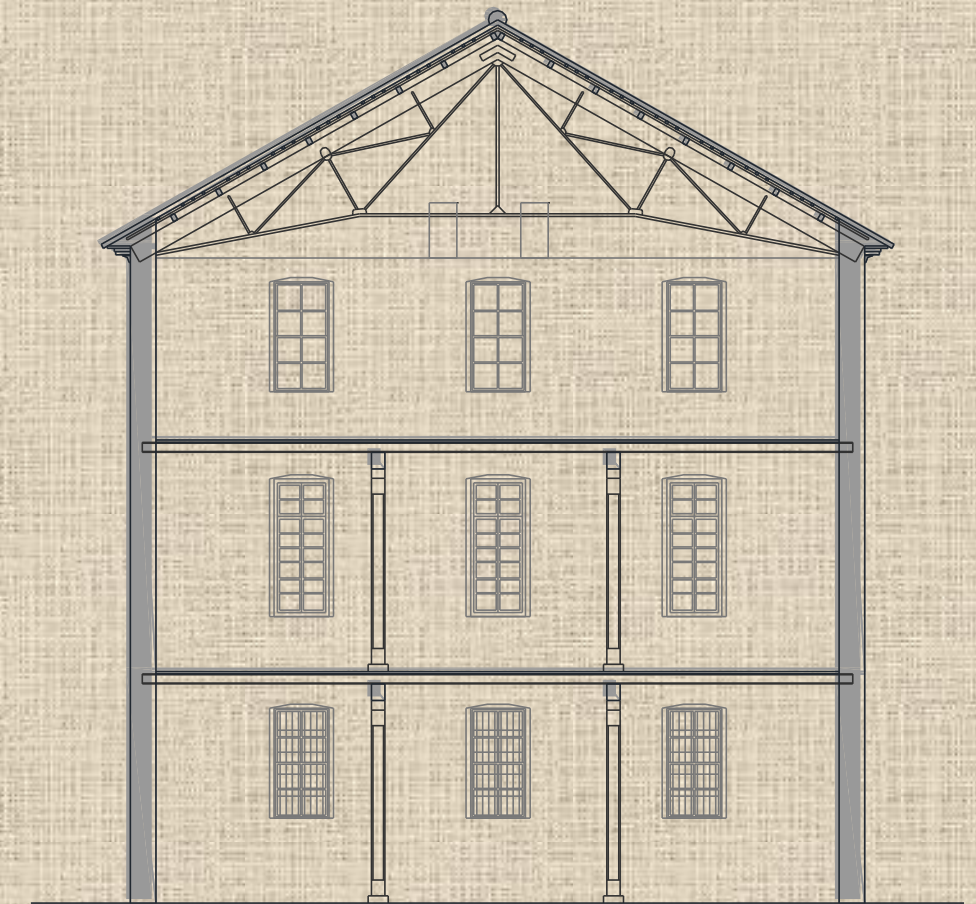


ALZADO NOROESTE

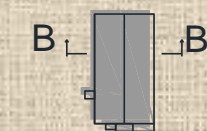


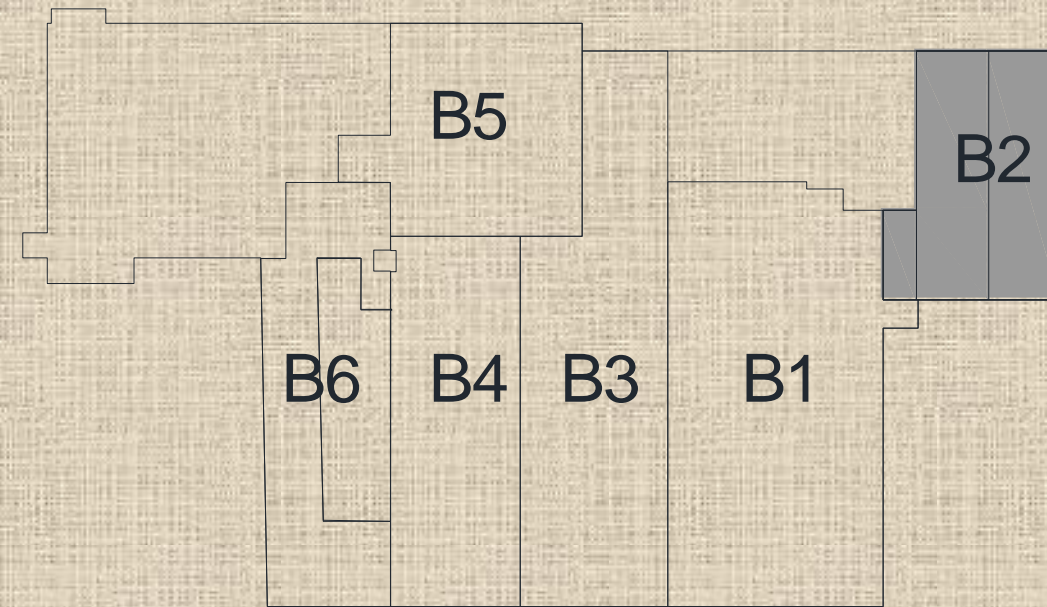


SECCIÓN VERTICAL NORDESTE

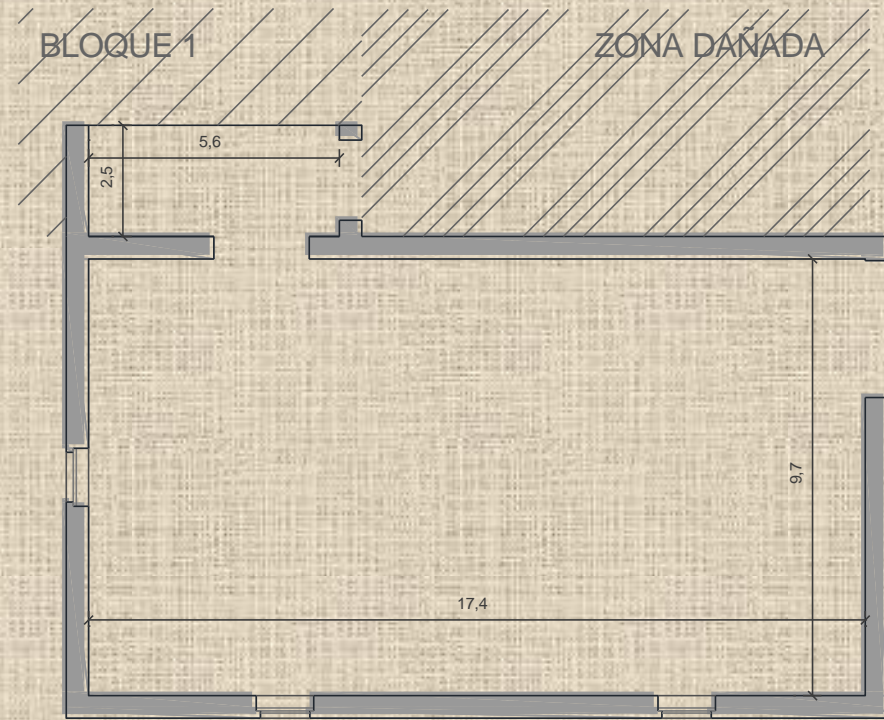
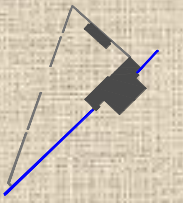


SECCION VERTICAL NOROESTE

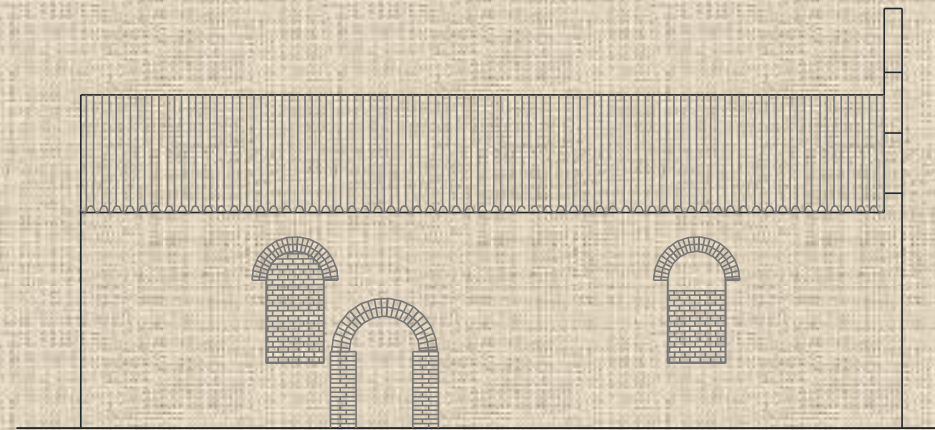




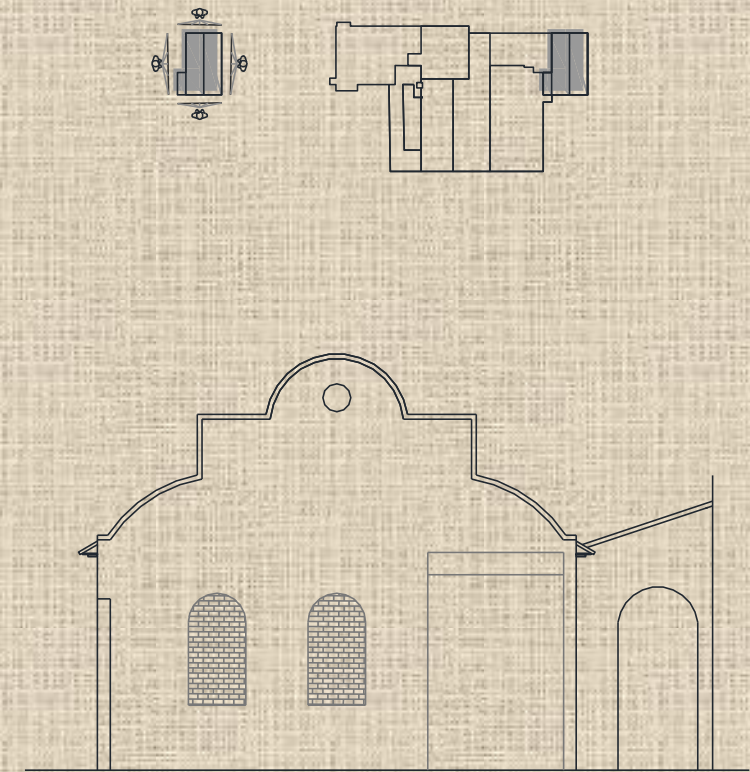
BLOQUE 2



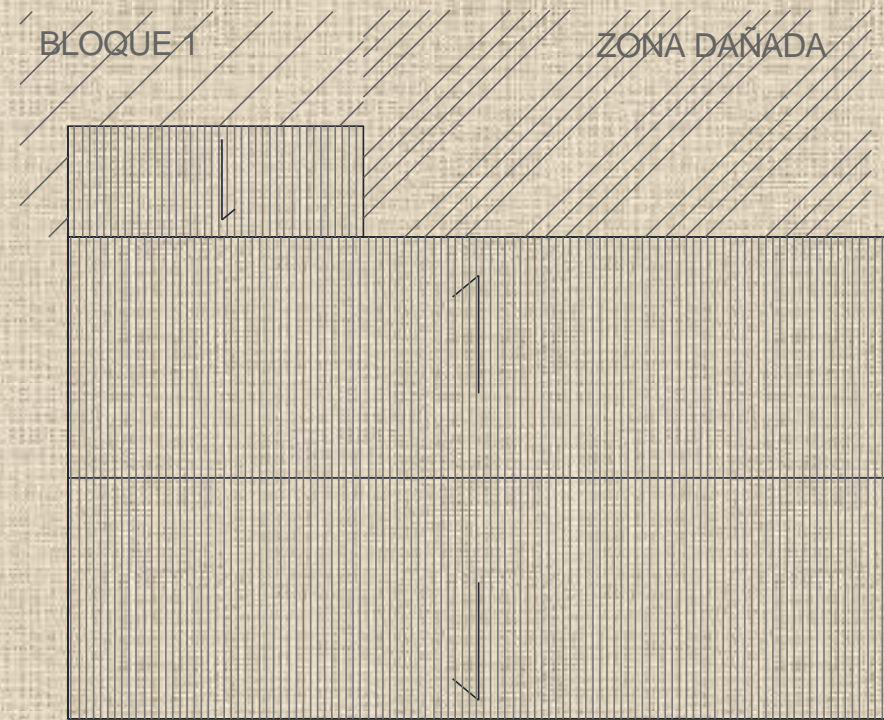
SECCIÓN PLANTA



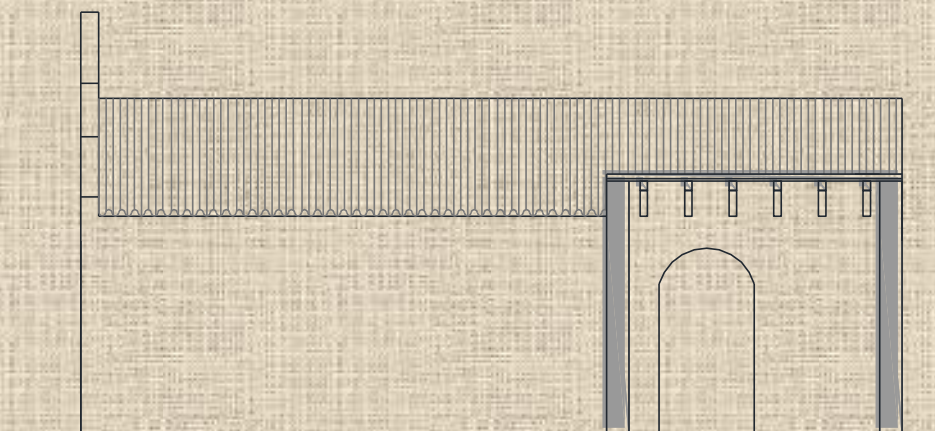
ALZADO NORDESTE



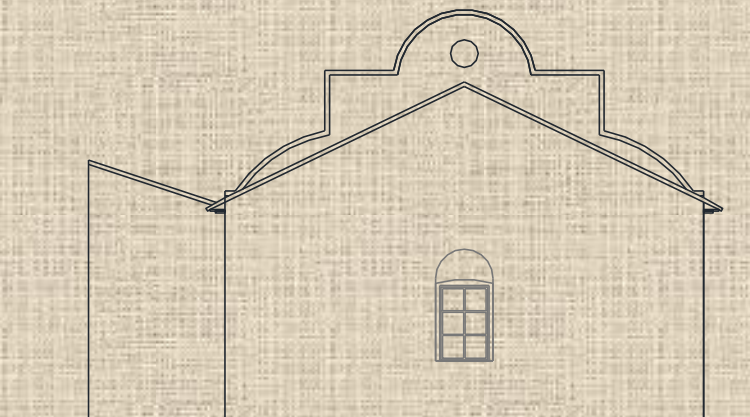
ALZADO NOROESTE



PLANTA CUBIERTA

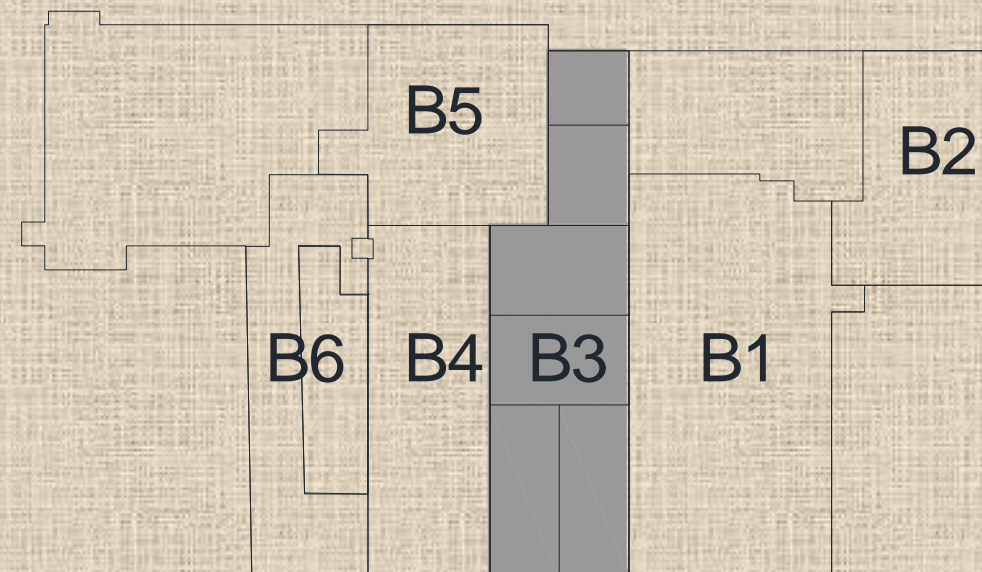


ALZADO SUDOESTE

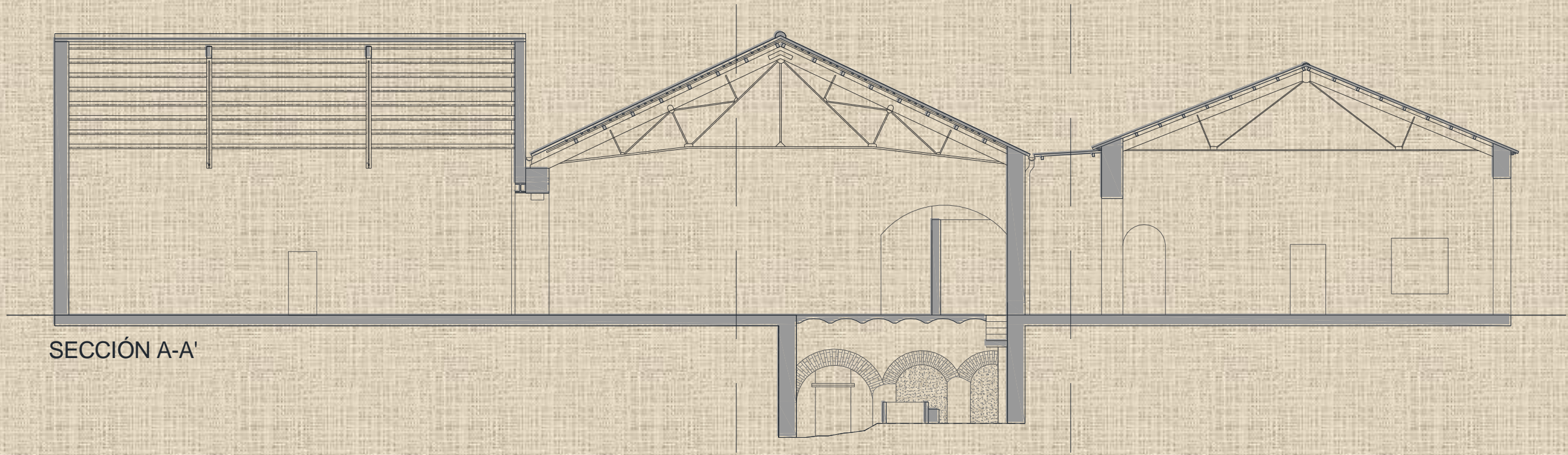
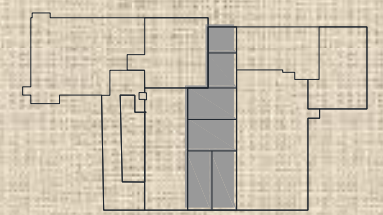
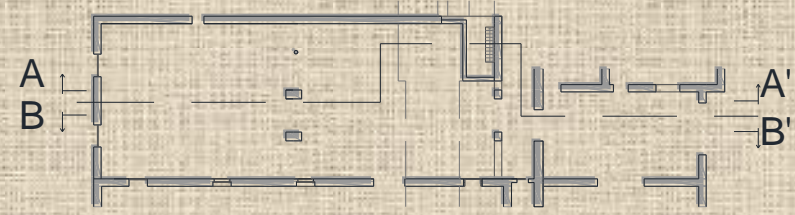
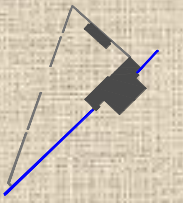


ALZADO SUDESTE

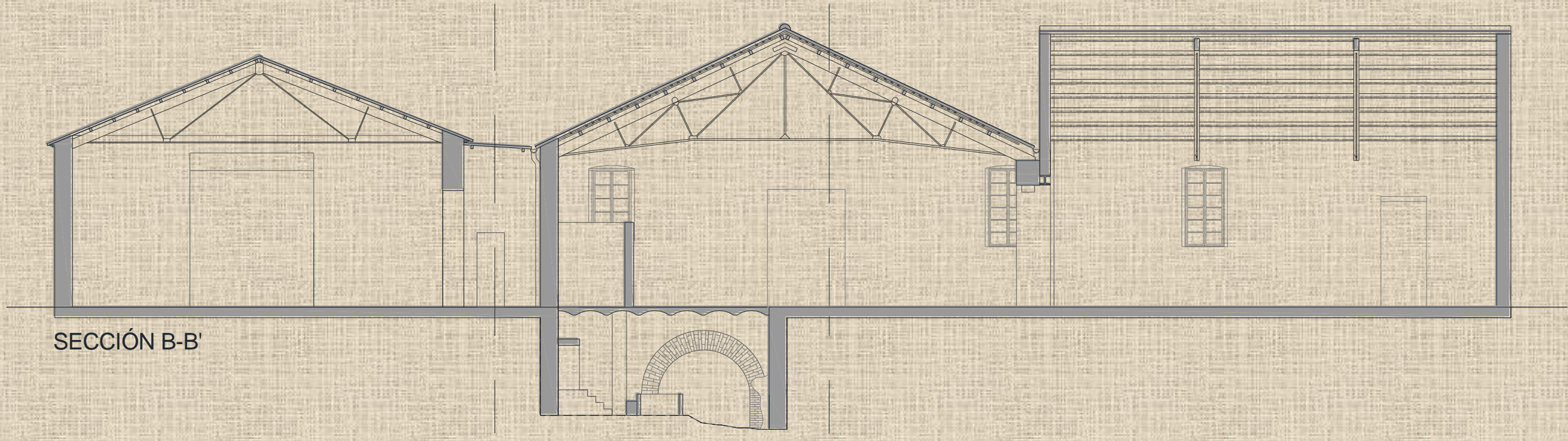




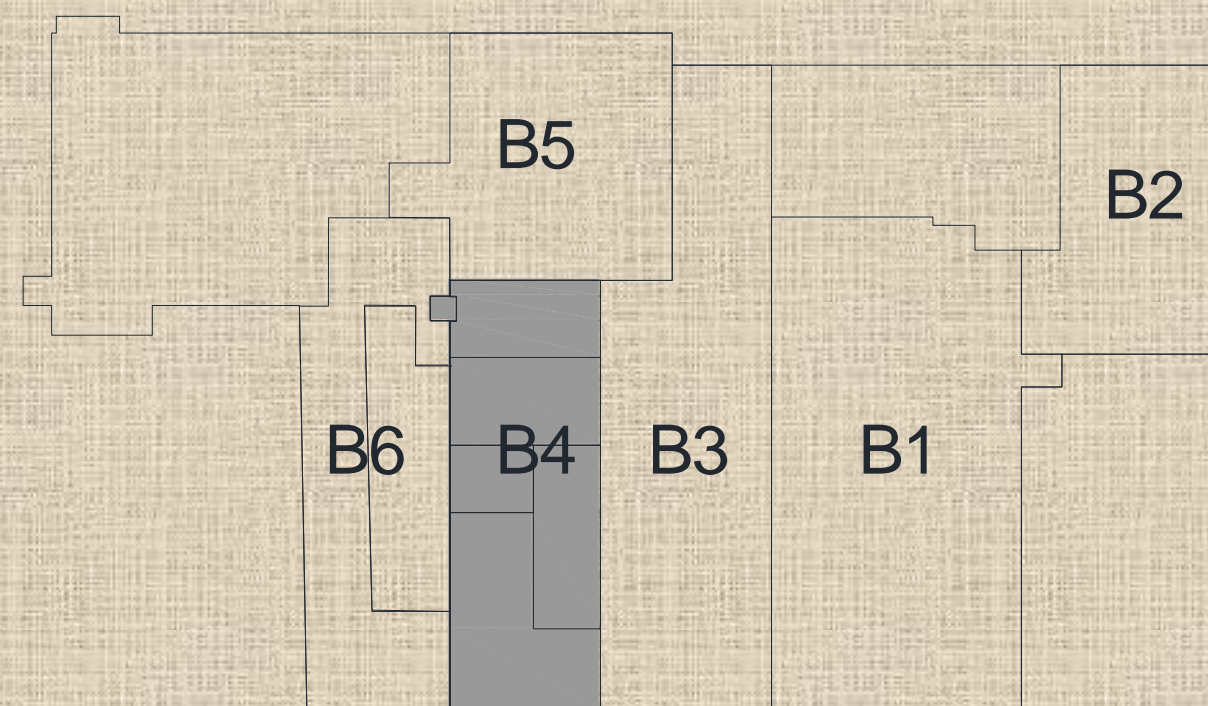
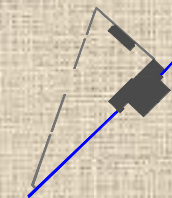
BLOQUE 3



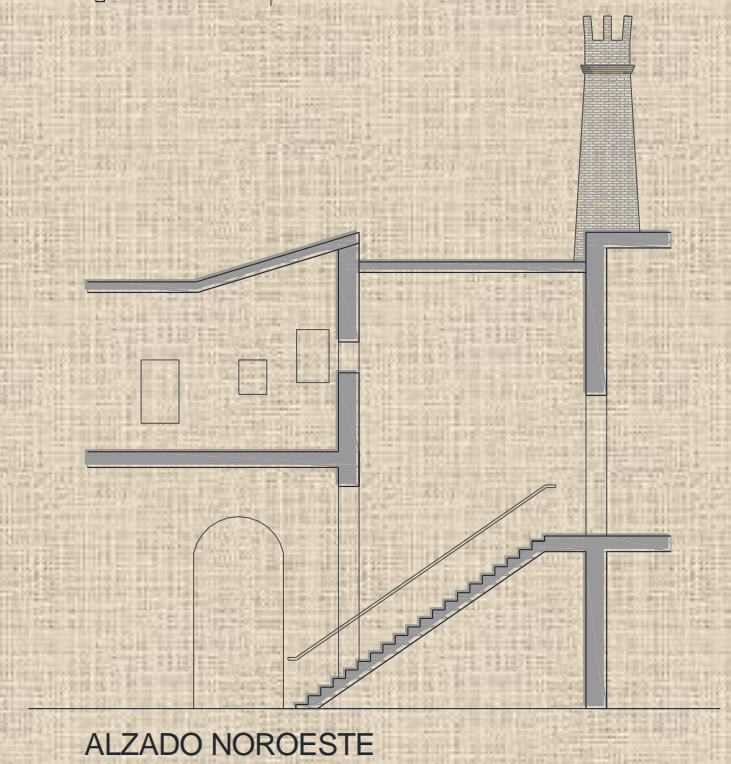
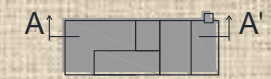
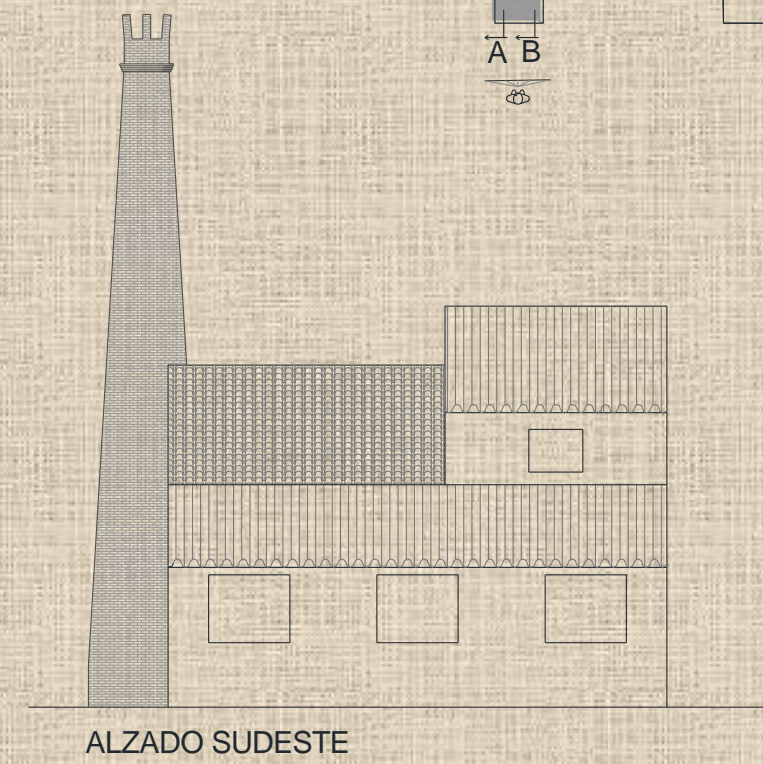
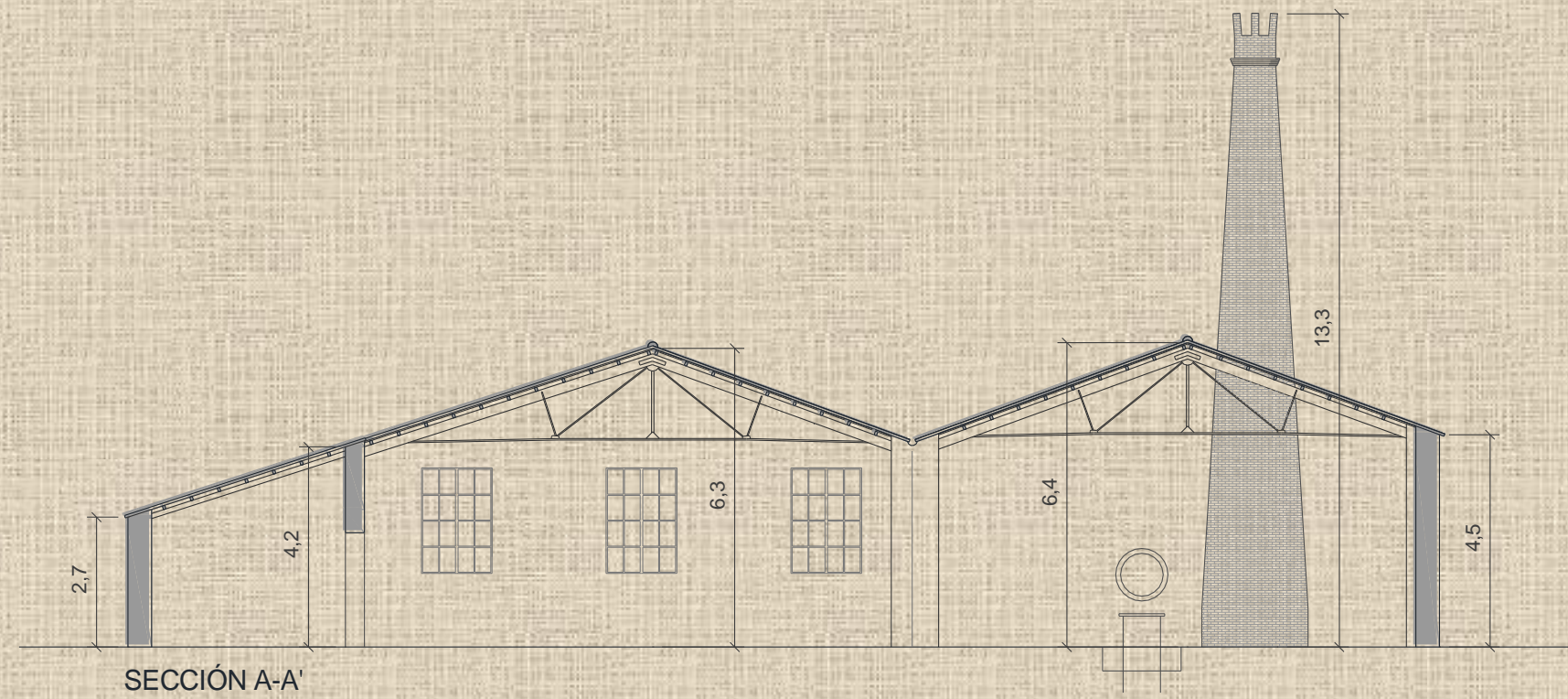
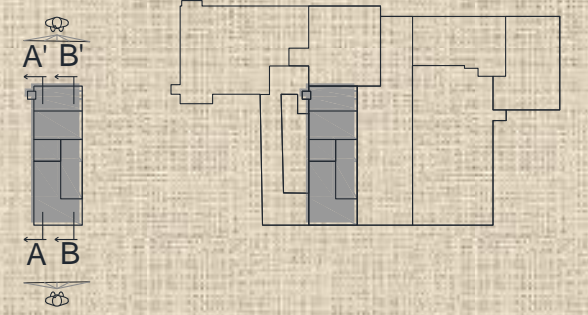
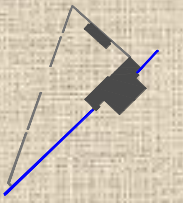
SECCIÓN A-A'



SECCIÓN B-B'

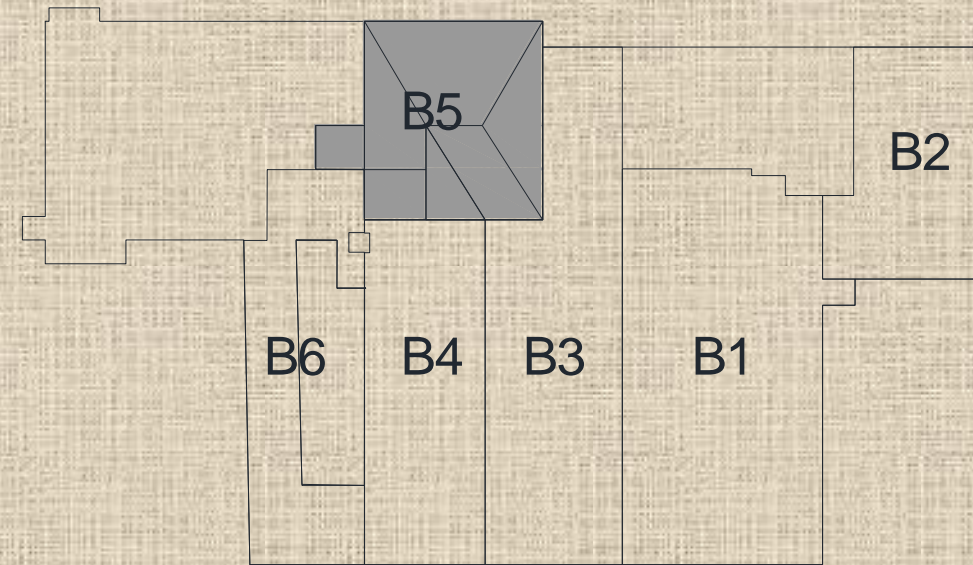


BLOQUE 4

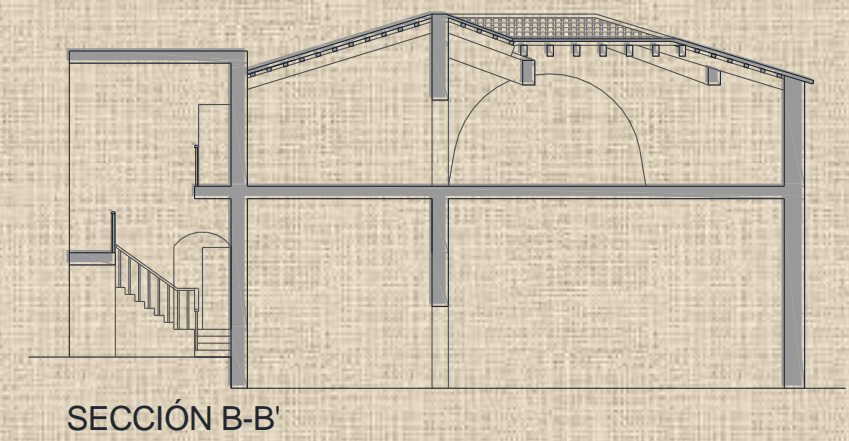
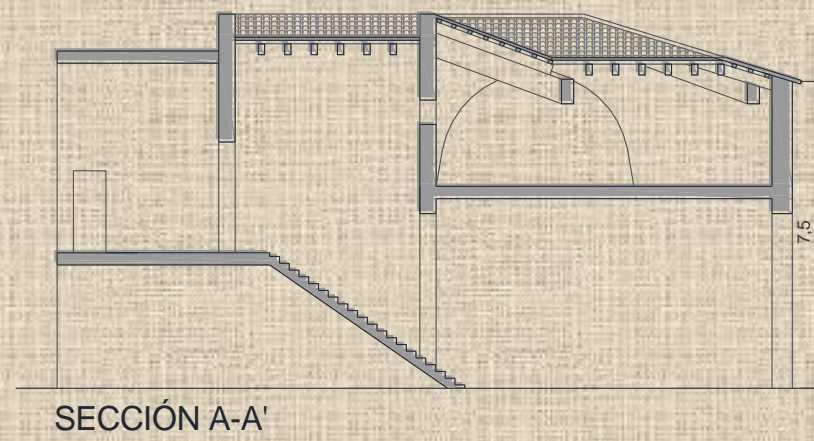
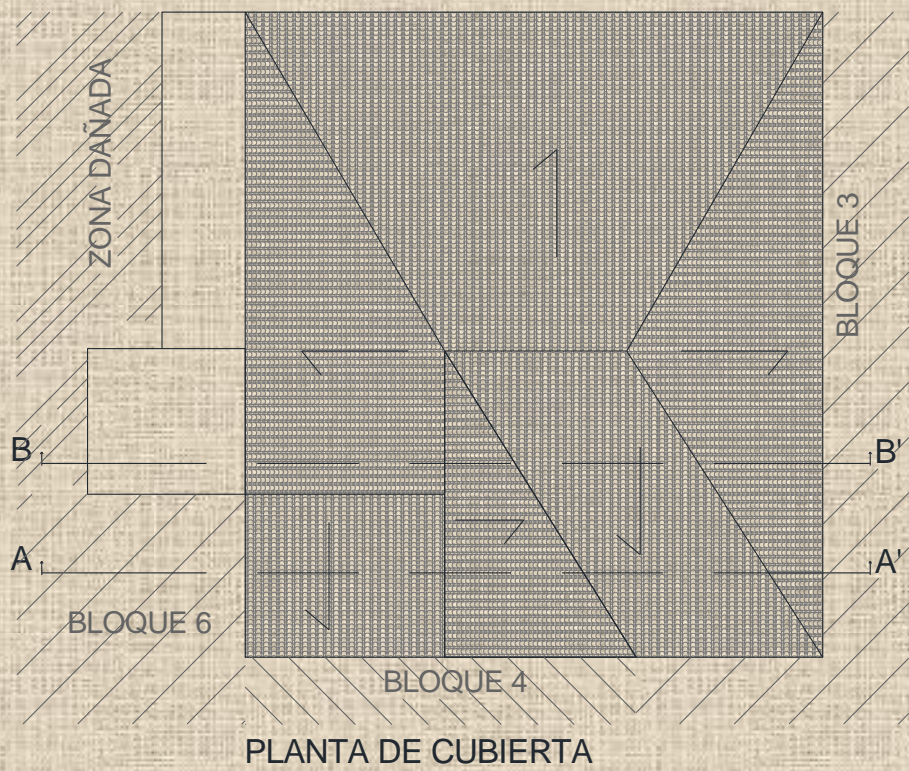
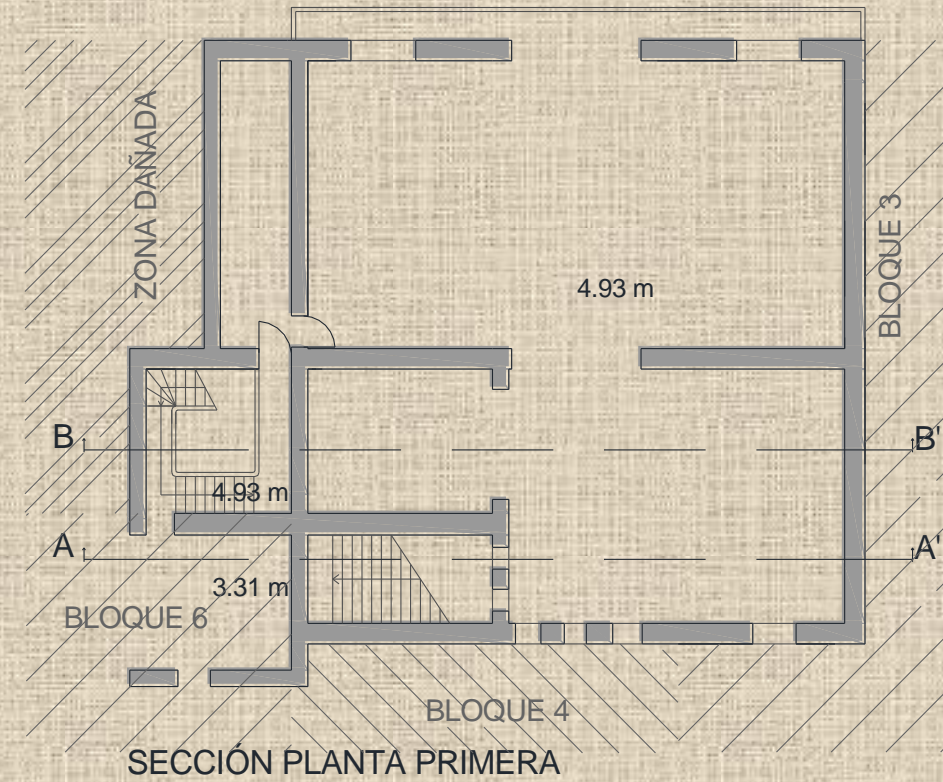
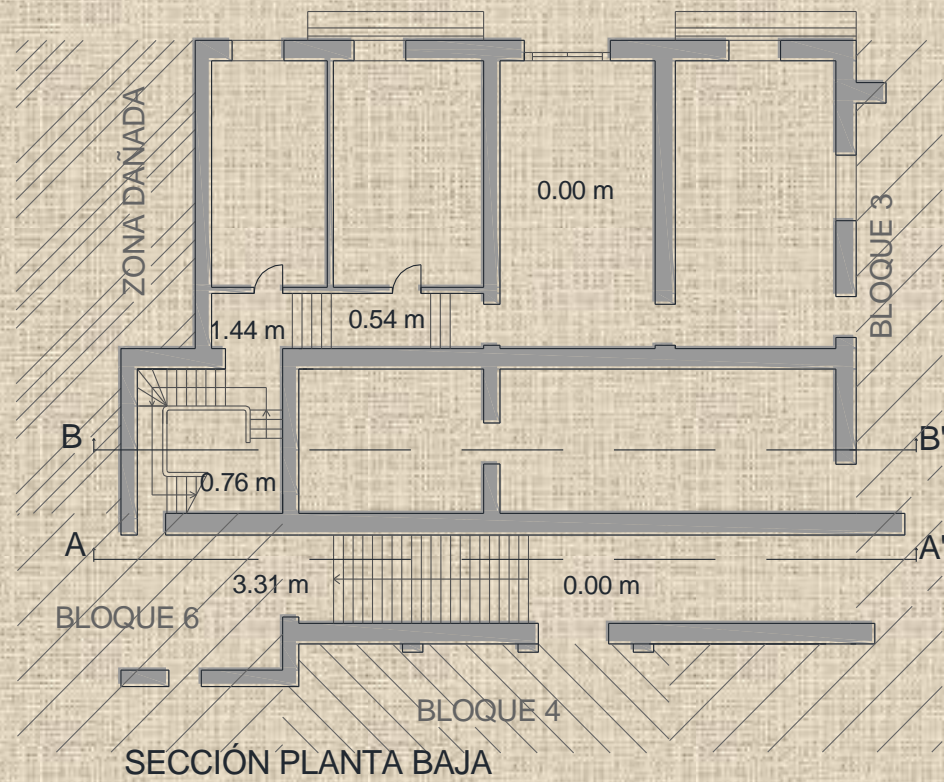
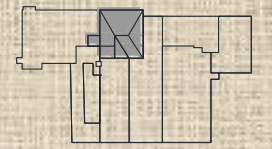
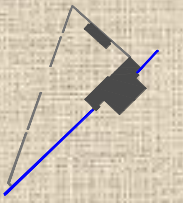


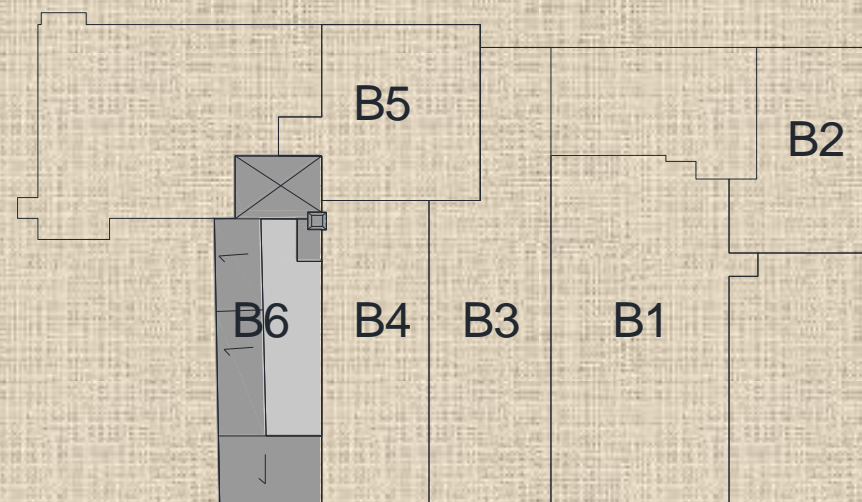
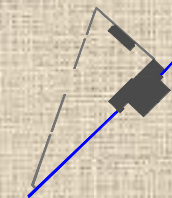
SECCIÓN B-B

ALZADO NOROESTE

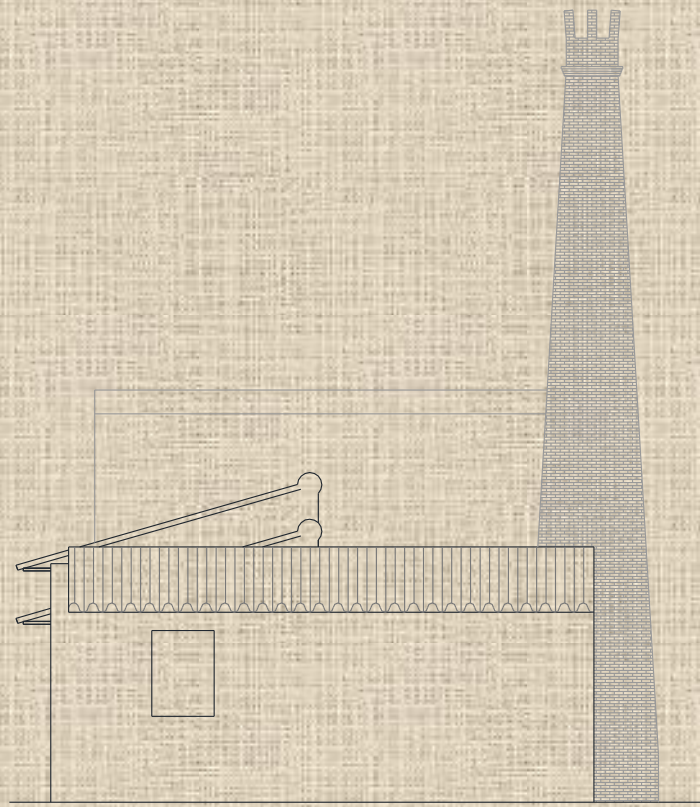
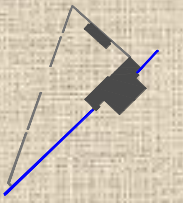


BLOQUE 5

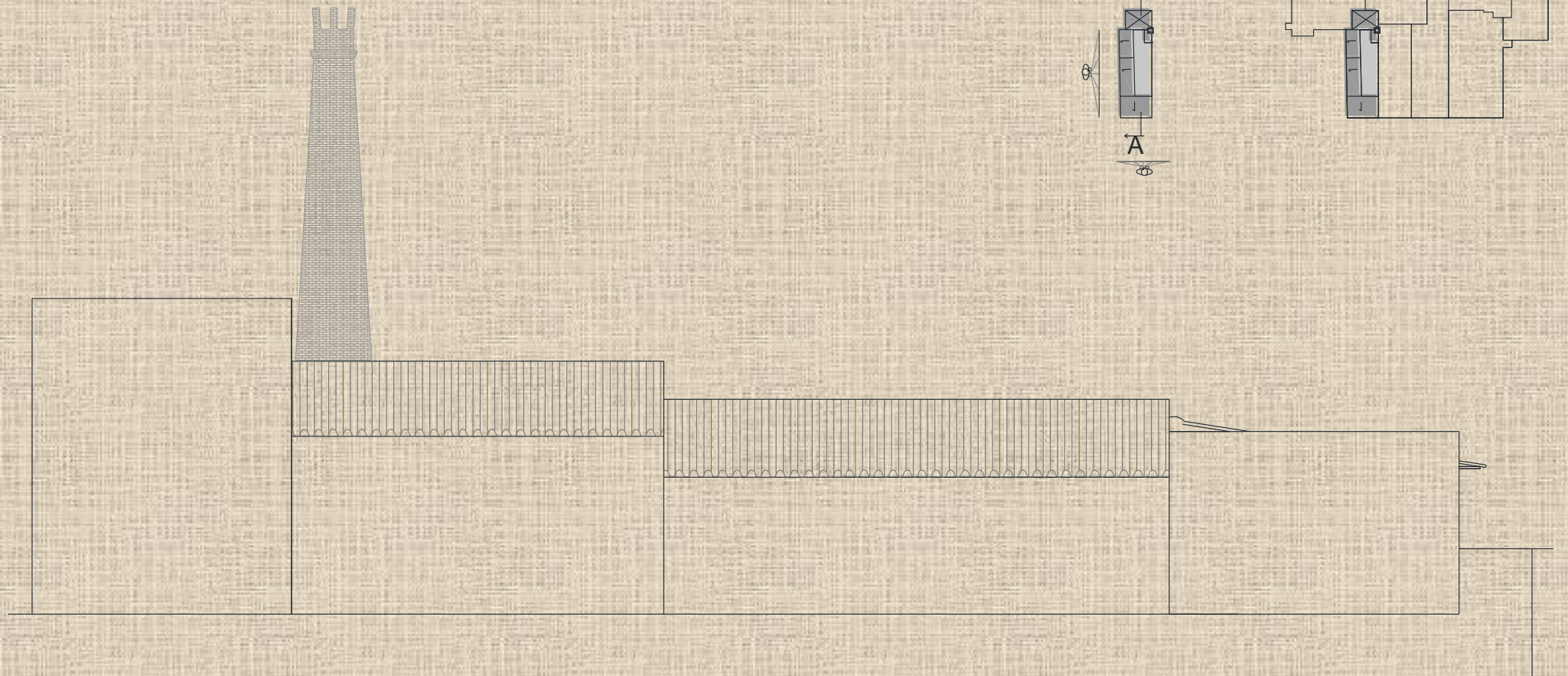
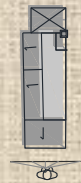




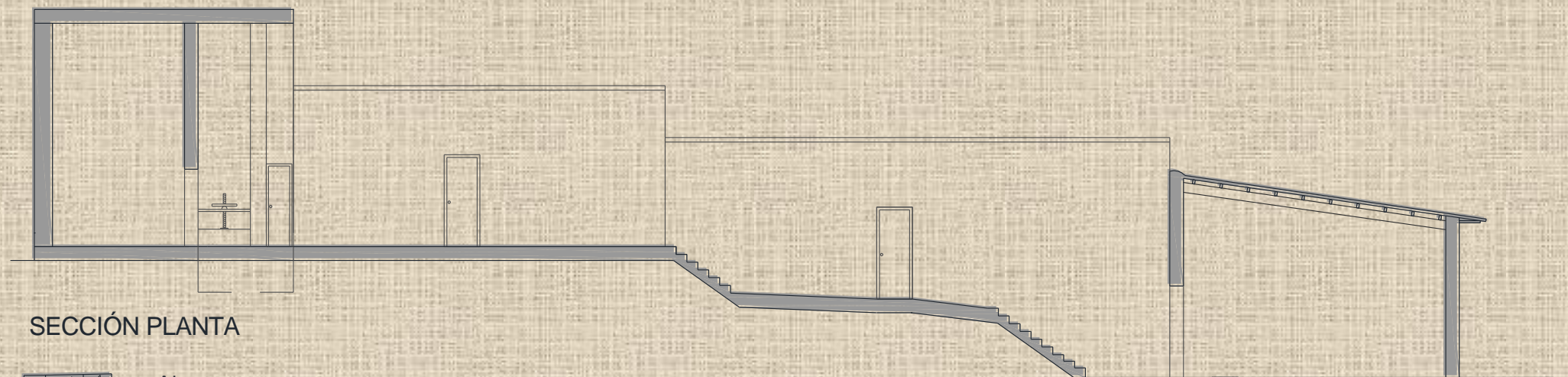
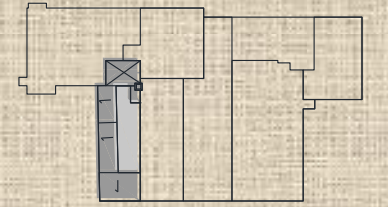
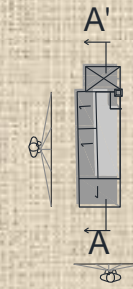
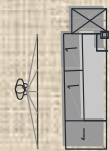
BLOQUE 6



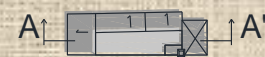
ALZADO SUDESTE



ALZADO SUDOESTE



SECCIÓN PLANTA





ANÁLISIS ARQUITECTÓNICO | MARCO



MOLÍ VELL DE BENIFAIO



MOLÍ DE ROMANÍ DE SOLLANA



MOLÍ DE CARSI DE CASTELLÓN DE LA RIBERA



MOLÍ DEL MIG DE GUADASSUAR

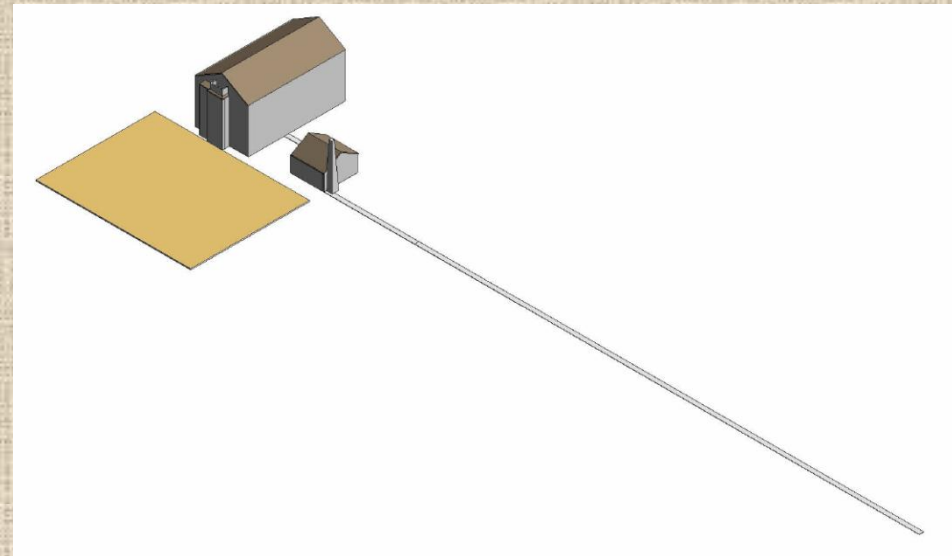


ANÁLISIS ARQUITECTÓNICO | *ESTILO*

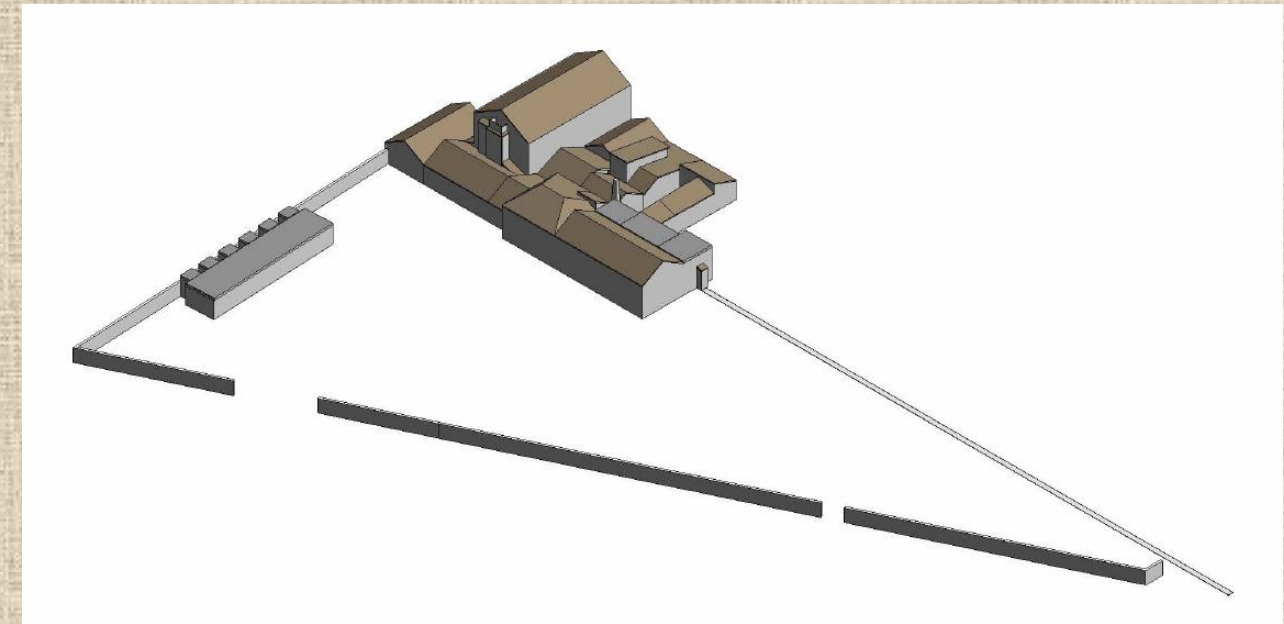
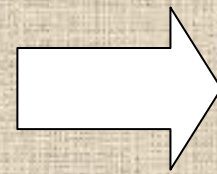




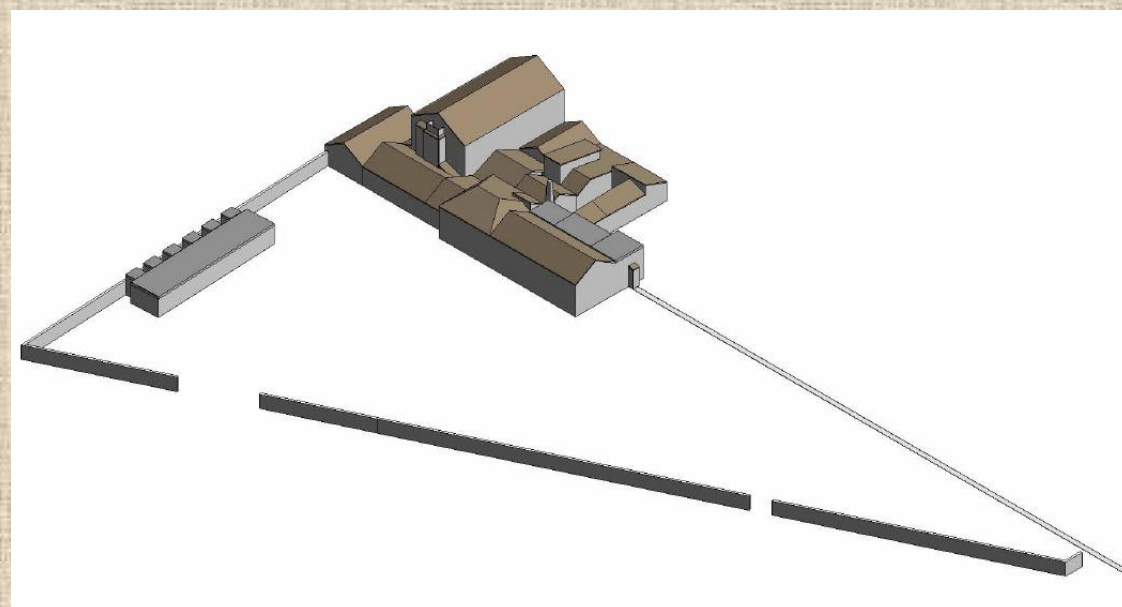
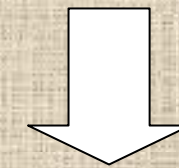
ANÁLISIS ARQUITECTÓNICO | *EVOLUCIÓN*



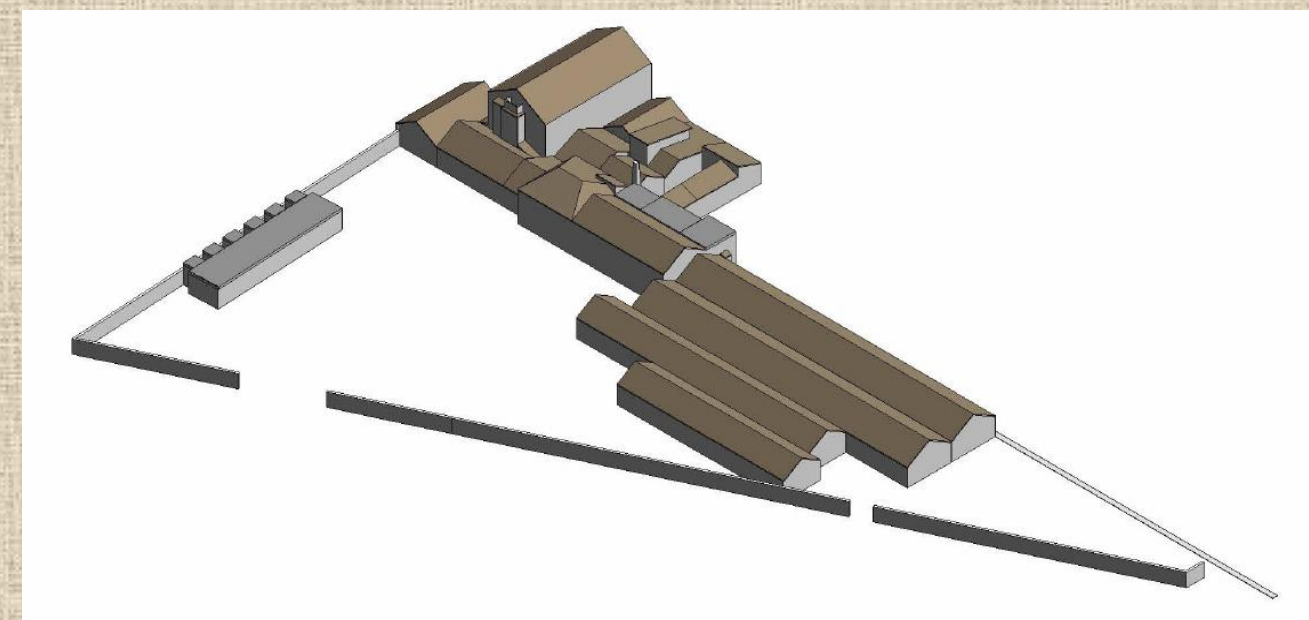
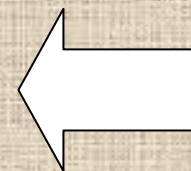
ETAPA 1790



ETAPA 1921



ETAPA 1982 – 2013

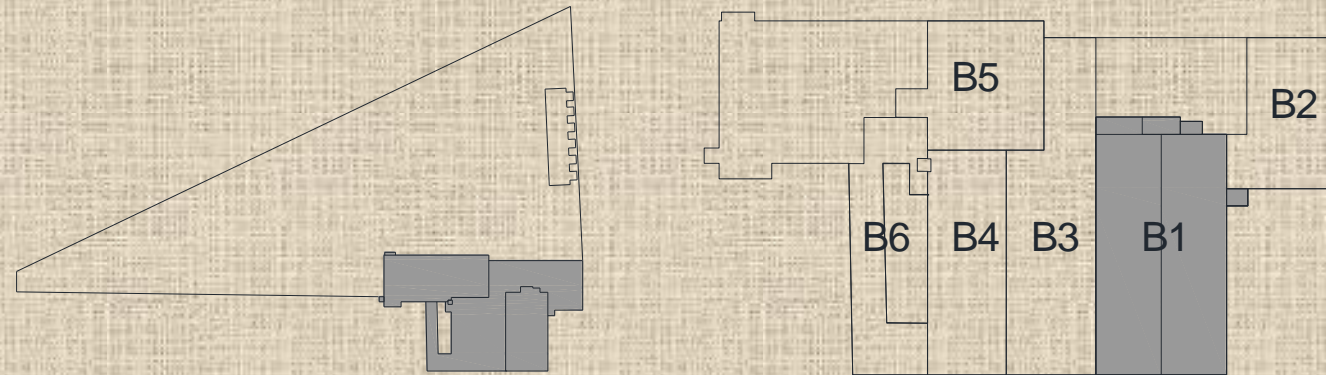


ETAPA 1942



ANÁLISIS CONSTRUCTIVO

1º ETAPA CONSTRUCTIVA – 1790 → MOLINO, EDIFICACIÓN 1, BLOQUE 1



CIMENTACIÓN ESCALONADA O PIRAMIDAL

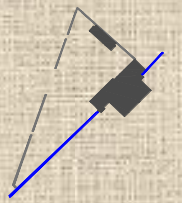


MURO CON MAMPOSTERÍA Y LADRILLOS



SOPORTES DE MADERA





FORJADO CON VIGAS DE MADERA,
VIGAS METÁLICAS Y TABLERO DE MADERA

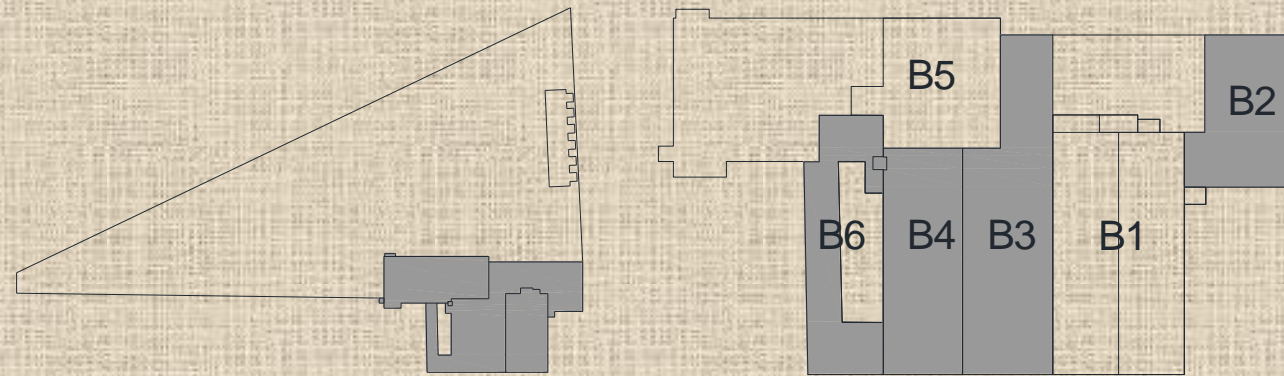


CUBIERTA CON CERCHA, CORREAS,
DOBLE ENLISTONADO Y FIBROCEMENTO





2º ETAPA CONSTRUCTIVA – 1921 → NAVES ADYACENTES, EDIFICACIÓN 2, BLOQUE 2, 3, 4 Y 6.



CIMENTACIÓN RECTA



MUROS CON MAMPOSTERÍA

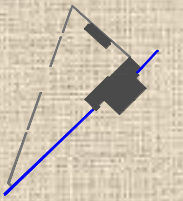


SOPORTES DE LADRILLO

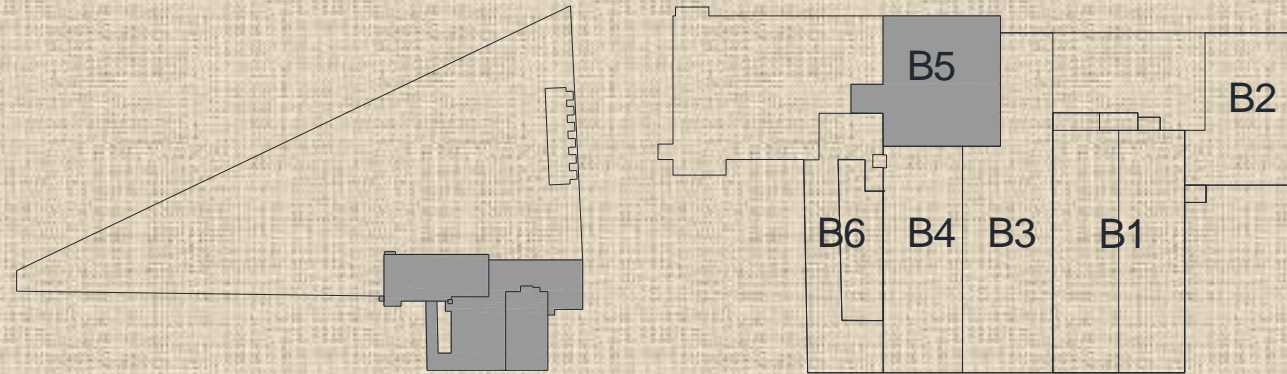


CUBIERTA CON CERCHA, CORREAS,
ENLISTONADO Y ELEMENTO DE CUBRICIÓN

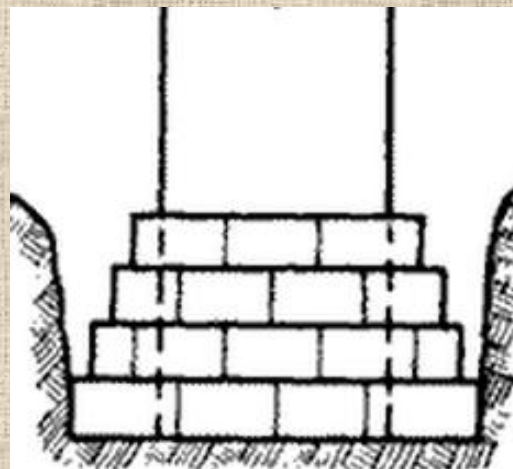




2º ETAPA CONSTRUCTIVA – 1921 → VIVIENDA DEL PROPIETARIO, EDIFICACIÓN 2, BLOQUE 5.



CIMENTACIÓN RECTA



MUROS DE MAMPOSTERÍA



FORJADO CON VIGAS DE MADERA Y REVOLTONES DE LADRILLO

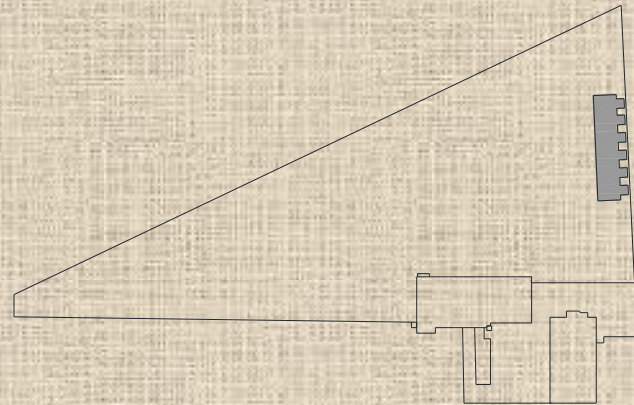


CUBIERTA CON VIGAS, CORREAS, ENLISTONADO, TABLERO Y TEJA CURVA

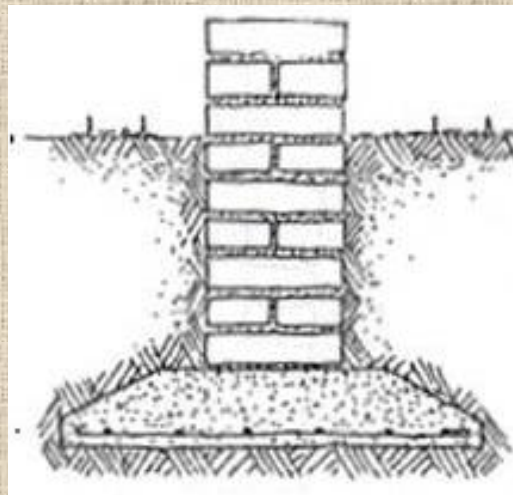




2º ETAPA CONSTRUCTIVA – 1921 → VIVIENDA PARA TRABAJADORES, EDIFICACIÓN 1.



CIMENTACIÓN RECTA



MUROS DE BLOQUE DE HORMIGÓN



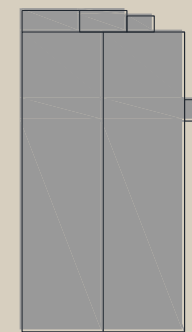
FROJADO/CUBIERTA DE VIGUETAS Y BOVEDILLAS















ANÁLISIS PATOLÓGICO | MAPEADO DE LESIONES

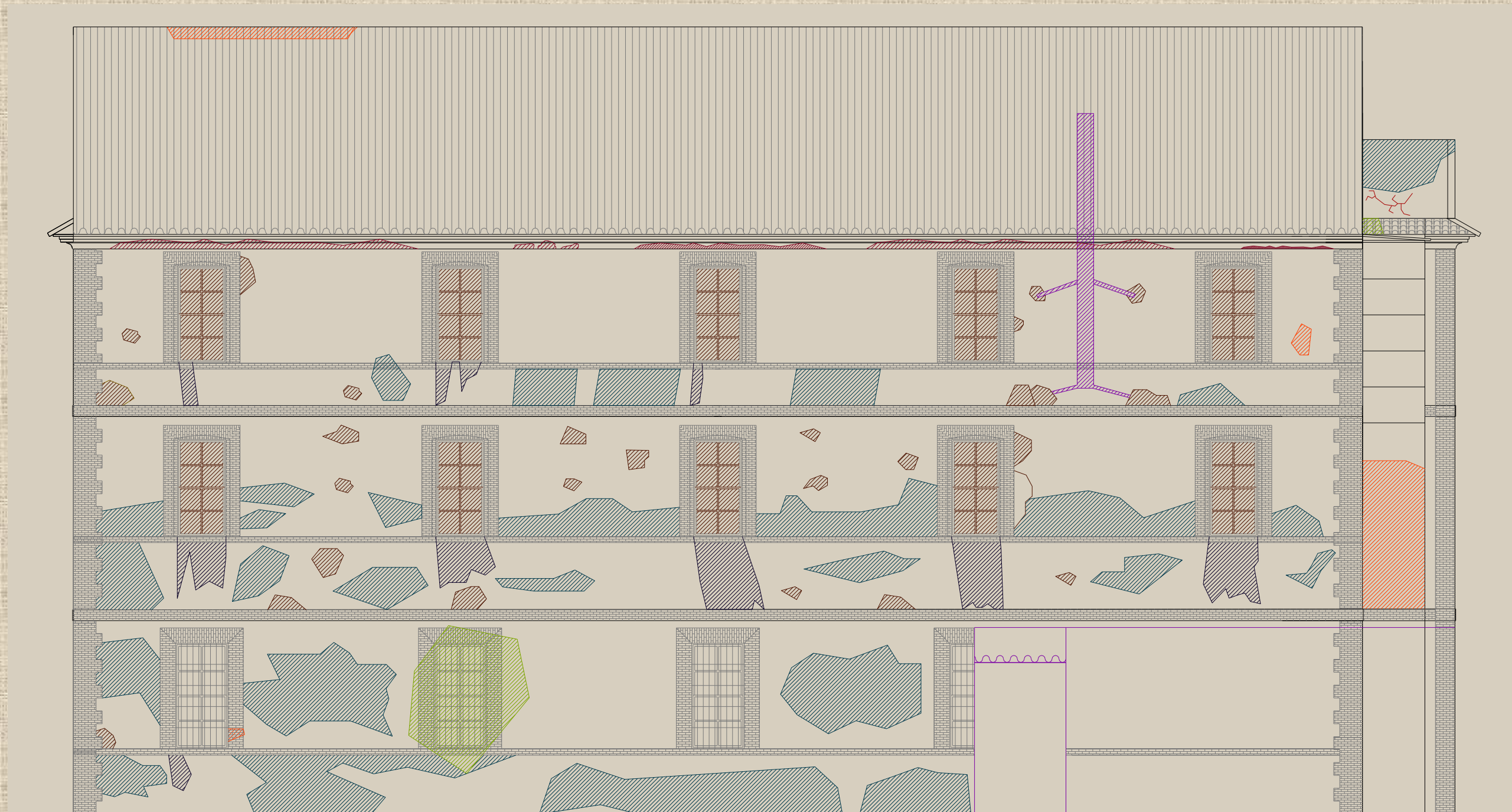
ALZADO NOROESTE



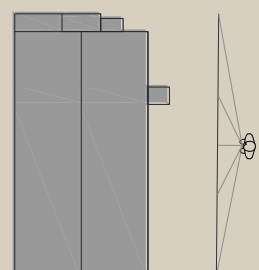
INDUSTRIAS
PLACIDO NAVARRO
HILADOS - TEJIDOS











- | | |
|--|---|
|  Grietas o fisuras |  Manchas |
|  Intervenciones impropias |  Ennegrecimiento |
|  Humedades |  Enmugrecimiento |
|  Exfoliación |  Lavado |
|  Desconchado |  Graffitis |
|  Pérdida de material |  Vaciado de juntas |
|  Suciedad |  Elemento impropio |

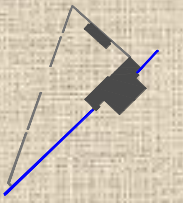




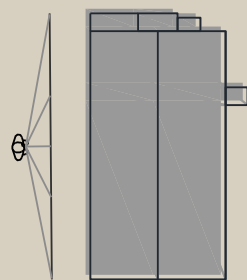
ALZADO NORDESTE




 Grietas o fisuras	 Elemento impropio	 Exfoliación	 Pérdida de material
 Vegetación	 Suciedad	 Desconchado	 Lavado
 Intervenciones impropias	 Ennegrecimiento		




ALZADO SUDOESTE




 Intervenciones impropias


 Vegetación


 Desconchado

 Vaciado de juntas


 Humedades

 Lavado

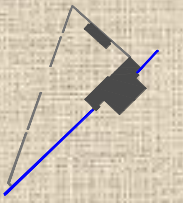
 Pérdida de material

 Elemento impropio

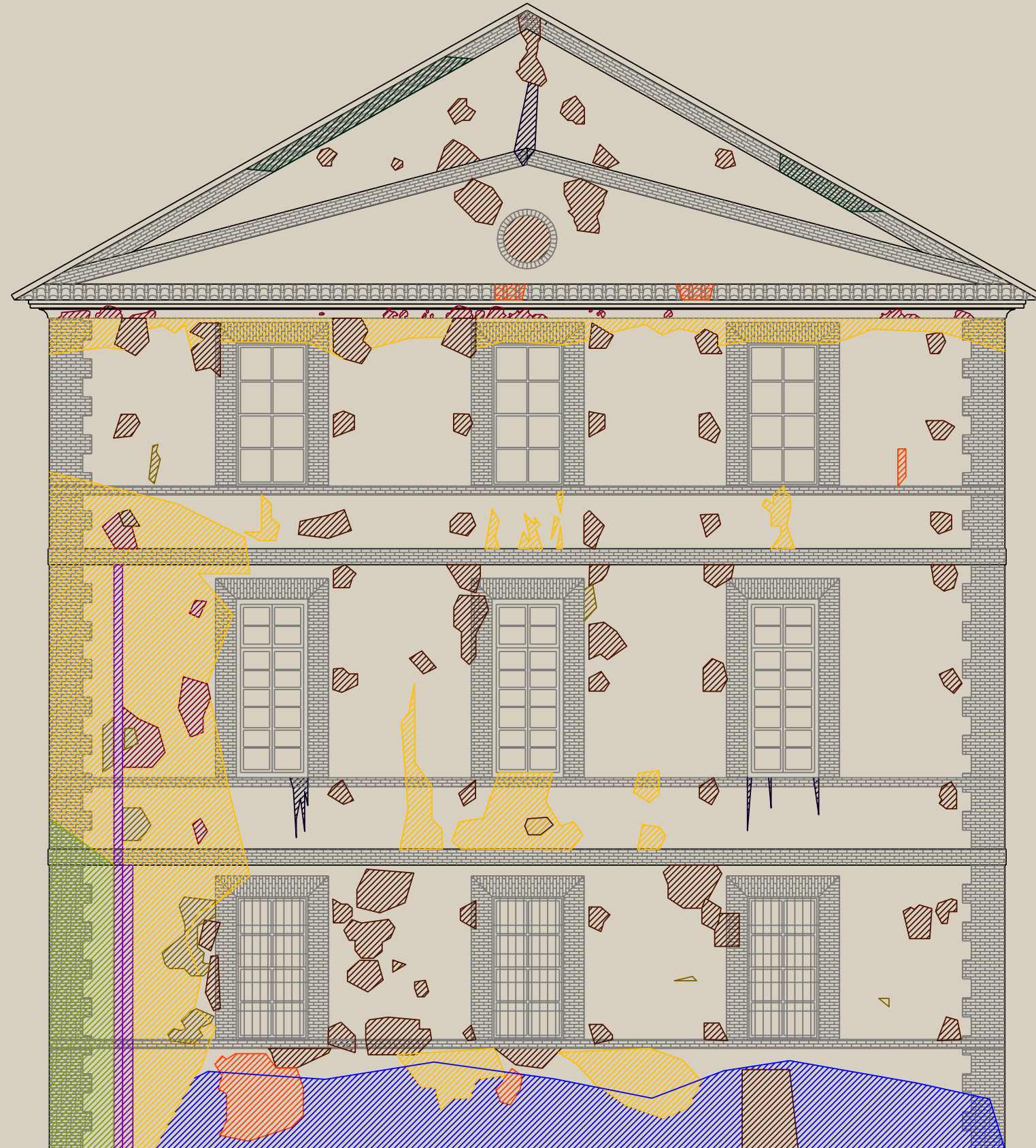
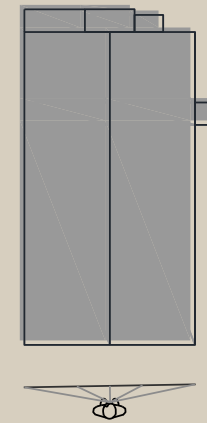
 Exfoliación

 Suciedad

 Eflorescencias



ALZADO SUDESTE

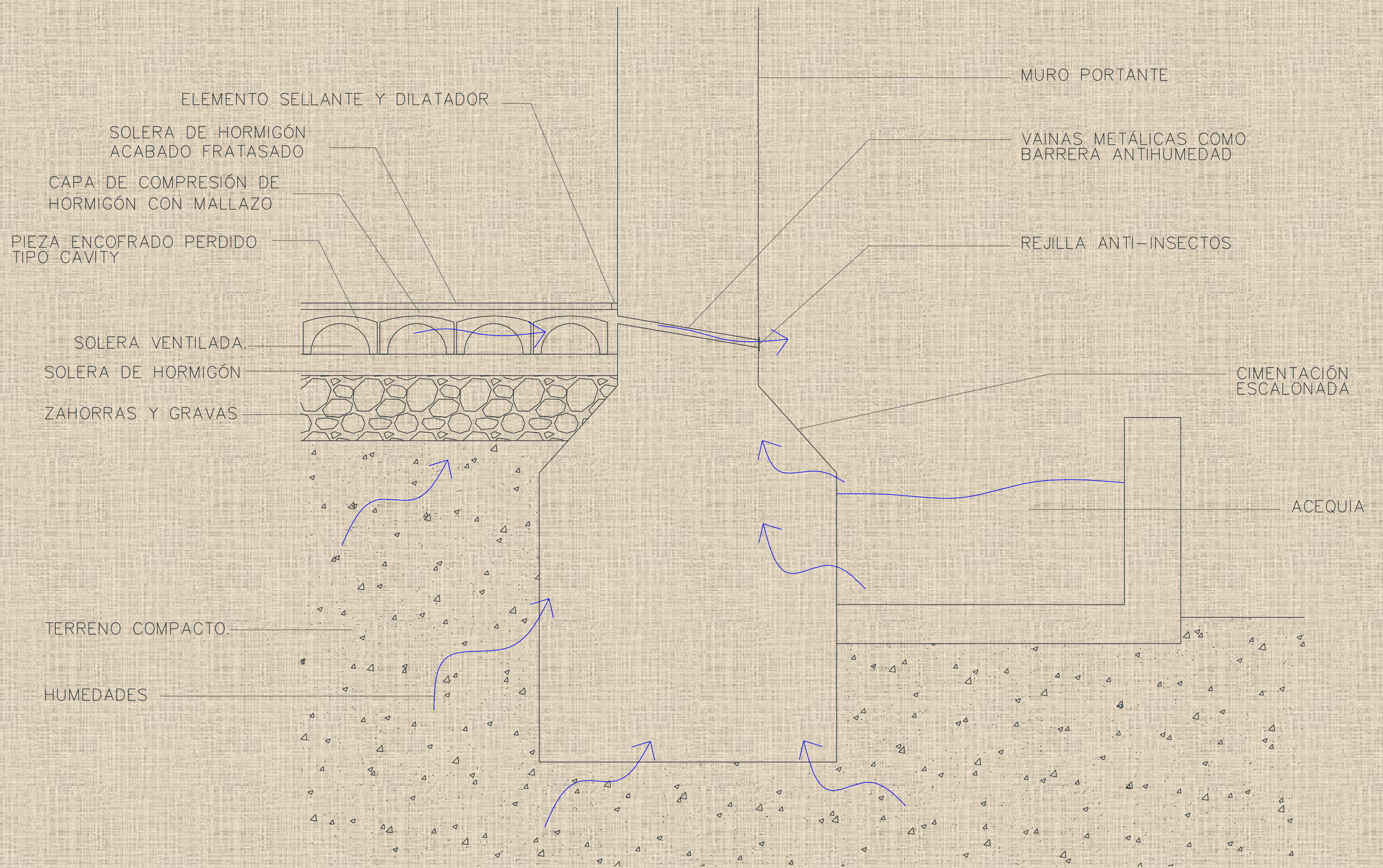


- | | | | |
|---|--------------------------|---|-------------------|
|  | Vegetación |  | Suciedad |
|  | Intervenciones impropias |  | Lavado |
|  | Humedades |  | Eflorescencias |
|  | Exfoliación |  | Vaciado de juntas |
|  | Desconchado |  | Elemento impropio |
|  | Pérdida de material | | |



PROPUESTA DE INTERVENCIÓN | *HUMEDAD POR CAPILARIDAD*



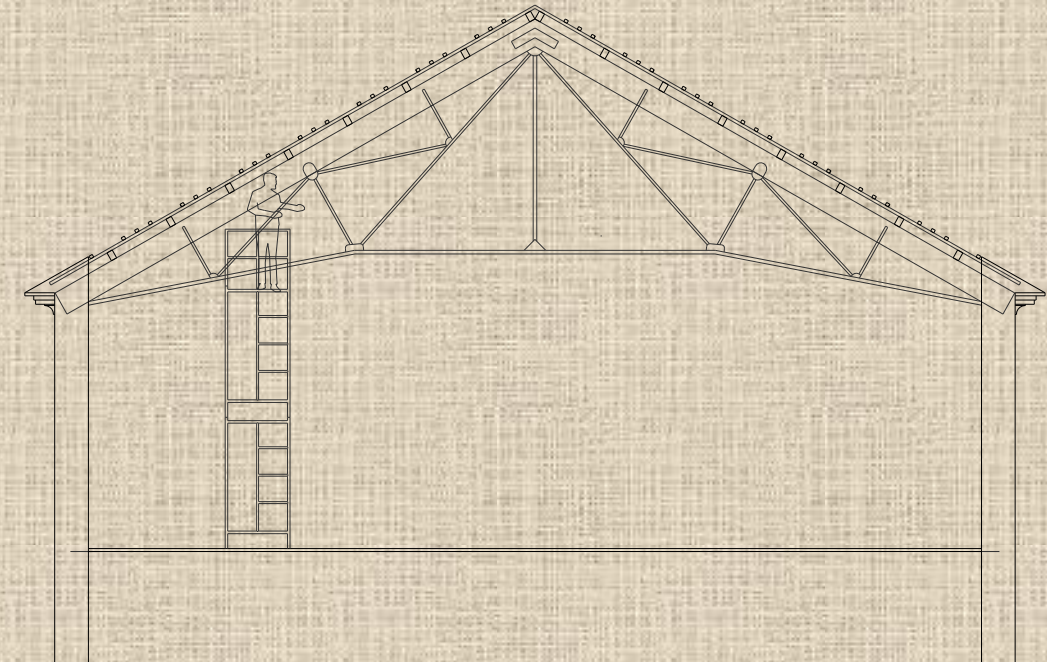
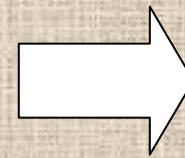




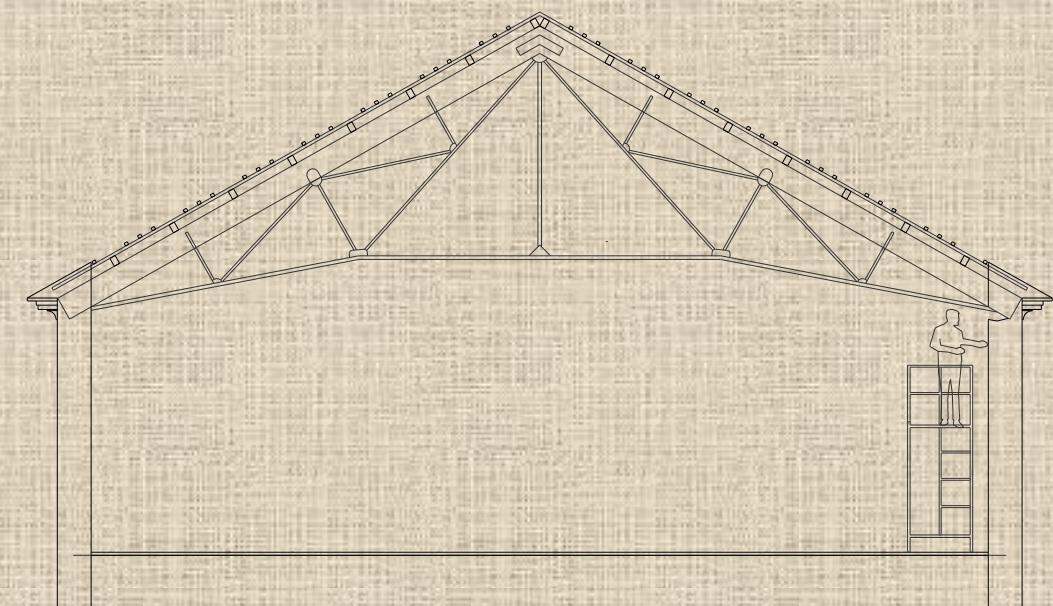
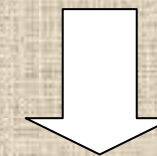
PROPUESTA DE INTERVENCIÓN | *HUMEDAD POR FILTRACIÓN*



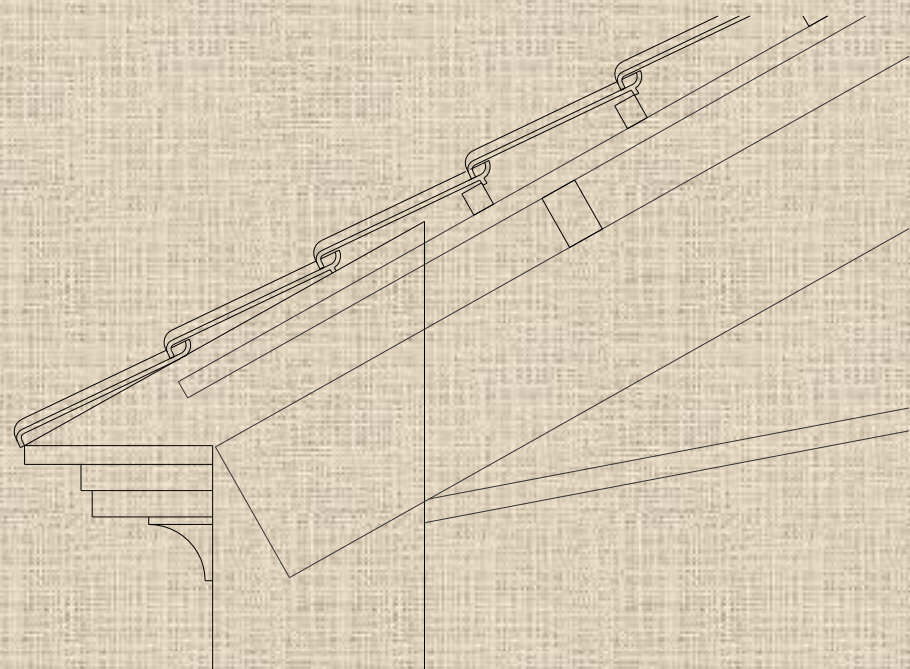
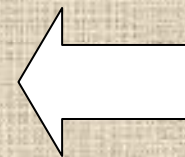
RETIRADA DEL APLACADO DE FIBROCEMENTO



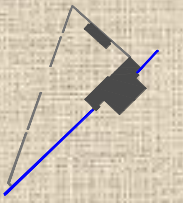
COMPROBACIÓN DE RESISTENCIA



COMPROBACIÓN DE ENCUENTROS



COLOCACIÓN DE TEJA ORIGINAL PLANA



CONCLUSIONES