BUILDING PRACTICE IN ABOLAFIO CONSTRUCCIONES. S.L.
Housing development of 10 homes, 19 parking spaces and 10 storage rooms.
Located in Masnou.
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11. BIBLIOGRAFÍA
1. INTRODUCTION

With this final degree project, I pretend to put in practice much of the knowledge that I have acquired in the degree period. The project that I am going to present is about practice method, specifically, it is a construction works follow-up. It is about 10 housing building, 19 parking spaces and 10 storage rooms, located in Masnou. Our role in this promotion is as builder.

Location: Cadastral Reference 4137101DF4943N0001FG

I am going to analyze and study this project in order to find all the errors and possible inconsistencies that may result in setbacks or issues during the construction. I also monitoring both the execution and the safety. I will document all the modifications done in the works.

I think that this kind of project is very interesting as my final academic process, because allow you to get into working world more relaxed, with less pressure and responsibilities because it is a trainee relationship.

The aim of this project is finalize my degree and get start at world level in construction.
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1.1 WORKS DONE.

In this case, my role inside this project has been as a production boss. The function of the production boss is helping to construction manager, although it is more than that, is about to be agree for both parts to organize all daily tasks in a working place. This is the tasks that I have been performed in this work:

Contract work:
- Execution Control.
- Proposed solutions questions of work.
- Support the work of the team work (managers).
- Daily monitoring of established planning.
- Contact managers subcontractors.
- Organizing and monitoring the daily work.
- Control safety and health work.
- Request of material according to needs of the work.

Office work:
- Contact businesses to hire.
- Comparative study between companies to hire.
- Holding meetings with industrialists hired labor.
- Monthly closures of industrial (proforma invoice).
- Monthly closures certification / production of the work (certifications).

In addition, I also made the weekly schedule with construction manager and in charge of the needed tasks.

I think within a job it is necessary to learn all works that to be done gradually and judiciously, so, it is necessary to be in a first place head of production and later chief of work.
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2. SPECIFICATION REPORT

2.1 ANALYSIS AND STUDY.

In this chapter, I am going to detail all the errors and contradictions that I have found in the specification report.

- The descriptive report indicates a width on the plot of 12.90 m when in the work planes the width is 12.85 m. This error was reported to the project management, as per their knowledge, because we lost land surface and interior distributions.

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La referencia catastral de la parcela es 4137101DF4943N0001FG y su calificación urbanística es de Zona Eixample 12c – Subzona de Illes amb pati interior tipus 2.

La parcela, ubicada en el extremo de una manzana cerrada y con fachada a tres calles, presenta una geometría perfectamente rectangular con unos lados de 12.90m de ancho y 28.25m de largo, orientados de manera perpendicular a la playa, en sentido norte-sur. La superficie total de la parcela es de 365.84m².

Los límites de la parcela son los siguientes:

**LÍMITE NORTE**: la parcela limita en línea recta de 12.90m con la calle Puerto Rico. Esta calle presenta una sección total de 8.00m de ancho, formada por: una acera pavimentada de 1.20m de anchura en el lado sur; una calzada asfaltada de 5.60m dividida en una zona de aparcamiento en el lado sur de 2.20m y un carril de circulación de sentido único oeste-este de 3.40m; y finalmente una acera también de 1.20m en el lado norte. Dicha calle no tiene presencia de arbolado y las edificaciones presentes son edificaciones residenciales de PB+1 a PB+3, con características parecidas a la que se plantea en este proyecto.

**LÍMITE SUR**: la parcela limita en línea recta de 12.90m con la calle Ángel Guimerá. Esta calle (carretera N-I) presenta una amplia sección de 18.82m formada por: una amplia acera de 3.60m en el lado norte, en contacto con la parcela; y una calzada asfaltada
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The paragraph of Descriptive memory refers that there are 7 parking spaces on the ground floor, meanwhile, on the planes we have 6 parking spaces on the ground floor.

On the plane of the page above you can see that on the ground floor we have 6 parking spaces.

In the same section, specification describes us housing C facade overlooking C / Puerto Rico with C / Brasil and housing construction plans and giving these facades is the A.
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In section herein in land of supporting. According to the geotechnical, there is uncontaminated soil, but, on the moment to carry out the excavation, we find oil from the car repair shop adjacent to the plot. I will explain in more detail in monitoring implementation section.

Below a picture of the excavation showing us the contaminated soil.
In the same section herein in façade and exterior woodwork. According memory indicates a double-glazing 8/12/6, but after consultation with the Project management performing double-glazing 6/12/6 lower, complying with the conditioning, both thermal and acoustic.

In the same section of mediatrix herein in perforated ceramic brick it indicates, without detailing the type, if they are tochana or Gero. In the plans we mark all mediatrix goes with tochana. However, on the ground floor, in the parking we have to place Gero, to comply with the Fire Resistance.
In the same section herein in finishings. According to the Memory, kitchens has stoneware and bathrooms with stoneware tiles. Nevertheless, in budget measurements, both kitchens and bathrooms have stoneware tiles finishing.

Pavimentos:
- Vivienda (habitaciones y salón): pavimento laminado estratificado.
- Vivienda (cocina): gres
- Vivienda (baños): porcelánico
- Vivienda (terraza): gres para exteriores
- Cubierta: baldosas antideslizantes para exteriores
- Portales y escalera comunitaria: porcelánico
- Trasteros, garaje y rampa garaje: hormigón tratado
- Cuarto de instalaciones, zonas comunes planta sótano; terraza

Paramentos verticales:
- Interior viviendas (excepto baños y cocina): placas de yeso laminado
- Interior viviendas (baños): porcelánico
- Interior viviendas (cocina): gres
- Vestíbulo de entrada: porcelánico
**Presupuesto**

<table>
<thead>
<tr>
<th>Código Nat</th>
<th>Código</th>
<th>Partida</th>
<th>Resumen</th>
<th>ALTO</th>
<th>ANCHO</th>
<th>LARGO</th>
<th>TOTAL</th>
<th>CanPres</th>
<th>PrPres</th>
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<tbody>
<tr>
<td>08.101</td>
<td>08.101</td>
<td>Partida</td>
<td>m²</td>
<td>41,60</td>
<td>38,16</td>
<td></td>
<td>1.587,46</td>
<td>41,60</td>
<td>38,16</td>
<td>1.587,46</td>
</tr>
</tbody>
</table>

Alicatado con gres porcelánico acabado pulido 40x30 cm, de la marca Porcelanosa, colocado sobre una superficie soporte de placas de yeso laminado, en paramentos interiores, recibido con adhesivo cementoso de fraguado normal, C1 gris, sin junta (separación entre 1,5 y 3mm), incluido pp de cantoneras si fuera necesario. PVP: 25,00 €/m2

| 08.102     | 08.102 | Partida | m²      | 273,13 | 36,16 |       | 9.876,38 | 273,13  | 36,16  | 9.876,38 |
| 08.102     | 08.102 | Partida | m²      | 346,47 | 36,16 |       | 12.528,36 | 346,47  | 36,16  | 12.528,36 |

Alicatado gres porcelánico cocina

Alicatado gres porcelánico baño 1
In the same section herein in facility general criteria of the building. Memory refers to a shaft ladder in order to access to the core communication cover, for maintenance. However, this ladder is not mentioned in the planes or in the reference measurements.

En la cubierta del edificio y en la cubierta del núcleo de comunicación, se situarán los captadores solares, la antena terrestre y las chimeneas. La cubierta del núcleo de comunicación será accesible únicamente para el mantenimiento de estas instalaciones a través de una escalera de gato colocada en la fachada.

Para permitir la evacuación por gravedad y aprovechando la facilidad de inspección y mantenimiento, en el techo de la planta sótano se colocarán las redes horizontales de evacuación de aguas del edificio, los conductos de ventilación del aparcamiento, así como las instalaciones eléctricas y de detección de la planta aparcamiento.
In the same section herein in elevator. In the Memory indicates a lift with 6 stops but, in the description of measurements of the budget only indicates 5 stops.

In the Descriptive Memory section in load forecast for low voltage. It indicates that there must be a reservation for two seats of electric vehicles. It indicates that the supply will be direct from the public network with low voltage power, without the need to have a transformer station. But we had to make a transforming station in the work, without being reflected in the project. The ground floor plans were modified, I will attach them in the section on plan modifications and a contradictory budget was also made.
In paragraph Constructiva foundations Memory. Memory indicates the armed base slab foundation with Ø 20 in top and bottom and every 30 cm. Instead, in the drawings we have in the upper and lower Ø12 each 15 cm. There is also difference in the concrete of the foundation slab. In the indicated HA30 / B / 20 / IIIa specification and drawings is HA30 / B / 20 / IIIb + Qb.
In the reinforced base slab of the basement ceiling in the upper and lower memory we Indian Ø 16 and 20 each upper planes indicates Ø10 each Ø12 20 and bottom 20 each.

**ESTRUCTURA HORIZONTAL**

El techo de la planta sótano presenta una composición mediante losa maciza de hormigón armado, jácenas de canto que descuelgan entre 15 y 55cm, crucetas de punzonamiento y vigas inferiores y vigas de borde. La armadura base superior será de 1/016 c/20 y la base inferior será de 1/016 c/20.

El techo de las plantas tipo será un forjado reticular con bloques perdidos de hormigón. Los forjados dispondrán de armaduras superiores e inferiores en los nervios, armaduras superiores e inferiores en los abacós, crucetas de punzonamiento y armaduras de vigas inferiores y vigas de borde. El canto del forjado será de 25 cm a excepción de las zonas de terraza donde será una losa maciza con un canto de 20 cm.