



BIM Immersion Cube

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The construction industry has become one of the largest professions to struggle with effectively implementing technology. As the industry heads into the future, more and more technology will be needed to increase efficiency and reduce cost. Cal Poly, one of the leading universities for industry recruitment, needs to teach the new generation of builders to be able to implement BIM/VDC into the industry. In this project called the BIM Cube, the overall goal is to give Cal Poly students a better understanding of model coordination and clash detection. This paper outlines the preconstruction services required for the eventual construction of the BIM Cube. These services entail three major components; a virtual 3D model, a construction schedule, and a cost estimate. This paper outlines the steps taken to acquire this project, how the scope was completed, and the lessons learned from this experience.

Key Words: BIM, AEC, Clash Detection, Model Collaboration

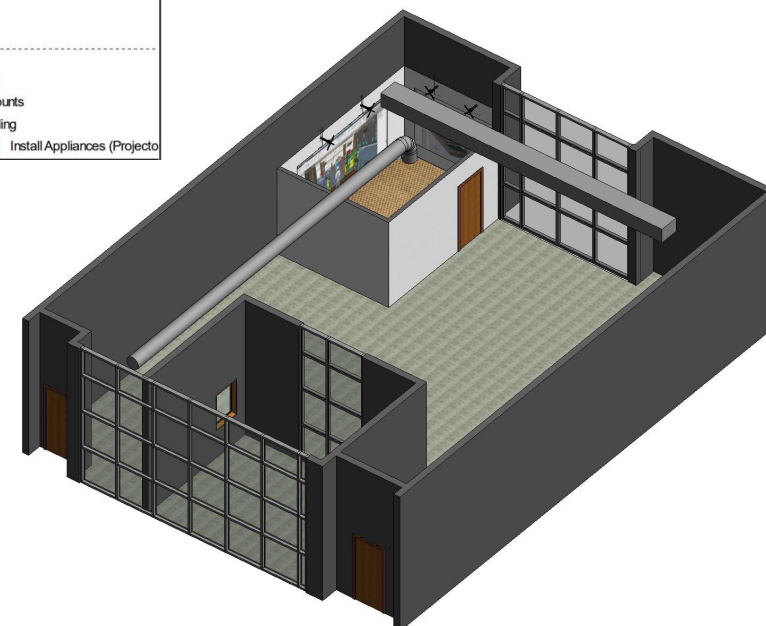
PRODUCT EXPENSE TOTAL	\$ 9,161.57
LABOR EXPENSE TOTAL	\$ 16,480.00
COMBINED TOTAL COST: \$ 25,641.57	

#	Activity ID	Activity Name	Original Duration	Start	Finish	June 2020	July 2020
1	BC BIM Cube		27	15-Jun-20	21-Jul-20		
2	BC.1 Construction		27	15-Jun-20	21-Jul-20		
3	BC1000	Drill & Install Anchor Bolts	2	15-Jun-20	16-Jun-20		
4	BC1010	Layout Framing	2	17-Jun-20	18-Jun-20		
5	BC1020	Erect Wall Framing	1	19-Jun-20	19-Jun-20		
6	BC1030	MEPS Rough-In	2	22-Jun-20	23-Jun-20		
7	BC1040	Stack Drywall	1	24-Jun-20	24-Jun-20		
8	BC1050	Insulation	2	25-Jun-20	26-Jun-20		
9	BC1060	Hang Drywall	2	29-Jun-20	30-Jun-20		
10	BC1070	Skim Coat (1st Coat)	3	01-Jul-20	03-Jul-20		
11	BC1080	MEPS Finish Trim	3	06-Jul-20	08-Jul-20		
12	BC1090	Apply Projector Paint	3	09-Jul-20	13-Jul-20		
13	BC1100	Install Projector Mounts	1	14-Jul-20	14-Jul-20		
14	BC1110	Install Ceiling	3	15-Jul-20	17-Jul-20		
15	BC1120	Install Appliances (Projectors, TV)	2	20-Jul-20	21-Jul-20		

BIM Cube Construction Schedule



Software's Used in Project



BIM Cube Revit Model