

# **Project Summary**

**(1)**

**Bentour\_Study\_case2**  
**API**

as of Sun 3/23/14

Dates

Start:	Tue 4/1/14	Finish:	Mon 11/17/14
Baseline Start:	NA	Baseline Finish:	NA
Actual Start:	NA	Actual Finish:	NA
Start Variance:	0 days	Finish Variance:	0 days

Duration

Scheduled:	165 days	Remaining:	165 days
Baseline:	0 days	Actual:	0 days
Variance:	165 days	Percent Complete:	0%

Work

Scheduled:	10,630.72 hrs	Remaining:	10,630.72 hrs
Baseline:	0 hrs	Actual:	0 hrs
Variance:	10,630.72 hrs	Percent Complete:	0%

Costs

Scheduled:	\$57,535.74	Remaining:	\$57,535.74
Baseline:	\$0.00	Actual:	\$0.00
Variance:	\$57,535.74		

Task Status

Tasks not yet started:	34
Tasks in progress:	0
Tasks completed:	0
Total Tasks:	34

Resource Status

Work Resources:	21
Overallocated Work Resources:	0
Material Resources:	25
Total Resources:	46

# Unstarted Tasks

(3)

ID	Task Name	Duration	Start	Finish	Predecessors	Resource Names
1	Project Start	0 days	Tue 4/1/14	Tue 4/1/14		
2	Project Design	4 wks	Tue 4/1/14	Mon 4/28/14	1	Cons. Office [1]
3	Resource Name	Units	Work	Delay	Start	Finish
45	Cons. Office	1	1	0 days	Tue 4/1/14	Mon 4/28/14
3	Labor Prov.	7 days	Tue 4/29/14		2	Contractor [0.3], Site Eng. [3]
ID	Resource Name	Units	Work	Delay	Start	Finish
1	Site Eng.	30%	16.8 hrs	0 days	Tue 4/29/14	Wed 5/7/14
2	Supervisor	30%	16.8 hrs	0 days	Tue 4/29/14	Wed 5/7/14
44	Overheads	0.3	0.3	0 days	Tue 4/29/14	Wed 5/7/14
46	Contractor	0.3	0.3	0 days	Tue 4/29/14	Wed 5/7/14
4	Equip Prov.	7 days	Tue 4/29/14		2	Contractor [0.3], Site Eng. [3]
ID	Resource Name	Units	Work	Delay	Start	Finish
1	Site Eng.	30%	16.8 hrs	0 days	Tue 4/29/14	Wed 5/7/14
2	Supervisor	30%	16.8 hrs	0 days	Tue 4/29/14	Wed 5/7/14
44	Overheads	0.3	0.3	0 days	Tue 4/29/14	Wed 5/7/14
46	Contractor	0.3	0.3	0 days	Tue 4/29/14	Wed 5/7/14
5	Mat. Prov.	14 days	Tue 4/29/14		2	Contractor [0.4], Site Eng. [4]
ID	Resource Name	Units	Work	Delay	Start	Finish
1	Site Eng.	40%	44.8 hrs	0 days	Tue 4/29/14	Fri 5/16/14
2	Supervisor	40%	44.8 hrs	0 days	Tue 4/29/14	Fri 5/16/14
44	Overheads	0.3	0.3	0 days	Tue 4/29/14	Fri 5/16/14
46	Contractor	0.4	0.4	0 days	Tue 4/29/14	Fri 5/16/14
6	Survey	2 days	Thu 5/8/14		3,4	Site Eng. [60%], Surveyor, H
ID	Resource Name	Units	Work	Delay	Start	Finish
1	Site Eng.	60%	9.6 hrs	0 days	Thu 5/8/14	Fri 5/9/14
3	Surveyor	100%	0.17 hrs	0 days	Thu 5/8/14	Thu 5/8/14
4	Helper	100%	0.17 hrs	0 days	Thu 5/8/14	Thu 5/8/14
7	Excavation	7 days	Mon 5/12/14		6	Labour[500%], Supervisor[6
ID	Resource Name	Units	Work	Delay	Start	Finish
1	Site Eng.	60%	33.6 hrs	0 days	Mon 5/12/14	Tue 5/20/14
2	Supervisor	60%	33.6 hrs	0 days	Mon 5/12/14	Tue 5/20/14
5	Labour	500%	6.72 hrs	0 days	Mon 5/12/14	Mon 5/12/14
8	Foundation	12 days	Wed 5/21/14		5,7	Site Eng., Supervisor, Carpe
ID	Resource Name	Units	Work	Delay	Start	Finish
1	Site Eng.	100%	96 hrs	0 days	Wed 5/21/14	Thu 6/5/14
2	Supervisor	100%	96 hrs	0 days	Wed 5/21/14	Thu 6/5/14
3	Labour	1200%	1,152 hrs	0 days	Wed 5/21/14	Thu 6/5/14
6	Carpenter	200%	288 hrs	0 days	Wed 5/21/14	Thu 6/5/14
7	Barbender	200%	192 hrs	0 days	Wed 5/21/14	Thu 6/5/14
8	Mason	200%	192 hrs	0 days	Wed 5/21/14	Thu 6/5/14
9	Concrete	70	70	0 days	Wed 5/21/14	Thu 6/5/14

ID	Task Name	Duration	Start	Finish	Predecessors	Resource Names																																																								
9	Curing (I)	7 days	Fri 6/6/14	Mon 6/16/14	8	Site Eng., Supervisor, Helpe																																																								
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10	Water	7	7	0 days	Fri 6/6/14	Mon 6/16/14																																																								
10	Back Filling	4 days	Tue 6/17/14	Fri 6/20/14	9	Site Eng., Supervisor, Labou																																																								
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12	Mortar	1,000	1,000	0 days	Wed 8/6/14	Tue 8/19/14																																																								
14	Roof Ins. (hum.)	3 days	Wed 8/6/14	Fri 8/8/14	12	Site Eng. [50%], Supervisor																																																								
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5

ID	Task Name	Duration	Start	Finish	Predecessors	Resource Names
"Roof Ins. (heat)" continued						
<b>16</b>						
Elect. Works						
ID	Resource Name	Units	Work	Delay	Start	Finish
4	Helper	200%	16 hrs	0 days	Mon 8/11/14	Mon 8/11/14
13	Insulator	200%	16 hrs	0 days	Mon 8/11/14	Mon 8/11/14
14	Hum. Ins.	300	300	0 days	Mon 8/11/14	Tue 8/12/14
<b>17</b>						
Plumbing						
ID	Resource Name	Units	Work	Delay	Start	Finish
1	Site Eng.	40%	22.4 hrs	0 days	Wed 8/20/14	Thu 8/28/14
2	Supervisor	40%	22.4 hrs	0 days	Wed 8/20/14	Thu 8/28/14
4	Helper	200%	112 hrs	0 days	Wed 8/20/14	Thu 8/28/14
16	Electrician	200%	112 hrs	0 days	Wed 8/20/14	Thu 8/28/14
17	Conduits & Boxes	1	1	0 days	Wed 8/20/14	Thu 8/28/14
<b>18</b>						
Door Frames						
ID	Resource Name	Units	Work	Delay	Start	Finish
1	Site Eng.	20%	3.2 hrs	0 days	Wed 8/20/14	Thu 8/21/14
2	Supervisor	20%	3.2 hrs	0 days	Wed 8/20/14	Thu 8/21/14
4	Helper	100%	16 hrs	0 days	Wed 8/20/14	Thu 8/21/14
6	Carpenter	100%	16 hrs	0 days	Wed 8/20/14	Thu 8/21/14
21	Door Frames	13	13	0 days	Wed 8/20/14	Thu 8/21/14
<b>19</b>						
A.C. Ducs						
ID	Resource Name	Units	Work	Delay	Start	Finish
1	Site Eng.	100%	56 hrs	0 days	Fri 8/29/14	Mon 9/8/14
2	Supervisor	100%	56 hrs	0 days	Fri 8/29/14	Mon 9/8/14
4	Helper	200%	112 hrs	0 days	Fri 8/29/14	Mon 9/8/14
22	Fabricator	200%	112 hrs	0 days	Fri 8/29/14	Mon 9/8/14
23	Ducs	1	1	0 days	Fri 8/29/14	Mon 9/8/14
<b>20</b>						
Int. Plastering						
ID	Resource Name	Units	Work	Delay	Start	Finish
1	Site Eng.	50%	68 hrs	0 days	Tue 9/9/14	Wed 10/1/14
2	Supervisor	50%	68 hrs	0 days	Tue 9/9/14	Wed 10/1/14
4	Helper	200%	272 hrs	0 days	Tue 9/9/14	Wed 10/1/14
12	Mortar	1,000	1,000	0 days	Tue 9/9/14	Wed 10/1/14
24	Plasterer	200%	272 hrs	0 days	Tue 9/9/14	Wed 10/1/14
<b>24</b>						
Ext. Cladding						
ID	Resource Name	Units	Work	Delay	Start	Finish
1	Site Eng.	50%	80 hrs	0 days	Tue 9/9/14	Mon 10/6/14

(6)

"Ext Cladding" continued

ID	Task Name	Duration	Start	Finish	Predecessors	Resource Names
<b>21</b>						
Floor (Ceram.)						
ID	Resource Name	Units	Work	Delay	Start	Finish
1	Site Eng.	10%	1.6 hrs	0 days	Thu 10/2/14	Fr 10/3/14
2	Supervisor	10%	1.6 hrs	0 days	Thu 10/2/14	Fr 10/3/14
4	Helper	100%	16 hrs	0 days	Thu 10/2/14	Fr 10/3/14
12	Mortar	50	50	0 days	Thu 10/2/14	Fr 10/3/14
25	Cer. Fixer	100%	16 hrs	0 days	Thu 10/2/14	Fr 10/3/14
26	Cer. tiles	15	15	0 days	Thu 10/2/14	Fr 10/3/14
2 days						
Thu 10/2/14						
Fri 10/3/14 15.20						
Site Eng. [10%],Supervisor[						
<b>22</b>						
Floor (terraz.)						
ID	Resource Name	Units	Work	Delay	Start	Finish
1	Site Eng.	20%	8.25 hrs	0 days	Thu 10/2/14	Thu 10/9/14
2	Supervisor	20%	8.25 hrs	0 days	Thu 10/2/14	Thu 10/9/14
4	Helper	200%	82.5 hrs	0 days	Thu 10/2/14	Wed 10/22/14
12	Mortar	250	250	0 days	Thu 10/2/14	Wed 10/22/14
27	Ter. Fixer	200%	240 hrs	0 days	Thu 10/2/14	Wed 10/22/14
28	Ter. Tiles	250	250	0 days	Thu 10/2/14	Wed 10/22/14
15 days						
Thu 10/2/14						
Wed 10/22/14 15.20						
Site Eng. [20%],Supervisor[						
<b>23</b>						
False Ceiling						
ID	Resource Name	Units	Work	Delay	Start	Finish
1	Site Eng.	20%	24 hrs	0 days	Thu 10/2/14	Wed 10/22/14
2	Supervisor	20%	24 hrs	0 days	Thu 10/2/14	Wed 10/22/14
4	Helper	200%	170 hrs	0 days	Thu 10/2/14	Thu 10/16/14
29	FS, Fixer	100%	120 hrs	0 days	Thu 10/2/14	Wed 10/22/14
30	FS, Mat	250	250	0 days	Thu 10/2/14	Wed 10/22/14
10 days						
Thu 10/7/14						
Tue 10/20/14 20.24						
Site Eng. [60%],Supervisor[						
<b>25</b>						
Alum. Works						
ID	Resource Name	Units	Work	Delay	Start	Finish
1	Site Eng.	60%	40 hrs	0 days	Tue 10/7/14	Fr 10/17/14
2	Supervisor	60%	40 hrs	0 days	Tue 10/7/14	Fr 10/17/14
4	Helper	200%	160 hrs	0 days	Tue 10/7/14	Mon 10/20/14
33	Alum. Fixer	200%	160 hrs	0 days	Tue 10/7/14	Mon 10/20/14
34	Alum. & Glass	35	35	0 days	Tue 10/7/14	Mon 10/20/14
4 days						
Thu 10/23/14						
Tue 10/28/14 23						
Site Eng. [40%],Supervisor[						
<b>26</b>						
Wooden Doors						
ID	Resource Name	Units	Work	Delay	Start	Finish
1	Site Eng.	40%	12.8 hrs	0 days	Thu 10/23/14	Tue 10/28/14
2	Supervisor	40%	12.8 hrs	0 days	Thu 10/23/14	Tue 10/28/14
4	Helper	13%	4.17 hrs	0 days	Thu 10/23/14	Tue 10/28/14
6	Carpenter	100%	32 hrs	0 days	Thu 10/23/14	Tue 10/28/14
35	Door	13	13	0 days	Thu 10/23/14	Tue 10/28/14



ID	Task Name	Duration	Start	Finish	Predecessors	Resource Names																																																	
30	sanitary fit	7 days	Thu 10/23/14	Fri 10/31/14	21,22	Site Eng. [30%],Supervisor[																																																	
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1	Site Eng.	30%	16.8 hrs	0 days	Thu 10/23/14	Fri 10/31/14																																																	
2	Supervisor	30%	16.8 hrs	0 days	Thu 10/23/14	Fri 10/31/14																																																	
4	Helper	100%	56 hrs	0 days	Thu 10/23/14	Fri 10/31/14																																																	
18	Plumber	100%	56 hrs	0 days	Thu 10/23/14	Fri 10/31/14																																																	
40	San. Fittings	1	1	0 days	Thu 10/23/14	Fri 10/31/14																																																	
31	Elec. Fit & Cabl.	5 days	Thu 10/23/14	Wed 10/29/14	23	Site Eng. [30%],Supervisor[																																																	
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39	Painter Wood W.	100%	32 hrs	0 days	Wed 10/29/14	Mon 11/3/14																																																	
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26	Cer. Tiles	110	110	0 days	Wed 10/29/14	Fri 10/31/14																																																	
32	A.C. Machines	10 days	Thu 10/30/14	Wed 11/12/14	31	Site Eng. [10%],Supervisor[																																																	
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43	A.C. Mach.	2	2	0 days	Thu 10/30/14	Wed 11/12/14																																																	





ID	Task Name	Duration	Start	Finish	Predecessors	Resource Names	
33	Commis. & Clean	4 days	Thu 11/13/14	Tue 11/18/14	25,27,28,29,30,32	Site Eng., Supervisor, Helpe	
	<b>ID</b>	<b>Resource Name</b>	<b>Units</b>	<b>Work</b>	<b>Delay</b>	<b>Start</b>	<b>Finish</b>
	1	Site Eng.	100%	7.88 hrs	0 days	Thu 11/13/14	Thu 11/13/14
	2	Supervisor	100%	7.88 hrs	0 days	Thu 11/13/14	Thu 11/13/14
	4	Helper	400%	52.57 hrs	0 days	Thu 11/13/14	Fri 11/14/14
	16	Electrician	50%	16 hrs	0 days	Thu 11/13/14	Tue 11/18/14
	18	Plumber	50%	13.15 hrs	0 days	Thu 11/13/14	Tue 11/18/14
	42	A.C. Tech.	50%	13.15 hrs	0 days	Thu 11/13/14	Tue 11/18/14
	46	Contractor	1	1	0 days	Thu 11/13/14	Tue 11/18/14
34	Project End	0 days	Tue 11/18/14	Tue 11/18/14	33		

# **Top Level Tasks**

**(10)**

ID	Task Name	Duration	Start	Finish	% Comp.	Cost	Work
1	Project Start	0 days	Tue 4/1/14	Tue 4/1/14	0%	\$0.00	0 hrs
2	Project Design	4 wks	Tue 4/1/14	Mon 4/28/14	0%	\$3,000.00	0 hrs
3	Labor Prov.	7 days	Tue 4/29/14	Wed 5/7/14	0%	\$4,833.29	33.6 hrs
4	Equip Prov.	7 days	Tue 4/29/14	Wed 5/7/14	0%	\$4,866.57	33.6 hrs
5	Mat. Prov.	14 days	Tue 4/29/14	Fri 5/16/14	0%	\$6,066.00	89.6 hrs
6	Survey	2 days	Thu 5/8/14	Fri 5/9/14	0%	\$57.40	9.92 hrs
7	Excavation	7 days	Mon 5/12/14	Tue 5/20/14	0%	\$367.64	73.92 hrs
8	Foundation	12 days	Wed 5/21/14	Thu 6/5/14	0%	\$145.20	2,016 hrs
9	Curing (I)	7 days	Fri 6/6/14	Mon 6/16/14	0%	\$263.90	168 hrs
10	Back Filling	4 days	Tue 6/17/14	Fri 6/20/14	0%	\$153.60	96 hrs
11	Superstructure	18 days	Mon 6/23/14	Wed 7/16/14	0%	\$5,830.50	2,736 hrs
12	Curing (II)	14 days	Thu 7/17/14	Tue 8/5/14	0%	\$514.80	336 hrs
13	Walling	10 days	Wed 8/6/14	Tue 8/19/14	0%	\$1,479.00	240 hrs
14	Roof Ins. (lum.)	3 days	Wed 8/6/14	Fri 8/8/14	0%	\$537.60	72 hrs
15	Roof Ins. (heat)	2 days	Mon 8/11/14	Tue 8/12/14	0%	\$970.10	48 hrs
16	Elect. Works	7 days	Wed 8/20/14	Thu 8/28/14	0%	\$355.66	268.8 hrs
17	Plumbing	7 days	Wed 8/20/14	Thu 8/28/14	0%	\$919.11	305.48 hrs
18	Door Frames	2 days	Wed 8/20/14	Thu 8/21/14	0%	\$169.38	38.4 hrs
19	A.C. Ducs	7 days	Fri 8/29/14	Mon 9/8/14	0%	\$485.70	336 hrs
20	Int. Plastering	17 days	Tue 9/9/14	Wed 10/1/14	0%	\$923.35	680 hrs
21	Floor (Ceram.)	2 days	Thu 10/2/14	Fri 10/3/14	0%	\$139.74	35.2 hrs
22	Floor (terraz.)	15 days	Thu 10/2/14	Wed 10/22/14	0%	\$920.10	339 hrs
23	False Ceiling	15 days	Thu 10/2/14	Wed 10/22/14	0%	\$1,395.10	338 hrs
24	Ext. Clading	20 days	Tue 9/9/14	Mon 10/6/14	0%	\$1,979.50	800 hrs
25	Alum. Works	10 days	Tue 10/7/14	Mon 10/20/14	0%	\$1,015.20	400 hrs
26	Wooden Doors	4 days	Thu 10/23/14	Tue 10/28/14	0%	\$429.12	61.77 hrs
27	Int. Painting	10 days	Wed 10/29/14	Tue 11/1/14	0%	\$281.70	176 hrs
28	Paint Woodwork	4 days	Wed 10/29/14	Mon 11/3/14	0%	\$85.68	70.4 hrs
29	Ceramic Walls	3 days	Wed 10/29/14	Fri 10/31/14	0%	\$706.51	52.8 hrs
30	sanitary Fitt.	7 days	Thu 10/23/14	Fri 10/31/14	0%	\$1,360.02	145.6 hrs
31	Elec. Fitt & Cabl.	5 days	Thu 10/23/14	Wed 10/29/14	0%	\$1,606.05	184 hrs
32	A.C. Machines	10 days	Thu 10/30/14	Wed 11/12/14	0%	\$5,950.21	416 hrs
33	Commis. & Clean.	4 days	Thu 11/13/14	Tue 11/18/14	0%	\$10,650.50	110.63 hrs
34	Project End	0 days	Tue 11/18/14	Tue 11/18/14	0%	\$0.00	0 hrs

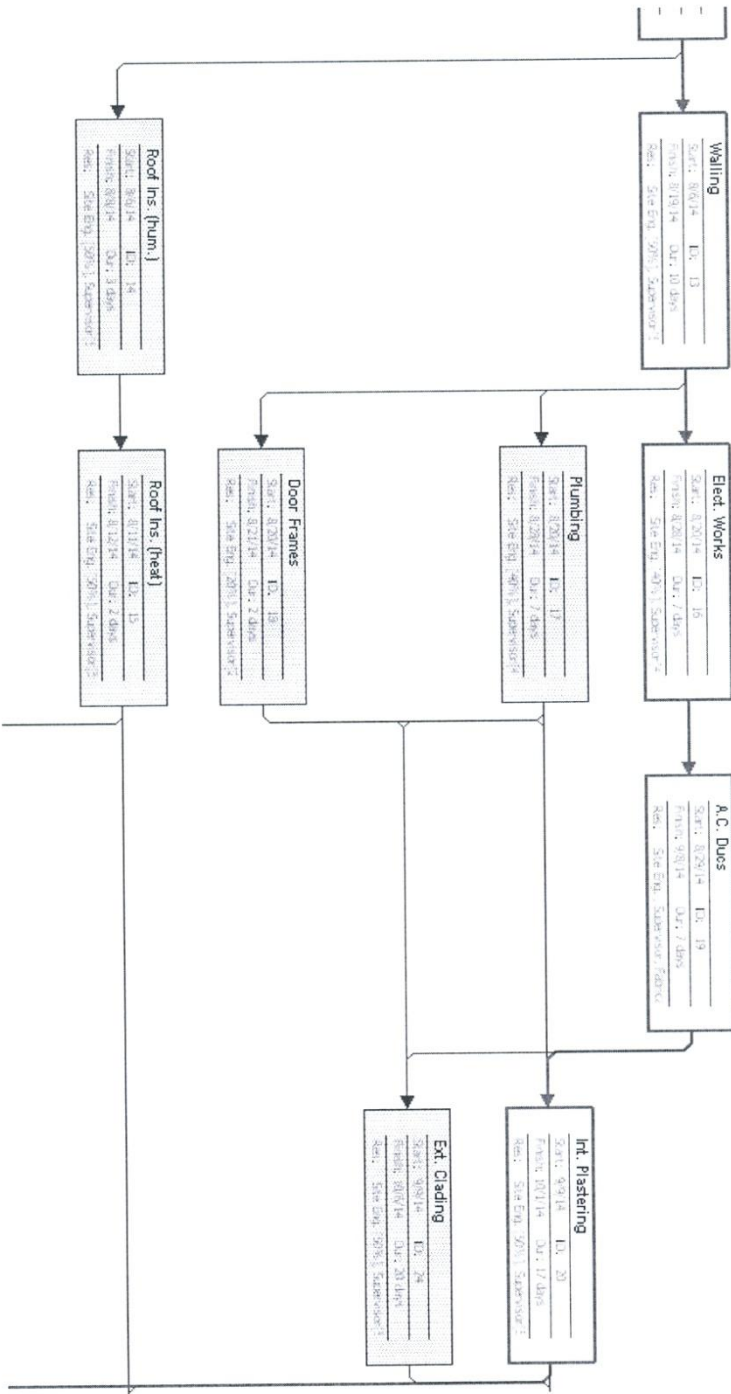
# **Critical Tasks**

**(12)**

ID	Task Name	Duration	Start	Finish	Predecessors	Resource Names
1	Project Start	0 days	Tue 4/1/14	Tue 4/1/14		
2	Project Design	4 wks	Tue 4/1/14	Mon 4/28/14	1	Cons. Office [1]
3	Labor Prov.	7 days	Tue 4/29/14	Wed 5/7/14	2	Contractor [0.3], Site Eng. [3]
4	Equip Prov.	7 days	Tue 4/29/14	Wed 5/7/14	2	Contractor [0.3], Site Eng. [3]
6	Survey	2 days	Thu 5/8/14	Fri 5/9/14	3,4	Site Eng. [60%], Surveyor, H
7	Excavation	7 days	Mon 5/12/14	Tue 5/20/14	6	Labour[500%], Supervisor[6]
8	Foundation	12 days	Wed 5/21/14	Thu 6/5/14	5,7	Site Eng. , Supervisor, Carpe
9	Curing (I)	7 days	Fri 6/6/14	Mon 6/16/14	8	Site Eng. , Supervisor, Helpe
10	Back Filling	4 days	Tue 6/17/14	Fri 6/20/14	9	Site Eng. , Supervisor, Labou
11	Superstructure	18 days	Mon 6/23/14	Wed 7/16/14	10	Site Eng. , Supervisor, Carpe
12	Curing (II)	14 days	Thu 7/17/14	Tue 8/5/14	11	Site Eng. , Supervisor, Helpe
13	Walling	FS				
14	Roof Ins. (Hum.)	FS				

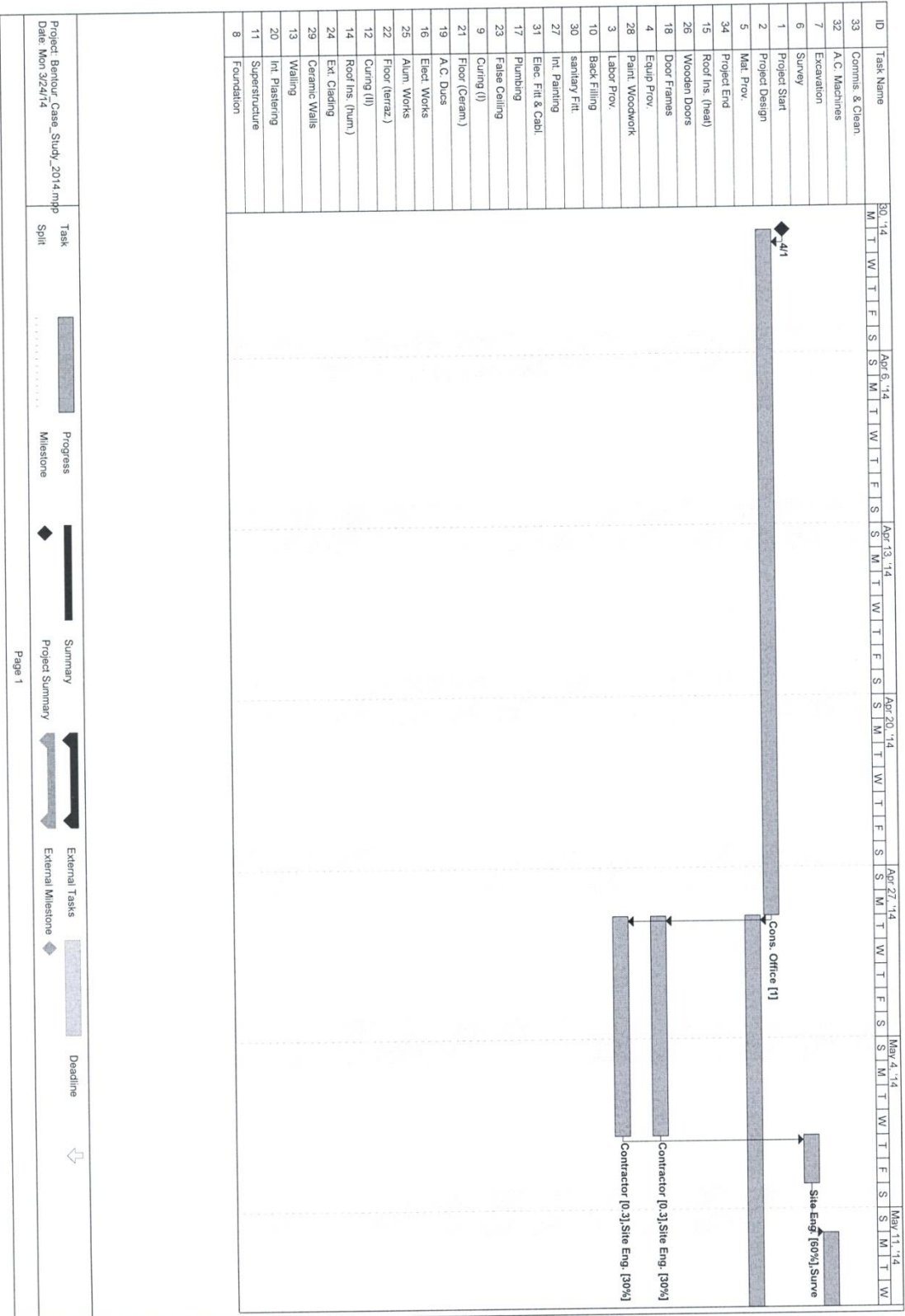
ID	Task Name	Duration	Start	Finish	Predecessors	Resource Names
13	Walling	10 days	Wed 8/6/14	Tue 8/19/14	12	Site Eng. [50%], Supervisor
16	Elect. Works	FS 0 days				
17	Plumbing	FS 0 days				
18	Door Frames	FS 0 days				
16	Elect. Works	7 days	Wed 8/20/14	Thu 8/28/14	13	Site Eng. [40%], Supervisor
19	A.C. Ducs	7 days	Fri 8/29/14	Mon 9/8/14	16	Site Eng. , Supervisor, Fabric
20	Int. Plastering	17 days	Tue 9/9/14	Wed 10/1/14	17, 18, 19	Site Eng. [50%], Supervisor
23	False Ceiling	15 days	Thu 10/2/14	Wed 10/22/14	15, 20	Site Eng. [20%], Supervisor
31	Elec. Fitt & Cabl.	5 days	Thu 10/23/14	Wed 10/29/14	23	Site Eng. [30%], Supervisor
32	A.C. Machines	10 days	Thu 10/30/14	Wed 11/12/14	31	Site Eng. [10%], Supervisor
33	Commis. & Clean.	4 days	Thu 11/13/14	Tue 11/18/14	25, 27, 28, 29, 30, 32	Site Eng. , Supervisor, Helpe
34	Project End	0 days	Tue 11/18/14	Tue 11/18/14	33	

# Diagram Network



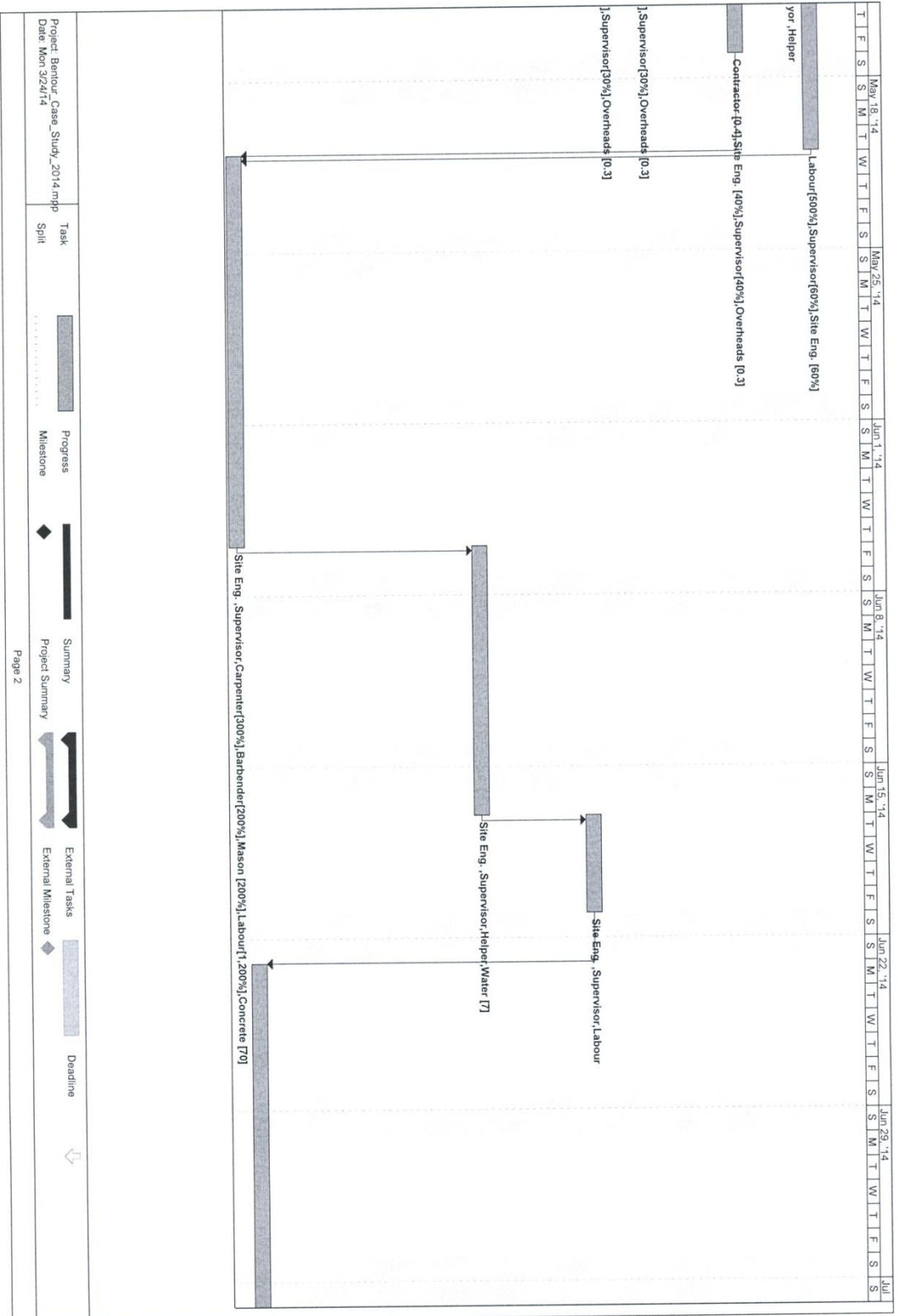


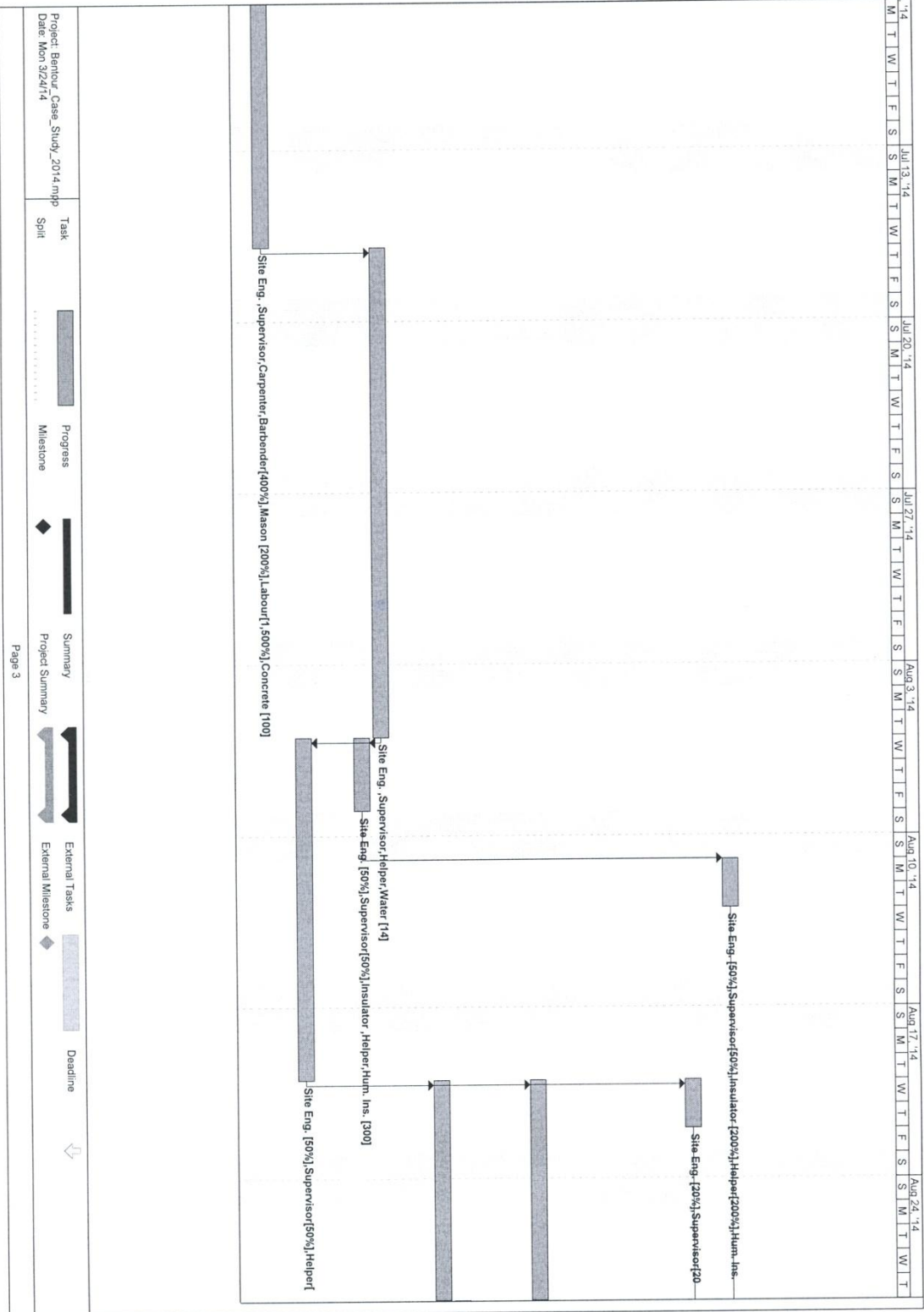
# **Gantt Chart**



Project: Bentour\_Case\_Study\_2014.mpp  
 Date: Mon 3/24/14

Task Split Progress Milestone Summary Project Summary External Tasks External Milestone Deadline





Project: Bentour\_Case\_Study\_2014.mpp  
 Date: Mon 3/24/14

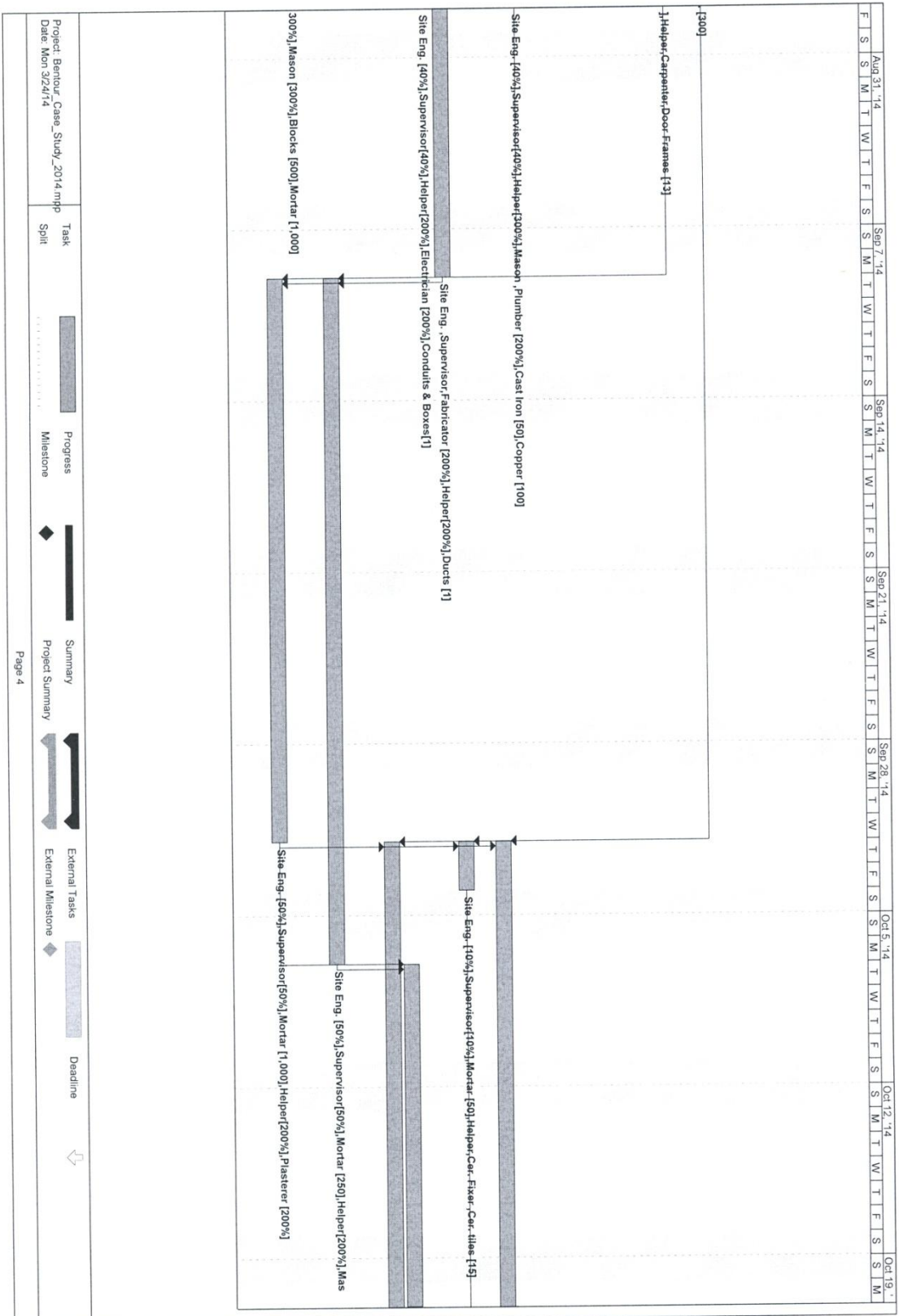
Task: Split

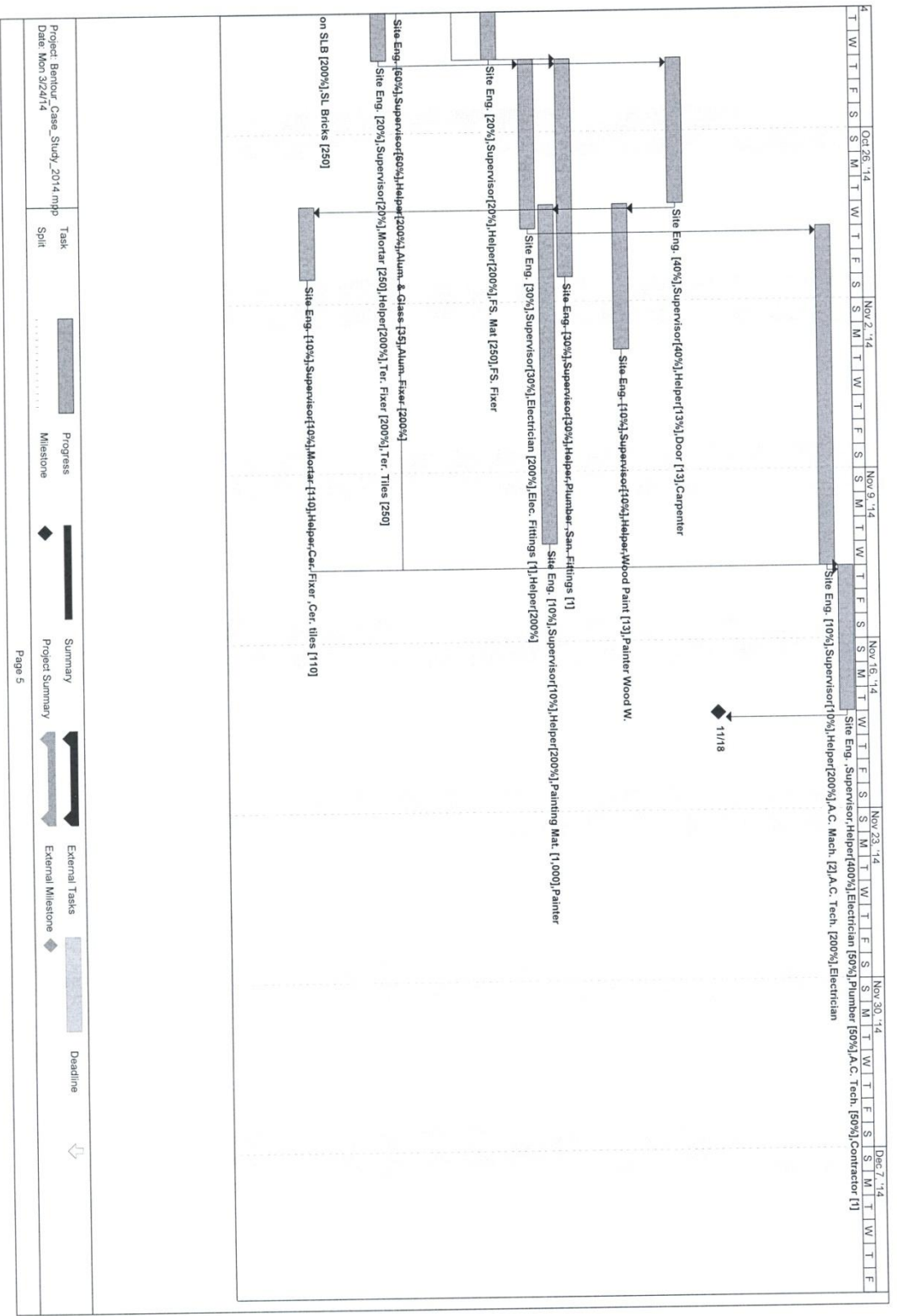
Progress: Milestones

Summary: Project Summary

External Tasks: External Milestone

Deadline





Project: Bentour\_Case\_Study\_2014.mpp  
 Date: Mon 3/24/14

Task Split Progress Milestone Summary Project Summary External Tasks External Milestone Deadline