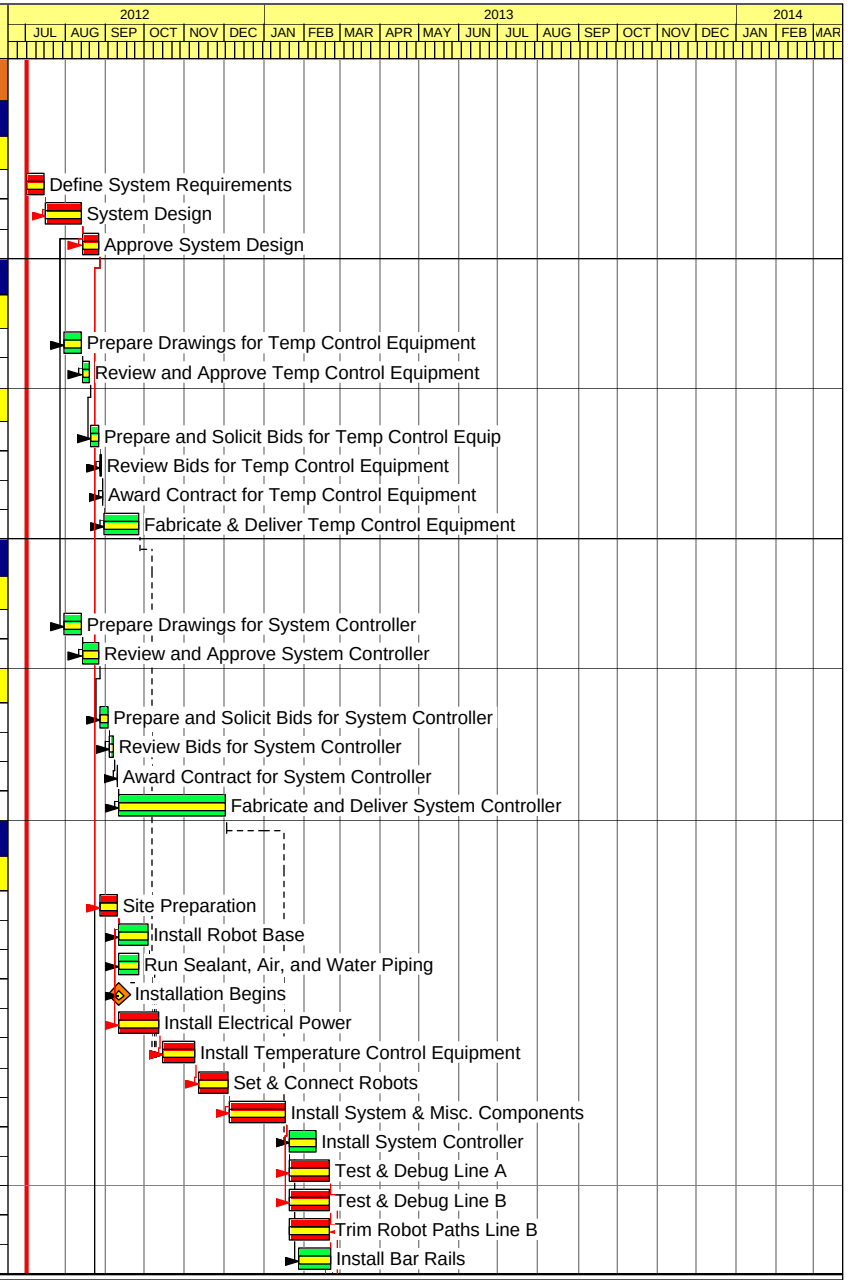
Act ID	Activity Description	OD	RD	Early Start	Field Start	Early Finish	Field RD	Field Cmplt
Plant Expansion and Modernization								
Automated System Design								
Engineering Department								
AS100	Define System Requirements	10	10	02JUL12		16JUL12		
AS101	System Design	20	20	17JUL12		13AUG12		
AS102	Approve System Design	10	10	14AUG12		27AUG12		
Temperature Control Equipment								
Engineering Department								
AS204	Prepare Drawings for Temp Control	10	10	31JUL12		13AUG12		
AS205	Review and Approve Temp Control	5	5	14AUG12		20AUG12		
Purchasing Department								
AS200	Prepare and Solicit Bids for Temp	5	5	21AUG12		27AUG12		
AS201	Review Bids for Temp Control	2	2	28AUG12		29AUG12		
AS202	Award Contract for Temp Control	1	1	30AUG12		30AUG12		
AS206	Fabricate & Deliver Temp Control	20	20	31AUG12		27SEP12		
System Controller								
Engineering Department								
AS216	Prepare Drawings for System Controller	10	10	31JUL12		13AUG12		
AS217	Review and Approve System Controller	10	10	14AUG12		27AUG12		
Purchasing Department								
AS213	Prepare and Solicit Bids for System	5	5	28AUG12		03SEP12		
AS214	Review Bids for System Controller	4	4	04SEP12		07SEP12		
AS215	Award Contract for System Controller	1	1	10SEP12		10SEP12		
AS218	Fabricate and Deliver System Controller	60	60	11SEP12		03DEC12		
Hardware								
Information Systems Department								
AS310	Site Preparation	10	10	28AUG12		10SEP12		
AS103	Install Robot Base	18	18	11SEP12		04OCT12		
AS104	Run Sealant, Air, and Water Piping	13	13	11SEP12		27SEP12		
AS240	Installation Begins	0	0	11SEP12				
AS315	Install Electrical Power	24	24	11SEP12		12OCT12		
AS105	Install Temperature Control Equipment	20	20	15OCT12		09NOV12		
AS106	Set & Connect Robots	18	18	12NOV12		05DEC12		
AS107	Install System & Misc. Components	30	30	06DEC12		18JAN13		
AS108	Install System Controller	16	16	21JAN13		11FEB13		
AS109	Test & Debug Line A	24	24	21JAN13		21FEB13		
AS110	Test & Debug Line B	24	24	21JAN13		21FEB13		
AS270	Trim Robot Paths Line B	24	24	21JAN13		21FEB13		
AS250	Install Bar Rails	20	20	28JAN13		22FEB13		



Start date	02JUL12
Finish date	13JAN14
Data date	02JUL12
Run date	04SEP10
Page number	1A

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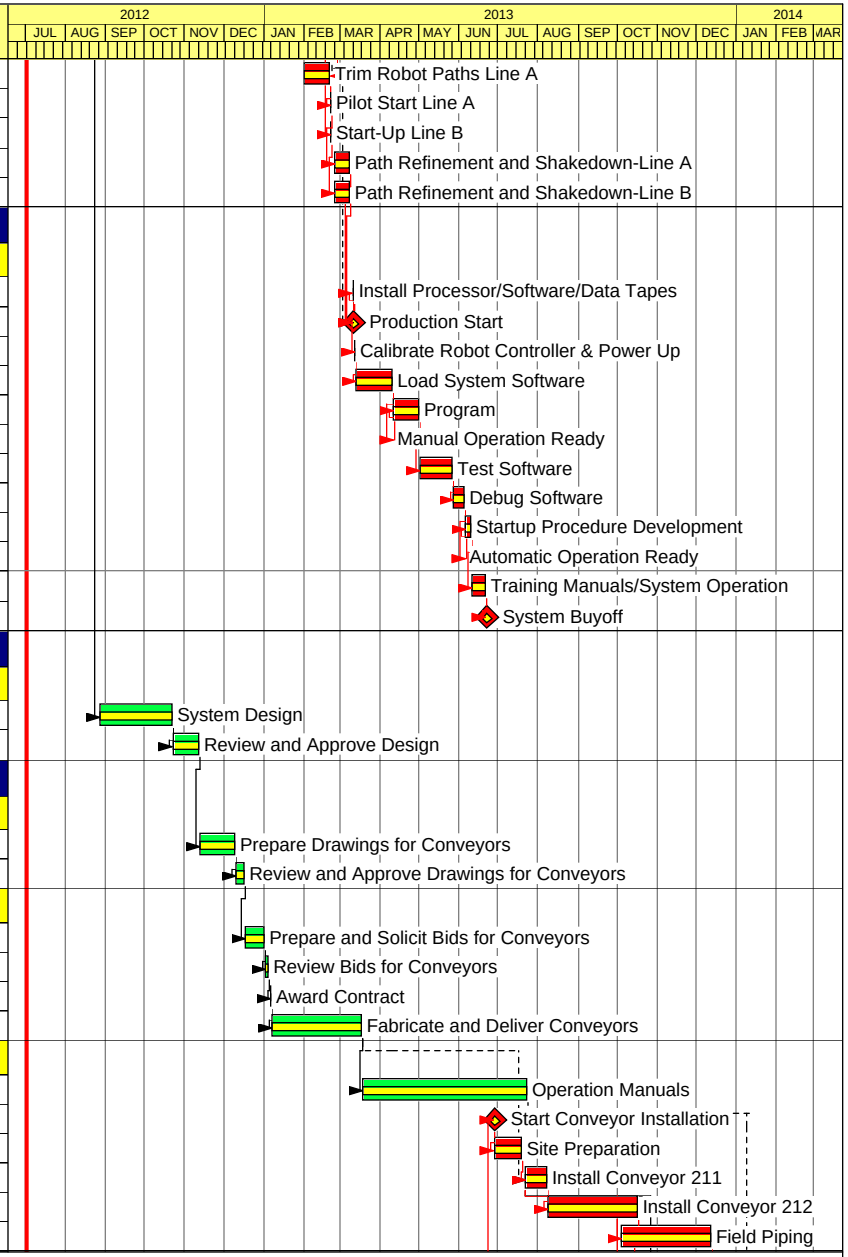
Act ID	Activity Description	OD	RD	Early Start	Field Start	Early Finish	Field RD	Field Cmplt
AS260	Trim Robot Paths Line A	15	15	01FEB13		21FEB13		
AS111	Pilot Start Line A	1	1	22FEB13		22FEB13		
AS112	Start-Up Line B	1	1	22FEB13		22FEB13		
AS265	Path Refinement and Shakedown-Line	10	10	25FEB13		08MAR13		
AS275	Path Refinement and Shakedown-Line	10	10	25FEB13		08MAR13		
Software								
Information Systems Department								
AS113	Install Processor/Software/Data Tapes	2	2	11MAR13		12MAR13		
AS150	Production Start	0	0	11MAR13				
AS114	Calibrate Robot Controller & Power Up	1	1	13MAR13		13MAR13		
AS115	Load System Software	20	20	14MAR13		10APR13		
AS116	Program	15	15	11APR13		01MAY13		
AS600	Manual Operation Ready	0	0	11APR13		10APR13		
AS280	Test Software	18	18	02MAY13		27MAY13		
AS285	Debug Software	7	7	28MAY13		05JUN13		
AS117	Startup Procedure Development	3	3	06JUN13		10JUN13		
AS500	Automatic Operation Ready	0	0	06JUN13		05JUN13		
AS118	Training Manuals/System Operation	9	9	11JUN13		21JUN13		
AS900	System Buyoff	0	0			21JUN13		
Conveyor System Design								
Engineering Department								
CS300	System Design	40	40	28AUG12		22OCT12		
CS310	Review and Approve Design	15	15	23OCT12		12NOV12		
Conveyors								
Engineering Department								
CS430	Prepare Drawings for Conveyors	20	20	13NOV12		10DEC12		
CS440	Review and Approve Drawings for	5	5	11DEC12		17DEC12		
Purchasing Department								
CS400	Prepare and Solicit Bids for Conveyors	10	10	18DEC12		02JAN13		
CS410	Review Bids for Conveyors	2	2	03JAN13		04JAN13		
CS420	Award Contract	1	1	07JAN13		07JAN13		
CS450	Fabricate and Deliver Conveyors	50	50	08JAN13		18MAR13		
Information Systems Department								
CS770	Operation Manuals	90	90	19MAR13		23JUL13		
CS311	Start Conveyor Installation	0	0	28JUN13				
CS315	Site Preparation	15	15	28JUN13		19JUL13		
CS700	Install Conveyor 211	14	14	22JUL13		08AUG13		
CS710	Install Conveyor 212	50	50	09AUG13		17OCT13		
CS740	Field Piping	50	50	04OCT13		12DEC13		



Start date	02JUL12
Finish date	13JAN14
Data date	02JUL12
Run date	04SEP10
Page number	2A

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Act ID	Activity Description	OD	RD	Early Start	Field Start	Early Finish	Field RD	Field Cmplt
CS750	Field Wiring	50	50	04OCT13		12DEC13		
CS720	Install Conveyor 213	10	10	18OCT13		31OCT13		
CS730	Install Conveyor 214	30	30	01NOV13		12DEC13		
CS760	Field Painting	20	20	01NOV13		28NOV13		
CS305	Start-Up & Debug System	20	20	13DEC13		13JAN14		
CS800	Conveyor System Complete	0	0			13JAN14		
Building Design								
Engineering Department								
T	Design Building Addition	20	20	02JUL12		30JUL12		
BA501	Review and Approve Designs	14	14	31JUL12		17AUG12		
Brick								
Engineering Department								
BA530	Review and Approve Brick Samples	10	10	03SEP12		14SEP12		
Purchasing Department								
BA450	Assemble Brick Samples	10	10	20AUG12		31AUG12		
BA421	Prepare and Solicit Bids for Brick	3	3	17SEP12		19SEP12		
BA422	Review Bids for Brick	3	3	20SEP12		24SEP12		
BA423	Award Contract for Brick	1	1	25SEP12		25SEP12		
BA600	Deliver Brick	60	60	26SEP12		18DEC12		
Heat Pump								
Engineering Department								
BA469	Assemble Technical Data for Heat	3	3	20AUG12		22AUG12		
BA470	Review Technical Data on Heat Pumps	10	10	23AUG12		05SEP12		
Purchasing Department								
BA411	Prepare and Solicit Bids for Heat Pump	3	3	06SEP12		10SEP12		
BA412	Review Bids for Heat Pump	2	2	11SEP12		12SEP12		
BA413	Award Contract for Heat Pump	1	1	13SEP12		13SEP12		
BA550	Fabricate and Deliver Heat Pump and	90	90	14SEP12		21JAN13		
Flooring								
Engineering Department								
BA560	Review and Approve Flooring	10	10	03SEP12		14SEP12		
Purchasing Department								
BA480	Assemble and Submit Flooring Samples	10	10	20AUG12		31AUG12		
BA407	Prepare and Solicit Bids for Flooring	5	5	17SEP12		21SEP12		
BA408	Review Bids for Flooring	3	3	24SEP12		26SEP12		
BA409	Award Contract for Flooring	1	1	27SEP12		27SEP12		
BA620	Fabricate and Deliver Flooring	60	60	28SEP12		20DEC12		
Foundation								
Construction Department								

Start date	02JUL12
Finish date	13JAN14
Data date	02JUL12
Run date	04SEP10
Page number	3A

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Plant Expansion and Modernization

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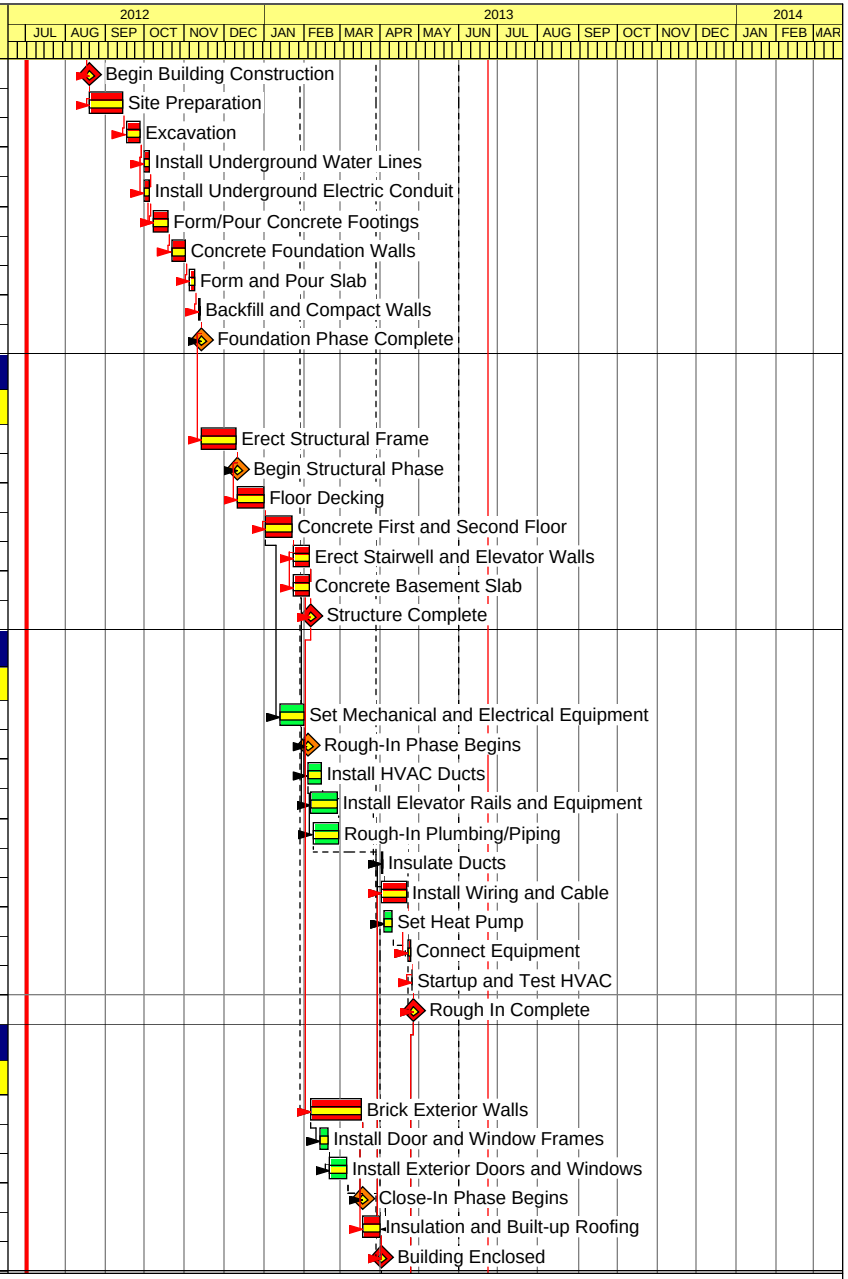
Act ID	Activity Description	OD	RD	Early Start	Field Start	Early Finish	Field RD	Field Cmplt
BA630	Begin Building Construction	0	0	20AUG12				
BA640	Site Preparation	20	20	20AUG12		14SEP12		
BA650	Excavation	10	10	17SEP12		28SEP12		
BA660	Install Underground Water Lines	5	5	01OCT12		05OCT12		
BA670	Install Underground Electric Conduit	5	5	01OCT12		05OCT12		
BA680	Form/Pour Concrete Footings	10	10	08OCT12		19OCT12		
BA681	Concrete Foundation Walls	10	10	22OCT12		02NOV12		
BA690	Form and Pour Slab	5	5	05NOV12		09NOV12		
BA700	Backfill and Compact Walls	2	2	12NOV12		13NOV12		
BA701	Foundation Phase Complete	0	0			13NOV12		
Structure								
Construction Department								
BA710	Erect Structural Frame	20	20	14NOV12		11DEC12		
BA702	Begin Structural Phase	0	0	12DEC12				
BA712	Floor Decking	14	14	12DEC12		02JAN13		
BA730	Concrete First and Second Floor	15	15	03JAN13		23JAN13		
BA720	Erect Stairwell and Elevator Walls	10	10	24JAN13		06FEB13		
BA731	Concrete Basement Slab	10	10	24JAN13		06FEB13		
BA732	Structure Complete	0	0			06FEB13		
Mechanical/Electrical Systems								
Construction Department								
BA810	Set Mechanical and Electrical	15	15	14JAN13		01FEB13		
BA809	Rough-In Phase Begins	0	0	04FEB13				
BA820	Install HVAC Ducts	10	10	04FEB13		15FEB13		
BA860	Install Elevator Rails and Equipment	15	15	07FEB13		27FEB13		
BA840	Rough-In Plumbing/Piping	15	15	08FEB13		28FEB13		
BA830	Insulate Ducts	2	2	02APR13		03APR13		
BA850	Install Wiring and Cable	15	15	02APR13		22APR13		
BA831	Set Heat Pump	5	5	04APR13		10APR13		
BA870	Connect Equipment	3	3	23APR13		25APR13		
BA871	Startup and Test HVAC	1	1	26APR13		26APR13		
BA880	Rough In Complete	0	0			26APR13		
Exterior Finishes								
Construction Department								
BA750	Brick Exterior Walls	28	28	07FEB13		18MAR13		
BA770	Install Door and Window Frames	5	5	14FEB13		20FEB13		
BA790	Install Exterior Doors and Windows	10	10	21FEB13		06MAR13		
BA741	Close-In Phase Begins	0	0	19MAR13				
BA780	Insulation and Built-up Roofing	10	10	19MAR13		01APR13		
BA800	Building Enclosed	0	0			01APR13		



Start date	02JUL12
Finish date	13JAN14
Data date	02JUL12
Run date	04SEP10
Page number	4A

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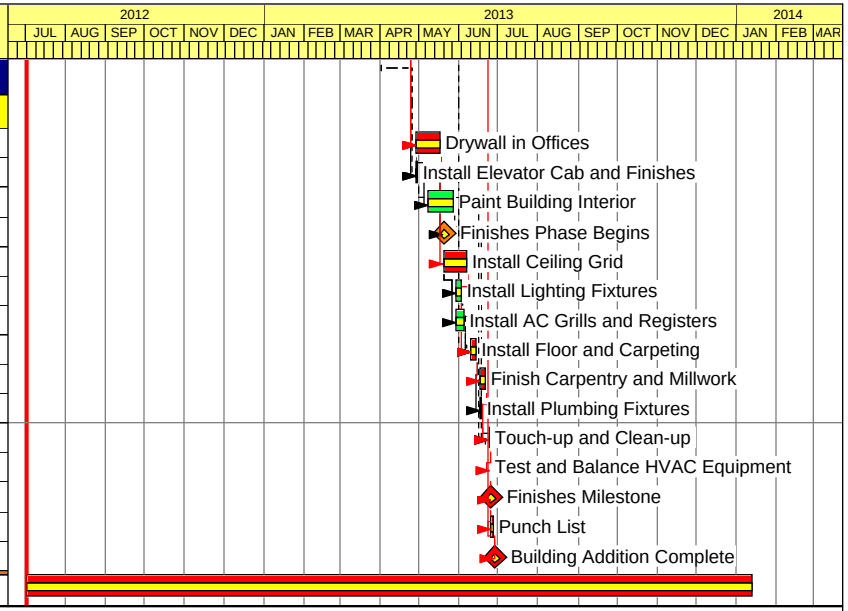
Act ID	Activity Description	OD	RD	Early Start	Field Start	Early Finish	Field RD	Field Cmplt
Interior Finishes								
Construction Department								
BA890	Drywall in Offices	15	15	29APR13		17MAY13		
BA913	Install Elevator Cab and Finishes	2	2	29APR13		30APR13		
BA930	Paint Building Interior	15	15	08MAY13		28MAY13		
BA899	Finishes Phase Begins	0	0	20MAY13				
BA900	Install Ceiling Grid	15	15	20MAY13		07JUN13		
BA901	Install Lighting Fixtures	3	3	30MAY13		03JUN13		
BA902	Install AC Grills and Registers	5	5	30MAY13		05JUN13		
BA910	Install Floor and Carpeting	5	5	10JUN13		14JUN13		
BA911	Finish Carpentry and Millwork	5	5	17JUN13		21JUN13		
BA912	Install Plumbing Fixtures	2	2	17JUN13		18JUN13		
BA940	Touch-up and Clean-up	1	1	24JUN13		24JUN13		
BA941	Test and Balance HVAC Equipment	1	1	25JUN13		25JUN13		
BA950	Finishes Milestone	0	0			25JUN13		
BA960	Punch List	2	2	26JUN13		27JUN13		
BA970	Building Addition Complete	0	0			27JUN13		
		395	395	02JUL12		13JAN14		



Start date	02JUL12
Finish date	13JAN14
Data date	02JUL12
Run date	04SEP10
Page number	5A

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