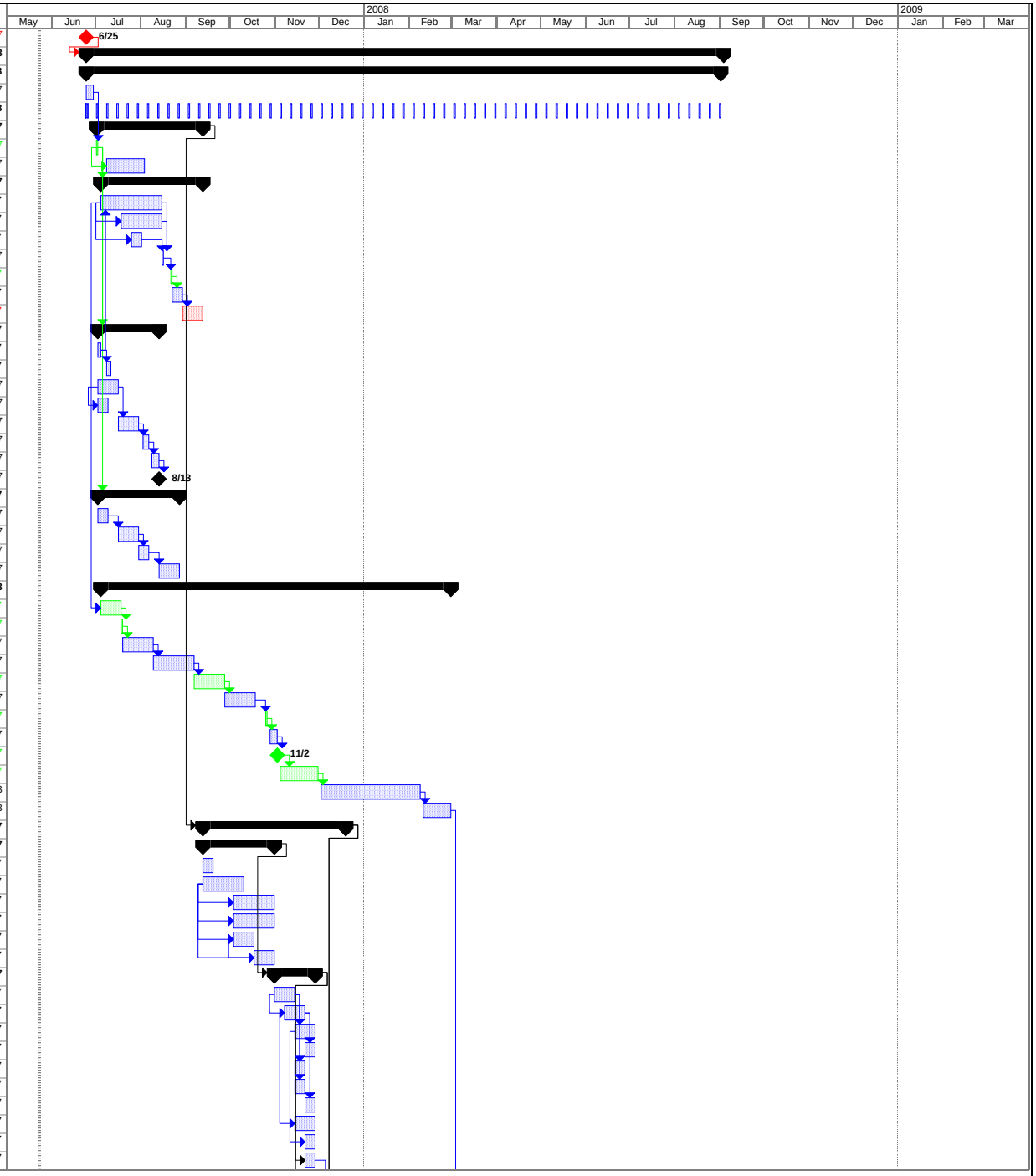
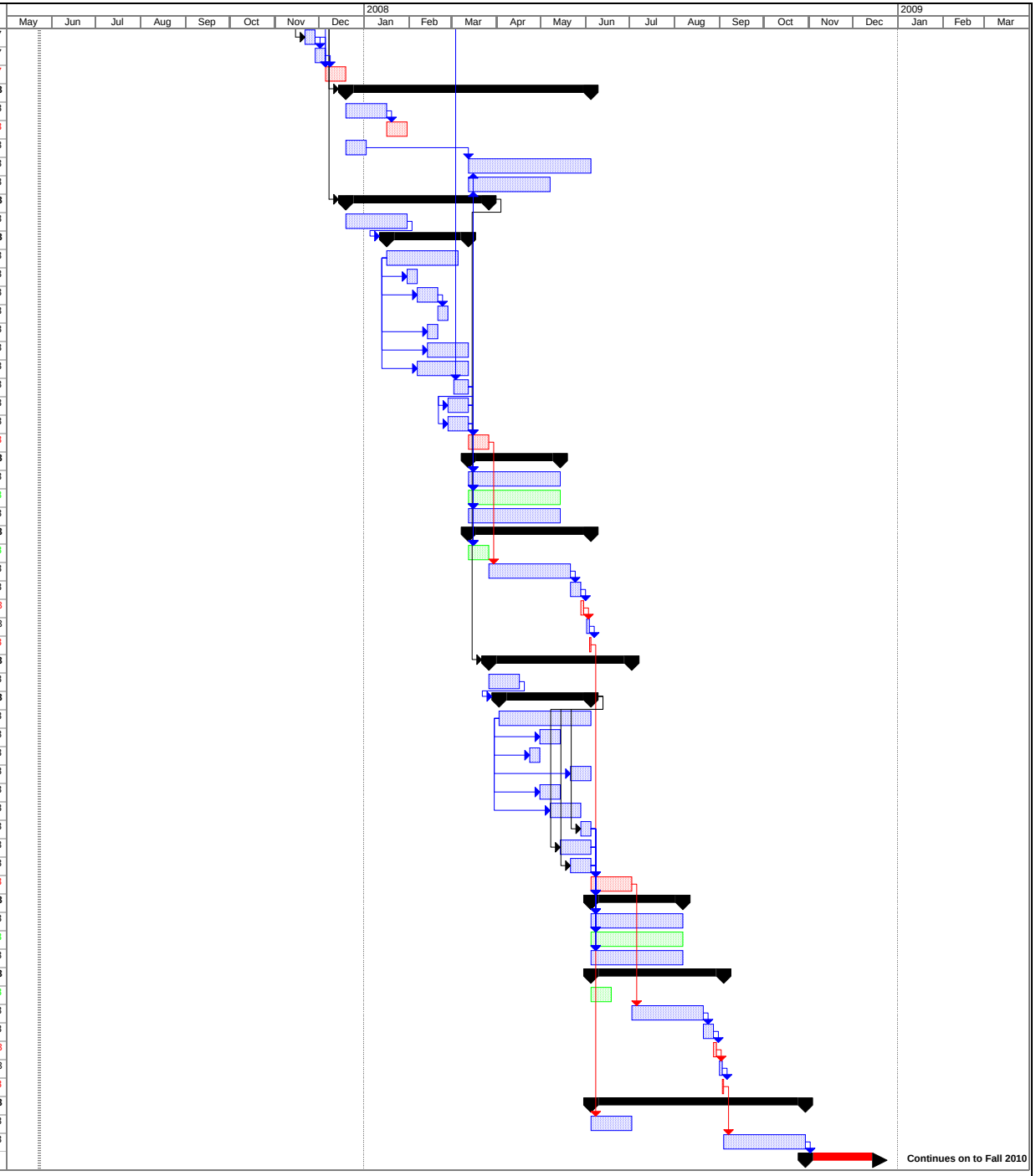
Task Name	Duration	Start	Finish
Notice to proceed	0 days	Mon 6/25/07	Mon 6/25/07
Phase 1 - Final Design	**313 days**	**Mon 6/25/07**	**Wed 9/3/08**
Project Management	**311 days**	**Mon 6/25/07**	**Mon 9/1/08**
Prepare Project Plan	5 days	Mon 6/25/07	Fri 6/29/07
Project Meetings/Teleconferences	**311 days**	**Mon 6/25/07**	**Mon 9/1/08**
Schematic Design	**53 days**	**Mon 7/2/07**	**Wed 9/12/07**
Kick-Off Workshop	1 day	Mon 7/2/07	Mon 7/2/07
Process Modeling	20 days	Mon 7/9/07	Fri 8/3/07
10% WWTP & BCF Design	**50 days**	**Thu 7/5/07**	**Wed 9/12/07**
10% Design and Documents	30 days	Thu 7/5/07	Wed 8/15/07
Building Space Programming	20 days	Thu 7/19/07	Wed 8/15/07
Environmental Condition Assesment	5 days	Thu 7/26/07	Wed 8/1/07
Concept and Criteria Review	1 day	Thu 8/16/07	Thu 8/16/07
Workshop with City Staff	1 day	Wed 8/22/07	Wed 8/22/07
Schematic Design Technical Memorandum	5 days	Thu 8/23/07	Wed 8/29/07
City Review of Schematic Design	10 days	Thu 8/30/07	Wed 9/12/07
Survey and Mapping	**30 days**	**Tue 7/3/07**	**Mon 8/13/07**
Obtain Existing Mapping	2 days	Tue 7/3/07	Wed 7/4/07
Ground Control Survey	3 days	Mon 7/9/07	Wed 7/11/07
Survey and Data Reduction	10 days	Tue 7/3/07	Mon 7/16/07
Utility Research	5 days	Tue 7/3/07	Mon 7/9/07
Basemap Preparation	10 days	Tue 7/17/07	Mon 7/30/07
Field Verification	2 days	Fri 8/3/07	Mon 8/6/07
Follow-up Survey and Basemap Rev.	3 days	Thu 8/9/07	Mon 8/13/07
Basemap Complete	0 days	Mon 8/13/07	Mon 8/13/07
Geotechnical Evaluation	**40 days**	**Tue 7/3/07**	**Mon 8/27/07**
Preliminary Analysis Using Existing Information	5 days	Tue 7/3/07	Mon 7/9/07
Soil Borings	10 days	Tue 7/17/07	Mon 7/30/07
Analysis and Design Technical Memorandum	5 days	Tue 7/31/07	Mon 8/6/07
Draft Geotechnical Report	10 days	Tue 8/14/07	Mon 8/27/07
Membrane Equipment Selection	**172 days**	**Thu 7/5/07**	**Fri 2/29/08**
Confirm Procurement/Selection Process Criteria	10 days	Thu 7/5/07	Wed 7/18/07
Membrane Technology Workshop	1 day	Thu 7/19/07	Thu 7/19/07
Revise Specification	15 days	Fri 7/20/07	Thu 8/9/07
Updated Quotations/Qualifications	20 days	Fri 8/10/07	Thu 9/6/07
Finalize Request for Proposal & Distribute	15 days	Fri 9/7/07	Thu 9/27/07
Manufacturer Proposal Preparation	15 days	Fri 9/28/07	Thu 10/18/07
Proposal "Evaluation" Workshop	1 day	Fri 10/26/07	Fri 10/26/07
Letter of Recommendation	5 days	Mon 10/29/07	Fri 11/2/07
Manufacturer Selected	0 days	Fri 11/2/07	Fri 11/2/07
Assist with Contract Negotiation	20 days	Mon 11/5/07	Fri 11/30/07
Prep of Shop Drawings	50 days	Mon 12/3/07	Fri 2/8/08
Review of Shop Drawings	15 days	Mon 2/11/08	Fri 2/29/08
30% WWTP / 60% BCF Design and Plans	**70 days**	**Thu 9/13/07**	**Wed 12/19/07**
Initial Design	**35 days**	**Thu 9/13/07**	**Wed 10/31/07**
WWTP Hydraulic Profile	5 days	Thu 9/13/07	Wed 9/19/07
Mechanical Design	20 days	Thu 9/13/07	Wed 10/10/07
Electrical Design	20 days	Thu 10/4/07	Wed 10/31/07
Civil Design	20 days	Thu 10/4/07	Wed 10/31/07
Architechtural and Landscape Design	10 days	Thu 10/4/07	Wed 10/17/07
Structural Design	10 days	Thu 10/18/07	Wed 10/31/07
Finalize 30% WWTP / 60% BCF Plan Sheets	**20 days**	**Thu 11/1/07**	**Wed 11/28/07**
Mechanical Plan Views	10 days	Thu 11/1/07	Wed 11/14/07
Mechanical Sections	10 days	Thu 11/8/07	Wed 11/21/07
Civil Site Plan	10 days	Thu 11/15/07	Wed 11/28/07
Process and Instrumentation Diagrams	5 days	Thu 11/22/07	Wed 11/28/07
Hydraulic Profile	5 days	Thu 11/15/07	Wed 11/21/07
Process Schematic	5 days	Thu 11/15/07	Wed 11/21/07
Electrical Single Line Diagram	5 days	Thu 11/22/07	Wed 11/28/07
Architectural Plan and Elevations	10 days	Thu 11/15/07	Wed 11/28/07
Landscape Plan	5 days	Thu 11/22/07	Wed 11/28/07
Prepare Review Drawings	5 days	Thu 11/22/07	Wed 11/28/07



BLUE - K/J Primary Responsibility **RED - CIty Primary Responsibility** **GREEN - Shared Responsibility**

Task Name	Duration	Start	Finish
60% BCF Specifications	5 days	Thu 11/22/07	Wed 11/28/07
30% WWTP / 60% BCF Opinion of Probable Construction Cost	5 days	Thu 11/29/07	Wed 12/5/07
City Review of 30% WWTP / 60% BCF Submittal	10 days	Thu 12/6/07	Wed 12/19/07
Environmental Permitting	**120 days**	**Thu 12/20/07**	**Wed 6/4/08**
Environmental Evaluation	20 days	Thu 12/20/07	Wed 1/16/08
Prepare NEPA Checklist (If Necessary for Federal Funding)	10 days	Thu 1/17/08	Wed 1/30/08
Prepare Shoreline Permit Application	10 days	Thu 12/20/07	Wed 1/2/08
Shoreline Permit Review	60 days	Thu 3/13/08	Wed 6/4/08
Other Environmental Permit Applications	40 days	Thu 3/13/08	Wed 5/7/08
60% WWTP / 90% BCF Design and Plans	**70 days**	**Thu 12/20/07**	**Wed 3/26/08**
Develop 60% WWTP / 90% BCF Design	30 days	Thu 12/20/07	Wed 1/30/08
Finalize 60% WWTP / 90% BCF Plan Sheets	**40 days**	**Thu 1/17/08**	**Wed 3/12/08**
Address Comments from Previous Submittal	35 days	Thu 1/17/08	Wed 3/5/08
Civil Grading Plan	5 days	Thu 1/31/08	Wed 2/6/08
Civil Piping Plan and Profiles	10 days	Thu 2/7/08	Wed 2/20/08
Demolition Drawings	5 days	Thu 2/21/08	Wed 2/27/08
Electrical Power Plan	5 days	Thu 2/14/08	Wed 2/20/08
Electrical Schedules, Diagrams and Schematics	20 days	Thu 2/14/08	Wed 3/12/08
Structural Plans and Sections	25 days	Thu 2/7/08	Wed 3/12/08
Prepare Review Drawings (Use for Permits)	8 days	Mon 3/3/08	Wed 3/12/08
60% WWTP / 90% BCF Specifications	10 days	Thu 2/28/08	Wed 3/12/08
60% WWTP / 90% BCF Opinion of Probable Construction Cost	10 days	Thu 2/28/08	Wed 3/12/08
City Review of 60% WWTP / 90% BCF Submittal	10 days	Thu 3/13/08	Wed 3/26/08
BCF Permit Review	**45 days**	**Thu 3/13/08**	**Wed 5/14/08**
DOE Review of WWTP Design Documents	45 days	Thu 3/13/08	Wed 5/14/08
City Planning, Building, & Fire Dept. Review of Design Docs	45 days	Thu 3/13/08	Wed 5/14/08
L&I Electrical Review of Design Documents	45 days	Thu 3/13/08	Wed 5/14/08
100% BCF Contract Documents	**60 days**	**Thu 3/13/08**	**Wed 6/4/08**
Prepare Div 1 Specification, Provide Input to Div 0	10 days	Thu 3/13/08	Wed 3/26/08
Incorporate Comments	40 days	Thu 3/27/08	Wed 5/21/08
Prepare Draft Bid Set	5 days	Thu 5/22/08	Wed 5/28/08
Final City Review	2 days	Thu 5/29/08	Fri 5/30/08
Prepare Final Bid Set	2 days	Mon 6/2/08	Tue 6/3/08
Arrange for Bid Set Printing	1 day	Wed 6/4/08	Wed 6/4/08
90% WWTP Design and Plans	**70 days**	**Thu 3/27/08**	**Wed 7/2/08**
Develop WWTP 90% Design	15 days	Thu 3/27/08	Wed 4/16/08
Finalize WWTP 90% Plan Sheets	**45 days**	**Thu 4/3/08**	**Wed 6/4/08**
Revise Sheets Developed During 60% Design	45 days	Thu 4/3/08	Wed 6/4/08
Mechanical Details	10 days	Thu 5/1/08	Wed 5/14/08
Civil Details	5 days	Thu 4/24/08	Wed 4/30/08
Electrical Details	10 days	Thu 5/22/08	Wed 6/4/08
Architectural Details	10 days	Thu 5/1/08	Wed 5/14/08
Structural Details	15 days	Thu 5/8/08	Wed 5/28/08
Prepare Review Drawings	5 days	Thu 5/29/08	Wed 6/4/08
90% WWTP Specifications	15 days	Thu 5/15/08	Wed 6/4/08
90% WWTP Opinion of Probable Construction Cost	10 days	Thu 5/22/08	Wed 6/4/08
City Review of 90% WWTP Submittal	20 days	Thu 6/5/08	Wed 7/2/08
WWTP Permit Review	**45 days**	**Thu 6/5/08**	**Wed 8/6/08**
DOE Review of WWTP Design Documents	45 days	Thu 6/5/08	Wed 8/6/08
City Planning, Building, & Fire Dept. Review of Design Docs	45 days	Thu 6/5/08	Wed 8/6/08
L&I Electrical Review of Design Documents	45 days	Thu 6/5/08	Wed 8/6/08
100% WWTP Contract Documents	**65 days**	**Thu 6/5/08**	**Wed 9/3/08**
Prepare Div 1 Specification, Provide Input to Div 0	10 days	Thu 6/5/08	Wed 6/18/08
Incorporate Comments	35 days	Thu 7/3/08	Wed 8/20/08
Prepare Draft Bid Set	5 days	Thu 8/21/08	Wed 8/27/08
Final City Review	2 days	Thu 8/28/08	Fri 8/29/08
Prepare Final Bid Set	2 days	Mon 9/1/08	Tue 9/2/08
Arrange for Bid Set Printing	1 day	Wed 9/3/08	Wed 9/3/08
Phase 2 Bidding Support	**105 days**	**Thu 6/5/08**	**Wed 10/29/08**
BCF Bidding Support	20 days	Thu 6/5/08	Wed 7/2/08
WWTP Bidding Support	40 days	Thu 9/4/08	Wed 10/29/08
Phase 3 Construction Support			



City of Arlington WWTP Upgrade Project

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Kennedy / Jenks Consultants