APPENDIX H

LPS HYDRAULIC MODEL

Low Pressure Sewer
Hydraulic Model Results and Data Summary

Project Name: _____ Date: _____

MUPB Project ID#: _____ Model Preparer Name: _____

or Preliminary Plan # _____ Preparer Email: _____

Software used: _____ Model Iteration/Submission #: _____

Hydraulic modeling method used: _____ (e.g. Rational (default) or Probability, etc.)

Description of Project:

Approx LF of force mains:

_____ <= 2"

_____ 3"

_____ 4"

_____ 6"

_____ >= 8"

Pump Make & Model: _____

_____ Total number of individual grinder pumps

_____ Number of grinder pumps operating simultaneously

Low-Pressure Force Main Connection Point: (Place "X" which applies and explain in text box)

_____ Existing manhole & gravity sewer line.

_____ Existing Wet Well. Name lift station ( )

_____ Connection to existing force main. This option requires the hydraulic model to include all connected lift stations, grinder pumps and force main diameters.

Explanation / Detail of selection made above:

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Scenario Description:

Describe each Scenario below and the purpose of each scenario in the model. Single phase developments will generally have a basic model with one Scenario and "Run(s)" to achieve flushing velocity for branch line(s). Multi-phased developments will have multiple parent scenarios corresponding to each phase of project. Multi-phased developments must include all phases for force main sizing. Very complex or complicated models should have separate attachments with details as appropriate.

Scenario Name:	Description / Purpose / Phasing / Interim Condition
Scenario 1 -------------	
Scenario 2 -------------	
Scenario 3 -------------	
Scenario 4 -------------	
Scenario 5 -------------	
Scenario 6 -------------	

Appendix H
DESIGN and CONSTRUCTION for
MUPB UTILITIES

Low Pressure Sewer
Hydraulic Model Results and Data Summary

Project Name: _____ Date: _____

MUPB Project ID#: _____ Model Preparer Name: _____

or Preliminary Plan # _____ Preparer Email: _____

Software used: _____ Model Iteration/Submission #: _____

Hydraulic modeling method used: _____ (e.g. Rational (default) or Probability, etc.)

Scenario Pipe Results:

Each Scenario generally will have critical pipe(s) (i.e. pipe(s) downstream of diameter changes, pipe(s) downstream of branch lines, etc.) Expand the table for model as required. Pipe name(s), pipe diameter(s) and force main velocity to be entered based upon hydraulic analysis results, provide pipe network with pipe & node labels.

Pipe Name	Pipe Size	Force Main Velocity				Maximum Velocity
		Scenario #1A	Scenario #1B	Scenario #1C	Scenario #1D	
	(inches)	(fps)	(fps)	(fps)	(fps)	
						0.00
						0.00
						0.00
						0.00
						0.00
						0.00
						0.00
						0.00
						0.00
						0.00
						0.00
						0.00
						0.00
						0.00
						0.00
						0.00

Low Pressure Sewer
Hydraulic Model Results and Data Summary

Project Name: _____ Date: _____

MUPB Project ID#: _____ Model Preparer Name: _____

or Preliminary Plan # _____ Preparer Email: _____

Software used: _____ Model Iteration/Submission #: _____

Hydraulic modeling method used: _____ (e.g. Rational (default) or Probability, etc.)

Scenario Pump Results:

Each Scenario generally will have critical pipe(s) (i.e. pipe(s) downstream of diameter changes, pipe(s) downstream of branch lines, etc.) Expand the table for model as required. Pipe name(s), pipe diameter(s) and force main velocity to be entered based upon hydraulic analysis results, provide pipe network with pipe & node labels.

Lot Number	Pump Elevation	Grinder Pump Flow Rate (gpm)			
		Scenario #1A	Scenario #1B	Scenario #1C	Scenario #1D

Closing Statement:

Submitter should provide any appropriate closing statement here, such as opinion of adequate velocity, force main diameter(s) and grinder pump selections.