APPENDIX F

CONSTRUCTION PLAN CHECKLIST

Checklist for Construction Plans

PROJECT NAME:_____ ID#_____

Note: This checklist is provided for the convenience of design firms, so that the most common errors and omissions may be avoided. Refer to MUPB's DESIGN and CONSTRUCTION MANUAL for MUPB UTILITIES for complete discussion of design requirements and parameters. ***PLEASE DO NOT INCLUDE THIS FORM WITH YOUR APPLICATION.***

DATES: 1st Sub._____ 2nd Sub. _____ 3rd Sub. _____

Cover Sheet and General	**1st sub.**	**2nd sub.**	**3rd sub.**
MUPB Project ID	Blank		
Engineer's Seal, Signiture and Date			
Accurate Sheet Index			
MUPB revision block, every applicable sheet			
MUPB Standard Notes & Details			
MUPB Standard Details included in plan set			
Standard Details provided are current			
Design follows applicable basis of design, preliminary plat, and/or master plans			
Facilities sized correctly			
Existing conditions and utilities shown			
Coordinate system and vertical datum identified			
CAD files for use in MUPB GIS	Required	Revisions Only	

Plan View - General	**1st sub.**	**2nd sub.**	**3rd sub.**
North arrow			
Adequate separation between water and sanitary sewer, and with other utilities			
Pipes a minimum 10' from all permanent structures			
Service connection for each building (water, sewer, storm water or gas)			
Easements shown for utilities outside of public right of way			
Easements unencumbered and accessable for traverse			
Landscaping outside of easements			
Access to utilities provided to adjoining properties			

Water - Plan View	1st sub.	2nd sub.	3rd sub.
Separation from sewer, curb, drains, and structures			
Dead-end line less than 500' for 8" and larger, 300' for 6"			
Adequate hydrant coverage to all structures			
All permanent terminations by means of a hydrant			
Air release valves specified at significant high points			
Hydrants at appropriate spacing and at substantial high and low points			
Tee, valve and blow-off assembly provided where future extension needed			
Valve between service connection and blow-off valve in temporary termination			
Valving at appropriate intervals and configurations			
Fire service independent with anchored branch valve (6" min.) at main			
Meter pits 5' from driveway apron and fire hydrants			
Load letter and meter sizing; coordinate plumbing concerns			

Sewer - Plan View	1st sub.	2nd sub.	3rd sub.
Manhole placement conforms with placement requirement			
Manholes provided where future extension are planned or anticipated			
Minimum of 90° between inlet and outlet pipes at manhole(s)			
Manholes placed according to maximum length per pipe diameter			
Adequate angle to provide separation between pipe penetrations at manhole			

Sewer - Profile View	1st sub.	2nd sub.	3rd sub.
All invert pipe information shown for each manhole			
Invert elevation of existing sewer based upon field survey			
Length, slope & diameter of sewer shown, matching plan view			
Minimum slopes provided based upon pipe diameter			
Cover on pipe per requirements			
Proper cover and type of creek crossing(s)			
Drop across manholes as required			
Maximum invert difference at manhole is less than 0.5 foot			
Rim elevation is at minimum of 1 foot above undeveloped land			
Water-tight manhole frame & lid in areas below 100 year flood elevation			
Vents provided were necessary			
Lining of manholes specified where necessary			
Specify type of pipe for existing & proposed sewers			
Diameter of manholes specified			

Sanitary Laterals	1st sub.	2nd sub.	3rd sub.
Laterals enter sewer at 90° & from 10 o'clock to 2 o'clock			
Laterals end 1 foot beyond easement or R-O-W			
Cleanout provided at termination of lateral			
Pretreatment devices specified per requirements			