

CHECKLIST FOR DRAINAGE IMPACT STUDY
PARISH OF LIVINGSTON

SUBDIVISION NAME: _____ REVIEWED BY: _____

LOCATION: SECTION(S) _____, TOWNSHIP _____ SOUTH, RANGE _____ EAST

OWNER/DEVELOPER /SUBDIVIDER (NAME, ADDRESS & PHONE NUMBERS) _____

 _____ DATE: _____

<u>ITEM</u>	<u>YES</u>	<u>NO</u>	<u>N/A</u>
DRAINAGE DISTRICT APPROVAL	_____	_____	_____
A. SITE LOCATION AND DESCRIPTION:			
1. <u>LOCATION</u>			
Vicinity Map	_____	_____	_____
Township and Range	_____	_____	_____
Identify Adjacent Developments	_____	_____	_____
Identify Major Drainage Outfalls	_____	_____	_____
Identify Major Streets and Highways	_____	_____	_____
2. <u>DESCRIPTION</u>			
Describe Predominate Existing and Future Landuse within Project Watershed	_____	_____	_____
Describe the Proposed Development	_____	_____	_____
Describe Existing Vegetative Cover	_____	_____	_____
Describe Soil Type	_____	_____	_____
Describe Site Topography	_____	_____	_____
Provide Estimate of Both Pre and Post Development Impervious Area	_____	_____	_____
B. WATERSHED MAP			
1. <u>MAP</u>			
Source is latest USGS 7.5 Minute Quadrangle Map or Better	_____	_____	_____
Scale 1=500 feet or less unless otherwise approved	_____	_____	_____

YES **NO** **N/A**

ITEM

2. **INFORMATION**

Delineate Drainage Boundaries	_____	_____	_____
Identify Existing Channels, Ditches			
Natural Drains	_____	_____	_____
Identify Existing Drainage Structures	_____	_____	_____
Show Peak 10 Year Runoff Rates at			
Entry and Exit Points	_____	_____	_____
Show Cross-Section Locations	_____	_____	_____

C. HYDROLOGIC DESIGN

Existing (Pre-Development) Flow Rates (10 Year)	_____	_____	_____
Existing (Pre-Development) Flow Rates (100 Year)	_____	_____	_____
Future (Post-Development) Flow Rates (10 Year)	_____	_____	_____
Future (Post-Development) Flow Rates (100 Year)	_____	_____	_____

D. HYDRAULIC CAPACITIES

1. **ON-SITE CAPACITIES**

Determine Capacity of Existing Site Drainage			
Facilities including: Ditches, Canals,			
Culverts, Bridges...	_____	_____	_____
Determine Required Size, Type and Capacity of			
Major Proposed Drainage Facilities	_____	_____	_____

2. **OFF-SITE CAPACITIES**

Determine Downstream Capacities of			
Receiving Outfall including: Ditches, Canals,			
Culverts, etc.	_____	_____	_____
Inventory Downstream Structures			
Including Size and Type	_____	_____	_____
Provide Downstream Structure Inverts	_____	_____	_____
Provide Downstream Structure Overtopping			
Elevations	_____	_____	_____
Provide Channel Cross-Sections at Upstream			
Limits of Proposed Development (Show			
Location of Cross-Section on Watershed Map)	_____	_____	_____
Provide Channel Cross-Sections at Downstream			
Limits of Proposed Development (Show			
Location of Cross-Section on Watershed Map)	_____	_____	_____
Provide Intermediate Downstream Cross-Sections			
To adequately define existing outfall (Show			
Location of Cross-Section on Watershed Map)	_____	_____	_____

YES **NO** **N/A**

ITEM

E. POND

- 1. Free Flow Condition Analyzed _____
- 2. Tail Water Condition Analyzed _____
- 3. Minimum of 0.5' freeboard for 100 yr (subdivisions) _____
- 4. Adequate pond storage for calculated pond volume _____
- 5. Is pond outfall pipe 15" or larger? If not, do _____
they have other control structure to prevent clogging? _____

F. SPECIAL SITE CONDITIONS

- 1. DESCRIBE SPECIAL SITE CONDITIONS SUCH AS:
 - Special Flood Hazard Areas _____
 - Regulatory Floodway _____
 - Fill Placement Location and Mitigation
Requirements _____
 - Churches, Schools, Cemeteries _____
 - Landfills and Hazardous Waste Sites _____
 - Parks _____

G. STUDY CONCLUSIONS AND RECOMMENDATIONS

- Clearly Present Results and Conclusions of the Study _____
- Provide, Practical and Functional Recommendations
To Offset any Adverse Drainage Impacts
Associated with the Proposed Development _____

**H. EROSION AND SEDIMENT CONTROL PLAN
(required for developments 5 Acres or more)**

- Natural Resources Map
*(soil map with description of vegetative cover and any
protected resources on site is acceptable)* _____

I. HEC RAS WATER SURFACE PROFILE (IF NEEDED)

- 10 and 100 yr Pre and Post Sections _____
- Graphical Sections Included _____
- Numerical Input Data Included _____
- Sections Locations Shown on Map _____
- 100 yr Post Sections Account for increase in Flow
(10 yr Pre Sections Can Account for 10 yr
Decrease, if any) _____
- Post Sections Show Fill From Development _____
- Sections Extend Out to Contain Entire Flow Area _____

Inundated Areas Located out of Channel which are
 Lower than Corresponding Top Bank Considered
 Ineffective Flow Area (Unless Double Channel)
 Double Channel Show Upstream and Downstream
 Intersection Points with Main Channel
 Inundated Areas of Double Channel Section
 Lower Than the Downstream Intersection Elevation
 Considered Ineffective

_____	_____	_____
_____	_____	_____
_____	_____	_____

ITEM

Pond Considered as Ineffective Flow
 Sections Locations Shown on Map

_____	_____	_____
_____	_____	_____

J. SIGNATURE BLOCKS

Planning Director
 Review Engineer

_____	_____	_____
_____	_____	_____

COMMENTS: _____
