

DEPARTMENT OF WATER AND SEWER

1526 East Forrest Ave. Suite 400 East Point, Georgia 30344 FAX (404) 270-7215 www.eastpointcity.org

WASTEWATER REVIEW CHECKLIST

Project Name:		Tax ID #:
Project Number:	Date:	
Reviewed By:		Telephone:
Diagon address all items marked with an "V"		

Please address all items marked with an "X"

NOTICE: ANY DEVIATIONS FROM THESE CITY STANDARDS SHALL BE PREAPPROVED BY THE DEPARTMENT OF WATER AND SEWER.

General Requirements

Include the following general notes on the plan:

- A. All wastewater pipe construction shown on these plans must conform to Fulton County's Standards and specifications, including Sanitary Sewer Regulations latest copy.
- B. All wastewater easements must be dressed and grassed to control erosion prior to acceptance. Trees shall not be planted in the permanent easement area.
- C. As-built drawings and maintenance bond(s) must be submitted are required prior to inspection and acceptance including the CCTV inspection CD and CAD files.
- D. Neoprene couplings with stainless steel bands and shear rings are required for joining different types of sanitary sewer pipes concrete required where applicable.
- E. Pools shall not drain into wastewater pipe systems.
- F. Low pressure air testing required for all wastewater pipe systems. This test must meet all requirements as outlined in ASTM C82880 or current revision. An East Point Inspector must be present during testing.
- G. Issuance of this permit does not in any way imply that wastewater taps for building permits will be issued. Contact the Department of Water & Sewer Department for further information.
- H. Contractor to field verifies the locations and invert elevations of wastewater pipes for a connection to existing wastewater systems.
- I. Notify inspector 24-hours prior to construction.
- J. For all projects utilizing individual onsite waste water systems design and provisions shall be in conformance with Fulton County Health Department regulations.
- K. Eight inch (8") or larger pipe lines shall be TV inspected. A DVD and written inspection log certified by a Georgia Registered Engineer shall be provided when as-builts are submitted.
- L. Maximum distance between manholes is 400 feet.
- M. USF 7635 Box required for cleanouts in paved area.
- N. Compaction of the back fill of all trenches shall be compacted to 95% of the proctor density. Backfill material shall be free from roots, stumps, or other foreign debris, and shall be placed at or near optimum

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moisture. Correction of any trench settlement within a year from the date of approval will be the responsibility of the contractor.

- O. Sanitary sewer laterals should be marked with 4"x4"post with min. 4' above ground. The top 1' should be painted green. Each lateral is to be brought to the ground surface in accordance with Fulton County Standard 909.
- P. All required off site easements shall be dedicated to City of East Point prior to LDP permitting. All public onsite easements for other than single-family residential projects shall be dedicated to City of East as part of the as-built approval.
- Q. For all projects containing PVC wastewater pipes, also include the following notes: (see attached condition for PVC).
 - 1. Pipe shall be ASTM3034, SDR35 in 12.5 foot laying lengths with elastomeric sealed joints in accordance with ASTMD3212.
 - 2. Pipe bedding shall be #57, sharp, angular, crushed stone. Bedding shall extend a minimum of 4" below the pipe and extend to the top of the pipe. The bedding shall be compacted by ``slicing with a flaw shovel". The width of the ditch at the top of the pipe shall be a maximum of 3 feet.
 - 3. Initial backfill: After bedding, complete initial backfill with #57 stone. If no rock is encountered, initial backfill shall extend to a height 6" above of the top of the pipe, otherwise initial backfill shall extend to 12" above the top of the pipe.
 - 4. Fittings for lateral connections shall be 45° WYES and bends. Provide PVC pipe stoppers for each lateral. Provide special water tight connections at manholes and transitions to ductile iron pipe as recommended by the pipe manufacturer.
 - 5. After installation a deflection test is required. Initial deflection shall be limited to 3% of the undeflected diameter. A second test shall be made at least 8 months after the installation but before final acceptance. At that time deflection shall be limited to 5% of the undeflected diameter.

Wastewater Design Requirements

d. Is in a fill area

1. Developer shall network gravity pipeline through site to serve upstream property owners. This will be at the Developer's expense. Also, proposed depths in excess of 24' shall be pre-approved by the Engineering Section of the Water & Sewer Department.
2. Plan and profile of all existing and proposed wastewater pipes showing all utility with crossings
3. Manhole inverts shall have a minimum 2/10 of a foot (.20') drop across the manhole.
4. Minimum slopes for wastewater pipes are as follows: 0.7% on 8" lines 0.5% on 10" lines 0.4% on 12" lines 0.3% on 15" lines 0.25% on 18" lines 21" & larger sizes, maintain 2 feet/sec. at 1/4 capacity
5. D.I.P. wastewater is required where line:
a. Is under less than 4 feet of cover in unpaved areas
b. Is under less than 6 feet of cover in paved areas
c. Crosses over storm sewer or under within 1 foot

e. Is under/ has more than 20' (feet), 20 feet of cover minimum class 51 D.I.P. will be required.

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			Form F2
f.	D.I.P. may be required for other of	conditions	
6. S	tate size, material type, percent g	rade, and length of all pipes	
	Vater Resources utility encroachmontact East Point Water Resource	•	permit required before L.D.P. will be issued
8. A	n outside drop is required at a ma	inhole when the following con	ditions exist:
	INCOMING PIPE SIZE (inches)	DROP (in inches)	_
	8"	27"	
	10"	27"	
	12"	30"	
	15"	39"	
	10"	41"	

9. Where an outside drop exceeds ten (10) feet, provide an intermediate cleanout (a tee section	
	ın)

10 Different size pipes require the crest crown of	anch to be aligned

- __11. Maximum distance between manholes is 400 feet.
- ____12. Concrete collars on waste water pipe lines are required when the slope is greater than 20 percent of conditions.
- ____13. Provide safety platforms within manholes, in excess of 16' deep. Spacing shall be:

MANHOLE DEPTH (feet)	PLATFORM SPACING (feet)	
16'	8' (1 platform)	
17-23'	1 platform spaced in center of manhole depth	
24'	8' (2 platforms)	

Manholes in excess of 24' shall be pre-approved by the Engineering Section, on an individual basis, and shall have platforms spaced every 8 to 10 feet.
14. For all wastewater pipes above the ground, wrapped and coated steal pipe or D.I.P. shall be used. All pipe shall be encased in steel and field welded.
15. For combined drainage and wastewater pipe easements, the width shall be 30' (feet). Provide additional 5 of combined easement when any pipe is 48"or larger. The wastewater smaller pipes shall be 10' (feet) from one side, while the drainage pipe will be 10' (feet) from the other side. All fences or other barriers crossing the Wastewater easement will be installed with a 12' (feet) locked double gate so that East Point can have access.
16. Provide reflection angles for all manholes. Minimum angle between influent and effluent waste water line at a man hole is 90 degrees.
17. Laterals shall be provided for each lot, building, and unit (townhomes/condos). Laterals to serve a single lot or building may extend a maximum of 125 linear feet, off site. Laterals must be 6" pipe at a minimum 1% slope and indicated by station number or numbers. All laterals from street wastewater lines must

_18. When laterals connect to manholes indicate invert in elevation on wastewater profiles.

__19. If laterals cross storm sewer show location on storm sewer profile.

extend at least ten feet behind the back of curbing.

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20.			County details: 202, 5 03A, 905, 906, 907, ar		
21.	Provide 5- foot conto feet beyond the proje		ohic mapping from aer /.	ial or other sources fo	or a minimum of 400
22.	Extend wastewater pwastewater regulation		djacent properties for f	uture development, a	s per sanitary sewer
23.	No more than 4 conr	nections are allowed	d per manhole. Provide	e 12" minimum betwe	en pipe penetrations.
24.	All service lines con	necting to an existin	g wastewater line will	be made with manho	les.
25.	Georgia registered e structural calculation	ngineer. Concrete s of flood resistance	de calculations for 25- collars required at end e, certified stamped ar relocities structural des	ls of aerial wastewatend signed by a Georgi	er crossing. Provide ia Registered Engineer.
26.	Riprap shall be place lines cross and shall		of the excavation at all f bank.	creeks crossings wh	ere wastewater pipe
27.	flood plain or high wa	ater area, they shall	ight of ways shall be tw have tight covers and nholes flush with the gr	extend above the ter	n year floodplain level:
28.	Grease trap, oil inter	ceptor, pretreatmer	nt, etc., required.		
29.			pove which construction		wastewater lines will be
30.	buffer variance), the distance from the top	location of the water of bank of the cree	erway shall be certified	by a registered Land all manholes. All cre-	ek banks within ten feet
31.	31. Gravity Flow Design Calculations shall include the following, and are to be submitted with construction plans, prior to approval. This calculation report shall have the seal and signature of a Georgia Registered Engineer.				
	a. A population projection of the area served and proper sizing to include sub-basins.			S.	
	b. Minimum 2 fps flowing one half full on pipes, 18" and smaller. (Minimum pipe size is 8"). Pipes larger than 18" shall be based upon 2 fps flowing two thirds full.				
	c. Peaking factors (see attached sheet, using 100 GPD per person.)d. Use "Proposed Land Use" Chart below for residential commercial projects. (In GPD) PROPOSED LAND USE:				
				PD)	
	Office	_(175)	Church Church	Seats(5)	
	Retail Sales	SF(.1)	Hospital	Beds(20	00)
	Apts.(1 or 2 Bdrms)_	Units(240) Nursir	g Homes	_ Beds(100)
	Singlefamily	Lots(240)	Elderly Housi	ngRes. Unit	s (125)
	industriai	Employees(25)	Laundry	IVIachines(400)	
	Restaurant	Seats (30)	Schools	Persons(25)	
	Warehouse	(25)	Hotel/Motel Other	Kooms(100)_	

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TOTAL	PROPERTY REQUIREMENT	

For carwashes, the Developer shall provide manufacturer specifications to verify flow calculations.

e. Provide calculations verifying pipe slopes in excess of 30% will not cause flooding conditions within downstream man holes (energy gradient).

(GPD)

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