CITY OF NEW YORK

DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF WATER AND SEWER OPERATIONS **ENGINEERING**

AMENDED DRAINAGE PLAN

CI-126C

THIS	DRAINAGE	PLAN	AMENDS	PREVIOUSLY	DESIGNED/ADOPTED	DRAINAGE	PLAN #	#

SHOWING LOCATION, SIZES AND GRADES OF SEWERS IN AREA BOUNDED APPROXIMATELY BY(SEGMENT	8
WILL ADJUST VERTICALLY AND HORIZONTALLY TO ACOMODATE UP TO 5 LINES OF TEXT)	

BOROUGH OF

APPROVED FOR THE DEPARTMENT OF ENVIRONMENTAL PROTECTION

This plan was prepared by the Commissioner of The Department of Environmental Protection under Section 683 of the New York City Charter

APPROVED FOR THE DEPARTMENT OF HEALTH

CHIEF, DIVISION OF REVIEW AND CONSTRUCTION COMPLIANCE	DATE	P.E.	
DIVISION OF REVIEW AND CONSTRUCTION COMPLIANCE		DIRECTOR,	DATE
P.E.		BUREAU OF PUBLIC HEALTH ENGINEERING	
DIRECTOR OF ENGINEERING BUREAU OF WATER AND SEWER OPERATIONS	DATE		
BOILERO OF WATER AND SEVER OF ENAMEDING			
P.E.		APPROVED FOR THE DEPARTMENT OF CITY PLANNING	
DEPUTY COMMISSIONER	DATE		
BUREAU OF WATER AND SEWER OPERATIONS			
COMMISSIONER	DATE	DIRECTOR OF CITY PLANNING	DATE
DEPARTMENT OF ENVIRONMENTAL PROTECTION	0,1112		
OFWED CVMDALC			
SEWER SYMBOLS BULKHEAD LINE	U.S.	BULKHEAD	
BOUNDARIES OF DRAINAGE AREA	***************************************	-0 0 0	
SEWERS HEREWITH ESTABLISHED:		Account to the second s	
SANITARY STORM WATER	10"	+10.60 15" +10.60 15"	
HIGH LEVEL STORM WATER COMBINED	12" 15"		
FORCE MAIN	-2.00 12"S	20"F.M. +20.20 +10.60 15"S	
BUILT (S, SW, HLS, C)			
SEWERS PREVIOUSLY ESTABLISHED: SANITARY	(10"S) (12"SW)	(+10.60) (15"S) (+10.60) (15"SW)	
STORM WATER HIGH LEVEL STORM WATER	(12"HLS) (15"C)	(+10.60) (15"HLS) (+10.60) (15"C)	
COMBINED FORCE MAIN	(-2.00) (12"SW)	(20"F.M.) (+20.00) (+10.60) (15"SW)	
BUILT (S, SW, HLS, C)		Andrewson American Control of the Co	
FUTURE SEWERS NOT YET ESTABLISHED SANITARY			
STORM HIGH LEVEL STORM WATER		0 ·	
COMBINED	[12"C]	[+10.60] [15"C]	
EXISTING SEWERS NEVER LEGALIZED (S, SW, HLS, C)	(12"3) (+16	9-60T (15-9T	
EXISTING SEWERS TO BE ABANDONED	+10.00	15"	
DEAD END	-		
SEWER SUMMIT	12"	15" 24"	
UNIFORM SEWER GRADIENT	+	10.61,+5.20	
DROP MANHOLE	***************************************	ଖ	
SEWER JUNCTIONS: INTERSECTING SEWERS HAVE 15" +2.34 24" +2.34 24"	INTERSECTING SEV VARIOUS INNER TO		
RAILROAD			
PROPOSED DRAINAGE EASEMENT/CORRIDOR		•	
ADOPTED STREET			
RECORD STREET			
STEP STREET STREET TO BE DEMAPPED IN FUTURE			
PARK	77777		
		Top Width	
		TY .	
TYPICAL STREAM CROSS SECTION		X	
	Bottom Width -	Sidesiope: X:Y	
		(60"SW)	
PARALLEL RELIEF SEWER		y	
PARALLEL RELIEF SEWER		\R⊷ 	
FOR SEWERS OTHER THAN CIRCLII AR SECTION SHOW THE WIRTH HEIGHT AN	D EOLIIVALENT CIR	C=	
FOR SEWERS OTHER THAN CIRCULAR SECTION, SHOW THE WIDTH, HEIGHT AN SIZE IN EACH SEWER. SHOW THE WIDTH FIRST IN THIS MANNER:	D EGGIVALENT OIN	DOLAN	
FLAT TOP SEWER 10'-6"W X 8'-0"H (128" Ø) ELLIPTICAL SEWER 76"W X 48"H (60"Ø)			
ALSO SHOW THE TYPICAL CROSS SECTIONS IN THE COMPUTATION SHEETS. STREET GRADE ELEVATION			
ADOPTED 12.34 EXISTING (12.34)			
LOWER ELEVATION AT GRADE SEPARATION 1284 TAX BLOCK NUMBER -1234-			
ALL SEWER ELEVATIONS SHOWN ARE INNER TOP ELEVATIONS A = TOTAL TRIBUTARY AREA IN ACRES			
A _{HL} =TOTAL TRIBUTARY AREA IN ACRES FOR HIGH LEVEL SEWERS (A _{HL} =0.5A)			
R = RAINFALL INTENSITY IN in/hr COMPUTED BY THE FORMULA $R = \frac{125}{T+15}$ T= t + e			
t = ACCUMULATIVE SEWER TRAVEL TIME IN MINUTES BETWEEN MANHOLES e = INITIAL ENTRANCE TIME IN MINUTES			
C = COEFFICIENT OF RUNOFF			

WARNING IT IS A VIOLATION OF SECTION 7209.2 OF THE NEW YORK

UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER IN ANY WAY PLANS, SPECIFICATION,

STATE EDUCATION LAW FOR ANY PERSON, UNLESS ACTING

PLATS OR REPORTS TO WHICH THE SEAL OF A PROFESSIONAL ENGINEER HAS BEEN APPLIED. IF AN ITEM BEARING THE SEAL

OF A PROFESSIONAL ENGINEER IS ALTERED, THE ALTERING

ENGINEER SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE, THE

DATE, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

DESIGNED_

CHECKED_

PROJECT ENGINEER_



NOTES

THE STORM AND COMBINED SEWERS SHOWN ON THIS DRAINAGE PLAN ARE INTENDED TO HAVE A CAPACITY ADEQUATE TO THE REASONABLE NEEDS OF THE DRAINAGE DISTRICT FOR A LIMITED PERIOD AND ARE NOT INTENDED TO BE OF SUFFICIENT CAPACITY TO IMMEDIATELY REMOVE STORM WATER WHEN THE RATE OF PRECIPITATION EXCEEDS AN INTENSITY OF "R" INCHES PER HOUR WHICH IS 1.75" PER HOUR FOR A STORM OF FIVE YEAR RETURN FREQUENCY CONTINUING THROUGH "T" MINUTES, "C" PERCENT OF WHICH WILL REACH THE SEWERS WITHIN THAT TIME. THE CAPACITY OF THE SYSTEM HAS BEEN ESTABLISHED FOR THE PURPOSE OF KEEPING THE COST WITHIN LIMITS WHICH ARE DEEMED ECONOMICALLY REASONABLE.

THE CITY OF NEW YORK WILL NOT BE RESPONSIBLE FOR DAMAGES BY SURCHARGING IN ANY CASE IN WHICH THE INVERTELEVATION OF THE HOUSE CONNECTION AT THE CURB LINE IS LESS THAN THE HYDRAULIC GRADE OF ANY SEWER THROUGH WHICH IT OUTLETS.

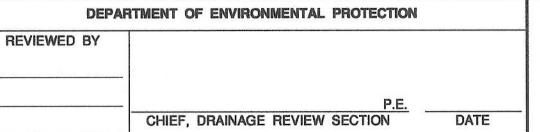
THE CITY OF NEW YORK ASSUMES NO LIABILITY FOR DAMAGES DUE TO SURCHARGING OF "BUILT SEWERS PREVIOUSLY AND HEREWITH ESTABLISHED" WHICH MAY OCCUR BEFORE THE FUTURE ESTABLISHED OUTLET SEWERS, DESIGNED ON THE BASIS OF ESTABLISHED ZONING HAVE BEEN BUILT. UNTIL THE FUTURE OUTLET SEWERS ARE ESTABLISHED AND BUILT, ALLOWABLE FLOWS INTO THE "HEREWITH ESTABLISHED SEWERS" ARE LIMITED TO THE FLOW VALUES WHICH THE EXISTING OUTLET SEWERS WERE DESIGNED TO ACCEPT.

SEWER DATUM PLANE WHICH IS _____ FEET ABOVE MEAN SEA THE ELEVATIONS SHOWN ON THIS MAP REFER TO THE BOROUGH OF LEVEL AS ESTABLISHED BY THE UNITED STATES COAST AND GEODETIC SURVEY AT SANDY HOOK, NEW JERSEY.

Date Prepared: March 1st, 9999

Consultant's Logo here Consultant's Company Name Here Company Address here PROJECT MANAGER
CONSULTANT'S COMPANY NAME





CI-126C