

SANITARY SEWER CHART

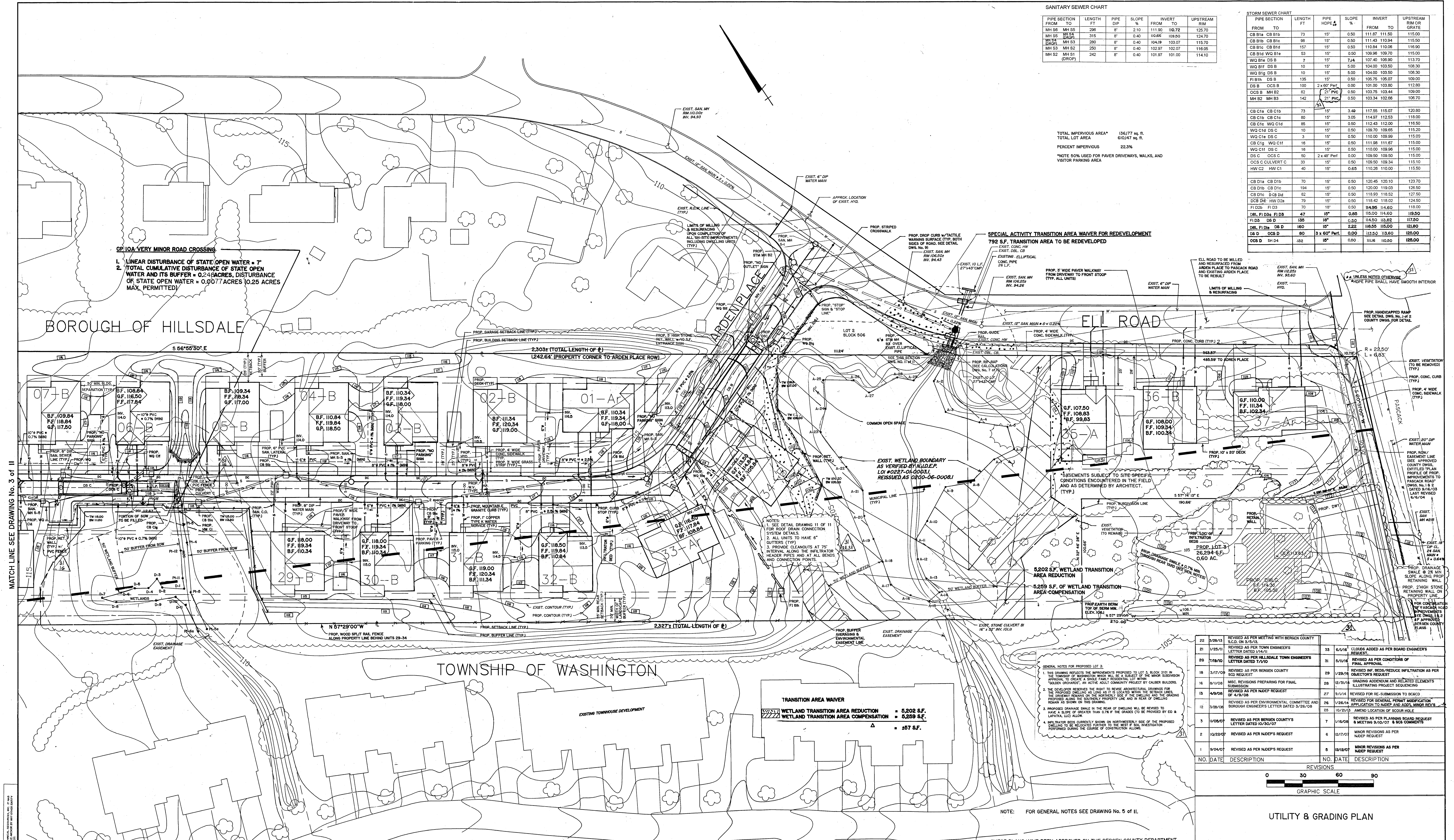
PIPE SECTION FROM TO	LENGTH FT	PIPE DIA	SLOPE %	INVERT FROM	UPSTREAM RM
MH S6 MH S5	296	8"	2.10	111.90	110.72
MH S5 MH S4	315	8"	0.40	109.66	109.50
MH S4 MH S3	280	8"	0.40	104.19	103.07
MH S3 MH S2	295	8"	0.40	102.97	102.07
MH S2 MH S1 (DROPP)	242	8"	0.40	101.97	101.00

STORM SEWER CHART

PIPE SECTION FROM TO	LENGTH FT	PIPE DIA	SLOPE %	INVERT FROM	UPSTREAM RM OR GRATE
CB B1a CB B1b	73	15"	0.50	111.87	111.50
CB B1b CB B1c	98	15"	0.50	111.43	110.94
CB B1c CB B1d	157	15"	0.50	110.84	110.06
CB B1d CB B1e	53	15"	0.50	109.96	109.70
CB B1e CB B1f	7	15"	7.14	107.40	106.90
CB B1f CB B1g	10	15"	0.00	104.00	103.50
CB B1g CB B1h	135	15"	0.50	105.75	105.07
CB B1h CB B1i	100	2 x 60" Perf	0.00	101.00	103.80
CB B1i CB B1j	62	21" PVC	0.50	103.75	103.44
CB B1j CB B1k	142	21" PVC	0.50	103.34	102.68
CB C1a CB C1b	73	15"	3.40	117.55	115.07
CB C1b CB C1c	80	15"	3.05	114.97	112.53
CB C1c CB C1d	85	15"	0.50	112.43	112.00
CB C1d CB C1e	10	15"	0.50	109.70	109.55
CB C1e CB C1f	3	15"	0.50	110.00	109.99
CB C1f CB C1g	16	15"	0.50	111.98	111.87
CB C1g CB C1h	16	15"	0.50	110.00	109.96
CB C1h CB C1i	50	2 x 48" Perf	0.00	109.50	109.50
CB C1i CB C1j	33	15"	0.50	109.50	109.34
CB C1j CB C1k	40	15"	0.65	110.26	110.00
CB D1a CB D1b	70	15"	0.50	120.45	120.10
CB D1b CB D1c	104	15"	0.50	120.00	119.03
CB D1c CB D1d	92	15"	0.50	118.93	118.52
CB D1d CB D1e	79	15"	0.50	118.42	118.02
CB D1e CB D1f	70	15"	0.50	118.42	118.00
CB D1f CB D1g	70	15"	0.50	118.42	118.00
CB D1g CB D1h	47	10"	0.85	115.00	114.60
CB D1h CB D1i	185	10"	0.50	114.50	113.22
CB D1i CB D1j	185	10"	0.50	113.50	112.80
CB D1j CB D1k	80	3 x 60" Perf	0.00	113.50	113.60
CB D1k CB D1l	132	15"	0.50	111.16	110.50

TOTAL IMPERVIOUS AREA* 136,777 sq. ft.
TOTAL LOT AREA 610,477 sq. ft.
PERCENT IMPERVIOUS 22.3%

*NOTE: 50% USED FOR PAVER DRIVEWAYS, WALKS, AND VEHICLE PARKING AREAS.



MATCH LINE SEE DRAWING No. 3 of 11

NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION
22	5/28/13	REVISED AS PER MEETING WITH BERGEN COUNTY S.C.D. ON 5/28/13	33	6/11/16	CLOUDS ADDED AS PER BOARD ENGINEER'S REQUEST
21	1/25/11	REVISED AS PER TOWNSHIP ENGINEERS LETTER DATED 1/24/11	31	5/11/16	REVISED AS PER CONDITIONS OF FINAL APPROVAL
20	7/19/10	REVISED AS PER HILLSDALE TOWNSHIP ENGINEERS LETTER DATED 7/1/10	29	1/29/16	REVISED INF. BEDS/REDUCE RELATIONS AS PER OBJECTOR'S REQUEST
19	5/17/10	REVISED AS PER BERGEN COUNTY SCD REQUEST	28	2/23/16	GRADING REVISIONS AND RELATED ELEMENTS ILLUSTRATING PROJECT SEQUENCING
18	5/11/10	REVISIONS PREPARING FOR FINAL SUBMISSION	27	9/11/14	REVISED FOR RE-SUBMISSION TO BERGEN COUNTY
17	4/9/10	REVISED AS PER NDEP REQUEST OF 4/9/10	26	1/26/14	REVISED FOR GENERAL PERMIT MODIFICATION APPLICATION TO NDEP AND ADD MINOR REVISIONS
16	3/25/10	REVISED AS PER ENVIRONMENTAL COMMITTEE AND BERGEN ENGINEER'S LETTER DATED 3/26/10	25	10/21/13	AMEND LOCATION OF SCOUR HOLE
15	10/15/07	REVISED AS PER BERGEN COUNTY SCD REQUEST DATED 10/15/07	7	1/16/08	REVISED AS PER PLANNING BOARD REQUEST & MEETING 9/10/07 & SCD COMMENTS
14	10/23/07	REVISED AS PER NDEP'S REQUEST	6	12/17/07	MINOR REVISIONS AS PER NDEP REQUEST
13	9/24/07	REVISED AS PER NDEP'S REQUEST	5	12/18/07	MINOR REVISIONS AS PER NDEP REQUEST

UTILITY & GRADING PLAN

GOLDEN ORCHARDS
AN ACTIVE ADULT COMMUNITY
LOT 1, BLOCK 506, BOROUGH OF HILLSDALE
LOT 3 & 7, BLOCK 2101, TOWNSHIP OF WASHINGTON

BERGEN COUNTY
Drawn by: V.L.D./Y.M. Scale: 1" = 30' Date: 8/10/07 Dwg. No.: 2 of 11 Proj. No.: 00-058.6

ENTEC
Engineering & Technical Resources, Inc.
Consulting Engineers Certificate # 246247975200
535 High Mountain Road, No. Haledon, N.J. 07508 tel: (973) 636-9223

ALEX J. ZEPONI PROFESSIONAL ENGINEER, N.J. LIC. No. 26723

NOTE: ALL CONSTRUCTION DESIGN OF FOUNDATIONS, SUPPORTS, WALLS, STRUCTURAL ELEMENTS, ETC. OF THIS PLANNING DESIGN TO BE ANALYZED, PREPARED, AND WITNESSED AS NECESSARY, BY A NEW JERSEY STATE LICENSED PROFESSIONAL ENGINEER.

PROP. LAWN AREAS WILL BE GRADED WITH LIGHT WEIGHT CONSTRUCTION EQUIPMENT.

THIS PLAN HAS BEEN APPROVED BY THE TOWNSHIP OF WASHINGTON ENGINEER

SIGNATURE _____ DATE _____

THIS PLAN HAS BEEN APPROVED BY THE TOWNSHIP OF WASHINGTON PLANNING BOARD

CHAIRMAN _____ DATE _____

SECRETARY _____ DATE _____

THESE PLANS HAVE BEEN APPROVED BY THE BERGEN COUNTY DEPARTMENT OF PLANNING & ECONOMIC DEVELOPMENT

THIS PLAN HAS BEEN APPROVED BY THE BOROUGH OF HILLSDALE ENGINEER

SIGNATURE _____ DATE _____

THIS PLAN HAS BEEN APPROVED BY THE BOROUGH OF HILLSDALE PLANNING BOARD

CHAIRMAN _____ DATE _____

SECRETARY _____ DATE _____

I HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF THIS MAP IS BASED UPON LAND SURVEY MAP DATED 12/21/01 MEETS THE MINIMUM SURVEY DETAIL REQUIREMENTS AS PROMULGATED BY THE STATE BOARD OF PROFESSIONAL ENGINEERS AND LAND SURVEYORS AND HAS BEEN MADE UNDER MY SUPERVISION AND COMPLIES WITH THE PROVISIONS OF "THE MAP FILING LAW"

JEFFERY H. KLEINE
PROFESSIONAL LAND SURVEYOR
N.J. LIC. No. 35848