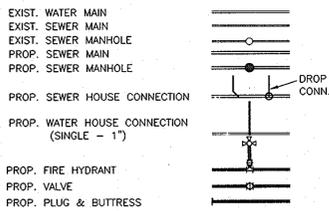


LEGEND



LOT 8

WHC TO SH 3	52.0'
WHC TO SH 9	42.5'
WHC TO SH 8	18.0'
SHC TO SH 3	30.5'
SHC TO SH 3	90.5'

LOT 9

SHC TO AIR RELEASE MH - 27.0	
SHC TO WHC LOT 10	55.5
SHC TO WHC LOT 9	22.6
WHC TO SH LOT 10	18.0
WHC TO AIR RELEASE MH	21.0
WHC TO SH 10	13.0

LOT 10

S.H.C. TO SH 9	18.5
S.H.C. TO WHC LOT 11	22.0
S.H.C. TO WHC LOT 10	27.5
WHC TO SH 9	43.0
WHC TO SH 10	47.0
WHC TO AIR RELEASE MH	41.5

NOTE: LOTS 16 & 17 WHCs MUST BE INCREASED TO 1/2" DIAMETER CONNECTIONS.

LOT 16

SHC TO WHC LOT 1 - 70	
SHC TO SH 8	42.5
WHC TO SH 8	43.5
WHC TO WHC LOT 2	35.0
SHC TO WHC LOT 2	38.5

LOT 18

WHC TO SH 8	27.5
WHC TO SHC	21.0
WHC TO 8" V(1)	81.0
SHC TO SH 8	41.5
SHC TO 8" V(1)	60.2
SHC TO 4" F.H.	62.2
SHC TO 6" F.H.	69.0

HOWARD SOIL CONSERVATION DISTRICT REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

John M. ... DATE

THIS PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

John M. ... DATE

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY STANDARD SPECIFICATIONS AND AS PER ROAD CONSTRUCTION PLANS F-05-012.

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

Ratzen 8-9-05 DATE

QUANTITIES

ITEMS	QUANTITIES ESTIMATED	QUANTITIES AS-BUILT	TYPE	MANUF./SUPPLIER
8" WATER	1,080 L.F.	1,080	CL-52 D.I.P.	GRIFFIN PIPE SUPPLY
8" VALVES	3 EA.	2	GATE VALVE	MUELLER CO. BELAIR RD.
6" VALVES	2 EA.	2	GATE VALVE	MUELLER CO.
FIRE HYDRANTS	2 EA.	2		MUELLER CO.
1" WHC	191 L.F.	213.9	T.I.P. COPPER	READING TUBE BARS
8" WATER	153 L.F.	153	D.I.P. CL-52	GRIFFIN PIPE PRODUCTS
1/2" WHC	13 L.F.			

NAME OF UTILITY CONTRACTOR: GAINES AND CO.
SURVEY AND DRAFTING DIVISION AS-BUILT DATE:

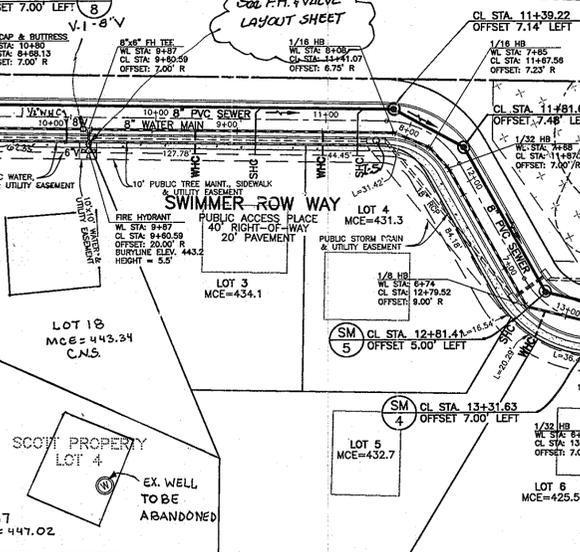
NOTES:
ALL PROPOSED WATER AND SEWER MAINS ARE TO BE "PUBLIC".
ALL DROP SEWER HOUSE CONNECTIONS ARE TO BE TYPE 'A' HO. CO. STD. S-2.12

LOT 11

S.H.C. TO SH 9	14.7
S.H.C. TO WHC LOT 11	43.0
S.H.C. TO SH 9	27.7
WHC TO SH 9	34.0
WHC TO SH 9	55.3
SHC TO SHC LOT 10	13.0'

LOT 12

SHC TO SH 2	30'
SHC TO WHC LOT 12	38.5'
WHC TO SH 2	74.8'
WHC TO SH 2	46.5'
WHC TO SH 2	84.0'

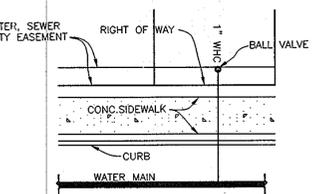


SEWER HOUSE CONNECTION CHART

LOT INV. @ MAIN INV. @ ROW/ESMT	MCE	NOTES
16 440.24 441.00	445.20	CELLAR NOT SERVICED
3 429.57 430.11	434.1	
4 426.22 426.76	431.3	
5 421.43 421.95	432.7	2% TO R/W. 5% TO HOUSE
6 420.88 421.48	425.5	
7 420.26 420.80	425.0	
8 420.47 420.89	424.8	
9 421.74 421.98	426.2	
10 420.80 421.14	425.8	
11 420.80 421.00	425.6	
12 416.33 416.87	421.3	
17 438.62 439.16	442.02	
18 438.40 439.14	443.31	CELLAR NOT SERVICED

LOT 19

WHC TO 6" F.H.	61.0
WHC TO 6" F.H.V	61.5
SHC TO SHC LOT 9	38.0
SHC TO SH 8	84.5
SHC TO 6" INLET 5 COVER 11.0	
SHC TO WHC LOT 4	41.0



NOT TO SCALE



NOT TO SCALE



NOT TO SCALE



NOT TO SCALE



NOT TO SCALE



NOT TO SCALE



NOT TO SCALE



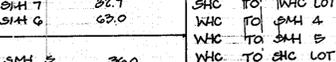
NOT TO SCALE



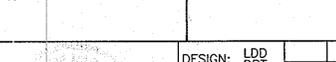
NOT TO SCALE



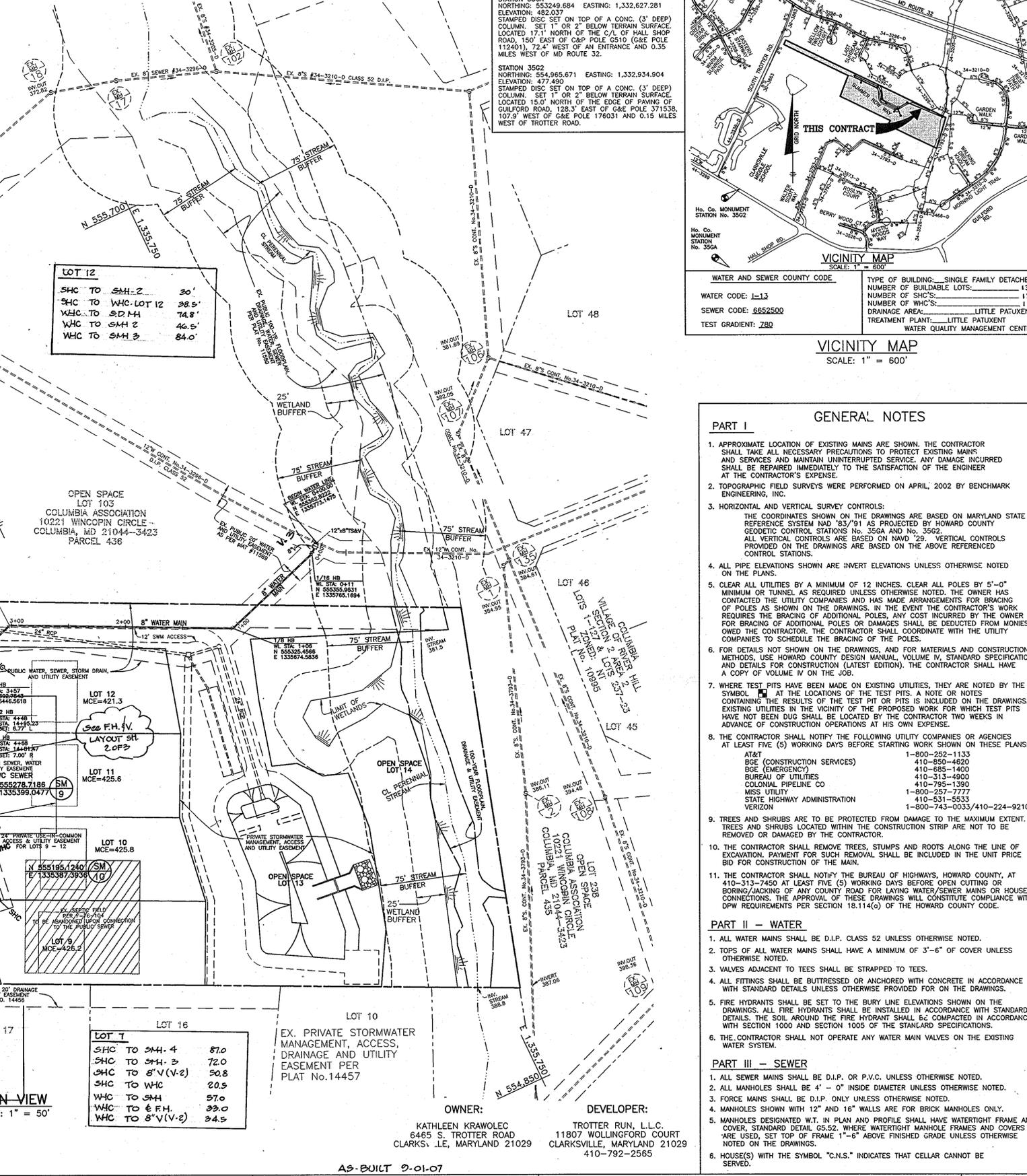
NOT TO SCALE



NOT TO SCALE



NOT TO SCALE



OWNER: KATHLEEN KRAWOLEC 6465 S. TROTTER ROAD CLARKS, MD, MARYLAND 21029

DEVELOPER: TROTTER RUN, L.L.C. 11807 WOLLINGFORD COURT CLARKSVILLE, MARYLAND 21029 410-792-2565

AS-BUILT 9-01-07

PLAN VIEW OF WATER AND SEWER MAINS

TROTTERS RUN LOTS 3-12, 16, 18 AND OPEN SPACE LOTS 13 - 15

ELECTION DISTRICT NO. 5

SCALE: AS SHOWN

DESIGN: LDD DBT
DRAFT: LDD DBT
CHK: DAM
DATE: 3/05

REVISIONS: BEI 3 CHANGE LOTS 16 & 17 WHC TO 1/2" DIA. BEI 2 CHANGE LOTS 1 & 2 TO LOTS 16-18 PER THE BACK 8/30/11 KCI 1 AS-BUILT DATA SHOWN 10/09/07

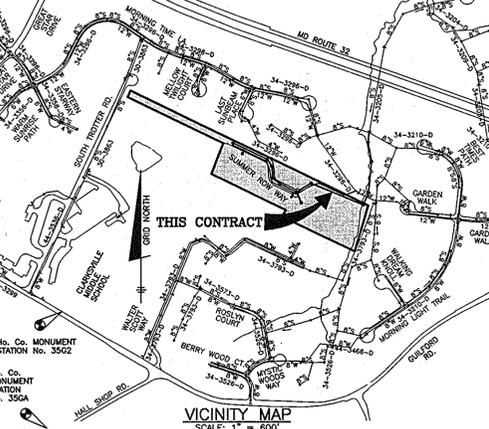
600 SCALE MAP NO. 35 BLOCK 14&20

CONTRACT NO. 34-4081-D

SHEET NO. 1 OF 3

BENCHMARKS (NAD '83):
STATION 3564
NORTHING: 553249.684 EASTING: 1,332,627.281
ELEVATION: 482.037
STAMPED DISC SET ON TOP OF A CONC. (3" DEEP) COLUMN, SET 1" OR 2" BELOW TERRAIN SURFACE. LOCATED 17.1' NORTH OF THE C/L OF HALL SHOP ROAD, 150' EAST OF C&P POLE 0510 (G&E POLE 112401), 72.4' WEST OF AN ENTRANCE AND 0.35 MILES WEST OF MD ROUTE 32.

STATION 3562
NORTHING: 554,965.671 EASTING: 1,332,934.904
ELEVATION: 477.490
STAMPED DISC SET ON TOP OF A CONC. (3" DEEP) COLUMN, SET 1" OR 2" BELOW TERRAIN SURFACE. LOCATED 15.0' NORTH OF THE EDGE OF PARKING OF GUILFORD ROAD, 128.3' EAST OF G&E POLE 371538, 107.9' WEST OF G&E POLE 176031 AND 0.15 MILES WEST OF TROTTER ROAD.



WATER AND SEWER COUNTY CODE

WATER CODE: L-13	TYPE OF BUILDING: SINGLE FAMILY DETACHED
SEWER CODE: 6852500	NUMBER OF BUILDABLE LOTS: 19
TEST GRADIENT: 780	NUMBER OF SHCS: 13
	NUMBER OF WHCS: 13
	DRAINAGE AREA: LITTLE PATUXENT
	TREATMENT PLANT: LITTLE PATUXENT
	WATER QUALITY MANAGEMENT CENTER

PART I - GENERAL NOTES

- APPROXIMATE LOCATION OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
- TOPOGRAPHIC FIELD SURVEYS WERE PERFORMED ON APRIL, 2002 BY BENCHMARK ENGINEERING, INC.
- HORIZONTAL AND VERTICAL SURVEY CONTROLS:
THE COORDINATES SHOWN ON THE DRAWINGS ARE BASED ON MARYLAND STATE REFERENCE SYSTEM HAD '83/91 AS PROJECTED BY HOWARD COUNTY GEODIN CONTROL STATIONS No. 3564 AND No. 3562. ALL VERTICAL CONTROLS ARE BASED ON NAVD '29. VERTICAL CONTROLS PROVIDED ON THE DRAWINGS ARE BASED ON THE ABOVE REFERENCED CONTROL STATIONS.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED ON THE PLANS.
- CLEAR ALL UTILITIES BY A MINIMUM OF 12 INCHES. CLEAR ALL POLES BY 5'-0" MINIMUM OR TUNNEL AS REQUIRED UNLESS OTHERWISE NOTED. THE OWNER HAS CONTACTED THE UTILITY COMPANIES AND HAS MADE ARRANGEMENTS FOR BRACING OF POLES AS SHOWN ON THE DRAWINGS. IN THE EVENT THE CONTRACTOR'S WORK REQUIRES THE BRACING OF ADDITIONAL POLES, ANY COST INCURRED BY THE OWNER FOR BRACING OF ADDITIONAL POLES OR DAMAGES SHALL BE DEDUCTED FROM MONIES OWED THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES TO SCHEDULE THE BRACING OF THE POLES.
- FOR DETAILS NOT SHOWN ON THE DRAWINGS, AND FOR MATERIALS AND CONSTRUCTION METHODS, USE HOWARD COUNTY DESIGN MANUAL VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (LATEST EDITION). THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IV ON THE JOB.
- WHERE TEST PITS HAVE BEEN MADE ON EXISTING UTILITIES, THEY ARE NOTED BY THE SYMBOLS AT THE LOCATIONS OF THE TEST PITS. A NOTE OR NOTES CONTAINING THE RESULTS OF THE TEST PIT OR PITS IS INCLUDED ON THE DRAWINGS. EXISTING UTILITIES IN THE VICINITY OF THE PROPOSED WORK FOR WHICH TEST PITS HAVE NOT BEEN DUG SHALL BE LOCATED BY THE CONTRACTOR TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS AT HIS OWN EXPENSE.
- THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE (5) WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
AT&T 1-800-252-1133
BGE (CONSTRUCTION SERVICES) 410-850-4820
BGE (EMERGENCY) 410-685-1400
BUREAU OF UTILITIES 410-313-4900
COLONIAL PIPELINE CO 410-795-1390
MISS UTILITY 1-800-252-7777
STATE HIGHWAY ADMINISTRATION 410-531-5533
VERIZON 1-800-743-0033/410-224-9210
- TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO THE MAXIMUM EXTENT. TREES AND SHRUBS LOCATED WITHIN THE CONSTRUCTION STRIP ARE NOT TO BE REMOVED OR DAMAGED BY THE CONTRACTOR.
- THE CONTRACTOR SHALL REMOVE TREES, STUMPS AND ROOTS ALONG THE LINE OF EXCAVATION. EXCAVATION FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONSTRUCTION OF THE MAIN.
- THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT 410-313-7450 AT LEAST FIVE (5) WORKING DAYS BEFORE OPEN CUTTING OR BORING/JACKING OF ANY COUNTY ROAD FOR LAYING WATER/SEWER MAINS OR HOUSE CONNECTIONS. THE APPROVAL OF THESE DRAWINGS WILL CONSTITUTE COMPLIANCE WITH DPW REQUIREMENTS PER SECTION 18.114(a) OF THE HOWARD COUNTY CODE.

PART II - WATER

- ALL WATER MAINS SHALL BE D.I.P. CLASS 52 UNLESS OTHERWISE NOTED.
- TOPS OF ALL WATER MAINS SHALL HAVE A MINIMUM OF 3'-6" OF COVER UNLESS OTHERWISE NOTED.
- VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
- ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS.
- FIRE HYDRANTS SHALL BE SET TO THE BURY LINE ELEVATIONS SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE INSTALLED IN ACCORDANCE WITH STANDARD DETAILS. THE SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1000 AND SECTION 1005 OF THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.

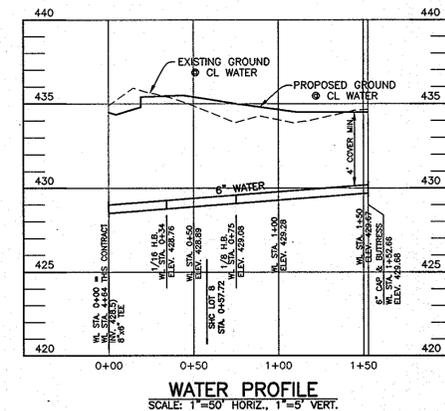
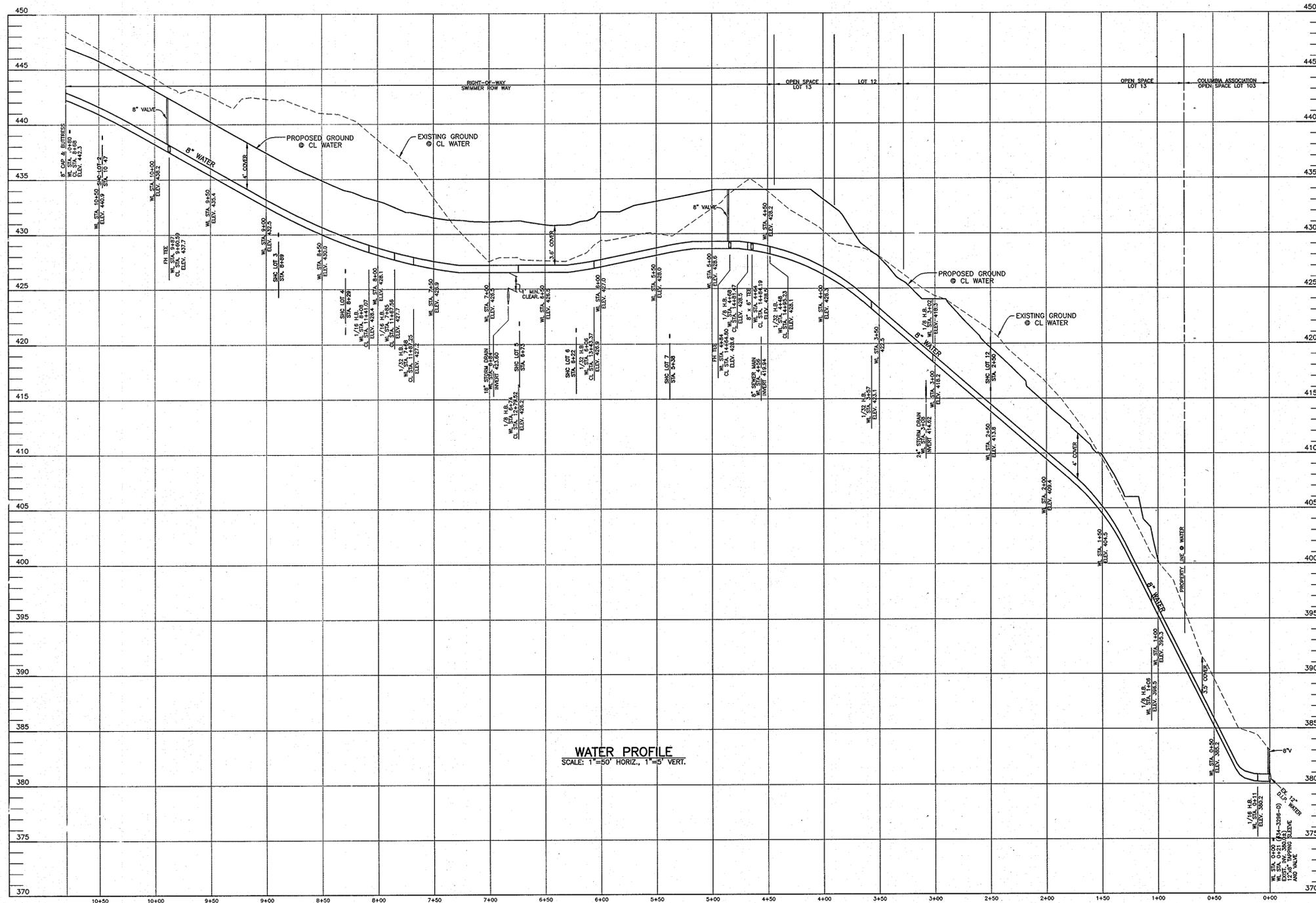
PART III - SEWER

- ALL SEWER MAINS SHALL BE D.I.P. OR P.V.C. UNLESS OTHERWISE NOTED.
- ALL MANHOLES SHALL BE 4' - 0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
- FORCE MAINS SHALL BE D.I.P. ONLY UNLESS OTHERWISE NOTED.
- MANHOLES SHOWN WITH 12" AND 16" WALLS ARE FOR BRICK MANHOLES ONLY.
- MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVER, STANDARD DETAIL 05.52. WHERE WATERTIGHT MANHOLE FRAMES AND COVERS ARE USED, SET TOP OF FRAME 1'-6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT CELLAR CANNOT BE SERVED.

BENCHMARK ENGINEERING, INC.
8480 BALTIMORE NATIONAL PIKE SUITE 418
ELLICOTT CITY, MARYLAND 21043
PHONE: 410-465-6105 FAX: 410-465-6844

Donald Mason
Neilos

P:\1367\dwg\6046.dwg, Sheet 1, 7/29/2005 2:29:08 PM, Inc. C:\c\TD5600.HDR for mtr\mtr



OWNER: KATHLEEN KRAWOLEC
6465 S. TROTTER ROAD
CLARKSVILLE, MARYLAND 21029

DEVELOPER: TROTTER RUN, L.L.C.
11807 WOLLINGFORD COURT
CLARKSVILLE, MARYLAND 21029
410-792-2565

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

BENCHMARK
ENGINEERS & LAND SURVEYORS & PLANNERS
ENGINEERING, INC.

8480 BALTIMORE NATIONAL PIKE & SUITE 418
ELLCOTT CITY, MARYLAND 21043
PHONE: 410-465-6105 FAX: 410-465-6644

Donald Mason
1/10/05

DESIGN:	LDD				
	DBT				
DRAFT:	LDD				
	DBT				
CHK:	DAM				
DATE:	3/05				
BY:	NO.	REVISE TITLE BLOCK	8/30/2011		

PROFILES AND DETAILS

600 SCALE MAP NO. 35 BLOCK 14&20

TROTTERS RUN
LOTS 3-12, 16-18 AND OPEN SPACE LOT 13 - 15
ELECTION DISTRICT NO. 5
CONTRACT NO. 34-4081-D

SCALE:
AS SHOWN
SHEET NO.
3 OF 3

R. B. B. 8-10-95
CHIEF, BUREAU OF UTILITIES DATE

Donald Mason 8/10/05
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE