LEGEND

NO PHYSICAL BOUNDS
STONE WALL
STONE WALL REMAINS
UTILITY POLE
OVERHEAD SERVICE WIRES
CATCH BASIN — CB
EXISTING HOUSE
EXISTING ROAD
PROPOSED HOUSE
DEEP TEST
PERCOLATION TEST
PROPOSED LOT NUMBER — 2
PROPOSED PAVED DRIVEWAY
EXISTING TREE LINE
PROPOSED WATER SERVICE — WS —
EXISING WATER MAIN — W —
EXISTING CONTOURS — 102 —
PROPOSED SPOT ELEVATIONS 239.0
PROPOSED RIP RAP D_{50}=6"

GRAPHIC SCALE
(IN FEET)
1 inch = 60 ft.

PROPOSED WATER SERVICES PER LOT	
LOT 1	1 ½" K COPPER
LOT 2	1" K COPPER
LOT 3	1" K COPPER
LOT 4	1" K COPPER

WATER NOTES

1. All water mains shall be cement lined ductile iron pipe, class 52 push-on joint, unless otherwise specified by or approved by the Town of Poughkeepsie Water Department. Joining shall employ "Megalug" connections. Field look gaskets are alternatively specified by the Town of Poughkeepsie Water Department. All water piping construction shall be to the specifications of the Town of Poughkeepsie Water Department.
2. The water line may be flexed within pipe specifications or laid deeper in areas where a crossing with a sanitary line occurs, to achieve the required 18' vertical separations distance. If this distance cannot be reasonably achieved, the contractor shall either cut and joint the pipe or concrete encase both lines 10' in each direction.
3. Minimum vertical separation between water mains and sewer pipe shall be 18 inches measured from the outside of the pipes at the point of crossing. One full standard laying length of water main shall be centered under or over the sewer so that both joints will be as far from the sewer as possible. In addition, when the water main passes under a sewer, adequate structure support (compacted select fill) shall be provided for the sewer to prevent excessive deflection of joints and settling of the sewer pipe on the water main. Minimum horizontal separation between parallel water mains and sewer pipes (including manholes and laterals) shall be 10 feet measured from the outside of the pipes, manholes or vaults.
4. All water mains shall have a minimum of (5) five feet of cover from the top of the main to finished grade. The contractor shall check all cut sheets before trenching to ensure that all installed watermains will have the required cover.
5. The supplier of water must receive at least 48-hour advance notification requesting sampling services. Sampling will not be performed prior to receipt from a New York State licensed or registered design professional (engineer, architect, or land surveyor with a special exemption under section 7208 (k) of the education law) certifying that the water supply improvements, testing and disinfection procedures were completed in accordance with an approved plans, reports, specifications and any approved amendments. The department will collect samples for the chlorine residual, total and fecal coliform and 24-hour bacterial plate count.
6. The contractor shall coordinate the testing with the water department so as to maintain the amount of service interruption to existing users to the extent practicable.
7. The water main shall be pressure leakage tested in accordance with the minimum requirements of the AWWA standard C600 (latest version), or in accordance with more stringent requirements imposed by the supplier of water. Test to final valve within building.
8. The water main shall be disinfected equal to AWWA Standard for disinfecting water mains (as gradation C651 (latest version). Following disinfection, the water main shall be flushed until the chlorine concentration in the water leaving the main is no higher than the generally prevailing in the system.
9. All water main fittings not receiving 24-hour chlorine disinfection contact time must be re-disinfected 30 minutes prior to installation.
10. The sampling points shall be decontaminated by flaming.
11. Fire hydrants are not acceptable sampling points.
12. Fire hydrant keep holes (drains) shall be plugged with ground water is encountered within seven feet of the finished grade. When drains are plugged, the barrels must be pumped dry after use during freezing weather. Such hydrants shall be identified by markings as approved by the Town of Poughkeepsie.
13. Proposed water meters located within the meter pit or building shall be a compatible remote style, and shall be approved by the Town of Poughkeepsie Water Department prior to installation.
14. The water line shall be installed at a continuous grade with no abrupt high points or low points.
15. Final water distribution system is subject to review, revision and approval by the Town of Poughkeepsie Water Department.
16. All water mains and related appurtenances shall be constructed to the latest standards and specifications of the Town of Poughkeepsie.
    - a water main shall not be placed into service until so authorized by the Town of Poughkeepsie.
    - ater service construction shall be subject to inspection by the Town Water Department prior to backfilling.
    - s the utility contractor shall be responsible for all buried piping to the location of the process building connection point (i.e. inside the building). This includes the testing and certifications of all water service work from the town water connection point to the processed buildings interior connection.
20. Indicator tape shall be placed 12" below finished grade directly above all waterlines.
21. All new valves shall be "resilient wedge" type as approved by the Town Water Department.
22. 1" water meters to be purchased by the Town of Poughkeepsie Water Department.
23. ¾" water meter is to be purchased and supplied by owner, but shall be approved by the Town of Poughkeepsie Water Department.
24. All wet taps shall be performed by the Town of Poughkeepsie Water Department.
25. Contractor must obtain all required permits from the Town.

ARICO - SUBDIVISION — CUT AND FILL CALCS (CUBIC YARDS) 10/14/2005

Site Volume from Land Development Desktop - Cubic Yards

site: total arico site
stratum: total cut fill
surface 1: existing-contours-sub03
surface 2: total proposed

	CUT	FILL	NET	METHOD
	859	11219	10325 (F)	GRID

Subtract volume of SDB expansion areas included in total above
Expansion area = 1/3 of total sedoc volume in the design

	A top slope SF	A top slope SF	Fill FT	Volume CY	Expansion Volume CY
Lot 1	12400	8500	3	1161	581
Lot 2	11000	5600	4	1230	615
Lot 3	11400	7600	4	1530	815
Lot 4	17200	9100	4	1948	974

Total Expansion Area Volume: 2984

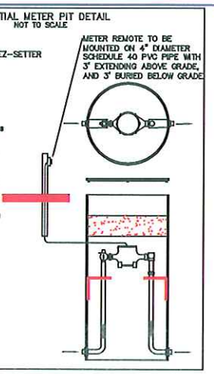
TOTAL CUT/FILL VOLUMES - Cubic Yards

CUT	FILL	NET (F)
859	8229	7340

RESIDENTIAL METER PIT DETAIL
NOT TO SCALE

MUELLER/McCullough Riser EZ-SETTER Meter Box Features:

- Rigid .300 minimum wall PVC material holds shape and resists frost bridging
- Optional insulation pad traps earth's heat
- White interior aids visibility
- Meter set is anchored to meter box wall to maintain alignment and stability
- Make I.P. thread inlet and outlet connections accept a variety of MUELLER Service Fittings
- Optional aluminum bottom available
- Large selection of optional lids



Inspection and Maintenance of Infiltration Chambers

Responsibility

Inspection and Maintenance of the storm water chambers on lots 1, 2, and 3 is the responsibility of the owner of each individual lot. If the devices are not maintained properly, the Town of Poughkeepsie will perform maintenance at the homeowner's expense.

Arico Subdivision

5 Lot residential subdivision in the Town of Poughkeepsie with subsurface sewage disposal systems and water service connection to Town water. Project including designing storm water treatment for all new homes proposed and assisting in the development of maintenance agreement as well as maintainance criteria and schedules.

Performed all site engineering for design
Completed Long Form EAF for SEQR
Present application to Planning Board

Contact person
Marian Arico
22 Caldwell Road
Poughkeepsie NY 12603
845-473-7365

3	5	223	375
4	5	224	375

CATCH BASINS

			CATCH BASIN OUTLET		
CB TG	INV	LENGTH (FT)	SLOPE	PIPE
CB 1	204.5	200.1	5	1.0%	15" HDPE
CB 2	204.5	200.4	28	1.0%	12" HDPE
CB 3	207.0	203	32	1.6%	12" HDPE

THE UNDERSIGNED OWNERS OF THE PROPERTY HEREON STATE THAT THEY ARE FAMILIAR WITH THIS MAP, ITS CONTENTS AND ITS LEGENDS AND HEREBY CONSENT TO ALL SAID TERMS AND CONDITIONS AS STATED HEREON AND TO THE FILING OF THIS MAP IN THE OFFICE OF THE CLERK OF THE COUNTY OF DUTCHESS, IF SO REQUIRED.

CIVIL ENGINEER
BERGER ENGINEERING AND SURVEYING
100 FULTON AVE
POUGHKEEPSIE, NY 12603
(845) 471-7383

PARCEL NUMBER 14-6261-02-576890

NO.	DATE	DESCRIPTION	BY
	07-25-05	TOWN ENGINEER'S COMMENTS	
	10-12-05	RESPONSES TO PLANNING BOARD COMMENTS	

PROJECT: ARICO SUBDIVISION
TOWN OF POUGHKEEPSIE
DUTCHESS COUNTY, NEW YORK

DRAWN BY: JPB
DATE: 6/21/05
SCALE: AS NOTED

DRAWING TITLE: GRADING AND UTILITIES PLAN
DRAWING NO.: SHEET 2 OF 6