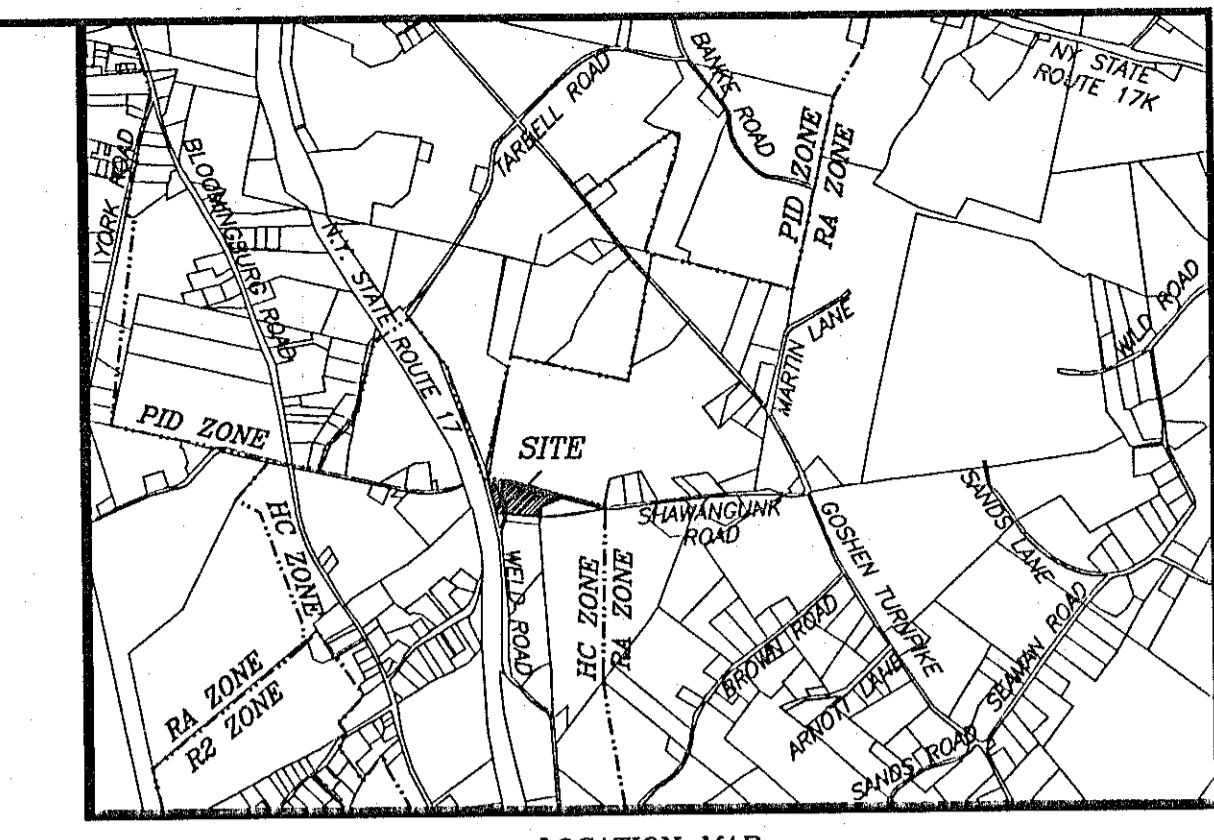


SOILS TYPE	GROUP	SOILS FORMULA		MINIMUM LOT SIZE	
		ACREAGE X	FACTOR =	TOTAL	
40B	IV	3.95	X 0.71	2.80	2.0 ACRES
25B	IX	0.50	X 0.17	0.09	NO SEPTIC'S ALLOWED
		TOTAL # OF LOTS ALLOWED =		2.89	



**PROPOSED ZONING --2007**  
**ZONING REGULATIONS:**  
 ZONE: HC - HIGHWAY COMMERCIAL DISTRICT  
 CONFORM TO R-2 ZONING

**MINIMUM REQUIRED**  
 LOT AREA SEE SOILS FORMULA  
 LOT WIDTH 200 FT.  
 LOT DEPTH 250 FT.  
 FRONT YARD 35 FT.  
 REAR YARD 35 FT.  
 1 SIDE YARD 20 FT.  
 BOTH SIDES 40 FT.  
 FLOOR AREA 1,000 SQ. FT.

**MAXIMUM PERMITTED**  
 BLDG HEIGHT 35 FT.

**ZONING REGULATIONS:**  
 ZONE: HC - HIGHWAY COMMERCIAL DISTRICT

MINIMUM REQUIRED	SEE SOILS FORMULA	PROPOSED LOT 1	PROPOSED LOT 2
LOT AREA		2.16 ± ACRES	2.29 ± ACRES
LOT WIDTH	130 FT.	365 FT.	469.73 FT.
LOT DEPTH	120 FT.	315 FT.	300 FT.
FRONT YARD	35 FT.	105 FT.	90 FT.
REAR YARD	40 FT.	185 FT.	173 FT.
1 SIDE YARD	20 FT.	75 FT.	44 FT.
BOTH SIDES	30 FT.	280 FT.	188 FT.
FLOOR AREA	600 SQ. FT.	2,000 SQ. FT.	2,000 SQ. FT.
<b>MAXIMUM PERMITTED</b>			
BLDG HEIGHT	35 FT.	35 FT.	35 FT.

**SOILS FORMULA:**  
 THE PROPOSED SEPTIC SYSTEMS ARE LOCATED IN THE 40B SOILS  
 THE PROPOSED LOT SIZE FOR GROUP IV SOILS IS 2.00 ACRES

- NOTES:**
- BEARINGS SHOWN ON THIS MAP REFER TO GRID NORTH ON THE NEW YORK STATE PLANE COORDINATE SYSTEM, EAST ZONE, CENTRAL MERIDIAN 74°20'00" WEST LONGITUDE.
  - THE GRID COORDINATES IN THE NORTHING AND EASTING WERE TAKEN FROM THE TOWN OF WALLKILL SURVEY MONUMENTATION REPORT, DONE BY OTHERS IN JULY OF 1989. THE TOWN OF WALLKILL HORIZONTAL MONUMENTATION UTILIZED FOR THE PROJECT WERE MONUMENTS NUMBER 58 AND NUMBER 59.
  - THE VERTICAL MONUMENTS WERE TAKEN FROM THE TOWN OF WALLKILL SURVEY MONUMENTATION REPORT DONE BY OTHERS IN JULY OF 1989. THE TOWN OF WALLKILL VERTICAL MONUMENTS UTILIZED FOR THIS PROJECT WERE MONUMENTS NUMBER 58 AND NUMBER 59.
  - ELEVATIONS ARE IN FEET ABOVE MEAN SEA LEVEL ON THE NATIONAL GEODETIC VERTICAL DATUM [NGVD] 1929.
  - NO TOWN SEWER OR WATER IS AVAILABLE.
  - THERE ARE NO DEED EASEMENTS OR RESTRICTIONS.
  - THERE ARE NO PROPOSED OR EXISTING TILE FIELDS, OR WELLS, LOCATED WITHIN 200 FEET OF THE PROPOSED WELLS AND SEPTICS ON LOTS 1 AND 2.
  - ALL PROPOSED HOUSES ARE SINGLE FAMILY DWELLINGS, TWO (2) FAMILY DWELLINGS ARE NOT TO BE CONSTRUCTED.
  - A TOWN OF WALLKILL HIGHWAY ENTRANCE PERMIT IS TO BE ACQUIRED AND A MEETING WITH THE TOWN OF WALLKILL HIGHWAY SUPERINTENDENT IS TO BE HELD, PRIOR TO ANY CONSTRUCTION ACTIVITY ON THESE LOTS TO REVIEW THE INSTALLATION OF THE CULVERT, DRIVEWAY AND CONSTRUCTION OF THE SWALE.
  - THIS LOT IS NOT IN AN AG USE DISTRICT, AND IS NOT LOCATED WITHIN 500 FEET OF ANY LOT WHICH IS BEING FARMED, OR WITHIN 600 FEET OF AN AG USE DISTRICT.
  - ALL EXISTING LARGE TREES AND STONEWALLS ARE TO BE PRESERVED IN THE AREAS WHERE THERE IS NO NEW CONSTRUCTION SHOWN.

**MAP REFERENCE:**  
 BEING LOT #2 ON A MAP ENTITLED, "2 LOT SUBDIVISION, LANDS OF ESPM", FILED IN THE ORANGE COUNTY CLERK'S OFFICE ON MAY 31, 2006, AS MAP #449-08.

**RECORD OWNER & SUBDIVIDER:**  
 ESPM LLC  
 2440 ROUTE 302  
 CIRCLEVILLE, NEW YORK 10919

**TAX MAP DESIGNATION:**  
 SECTION 3, BLOCK 1, LOT 10.22

**DEED REFERENCE:**  
 LIBER 11712 PAGE 1671

**ACREAGE:**  
 193,807 SQ. FT. OR  
 4.45± ACRES

TOWN OF WALLKILL  
 PLANNING BOARD  
 FINAL SUBDIVISION APPROVAL  
 FOR 2 LOT S/D  
 DATE 2/11/08  
 GARY W. LAKE  
 CHAIRMAN

SHEET 1 OF 2 IS INVALID AND INCOMPLETE, AND CANNOT BE FILED WITHOUT SHEET-2 OF 2

**THOMAS P. PTAKE, N.Y.S. P.E.**  
 55 PETTICOAT LANE BLOOMINGBURG, NEW YORK 12721  
 845-361-1931

REVISED: JANUARY 31, 2007 - DETAILS JUNE 14, 2007 - ENGINEERING COMMENTS  
 MARCH 1, 2007 - ENGINEERING COMMENTS JULY 5, 2007 - GILLEN ROAD R.O.W.  
 MAY 24, 2007 - ENGINEERING COMMENTS

**DANIEL P. YANOSH, N.Y.S. L.S.**  
 P.O. BOX 320 - 2194 N.Y.S. ROUTE 302  
 CIRCLEVILLE, NEW YORK 10919  
 PHONE #: (945) 361 - 4700 FAX #: (945) 361 - 4722

**2 LOT SUBDIVISION PHASE 2**

LANDS OF  
**ESPM LLC.**

SHAWANGUNK ROAD, WELD ROAD AND GILLEN ROAD  
 TOWN OF WALLKILL  
 COUNTY OF ORANGE, STATE OF NEW YORK

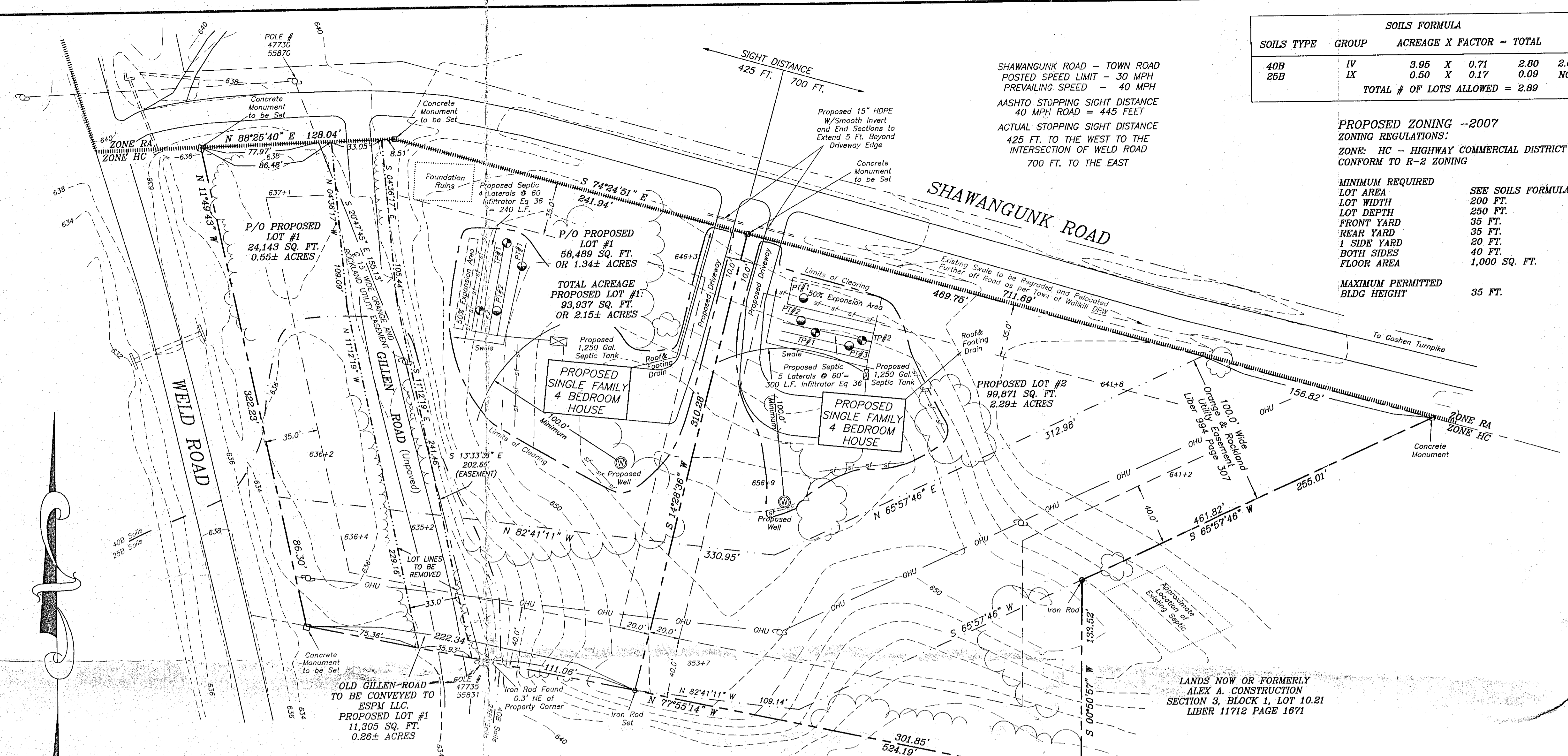
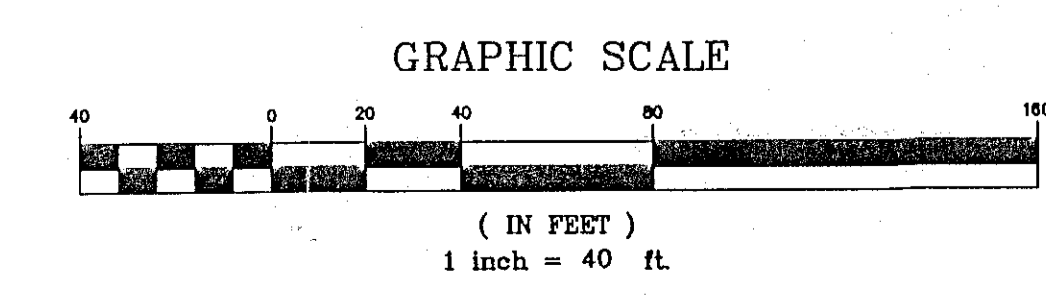
DRAWN BY: D.L. CHECKED BY: D.P.Y. SCALE: 1"=40' DATE: 11-20-2006 JOB #: 2003-142 PHASE 2

SHEET #  
 1 of 2

- LEGEND**
- EXISTING STONEMASS TO REMAIN
  - EXISTING TREE / SHRUB LINE
  - EXISTING TREE TO REMAIN
  - UTILITY POLE
  - LIMITS OF DISTURBANCE
  - PROPOSED SILT FENCE
  - PERC TEST
  - DEEP TEST PIT

**SEPTIC INVERTS LOT#1**  
 L.S.E.....651.5  
 IN SEPTIC TANK.....651.25  
 OUT SEPTIC TANK.....651.0  
 DISTRIBUTION BOX.....648.0

**SEPTIC INVERTS LOT#2**  
 L.S.E.....648.6  
 IN SEPTIC TANK.....648.35  
 OUT SEPTIC TANK.....648.1  
 DISTRIBUTION BOX.....648.0



**NOTE:**  
 THESE ARE MINIMUM OPENINGS SIZES. FOR WIDER DRIVEWAYS WIDER OPENINGS WITH APRONS OF SIMILAR PROPORTIONS MAY BE CONSTRUCTED.

**PLAN**

10'-0" DRIVEWAY  
 R.O.W. LINE  
 2-1/2" ASPHALT PAVEMENT APRON (NOT REQUIRED ON DIRTY ROADS)  
 WRAP SHOULDER GRADE TO MEET DRIVEWAY  
 GRASS  
 EDGE OF TRAVELED WAY  
 CL CULVERT

**TYPICAL CROSS SECTION**  
 DRIVEWAY ENTRANCE ON ALTERNATE RURAL STREET

2-1/2" ASPHALTIC BINDER COURSE  
 4" FOUNDATION COURSE GRANULAR MATERIAL  
 CULVERT IN DICH LINES ON ROADS WITHOUT CURBS AND CATCH BASINS, 15" HDPE MIN. WITH SMOOTH INVERT. EXTEND CULVERT 5'-0" BEYOND DRIVEWAY EDGE, EACH SIDE.  
 STABLE SUBGRADE MATERIAL  
 GEOTEXTILE MATERIAL  
 9" FOUNDATION COURSE (SUBBASE)  
 EXISTING SUBBASE  
 EXISTING ROAD PAVEMENT  
 2-1/2" ASPHALTIC CONCRETE BINDER COURSE

**DRIVEWAY ENTRANCE ON ALTERNATE RURAL STREET**

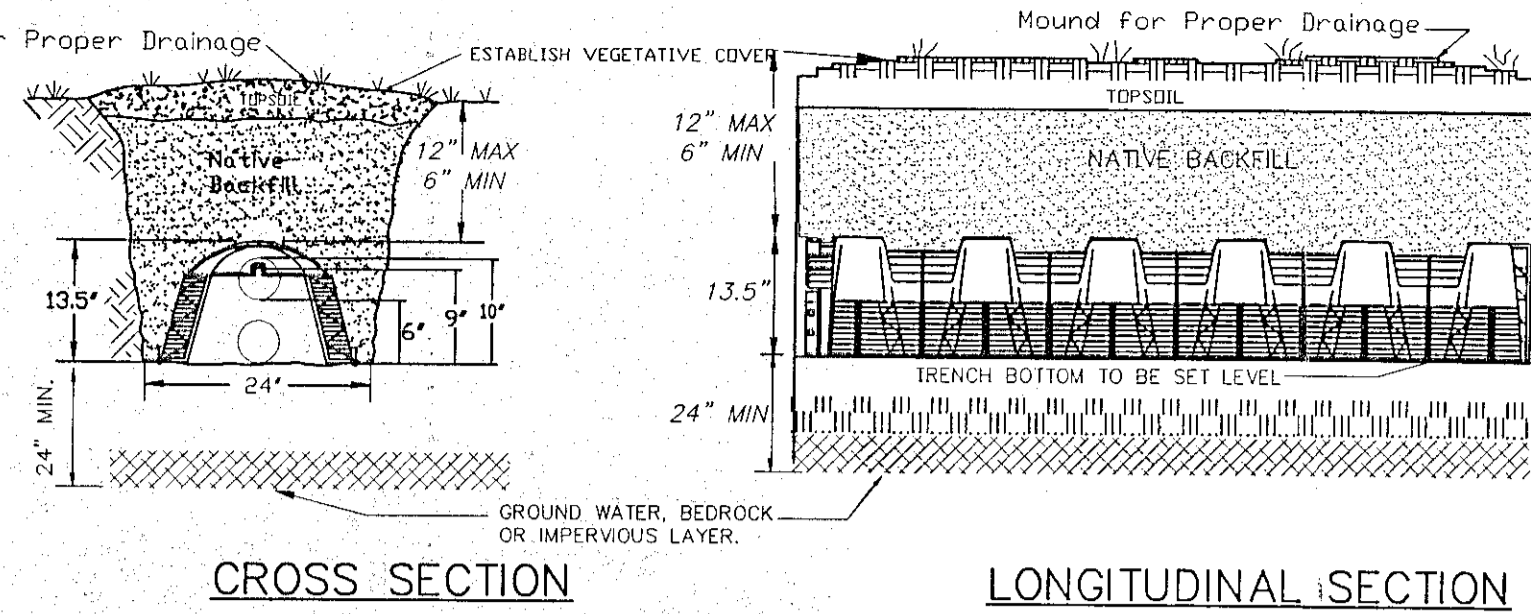
NOVEMBER 20, 2006  
 CERTIFY TO:  
 ESPM, LLC

TO BE A TRUE SURVEY COMPLETED IN THE FIELD ON FEBRUARY 25, 2004, AND THAT IT IS TO THE BEST OF MY KNOWLEDGE AND BELIEF CORRECT.

DANIEL P. YANOSH L.L.S.  
 N.Y.S. L.S. # 49561

DANIEL P. YANOSH L.L.S.  
 N.Y.S. L.S. # 49561

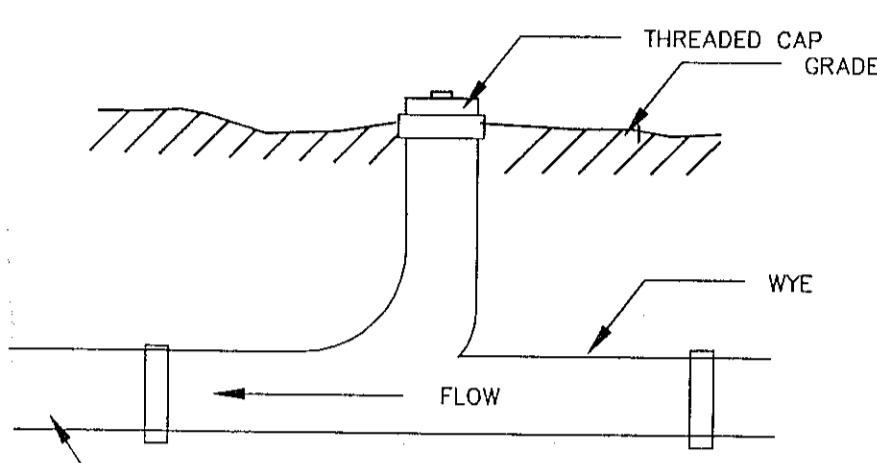
NO.	REVISION	DATE	BY
1	ENGINEERING COMMENTS	3/1/07	D
2	ENGINEERING COMMENTS	5/24/07	



**CONSTRUCTION NOTES:**

- SPACING OF ABSORPTION TRENCHES SHALL BE A MIN. OF 6' O.C.
- DO NOT INSTALL TRENCHES IN WET SOIL
- RAKE SIDES & BOTTOM OF TRENCHES
- ENDS OF ALL PIPES TO BE CAPPED
- 4' MIN. OF UNDISTURBED SOIL BETWEEN TRENCHES.

**ABSORPTION TRENCH DETAIL**  
N.T.S.



**PERCOLATION TESTS @30" 12/21/06**

LOT #	TEST #1	STOP WATCH	TIME	TEST #2	STOP WATCH	TIME
1	2:22		3:26			
	3:38		3:52			
	3:40		4:11			
2	2:30		2:09			
	3:18		2:35			
	3:30		2:41			

**DEEP TESTS 12/22/06**

LOT #1 TEST#1 0-8" TOP SOIL  
8"-6" SILTY SAND & GRAVEL  
NO GROUND WATER, NO BEDROCK

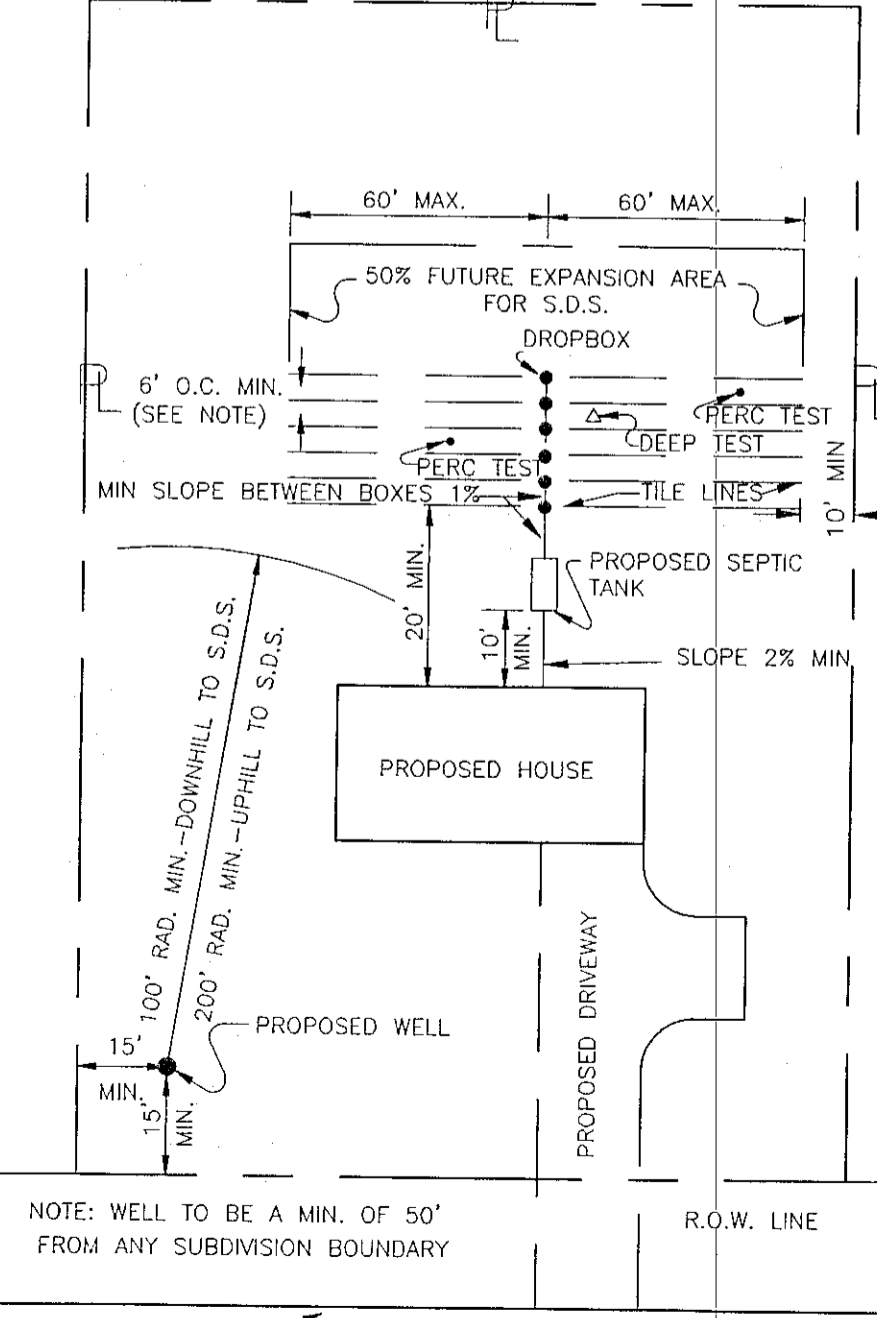
TEST#2 SAME AS #1

LOT #2 TEST#1 0-6" TOP SOIL  
6"-6" SILTY SAND & GRAVEL  
NO GROUND WATER, NO BEDROCK

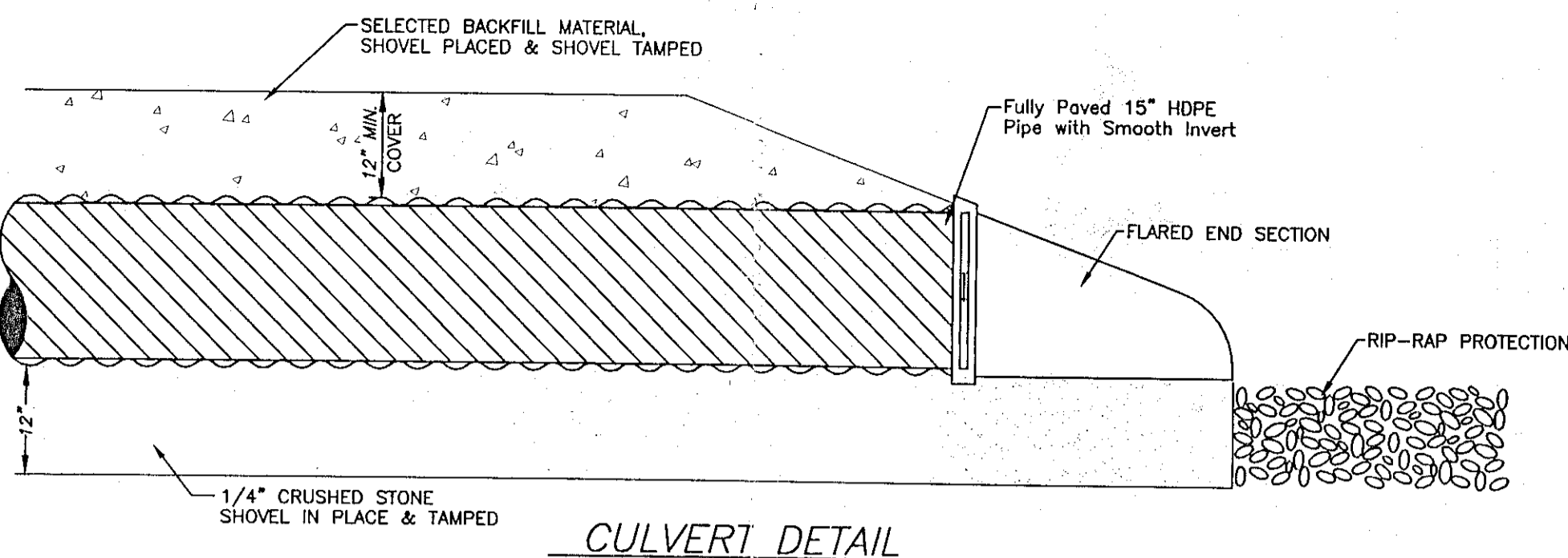
TEST#2 SAME AS #1

**WITNESSED PERCOLATION TESTS @24" 5/23/07**

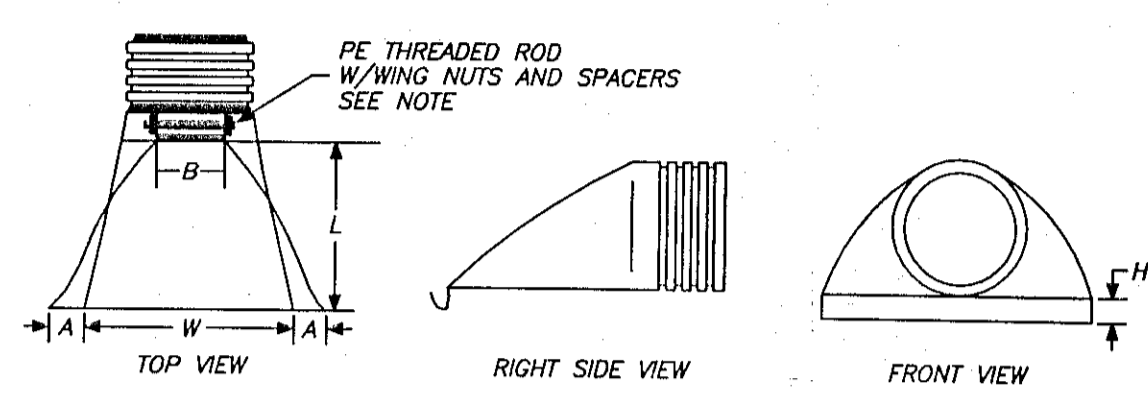
LOT #	TEST #3	STOP WATCH	TIME
2	3:05		
	8:20		
	10:42		
	11:17		



**TYPICAL LOT LAYOUT**



**CULVERT DETAIL**  
N.T.S.

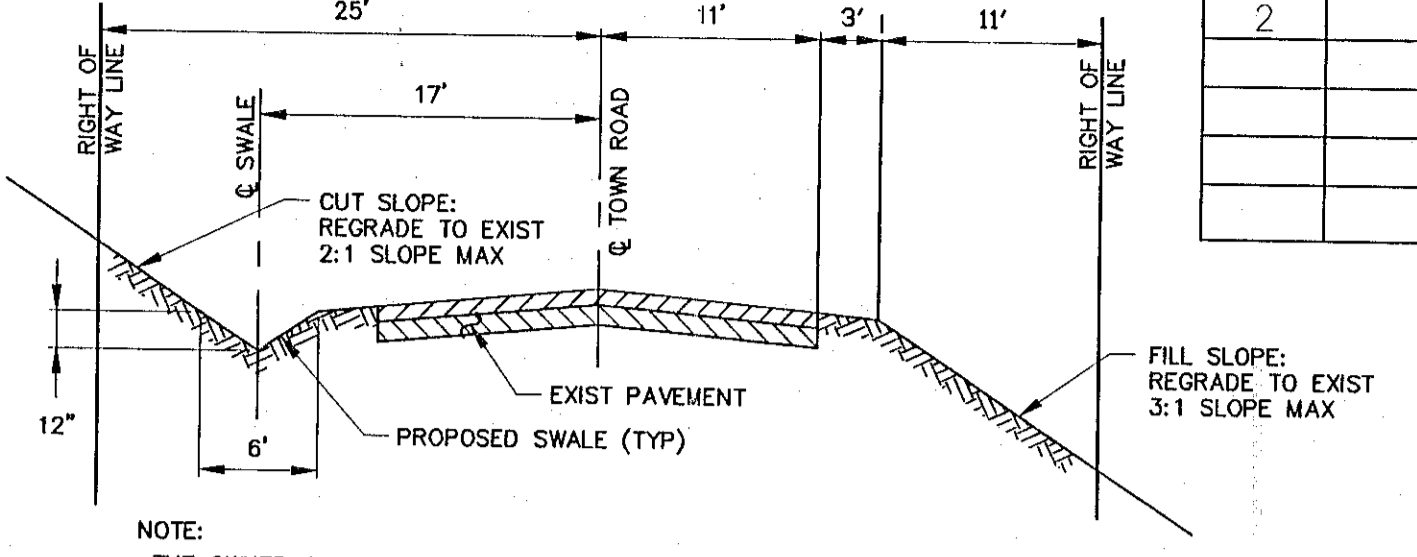


**FLARED END SECTIONS**

PART #	PIPE SIZE	A	B(MAX)	H	L	W
1510NP	15 IN	6.50 IN	10.00 IN	6.50 IN	25.00 IN	29.00 IN

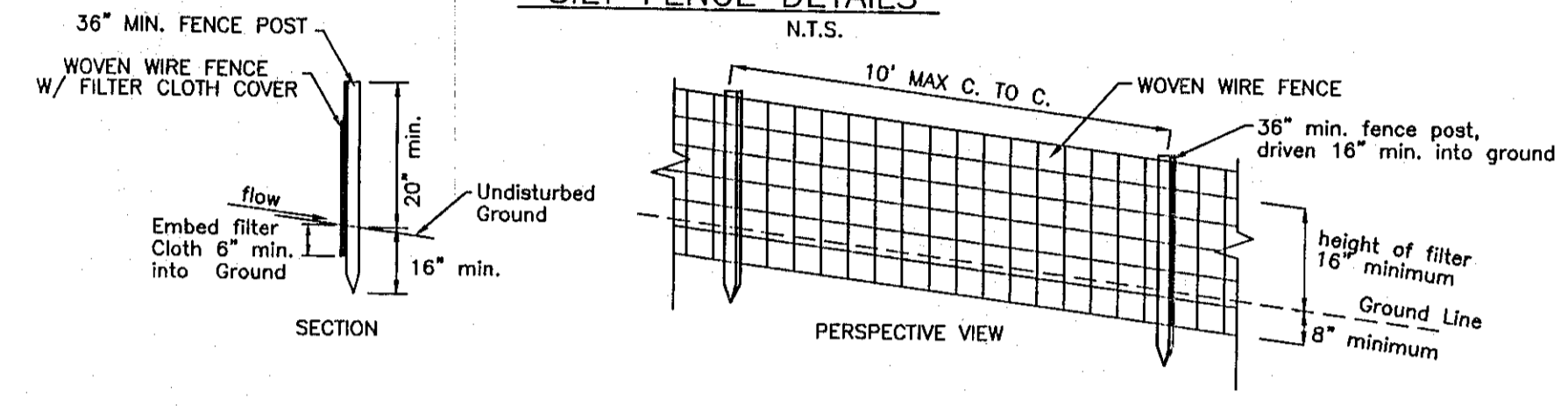
NOTE: PE THREADED ROD W/ WING NUTS PROVIDED FOR END SECTIONS 12"-24", 30" & 36" END SECTIONS REQUIRE TWO (2) THREADED RODS FOR ASSEMBLY.

NOTE: ALL DIMENSIONS ARE NOMINAL



**RIGHT OF WAY GRADING DETAIL**  
(NOT TO SCALE)

**SILT FENCE DETAILS**  
N.T.S.



**CONSTRUCTION NOTES FOR FABRICATED SILT FENCE**

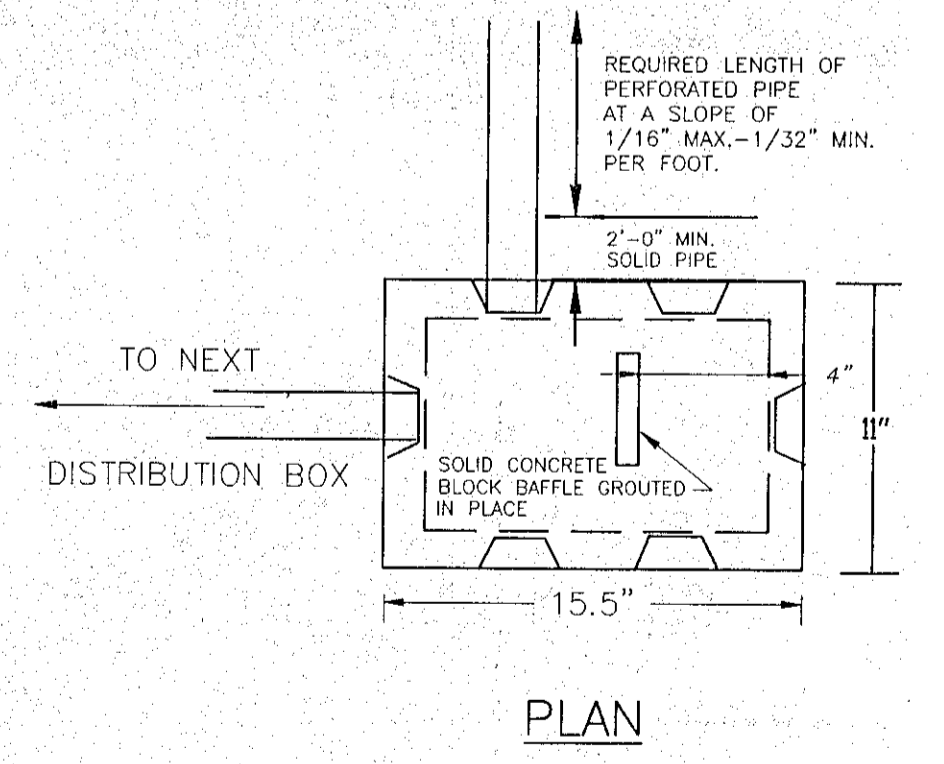
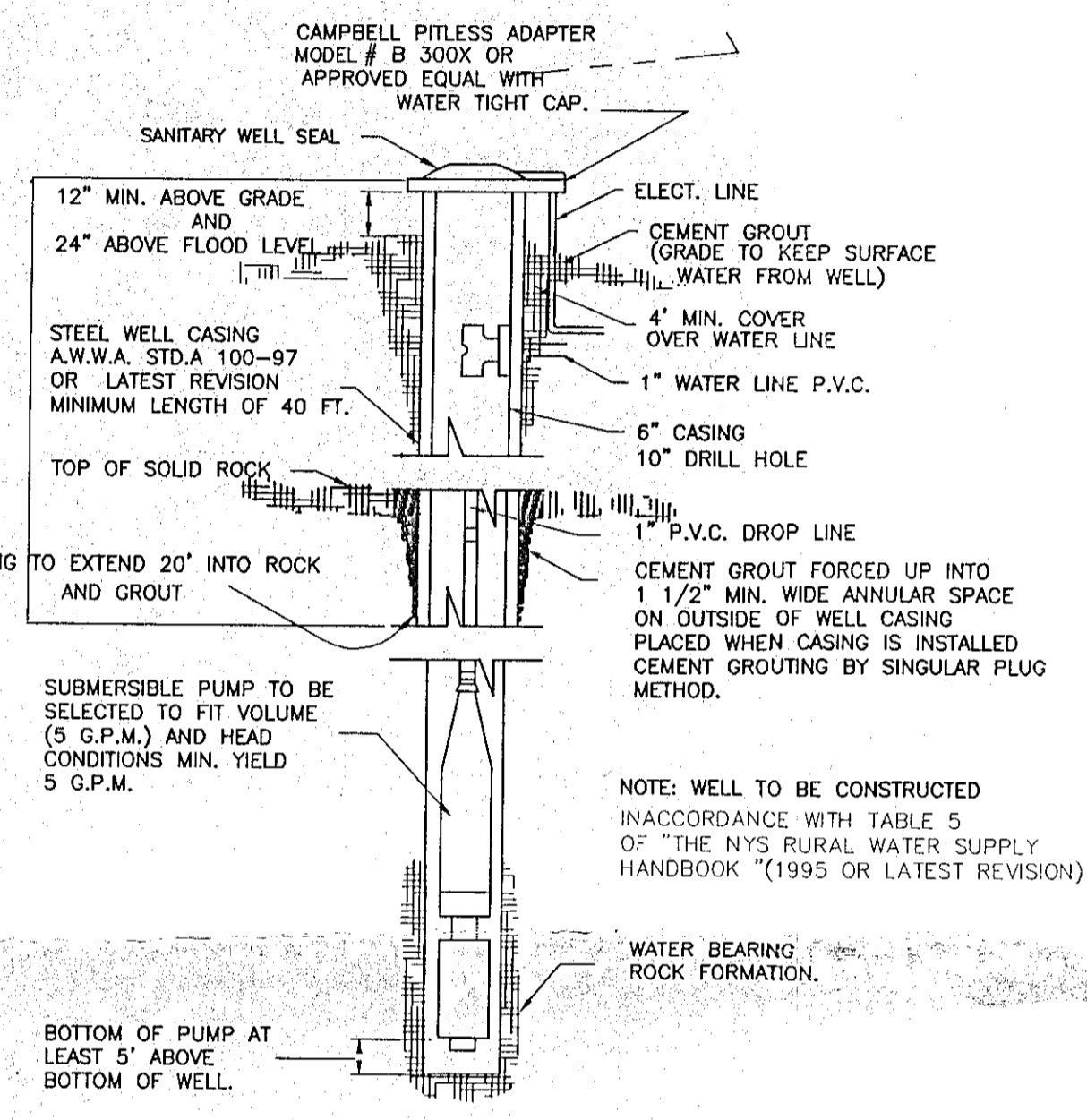
- WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POST WITH WIRE TIES OR STAPLES.
  - FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
  - WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY 6" AND FOLDED.
  - MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN 'BULGES' DEVELOP IN THE SILT FENCE.
- POST: Steel either 'I' or 'U' type or 2" hardwood  
FENCE: woven wire, 14 1/2 Ga. 6" max. mesh opening  
FILTER CLOTH: filter X Micro 100x, Stobliroko T140N or approved equal  
PREFABRICATED UNIT: Galotab, Envirofence, or approved equal.

- NOTES:**
- NO ROOF, CELLAR OR FOOTING DRAINS SHALL BE CONNECTED TO THE SUBSURFACE DISPOSAL SYSTEM OR DISCHARGE IN THE VICINITY OF THE TILE FIELD.
  - NO EARTH FILL SHALL BE PLACED IN THE AREA OF THE SUBSURFACE DISPOSAL SYSTEM DURING SITE GRADING.
  - WELL TO BE A MINIMUM 100' UPHILL OR 200' DOWNHILL FROM SEPTIC FIELD.
  - 10' MINIMUM SEPARATION BETWEEN DWELLING AND SEPTIC TANK.
  - 20' MINIMUM SEPARATION BETWEEN DWELLING AND TILE FIELD.
  - THIS SHEET NOT VALID OR COMPLETE WITHOUT THE ENGINEER'S ORIGINAL SIGNATURE AND SEAL.
  - TILE FIELD MUST BE A MINIMUM OF 35' FROM ANY CULVERT OR DRAINAGE CHANNEL.
  - NO GRADING IN THE AREA OF THE TILE FIELD IS ALLOWED.
  - PRIOR TO CONSTRUCTION A LICENSED PROFESSIONAL LAND SURVEYOR SHALL STAKE AND GRADE THE SEWAGE DISPOSAL SYSTEM.
  - CONSTRUCTION OF THE SEWAGE DISPOSAL SYSTEM MUST BE INSPECTED BY A N.Y.S. LICENSED PROFESSIONAL ENGINEER.
  - THE DESIGN AND LOCATION OF SANITARY FACILITIES (WATER & SEWER SYSTEMS) SHALL NOT BE CHANGED
  - WELL TO BE A MINIMUM OF 15' FROM ANY LOT LINE.
  - TILE FIELD MUST BE A MINIMUM OF 100' FROM ANY STREAM, POND, OR CLASSIFIED WETLANDS.
  - WELL TO BE A MINIMUM OF 50' FROM SEPTIC TANK.
  - PERCOLATION TEST RESULTS @ 24"
  - SEWER RUNS SHALL NOT EXCEED 75' BETWEEN CLEANOUTS.
  - HEAVY EQUIPMENT SHALL BE KEPT OFF THE AREA OF THE TILE FIELD EXCEPT FOR THE ACTUAL CONSTRUCTION OF THE FIELD. THERE SHALL BE NO UNNECESSARY MOVEMENT OF EQUIPMENT IN THE AREA OF THE PROPOSED FIELD BEFORE, DURING, OR AFTER CONSTRUCTION.
  - NO SWIMMING POOLS, DRIVEWAYS, OR STRUCTURES WHICH MAY COMPACT THE SOIL SHALL BE LOCATED OVER ANY PORTION OF THE ABSORPTION FIELD.
  - THESE SEPTIC SYSTEMS ARE NOT DESIGNED TO ACCOMMODATE GARBAGE GRINDERS, WATER SOFTENERS OR JACUZZI TYPE TUBS OVER 100 GALLONS AS SUCH, THESE ITEMS SHALL NOT BE INSTALLED UNLESS THE SEWAGE DISPOSAL SYSTEM IS REDESIGNED TO ACCOUNT FOR THEM.
  - ANY CHANGE IN DIRECTION OF SOLID TILE SEWAGE PIPE OR A DISTANCE OF 75 FEET WILL REQUIRE A CLEANOUT.
  - THE TOWN OF WALLKILL SANITARY REVIEW ENGINEER SHOULD BE CONTACTED PRIOR TO CONSTRUCTION OF ANY SYSTEM, SO THAT INSTALLATION REVIEWS CAN BE SCHEDULED.
  - INSTALLATION OF BATHROOMS OR SINKS IN BASEMENT MAY REQUIRE SPECIAL DESIGN AND APPROVAL FROM THE TOWN OF WALLKILL.
  - SANITARY FACILITIES ARE NOT TO BE RELOCATED OR REDESIGNED WITHOUT THE APPROVAL OF THE TOWN OF WALLKILL.
  - CERTIFICATION THAT THE SEWAGE DISPOSAL SYSTEM INSTALLATION WAS MADE IN ACCORDANCE WITH THE APPROVED PLANS WILL BE MADE TO THE ORANGE COUNTY OFFICE OF THE NEW YORK STATE DEPARTMENT OF HEALTH AND THE LOCAL CODE ENFORCEMENT OFFICER.

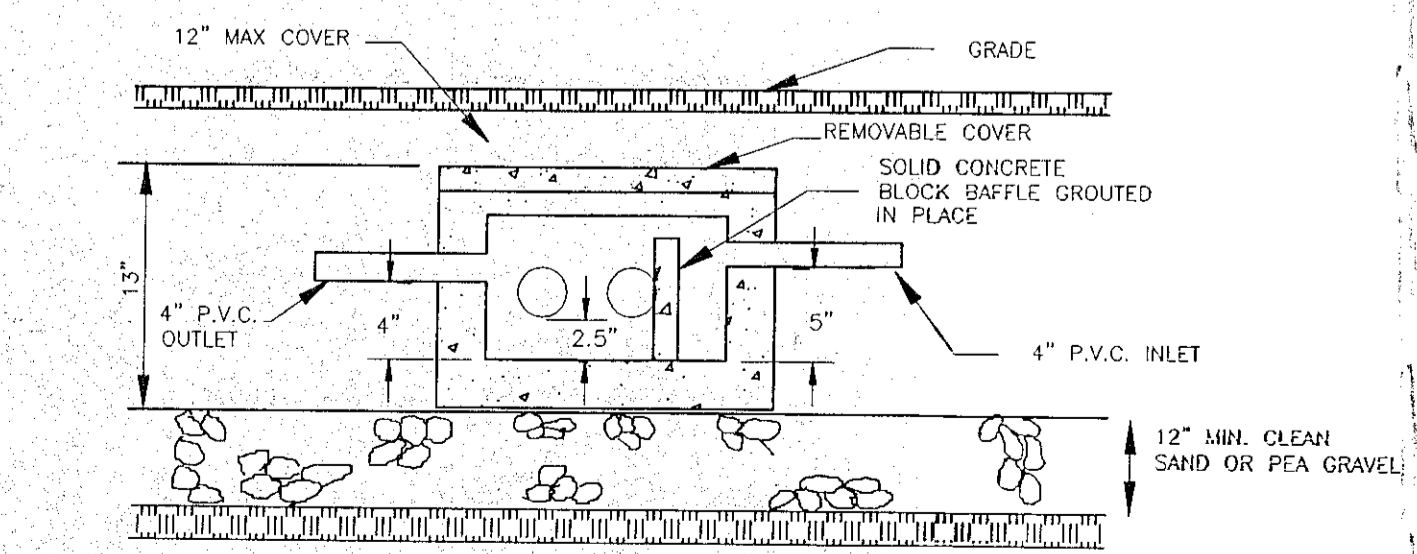
**PERCOLATION TEST RESULTS AND DESIGN CRITERIA**

LOT #	PERC RATE	DESIGN RATE	PROP TRENCH LENGTH	COMMENTS	
1	5	6-7	180	240	INFILTRATOR QUICK 4
2	11	11-15	240	300	EQUALIZER 36 CHAMBER

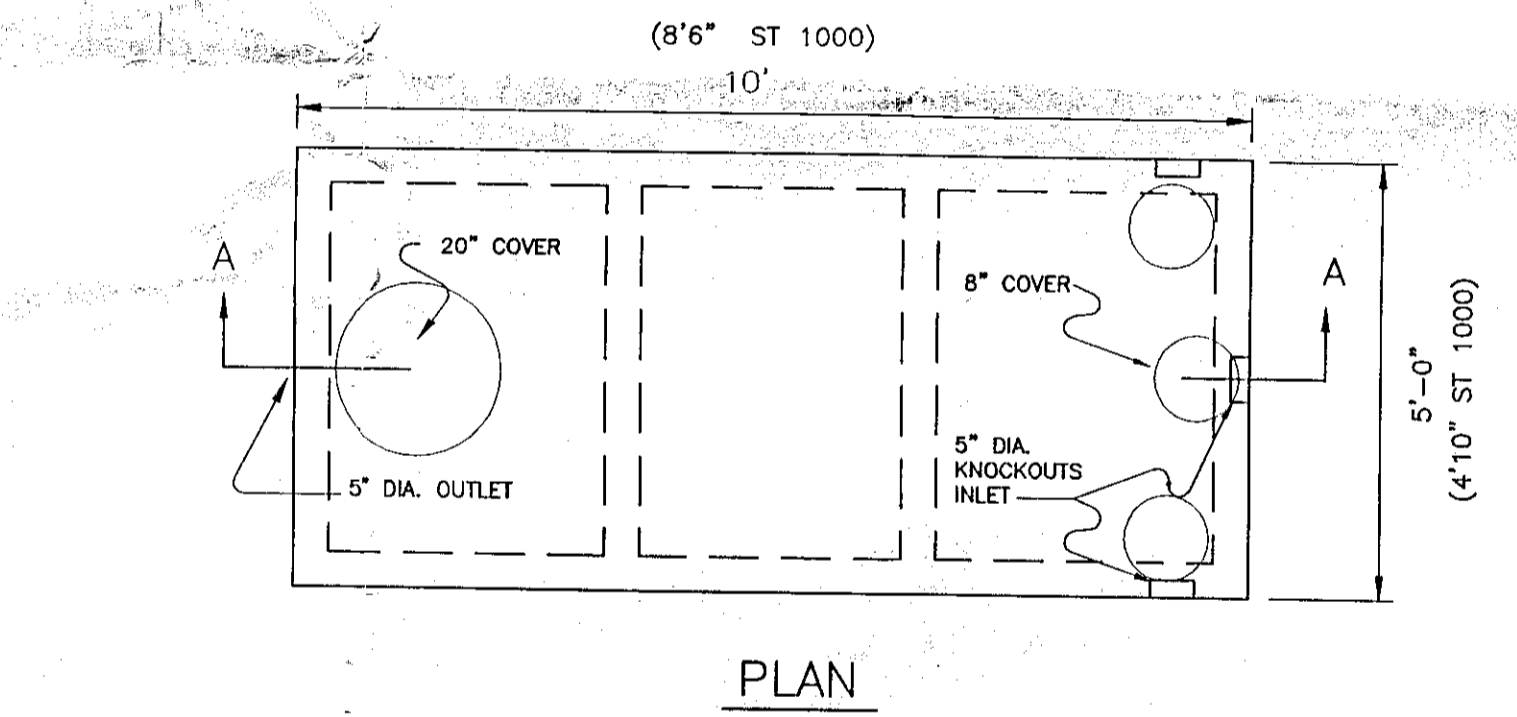
**TYPICAL WELL DETAIL**  
N.T.S.



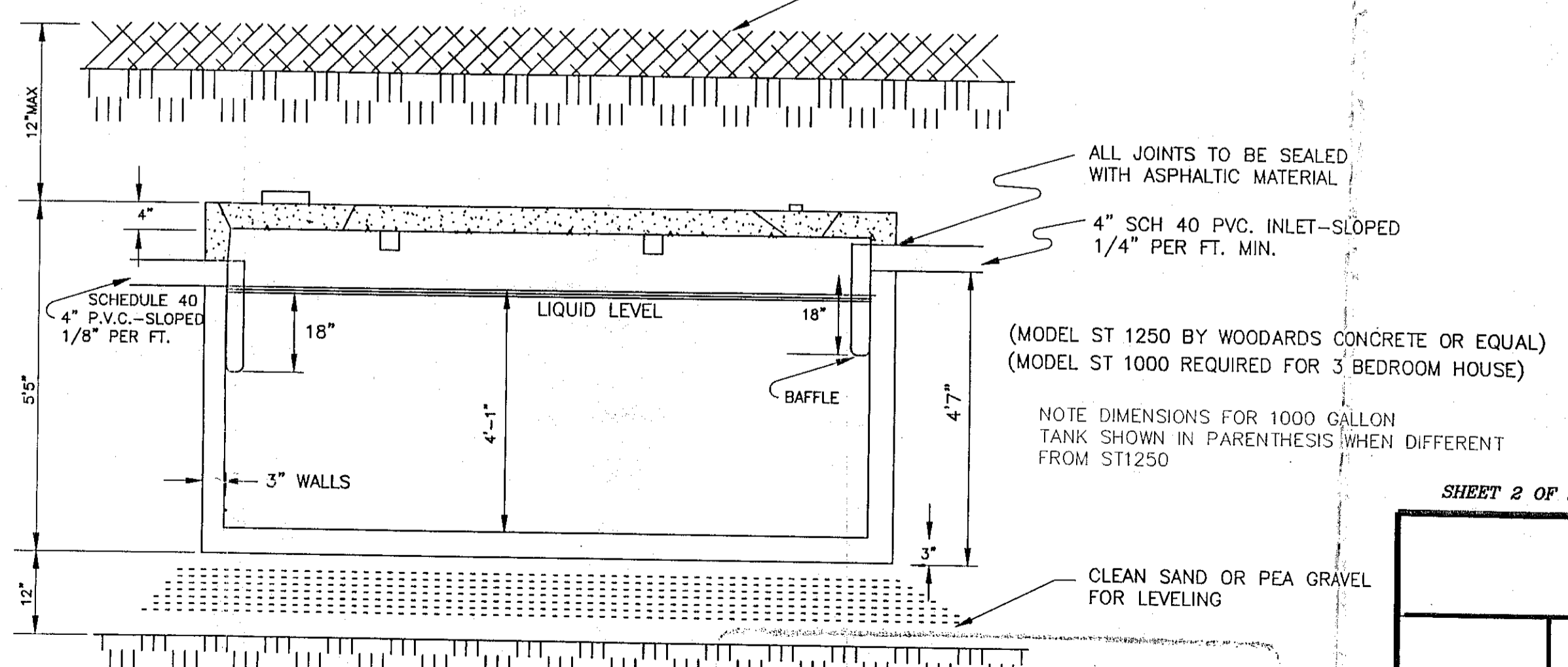
**PLAN**



**ENDVIEW DROPBOX**  
N.T.S.



**PLAN**



**SECTION A-A SEPTIC TANK DETAILS**  
N.T.S.

**1250 GALLON SEPTIC TANK**

FOR DATE 2/10/08  
2/14/08  
THOMAS P. PTAK  
N.Y.S. L.C. #058416

**SHEET 2 OF 2 IS INVALID AND INCOMPLETE, AND CANNOT BE FILED WITHOUT SHEET 1 OF 2**

**THOMAS P. PTAK, N.Y.S. P.E.**  
55 PETTICOAT LANE BLOOMINGBURG, NEW YORK 12721  
845-361-1931

**DANIEL P. YANOSH N.Y.S. L.S.**  
P.O. BOX 320 - 2194 N.Y.S. ROUTE 302  
CIRCLEVILLE, NEW YORK 10919  
PHONE #: (845) 361 - 4700 FAX #: (845) 361 - 4722

**DETAILS**  
LANDS OF:  
**ESPM LLC.**  
SHAWANGUNK ROAD, WELD ROAD AND GILLEN ROAD  
TOWN OF WALLKILL  
COUNTY OF ORANGE, STATE OF NEW YORK

**THOMAS P. PTAK**  
N.Y.S. L.C. #058416

**THOMAS P. PTAK**  
N.Y.S. L.C. #058416

SCALE: NOTED  
DATE: 12-21-2006  
JOB #: 2003-142  
PHASE 2