

SOIL TEST PIT LOG

EXCAVATED 09/13/2011 BY JOEL FRUEH
LOGGED BY JON ENDRES, PE & DAVE INGALLS, PE
TEMP 70°, SUNNY

TEST PIT #1 (SOUTHEAST CORNER, EAST OF TRAIL, 80' FROM SOUTH LINE)
0-3 DARK BROWN LOAM TOPSOIL
3-7 LIGHT BROWN LOAM
7-20 LIGHT ORANGE BROWN FINE SILTY SAND, FRIABLE
20-64 LIGHT ORANGE BROWN FINE SAND, MOTTLED, HEAVY STAINING, GRAY POCKETS,
FIRM TO DENSE, WET WITH DEPTH
64-84 GRAY VERY FINE SAND, SATURATED
WATER SEEPS @ 80"

TEST PIT #2 (AT PROPOSED DETENTION POND, 10' EAST OF WLF A-51)
0-4 BROWN LOAM
4-26 LIGHT BROWN SANDY LOAM
26-34 BLUE-GRAY MIXED LOAM, HEAVY ORGANICS
34-54 BRIGHT ORANGE-YELLOW SAND, FIRM, MOTTLED & STAINED
54-80 DARK BLUE-GRAY FINE SAND, SATURATED
WATER SEEPS @ 72"

TEST PIT #3
0-12 DARK BROWN LOAM
12-72 ORANGE-YELLOW FINE SAND, FIRM TO DENSE, MOTTLED @ APPROX. 54'-60"
72-90 GRAY FINE SAND, SATURATED
WATER SEEPS @ 90"

TEST PIT #4 (OFF EAST END OF PROPOSED POND)
0-14 DARK BROWN LOAM
14-78 LIGHT ORANGE BROWN FINE SAND, FIRM TO DENSE, MOTTLED @ APPROX. 54'-60"
78+ DARK BLUE-GRAY FINE SAND, SATURATED
WATER SEEPS @ 72"

TEST PIT #5 (CENTERED N-S ON PROPERTY, 90' FROM E. LINE)
0-8 LIGHT BROWN LOAM
8-14 YELLOW SANDY LOAM
14-80 LIGHT BROWN FINE SAND, FIRM TO DENSE, MOTTLED @ 20' +
80+ GRAY VERY FINE SAND, SATURATED
WATER SEEPS @ 80"

TEST PIT #6 (NEAR WETLANDS, SW CORNER)
0-3 DARK BROWN LOAM TOPSOIL
3-7 LIGHT BROWN LOAM
7-20 LIGHT ORANGE BROWN FINE SILTY SAND, FRIABLE
20-78 LIGHT ORANGE BROWN FINE SAND, MOTTLED, HEAVY STAINING, GRAY POCKETS,
FIRM TO DENSE, WET WITH DEPTH, ORGANIC POCKETS @ 60"
78+ LIGHT TAN, STREAKED GRAY, CLAY, WET
WATER SEEPS @ 21"

PERCOLATION TESTS

PT #1 - NEAR TP #4, 26" DEEP
MOVED < 1/8" IN 40 MINUTES

PT #2 - NEAR TP #5, 22" DEEP
MOVED 1/2" IN 64 MINUTES

PT #3* - (1) 5 MIN 30 SEC, (2) 7 MIN 30 SEC, (3) 8 MIN

PT #4* - (1) 3 MIN, (2) 3 MIN 45 SEC, (3) 4 MIN 5 SEC

*DATA REFLECTS THE TIME FOR WATER TO DROP 1"

WETLAND IMPACTS

NWP#29 - RESIDENTIAL DEVELOPMENTS

IMPACT AREA	AREA
1	3,100 SF (0.071 ACRES)
2	840 SF (0.019 ACRES)
3	200 SF (0.005 ACRES)
4	50 SF (0.001 ACRES)
5	1,880 SF (0.0432 ACRES)
TOTAL	6,070 SF (0.139 ACRES)

TEMPORARY WETLAND IMPACTS

NWP#12 - UTILITY LINE ACTIVITIES

IMPACT AREA	AREA
1	168 SF (0.004 ACRES)

LANDS N/F
MRDC KENDALL, LLC &
KENDALL DHC, LLC
L. 2967 P. 708
'KENDALL SQUARE HAMLET'

EXISTING
71 LF.
36X59" CMP
ARCH PIPE
@ 2.25%

EXISTING
554'22"10'E
EX. SIGNAL
L. 2967 P. 708
EX. 6" D.I.P. WATERMAIN
@ 0.50%

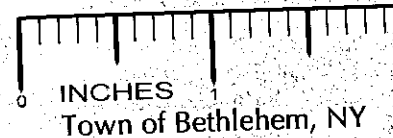
EX. 220LF
8" PVC
@ 0.50%

KENDALL DRIVE

TOWN STORMWATER
MANAGEMENT POND A

LANDS N/F
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'KENDALL SQUARE HAMLET'



NOTE
DOWNSPOUTS SHALL BE EQUIPPED WITH SPLASH
PADS TO INCREASE FLOW DISPERSION



LEGEND	
PROPERTY LINE	---
ADJACENT PROPERTY LINE	---
PROPOSED BUILDING ADDRESS	36
PROPOSED BUILDING NUMBER	1
EXISTING TREELINE	---
EXISTING CONTOUR	---
PROPOSED CONTOUR	---
EXISTING HYDRANT	HYD
EXISTING UTILITY POLE	NG 19
EXISTING SIGN	---
EXISTING CATCH BASIN	---
EXISTING SANITARY MANHOLE	---
EXISTING SANITARY SEWER	---
EXISTING STORM SEWER	---
EXISTING WATERMAIN	---
EXISTING OVERHEAD WIRE	OH
WETLAND BOUNDARY	---
PROPOSED IMPACT	---
PROPOSED CLEARING LIMITS	---
PROPOSED STORM SEWER	---
PROPOSED WATERMAIN	---
PROPOSED HYDRANT	---
PROPOSED VALVE	---
PROPOSED GRINDER PUMP	---
PROPOSED LPSS FORCEMAIN	---
PROPOSED SANITARY MANHOLE	---
TEST PIT LOCATIONS	---
PERC TEST LOCATIONS	---
RIP-RAP OUTLET PROTECTION	---
PROPOSED LIGHT POLE	---
PRESERVATION AREA	---

Town of Bethlehem Planning Board
By direction of the Chairman
these plans are hereby Approved.
See first sheet for date & signature.

ALBANY COUNTY DEPT. OF HEALTH
DATE NOV 29 2012

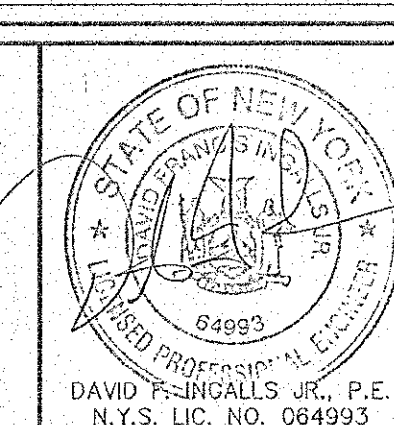
These plans for Sewage Disposal
and Water System Improvements.
Examined and Approved

DIRECTOR, DIVISION OF ENVIRONMENTAL
HEALTH SERVICES

NOTE: 48 HOURS PRIOR TO ANY CONSTRUCTION
ACTIVITIES, THE CONTRACTOR SHALL CONTACT
DIG SAFELY NEW YORK TO LOCATE ALL
UNDERGROUND UTILITIES. 1-800-962-7962

NO.	DATE	REVISIONS	BY
9	9/27/12	FINAL SUBMISSION	PJY
8	8/24/12	FINAL SUBMISSION	PJY
7	7/10/12	REVISIONS PER 7/3/12 TDE COMMENT LETTER	PJY
6	6/26/12	REVISIONS PER TOWN PLANNING COMMENTS	PJY
5	6/14/12	REVISED PER TOWN ENG. & PLANNING COMMENTS	PJY
4	5/30/12	REVISED PER TOWN COMMENT LETTER DATED 5/29/12	PJY
3	5/15/12	REVISIONS PER TOWN COMMENTS	PJY
2	3/13/12	REVISIONS PER TOWN AND TDE COMMENTS	PJY
1	1/27/12	REVISIONS PER TOWN AND TDE COMMENTS	PJY

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GRADING & UTILITY PLAN	
32 UNIT MULTI-FAMILY DEVELOPMENT 605 FEURA BUSH ROAD	
TOWN OF BETHLEHEM COUNTY OF ALBANY STATE OF NEW YORK	
DATE: SEPTEMBER 20, 2011	CHECKED BY: D.F.I. JOB NO. 11-090
DRAWN BY: P.J.Y.	SCALE: 1" = 30'
CADD FILE: 110900F	SHEET 4 OF 12