PERCOLATION RATE DATA:
P-3
PRESOAK 11:40 – DRY AT START

TIME	READING
12:27	17½"
12:37	19½"
12:47	22"
12:57	23"
13:07	24"
13:17	25⅜"

PERC RATE: 10 MIN/IN
FOR DESIGN USE <10.1 MIN/IN

P-4
PRESOAK 11:30 – DRY AT START

TIME	READING
13:23	11"
13:33	13½"
13:43	14⅜"
13:53	15¾"
14:03	17"
14:13	DRY

PERC RATE: 8 MIN/IN
FOR DESIGN USE <10.1 MIN/IN

PERCOLATION TESTS WERE CONDUCTED BY JOHN R. MARTUCCI, P.E.
DECEMBER 12, 2007

BUILDING 3 BASIS OF SANITARY DESIGN:
OFFICE: 200 SF/EMPLOYEE x 20 GPD = 0.1 GPD/SF
WAREHOUSE (FACTORY) = 25 GPD W/O SHOWERS
35 GPD W/ SHOWERS

BUILDING 3 TOTAL 22,500 SF:
(6,000 SF OFFICE = 600 GPD) + (WAREHOUSE: 20 EMPLOYEES W/ SHOWERS = 700 GPD) = 600 + 700 = 1,300 GPD

RESTRICTIVE LAYER 30", S = 3.3% – HF=34
PERC RATE 10 MIN/IN – PF = 1.2
FF TOTAL = 1300/300 = 4.33, MLSS = 34 x 1.2 x 4.33 = 177"

BUILDING 3 PARKING CALCULATION:
(6,000 SF OFFICE / 200 SF/EMPLOYEE = 30 EMPLOYEES)
+ (WAREHOUSE: 20 EMPLOYEES) = 50 EMPLOYEES
50 EMPLOYEES x 0.66 SPACES PER EMPLOYEE
= 34 SPACES REQUIRED – 40 SHOWN.

DEEP TEST PIT DATA:
LOT 35 – TEST PIT #7
0–17" TOPSOIL
17–24" BLACK ORGANIC
24–44" ORANGE/BROWN SILTY LOAM
44–96" GRAY/BROWN SILTY SAND, SOME GRAVEL
MOTTLING: 44"
GROUND WATER: NONE
REFUSAL: NONE

LOT 35 – TEST PIT #8
0–18" TOPSOIL
18–32" ORANGE/BROWN SILTY LOAM
32–98" GRAY/BROWN SILTY SAND, SOME GRAVEL
MOTTLING: 32"
GROUND WATER: NONE
REFUSAL: NONE

LOT 35 – TEST PIT #9
0–16" TOPSOIL
16–20" BLACK ORGANIC
20–30" ORANGE/BROWN SILTY SAND
30–100" GRAY/TAN SILTY SAND
MOTTLING: 30"
GROUND WATER: NONE
REFUSAL: NONE

LOT 36 – TEST PIT #10
0–14" TOPSOIL
14–30" GRAY SAND W/ ROCKS
30–108" GRAY FINE SAND
MOTTLING: NONE VISIBLE
GROUND WATER: NONE
REFUSAL: NONE

LOT 36 – TEST PIT #11
0–14" TOPSOIL
14–40" BROWN GRAY SILTY LOAM W/ ROCKS
40–98" GRAY FINE SAND
MOTTLING: NONE VISIBLE
GROUND WATER: NONE
REFUSAL: NONE

LOT 36 – TEST PIT #12
0–14" TOPSOIL
14–20" GRAY SAND W/ROCKS
20–98" GRAY SAND
MOTTLING: NONE VISIBLE
GROUND WATER: NONE
REFUSAL: NONE

DEEP TEST PITS WERE EXCAVATED ON OCTOBER 6, 2007 AND WITNESSED BY RON CHALECKI TOWN OF FRANKLIN SANITARIAN

DEEP TEST PIT DATA:
TEST PIT #A3
0–24" TOPSOIL & LOAM
24–80" COARSE SAND & GRAVEL
MOTTLING: INDISTINCT
GROUND WATER: 60"
REFUSAL: NONE

TEST PIT #A4
0–8" TOPSOIL
8–64" COARSE SAND & GRAVEL
MOTTLING: INDISTINCT
GROUND WATER: NONE
REFUSAL: NONE

TEST PIT #A5
0–9" TOPSOIL
9–85" COARSE SAND & GRAVEL
MOTTLING: INDISTINCT
GROUND WATER: NONE
REFUSAL: NONE

DEEP TEST PITS A1 – A7 WERE EXCAVATED ON MAY 25, 2007 AND WITNESSED BY JOHN MARTUCCI, P.E.

BUILDING 4 BASIS OF SANITARY DESIGN:
OFFICE: 200 SF/EMPLOYEE x 20 GPD = 0.1 GPD/SF
WAREHOUSE (FACTORY) = 25 GPD W/O SHOWERS
35 GPD W/ SHOWERS

BUILDING 4 TOTAL 16,800 SF:
(8,400 SF OFFICE = 840 GPD) + (WAREHOUSE: 8 EMPLOYEES W/O SHOWERS = 200 GPD) = 840 + 200 = 1,040 GPD

RESTRICTIVE LAYER > 98" MLSS NOT REQUIRED
PERC RATE 10 MIN/IN – APPLICATION RATE = 1.5 GPD/SF
EFFECTIVE LEACHING REQD. = 1,040/1.5 = 694 SF
144' OF 24" GALLEYS SHOWN (144 x 6.8 = 979 SF)

BUILDING 4 PARKING CALCULATION:
(8,400 SF OFFICE / 200 SF/EMPLOYEE = 42 EMPLOYEES)
+ (WAREHOUSE: 8 EMPLOYEES) = 50 EMPLOYEES
50 EMPLOYEES x 0.66 SPACES PER EMPLOYEE
= 34 SPACES REQUIRED – 35 SHOWN.

GRAPHIC SCALE
40 0 20 40 80 160
(IN FEET)
1 inch = 40 ft.

FRANKLIN BUSINESS PARK

GRADING AND EROSION & SEDIMENTATION CONTROL PLAN

CONN. ROUTE 87 & MURPHY ROAD FRANKLIN, CONNECTICUT

PREPARED FOR
HUGH A. SCHNIP
SCALE: 1" = 40'

PREPARED BY
LBM ENGINEERING, LLC
PO BOX 44
COLCHESTER, CONNECTICUT
860-416-9809
DATE: AUGUST 1, 2007

SHEET 4 OF 8

REVISIONS:	
DATE	COMMENT
09/05/2007	STAFF COMMENTS
09/13/2007	STORM DRAIN INVERTS
11/20/2007	P&Z SUBMITTAL
01/11/2008	PER WETLANDS CONDITIONS
02/01/2008	PER TOWN COMMENTS
03/18/2008	PER TOWN COMMENTS

SITE PLAN NOTES:
THE PURPOSE OF THIS PLAN IS TO SHOW CONCEPTUAL LAYOUT OF POSSIBLE FUTURE DEVELOPMENT. INDIVIDUAL SITE PLAN APPLICATIONS SHALL BE REQUIRED FOR EACH LOT FOR APPROVAL BY THE PLANNING & ZONING COMMISSION.

ADDITIONAL SOIL TESTING MAY BE REQUIRED AT THE TIME OF INDIVIDUAL SITE PLAN APPLICATIONS.

PROPOSED EASEMENTS WILL BE DEFINED AT THE TIME OF INDIVIDUAL SITE PLAN APPLICATIONS.