



BASIS OF DESIGN

COMMERCIAL OFFICE APPLICATION
 # EMPLOYEES = 15, INCLUDES FUTURE PROJECTION
 USE NYSDEC TABLE B-3, PER-UNIT LOADING RATE = 15 GPD/EMPLOYEE
 Q = 15 EMPLOYEES x 15 GPD/EMPLOYEE
 SANITARY FLOW, Q = 225 GPD

USE NYSDEC TABLE D-2, MINIMUM SEPTIC TANK CAPACITY = 1,000 GALLONS
 USE: 1,000 GALLON 2-COMPARTMENT CONCRETE SEPTIC TANK
 WITH MINIMUM LIQUID SURFACE AREA OF 27.0 SF

ABSORPTION BED SYSTEM DESIGN:
 USE NYSDEC DESIGN PARAMETERS AND STANDARD DETAILS
 USE TABLE E-1, SEWAGE APPLICATION RATE = 1.20 GPD/SF
 PERCOLATION RATE = 1 MINUTE 30 SECONDS PER INCH
 ABSORPTION BED APPLICATION RATE = 1.20 GPD/SF x 75%
 APPLICATION RATE = 0.9 GPD/SF

USE FIGURE E-7, STANDARD ABSORPTION BED WIDTH = 15 FT.

REQUIRED ABSORPTION BED BOTTOM AREA
 AREA = 225 GPD / 0.90 GPD/SF
 AREA = 250 SF

USE: 15 FT. WIDE x 17 FT. LONG ABSORPTION BED

SOILS REPORT

OBSERVATION REPORT OF DEEP HOLE TEST PITS AND PERCOLATION TESTING BY DAVID W. MAGURK, PE, NOVEMBER 26, 2013.

TEST PIT 1 (TP-1):
 0"-6" BROWN HUMUS/ROOTS
 6"-25" BROWN SANDY LOAMS, NO STONES
 25"-60" PALE BROWN SANDY LOAMS
 FEW SMALL STONES

NO S.H.G.W. OR LEDGE ROCK TO DEPTH

TEST PIT 2 (TP-2):
 0"-6" BROWN HUMUS/ROOTS
 6"-32" PALE OR/BROWN SANDY LOAMS
 32"-72" OR/BR SANDY LOAMS

HARD PAN @ 72"
 NO S.H.G.W. OR LEDGE ROCK TO DEPTH

TEST PIT 3 (TP-3):
 0"-6" BROWN HUMUS/ROOTS
 6"-43" OR/BROWN SANDY LOAMS, NO STONES
 43"-65" BROWN SANDY LOAMS
 FEW SMALL STONES

NO S.H.G.W. OR LEDGE ROCK TO DEPTH

PERCOLATION TEST 3 (PT-3):
 STABILIZED PERCOLATION RATE = 1 MIN. 20 SECONDS

PERCOLATION TEST 1 (PT-1):
 STABILIZED PERCOLATION RATE = 1 MIN. 30 SECONDS

PERCOLATION TEST 2 (PT-2):
 STABILIZED PERCOLATION RATE = 1 MIN. 30 SECONDS

PERCOLATION TEST 4 (PT-4):
 STABILIZED PERCOLATION RATE = 1 MIN. 40 SECONDS

NOTE:
 THE PLANS SHOW SUBSURFACE STRUCTURES, ABOVE GROUND STRUCTURES AND/OR UTILITIES FROM FIELD LOCATION AND RECORD MAPPING, EXACT LOCATION OF WHICH MAY VARY FROM THE LOCATIONS INDICATED. IN PARTICULAR, THE CONTRACTOR IS WARNED THAT THE EXACT LOCATION OF SUCH SUBSURFACE STRUCTURES AND/OR UTILITIES IN THE AREA MAY BE DIFFERENT THAN SHOWN OR MAY NOT BE SHOWN, AND SHALL BE HIS RESPONSIBILITY TO PROCEED WITH GREAT CARE IN EXECUTING ANY WORK. 48 HOURS BEFORE YOU DIG, DRILL, OR BLAST CALL THE NEW YORK ONE CALL SYSTEM 1-(800)-962-7962 TOLL FREE.

SURVEY MAP REFERENCE: THE BASE MAP INFORMATION WAS OBTAINED FROM A TOPOGRAPHICAL MAP, DATED MARCH 2, 2014, PREPARED BY ALAN LATOURELLE, L.S., SARANAC LAKE, NY.

Bench Mark
 PK Nail South Side
 Pole NM 88-2
 Elevation = 102.21'
 (assumed)

Bench Mark
 RR Spike in
 East Side of
 Pole NM 8-3
 Elevation = 102.66
 (assumed)

EXISTING WAREHOUSE
 19,950 S.F.

PROPOSED
 WAREHOUSE
 ADDITION
 12,880 S.F.

DECOMMISSION EXISTING
 ON-SITE SEWAGE DISPOSAL
 SYSTEM (SEE NOTES)

RELOCATE EXISTING
 PROPANE STORAGE TANK

FINAL PLANS
 ADIRONDACK PARK AGENCY
 P. 2014 - 14
 DATE: April 30, 2014

RECEIVED
 APR 25 2014
 Adirondack Park Agency

DATE	BY	REVISIONS
4/17/14 <td>KLH <td>1 RESPOND TO A.P.A. COMMENTS 4/3/14</td> </td>	KLH <td>1 RESPOND TO A.P.A. COMMENTS 4/3/14</td>	1 RESPOND TO A.P.A. COMMENTS 4/3/14
		2
		3
		4
		5
		6
		7

Unauthorized alteration
 or violation of section 8
 7209 of the New York
 State Education Law

PROJECT ENGINEER
 DWG
 PROJECT MANAGER
 DWG
 DEPT./AFFILIATE/MANAGER
 DWG
 DRAWN BY
 KLH
 SCALE
 AS NOTED
 DATE ISSUED
 14 MAR 2014



DAVID W. MAGURK, P.E.
 Consulting Engineers
 8 Johnson Avenue, P.O. Box 1656
 Lake Placid, New York 12946
 Phone/Fax: (518) 523-4287

PROJECT
 1016 SARANAC PROPERTIES LLC
 HIGH PEAKS BEVERAGE
 TOWN OF SAINT ARMAND
 SARANAC LAKE, NEW YORK

TITLE OF DRAWING
 WASTEWATER TREATMENT SYSTEM PLAN

DRAWING NO.
 L-1