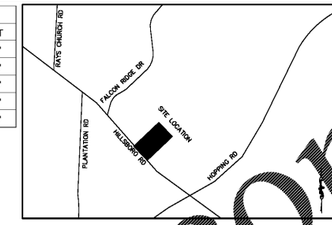
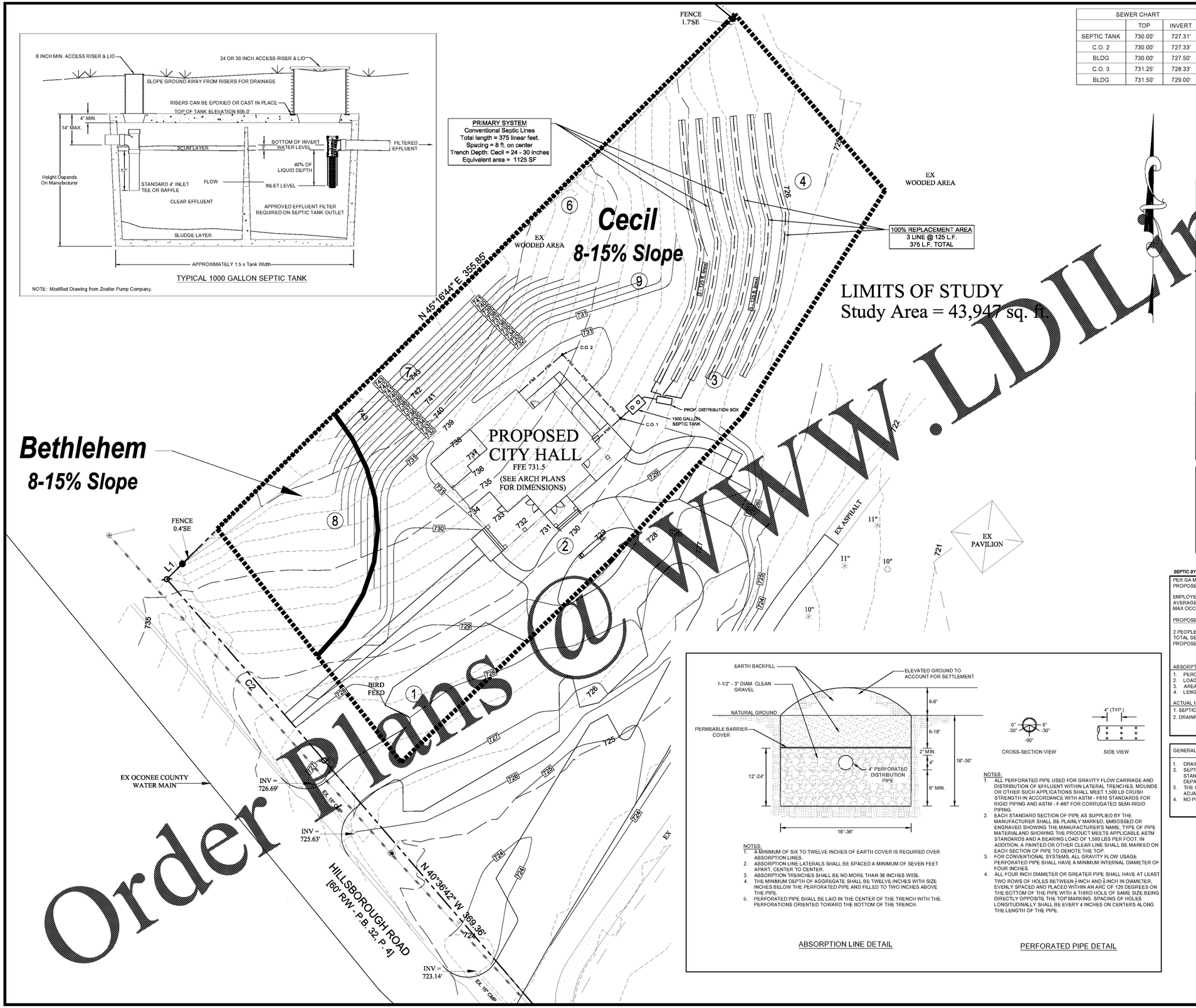
TYPICAL 1000 GALLON SEPTIC TANK

NOTE: Modified Drawing from Zoeller Pump Company.

SEWER CHART		
	TOP	INVERT
SEPTIC TANK	730.00'	727.31'
C.O. 2	730.00'	727.33'
BLDG	730.00'	727.50'
C.O. 3	731.25'	728.33'
BLDG	731.50'	729.00'



LOCATION MAP
SCALE: N.T.S.



Order Plans @ www.LDILine.com

NOTES:
1. A MINIMUM OF SIX TO TWELVE INCHES OF EARTH COVER IS REQUIRED OVER ABSORPTION LINES.
2. ABSORPTION LINE LATERALS SHALL BE SPACED A MINIMUM OF SEVEN FEET APART, CENTER TO CENTER.
3. ABSORPTION TRENCHES SHALL BE NO MORE THAN 36 INCHES WIDE.
4. THE MINIMUM DEPTH OF AGGREGATE SHALL BE TWELVE INCHES WITH SIZE INCHES BELOW THE PERFORATED PIPE AND FILLED TO TWO INCHES ABOVE THE PIPE.
5. PERFORATED PIPE SHALL BE LAID IN THE CENTER OF THE TRENCH WITH THE PERFORATIONS ORIENTED TOWARD THE BOTTOM OF THE TRENCH.

ABSORPTION LINE DETAIL

NOTES:
1. ALL PERFORATED PIPE USED FOR GRAVITY FLOW CARRIAGE AND DISTRIBUTION OF EFFLUENT WITHIN LATERAL TRENCHES, MOUNDS OR OTHER SUCH APPLICATIONS SHALL MEET 1,500 LB CRUSH STRENGTH IN ACCORDANCE WITH ASTM - F810 STANDARDS FOR RIGID PIPING AND ASTM - F-667 FOR CORRUGATED SEMI-RIGID PIPING.
2. EACH STANDARD SECTION OF PIPE AS SUPPLIED BY THE MANUFACTURER SHALL BE PLAINLY MARKED, EMBOSSED OR ENGRAVED SHOWING THE MANUFACTURER'S NAME, TYPE OF PIPE MATERIALAND SHOWING THE PRODUCT MEETS APPLICABLE ASTM STANDARDS AND A BEARING LOAD OF 1,500 LBS PER FOOT. IN ADDITION, A PAINTED OR OTHER CLEAR LINE SHALL BE MARKED ON EACH SECTION OF PIPE TO DENOTE THE TOP.
3. FOR CONVENTIONAL SYSTEMS, ALL GRAVITY FLOW USAGE PERFORATED PIPE SHALL HAVE A MINIMUM INTERNAL DIAMETER OF FOUR INCHES.
4. ALL FOUR INCH DIAMETER OR GREATER PIPE SHALL HAVE AT LEAST TWO ROWS OF HOLES BETWEEN ⅜ INCH AND ½ INCH IN DIAMETER, EVENLY SPACED AND PLACED WITHIN AN ARC OF 120 DEGREES ON THE BOTTOM OF THE PIPE WITH A THIRD HOLE OF SAME SIZE BEING DIRECTLY OPPOSITE THE TOP MARKING. SPACING OF HOLES LONGITUDINALLY SHALL BE EVERY 4 INCHES ON CENTERS ALONG THE LENGTH OF THE PIPE.

PERFORATED PIPE DETAIL

PROJECT NOTES:

OWNER / DEVELOPER:
TOWN OF NORTH HIGH SHOALS
P.O. Box 129
North Shoals GA 30642
Contact: Toby Smith
Tel: (706) 769-4251

ENGINEER:
Carter Engineering Consultants, Inc.
3651 Mars Hill Road, Suite 2000
Watkinsville, Georgia 30677
Contact: Mark Campbell, P.E.
Tel: (770) 725-1200
mark@carterengineering.net

Property located at 260 Hillsboro Rd, Town Of North High Shoals, Oconee County, Ga.

Current Zoning: GOV.

Setbacks: Front 40' Rear 0' Side 0'

Proposed use is a town Hall

Proposed building height is 20'

Boundary and topographical information obtained from field run survey by Dodson-Thompson-Mansfield, PLLC Dated: January 12, 2017 Phone (405) 601-7402

Project tract contains 22.15 acres, disturbed area = 1.26 acres

Contour interval is 1 foot (NAVD 88)

The property shown hereon does not lie within a 100 year flood plain according to Flood Insurance Rate Map # 40017C0410H dated: SEPTEMBER 28, 2009

The underground utilities shown hereon have been located from field information and existing drawings. The surveyor nor engineer warrants that the underground utilities shown comprise all such utilities in the area, either in service or abandoned. The surveyor nor engineer warrants that the underground utilities shown are in the exact location indicated. The surveyor nor engineer has physically located all the underground utilities.

It is the responsibility of the contractor to field locate all utilities prior to commencing work and notify engineer if a discrepancy is found.

The contractor shall verify the invert elevations of all existing storm and sanitary sewer structures prior to commencement of storm and sanitary sewer construction.

UNDERGROUND UTILTIES DISCLAIMER

Information regarding the reputed presence, size, character and location of existing underground utilities and structures related to underground utilities is shown heron. There is no certainty of the accuracy of this information and it shall be considered in that light by those using this drawing. The location and arrangement of underground utilities and structures related to underground utilities shown hereon may be inaccurate and utilities and structures related to underground utilities not shown may be encountered. The owner, his employees, his consultants and his contractors shall hereby distinctly understand that the surveyor is not responsible for the correctness or sufficiency of this information regarding the underground utilities and structures related to underground utilities shown hereon.

SEPTIC SYSTEM 1: SEPTIC TANK CALCULATIONS:

PER GA MANUAL FOR ON-SITE SEWAGE MANAGEMENT SYSTEMS:
PROPOSED TOWN HALL = 25 GPD / PERSON

EMPLOYEES = 2 @ 30 GPD
AVERAGE PARK VISITORS = 25 @ 10 GPD
MAX OCCUPANCY = 54 @ 7 GPD

PROPOSED TOWN HALL SEWAGE CALCULATIONS:

2 PEOPLE * 30 GPD + 25 PEOPLE *10 GP/PERSON + 54 PEOPLE * 7 GPD= 688 GPD
TOTAL SEWAGE FLOW = 688 GPD
PROPOSED 1000 GALLON SEPTIC TANK

ABSORPTION / DRAINFIELD CALCULATIONS:

1. PERC. RATE = 65 MIN / INCH
2. LOADING FACTOR (C) = 5 / (65) ^ 0.5 = 0.620 GAL/ S.F.
3. AREA = 688 GALLONS / 0.620 GAL/ S.F. = 1109.7 S.F.
4. LENGTH = 1109.7 S.F. / 3 FEET = 369.9 L.F.

ACTUAL INSTALLATION:

1. SEPTIC TANK: (1) 1,000 GALLON SEPTIC TANK
2. DRAINFIELD LENGTH = TOTAL = 375 L.F. (3 LINES @ 125 L.F. EACH)

GENERAL NOTES:

1. DRAINFIELD TRENCH WIDTH MINIMUM OF 3 FEET WITH SPACING OF 8 FEET.
2. SEPTIC TANK AND DRAINFIELD INSTALLATION SHALL MEET ALL CURRENT STANDARDS, REQUIREMENTS, SPECIFICATIONS AND POLICIES OF THE DEPARTMENT OF ENVIRONMENTAL HEALTH, OCONEE COUNTY, GA
3. THE CLOSEST WELL IS OVER 200 FT FROM THE PROPOSED DRAINFIELD. ADJACENT PROPERTY ON CITY WATER.
4. NO PROPOSED GRADING IN THE PROPOSED SEPTIC DRAINFIELD AREA.

Know what's below
Call before you dig
dial 811

20' 10' 0 20' 40' 60'
GRAPHIC SCALE
SCALE 1" = 20'

REVISION BLOCK:

#	DATE	DESCRIPTION
C	03/07/17	MAYOR & COUNCIL REVIEW
D	04/14/17	FULL SUBMITTAL
E	09/07/17	ADDRESS COMMENTS
F	10/24/17	ADDRESS COMMENTS
G	11/17/17	RFP DOCUMENT

PRELIMINARY
NOT FOR CONSTRUCTION
Not approved for construction

CARTER ENGINEERING CONSULTANTS

Carter Engineering Consultants, Inc.
3651 Mars Hill Road, Suite 2000
Watkinsville, GA 30677
P: 770.725.1200
F: 770.725.1204
www.carterengineering.net

SITE DEVELOPMENT PLANS for TOWN OF NORTH HIGH SHOALS

260 HILLSBORO RD, TOWN OF NORTH HIGH SHOALS, OCONEE COUNTY, GA.

PROJECT NAME: NORTH HIGH SHOALS TOWN HALL

SHEET TITLE: SEPTIC PLAN

SHEET NUMBER: 5

PROJECT NUMBER: 14002NHS

DATE: 09/07/17