IREDELL COUNTY HEALTH DEPARTMENT

Statesville Office (704) 878-5305 Mooresville Office (704) 660-3625

IMPROVEMENT PERMIT / AUTHORIZATION TO CONSTRUCT / OPERATION PERMIT / EXISTING SYSTEM

PERMIT # 20715

APPLICANT: S & ME Engineering

PIN # 4758543663

SITE ADDRESS: 1919 Turnersburg Hwy

APPLICANT ADDRESS: 385 Timber Rd.

SITE DIRECTIONS: Hwy 21 N Property on Left just before Fairmount Rd.

PHONE: 704-662-8625 ALT. PHONE: N/A

SUBDIVISION: N/A

SECTION: N/A LOT # N/A LOT AREA: 516 acres

DESIGN FLOW: 500gpd L.T.A.R.: 0.35

Septic Tank	1000 (gal)	STB	Date		
Pump Tank	(gal)	PT	Date		
Pump Make		Model	Serial #		
# Nitrification Fields	1	# Lines	3	Linear Ft:	360
Trench Width	36"	Max. Trench Bottom Depth	36"	Gravel Depth	N/A

☑ New System ☐ Repair ☐ Expansion System Type: I II (III) IV V VI

System Description: 25% Reduction

Repair System Description: 25% Reduction

Maintenance Agreement Required: ☐ YES ☑ NO

☑ GRAVITY ☐ PRESSURE

☐ Residence No. Bedrooms

☐ Business ☑ Other Environ' Center No. Persons 62 No. Employees

☐ Slab ☐ Crawl Space

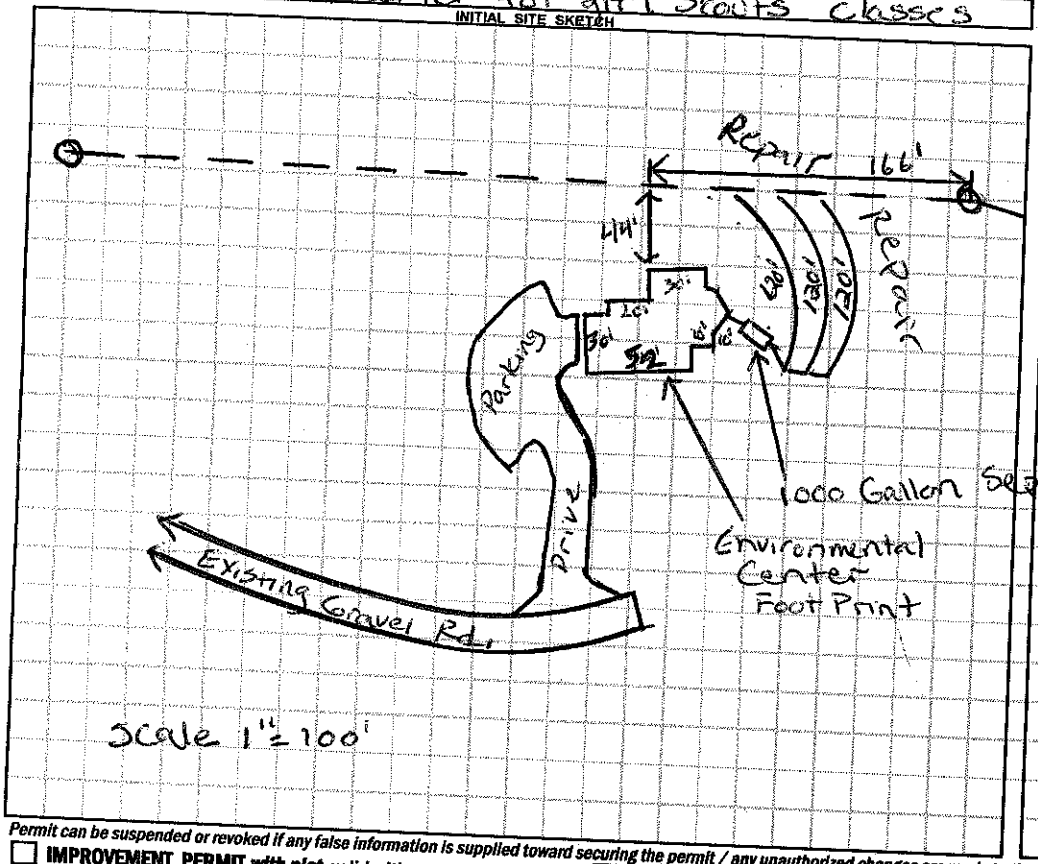
☐ Basement w/plumbing ☐ Basement w/o plumbing

Water Supply: ☐ Private ☑ Public ☐ Community

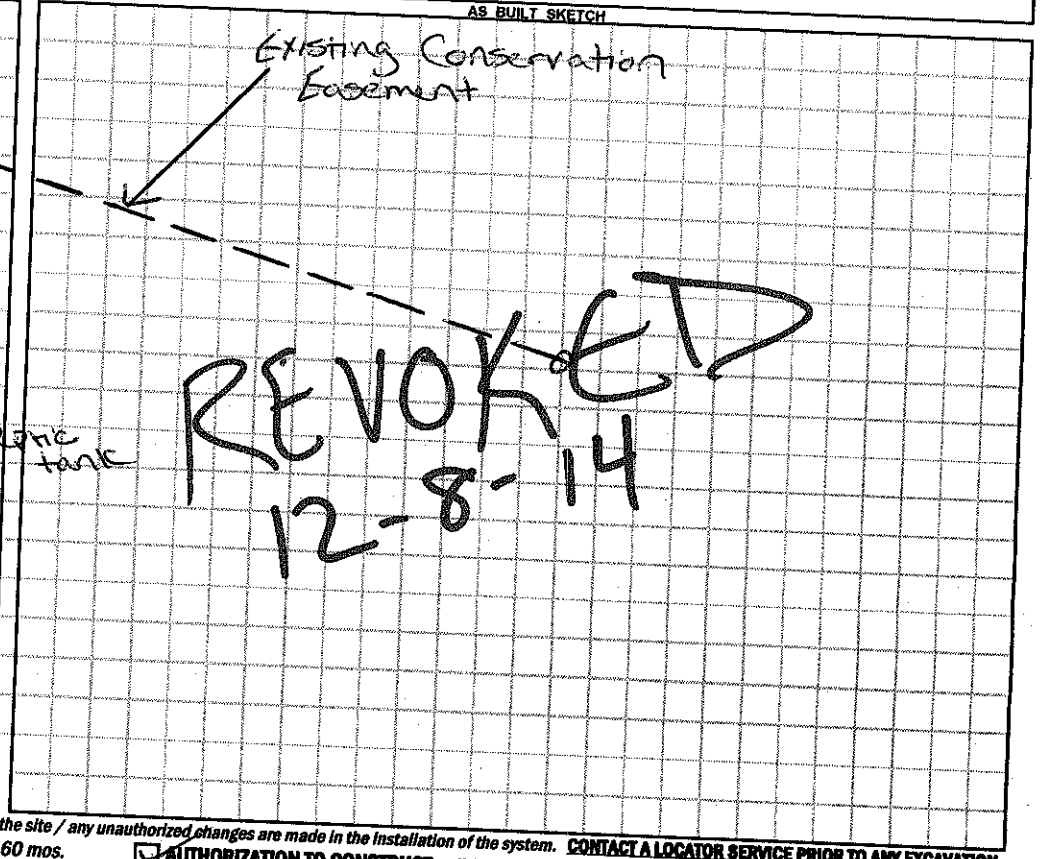
Comments / Conditions: Install a 25% Reduction system on contour with serial distribution. Design Flow reduction of 8gpd/person for Environmental Center for girl Scouts classes

approved by Trish Angell

INITIAL SITE SKETCH



AS BUILT SKETCH



Permit can be suspended or revoked if any false information is supplied toward securing the permit / any unauthorized changes are made to the site / any unauthorized changes are made in the installation of the system.

☐ **IMPROVEMENT PERMIT** *with plat valid without expiration.* ☑ **IMPROVEMENT PERMIT** *with site plan valid for 60 mos.* ☑ **AUTHORIZATION TO CONSTRUCT** *valid for period equal to IMPROVEMENT PERMIT--not to exceed 60 mo.* **CONTACT A LOCATOR SERVICE PRIOR TO ANY EXCAVATION**

Owner / Applicant Signature: [signature] Date: 7-21-14

IMPROVEMENT PERMIT by: Justin Henderson Date: 7-18-14

AUTHORIZATION TO CONSTRUCT by: Justin Henderson Date: 7-18-14

Installed by:

OPERATION PERMIT by: Date:

Existing System Inspected by: Date:

Health Dept. Copy - WHITE Applicant (Final Approval) - YELLOW Applicant (Conditional Approval) - PINK

PIEDMONT DESIGN ASSOCIATES, P.A.
Suite 101 Westfield Center
125 East Plaza Drive
Mooresville, North Carolina 28115-8812
Telephone (704) 664-7888 Fax (704) 664-1778

Engineering
Surveying
Planning

Project: **2014 Oak Springs GSC Septic System**

Job No.

Date: 02/06/2014 Revision Date: 02/07/2014

Design Data

400.00	Campers
8.00	G/D/Camper (Adjusted flow based on data)
3,200.00	G/D
50.00	Seats at Environmental Center
8.00	G/D/Seat
400.00	G/D for Environmental Center

Flow Equalization

Weekly Flow	9,200.00	Gal./Week
# of Days for Field Dosing	7.00	Days
Flow EQ Volume to Field	1,314.29	Gal./Day

	Inflow	Outflow	Remainder
Friday	3,600.00	1,314.29	2,285.71
Saturday	3,600.00	1,314.29	4,571.43
Sunday	400.00	1,314.29	3,657.14
Monday	400.00	1,314.29	2,742.86
Tuesday	400.00	1,314.29	1,828.57
Wednesday	400.00	1,314.29	914.29
Thursday	400.00	1,314.29	-

USE 500 GPD

Justin Henderson

From: Paul Penninger <PPenninger@smeinc.com>
Sent: Monday, June 30, 2014 7:25 AM
To: Justin Henderson
Subject: FW: Girl Scouts Hornets' Nest Council Conservation Easement

See below about Girl Scout Conservation Easement and Septic.

I have a call in to Don Church to see if he can dig pits this Wed or Thursday. Is either day better for you?

Paul

From: David DeCaron [mailto:ddecaron@pdapa.com]
Sent: Friday, June 27, 2014 12:19 PM
To: Paul Penninger
Subject: FW: Girl Scouts Hornets' Nest Council Conservation Easement

Paul,
Email below is for Justin. Below in the email it states that the septic system or a portion of is allowed in the conservancy. Its highlighted.

From: Sharon Wilson [mailto:sharon@catawbalands.org]
Sent: Wednesday, April 30, 2014 8:27 AM
To: ddecaron@pdapa.com; 'Buck Snyder'
Cc: 'Doug Bradley'; 'Donald L. Munday'; 'Malushizky, Dave'; Sean Bloom; Andy Kane
Subject: Girl Scouts Hornets' Nest Council Conservation Easement

David and Buck,

There are basically two questions in the e-mail you sent to Andy (Kane) with the road schematic attached. First, I will address the question regarding the road. The conservation easement allows for road construction as reasonably necessary to support the activities on the Council's property. The following is an excerpt from the conservation easement; pages 8 and 9, paragraph 4/Reserved Rights, sub-paragraph (i) Roads and Driveways:

(i) Roads and Driveways. Grantor may (i) use, improve, extend, replace, and maintain the roads and driveways as denoted and delineated on **Exhibit C** and (ii) construct, maintain, repair and replace public and private roads and other road facilities on the Restricted Property as reasonably necessary for the development of the Council Property (provided, however, the parties agree that the development of the Restricted Property shall be controlled by this Agreement), including paving, installation of storm drains, culverts, signage, lighting, landscaping and all other road improvements. All driveway and road design, improvement, construction, maintenance, repair and replacement shall be conducted in a manner that, to the extent reasonably possible, minimizes the impact on the natural and hydrologic features of the land and consistent with maintaining the Conservation Values of the Property and construction and replacement shall be subject to review and approval by CLC according to Paragraphs 5 and 5.1 hereof. Any impacts to stream channels and/or wetlands associated with the work above may require Department of the Army Corps of Engineers ("Corps") permits and to the extent so required, such permits will be coordinated with the Corps prior to the proposed work being conducted.

As the proposed road is being built to facilitate the development of the Council Property, the new road construction is allowed by the conservation easement. After Sean looked at your drawing, we think you may be working from an early iteration of the survey. The boundary of the conservation easement went through several configurations and there were some changes at the last minute. Sean suggested you look Map 3 (1280map2.dwg) which provides a detail of the existing unimproved dirt road and its location relative to the conservation easement boundary. If we are correct, the road will not reside within the boundaries of the conservation easement. But if it does, the road is allowed. After you look at the attachments, let us know if we are totally off base.

In regards to the question regarding the septic system; again, the conservation easement allows the construction of utilities (in this case 'other utilities') to support development of the Council property. The following is an excerpt from the conservation easement; page 9, paragraph 4/Reserved Rights, sub-paragraph (k):

(k) Utilities. Grantor may install, maintain, repair and replace (i) sanitary sewer, water, gas, power, storm sewer, telephone and any other utilities and (ii) drainage facilities, slopes, lines and pipes commonly associated with storm water drainage, as reasonably necessary for the development or general benefit of the Council Property provided that the surface of the areas disturbed by such work shall be promptly restored by Grantor to the extent reasonably possible. Grantor shall be permitted to grant easements to third parties for the purposes set forth above; provided, however, that Grantor shall remain responsible and liable according to the terms of this Agreement. Any impacts to stream channels and/or wetlands associated with the work above may require Department of the Army Corps of Engineers ("Corps") permits and to the extent so required, such permits will be coordinated with the Corps prior to the proposed work being conducted.

The installation of the laterals for the septic system is permitted by the conservation easement. We appreciate the effort made to avoid the removal of trees!

As part of our due diligence and prior to formal approval from the Conservancy (which will be via letter to the Council), it is probably in the best interest of both parties for us to make a site visit to ensure we understand the scope of the improvement(s) and document that we are making a thoroughly informed decision. I do not know exactly how far along you are in the design process so what I suggest is that when you think the timing may be right, contact us and we are prepared to make ourselves available for a site visit. You two (David/Buck) can decide who would be the most appropriate staff/consultant should accompany us. I would gently suggest that the timing be such that you are not into the 'final' stage of the design. As this is fairly straight forward, I don't anticipate any concerns from our perspective but if something surfaces as a result of the site visit, we would like to get it on the table early in the process. If you find that the road does not reside within the conservation easement boundary, all we will need to discuss on site would be the laterals for the septic system.

Please contact me if you have other questions.

Sharon

Sharon Wilson, Land Stewardship Director
Catawba Lands Conservancy
Leading the Carolina Thread Trail
105 W. Morehead Street
Charlotte, NC 28202
T| 704.342.3330 ext. 209
F| 704.342.3340
sharon@catawbalands.org
http://www.catawbalands.org
http://www.carolinathreadtrail.org

UTS,
NEST
17
Planned: 75 Tents, 300 Campers
Max Capacity: 80 Tents, 320 Campers
Environmental
Center
40 occupants
Fed
Area
psites
upants
Houses
BH
BH

Justin Henderson

From: Angoli, Trish <trish.angoli@dhhs.nc.gov>
Sent: Wednesday, July 16, 2014 10:33 AM
To: Justin Henderson
Cc: David DeCaron; Donald Munday
Subject: RE: Oak Springs Flow Reduction Letter

Justin,

I am okay with the flow reduction to 8 gpd/person and a flow of 500 gpd for the facility.

Let me know if you need anything else.

Thanks
Trish

Patricia M. Angoli, PE
NC Department of Health and Human Services
Environmental Engineer, On-Site Water Protection Branch, Division of Public Health
5605 Six Forks Rd
1642 Mail Service Center
Raleigh, NC 27699-1642
919-707-5878 (Office)
919-845-3973 (Fax)
trish.angoli@dhhs.nc.gov
http://publichealth.nc.gov/

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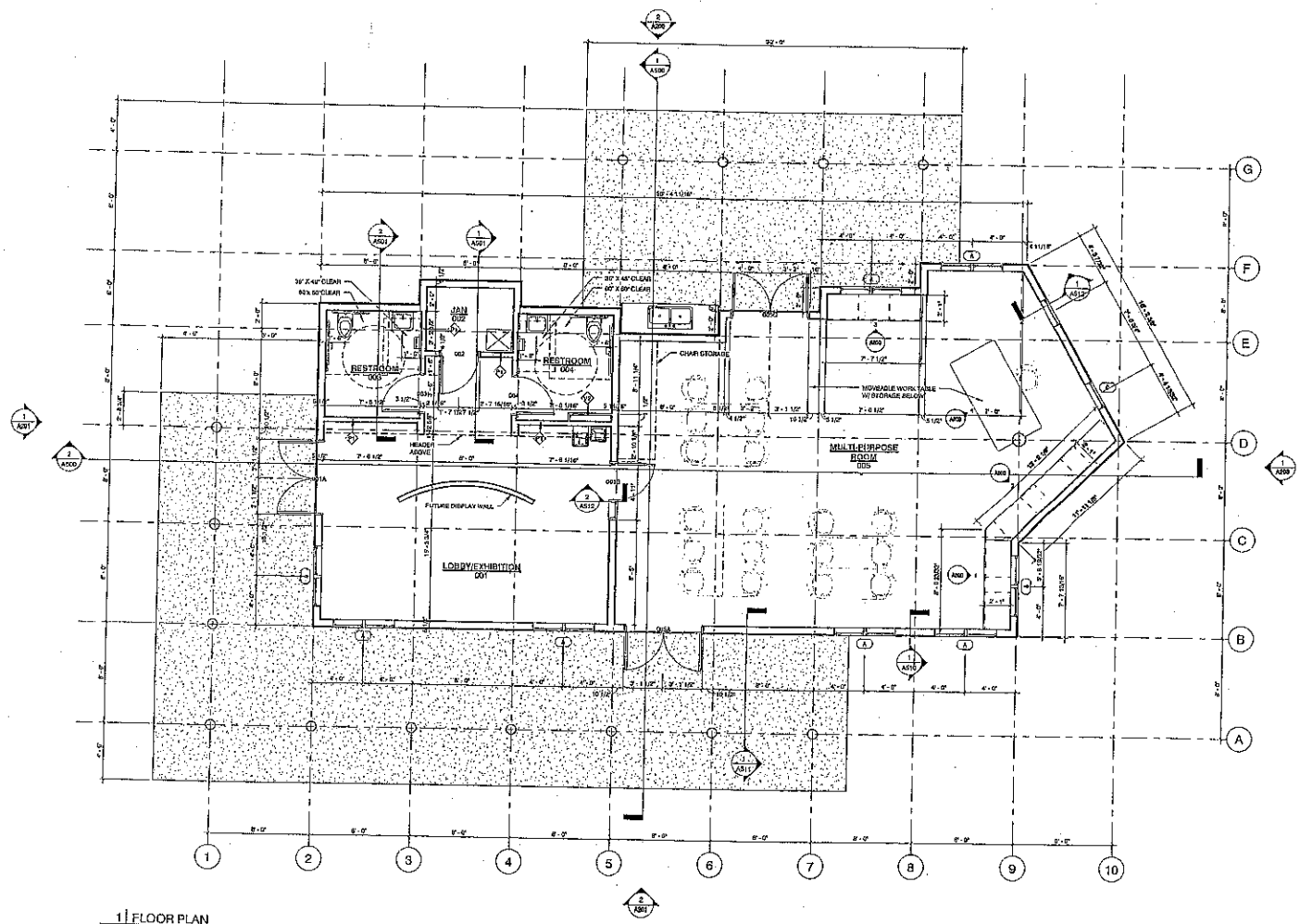
From: Justin Henderson [mailto:jhenderson@co.iredell.nc.us]
Sent: Tuesday, July 08, 2014 7:55 AM
To: Angoli, Trish
Subject: FW: Oak Springs Flow Reduction Letter

Hey Trish,
Attached is a flow reduction letter, for a girl scout camp, that you granted in 2010. They have made a new application for an Environmental Center. This building will consist of a lobby and a multi-purpose room. They have stated that they will hold classes for the girl scouts in this building only. It also has two restrooms, with one water closet and one lavatory each. My question is can we still use the 8gpd/person for the design flow? Their application is requesting a design flow of 500gpd for the facility.

Thanks

Justin Henderson, REHS
Iredell Co. Environmental Health

From: David DeCaron [mailto:ddecaron@pdapa.com]
Sent: Monday, July 07, 2014 8:58 AM
To: Justin Henderson



1 FLOOR PLAN
A100 1/4" = 1'-0"

LAWRENCE GROUP

Austin Carolinas New York Philadelphia St. Louis

Offices: 108 S. Main Street, ste B
Davidson, NC 28036
P 704.895.1949
F 704.895.1987

Architect
Lawrence Group

Electrical Engineer
Isaac B. Kennedy Engineers
419 N. McDowell Street
Charlotte, NC 28204
704-333-5400

Plumbing & Mechanical Engineer
Reference PLLC
3701 Arkwright Drive
Charlotte, NC 28210
704-333-3011

Civil Engineering
Piedmont Design Associates
125 E Plaza Dr #101
Mooresville, NC 28115
704-664-7468

Project Title:
Dale Earnhardt Environmental Center
1919 Turnersburg Hwy, Statesville, NC 28625

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No.	Description	Date

Sheet Title:
FLOOR PLAN

Project Number: 13159
Drawn By: DMG/DSR/AB
Issue Date: June 12, 2014

Sheet Number: A100

Justin Henderson 7-17-14