

17200 CAROLINA ACADEMY RD

22304101

1/2/2008

duponbj

Groundwater and Wastewater Services File Imaging Project
May 2007
Barcode Font = IDAutomationHC39M

W. T. NORWOOD, INC.
MECKLENBURG COUNTY HEALTH DEPARTMENT

11/30/99

14457

200.00

FIRST CHARTER /CHECK

200.00

Owes $200.00
Refund if $ is left
for extra visit
in order to complete
final & issue OP.
Six visit 8-12
9-22
10-1
11-24 Count Two
As extra visits

10-3-99 VW ck # 14457 Irrig + HP fees

CERTIFICATE OF COMPLETION/OPERATION PERMIT

HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION
700 NORTH TRYON ST., SUITE 211
CHARLOTTE, NC 28202
PHONE (704) 336-5102

FILE: 7896b DATE: 11-24-99

TC: 223-041-01 ☒ L ☐ CRT

SERIAL Nº 18095

Name of Owner Korean Bible Presbyterian Ch Juris.:

Address of Property 17200 Carolina Academy Road

Inspection Data:

Tank Material PCC

Total Length of Drainfield 625

Number of Lines 5 @ 125

Cover Depth 12" Avg

Water Supply Source Municipal

Distance to Water Source 710'

Excavation Inspected 8-12

Tank(s) Inspected 8-12

Wash Line Inspected —

High Water Alarm Inspected 11-24

9-22-99 Pump tank tested 24 hrs draw down test — took on H2O

High water alarm / control panel does not have 7 day timer.

10-1-99 Water test O.K.

Myers ME50

PLOT

Design 1999, 3000ST, 3000FT, PI, MOD, 1875SF, T, Group IV CTR# Norwood 42

The undersigned has inspected the Septic Tank System described above, and certifies it has been

☐ installed or constructed ☐ altered or repaired

☐ in accordance with the permit issued ☐ as detailed in the plot above

and meets the provisions of 15A NCAC 18A. 1900, "Laws And Rules For Sewage Treatment and Disposal Systems" in effect on the date of issuance of the permit. This issuance of this

☐ Certificate of Completion ☐ Operation Permit

does not in any way guarantee that the system will operate properly or relieve any person now or hereafter owning, controlling, or using such system from any liability resulting from the failure of the system to operate properly. This document is issued subject to those restrictions and conditions shown on the permit(s) and the provisions of 15A NCAC 18A. 1990 in addition to those listed below under "COMMENTS." This document shall be null and void if any information contained in the application is untrue or if any additions are made to the property which would increase the requirements for said system.

Notice: Disturbance of the designated repair area may result in the suspension/revocation of this permit.

COMMENTS: Type IIIb 300 seats

L B Thompson, Jr., R.S.
Environmental Health Specialist

Mecklenburg County services are available without regard to ethnic origin, sex, or disability.

INSTALLATION, CONSTRUCTION, ALTERATION, AND/OR REPAIR APPROVAL

HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION
700 NORTH TRYON ST., SUITE 211
CHARLOTTE, NC 28202
PHONE (704) 336-5102

FILE: ~~8961~~ B DATE: 8-5-99

TC: 223-041-01 L

SERIAL Nº 17896

Permission is hereby given to ✓ Install or Construct, _____ Alter or Repair the individual septic tank wastewater treatment system with subsurface, soil absorption, effluent discharge as specified herein at the described location. This permit is granted based upon the information supplied in the application dated 3-19-99. All work shall be completed on or before 9-5-99, after which date this permit shall be null and void. The system shall meet all of the construction requirements of 15A NCAC 18A. 1900 which are in effect on the date of the granting of this permit. A Certificate of Completion or an Operation Permit must be obtained from the Mecklenburg County Health Department before any system can be covered up or placed into service. The issuance of this permit does not in any way guarantee that the system anticipated to be constructed will operate properly, or relieve any person now or hereafter owning, controlling or using such system from any liability resulting from the failure of the system to operate properly.

Install according to approved Plans

PLOT OF SYSTEM

Liquid Capacity of Septic Tank 3000 gallons

Liquid Capacity of Dosing Tank 3000 gallons

Tank Construction PCC

Trench Depth 24"

Absorption and/or Nitrification Lines:

Trench Width 3 feet

Trench Walls Scored and Porous Yes

Total Line Length 625 feet

Number of Lines 5

Depth of Stone N/A inches

Distance from House 10 feet

Distance from Property Line 10 feet

Distance from Well 750 feet

NOTICE: This system shall not be installed while soils are in a wet condition.

NAME OF OWNER Korean Bible Presbyterian Church

LOCATION OF PROPERTY 17200 Carolina Academy Road

Comments: Type IIIb 300 seat Church
(5) 3'w x 125'l x 24"d
Sand backfill required

Larry B. Thompson Jr., R.S.
Environmental Health Specialist

WHITE - HEALTH DEPARTMENT's COPY • CANARY - E.H.S. COPY • PINK - OWNER OR AGENT's COPY

W.T. NORWOOD INC.
P.O. BOX 99
WAXHAW NC 28173

FAX COVER SHEET

DATE: 11-30-99

TO: Larry Thompson PHONE: _____

Environmental Health FAX: _____

FROM: Brady PHONE: 704-843-3298

W.T. NORWOOD INC. FAX: 704-843-1750

6 PAGES INCLUDING COVER

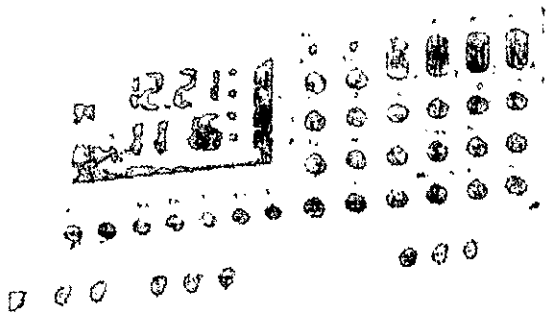
COMMENTS:

Per your request

GRASSLIN

Digi 322

365-Day One, Two and Four Circuit Electronic Time Switch by Grasslin



The Digi 322 consists of one, two and four channel electronic time switches with 365 day memory and 24 hour programming. The memory is factory pre-programmed with a total of 365 switching days. The following functions of time and date are displayed on a large LCD panel:

Functional Description

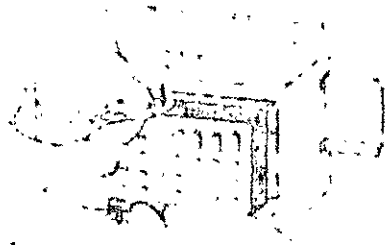
TECHNICAL DATA

TO THE INSTALLER

Installation

MOUNTING

Dimensions



Terminal Connections

paid in full
ck # 33940 & 33934 Project # 973776

FEE: 200.00 AUTHORIZATION FOR WASTEWATER SYSTEM CONSTRUCTION (400 X)
DATE: 6-18-99 VOID SIXTY (60) MONTHS FROM DATE OF ISSUANCE

DATE: 6-2-99 PERMIT NO: 28966 & 40
PARCEL NO: 223-041-101

JOB LOCATION ADDRESS: 17200 Carolina Academy Road
PROPERTY OWNER: Korean Bible Presbyterian Church
BUILDING CONTRACTOR: Metrolina Builders
SUBDIVISION NAME: N/A
AUTHORIZATION ISSUED BY: Larry B. Thompson Jr. R.S. DATE: 6-2-99
DEHNR AUTHORIZED AGENT

AUTHORIZATION CONDITIONS

1. WASTEWATER SYSTEM CONSTRUCTION AND INSTALLATION MUST MEET ALL CONDITIONS AND SPECIFICATIONS AS SET FORTH IN IMPROVEMENT PERMIT NO. 28966, AND THE ATTACHED SITE PLAN WITH SYSTEM DETAILS. CONSTRUCTION AND INSTALLATION MUST ALSO MEET ALL REQUIREMENTS SET FORTH IN THE RULES GOVERNING SANITARY SEWAGE COLLECTION, TREATMENT, AND DISPOSAL AND ANY OTHER APPLICABLE RULES AND LAWS.

2. AN INSTALLATION, CONSTRUCTION, ALTERATION AND/OR REPAIR APPROVAL MUST BE SECURED PRIOR TO INSTALLATION OF THE SEPTIC TANK SYSTEM. THE INSTALLER OF THE SYSTEM SHALL BE A REGISTERED SEPTIC TANK CONTRACTOR WITH MECKLENBURG COUNTY HEALTH DEPARTMENT.

3. ANY ALTERATION IN SITE OR SOIL CONDITIONS (INCLUDING LOCATION OF STRUCTURES AND APPURTENANCES) OR MODIFICATION IN USE, DESIGN WASTEWATER FLOW, OR WASTEWATER CHARACTERISTICS AS SPECIFIED IN THE ASSOCIATED IMPROVEMENT PERMIT AND APPLICATION, MAY SUBJECT THIS AUTHORIZATION AND ASSOCIATED PERMIT(S) TO REVOCATION.

4. OTHER CONDITIONS: See Condition of Improvement Permit

OWNER CERTIFICATION

I CERTIFY THAT THERE HAVE BEEN NO ALTERATIONS IN SITE OR SOIL CONDITIONS OR MODIFICATIONS TO FACILITY, WASTEWATER FLOW, OR WASTEWATER CHARACTERISTICS FROM THOSE SPECIFIED IN THE ORIGINAL APPLICATION OR ASSOCIATED IMPROVEMENT PERMIT UNLESS AUTHORIZED IN WRITING BY THE MECKLENBURG COUNTY HEALTH DEPARTMENT. I ALSO UNDERSTAND THAT ANY SUCH ALTERATIONS, MODIFICATIONS, OR FALSE INFORMATION ARE GROUNDS FOR REVOCATION OF PERMITS AND AUTHORIZATION TO CONSTRUCT.

Ken Powell 6-16-99
SIGNATURE OF OWNER/OWNER'S REPRESENTATIVE DATE

North Carolina
Department of Environment, Health, & Natural Resources
Division of Environmental Management
Groundwater Section
P.O. Box 27687 - Raleigh, N.C. 27611

WELL ABANDONMENT RECORD 30051076

CONTRACTOR McGill Bros REG. NO. 3

1. WELL LOCATION: (Show a sketch of the location on back of form.)
Nearest Town: Pineville County Mecklenburg
(Road, Community, Subdivision, Lot No.) Quadrangle No.

2 OWNER: Korean Church

3 ADDRESS: 17200 Carolina Academy Rd

4 TOPOGRAPHY : draw, slope, hilltop, valley (flat)

5 USE OF WELL: domestic DATE: 9/17/99

6 TOTAL DEPTH: 200' DIAMETER: 6"

7. CASING REMOVED:

feet	diameter
3'	6 5/8" Galv

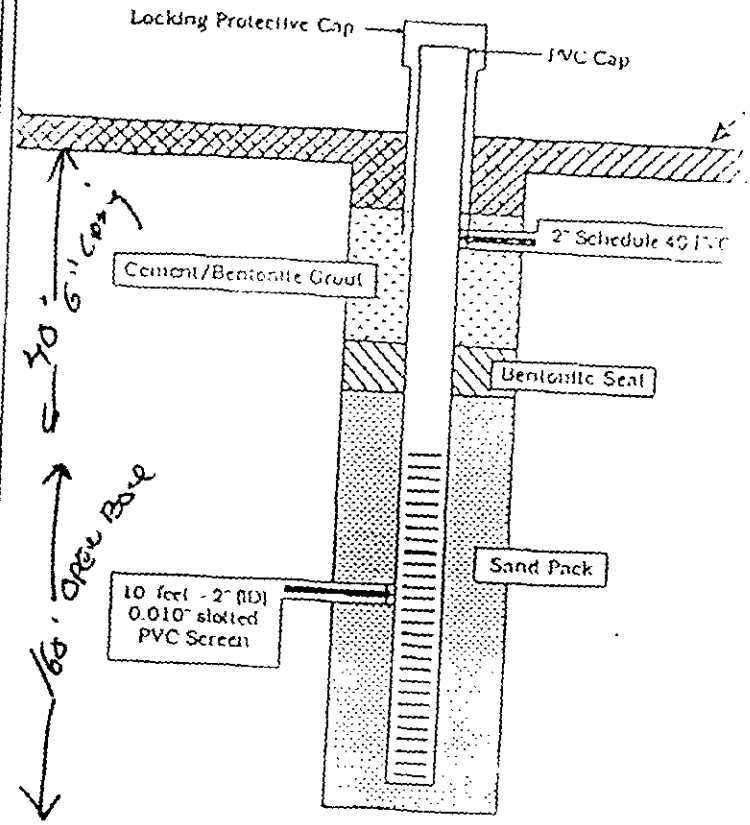
8. SEALING MATERIAL:

Neat cement		Sand cement	
bags of cement	15	bags of cement	
gals. of water	105	yds. of sand	
		gals. of water	

Other
Type material
Amount

9 EXPLAIN METHOD EMPLACEMENT OF MATERIAL
Tremie

WELL DIAGRAM: Draw a detailed sketch of the well showing total depth, depth and diameter of screens remaining in the well, gravel interval, intervals of casing perforations, and depths and types of fill materials used.



Monitoring Wells will be constructed in accordance with the State of North Carolina Well Construction Standards (Title 15 - North Carolina Administrative Code Subchapter 2C)

I do hereby certify that this well abandonment record is true and exact.

Signature of Contractor or Agent [signature] Date 9/17/99

WELL LOCATION: Draw a location sketch on the reverse of this sheet, showing the direction and distance of the well to at least two (2) nearby reference points such as roads, intersections and streams. Identify roads with State Highway road identification numbers.

Submit original to the Division of Environmental Management, one copy to the Driller, and one copy to the owner.

GW-30 Revised 3/8/90

CONDITIONS OF IMPROVEMENT PERMIT

Permit Number: 28965

Tax Number: 243-04-101[B]

- The IMPROVEMENT PERMIT is subject to revocation if site plans or the intended use change. There is to be NO grading, filling or disturbance of the soil in the area of the septic tank system or repair area.
- CONSTRUCTION AUTHORIZATION must be obtained prior to receiving a Building Permit. The Construction Authorization is NOT transferable. Do not clear, grade, fill or disturb soil prior to obtaining a Construction Authorization.
- Domestic-type wastewater only. No industrial process wastewater may be discharged into the system.

Basement: ___ Yes ✓ No ___ Partial Basement

Type Primary Wastewater System
Type (circle one): I II (III) IV V VI

___ Conventional
___ Prefabricated, permeable block panel system
___ Shallow Placed Conventional
___ Low Pressure Pipe
___ Large Diameter Pipe
___ Fill
___ Other
✓ Innovative or Experimental:
___ IWWS-93-1
___ IWWS-93-2
___ IWWS-94-1

.3 Long-term acceptance rate	1500 Max gallons/day wastewater flow	1875 Absorption Area (sq ft)	9' Trench spacing (min. on centers)
N/A Serviced by private well	3000 Gallon septic tank	625 Total trench length (ft)	24" Maximum trench depth (At least 12" of provisionally suitable soil must remain between trench bottom and unsuitable soil conditions)
N/A Bedrooms in residence 300 seats (Church)	3000 Gallon pump tank	N/A Depth of stone Group I, II or III backfill	

Any surface waters present: Type: Minimum separation distance:

Site modifications required:

Additional Conditions:
- Group I, II or III backfill required around chambers.
- This is a time dosed system; appropriate control panel required.
- Pressure manifold required
- System designer may be asked to meet for pre-construction conference and/or final inspection of septic system.

Repair Area System Type
Type (circle one): I II (III) IV V VI

___ Conventional
___ Prefabricated, permeable block panel system
___ Shallow Placed Conventional
___ Low Pressure Pipe
___ Large Diameter Pipe
___ Fill
___ Other
✓ Innovative or Experimental:
___ IWWS-93-1
___ IWWS-93-2
___ IWWS-94-1

1875 Absorption Area (Sq ft) 625 Total Trench Length (Ft)	N/A Depth of Stone Trench Group I, II or III backfill	9' Trench spacing (min. on centers)	24" Maximum Trench Depth

For existing system, enter the year originally installed:

The undersigned, an authorized agent of the MECKLENBURG COUNTY HEALTH DEPARTMENT, certifies that the Department has approved the Request for the Job Location contained in this document. This approval is granted in accordance with the provisions of Laws and Rules For Sewage, Treatment and Disposal in effect at the time of issuance of the permit and is subject to the following provisions:

- No work shall be conducted on the septic tank system until an Installation, Construction, Alteration and/or Repair Approval is granted by this Department
- This Improvement permit is transferable.

Larry B. Thompson, R.S. 6-2.99
DEHNR Authorized Agent Date

Tom Cowell 6-16-99
Owner/Agent Signature Date

MECKLENBURG COUNTY
HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION
c/o HAL MARSHALL CTR.
SUITE 211
700 N. TRYON ST.
CHARLOTTE, N.C. 28202.
(704) 336-5102

NORTH CAROLINA DEPARTMENT OF
ENVIRONMENTAL, HEALTH,
AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION

FOR REGISTRATION JUDITH A. GIBSON
REGISTER OF DEEDS
MECKLENBURG COUNTY, NC
1999 JUN 16 03:48 PM
BOOK:10547 PAGE:907-910 FEE:$12.00
INSTRUMENT # 1999106586

STATE OF NORTH CAROLINA

COUNTY OF MECKLENBURG

WASTEWATER TREATMENT AND DISPOSAL SYSTEM DESIGN AGREEMENT: 15A NCAC 18A .1948 AND ANY OF THE FOLLOWING RULES: .1956; .1957(a); .1957(b); or .1957(c); OR .1969

FILE # 2896B
PARCEL # 223-041-01RR

The undersigned, Korean Bible Presbyterian Church (John Lim), owner of property located at 17200 Carolina Academy Rd, Charlotte NC, (the "site") and described in an instrument recorded in Book 7901 at Page 867, Mecklenburg Public Registry, hereby acknowledges that the undersigned applied to the Mecklenburg County Health Department (the "Department") for a permit to install a septic tank sewage disposal system on the site; that the Department evaluated the site for suitability for such a system in accordance with the regulations promulgated by the North Carolina Commission for Health Services as 15A NCAC 18A .1900 et seq.; that the Department originally classified the site as "unsuitable" pursuant to the standards set forth in the regulations; that the undersigned requested that the Department reclassify the site as "provisionally suitable" in light of the particular septic tank system proposed by the undersigned; that the Department considered various studies, data, and other information which indicate to the Department that the septic tank system proposed by the undersigned is allowed by the rules; and that the Department therefore reclassified the site as "provisionally suitable" and issued an appropriate permit for such proposed septic tank system.

The undersigned further acknowledges that the proper design, construction, operation and maintenance of such septic tank system is the responsibility of the designer, owner, developer, installer, or user of the system, as applicable, and that neither the Department nor its officials, employees, or agents warrant or guarantee that the said system installed pursuant to the permit issued by the Department will function in a satisfactory manner for any given period of time or that the Department, its officials, employees or agents assume any liability for any damages of any kind which are caused, or which may be caused, by a malfunction of such system.

The undersigned further acknowledges that the following conditions will apply to the site:

- Any changes on the property may make the Improvement Permit Null and void and may make the Improvement Permit subject to revocation.

This instrument was prepared by: Same as above
Mail after recording to: Same as above

Mecklenburg County
Health Department

Conditions of Improvement Permit

File Number: 2896 B
Site Address: 17200 Carolina Academy Road

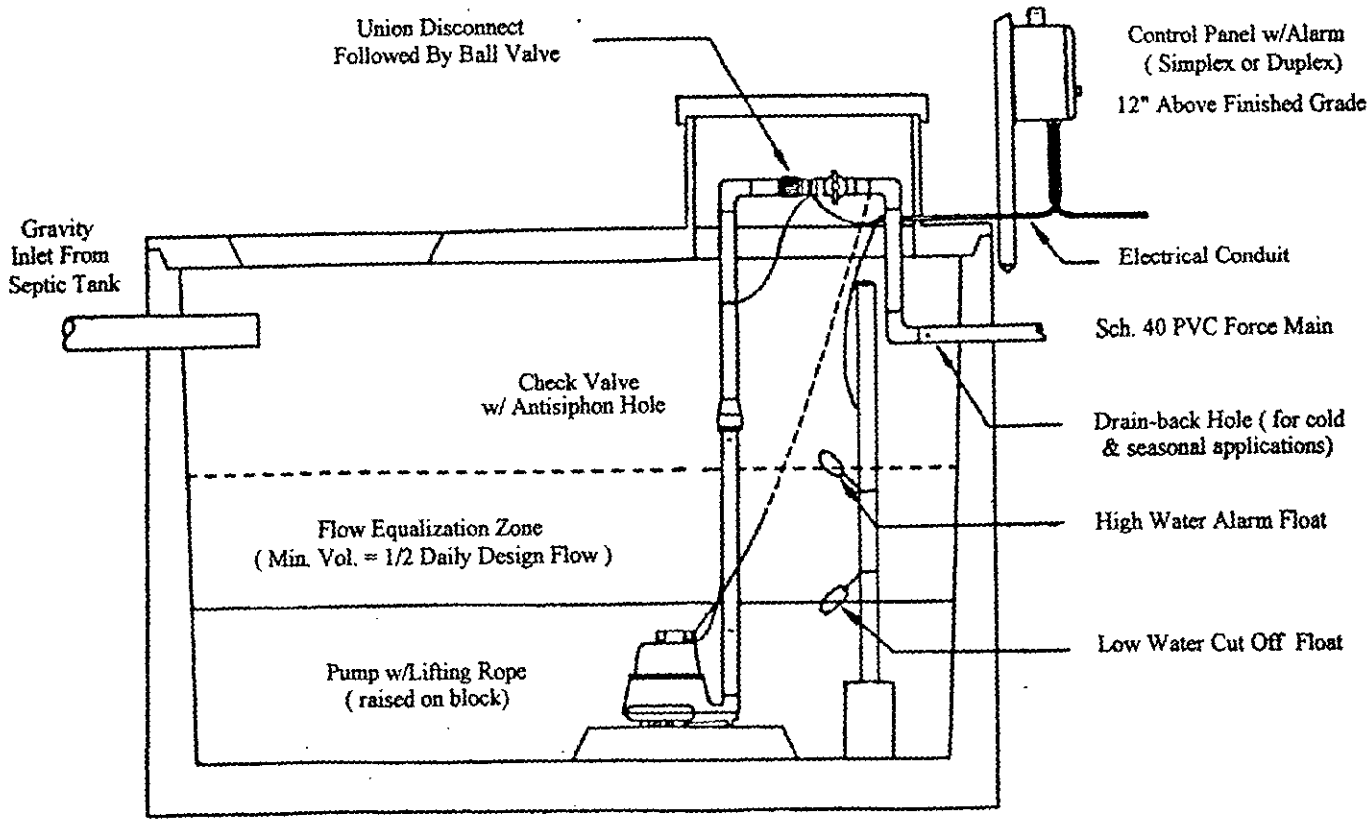
1. The wastewater treatment and disposal system permitted is a pump-to-innovative system designed by Toney C. Jacobs & Associates, Inc. The septic system must be installed as designed and approved.
2. The system will require a single phase, simplex control panel with alarm. The control panel must have a Nema 4x weather proof rating and a 24 hour control timer.
3. A pressure manifold shall be used to distribute effluent to the innovative drain field trenches.
4. Septic and pump tanks must be installed in an area not subject to vehicular traffic. System installer must ensure that finished soil cover over the tanks will not be greater than 36 inches in depth. Soil cover greater than 36 inches will require reinforced tanks.
5. Nitrification trenches shall be constructed as level as possible but in no case shall the fall in a single trench bottom exceed one-fourth inch in 10 feet as determined by an engineer's level or equivalent.
6. Any changes in the site must be pre-approved by the Mecklenburg County Environmental Health Department.
7. The wastewater treatment and disposal drain field area, including the designated repair areas, shall not be used for any of the following:

    - Grading or filling
    - Parking or driving heavy equipment in the area or subjecting the site to possible soil compaction
    - Construction staging area
    - Installation of lawn irrigation components
    - Installation of underground utilities or cables of any type
    - Burial of any debris or material
    - Utilizing the area for gravesites
    - Diversion of storm water runoff into this area

8. Septic system installer must be registered with Mecklenburg County prior to meeting for the required pre-construction conference.
9. System installer will be required to operate the system at the time of the final inspection. Arrangements must be made to have the pump tank filled with water prior to the requested final inspection. The required pressure head of 2 feet will be adjusted at the pressure manifold at the time of the final inspection.
10. The system owner shall have the contents of the septic tank checked, and the contents of the tank removed, periodically from all compartments, to ensure proper operation of the system. The contents of the septic tank shall be pumped whenever the solids level is found to be more than 1/3 of the liquid depth in any compartment.
11. All septic tank riser and effluent filter rules will apply to this system. It is strongly recommended that access risers be added to both ends of the septic tank, extending to at least finish grade. This will allow periodic inspection of the solids level in the tank as well as help facilitate the periodic cleaning of the effluent bio-filter.
12. The local Health Department is required, by the State, to perform system reviews of Type IIIb systems at a minimum of every 5 years. The owner of the system is responsible for paying any inspection fees, as determined by the Board of County Commissioners, at the time of the required inspection.

TYPICAL PUMP TANK DETAIL

1. Pump tank shall have an access manhole extending at least 6 inches above finished grade.
2. Pump and control circuits shall be provided with manual circuit disconnects within a watertight, corrosion-resistant, outside enclosure (NEMA 4X or equivalent) adjacent to the pump tank, securely mounted at least 12 inches above finished grade. The pump(s) shall be manually operable without requiring the use of special tools or entrance into the tank for testing purposes. Conductors shall be conveyed to the disconnect enclosure through waterproof, gasproof, and corrosion-resistant conduits, with no splices or junction boxes provided inside the tank. Wire grips, duct seal, or other suitable material shall be used to seal around wire and wire conduit openings inside the pump tank and disconnect enclosure.
3. The pump tank shall have a properly functioning high-water alarm. The alarm circuit shall be supplied ahead of any pump overload and short circuit protective devices. The alarm shall be audible and visible by system users and included in the pump and control enclosure (Simplex or Duplex Control Panel).
4. Float switch for the high water alarm shall be set no more than 3 inches above the high water level of pump cycle.
5. Pump floats should be set so that level of water at end of pump cycle is above the top of the pump.
6. Float switch tie downs to be made of corrosion resistant material, no tape or metal hose clamps.
7. Pump discharge shall have a check valve.
8. Anti-siphon hole (three-sixteenth inch) is required between the pump and the check valve.
9. Watertight testing will be required on two piece pump tanks.



FEE: 100.00 CK #33879

DATE: 3-17-99 VLW

INDIVIDUAL WATER AND WASTEWATER SYSTEMS PROGRAM
APPLICATION FOR IMPROVEMENT PERMIT FOR COMMERCIAL/INDUSTRIAL SITE

PD 75.00 4-6-99 CK # 33847 CRT VLW

TYPE APPLICATION: ✓ NEW SYSTEM ___ EXPANSION OF EXISTING SYSTEM ___ REPAIR OF EXISTING SYSTEM

NORTH CAROLINA
DEPARTMENT OF ENVIRONMENT,
HEALTH, AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION

FILE #: ~~28966~~ 28966

PROJECT TRACKING #:

PROPERTY INFORMATION (FROM ENGINEERING FORM) FOR JOB LOCATION:

TAX/PARCEL NUMBER: 223-041-01

STREET ADDRESS: 17200 CAROLINA ACADEMY RD.

✓ COMMERICAL (Non-Profit) ___ INDUSTRIAL

DESCRIBE TYPE OF BUSINESS: CHURCH
MULTI-PURPOSE BUILDING
Square Footage of Facility: 7000 SF

LOT NUMBER:

TOWNSHIP (CHECK ONE):

✓ 0 MECKLENBURG
___ 1 CHARLOTTE
___ 2 DAVIDSON
___ 3 CORNELIUS
___ 4 PINEVILLE
___ 5 MATTHEWS
___ 6 HUNTERSVILLE
___ 7 MINT HILL

NUMBER OF EMPLOYEES: *SEE ATTACHED* PER SHIFT: ___ ___ ___

HOW WILL WATER BE USED IN THE FACILITY:

7 TOLIETS/URINALS
6 HANDSINK
___ SHOWERS
2 FLOOR DRAINS

OTHER, PLEASE DESCRIBE:
1 JANITOR SINK
#2 ELECTRIC WATER COOLER

An IMPROVEMENT PERMIT is subject to revocation if site plans or the intended use change.

TYPE OF WASTEWATER:
✓ SEWAGE
___ INDUSTRIAL PROCESS WASTE WATER

IF EXPANSION OF EXISTING SYSTEM, DESCRIBE THE PROPOSED ADDITION:
N/A

WATER SUPPLY (CHECK ONE): ___ COMMUNITY (C) ✓ MUNICIPAL (M) ___ PRIVATE WELL (P) ___ SHARED WELL (S) ___ OTHER 'SPRINGS' (O)

IF ANY OF THE FOLLOWING ARE LOCATED ON THE PROPERTY, PLEASE SHOW LOCATION ON PLAT:

BURIED CABLES, LANDFILLS, STUMPHOLES	___ YES ✓ NO	WELL SPRINGS OR WATERLINES	✓ YES ___ NO
EXISTING WASTE WATER SYSTEMS	✓ YES ___ NO	DESIGNATED WETLANDS	___ YES ✓ NO
EASEMENTS OR RIGHT-OF-WAYS	___ YES ✓ NO		

BUILDING PLANS TO INCLUDE ALL PLUMBING, FLOOR DRAINS AND ALL SOURCES OF WASTEWATER DISCHARGE AND GRADING PLANS MAY BE REQUIRED DURING THE EVALUATION STAGE.

PROPERTY OWNER:	LEGAL AGENT FOR PROPERTY OWNER, IF APPLICABLE:
NAME: KOREAN BIBLE PRESBYTERIAN CHURCH (LAST) (FIRST) (MI)	NAME: (LAST) (FIRST) (MI)
ADDRESS: 1805 EAST SEVENTH STREET	DAYTIME PHONE: ( ) --
CITY: CHARLOTTE STATE: NC ZIP: 28204	
DAYTIME PHONE: ( ) 554 8664	

WHAT DATE WAS THE PROPERTY ORIGINALLY DEEDED AND RECORDED? 9/1/94

THE UNDERSIGNED, OWNER, OR LEGAL AGENT FOR THE OWNER, OF THE PROPERTY DESCRIBED ABOVE AS THE "JOB LOCATION" HAS READ THE FOREGOING APPLICATION, ACKNOWLEDGES THAT THE CONTENTS OF SAME ARE TRUE, AND AUTHORIZES AGENTS OF THE MECKLENBURG COUNTY HEALTH DEPARTMENT TO ENTER ONTO THE PROPERTY FOR THE PURPOSE OF PROCESSING THIS REQUEST.

SIGNED: DATE: 3/11/99

MECKLENBURG COUNTY HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION
c/o HAL MARSHALL CTR., SUITE 211, 700 N. TRYON ST., CHARLOTTE, N.C. 28202., (704) 336-5102

SUPPLEMENTAL INFORMATION

In lieu of a per shift Employee count, the occupant content for the building is calculated as follows:

Sanctuary Area (300 seats)	4480 sf / 7 net =	640
Meeting Rooms	704 sf/ 15 net =	47
Storage Room	230 sf/ 300 gross =	1
Other Areas	1626 sf/ 100 gross =	16
Total	7040 sf	704 Occupant Load

It is anticipated public utilities will be extended to the site prior to construction of the future Church Building.

Larry,

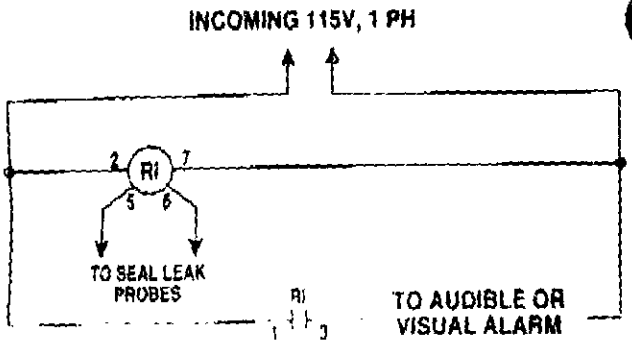
The specs we have on the pump and timer panel box are to follow.

Myers WE 50 was the pump used.

The panel box will be installed as soon as it is available

Thanks

Susan



ME SERIES DIMENSIONS

Model Series	Inches (millimeters) A	B	C	F
ME33S, ME50S	16.8 (427)	4.09 (104)	1.03 (26)	12.13 (308)
ME33D & ME50D	18.6 (472)	4.09 (104)	1.03 (26)	12.13 (308)
ME75S, ME100S, ME150S	16.8 (427)	4.0 (102)	1.06 (27)	12.5 (318)
ME75D, ME100D, ME150D	18.6 (472)	4.0 (102)	1.06 (27)	12.5 (318)

MOISTURE SENSOR SEAL PROBE CIRCUIT

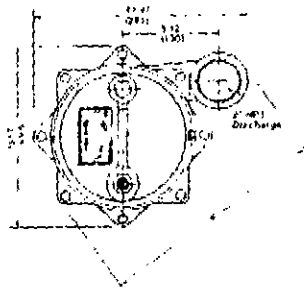
Relay - SSAC Inc #LLC44A5A
Socket - Standard 8-pin plug-in type
If Myers panel is used, see below

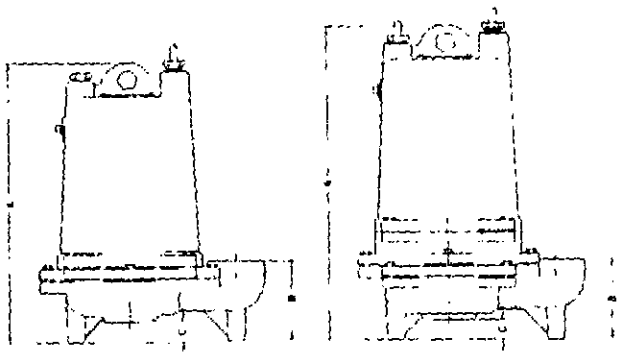
Pumps: ME33D-11,
ME50D-11,
ME75D-11
Required Panel
CMEP (SL)-11S, -11SW, -11D or -11DW

Pumps: ME33D-01, ME33D-21,
ME50D-01, ME50D-21,
ME75D-01, ME75D-21,
ME100D-01, ME100D-21,
ME150D-01, ME150D-21,
MWH50D-01, MWH50D-21,
MW100D-01, MW100D-21,
MW150D-01, MW150D-21,
MW200D-01, MW200D-21
Required Panel:
CMEP(SL)-21S, -21SW, -21D or -21DW

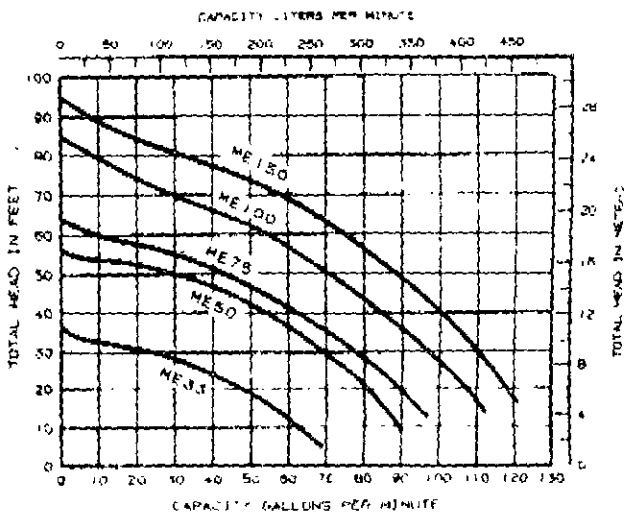
Pumps: ME33D-03, ME33D-23,
ME50D-03, ME50D-23,
ME75D-03, ME75D-23,
ME100D-03, ME100D-23,
ME150D-03, ME150D-23,
MWH50D-03, MWH50D-23,
MW100D-03, MW100D-23,
MW150D-03, MW150D-23,
MW200D-03, MW200D-23
Required Panel:
CMEP(SL)-23S, -23SW, -23D or -23DW

Pumps: ME33D-43,
ME50D-43,
ME75D-43,
ME100D-43,
ME150D-43,
MWH50D-43,
MW100D-43,
MW150D-43,
MW200D-43
Required Panel:
CMEP(SL)-43S, -43SW, -43D or -43DW





ME PERFORMANCE CURVE



ME 50

Plumbing Supply Co.

QUOTATION

DATE: 9-29-99

TO: W.T. Lonwood
Attn: Susan Culpepper

PSCO LOCATION: Monroe
TELEPHONE: 283-1519
QUOTED BY: Dana Poulton

JOB NAME: 17th Carolina Academy
LOCATION:

TERMS: NET 30 DAYS

*SPECIAL ORDER ITEMS NON RETURNABLE. OTHERS SUBJECT TO RESTOCKING CHARGE.

PAGE 1 OF 3

QUOTE VALID FOR 60 DAYS FROM ABOVE DATE

QNTY.	PS NUMBER	DESCRIPTION	NET / EACH	
1		SHEF 50 Hydromatic pump.	451.29	E
1		2 PVC Check Valve.	10.57	E
1		Concrete Float Tree	27.00	E
1	→	Rhombus Panel per the attached design specifications furnished by you.	1130.00	E
	→	Allow app. 2 weeks delivery from time of order.		

9 Pump: The submerged pump shall be Model 2885 ½ hp manufactured by Goulds or equal, 115 or 230 v/1 phase, capable of pumping 27.4 gallons per minute at 48.6' of head.

10 Pump controls and alarm to meet specifications of 1952, all being compatible and used with Simplex weatherproof controls with alarm. Pump control to dose twice daily for 10.9 min. for 5 days and rest system for 2 consecutive days each week. The Simplex control box is readily available with a digital clock which can be set to a fraction of a minute. It can be set to skip days, and will not let the pump operate when there is no effluent to be pumped. Set system to pump Sunday through Thursday, then rest on Friday and Saturday

11. A "Warning Sign" shall be located within the church to inform the staff or occupants of action to take in case the "High Water Alarm" is activated. This sign shall contain the name, address, telephone number, and emergency telephone number of the person to contact upon malfunction of the system

12. Pump and Controls: Details of pump installation are shown in the plan. The pump must be placed on concrete blocks on the bottom of the tank This prevents the pumping of any solid particles which can clog the pipe system. A piece of nylon rope or other non-corrodible material should be attached to the pump and the outlet pipe for lifting the pump in and out of the chamber Controls should be fastened to a "tree" or the outlet pipe with clamps or brackets supplied by the manufacturer. The lower level control or "pump-off" must be positioned above the pump, so that the pump remains submerged at all times. The level control "pump-on" is positioned to pump a specified volume of effluent The high water control float is then mounted about 3" above the upper pump-on control. (Note: Care must be taken to insure that floats do not become fouled by other components in the tank, such as the electric power cord or the lifting rope. It is highly recommended that a telescoping "tree" be used for floats to facilitate adjustments) The pump outlet pipe should be connected to the supply manifold with a threaded PVC union (or dresser coupling) to allow quick removal.

13. Electrical Connections: The pump and high water alarm must be placed on separate electrical circuits. (If the pump circuit fails, the alarm must still be able to operate). Follow the manufacturers recommendations for the proper fuses or circuit breakers. All electrical connections must be made outside the pumping chamber. Power cords from the pumps and controls should be plugged into a NEMA 4X approved outdoor receptacle This must not be located inside the pumping chamber due to the corrosive and explosive

Design Specifications

17200 Carolina Academy Road

Daily design flow	1500 gpd (300 seats at 5 GPS)
Septic tank size.	3000 gal. (2 compartments)
Pumping tank size	3000 gal.
Effluent loading rate	0.1gpd/sf initial system
	repair same
Total length and diameter	
of supply manifold:	app. 550 lf-2" 40 PVC
Number and length of laterals	5 @ 125' long
Flow distribution	5 tap pressure manifold
Flow rate through the system	27.4 gpm capability
Elevation head	30' *
Pressure head	2.0
Friction head	8.5
15% contingency	8.1'
Total head:	48.6'
Pump requirements	27.4 gpm at 48.6' of head use
	Goulds 3885 3hp pump or
	equivalent with compatible electrical
Dosing volume	300 gal – 2.0 doses/day for 5 days at
	design flow, with 2 days of rest
Depth of water pumped per dose.	calculated to specific tank by
	measure or dealer engineering
	specifications(1 cubic ft. of water
	equals 7.48 gals.)
Pump run per dose	approx. 10.9 min. (time control)
Check valve	Yes
Siphon break hole	No

ROUTING SLIP

To Sylvia Daniel
Department Envir. Health Div.
Building Hmc

CHARLOTTE
UTILITY DEPARTMENT
COMMUNICATION

- ☐ Note & have Sec'y file
- ☐ Note & return to me
- ☐ Note & see me about this
- ☐ For your approval
- ☐ Take appropriate action
- ☐ Make recommendations
- ☐ See me
- ☐ Sign
- ☒ For your information
- ☐ Per our conversation
- ☐ Per your request
- ☐ Request further information
- ☐ Call me at _____
- ☐ Please answer

REMARKS:
If you have questions about how to coordinate getting notice of these, please call Henry Forrest 391-5060

From Bob Bugge
Department CMUD - Backflow Prevention
Building Hmc Date 8/27/99

75.00 payable to
ing P.O. Box 1249
Monroe NC 28111

Record the following information on the voucher:

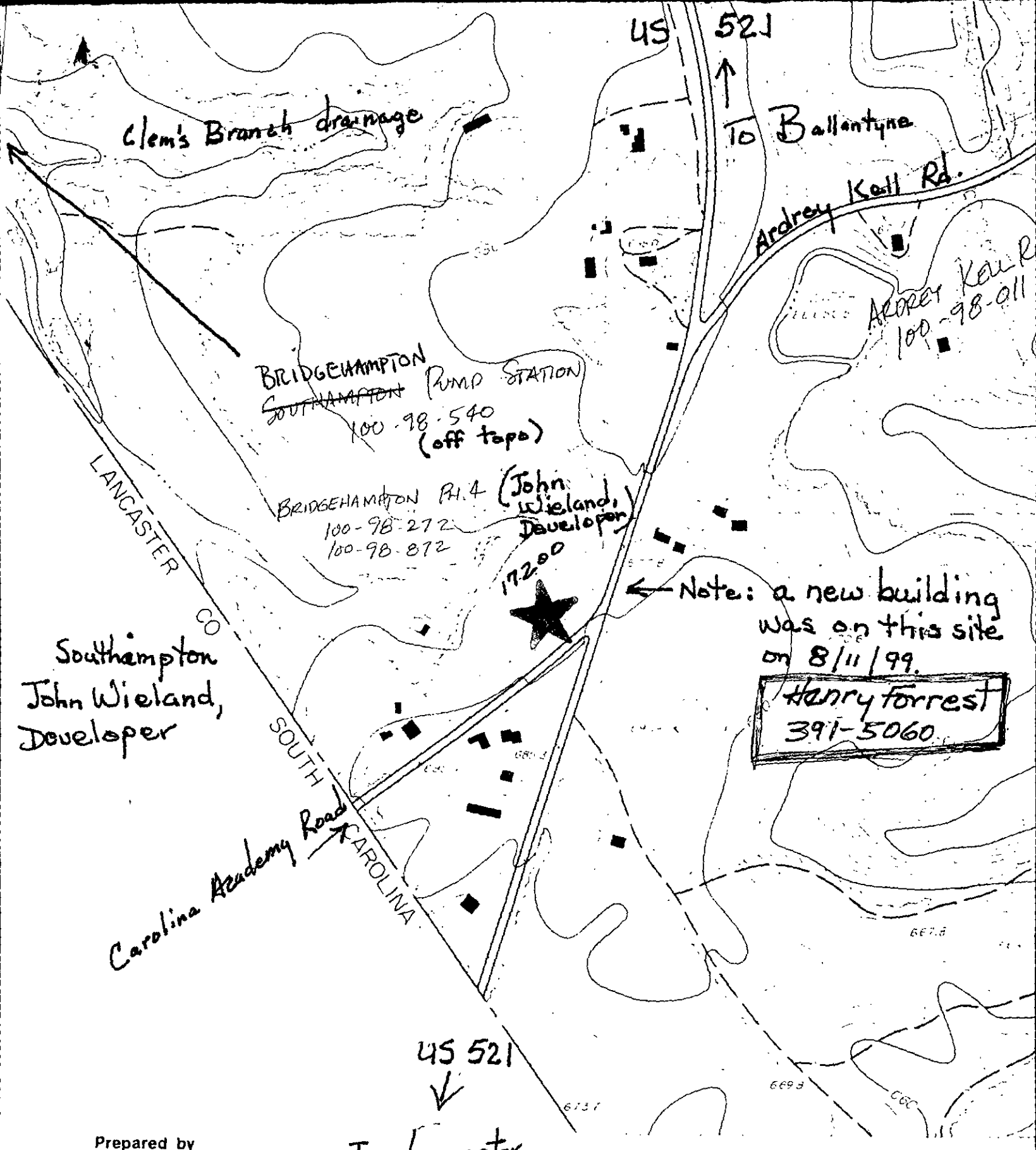
1. Job-Location: 17200 Carolina Academy Rd
2. Application Number 68175
3. Amount of Customer Deposit $ 2575.00
4. Cost of Job $ -0-
5. Charge to Account Cost of Tap - (water/sewer) - 7101-5755-715 1400.00 → 4" sewer
   Cost of Capacity fees - (water/sewer) - 7101-5755-715 1175.00 → Capacity fee based on 1" water connection
6. Reason for Refund: Customer cancelled request on septic tank

Ck. #:

Date:

Date Mailed:

**Return check to: UTILITY ADMINISTRATION, 5100 BROOKSHIRE BLVD.
Attn: Yvonne Miller



Prepared by

PSI

PHOTOGRAMMETRIC SERVICES, INC.

Reynoldsburg, Ohio

COPYRIGHTED

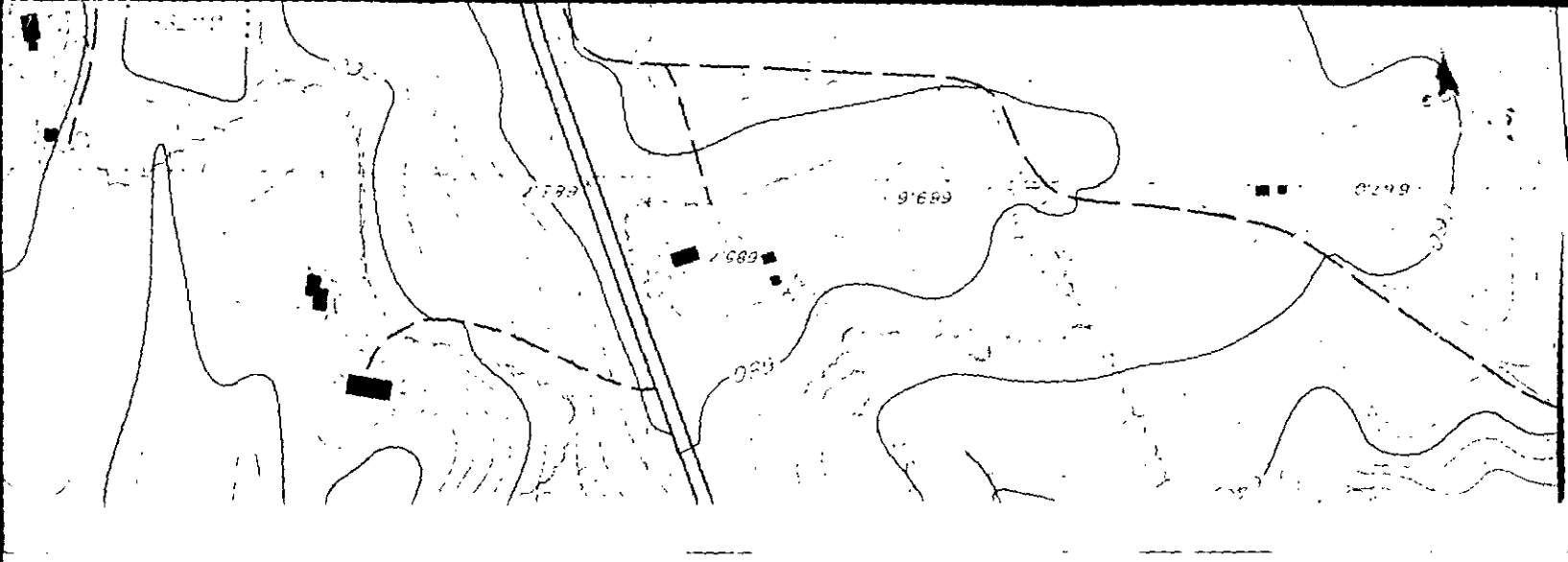
NORTH CAROLINA RECTANGULAR COORDINATE SYSTEM

ELEVATIONS REFERED TO MEAN SEA LEVEL DATUM

INDEXED AND IDENTIFIED BY SOUTHWEST COORDINATE

DATE OF PHOTOGRAPHY : 1975

Note: Water supplied to CMUD by Lancaster Co. Water and Sewer District
Sewage collection and pumping by CMUD to gravity sewer to Mallard



08/26/99 11:28:39

( ) MTF01 WATER TAP INQUIRY WORK ORDER NO. 9901970

OPER WMT PROJ.NO. - - DATE 08 / 11 / 1999 APPLICATION NO. 82402

ACCT.# 209578 LOT BLOCK MAP W1244 SIZE-TAP 1 IN. VALVE DCA

BILLING 3 (1=INSIDE W/S, 2=INSIDE W, 3=OUTSIDE W/S, 4=OUTSIDE W, 5=FIRELINE)

SERV-CLASS(A-V) O CONTRACT# INSTALLED(C,D,H) C CAP. FEE. PD.(Y,N) Y

DEPT.TRANSFER(Y)- N COST-$ 01293 . 00 DEPOSIT-$ 00025 . 00

SWR CAP.FEE-$. CAP.FEE-$ 00393 . 00 TOTAL CHARGE-$ 01711 . 00

SWR. APPL NO. SET METER:(Y,N) Y EMERGENCY(Y,N) N

------- HOUSE# DIR STREET NAME TYPE APT# TWN ----------

LOC. 17200 CAROLINA ACADEMY RD ME STREET SIDE

STREET NAME TYPE STREET NAME TYPE STATUS

BETWEEN U S 521 HY AND END

APP: ADDR

REMARKS TAP @ FLAG MICHALE CAMP 553-0834

ADBIL LOVE PLUMBING & AIR CONDITIONIN C/O KOREAN BIBLE PRESBYTERIAN CHURC

ADDR. P O BOX 1249 ADDR 17200 CAROLINA ACADEMY RD

CITY MONROE NC 28111 PHONE CITY CHARLOTTE NC 28277

PF1=MENU, PF3=END, PF4=NEW APPL, PF5=NEXT-APPL-NO, PF7=INSTALL-DATA,
PF9=REPRINT APPLICATION

DOSED GRAVITY INFILTRATOR SYSTEM

KOREAN BIBLE PRESBYTERIAN CHURCH

17200 CAROLINA ACADEMY ROAD
CHARLOTTE, N. C.

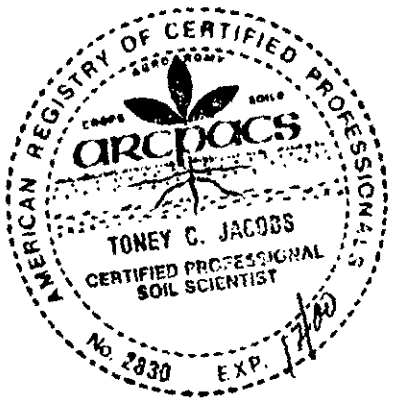
MECKLENBURG COUNTY - NORTH CAROLINA
MCHD FILE #2896B TAX PARCEL 223 04 101

by
Toney C. Jacobs & Associates, Inc.
Consulting Soil Scientists
168 Broadbill Drive
Mooresville, N. C. 28117

(704)663-6905
fax (704) 662-9845
e-mail jacobs@i-america.net

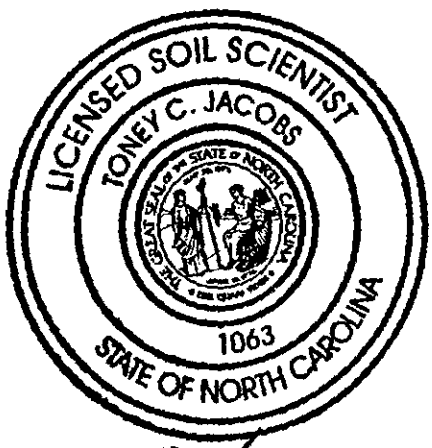
File Copy
Approved 6-2-99

May 26, 1999



Submitted to: ✓ Larry Thompson, R.S.
Mecklenburg County Health Dept.
Charlotte, NC

Mr. Ken Crowell
Metrolina Builders, Inc.
425 Hebron St.
Charlotte, NC 28273



Toney C. Jacobs, CPSS

Korean Bible Presbyterian Church
17200 Carolina Academy Road

DOSED GRAVITY DISTRIBUTION INFILTRATOR SYSTEM TYPE III b.

Design Considerations

The proposed system is for a 300 seat church on a 14 acre tract in a rural residential area of single family homes in southeastern Mecklenburg County. Sizing for the facility was supplied by Metrolina Builders and from zoning code summary (Appendix 1). The 300 seat facility has a non-commercial kitchen and flow is assigned at 5 gpd with design flow of 1500 gpd. Planned use is for Sunday and Wednesday. The pastor supplied information on projected use (Appendix 2). An inquiry about added use, such as kindergarten, day care, and school was made with the pastor and no plans were anticipated. A scale site plan of the tract is included in this plan. Absorption field design has been modified to 750 gpd per protocol with calculations shown on worksheet. The provisionally suitable area is approximately 500 feet from the building and is the closest usable septic area. Because of soil quality, the LTAR for this parcel and system is 0.3, a conservative rate but applicable for this soil. This rate was derived considering that the loading is not daily and a provision is included for some equalization at the pump tank (calculations page). The purpose and size require a 100% repair area, which has been laid out and repair system specified. This plan uses the best soil available. With any other areas of use an expensive pretreatment and drip would be required. It is expected that sewer will be available at the site in less than 2 years, but as required, this is not considered.

Soils were evaluated by both Bill Marlin and Larry Thompson of the Mecklenburg County Health Department and Toney Jacobs and Paul Penninger of Toney C. Jacobs & Associates. The system layout was by Toney C. Jacobs & Associates. To optimize the best soil, the chambered system was considered as the best suited system for the tract. This decision considers that there is another house and out building on the site which have old septic systems. This design leaves repair for both of these structures should the repair be required. The chambers are for the initial system with same repair. The septic system drainfield was flagged in the field as shown in Figure 1. The system will be pumped to a pressure manifold, gravity to the chambered system, using 5 x 125' lines. During construction and brush removal precautions should be taken to prevent damaging the system area. One old hedge row will have to be removed. The pump supply line is

routed so that it will not be covered by concrete or asphalt. It should be placed at 36-48" depth to prevent damage as the site is developed. There are two wells (one old, one new) next to the drainfield. Because public water is available at the church, these wells must be abandoned according to 2C rules. The wells must be closed before the system is completed and GW-30 form given to the MCHD at that time (Blank copy of form enclosed) A well driller or someone knowledgeable of the process should be used for this closure and reporting.

Location

The site is south on Hwy. 521, just before the S. C. state line (Appendix 1).

Reference

(1) *Laws and Rules for Ground Absorption Sewage Disposal Systems 15A NCAC 18A. 1900,* NCDEHNR-DEH.
(2) Infiltrator product information
(3) Pressure Manifold Design for Ground Absorption Sewage Systems (Berkowitz, 1986)

Recommendation

Six hundred and twenty five (625) lineal feet of dosed Infiltrator lines using gravity distribution. (Product information sheet on Infiltrator System, Inc. enclosed)

Ownership Responsibility

Conservation measures should be undertaken in plumbing fixture specifications to minimize the volume of wastewater entering the disposal system, including, but not limited to the following precautions:

(a) Provide water conserving plumbing fixtures within the facility. Waterclosets must be 1.6 gal. flush (per code).

(b) Develop conservative water use habits.

(c) Monitor and maintain the system as necessary for proper operation. An Operation Permit will not require a maintenance contract to be filed with the Mecklenburg County Health Department for the system. This is a Type III b. system, but it is recommended that the owners consider use of a local certified operator for best service and system longevity.

System must be properly installed by a *qualified* and *competent* contractor following the requirements of the Mecklenburg County Department of Environmental Health, DEH, the N.C. Building Code, Plumbing Code, and the Electrical Code. This plan, as any, is a guide to a minimum standard, but cannot take the place of experience and common sense.

Components of System

1. Two compartment septic tank - 3000 gal. The 2500 gal that is required by size is not readily available. Follow all new specifications for tanks, including filter.
2. Pump tank 3000 gallons (added capacity used as storage)
3. Supply pipe
4. Five (5) tap manifold with ½" schedule 80 taps from a 3" manifold pipe
5. 625' of chambers with sand backfill on the sides.

Construction Sequence

1. Lines have been flagged as noted on drawing and in specifications.
2. Clear the area of all organic material with minimum soil disturbance (do not grade). Backfill any low areas with clean sandy loam to natural compaction and look. This includes soil evaluation pit and any stump holes.
3. Install trenches per cited reference material and this plan.
4. Carefully backfill distribution trenches to grade with clean clay or clay loam soil fill material which is carefully placed and compacted.
5. The installation contractor shall stabilize the area of construction by planting with Kentucky 31 tall Fescue and mulching. Area to be limed and fertilized with 0.5 tons lime, 75 units of N, 150 units P, and 100 units of K per disturbed acre.
6. The septic tank shall consist of an approved 3000 gallon capacity reinforced, precast watertight, concrete tank with full baffle and shall have access from the ground level per code. The first chamber of the septic tank shall consist of 2/3 to 3/4 of the volume of the total tank and the baffle shall contain a horizontal opening across the tank at about midway . Locate the septic tank at such height as to provide approximately 8" of cover soil over top of the tank installed with riser and filter per code.
7. The dosing tank shall consist of an approved 3000 gallon capacity, reinforced, precast, watertight concrete tank without baffle and shall have a concrete mounting pad (concrete blocks) for accommodating the pump. Test for leakage per regulations. Provide access for entry into the tank directly over the pump location, and extending 6" above final grade. Use a 30" diameter concrete well casing or equivalent and concrete well cap or other approved type cover. There must be a seal (masonry or seal rope) between riser and top of tank.
8. All piping and fitting shall be SCH 40 PVC. Glue for all PVC pipe joints shall be as recommended by the pipe manufacturer.

9. Pump: The submerged pump shall be Model 3885 ¾ hp manufactured by Goulds or equal, 115 or 230 v/l phase; capable of pumping 27.4 gallons per minute at 48.6' of head.

10. Pump controls and alarm to meet specifications of .1952, all being compatible and used with Simplex weatherproof controls with alarm. Pump control to dose twice daily for 10.9 min. for 5 days and rest system for 2 consecutive days each week. The Simplex control box is readily available with a digital clock which can be set to a fraction of a minute. It can be set to skip days, and will not let the pump operate when there is no effluent to be pumped. Set system to pump Sunday through Thursday, then rest on Friday and Saturday.

11. A "Warning Sign" shall be located within the church to inform the staff or occupants of action to take in case the "High Water Alarm" is activated. This sign shall contain the name, address, telephone number, and emergency telephone number of the person to contact upon malfunction of the system.

12. Pump and Controls: Details of pump installation are shown in the plan. The pump must be placed on concrete blocks on the bottom of the tank. This prevents the pumping of any solid particles which can clog the pipe system. A piece of nylon rope or other non-corrodible material should be attached to the pump and the outlet pipe for lifting the pump in and out of the chamber. Controls should be fastened to a "tree" or the outlet pipe with clamps or brackets supplied by the manufacturer. The lower level control or "pump-off' must be positioned above the pump, so that the pump remains submerged at all times. The level control "pump-on" is positioned to pump a specified volume of effluent. The high water control float is then mounted about 3" above the upper pump-on control. (Note: Care must be taken to insure that floats do not become fouled by other components in the tank, such as the electric power cord or the lifting rope. It is highly recommended that a telescoping "tree" be used for floats to facilitate adjustments.) The pump outlet pipe should be connected to the supply manifold with a threaded PVC union (or dresser coupling) to allow quick removal.

13. Electrical Connections: The pump and high water alarm must be placed on separate electrical circuits. (If the pump circuit fails, the alarm must still be able to operate). Follow the manufacturers recommendations for the proper fuses or circuit breakers. All electrical connections must be made outside the pumping chamber. Power cords from the pumps and controls should be plugged into a NEMA 4X approved outdoor receptacle. This must not be located inside the pumping chamber due to the corrosive and explosive

gasses that may form from the sewage. This box must be a minimum of 1' above finished grade. Some level control switches have a box built into the housing, but are more expensive than the plug-in devices. Wiring between the pumping chamber and the station should meet State and local code requirements. A lightning arrester is recommended to protect the pump and controls from electrical surges.

14. Proper Operation Check: After all components have been installed and connected, the system should be checked for proper operation. With electrical power turned off, fill the pumping chamber with water from garden hose until the liquid rises to the level of the high-water alarm float. Turn on the electrical power. The alarm light should go on in the house, and the pump should start operating. The alarm light should go off when the liquid reaches the lowest float control. Be sure the pump is still completely submerged. With someone at the surge tank, turn pump on and set gate valve at surge tank to deliver 21.3 gpm.

15. Final Landscaping: After the system is installed, the absorption field should be reshaped to shed rainwater and be free of low areas to insure that the system will not be overloaded with excess rainwater and run-on.

16. Supply pipe should have a metal locator tape or wire should it have to be located. This is required of this plan. It should be 48" deep

Concluding Note:

This plan was done to facilitate permitting by the Mecklenburg County Health Department by an agent of the general contractor. Because of the complexity of this system, a pre-installation meeting between Toney C. Jacobs & Associates and the installer is recommended, but only if needed. This is dependent on the competence and experience of the septic contractor. This pre-construction meeting will be billed to the general contractor at current rates. At this time the pump size can be adjusted if necessary. Any additions, or additional requirement(s), or deletions to enhance design or workability which will facilitate a permit are welcomed and may be made by note on this plan without returning entire design. The designer realizes that a plan with as many details as this can be changed and/or improved upon. The installer must realize that this is an exact plan and must be followed and installed with exacting measurements. Should the installer desire a change, it must be approved by the health department in writing. Final inspection will also require more time and detail than a conventional system. If there are questions, please give me a call.

Design Specifications

17200 Carolina Academy Road

Daily design flow:	1500 gpd. (300 seats at 5 GPS)
Septic tank size:	3000 gal. (2 compartments)
Pumping tank size:	3000 gal.
Effluent loading rate:	0.3gpd/sf initial system repair same
Total length and diameter of supply manifold:	app. 550 lf-2" 40 PVC
Number and length of laterals:	5 @ 125' long
Flow distribution:	5 tap pressure manifold
Flow rate through the system:	27.4 gpm capability
Elevation head:	30' *
Pressure head:	2.0'
Friction head:	8.5'
15% contingency	8.1'
Total head:	48.6'
Pump requirements:	27.4 gpm at 48.6' of head; use Goulds 3885 ¾hp pump or equivalent with compatible electrical
Dosing volume:	300 gal. – 2.0 doses/day for 5 days at design flow, with 2 days of rest
Depth of water pumped per dose:	calculated to specific tank by measure or dealer engineering specifications(1 cubic ft. of water equals 7.48 gals.)
Pump run per dose:	approx. 10.9 min. (time control)
Check valve:	Yes
Siphon break hole:	No

Carolina Academ

WORKSHEET

TANK size .1952(L)(2)(C)

$V = 0.75\,Q + 1{,}125$

$(1500)(.75) + 1125 = 2250$

Drainfield

1500 GPD ÷ 0.3 LTAR = 5000 ft²

÷ 3 = 1666.7 lineal conv. X .75 for chambers

= 1250 lineal feet.

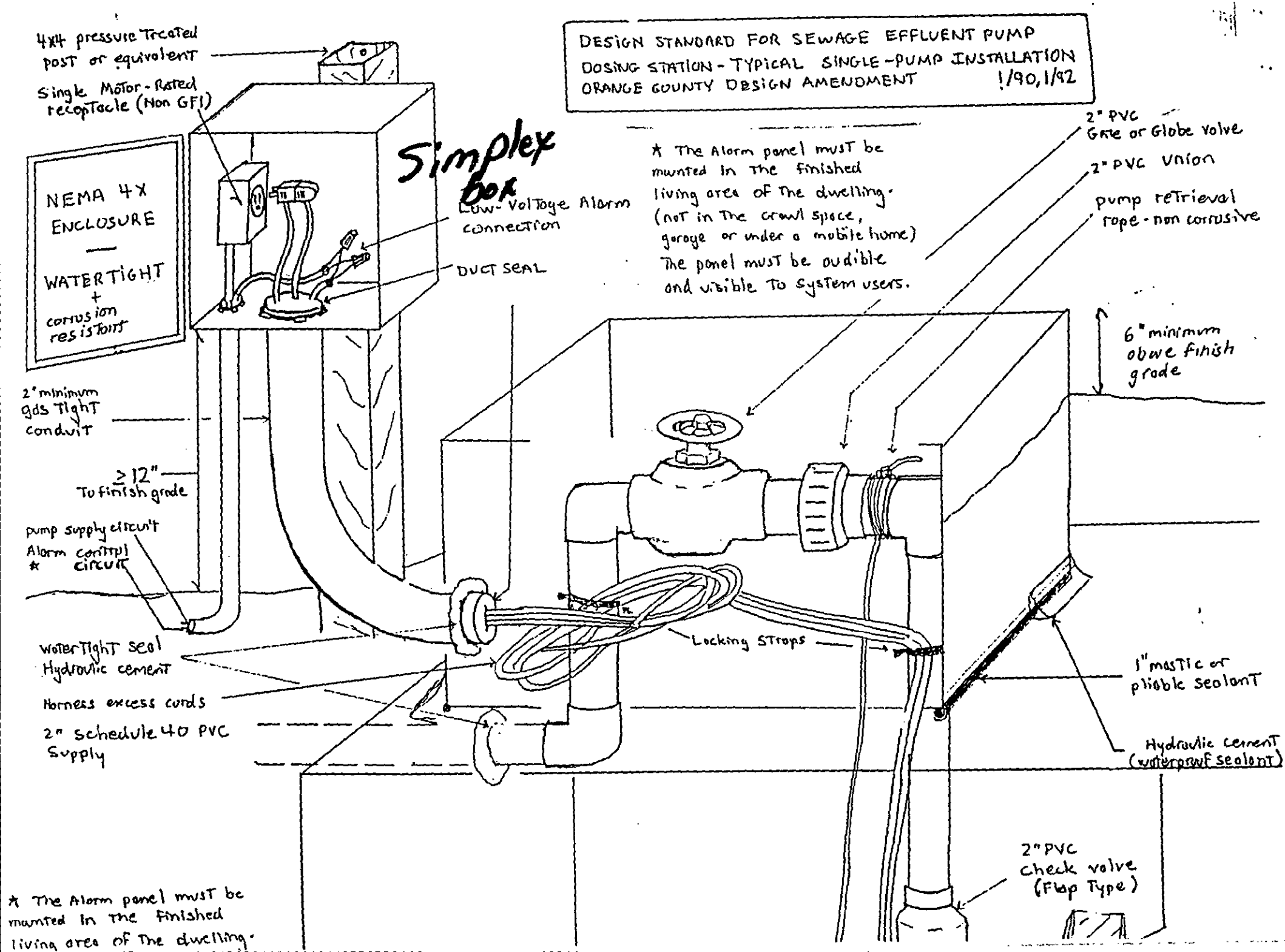
Because check + 2 day operation

1500 X 2 = 3000 GPW ÷ 5 days for use = 600 GPD

X 25% upgrade = 750 GPD field

÷ .3 = 2500 ft² ÷ 3 = 833 lineal conv.

X .75 for chambers = 625 needed in 5 lin. @ 125'


DESIGN STANDARD FOR SEWAGE EFFLUENT PUMP
DOSING STATION - TYPICAL SINGLE-PUMP INSTALLATION
ORANGE COUNTY DESIGN AMENDMENT 1/90, 1/92
4x4 pressure Treated post or equivalent
Single Motor-Rated receptacle (Non GFI)
Simplex box
NEMA 4X ENCLOSURE
WATERTIGHT + corrosion resistant
Low-Voltage Alarm connection
DUCT SEAL
* The Alarm panel must be mounted in the finished living area of the dwelling. (not in the crawl space, garage or under a mobile home) The panel must be audible and visible to system users.
2" PVC Gate or Globe Valve
2" PVC Union
pump retrieval rope - non corrosive
6" minimum above finish grade
2" minimum gas tight conduit
≥ 12" To finish grade
pump supply circuit
Alarm control * circuit
Watertight seal Hydraulic cement
Harness excess cords
2" Schedule 40 PVC Supply
Locking Straps
1" mastic or pliable sealant
Hydraulic cement (waterproof sealant)
2" PVC check valve (Flap Type)
* The Alarm panel must be mounted in the finished living area of the dwelling.

KBPC

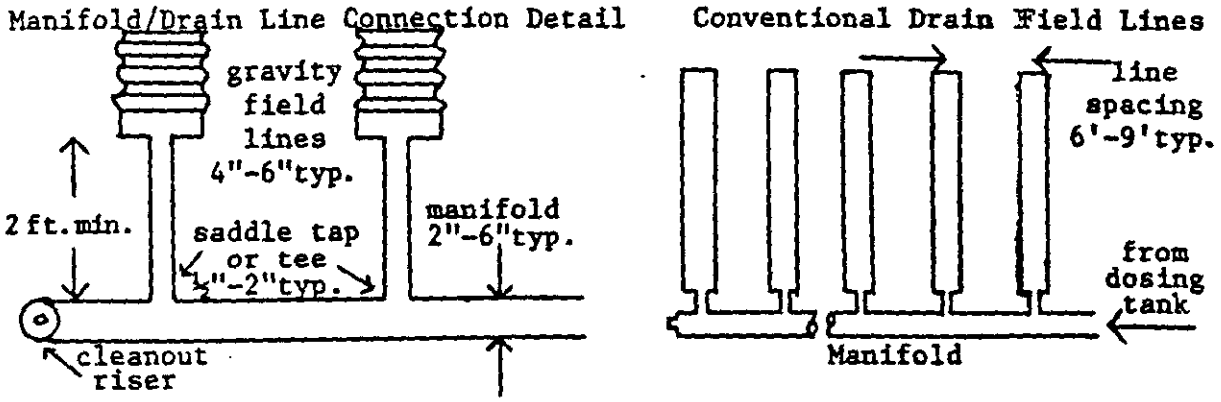


Fig. 1 Pressure Manifold For Level Site (1 ft. = .305 m)

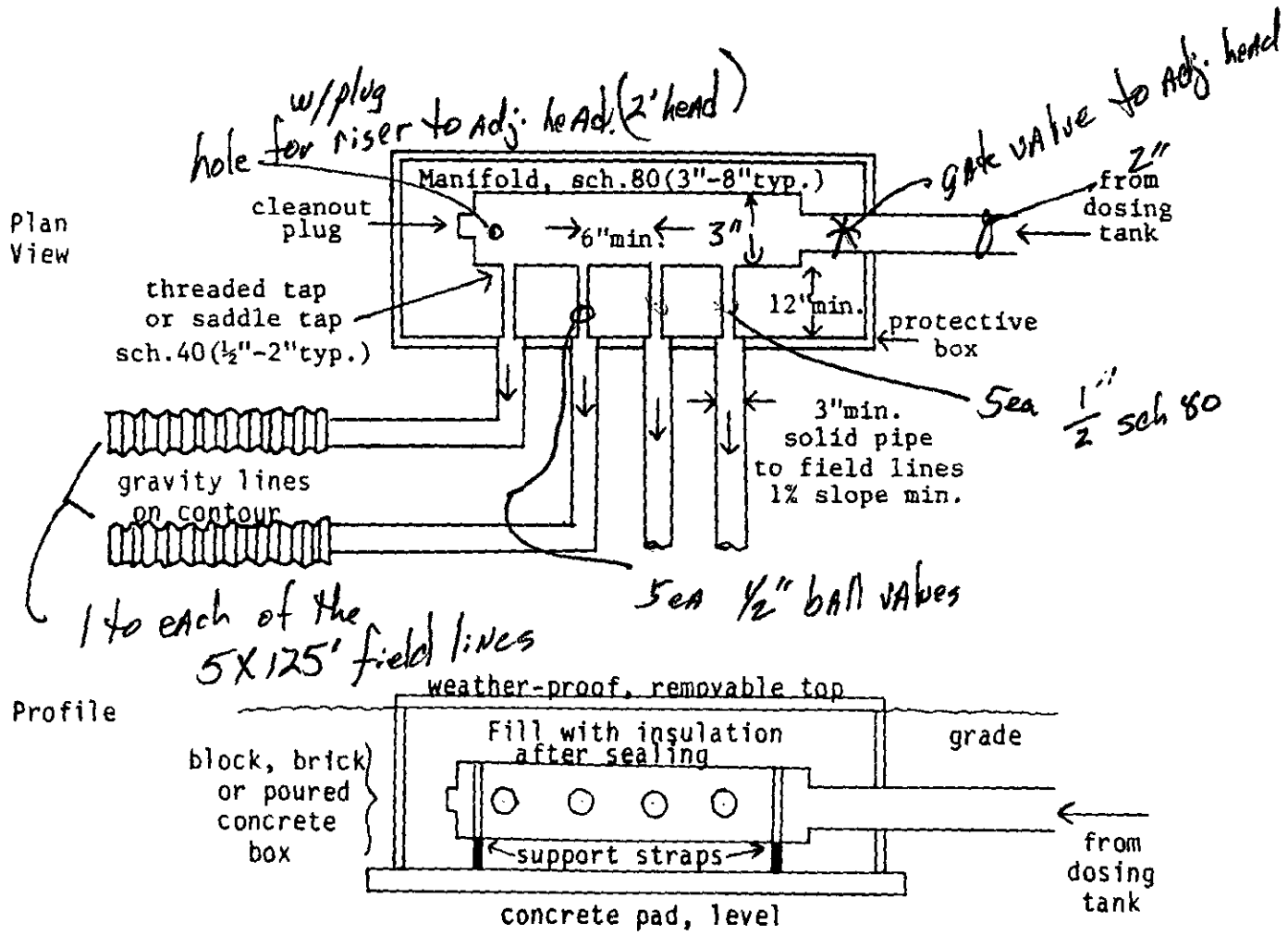
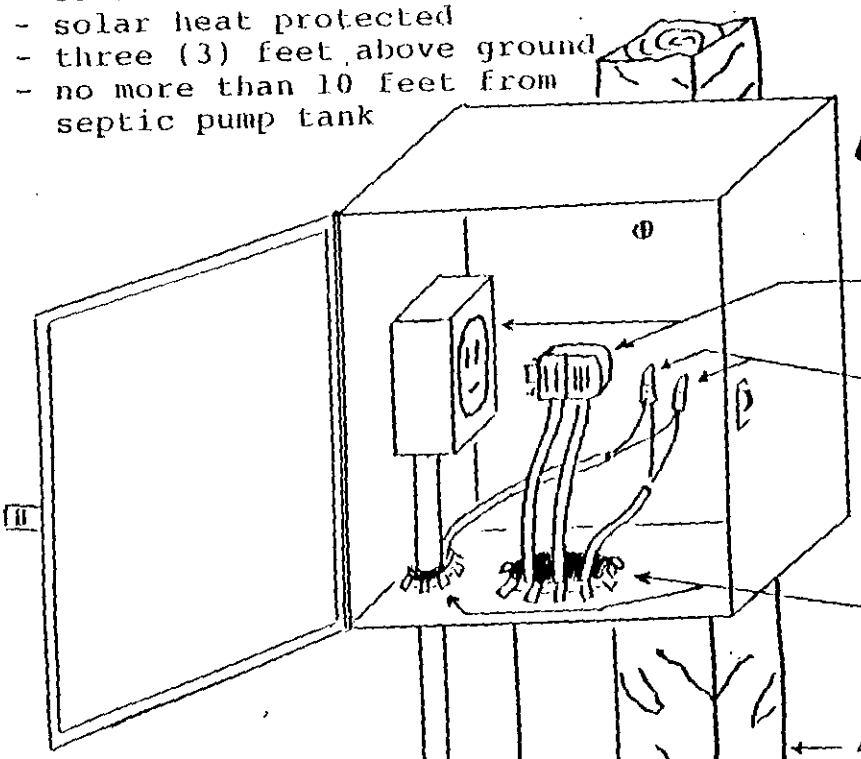


Fig. 2 Pressure Manifold For Sloping Sites

from Berkowitz, 1986

Simplex box

NEMA 4X ENCLOSURE must be:
- water tight
- corrosion resistant
- solar heat protected
- three (3) feet above ground
- no more than 10 feet from septic pump tank



Pump Power Connection

Low Voltage Alarm:
- for audible
- for visual

Duct Seal

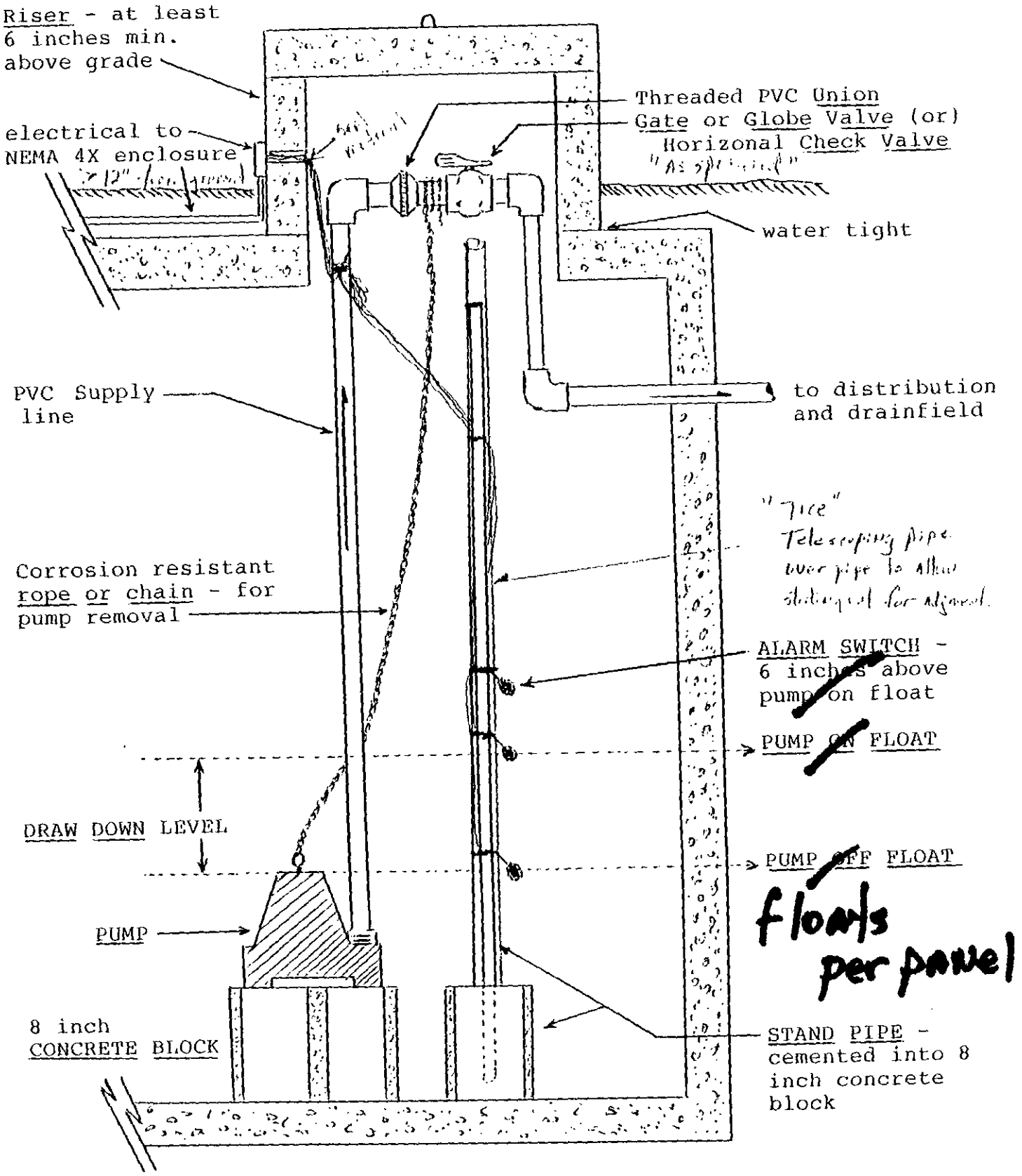
4X4 Pressure Treated Post or the equivalent:
- may be attached to dwelling if not more than 10 feet from septic pump tank

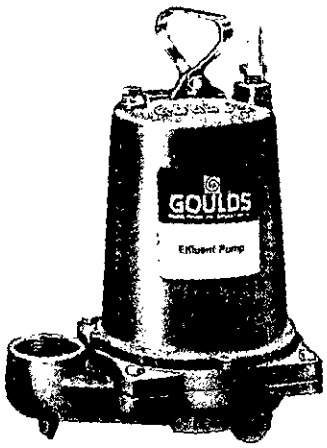
Conduit: waterproof, gas-proof, corrosion resistant (no splices in conduit line)

to dwelling

to pump tank

PUMP DIAGRAM





Goulds
Submersible Effluent Pump

MODEL

3885

APPLICATIONS

Specifically designed for the following uses:
- Homes
- Farms
- Trailer courts
- Motels
- Schools
- Hospitals
- Industry
- Effluent systems

SPECIFICATIONS

Pump
- Solids handling capabilities: ¾" maximum.
- Discharge size: 2" NPT.
- Capacities: up to 128 GPM.
- Total heads: up to 123 feet TDH.
- Mechanical seal: silicon carbide-rotary seat/silicon carbide-stationary seat, 300 series stainless steel metal parts, BUNA-N elastomers.
- Temperature: 104°F (40°C) continuous 140°F (60°C) intermittent.
- Fasteners: 300 series stainless steel.
- Capable of running dry without damage to components.

Motor
Single phase:
- ⅓ HP, 115 V, 200 V, 230 V, 60 Hz, 1750 RPM; ½ HP, 115 V, 60 Hz, 3500 RPM; ½ HP – 1½ HP, 230 V, 60 Hz, 3500 RPM.
- Built-in overload with automatic reset.
- Class B insulation.

Three phase:
- ½ HP – 1½ HP 200/230/460 V, 60 Hz, 3500 RPM.
- Class B insulation.
- Overload protection must be provided in starter unit.
- Shaft: threaded, 400 series stainless steel.
- Bearings: ball bearings upper and lower.
- Power cord: 20 foot standard length (optional lengths available).

Single phase:
- ⅓ and ½ HP – 16/3 SJTO with 115 V or 230 V three prong plug.
- ¾-1½ HP – 14/3 STO with bare leads.

Three phase:
- ½-1½ HP – 14/4 STO with bare leads. On CSA listed models – 20 foot length SJTW and STW are standard.

FEATURES

■ **Impeller:** Cast iron, semi-open, non-clog with pump-out vanes for mechanical seal protection. Balanced for smooth operation. Silicon bronze impeller available as an option.

■ **Casing:** Cast iron volute type for maximum efficiency. 2" NPT discharge adaptable for slide rail systems.

■ **Mechanical Seal: SILICON CARBIDE VS. SILICON CARBIDE** sealing faces. Stainless steel metal parts, BUNA-N elastomers.

■ **Shaft:** Corrosion-resistant stainless steel. Threaded design. Locknut on three phase models to guard against component damage on accidental reverse rotation.

■ **Motor:** Fully submerged in high-grade turbine oil for lubrication and efficient heat transfer.

■ **Designed for Continuous Operation:** Pump ratings are within the motor manufacturer's recommended working limits, can be operated continuously without damage.

■ **Bearings:** Upper and lower heavy duty ball bearing construction.

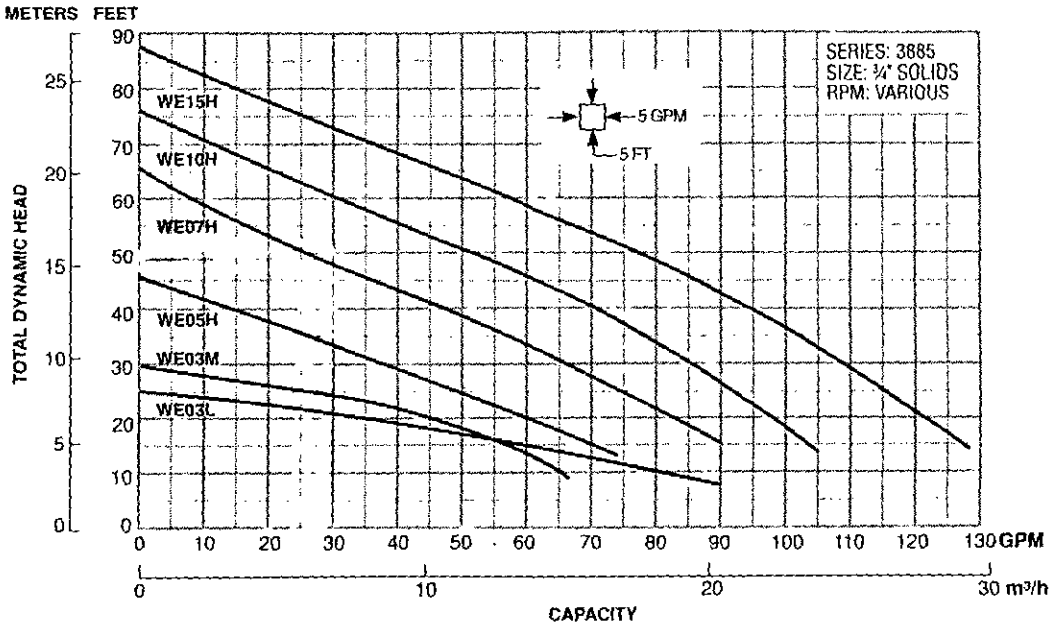
■ **Power Cable:** Severe duty rated, oil and water resistant. Epoxy seal on motor end provides secondary moisture barrier in case of outer jacket damage and to prevent oil wicking.

■ **O-ring:** Assures positive sealing against contaminants and oil leakage.

AGENCY LISTINGS

CSA Canadian Standards Association

UL Underwriters Laboratories



© 1995 Goulds Pumps

Note
This is basic Simplex actural control w.11 have 7day clock & run meter

Goulds

SES Series Customized Control Panels

Simplex/Weather Proof Controller with Alarm



APPLICATIONS

Superior quality simplex liquid level controller, automatically maintains pump operation, includes high level alarm warning for a variety of sump, effluent, sewage and water transfer applications.

SPECIFICATIONS

- Accepts single or dual power feed.
- Hand-off automatic pump selection switch.
- On-off control circuit switch.
- Oversized magnetic contactor.
- Numbered terminal strip-screw type.
- NEMA 4X, 30 watt, flashing red light.
- NEMA 4X, fiberglass enclosure with gasketed, hinged door and stainless steel hardware.
- NEMA 4X, alarm horn – 95db.
- 115 V, 3 amp, control circuit breaker.

Single Phase

- Field adjustable for 115 or 230 V, 60 Hz.

Maximum Pump Running Amps	Panel Order No.
20	S10020
27 (3 HP)	S10027*
36 (5 HP)	S10036*

*For 3 and 5 HP single phase, includes run capacitors and pilot duty overloads.

Three Phase

- Field adjustable for 208/230 /460/575 V, 60 Hz.
- 115V control circuit transformer.
- Adjustable motor overload protectors.
- **Heaters not required.**

Maximum Pump Running Amps	Panel Order No.
1.6 to 2.5	S31625
2.5 to 4.0	S32540
4.0 to 6.3	S34063
6.3 to 10	S36310
10 to 16	S31016
16 to 20	S31620
20 to 25	S32025

FEATURES

■ Rugged NEMA 4X construction withstands even the most severe weather conditions and prevents corrosion.

■ Hinged door with lockable stainless steel latch for safe operation indoors and out.

■ High level alarm circuit includes spring loaded through door mounted silence switch for manual silence of alarm horn.

■ Through door mounted alarm test switch insures proper operation of the alarm circuit without the need to open the panel.

■ Through door mounted pump run light.

■ Top mounted high intensity flashing red light provides 360° visibility.

■ Pulsating, corrosion proof alarm horn.

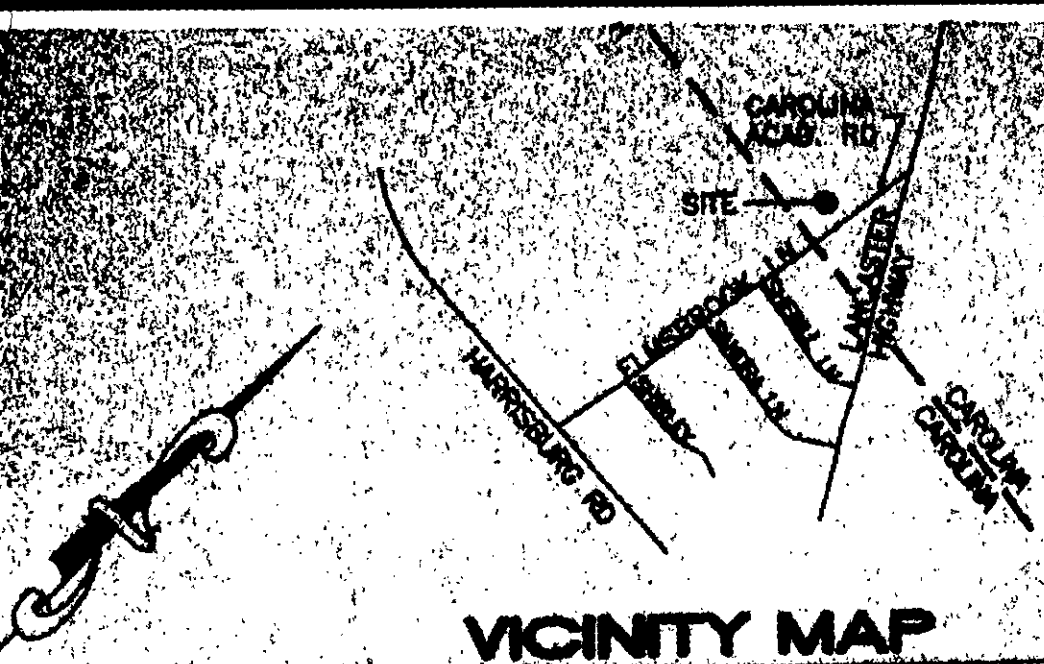
■ Color coded wiring, screw type terminals and plug in sockets, ensure ease of field servicing.

■ Field wiring diagram, panel schematic and installation instructions included.

■ Panel can be wired for a single power feed for pump and control circuit or the control circuit can be wired to a separate power supply to insure alarm integrity in case of a tripped pump breaker.

■ Entire unit is UL/CSA approved and listed.

© 1995 Goulds Pumps



VICINITY MAP

NTS

ZONING CODE SUMMARY

PROJECT NAME: KOREAN BIBLE CHURCH

OWNER: KOREAN BIBLE CHURCH PHONE #:

PLANS PREPARED BY: WILLIAM E. BRUCE PHONE #: (704) 334-0022

ZONING: R-3 JURISDICTION: MECKL

PROPOSED USE: CHURCH

BUILDING HEIGHT: FEET, STORIES: ONE

BUILDING COVERAGE: 7,040 SQ. FT. GROSS FLOOR AREA: 7,040 SQ. FT.

LOT SIZE: 5.32± SQ. FT. (ACRES) NUMBER OF UNITS/SUITES: 1

YARD REQUIREMENTS

SETBACK (FRONT): 30 FT. FROM R/W, — FT. FROM C/L OF R/W

SIDE YARD (S): 26 FT. SIDE YARD (L): 75 FT.

REAR YARD: 36 FT.

BUFFERING REQUIRED

FRONT: ☐ YES / ☒ NO FT. REAR: ☐ YES / ☒ NO FT.

SIDE (S): ☐ YES / ☒ NO FT. SIDE (L): ☐ YES / ☒ NO FT.

BUFFERING PROVIDED

FRONT: ☐ YES / ☒ NO REAR: ☐ YES / ☐ NO

SIDE (S): ☐ YES / ☒ NO SIDE (L): ☐ YES / ☐ NO

PARKING SCREENED: ☐ YES / ☐ NO

PAVEMENT COVERAGE: 1.17 SQ. FT. (ACRES)

PARKING DATA (SPECIFY REQUIREMENTS)

ONE (1) PER 4 SEATS 300 SEATS / 4 = 75

REQUIRED: 75 PROVIDED: 97 HANDICAP: 4 COMPACT: 0

ALL SIGNAGE WILL BE APPROVED AND PERMITTED SEPARATELY.

TAX PARCEL 223 04 101

LEGEND

— — — EXIST. CONTOUR

——— PROPOSED CONTOUR

——— - ——— DENUDED LIMITS

———x——— SILT FENCE STD. 30.06

———→ DIRECTION OF SURFACE FLOW

——— EDGE OF PAVEMENT (NO CURB & GUTTER ON PROJECT)

WILLIAM E. BRUCE
Construction Consultant
1650 Elizabeth Avenue
Suite 200
Charlotte, NC 28204
(704) 334-0022
fax: (704) 334-1018

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 4107 ENGINEER D. ERIC SUTTON

METROLINA BUILDERS, INC.
GENERAL CONTRACTORS

To: Todd Jacobs
From: Michael Camp
5/10/99
Todd - Here is info you requested. Please process & provide quotation asap. Thanks

May 6, 1999

Pastor Lim
Korean Bible Presbyterian Church
1805 East Seventh Street
Charlotte, NC 28204

Dear Pastor Lim:

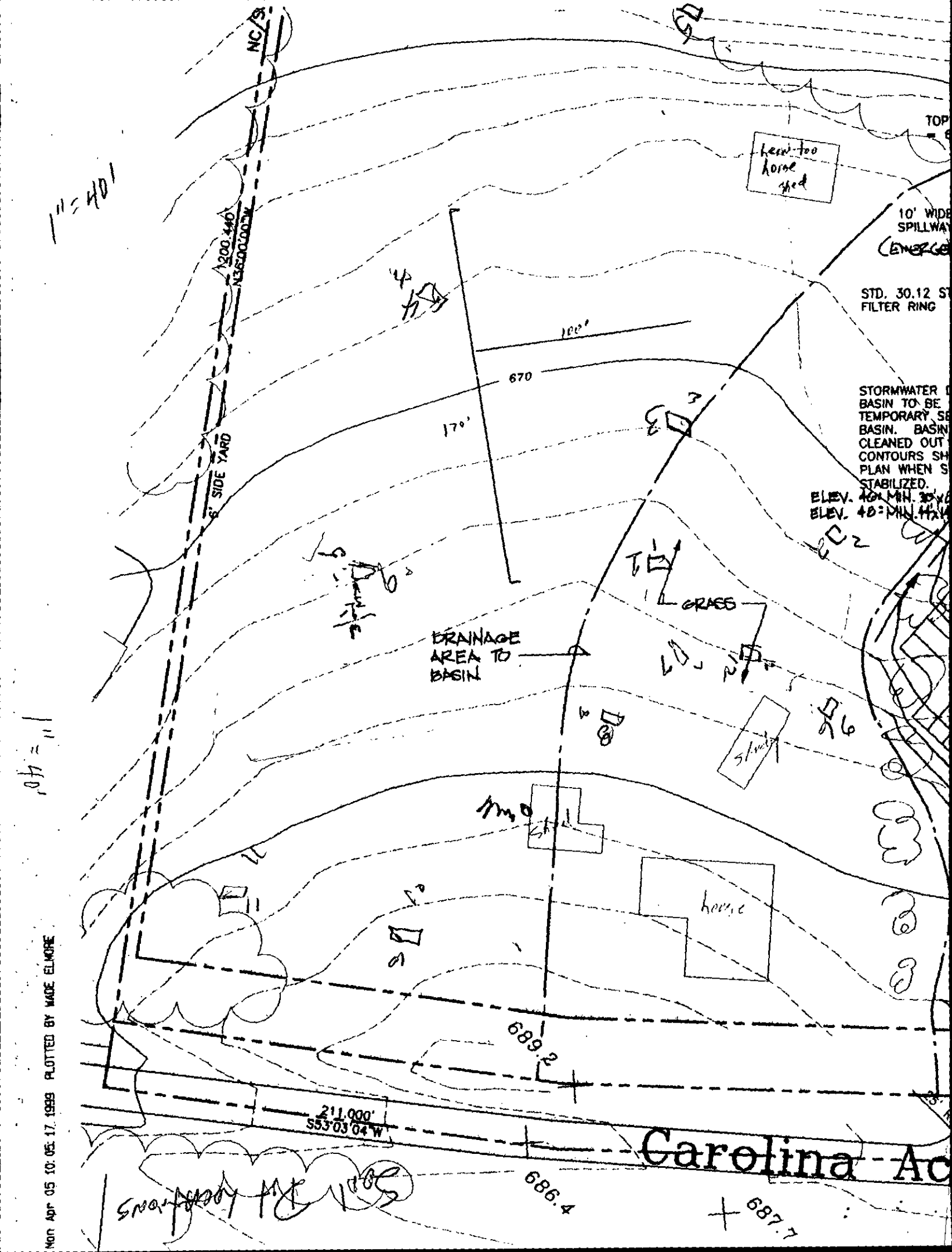
In order to complete the septic system design for your new building, we need to know your anticipated, typical weekly attendance. Please fill out the following chart to the best of your ability and return via Fax. Please call with any questions.

Day of Week	Activity	Activity Duration	Attendance
~~Example~~ ~~Sunday~~	~~Morning Worship~~	~~4 hours~~	~~250~~
Wednesday	Prayermeeting	2	prospect Number 100
Sunday	Morn'g worship	4	prospect N. 250

Sincerely,

Michael Camp
V.P. Project Management

425 HEBRON ST. • CHARLOTTE, NORTH CAROLINA 28273 • PHONE 704 553-0834
P.O. BOX 240338 • CHARLOTTE, NORTH CAROLINA 28224
• FAX 704 553-2096 •


1"=40'
NC 751
200.44'
N36°00'00"W
6' SIDE YARD
100'
670
17'
lean-too
horse
shed
10' WIDE
SPILLWAY
STD. 30.12 ST
FILTER RING
STORMWATER
BASIN TO BE
TEMPORARY SE
BASIN. BASIN
CLEANED OUT
CONTOURS SH
PLAN WHEN S
STABILIZED.
ELEV. 40' MIN. 30'x
ELEV. 40 = MIN. 11'x
GRASS
DRAINAGE
AREA TO
BASIN
shed
house
689.2
211.000'
S53°03'04"W
686.4
687.7
Carolina Ac
Mon Apr 05 10:05:17 1999 PLOTTED BY WADE ELMORE

Terry

TCJ CONSULTING

SITE / SOIL EVALUATION

JOB: KBP Church PHONE: DATE: 5/20/99

LOCATION: PIN: COUNTY: PROPERTY SIZE:

PROPOSED FACILITY: WATER SUPPLY: On-Site Well__ Community__ Public__ EVALUATION: Auger Boring__ Pit__ Cut

WEATHER: ANTECEDENT MOISTURE: SURFACE WATER:

near tributary

FACTORS	PROFILE 1	PROFILE 2	PROFILE 3	PROFILE 4
LANDSCAPE POSITION	N	mid-slope in N		
HORIZON I DEPTH	0-4	0-3	0-6	0-8
Color - Munsell	dk by 7.5YR4/2	dk br	dk br	dk by
Texture	sl	sl	sl	sl
Structure	gr	gr	gr	gr
Consistence	fri m gravelly	fri c cobbly	fri cl rock	fri c-m rocky
Boundary	c	c	c	c
HORIZON DEPTH II	4-16	3-13	6-18	8-30
Color - Munsell	st br 7.5YR5/6	br	br	st br 7.5YR5/6
Texture	sl	sl	sl	sl
Mottles	NA	NA	NA	NA
Structure	gr to NSAB	gr	gr NSAB	gr
Consistence	fri NSWP f gravelly	fri NSWP	fri NSNP	fri, NSWP f rocky
Boundary	g	c		wav
HORIZON III DEPTH	16-46	13-41	18-36	30-44
Color - Munsell	red 10R5/8	red 2.5YR5/6	red w/ yel br 5YR5/6	yel br
Texture	SC, gr, cl	cl	c	v c, heavy cl
Mottles	- yel, t/pm & yel/r	few yel br 7.5	M mottled to 3	M yel brn/org
Structure	WF SAB,	mf SAB, AB	mf AB	MF AB
Consistence	fri SS, SP to SP w/a wk clay	fri SS, SP to SP	fri SP	fri SP
Boundary	g	g	g	g
HORIZON IV DEPTH	46-60	41-61	36-51	44-60
Color - Munsell	mottled yel/red/wh	var. yel/red/white	mottled white/yel/red	var
Texture	C, cl w/silt inc	Cl, l, sand	sap c, scl	cl
Mottles	vfi to sev	vfi to few	vfi	NA
Structure	WF SAB, to M	vw mf SAB to M	M to RC	MF SAB, AB
Consistence	fri SS, SP	fri SS, SP to SS, NP	fri SS, SP	fri NS, NP
Boundary				
SOIL WETNESS				
RESTRICTIVE HORIZON				
SAPROLITE				
LTAR	.3	.3	.1-.15	.1-.15
CLASSIFICATION	ps	ps	ps vsp clay	ps vsp clay Lpp

LEGEND

LANDSCAPE POSITION
R - Ridge
S - Shoulder
L - Linear slope
S - Foot slope
N - Nose slope
H - Head slope
Cc - Concave slope
Cv - Convex slope
T - Terrace
F - Flood Plain

TEXTURE
s - sand
ls - loamy sand
sl - sandy loam
l - loam
si - silt
sil - silt loam
sicl - silty clay loam
cl - clay loam
scl - sandy clay loam
sc - sandy clay
sic - silty clay
c - clay

CONSISTENCE
MOIST
vfr - very friable
fr - friable
fi - firm
vfi - very firm
efi - extremely firm

WET
Ns - non-sticky
Ss - slightly sticky
S - sticky
Vs - very sticky

Np - non-plastic
Sp - slightly plastic
P - plastic
Vp - very plastic

STRUCTURE
sg - single grain
m - massive
cr - crumb
gr - granular
sab - subangular blocky
ab - angular blocky
pl - platy
pr - prismatic

TCJ CONSULTING

SITE / SOIL EVALUATION

JOB:_____ PHONE:_____ DATE:_____

LOCATION:_____ PIN:_____ COUNTY:_____ PROPERTY SIZE:_____

PROPOSED FACILITY:_____ WATER SUPPLY: On-Site Well__ Community__ Public__ EVALUATION: Auger Boring__ Pit__ Cut_____

WEATHER:_____ ANTECEDENT MOISTURE:_____ SURFACE WATER:_____

in woods off of hill

FACTORS	PROFILE 5	PROFILE 6	PROFILE_	PROFILE_
LANDSCAPE POSITION-%	LS	LS		
HORIZON I DEPTH	0-3	0-15		
Color - Munsell	dk br	dk brn		
Texture	sl, scl	sl		
Structure	gr	gr		
Consistence	fri	fri		
	many fine roots	few		
Boundary	C	C		
HORIZON DEPTH II	3-18	15-32		
Color - Munsell	yel red 5YR5/6	red yel		
Texture	c, cl	C		
Mottles	NA	NA		
Structure	mm SAB, AB	wk sbk, AB		
Consistence	fri to fm	fri		
Boundary	grad wavy			
HORIZON III DEPTH	18-60			
Color - Munsell	red/strong red yel red			
Texture	C			
Mottles	few to com			
Structure	MA			
Consistence	fri to fm			
Boundary				
HORIZON IV DEPTH				
Color - Munsell				
Texture				
Mottles				
Structure				
Consistence				
Boundary				
SOIL WETNESS				
RESTRICTIVE HORIZON				
SAPROLITE				
LTAR	.2			
CLASSIFICATION	fine clay			

LEGEND

LANDSCAPE POSITION
R - Ridge SM-sr/ho-sc
S - Shoulder
L - Linear slope
S - Foot slope
N - Nose slope
H - Head slope
Cc - Concave slope
Cv - Convex slope
T - Terrace
P - Flood Plain

TEXTURE
s - sand
ls - loamy sand
sl - sandy loam
l - loam
si - silt
sil - silt loam
sicl - silty clay loam
cl - clay loam
scl - sandy clay loam
sc - sandy clay
sic - silty clay
c - clay

CONSISTENCE
moist / wet

WET
Ns - non-sticky
Ss - slightly sticky
S - sticky
Vs - very sticky

Np - non-plastic
Sp - slightly plastic
P - plastic
Vp - very plastic

MOIST
vfi - very friable
fr - friable
fi - firm
vfi - very firm
efi - extremely firm

STRUCTURE
sg - single grain
m - massive
cr - crumb
gr - granular
sab - subangular blocky
ab - angular blocky
pl - platy
pr - prismatic

TCJ CONSULTING

SITE / SOIL EVALUATION

JOB: Korean Bible Pres Church PHONE:_____ DATE:_____

LOCATION:_____ PIN:_____ COUNTY:_____ PROPERTY SIZE:_____

PROPOSED FACILITY:_____ WATER SUPPLY: On-Site Well__ Community__ Public__ EVALUATION: Auger Boring__ Pit__ Cut_____

WEATHER: _____ ANTECEDENT MOISTURE:_____ SURFACE WATER: _____

FACTORS	PROFILE 7	PROFILE 8	PROFILE 9	PROFILE 10
LANDSCAPE POSITION				
HORIZON I DEPTH	0-10	0-10	0-8	0-12
Color - Munsell	bn	H bn	li Br	pale brn →
Texture	sl	sl	sl	pale sl c
Structure	gr	gr	g	fi l
Consistence	fr	fr	fri	
Boundary				
HORIZON II DEPTH	10-36	10-17	8-20	12-19
Color - Munsell	rd	red/brn	red/yel	li bn
Texture	c	sicl	cl	sl
Mottles	c yel lo	few/com	few red	m
Structure	m f ABK	fm SBK/GR	m f AB	fri
Consistence	fi sl c		fri ss sp	
Boundary				
HORIZON III DEPTH	36-51	17-40	20-40	19-48
Color - Munsell	yel/rd	rd	red	rd
Texture	cl	c	c	c
Mottles	few/com	c/f yel lo	few yel Pa	f yel lo
Structure	m f SAB	m f AB	m f AB	m f ab
Consistence	fm SS/SP	fi s/p	fri ss sp	fi f ss/s
Boundary				
HORIZON IV DEPTH		40-60	40-60	48-58
Color - Munsell		yel/rd	yel or	red/rd
Texture		cl	cl	c
Mottles		few/com	few yel Pa	few/com
Structure		m f SAB	m f SAB	w sbk
Consistence		fri SS/SP	fri ss sp	fm ss/sp
				58-78
Boundary				pale rd
SOIL WETNESS				sl-l sc
RESTRICTIVE HORIZON				m-w sbk
SAPROLITE				fm ss/sp
LTAR	.3	.3	.3	.3
CLASSIFICATION	PS	PS	PS	PS

LEGEND

LANDSCAPE POSITION
R - Ridge Interfluve
S - Shoulder
L - Linear slope
S - Foot slope
N - Nose slope
H - Head slope
Cc - Concave slope
Cv - Convex slope
T - Terrace
P - Flood Plain

TEXTURE
s - sand
ls - loamy sand
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l - loam
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sil - silt loam
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cl - clay loam
scl - sandy clay loam
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c - clay

CONSISTENCE
MOIST / WET
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STRUCTURE
sg - single grain
m - massive
cr - crumb
gr - granular
sab - subangular blocky
ab - angular blocky
pl - platy
pr - prismatic

TCJ CONSULTING

SITE / SOIL EVALUATION

JOB:_____ PHONE:_____ DATE:_____

LOCATION:_____ PIN:_____ COUNTY:_____ PROPERTY SIZE:_____

PROPOSED FACILITY:_____ WATER SUPPLY: On-Site Well__ Community__ Public__ EVALUATION: Auger Boring__ Pit__ Cut_____

WEATHER: _____ ANTECEDENT MOISTURE:_____ SURFACE WATER: _____

FACTORS	PROFILE 11	PROFILE 12	PROFILE	PROFILE
LANDSCAPE POSITION-R		by Hollow		
HORIZON I DEPTH	0-12	0-8		
Color - Munsell	10yr	10yr		
Texture	sl	sl		
Structure	sg	gr		
Consistence	fr	fr		
Boundary				
HORIZON II DEPTH	12-39	8-36		
Color - Munsell	10yr	10yr		
Texture	c	c		
Mottles	f 7.5yr 5/8	f 7.5yr 5/8		
Structure	m sbk	m sbk		
Consistence	fi sl p	fi sl p		
Boundary				
HORIZON III DEPTH	39-42			
Color - Munsell	10yr 4/1			
Texture	c			
Mottles	f 7.5yr 5/8			
Structure	m sbk			
Consistence	fi sl p			
Boundary	1½' black			
HORIZON IV DEPTH				
Color - Munsell	weathered			
Texture				
Mottles	rock			
Structure				
Consistence				
Boundary				
SOIL WETNESS				
RESTRICTIVE HORIZON				
SAPROLITE				
LTAR	1	3		
CLASSIFICATION	PS	PS		

1,667 Cum
12 Sq Ins

LEGEND

LANDSCAPE POSITION
R - Ridge Interfluve
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S - Foot slope
N - Nose slope
H - Head slope
Cc - Concave slope
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sl - sandy loam
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sil - silt loam
sicl - silty clay loam
cl - clay loam
scl - sandy clay loam
sc - sandy clay
sic - silty clay
c - clay

CONSISTENCE
Moist / Wet
WET
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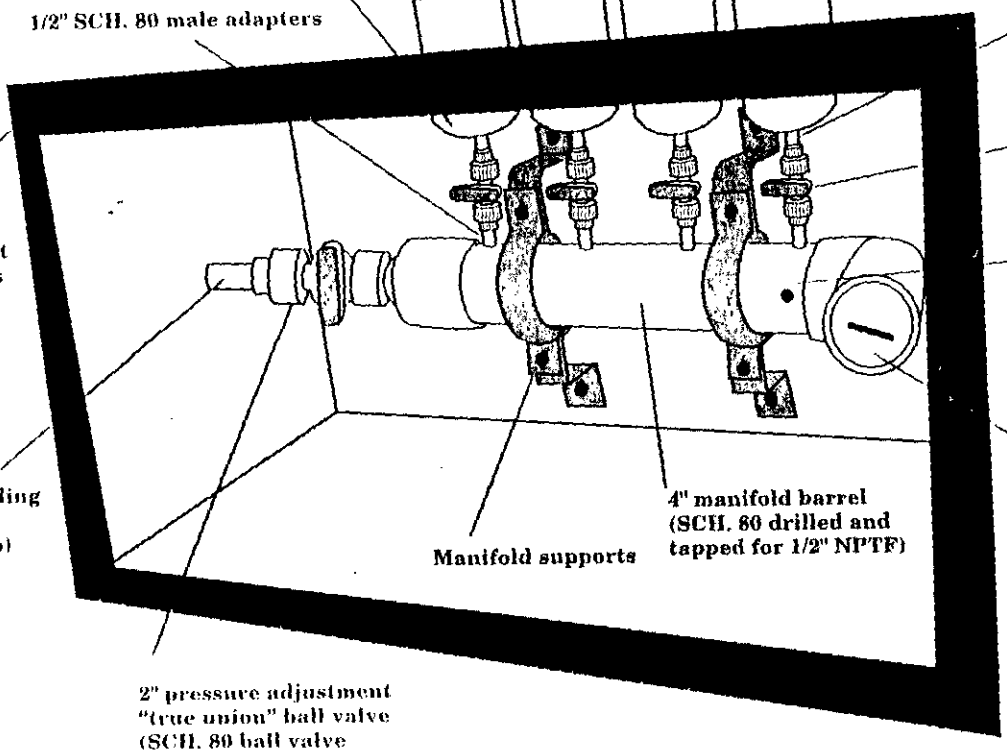
STRUCTURE
sg - single grain
m - massive
cr - crumb
gr - granular
sab - subangular blocky
ab - angular blocky
pl - platy
pr - prismatic

pressbox
Pressure Manifold

Be in the winner's circle!

- Compact and lightweight fiberglass unit - 22" x 24" x 46" Weight_____
- Built to commercial standards for long-term life and quality performance
- Uniquely designed Floating Barrel eliminates stress points leading to cracked fittings, leaks and pressure losses
- Adjustable 1/2" SCH. 80 pressure discharges
- Install 1-8 drainlines with total flow control (Up to 16 drainlines may be installed using splitter tees)
- No assembly required
- Custom units available upon special order

" Note this is what box will look like but only has 4 taps



PressBox QUATRO UNIT

- 4 Taps with SCH. 80 fittings, valves and 1/2" pressure discharges
- 4 Expansion ports drilled, tapped and plugged (expansion kits complete with fittings, valves and discharge hook-ups sold separately)
- 4" Cleanout
- 4" SCH. 80 barrel
- 2" SCH. 80 pressure adjustment valve
- 3" Discharge hook-ups

PressBox QUATRO X2 UNIT

- QUATRO UNIT features plus an added 8 taps with fittings, valves and discharge hook-ups

TRI-COUNTY WASTEWATER

Telephone: 1.800.448.1298

Be in the winner's circle!

North Carolina
Department of Natural Resources and Community Development
Division of Environmental Management

P. O. Box 27687 - Raleigh, N. C. 27611

WELL ABANDONMENT RECORD

CONTRACTOR _____ REG. NO. _____

1. WELL LOCATION: (Show a sketch of the location on back of form.)

Nearest Town: _____ County _____

_____ Quadrangle No. _____
(Road, Community, Subdivision, Lot No.)

2. OWNER: _____

3. ADDRESS: _____

4. TOPOGRAPHY: draw, slope, hilltop, valley, flat

5. USE OF WELL: _____ DATE: _____

6. TOTAL DEPTH: _____ DIAMETER: _____

7. CASING REMOVED:

feet	diameter

8. SEALING MATERIAL:

Neat cement	Sand cement
bags of cement ____	bags of cement ____
gals. of water ____	yds. of sand ____
	gals. of water ____

Other
Type material _____
Amount _____

9. EXPLAIN METHOD OF EMPLACEMENT OF MATERIAL

_____

_____

_____

_____

I do hereby certify that this well abandonment record is true and exact.

_____
Signature of Contractor or Agent Date

WELL DIAGRAM: Draw a detailed sketch of the well showing total depth, depth and diameter of screens remaining in the well, gravel interval, intervals of casing perforations, and depths and types of fill materials used.

Submit original to the Division of Environmental Management, one copy to the Driller, and one copy to the Owner.

DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION

#2 4th Indiv. Site

Sheet: 1
Property ID: PO 223-241-01
Lot #:
File #: 28963

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Korean Bible Presbyterian Church APPLICANT:
ADDRESS: 1825 East Seventh St., Charlotte DATE EVALUATED: 4-8-99
PROPOSED FACILITY: Church PROPOSED DESIGN FLOW (.1949) 1500gpd PROPERTY SIZE:
LOCATION OF SITE: 17200 Carolina Academy Road PROPERTY RECORDED:
WATER SUPPLY: ☐Private ☑Public ☐Well ☐Spring ☐Other
EVALUATION METHOD: ☐Augur Boring ☒Pit ☐Cut
TYPE OF WASTEWATER: ☒Sewage ☐Industrial Process ☐Mixed

PROFILE #	5-12% .1940 Landscape Position/ Slope %	Horizon Depth (IN.)	SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE	SOIL MORPHOLOGY (.1941) .1941 CONSISTENCE MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	OTHER PROFILE FACTORS .1943 SOIL DEPTH	OTHER PROFILE FACTORS .1956 SAPRO CLASS	OTHER PROFILE FACTORS .1944 RESTR HORIZ	PROFILE CLASS &LTAR
1	LS	0-9"	gr/ sl	Fr/SEXP/~~SS~~ NS/~~SP~~ NP	>50" TO soil wetness	50"	N/A	None	US IV
		9-12"	SBK/ scl	Fr/SEXP/S/P					
		12-20"	SBK/ sc	Fi/SEXP/S/P					
		20-34"	Pl / sc	Fi/SEXP/S/P					
		34-50"	WSBK/C	Fi/SEXP/S/P					
2	LS	0-14"	gr/ sl	Fr/SEXP/NS/NP	>50" TO soil wetness	50"	~~N/A~~ US	None	US IV
		14-21"	SBK/sc	Fi/SEXP/S/P					
		21-43"	Pl /sc	Fi/SEXP/S/P					
		43-50"	M/scl	Fr/SEXP/SS/SP					
3	LS	0-12"	gr/ s l	Fr/SEXP/NS/NP	>48" To soil wetness	48"	N/A	None	US IV
		12-19"	SBK/sc	Fi/SEXP/S/P					
		19-39"	SBK Pl/ sc	Fi/SEXP/S/P					
		39-48"	SBK/C	Fi/SEXP/S/P					
4	LS	0-12"	gr/ sl	Fr/SEXP/NS/NP	>56" TO soil wetness	56"	N/A	None	US IV
		12-25"	SBK/ sc	Fi/SEXP/S/P					
		25-42"	SBK Pl/ C	Fi/SEXP/S/P					
		42-56"	M/ sc	Fi/SEXP/S/P					
5	LS	0-18"	gr/sl	Fr/SEXP/NS/NP	>56" TO soil wetness	56"	US	None	US IV
		18-24"	SBK/sc	Fi/SEXP/S/P					
		24-32"	Pl /C	Fi/SEXP/S/P					
		32-56"	M/sc	Fi/SEXP/S/P					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)		
System Type(s)		
Site LTAR		

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948): Unsuitable
EVALUATED BY: W.A Marlin, LSS · 4-8-99
OTHER(S) PRESENT:

DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION

Sheet: 2
Property ID:
Lot #:
File #: 2896B

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: APPLICANT:
ADDRESS: DATE EVALUATED:
PROPOSED FACILITY: PROPOSED DESIGN FLOW (.1949) PROPERTY SIZE:
LOCATION OF SITE: PROPERTY RECORDED:
WATER SUPPLY: ☐Private ☐Public ☐Well ☐Spring ☐Other
EVALUATION METHOD: ☐Augur Boring ☐Pit ☐Cut
TYPE OF WASTEWATER: ☐Sewage ☐Industrial Process ☐Mixed

PROFILE #	.1940 Landscape Position/ Slope %	Horizon Depth (IN.)	SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE	SOIL MORPHOLOGY (.1941) .1941 CONSISTENCE MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	OTHER PROFILE FACTORS .1943 SOIL DEPTH	OTHER PROFILE FACTORS .1956 SAPRO CLASS	OTHER PROFILE FACTORS .1944 RESTR HORIZ	PROFILE CLASS &LTAR
6	LS	0-12"	gr/ sl	Fv/ SEXP/ NS/NP	>50" To Soil wetness	50"	N/A	None	US IV
		12-18"	SBK/sl	Fv-Fi/ SEXP/ SS/SP					
		18-26"	SBK/ C	Fi/ SEXP/ S/P					
		26-36"	SBK/ C	Fi/ SEXP/ S/P					
		36-50"	SBK/C	Fi/ SEXP/ S/P					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)		
System Type(s)		
Site LTAR		

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948):
EVALUATED BY:
OTHER(S) PRESENT:

FILE # 2896B

COMMENTS

LANDSCAPE POSITION	GROUP	TEXTURE	.1955 LTAR
R-RIDGE	I	S-SAND	1.2-0.8
S-SHOULDER SLOPE		LS-LOAMY SAND	
L-LINEAR SLOPE			
FS-FOOT SLOPE	II	SL-SANDY LOAM	0.8-0.6
N-NOSE SLOPE		L-LOAM	
H-HEAD SLOPE			
CC-CONCLAVE SLOPE	III	SI-SILT	0.6-0.3
CV-CONVEX SLOPE		SICL-SILTY CLAY LOAM	
T-TERRACE		CL-CLAY LOAM	
FP-FLOOD PLAIN		SCL-SANDY CLAY LOAM	
	IV	SC-SANDY CLAY	0.4-0.1
		SIC-SILTY CLAY	
		O-ORGANIC	

CONSISTENCE MOIST	WET
VFR-VERY FRIABLE	NS-NON-STICKY
FR-FRIABLE	SS-SLIGHTLYSTICKY
FI-FIRM	S-STICKY
VFI-VERY FIRM	VS-VERY STICKY
EFI-EXTREMELY FIRM	NP-NON-PLASTIC
	SP-SLIGHTLYSTICKY
	P-PLASTIC
	VP-VERY PLASTIC

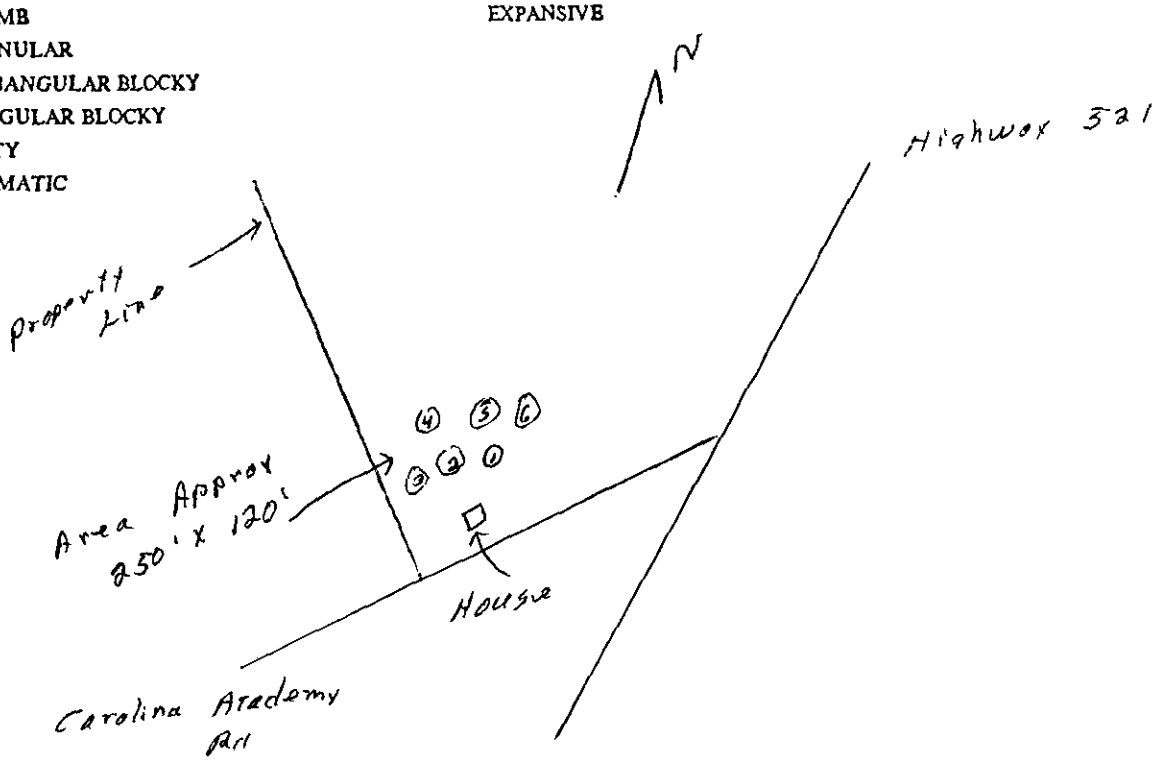
STRUCTURE

SG-SINGLE GRAIN
M-MASSIVE
CR-CRUMB
GR-GRANULAR
SBK-SUBANGULAR BLOCKY
ABK-ANGULAR BLOCKY
PL-PLATY
PR-PRISMATIC

MINERALOGY

SLIGHTLY EXPANSIVE

EXPANSIVE



DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION

400
#2

Sheet:
Property ID: PO 223-041-01
Lot #:
File #: 2696B

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Korean Bible Presbyterian Church APPLICANT:
ADDRESS: 1605 East Seventh St, Charlotte, N.C. DATE EVALUATED: 4-5-99
PROPOSED FACILITY: Church PROPOSED DESIGN FLOW (.1949) 150 gpd PROPERTY SIZE: Approx 1.4 ac
LOCATION OF SITE: 17200 Catawba Academy Road PROPERTY RECORDED:
WATER SUPPLY: ☐Private ☑Public ☐Well ☐Spring ☐Other
EVALUATION METHOD: ☑Augur Boring ☐Pit ☐Cut
TYPE OF WASTEWATER: ☑Sewage ☐Industrial Process ☐Mixed

PROFILE #	6-12" .1940 Landscape Position/ Slope %	Horizon Depth (IN.)	SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE	SOIL MORPHOLOGY (.1941) .1941 CONSISTENCE MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	OTHER PROFILE FACTORS .1943 SOIL DEPTH	OTHER PROFILE FACTORS .1956 SAPRO CLASS	OTHER PROFILE FACTORS .1944 RESTR HORIZ	PROFILE CLASS &LTAR
1	LS	0-9"	gr/sl	Fr/SExPl/NS/NP	>21" TO soil wetness	21"	N/A	None	US IV
		9-21"	sBK/sc	F:/SExPl/SP					
2	LS	0-7"	gr/sl	Fr/SExPl/NS/NP	>45" TO soil wetness	45"	N/A	None	PS IV .25g/ft²
		7-45"	sBK/sc	F:/SExPl/SP					
3	LS	0-15"	gr/sl	Fr/SExPl/NS/NP	>43" TO soil wetness	43"	N/A	None	PS .25g/ft² IV
		15-43"	sBK/sc	F:/SExPl/SP					
4	LS	0-7"	gr/sl	Fr/SExPl/NS/NP	>43" TO soil wetness	43"	N/A	None	US IV
		7-43"	sBK/c	F:/SExPl/SP					
			platy structure	@ 27"					
5	LS	0-10"	gr/sl	Fr/SExPl/NS/NP	>43" TO soil wetness	43"	N/A	None	US IV
		10-43"	sBK/sc	F:/SExPl/SP					
			platy structure	@ 31"					
6	LS	0-11"	gr/sl	Fr/SExPl/NS/NP	>48" TO soil wetness	48"	N/A	None	US IV
		11-48"	sBK/c	F:/SExPl/SP					
			platy @ 25"						
7	LS	0-12"	gr/sl	Fr/SExPl/NS/NP	>42" TO soil wetness	42"	N/A	None	US IV
		12-42"	sBK/sc	F:/SExPl/SP					
			platy structure	@ 31"					
8	LS	0-12"	gr/sl	Fr/SExPl/NS/NP	>35" TO soil wetness	35"	N/A	None	US IV
		12-35"	sBK/sc	F:/SExPl/SP					
			platy structure	@ 26"					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	US	US
System Type(s)		
Site LTAR		

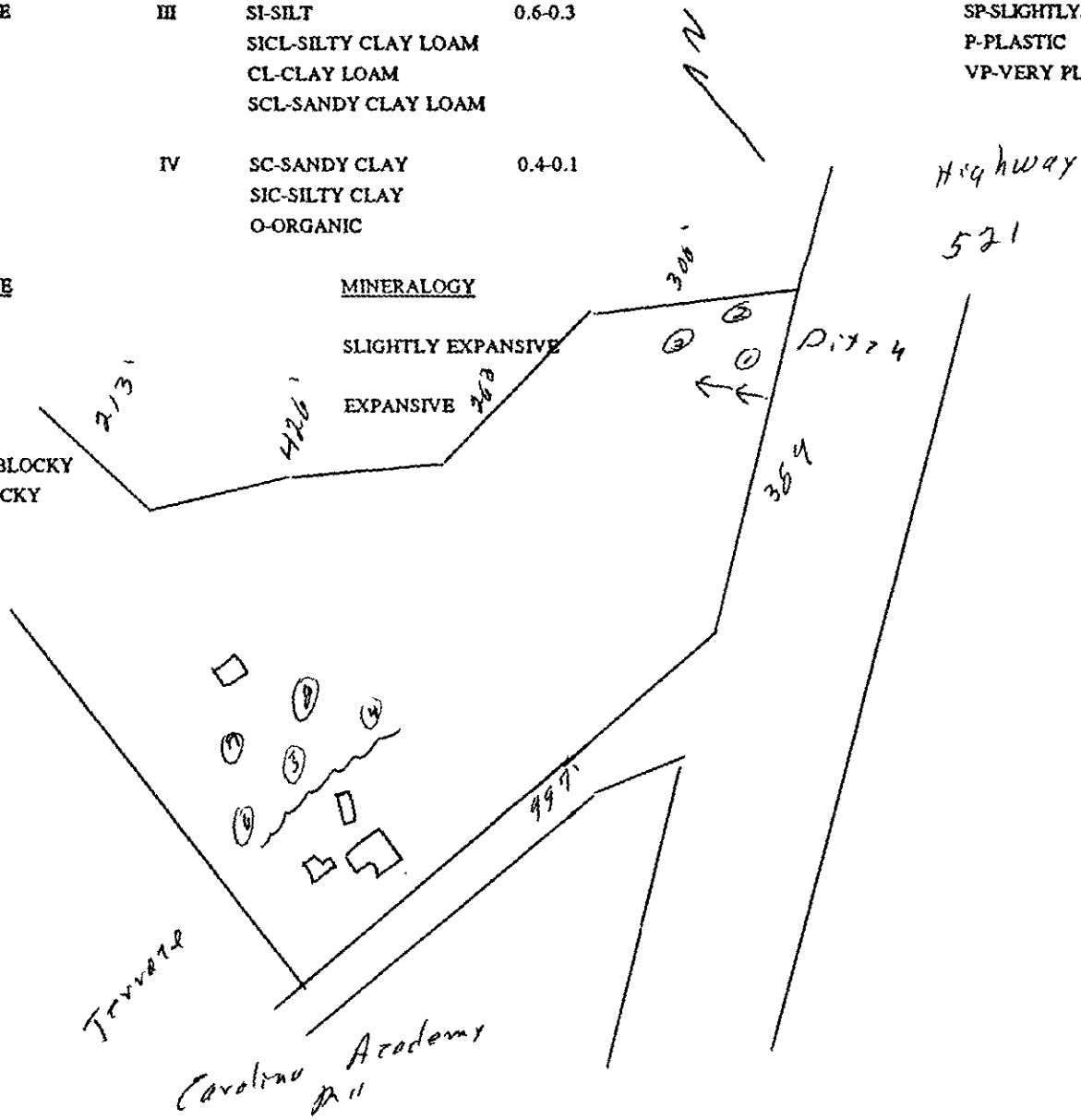
OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948): Unacceptable
EVALUATED BY: W. R. Marlin 4-6-99
OTHER(S) PRESENT: LSS

FILE # 2696 B

COMMENTS 100 Percent Legal

LANDSCAPE POSITION	GROUP	TEXTURE	.1955 LTAR	CONSISTENCE MOIST	CONSISTENCE WET
R-RIDGE	I	S-SAND	1.2-0.8		
S-SHOULDER SLOPE		LS-LOAMY SAND		VFR-VERY FRIABLE	NS-NON-STICKY
L-LINEAR SLOPE				FR-FRIABLE	SS-SLIGHTLYSTICKY
FS-FOOT SLOPE	II	SL-SANDY LOAM	0.8-0.6	FI-FIRM	S-STICKY
N-NOSE SLOPE		L-LOAM		VFI-VERY FIRM	VS-VERY STICKY
H-HEAD SLOPE				EFI-EXTREMELY FIRM	NP-NON-PLASTIC
CC-CONCLAVE SLOPE	III	SI-SILT	0.6-0.3		SP-SLIGHTLYSTICKY
CV-CONVEX SLOPE		SICL-SILTY CLAY LOAM			P-PLASTIC
T-TERRACE		CL-CLAY LOAM			VP-VERY PLASTIC
FP-FLOOD PLAIN		SCL-SANDY CLAY LOAM			
	IV	SC-SANDY CLAY	0.4-0.1		
		SIC-SILTY CLAY			
		O-ORGANIC			

STRUCTURE	MINERALOGY
SG-SINGLE GRAIN	SLIGHTLY EXPANSIVE
M-MASSIVE	
CR-CRUMB	EXPANSIVE
GR-GRANULAR	
SBK-SUBANGULAR BLOCKY	
ABK-ANGULAR BLOCKY	
PL-PLATY	
PR-PRISMATIC	



CITY OF CHARLOTTE
CHARLOTTE-MECKLENBURG UTILITY DEPARTMENT
INTER-OFFICE COMMUNICATION

DATE: 8-19-99

TO: Chief Accountant
Disbursements Section

FROM: Douglas Bean, Director
Charlotte-Mecklenburg Utility Department

SUBJECT: REQUEST FOR REFUND

Please issue a check in the amount of $ 2575.00 payable to
Love Plbging & Air Conditioning P.O. Box 1249
Monroe NC 28111

Record the following information on the voucher:

1. Job-Location: 17200 Carolina Academy Rd
2. Application Number 68175
3. Amount of Customer Deposit $ 2575.00
4. Cost of Job $ -0-
5. Charge to Account Cost of Tap - (water/sewer) - 7101-5735-715 1400.00 → 4" sewer
Cost of Capacity fees - (water/sewer) - 7101-5735-715 1175.00 → Capacity fee based on 1" water connection
6. Reason for Refund: Customer cancelled request on septic tank

Ck. #:

Date:

Date Mailed:

**Return check to: UTILITY ADMINISTRATION, 5100 BROOKSHIRE BLVD.
Attn: Yvonne Miller