

Environmental Services - Water Quality  
Onsite Wastewater Scan Data Entry Form

PERMIT #: D039293

PIN #: 1709953993

OP DATE: 0113112012

SYSTEM USE:

- ☒ House  
☐ Mobile Home  
☐ Business  
☐ Other

SEWAGE TYPE:

- ☒ Domestic  
☐ Industrial

PUMP/SIPHON?:

- ☒ Yes  
☐ No

PRESSURE MANIFOLD:

- ☒ Yes  
☐ No

SYSTEM TYPE:

- ☐ I  
☐ II  
☒ III  
☐ IV  
☐ V  
☐ VI  
☐ Other

SUB TYPE:

- ☐ A  
☐ B  
☐ C  
☐ D  
☐ E  
☐ F  
☒ G

NBR BEDROOMS:

- ☐ 1  
☐ 2  
☐ 3  
☐ 4  
☒ 5  
☐ 6  
☐ Other

MAINT. SCHEDULE:

- ☐ Yes  
☒ No

CERT. OPERATOR

- ☐ Yes  
☒ No

GT ST PT SIZE

- |                                     |                                     |                                     |                  |
|-------------------------------------|-------------------------------------|-------------------------------------|------------------|
| <input type="checkbox"/>            | <input type="checkbox"/>            |                                     | 750              |
| <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | 900              |
| <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | 1,000            |
| <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | 1,200            |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 1,500            |
| <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | 1,800            |
| <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | 2,100            |
| <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | 2,500            |
| <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | 3,000            |
| <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | 4,000            |
| <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | 5,000            |
| <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | 8,000            |
| <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | 10,000           |
| <input checked="" type="checkbox"/> |                                     | <input type="checkbox"/>            | Other            |
|                                     |                                     | <input type="checkbox"/>            | None/NA GT or PT |

DRAINFIELD SIZE(SQ. FT.)

01506

DRAIN TYPE:

- ☐ Stone  
☒ EZ Flow  
☐ Infiltrator  
☐ Biodiffuser  
☐ Cultec  
☐ Drip  
☐ Hancor  
☐ Large Dia. Pipe  
☐ Multi-Pipe  
☐ Other

MAX DEPTH (IN.):

- ☐ 12 in. or less  
☐ 18 in. or less  
☐ 24 in. or less  
☐ 26 in. or less  
☐ 28 in. or less  
☒ 30 in. or less  
☐ 32 in. or less  
☐ 36 in. or less  
☐ Other

STONE DEPTH (IN.):

- ☐ 8 in. or less  
☒ 12 in. or less  
☐ 18 in. or less  
☐ 24 in. or less  
☐ Other

TRENCHES:

- ☒ Individual  
☐ Bed

TRENCH WIDTH (IN.):

- ☐ 12 in. or less  
☐ 18 in.  
☐ 24 in.  
☒ 36 in.  
☐ 6 ft. or less  
☐ 9 ft. or less  
☐ Other

10/20  
AW

**WAKE COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES WELL AND SEWAGE SITE LOCATION PERMIT**

NO PERMIT(S) FOR CONSTRUCTION, LOCATION OR RELOCATION ACTIVITY SHALL BE ISSUED  
UNTIL AN AUTHORIZATION FOR WASTEWATER SYSTEM CONSTRUCTION HAS BEEN ISSUED

**\*PERMIT VOID IF NOT IN COMPLIANCE WITH ZONING REGULATIONS AND/ OR IF SITE IS ALTERED OR INTENDED USE CHANGED\***

PERMIT#: **D039293** STATUS: **A** APP. DATE: **02/23/2007** BLDG. PERMIT#: **0072808**  
PIN: **1709.02 95 1464-000 3993** TAX MAP:  
TOWNSHIP: **02 BARTON'S CREEK** JURISDICTION: **WC** RECORDED: **Y** ORIG. PERMIT#:   
ZONING: **R40W**  
APPLICANT: **RICHARD GREYTHORN HOMES**  
**3716 NATIONAL DRIVE STE 200**  
**RALEIGH, NC 27614**  
**(919) 783 - 5777**  
USE: **HD USE: 101 ONE-FAMILY HOUSE**  
**EXIST USE:**  
**DISPOSAL: BEDROOMS: 5 BASEMENT: N #EMPLOYEES: 0**  
SITE: **ADDRESS: 2105 CADENZA LN**  
**SUBDIVISION: ROSE HALL LOT: 31 ACRES: 0.92**  
DIRECTION: **6FORKS RD NORTH TR HONEY CUT TR INTO S/D**

**Well System: WATER: COMMUNITY - TYPE: EXISTING**

WELL LOG INFORMATION: DEPTH:        CASING DEPTH:        YIELD:        STATIC LEVEL:         
WELL CONTRACTOR:        REG.#        PUMP CONTRACTOR:        REG.#         
**Construction Compliance** GROUT APPROVED ☐ DATE        EHS         
WELLHEAD APPROVED ☐ DATE        EHS         
SYSTEM FINALIZED ☐ DATE        EHS       

COMMENTS:       

**Operation Permit**

DESIGN FLOW: **51.99 gal./min.** ACTUAL FLOW:        INNOVATIVE LETTER: **R**

INSTALLED BY: Glenn Todd  
PROPRIETARY SYSTEM: E2Flow  
COMMENTS:       

INSTALLATION APPROVED BY: [Signature]  
FILTER NO: TUPH16

OPERATIONS PERMIT ISSUED? ☒

OP DATE: 11/31/12

BY: [Signature]

This permit is based in part on information provided by the homeowner or his/her representative in the application submitted for this permit. The Environmental Health Specialist is not responsible for false or misleading information contained in the application. The Environmental Health Specialist is also not responsible for concealed conditions on the property or for statements in this report that may have resulted from false or misleading statements provided to him in the application. Neither Wake County nor the Environmental Health Specialist warrants that the septic tank system will continue to function satisfactorily in the future or that the water supply will remain potable.

**As Built Information:**

Date: 3/4/08 Benchmark: P.T. Riser Rod reading: 3.5' Distance to Structure:         
ST: MILLS 1500 gals ID#: STB 856 D.O.M.: 2-22-08 Elev.:        Distance to Well:         
PT: MILLS 1500 gals ID#: PT 220 D.O.M.: 8-24-07 Elev.: 4.6'  
D-box/FD/PM Elev.: 3.3' Supply Line: 57 ft. Pump/Control Panel:         
Line 1: 6.7' 6.7' 6.7' 6.6' Date: 3/4 Line 6: 8.75' 8.75' 8.75' Date: 3/4  
Line 2: 7.2' 7.2' 7.3' 7.35' Date:        Line 7:                      Date:         
Line 3: 7.55' 7.6' 7.6' 7.6' Date:        Line 8:                      Date:         
Line 4: 8.1' 8.1' 8.1' 8.1' Date:        Line 9:                      Date:         
Line 5: 8.7' 8.7' 8.7' 8.7' Date:        Line 10:                      Date:         
Distance to P/L:        Notes:       

-check taps, risers + filter @ pump final  
3/4/08. scb

EScopy

WAKE COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES WELL AND SEWAGE SITE LOCATION PERMIT  
NO PERMIT(S) FOR CONSTRUCTION, LOCATION OR RELOCATION ACTIVITY SHALL BE ISSUED  
UNTIL AN AUTHORIZATION FOR WASTEWATER SYSTEM CONSTRUCTION HAS BEEN ISSUED

\*PERMIT VOID IF NOT IN COMPLIANCE WITH ZONING REGULATIONS AND/ OR IF SITE IS ALTERED OR INTENDED USE CHANGED\*

PERMIT#: D039293 STATUS: A APP. DATE: 02/23/2007 BLDG. PERMIT#: 0072808  
PIN: 1709.02 95 4464-000 3993 TAX MAP: RECORDED: Y ORIG. PERMIT#:   
TOWNSHIP: 02 BARTON'S CREEK JURISDICTION: WC ZONING: R40W  
APPLICANT: RICHARD GREYTHORN HOMES  
3716 NATIONAL DRIVE STE 200  
RALEIGH, NC 27614  
(919) 783 - 5777  
USE: HD USE: 101 ONE-FAMILY HOUSE  
EXIST USE:   
DISPOSAL: BEDROOMS: 5 BASEMENT: N #EMPLOYEES: 0 FOUND DRAIN: P  
SITE: ADDRESS: 2105 CADENZA LN  
SUBDIVISION: ROSE HALL LOT: 31 ACRES: 0.92  
DIRECTION: 6FORKS RD NORTH TR HONEY CUT TR INTO S/D

IMPROVEMENT PERMIT

TANK SIZE: 1500 gal. PUMP Tank: 1500 gal. SQ FT: 1506 INNOVATIVE MAX DEPTH LINE: 30 in.  
WASTEWATER: INDIVIDUAL SEWAGE: DOMESTIC TYPE SYSTEM: III G PUMP: Y P/M: Y  
DAILY FLOW: 600 gal/day DESIGN FEE REQ?: Y PAID?: Y WATER: COMMUNITY

COMMENTS: NO FOUNDATION DRAIN ON THE FRONT LEFT CORNER OF THE HOUSE.

IP ISSUED? Y DATE: 04/26/2007 BY: (CHH) *Christine H. Hays* PHONE#: 868-2564

AUTHORIZATION FOR WASTEWATER/WATER SYSTEM CONSTRUCTION  
VOID SIXTY (60) MONTHS FROM DATE OF ISSUANCE

AUTHORIZATION CONDITIONS:

Contractors shall install system on contours, see attached site plan for wastewater system design and well location. No underground utilities, water lines or sprinkler systems may be located in the original system or repair areas. A septic tank filter with a riser for access is required. The wastewater system shall not be covered or placed into use until inspected by the Wake County Department of Environmental Services and an Operation Permit issued. An Accepted Status System may be used in place of conventional system, if it can be placed in the permitted/authorized trench footprint (except reduction in line length and/or number as allowed for in approval) and the installation is in accordance with the accepted system approval, without unauthorized product alteration. If permit required use of an Accepted Status System, substitution with another accepted status system may be made, as long as no changes are necessary in the location of each nitrification line (including any increase in line length), trench depth or effluent distribution method. If changes are necessary, prior approval by this office is required before system installation. **OTHER CONDITIONS:**

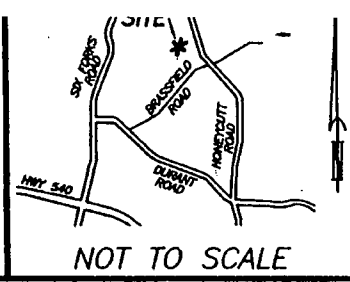
ACCEPTED STATUS SYSTEM REDUCTION HAS BEEN TAKEN FOR THE DESIGN OF INITIAL AND REPAIR SYSTEM. PLEASE SEE DESIGN PLAN BY MITCHELL ENVIRON (APPROVED 05-03-07 BY BSM) FOR INSTALLATION INFO. INITIAL SYSTEM IS A VARIED LENGTH LINE PRESSURE MANIFOLD WITH 30 INCH TRENCH BOTTOMS. WHEN INSTALLING DRAINLINES, PLEASE MAINTAIN ALL REQUIRED SETBACKS. REPAIR SYSTEM IS A DUAL FIELD VARIED LENGTH LINE PRESS MANIFOLD, 30" TRENCH BOTTOMS. WHEN CLEARING AREA FOR INITIAL SYSTEM, DO NOT DISTURB OR REMOVE ANY SOIL FROM EITHER THE INITIAL OR REPAIR AREA. A NEMA4X CONTROL PANEL WITH TWO BREAKERS, TWO POWER SUPPLIES, ELAPSED TIME METER, AND CYCLE COUNTER IS REQUIRED. INSTALL TRENCHES ON CONTOUR AND > OR = 9FT ON CENTER. DESIGNER HAS A TRU FLOW SPLITTER FOR THE INITIAL AND REPAIR SYSTEM. SEE TAP C HART FOR MORE DETAILS. MUST HAVE WRITTEN APPROVAL AND APPROVED DESIGN FROM CONSULTANT TO CHANGE ANY PART OF DESIGN. HOUSE WILL HAVE NO FOUNDATION DRAIN ON THE LOWER LEFT SIDE OF HOUSE PER APPLICANT'S LETTER AND CONSULTANT'S DESIGN. IF ONE IS INSTALLED, PERMIT WILL BE VOID.

TANK SIZE: 1500 gal. PUMP TANK: 1500 gal. SQ FT: 1506 INNOVATIVE MAX DEPTH LINE: 30 in.  
MAINT: N OPER: N L/O: P TRENCH#: 6 LENGTH: 502 ft. WIDTH: 36 in. DESIGNER: MITCHELL ENV.  
# SUBFIELDS: 1 DESIGN HEAD PRESSURE: 2 DESIGN FLOW: 81.99 gal/min DOSE VOLUME: 261 gal.

CA ISSUED? Y DATE: 05/04/2007 BY: (BSM) *David H. Maud* PHONE#: 856-7463

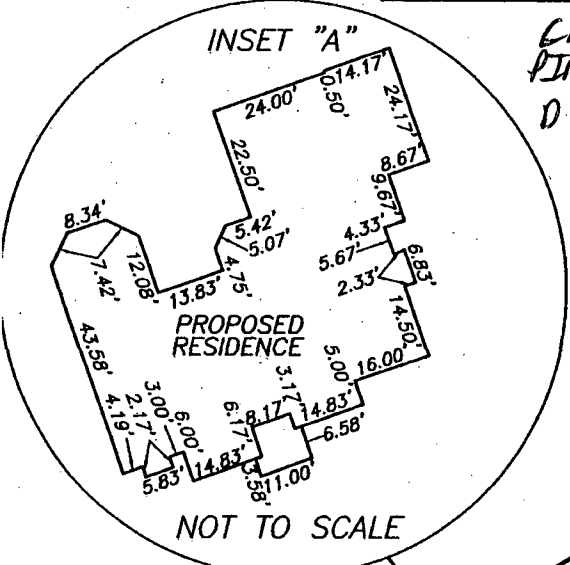
Comments: Women Circular

A ( ) THE PROPERTY IS NOT LOCATED IN A COMMUNITY PARTICIPATING IN THE NATIONAL FLOOD INSURANCE PROGRAM AS OF THIS DATE.  
B (X) THE PROPERTY IS NOT LOCATED IN THE 100 YEAR FLOOD HAZARD AREA PER F.I.R.M. MAP NO. 3720170900 J, EFFECTIVE DATE MAY 2, 2006.  
C ( ) A PORTION OF THIS PROPERTY IS LOCATED WITHIN A 100 YEAR FLOOD FRINGE AREA AS SHOWN BELOW.



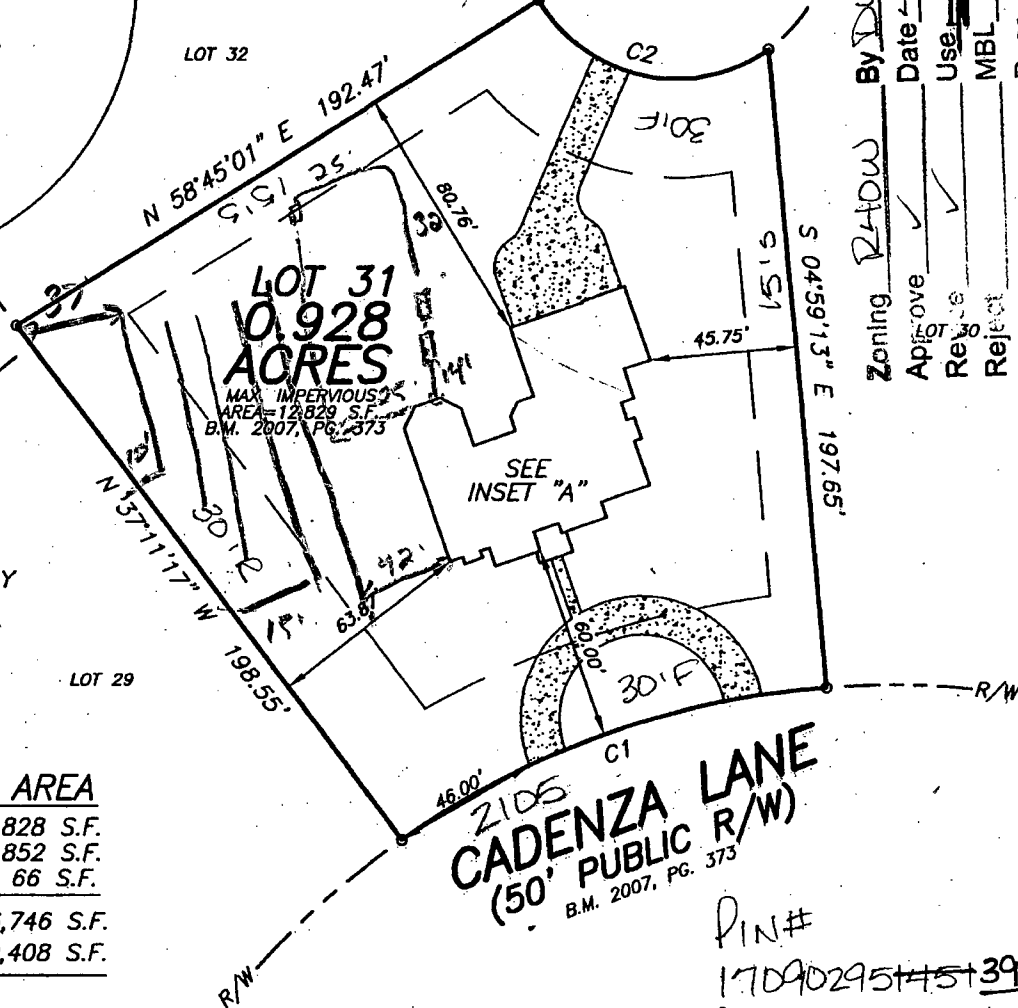
\*REVISED\*  
FTTN: CHRIS HAYES

| CURVE TABLE |           |         |         |         |         |               |
|-------------|-----------|---------|---------|---------|---------|---------------|
| CURVE#      | DELTA     | RADIUS  | ARC     | CHORD   | TANGENT | CHORD BEARING |
| C1          | 29°42'28" | 275.00' | 142.59' | 141.00' | 72.94'  | S 70°53'18" W |
| C2          | 93°51'42" | 50.00'  | 81.91'  | 73.05'  | 53.48'  | S 78°10'49" E |



LA 514 Plan Part A  
PIN# 1709.02951451  
D 39293  
Rose Hall lot 31  
**MOONSPRITE WAY**  
(45' PUBLIC R/W)  
B.M. 2007, PG. 373

# See LA 514 Plan Part B  
H & Design Plan (Approved)  
12-3-07 by BSM for  
additional info.



**LEGEND**  
(IPF) IRON PIPE FOUND  
(IPS) IRON PIPE SET  
(R/W) RIGHT OF WAY  
(C) CENTERLINE OF RIGHT OF WAY

| SETBACKS |     |
|----------|-----|
| FRONT    | 30' |
| REAR     | 30' |
| SIDE     | 15' |
| CORNER   | 30' |

**PROPOSED IMPERVIOUS AREA**  
HOUSE, GARAGE, PORCH @ 100% 3,828 S.F.  
CONCRETE DRIVEWAY @ 100% 2,852 S.F.  
CONCRETE SIDEWALK @ 100% 66 S.F.  
**TOTAL IMPERVIOUS AREA 6,746 S.F.**  
**TOTAL LOT AREA 40,408 S.F.**

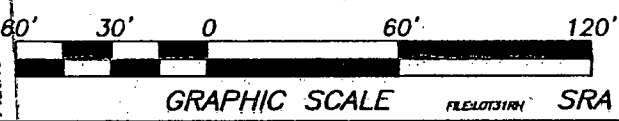
**PERCENTAGE OF IMPERVIOUS AREA = 16.69%**

NOTE:  
1. NOT FOR RECORDATION OR CONVEYANCE OR SALE.

**PRELIMINARY PLAT**  
LOT 31 ROSE HALL  
2105 CADENZA LANE  
RALEIGH, WAKE COUNTY, NC

PROPERTY OF  
**RICHARD GAYLORD HOMES, INC.**

REFERENCE: BOOK OF MAPS 2007, PAGE 373



I, \_\_\_\_\_, CERTIFY THAT THIS MAP IS THE RESULT OF A FIELD SURVEY MADE UNDER MY SUPERVISION, THAT THE ERROR OF CLOSURE IS 1:10,000+ THAT THE BOUNDARIES NOT SURVEYED ARE SHOWN AS BROKEN LINES. WITNESS MY HAND AND SEAL THIS \_\_\_\_\_ DAY OF \_\_\_\_\_ A.D., 20\_\_\_\_.

I certify that the location of planned or existing structure(s) are accurately shown. I understand and failure to locate structures in accordance with this plat plan may require the relocation of structure(s) regarding to degree of completion. I hereby grant permission to Municipal/County Representatives the right of entry to make evaluations or inspections upon this property.

Signature of Owner or Authorized Agent

**WITHERS & RAVENEL**  
**KENNETH CLOSE**  
**SURVEYING**  
111 MACKENAN DRIVE  
CARY, N.C. 27511  
PHONE (919) 851-2344  
FAX (919) 851-5201

DATE: 04-02-07 SCALE: 1" = 60'



ES Copy

**Mitchell Environmental, P.A.**

**SEPTIC SYSTEM DESIGN  
for  
ROSE HALL SUBDIVISION – LOT 31  
WAKE COUNTY, NORTH CAROLINA  
\*\* Revised Per Wake County Review Comments \*\***

**Submitted to:**

Wake County Department of Environmental Services  
Division of On-Site Wastewater  
336 Fayetteville Street  
PO Box 550  
Raleigh, North Carolina 27602

**Prepared for:**

Richard Gaylord Homes, Inc.  
3716 National Drive, Suite 200  
Raleigh, North Carolina 27612

**Prepared by:**

Scott Mitchell, PE, LSS  
Mitchell Environmental, P.A.

☐ APPROVED  
☒ APPROVED AS NOTED  
☐ DISAPPROVED

Review of this document has been made only for conformance with the design concept of the project and approval or approval as noted shall not relieve the designer and/or contractor from responsibility for any errors therein or for furnishing the materials, and equipment of proper dimension, size, quantity, quality and all performance characteristics to meet the requirements and intent of the contract documents.

WAKE COUNTY DEPARTMENT OF  
ENVIRONMENTAL SERVICES

DATE: May 1, 2007  
PROJECT NO.: 2805

Date 5-3-07 By Scott Mitchell

PIN# 1709.95.3993

PO Box 341 Fuquay-Varina, North Carolina 27526  
Office: 919-557-4682 Fax: 919-557-4683 Mobile: 919-669-0329

## PRESSURE MANIFOLD DESIGN

(initial)

Name: Mitchell Environmental, PAP.I.N. #: 1709.95.3993

D#:

Address:

Subdiv: Rose HallLot#: 31-I# of BDR: 5 Daily Flow: 600 gal/day L.T.A.R.: 0.30 gal/day/sq.ftSeptic Tank: 1500 gals Pump Tank: 1500 gals Sq. Foot: 1506 Stone Depth: N/A  
(EZ Flow)Number of Taps: 5 Length of Trenches: Variable ft(See Tap Chart for Details)Depth of Trenches: 30.24 in Manifold Length: 48 inManifold Diameter: 4in sch 80pvc Tap Configuration: 6 in spacing 1 side(s) of manifoldSupply Line: length: 45 ft Diameter: 2 in sch 40pvcFriction Loss + Fitting Loss: 6.64 ft(supply line length + 70' for fittings in pump tank)Design Head: 2 ft Elevation Head: 3.58 ftTotal Head: 12.22 ft Pump to Deliver: 51.99 gals/min at 12.22 ft headDosing Volume: 261.04 gals,Drawdown: 261.04 gals divided by 27.78 gals/in = 9.40 inches

Simplex Control Panel required; elapsed time meter and cycle counter required; Floats to be determined by type of pump tank used. A septic tank filter, or equal is required.

Possible pumps: Hydromatic:

Goulds:

Myers: ME Series

Zoeller:

Other:

## TAP CHART

| Bench Mark      | 10.2   | is = 100.00 | set at    | West Prop Corner | Design Head:                   | 2           |
|-----------------|--------|-------------|-----------|------------------|--------------------------------|-------------|
| Pump tank elev. |        | 3.5         | 106.70    | Pump elev.       | Manifold elev.                 | 105.28      |
| line            | color  | rod read    | Elevation | length           | hole size                      | flow/tap    |
| 1               | Blue   | 5.92        | 104.28    | 80               | 1in SCH 80 w/<br>Flow Splitter | 8.40        |
| 2               | Pink   | 6.01        | 104.19    | 120              | 3/4in SCH 40                   | 12.50       |
| 3               | Orange | 6.62        | 103.58    | 105              | 3/4in SCH 80                   | 10.10       |
| 4               | White  | 7.15        | 103.05    | 80               | 1in SCH 80 w/<br>Flow Splitter | 8.40        |
| 5               | Purple | 7.39        | 102.81    | 66               | 1/2in SCH 40                   | 7.11        |
| 6               | Pink   | 7.42        | 102.78    | 51               | 1/2in SCH 80                   | 5.48        |
|                 |        |             |           |                  |                                | gal/day     |
|                 |        |             |           |                  |                                | trench area |
|                 |        |             |           |                  |                                | LINE LTAR   |
|                 |        |             |           |                  |                                | 0.4039      |
|                 |        |             |           |                  |                                | 0.4007      |
|                 |        |             |           |                  |                                | 0.3700      |
|                 |        |             |           |                  |                                | 0.4039      |
|                 |        |             |           |                  |                                | 0.4144      |
|                 |        |             |           |                  |                                | 0.4134      |

|                    |        |        |             |           |       |                |      |
|--------------------|--------|--------|-------------|-----------|-------|----------------|------|
|                    | total  | feet = | 502         | gal/min = | 51.99 | LTAR =         | 0.30 |
| % of Pipe Vol.     | 80     |        | Des. Flow   | 600       |       | (ltar + 5%)    | 0.32 |
| Dose Volume        | 261.04 |        | Pump Run=   | 11.54     |       | (ltar W/ INOV) | 0.40 |
| Dose Pump Time     | 5.02   |        | Tank Gal/IN | 27.78     |       | (ltar + 5%)    | 0.42 |
| Drawdown In Inches | 9.40   |        | Elev. Head  | 3.58      |       |                |      |
| Supply Line Length | 45     |        |             |           |       |                |      |
| Comments:          |        |        |             |           |       |                |      |



## Environmental Services

TEL 919 856 7400  
FAX 919 743 4772

### Water Quality Division

336 Fayetteville St. • P.O. Box 550 • Raleigh, NC 27602

DATE : May 4, 2007

### REQUIREMENTS TO COMPLETE YOUR PRESSURE MANIFOLD SYSTEM

NAME Richard Greythorn Homes

MAILING ADDRESS 3716 National Dr Ste 200, Raleigh, NC 27614

3993

PIN # 1709.02951451 PERMIT # D39293

ADDRESS OF PROPERTY 2105 Cadenza Ln

Sir:

Enclosed are your Approved Pressure Manifold Installation Plan and a Pressure Manifold Fact Sheet.

To complete your permit requirements :

Approved Plan--to be utilized by a registered contractor to install your system.

Pressure Manifold Fact Sheet --this document explains the principle behind the use of the Pressure Manifold. It also provides a schedule of required maintenance needed to maintain the system in peak working condition.

To summarize--install the Pressure Manifold System, and perform the required maintenance on your Pressure Manifold Sewage Disposal System.

NOTE: IF YOU HAVE A PRIVATE WELL, ALL WELL INSPECTIONS MUST BE COMPLETED BEFORE YOUR PERMIT IS FINALIZED.

Please call (919) 856-7400 or 856-7463 if you have any further questions.

Sincerely,

Brett S. Martin, L.S.S., R.S.  
Environmental Engineer  
bsmartin@co.wake.nc.us

## PRESSURE MANIFOLD DESIGN

(Repair)

Name: Mitchell Environmental, PAP.I.N. #: 1709.05.3993

D#:

Address:

Subdiv: Rose HallLot#: 31-R# of BDR: 5 Daily Flow: 600 gal/day L.T.A.R.: 0.30 gal/day/sq.ftSeptic Tank: 1500 gals Pump Tank: 1500 gals Sq. Foot: 1512 Stone Depth: N/A  
(EZ Flow)Number of Taps: 7 Length of Trenches: Variable ft(See Tap Chart for Details)Depth of Trenches: 30-24 in Manifold Length: Varies in (Dual Manifolds)Manifold Diameter: 4in sch 80pvc Tap Configuration: 6 in spacing 1 side(s) of manifoldSupply Line: length: 195 (total) ft Diameter: 2 in sch 40pvcFriction Loss + Fitting Loss: 9.33 ft(supply line length + 70' for fittings in pump tank)Design Head: 2 ft Elevation Head: 5.44 ftTotal Head: 16.77 ft Pump to Deliver: 55.93 gals/min at 16.77 ft headDosing Volume: 281.74 gals,Drawdown: 281.74 gals divided by 27.78 gals/in = 10.14 inches

Simplex Control Panel required; elapsed time meter and cycle counter required; Floats to be determined by type of pump tank used. A septic tank filter, or equal is required.

Possible pumps: Hydromatic:

Goulds:

Myers: ME Series

Zoeller:

Other:

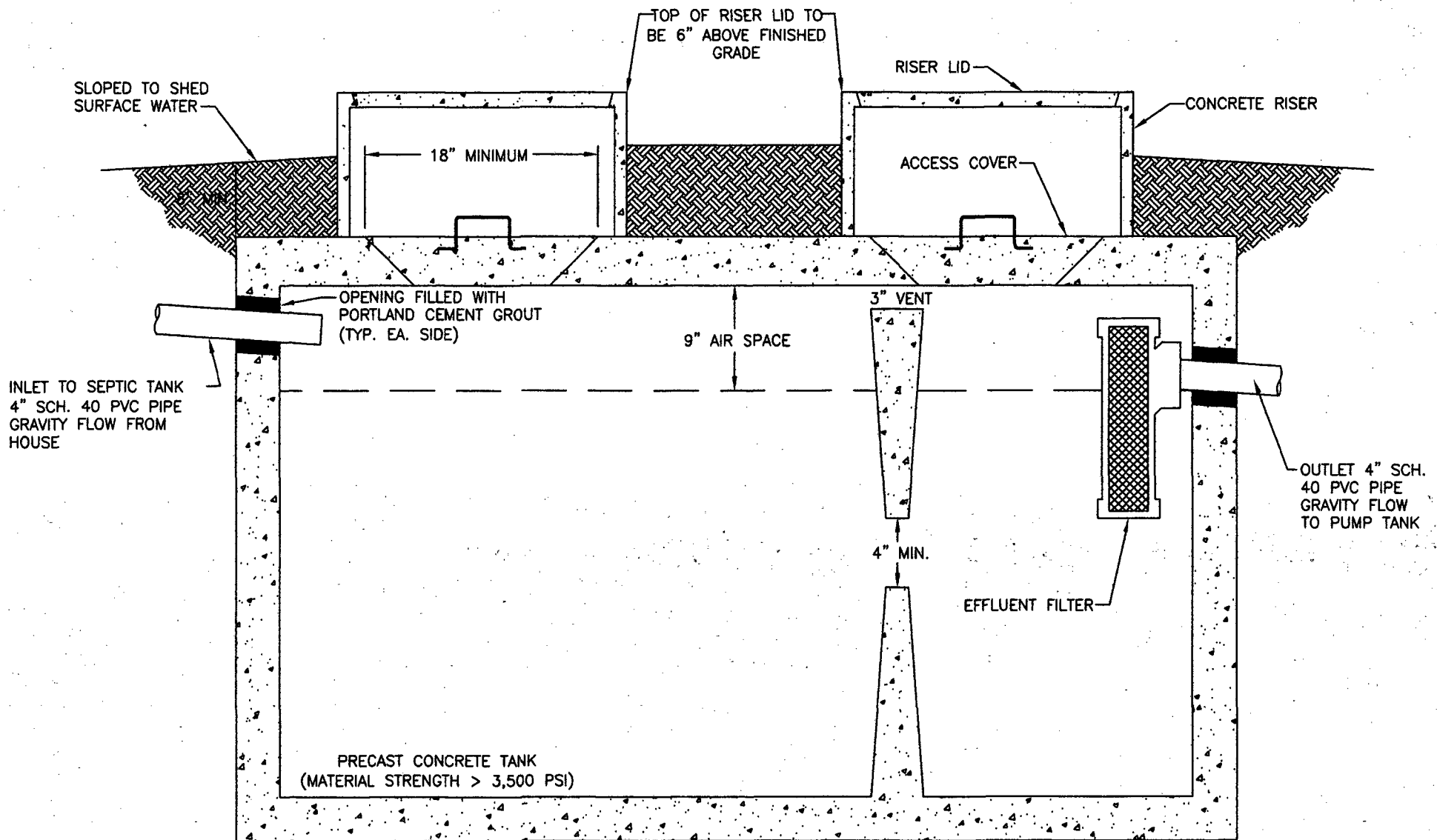
## TAP CHART

| Bench Mark      | 10.2   | is = 100.00 | set at    | West Prop Corner |              | Design Head:   |         | 2           |           |
|-----------------|--------|-------------|-----------|------------------|--------------|----------------|---------|-------------|-----------|
| Pump tank elev. | 3.5    |             | 106.70    | Pump elev.       | 101.70       | Manifold elev. |         | 107.14      |           |
| line            | color  | rod read    | Elevation | length           | hole size    | flow/tap       | gal/day | trench area | LINE LTAR |
| 1               | Red    | 4.06        | 106.14    | 50               | 1/2in SCH 80 | 5.48           | 58.79   | 150         | 0.3919    |
| 2               | Purple | 4.28        | 105.92    | 50               | 1/2in SCH 80 | 5.48           | 58.79   | 150         | 0.3919    |
| 3               | Orange | 4.57        | 105.63    | 88               | 3/4in SCH 80 | 10.1           | 108.35  | 264         | 0.4104    |
| 4               | Red    | 5.46        | 104.74    | 155              | 1in SCH 80   | 16.8           | 180.23  | 465         | 0.3876    |
| 5               | Blue   | 5.92        | 104.28    | 50               | 1/2in SCH 80 | 5.48           | 58.79   | 150         | 0.3919    |
| 6               | White  | 5.25        | 104.95    | 61               | 1/2in SCH 40 | 7.11           | 76.27   | 183         | 0.4168    |
| 7               | Pink   | 4.58        | 105.62    | 50               | 1/2in SCH 80 | 5.48           | 58.79   | 150         | 0.3919    |

|                    |             |       |        |             |           |       |                |      |
|--------------------|-------------|-------|--------|-------------|-----------|-------|----------------|------|
| % of Pipe Vol.     | 86          | total | feet = | 504         | gal/min = | 55.93 | LTAR =         | 0.30 |
| Dose Volume        | 281.74      |       |        | Des. Flow   | 600       |       | (ltar + 5%)    | 0.32 |
| Dose Pump Time     | 5.04        |       |        | Pump Run=   | 10.73     |       | (ltar W/ INOV) | 0.40 |
| Drawdown in Inches | 10.14       |       |        | Tank Gal/IN | 27.78     |       | (ltar + 5%)    | 0.42 |
| Supply Line Length | 195 (total) |       |        | Elev. Head  | 5.44      |       |                |      |

Comments:

Dual Manifolds Recommended

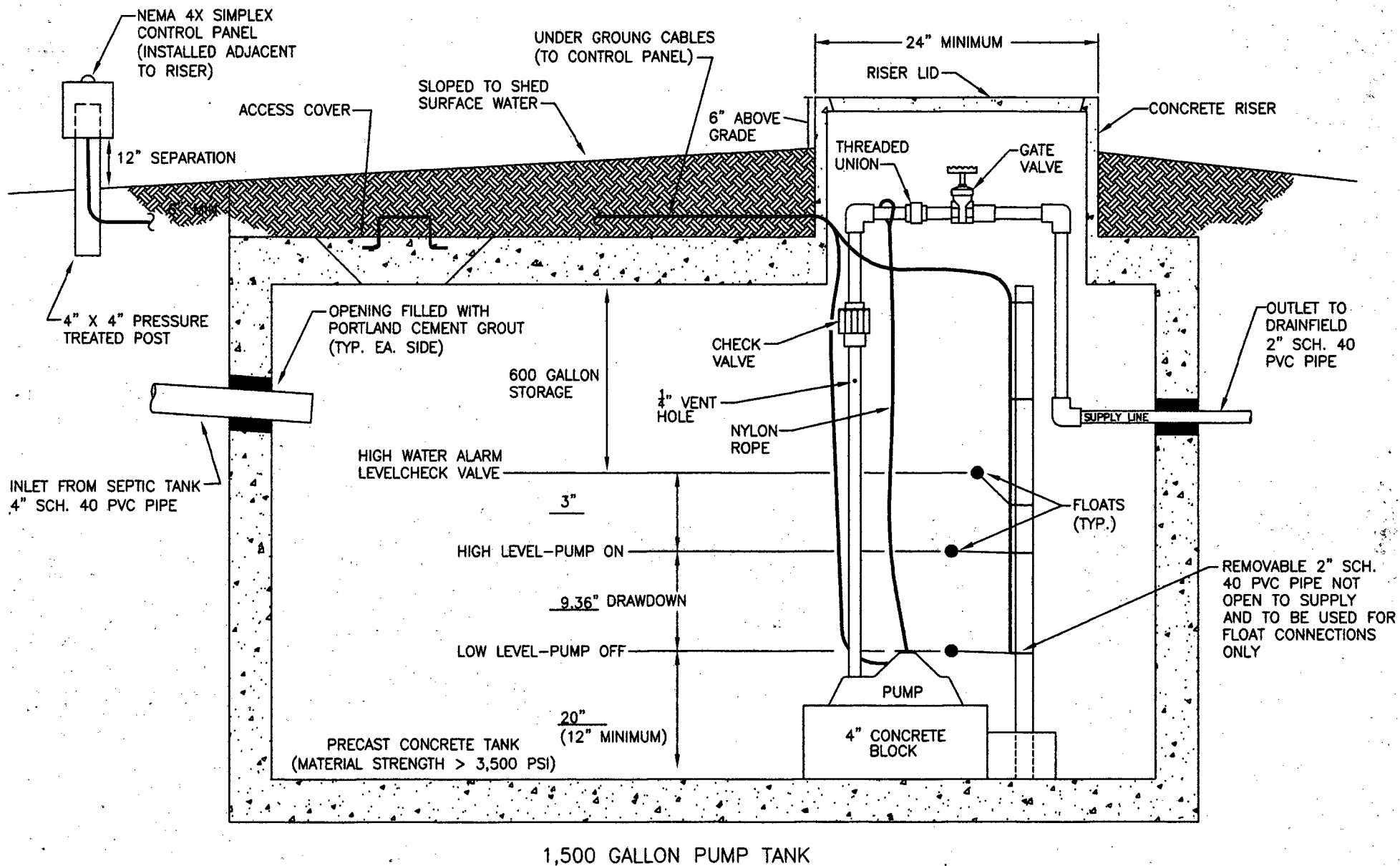


1,500 GALLON SEPTIC TANK

## SEPTIC TANK DETAIL

N.T.S.

\* DRAWDOWN SPECIFIED 27.78 GALLONS PER INCH



### *PUMP TANK DETAIL*

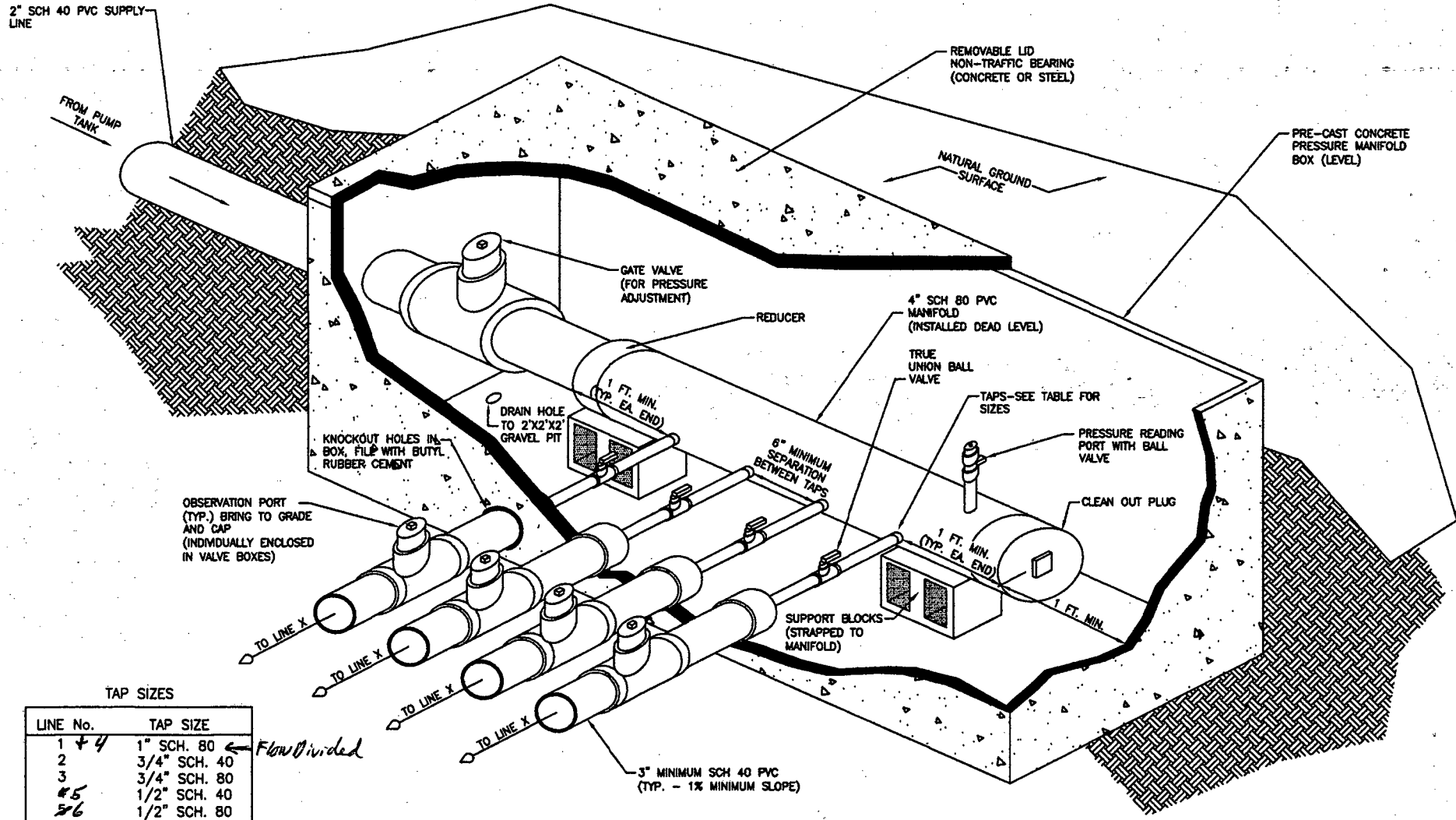
N.T.S.

# **PRESSURE MANIFOLD DETAIL** **FOR ROSE HALL SUBDIVISION LOT 31 SEPTIC SYSTEM**

N.T.S.

NOTE: MANIFOLD MAY NEED TO BE FLIPPED SO THAT  
 SUPPLY LINE ENTRANCE AND CLEANOUTS ARE  
 REVERSED. SEE SITE PLAN.

NOTE: THE NUMBER OF TAPS MAY VARY FROM LOT TO  
 LOT. SEE DESIGN SHEET FOR NUMBER OF TAPS.

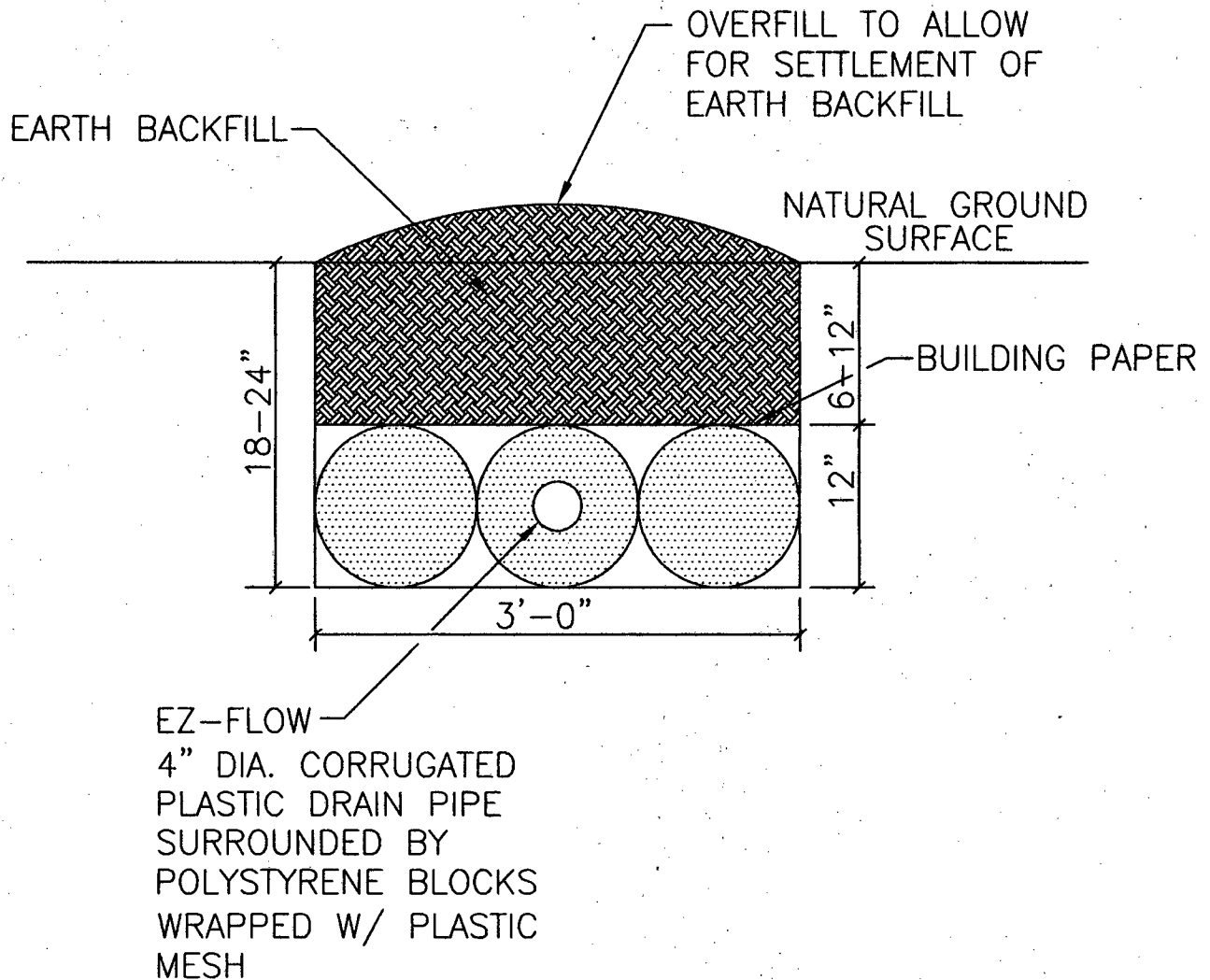


TAP SIZES

| LINE No. | TAP SIZE     |
|----------|--------------|
| 1 + 4    | 1" SCH. 80   |
| 2        | 3/4" SCH. 40 |
| 3        | 3/4" SCH. 80 |
| 4 5      | 1/2" SCH. 40 |
| 5 6      | 1/2" SCH. 80 |

Flow Divided

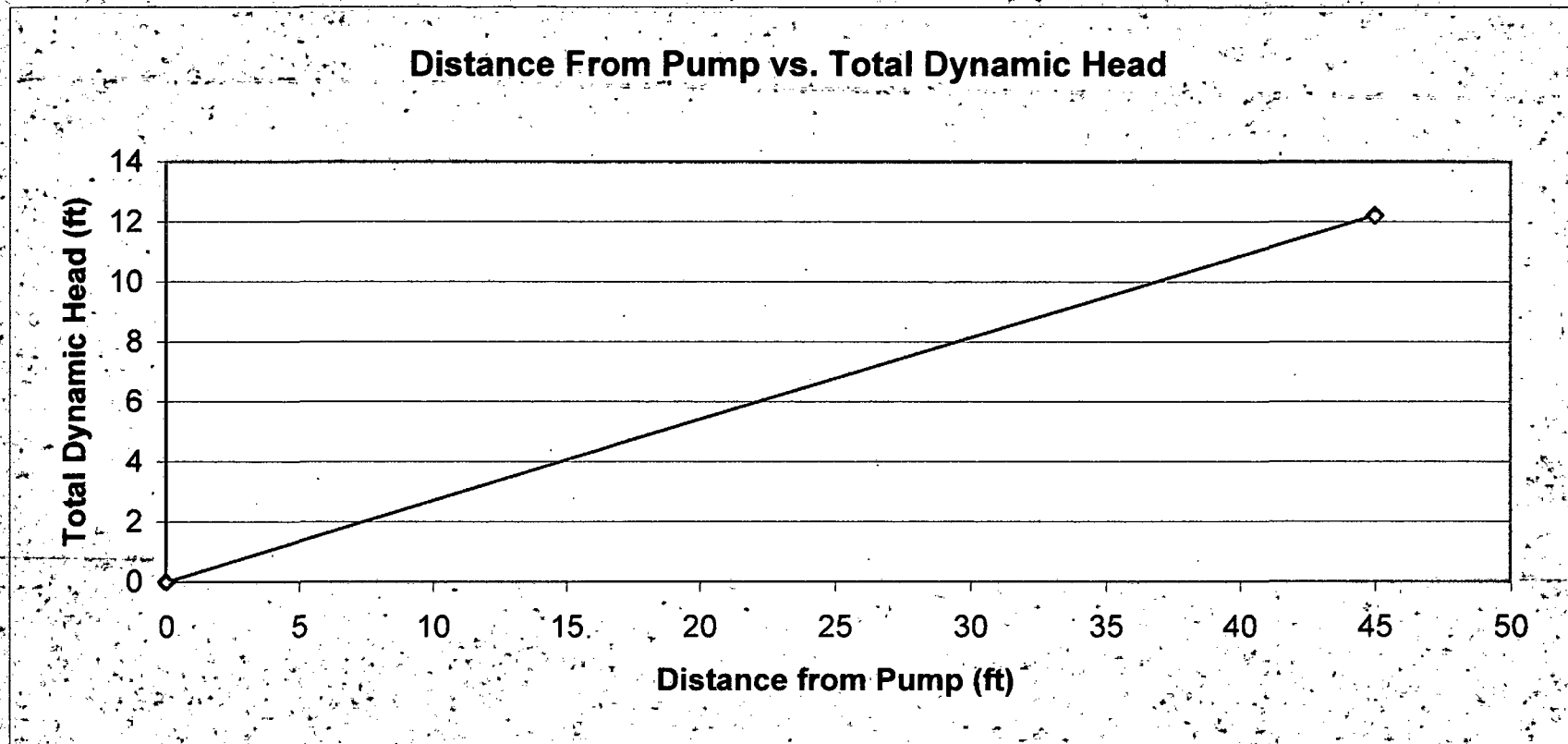
# NITRIFICATION TRENCH DETAIL FOR EZ-FLOW



## NOTES:

1. PERFORATED CORRUGATED PLASTIC PIPE SHALL MEET REQUIREMENTS OF ASTM D 2729.
2. PIPE SHALL BE LEVEL.
3. ENDCAP SHALL BE PROVIDED AT END OF ALL CORRUGATED PLASTIC PIPE LINES.
4. TRENCH BOTTOM SHALL BE LEVEL.

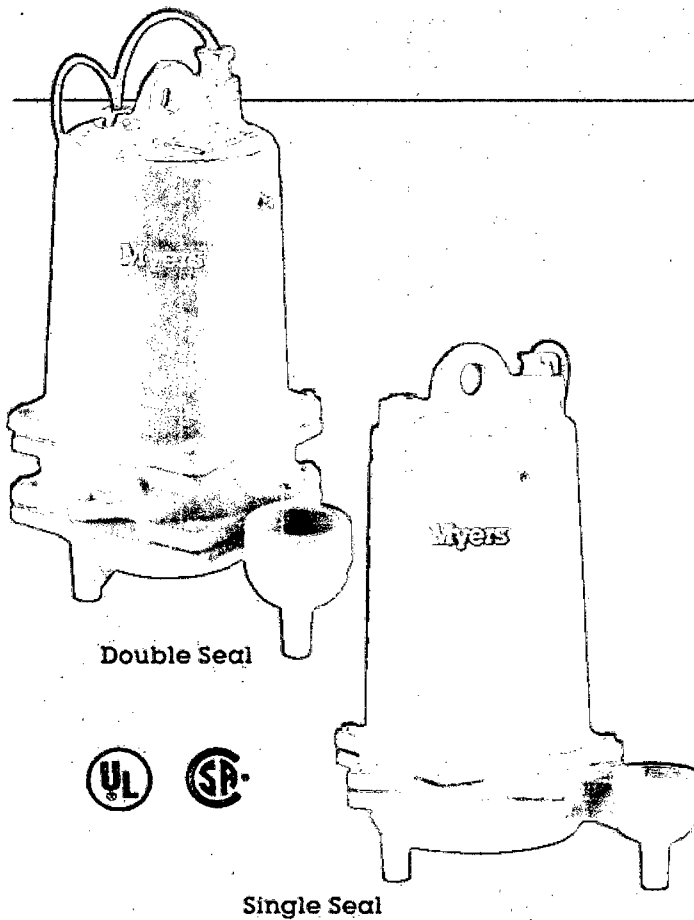
Rose Hall - Lot 31 (*Initial System*)



4/3/2007

# ME SERIES

1/2 through 1-1/2 HP  
Effluent Pumps



**T**HE MYERS ME SERIES EFFLUENT PUMPS ARE DESIGNED SPECIFICALLY FOR TODAY'S EFFLUENT PRESSURE DISTRIBUTION MOUNDS, TRENCHES AND HIGH FLOW DRAINAGE APPLICATIONS. The ME Series effluent pumps with their efficient two vane, enclosed impellers, provide the ideal performance for optimum dosing. ME Series pumps are constructed of only corrosion resistant materials like cast iron, stainless steel and thermoplastics to assure that they will perform for years to come in the harsh effluent environment and drainage applications. For more information, call your Myers distributor today or the Myers Ashland, Ohio sales office at 419/289-1144.

## ADVANTAGES BY DESIGN

### IDEAL FOR USE IN MOUND AND TRENCH PRESSURE DISTRIBUTION SYSTEMS

- High efficiency, two vane, enclosed impeller provides ideal performance for most efficient dosing.
- Impeller passes full 3/4 inch solids.
- Enclosed impeller design eliminates possibility of jamming or corrosion between impeller and volute.

### DURABLE MOTOR WILL DELIVER MANY YEARS OF RELIABLE SERVICE

- Oil-filled motor for maximum heat dissipation and constant bearing lubrication.
- High torque, permanent split capacitor (PSC), single phase motors. No starting switches or relays to wear out.
- Optional seal leak probe warns of seal leak condition. (Dual seal motors only.) Helps prevent costly motor damage.
- Motors have on winding current and temperature sensitive overload. (Single phase only.)

### THE ME SERIES EFFLUENT PUMPS ARE DESIGNED FOR YEARS OF MAINTENANCE FREE OPERATION

- Volute seal ring is replaceable. Restores pump to original performance if wear should occur.
- Motor is held in place by 4 screws. Easily removed if service is ever needed.

## PRODUCT CAPAILITIES

|                           |                                                                                                                                                                     |             |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| Capacities To             | 120 GPM                                                                                                                                                             | 454 LPM     |
| Heads To                  | 95 ft.                                                                                                                                                              | 28.9 m      |
| Max. Spherical Solids     | 3/4 in.                                                                                                                                                             | 19 mm       |
| Liquids Handling          | domestic effluent & drain water                                                                                                                                     |             |
| Intermittent Liquid Temp. | up to 140° F                                                                                                                                                        | up to 60° C |
| Motor Electrical Data     | 1/2 HP 115 volts, 1 ph.<br>1/2 to 1-1/2 HP 230 volts, 1 ph.<br>208, 230, 460, 575 volts, 3 ph.<br>oil-filled, permanent split capacitor type, 1 ph. 3450 rpm, 60 Hz |             |
| Motor Insulation          | Class B (130° C)                                                                                                                                                    |             |
| Third Party Approvals     | UL, CSA                                                                                                                                                             |             |
| Acceptable pH Range       | 6-9                                                                                                                                                                 |             |
| Specific Gravity          | .9-1.1                                                                                                                                                              |             |
| Viscosity                 | 28-35 SSU                                                                                                                                                           |             |
| Discharge, NPT            | 2 in.                                                                                                                                                               | 50.8 mm     |
| Mfn. Sump Dia. Simplex    | 24 in.                                                                                                                                                              | 61 cm       |
| Duplex                    | 36 in.                                                                                                                                                              | 91.4 cm     |

|                            |                                                        |
|----------------------------|--------------------------------------------------------|
| Construction Materials     |                                                        |
| Motor Housing, Volute      | cast iron, Class 30, ASTM A48-76                       |
| Enclosed Two Vane Impeller | Standard: engineered thermoplastic<br>Optional: bronze |
| Impeller Wear Ring         | 304 SST                                                |
| Volute Sealing Ring        | Buna-N                                                 |
| Shaft                      | 416 SST                                                |
| Power Cord                 |                                                        |
| 1/2 HP 1 Ph                | 20 ft. 16/3 SJOW/SJOW-A                                |
| 3/4 - 1-1/2 HP 1 Ph        | 20 ft. 14/3 SJOW/SJOW-A                                |
| All 3 Ph                   | 20 ft. 14/4 SOW/SOW-A                                  |
| Shaft Seals: Standard      | single carbon & ceramic                                |
| Optional                   | landem carbon & ceramic                                |
| Opt. Lower                 | tungsten carbide                                       |
| Fasteners                  | 300 Series SST                                         |

WHERE INNOVATION MEETS TRADITION

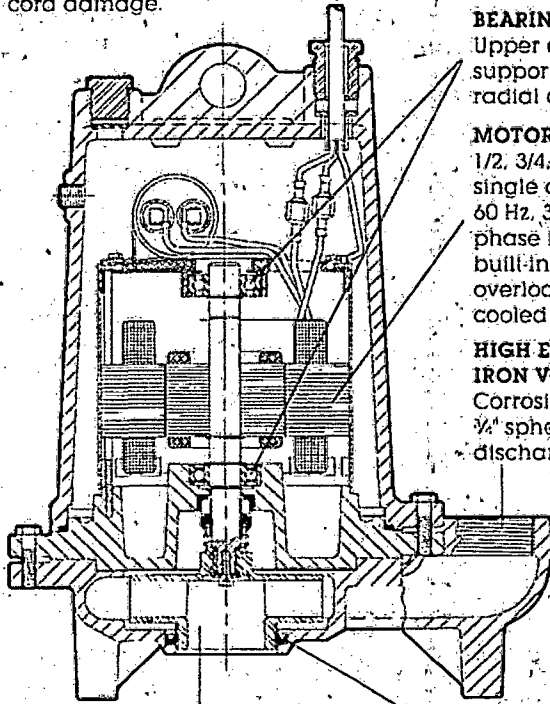
**Myers®**

# ME SERIES

1/2 through 1-1/2 HP  
Effluent Pumps

## POWER CORD

Jackel sealed with compression fittings. Individual wires potted with epoxy to prevent wicking in case of cord damage.



## MOTOR HOUSING

Cast iron for efficient heat transfer and corrosion resistance.

## BEARINGS

Upper and lower ball support rotor. Take radial and thrust loads.

## MOTOR

1/2, 3/4, 1 and 1-1/2 HP single or three phase. 60 Hz, 3450 RPM. Single phase PSC motors have built-in on winding overload protection, oil-cooled and lubricated.

## HIGH EFFICIENCY CAST IRON VOLUTE

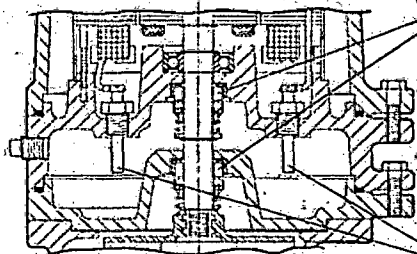
Corrosion resistant. Passes 3/4" spherical solids. 2" NPT discharge.

## ENCLOSED TWO VANE IMPELLER

high efficiency. Passes 3/4" spherical solids with stainless steel wear ring. Optional bronze construction available.

## VOLUTE/IMPELLER SEAL RING

Maintains high efficiency and reduces recirculation. Replaceable.



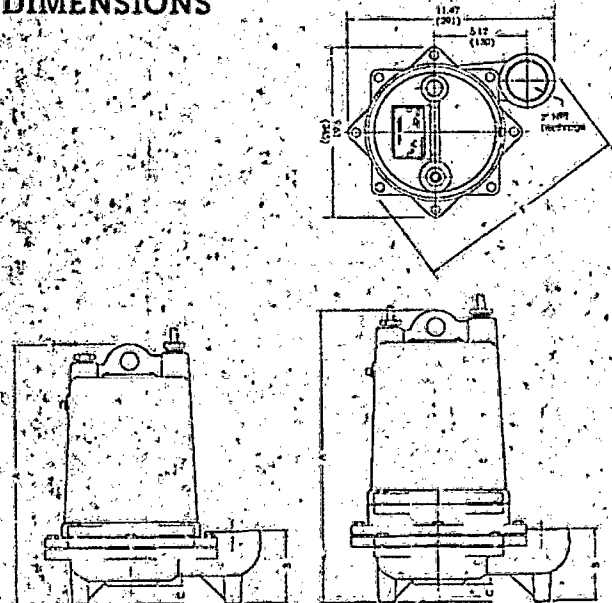
## SHAFT SEAL(S)

Carbon and ceramic faces. Optional dual tandem seals. Extends motor life.

## SEAL LEAK PROBES

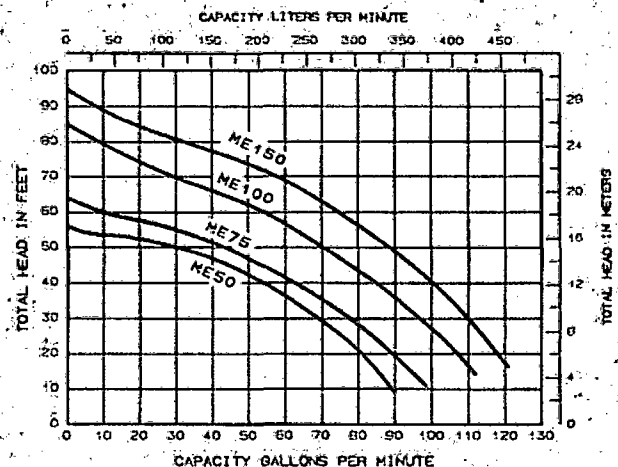
Optional probes (dual seal only) detect water leakage in seal housing. Activates warning light.

## DIMENSIONS



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

## PERFORMANCE CURVE



K3320 5/01  
Printed in U.S.A.

**Myers®**

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419/289-1144, FAX: 419/289-6658, [www.femyers.com](http://www.femyers.com)

Myers (Canada): 269 Trillium Drive, Kitchener, Ontario N2G 4W5

# INSTALLER FRIENDLY SERIES™ - IFS Single Phase Simplex (Demand/TD)

Single phase, simplex demand dose or timed dose, float controlled system for pump control and system monitoring.

The IFS simplex control panel is designed to control one 120, 208, 240 VAC single phase pump in water and sewage installations.

The IFS control panel features a simple, easy-to-use touch pad on the inner door for programming and monitoring pump and float operation.

The panel configuration can be easily converted in the field to either a timed dose or demand dose by a simple jumper change, and by adding a display board (timed dose only) for programming pump ON/OFF times.

## TOUCH PAD FEATURES

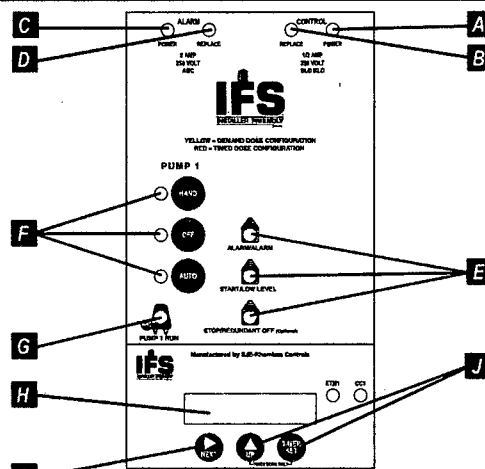
- A. **Control Power Indicator/Fuse.** Indicator light will illuminate if control power is present in panel.
- B. **Control Fuse Replace Indicator** will illuminate if control fuse is blown. Alarm will activate if control fuse is blown.
- C. **Alarm Power Indicator/Fuse.** Indicator light will illuminate if alarm power is present in panel.
- D. **Alarm Fuse Replace Indicator** will illuminate if alarm fuse is blown.
- E. **Float Indicators** will illuminate when floats are activated. Alarm will activate if a float operates out of sequence and the appropriate float indicator will flash.
- F. **HOA (Hand-Off-Automatic) Buttons** control pump mode with indication. Hand mode defaults to Automatic when stop level is reached.
- G. **Pump Run Indicator** will illuminate when pump is called to run.
- H. **Seven-Segment LED Display** shows mode, pump elapsed time (hh:mm), events (cycles), alarm counter, timed dose override counter, and ON/OFF times. (Display is standard on timed dose and optional on demand dose.)
- I. **Next Push Button** when pressed toggles display through: mode, elapsed time meter, cycle counter, and alarm counter. Timed dose mode also provides override counter and pump ON/OFF times.
- J. **Repeat Cycle Timer Display Push Buttons** when pressed sets pump ON/OFF times (timed dose only).

**Note:** LED display will turn off after one minute of not being used.

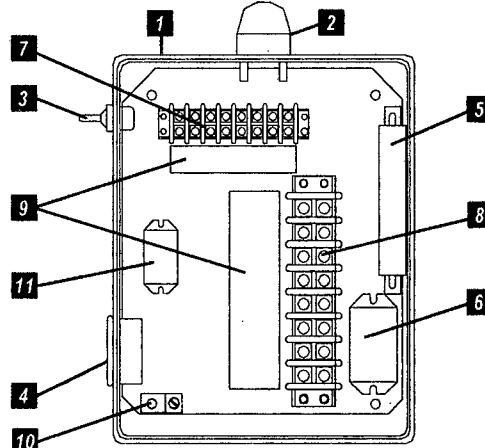
## PANEL COMPONENTS

1. **Enclosure base** measures 10 X 8 X 4 inches (25.4 X 20.32 X 10.16 cm). NEMA 4X (ultraviolet stabilized thermoplastic with removable mounting feet for outdoor or indoor use). **Note:** Options, voltage, and amp range selected may change enclosure size and component layout.
2. **Red Alarm Beacon** provides 360° visual check of alarm condition.
3. **Exterior Alarm Test/Normal/Silence Switch** allows horn and light to be tested and horn to be silenced in an alarm condition. Alarm automatically resets once alarm condition is cleared.
4. **Alarm Horn** provides audio warning of alarm condition (83 to 85 decibel rating).
5. **Circuit Breaker** (optional) provides pump disconnect and branch circuit protection.
6. **Power Relay** controls pump by switching electrical line(s). Definite purpose contactors used when pump full load amps are above 15.
7. **Float Connection Terminal Block**
8. **Large Incoming Power/Pump Connection Terminal Block**
9. **Terminal Block Installation Labels**
10. **Ground Lug**
11. **Alarm Activation Relay**

**NOTE:** Schematic/Wiring Diagram and Pump Specification Label are located inside the panel on enclosure cover.



**Model Shown IFS11W904X8AC  
(Inner door view)**



**Model Shown IFS11W904X8AC  
(Inside view)**

Reg. Cdn Pat. & TM Off

## FEATURES

- Entire control system (panel and switches) is UL Listed to meet and/or exceed industry safety standards
- Dual safety certification for the United States and Canada
- Standard package includes:  
Demand Dose - three 20' Sensor Float® control switches  
Timed Dose - two 20' Sensor Float® control switches
- Complete with step-by-step installation instructions
- Three-year limited warranty



**SJE Rhombus**  
CONTROLS

PO Box 1708, Detroit Lakes, MN 56502  
1-888-DIAL-SJE • 1-218-847-1317  
1-218-847-4617 Fax

|            |          |          |          |  |  |          |          |                |
|------------|----------|----------|----------|--|--|----------|----------|----------------|
| <b>IFS</b> | <b>2</b> | <b>1</b> | <b>W</b> |  |  | <b>4</b> | <b>H</b> | <b>8AC 15A</b> |
|------------|----------|----------|----------|--|--|----------|----------|----------------|

**MODEL IFS**

**MODEL TYPE**

☐ 1 = SPLX TIMED DOSE (includes option 8AC standard)

☒ 2 = SPLX DEMAND DOSE

**ALARM PACKAGE**

☒ 1 = alarm package (includes test/normal/silence switch, fuse, red light & horn)

**ENCLOSURE RATING**

☒ W = NEMA 4X

**STARTING DEVICE**

☐ 1 = 120/208/240 VAC

☐ 9 = 120 VAC

**PUMP FULL LOAD AMPS**

☐ 0 = 0-7 FLA

☐ 1 = 7-15 FLA

☐ 2 = 15-20 FLA

**PUMP DISCONNECTS**

☐ 0 = no pump disconnect

☒ 4 = circuit breaker

120 VAC (must select starting device option 9)

120/208/240 VAC (must select starting device option 1)

**SWITCH APPLICATIONS**

☒ H = floats (Timed dose = low level and alarm / Demand dose = stop, start, and alarm)

☐ X = no float

timed dose

demand Dose

**Note:** Pump down applications only.

**OPTIONS** *Listed below*

**If additional features are required, call the factory for a quote on an Engineered Custom control panel.**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>CODE DESCRIPTION</b></p> <p><input type="checkbox"/> 3A Alarm flasher</p> <p><input type="checkbox"/> 3B Manual reset alarm</p> <p><input type="checkbox"/> 4A Redundant off</p> <p>(select option 4D if floats are required)</p> <p><input type="checkbox"/> 4D Redundant off float - 20 ft. Sensor Float®</p> <p><input type="checkbox"/> 6A Auxiliary alarm contacts, form C</p> <p><input checked="" type="checkbox"/> 8AC Display board includes: ETM counter, events (cycles) counter, alarm counter, and override counter (timed dose only). Display board also required for changing a demand dose panel to timed dose panel.</p> <p>Demand Dose</p> <p>Timed Dose (included as standard)</p> <p><input type="checkbox"/> 10E Lockable latch - NEMA 4X</p> <p><input type="checkbox"/> 10F Lightning arrestor</p> <p>(control and alarm power combined)</p> | <p><b>CODE DESCRIPTION</b></p> <p><input type="checkbox"/> 10K Anti-condensation heater</p> <p><input type="checkbox"/> 11C NEMA 1 remote alarm panel</p> <p>(must select option 6A)</p> <p><input type="checkbox"/> 11D NEMA 4X remote alarm panel</p> <p>(must select option 6A)</p> <p><input checked="" type="checkbox"/> 15A Control / Alarm circuit breaker</p> <p><input type="checkbox"/> 16A 10' cord in lieu of 20' (per float)</p> <p><input type="checkbox"/> 16B 15' cord in lieu of 20' (per float)</p> <p><input type="checkbox"/> 16C 30' cord in lieu of 20' (per float)</p> <p><input type="checkbox"/> 16D 40' cord in lieu of 20' (per float)</p> <p><input type="checkbox"/> 17C Sensor Float® / internally weighted ▲ (per float)</p> <p><input type="checkbox"/> 17D Sensor Float® / externally weighted ▲ (per float)</p> <p><input type="checkbox"/> 17G MilliAmpMaster™ / pipe clamp ● (per float)</p> <p><input type="checkbox"/> 17H MilliAmpMaster™ / externally weighted ● (per float)</p> <p><input type="checkbox"/> 18A Timer override option with float (timed dose only)</p> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

● Mechanically-activated    ▲ Mercury-activated

## SAMPLE

|              |            |          |          |          |          |          |          |          |                |
|--------------|------------|----------|----------|----------|----------|----------|----------|----------|----------------|
| <b>MODEL</b> | <b>IFS</b> | <b>1</b> | <b>1</b> | <b>W</b> | <b>9</b> | <b>1</b> | <b>4</b> | <b>H</b> | <b>8AC 10E</b> |
|--------------|------------|----------|----------|----------|----------|----------|----------|----------|----------------|

**Model Type**

**Alarm Package**

**Enclosure Rating**

**Starting Device**

**Pump Full Load Amps**

**Pump Disconnects**

**Switch Application**

**Options: Display, Lockable Latch**

QUALITY PUMPS SINCE 1939

Product information presented here reflects conditions at time of publication. Consult factory regarding discrepancies or inconsistencies.

**ZOELLER**  
PUMP CO.



SECTION: 3.20.145

FM1730

0205

Supersedes

0604

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## ZOELLER ON-SITE WASTEWATER PRODUCTS

### INTRODUCING THE TRU-FLOW SPLITTER SYSTEM



Patent No. 6,112,766  
and 6,152,650

4" riser easily attaches to visually inspect and adjust the diverter.

Sturdy polypropylene box to withstand frost heaves, heavy loads, and corrosion.

Bubble level included for quick and easy installation and service.

Can be field adapted from 2 to 5 outlets.

Diverter can accurately split gravity flows down to 1/10 gpm and pumped flows up to 30 gpm such as enhanced flow or flood dose systems.

Lightweight for quick and easy installations.

#### ORDER NUMBERS:

P/N 173-0001 - Tru-Flow Splitter System (Standard with 4" Schedule 35 pipe seals)

P/N 173-0005 - 3" pipe seals.  
(order in addition to 173-0001.)

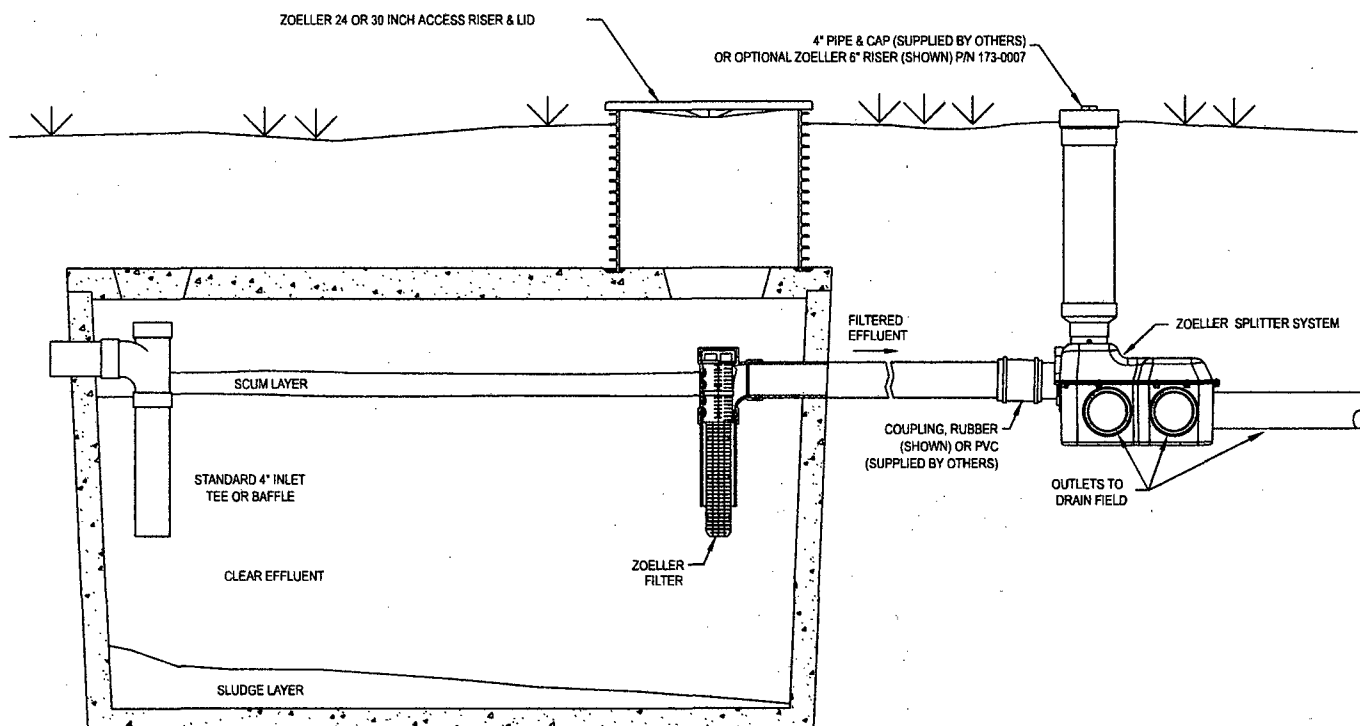
P/N 173-0006 - 4" Schedule 40 pipe seals.  
(order in addition to 173-0001.)

P/N 173-0007 - Zoeller 6" diameter x 36" tall riser for splitter system. Used on deep installations to aid in diverter adjustment. Height is field adjustable.

#### Splitter System

This innovative Splitter System will evenly split effluent into two to five lines. It is made of two major parts: (1) the diverter basin & cover and (2) the diverter. The patented bubble level design allows for post construction adjustability and maintenance, thereby solving the problems associated with distribution box settlement. The Tru-Flow® unit may settle as much as 15° front-to-back (30° total) and/or 12° side-to-side (24° total) and, when adjusted, will evenly split effluent. The Splitter System works with low flows as well as high flows. This unique design has no parts to wear out and utilizes corrosion resistant materials.

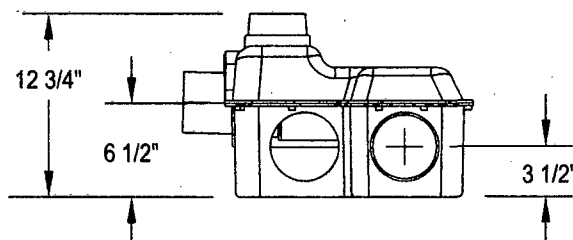
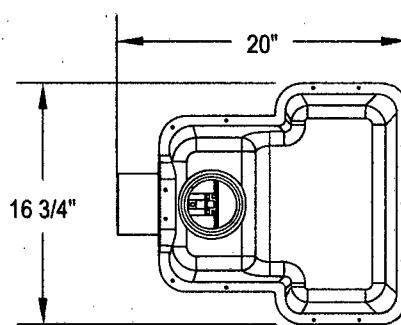
# Technical Specifications



SK1975

## SAMPLE ENGINEERING SPECIFICATION:

CONTRACTOR must furnish a Zoeller Tru-Flow® splitter system, model 173-0001. A concrete or plastic distribution box requiring speed levelers should not be considered equal. The assembled splitter system must be lightweight to ease the burden of installation. Product must be capable of splitting effluent from 1/10th to 30 gpm evenly into 2 to 5 distribution lines. Product must not require external water for distribution line flow balancing purposes. System must be maintainable from the surface. Bubble level will be built in for easy adjustments and service. A 4" or 6" riser pipe shall be brought to the surface for future access, inspection, and adjustment. Splitter housing shall be rigid enough to withstand the anticipated frost and traffic loading. The splitter system must be made of all non-corrosive materials. Housing shall be made of polypropylene to increase the chemical resistance to the effluent and gases present in the waste stream. Diverter shall be made of virgin ABS to enhance product life. Six 4" SDR 35 pipe seals shall be provided with the unit.



SK1976

ALL ZOELLER ONSITE PRODUCTS MUST BE INSTALLED IN ACCORDANCE WITH PLUMBING AND HEALTH DEPARTMENT CODES.

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