

AGENDA
BRIDGEWATER TOWNSHIP BOARD OF TRUSTEES
Date May 5, 2016 7:00 p.m.

CALL TO ORDER / PLEDGE OF ALLEGIANCE

CITIZEN PARTICIPATION

Public Comment: Any person shall be permitted to address a meeting of the Township Board.

Public comment shall be carried out in accordance with following board rules and procedures:

1. Comments shall be directed to the board, with questions directed to the chair.
2. Any person wishing to address the board shall state his or her name and address.
3. Persons may address the board on matters that are relevant to Township government issues.
4. No person shall be allowed to speak more than once on the same matter, excluding the time needed to answer board member's questions. The chair shall control the amount of time each person shall be allowed to speak.

APPROVE MINUTES: April 7, 2016 Regular

Meeting REVIEW AND APPROVE

AGENDA PUBLIC-SAFETY REPORT

REPORTS & CORRESPONDANCE

1. Treasurer's Report
2. Clerk's Report
3. Supervisor's Report
4. Trustees' Reports
5. Written Reports: Zoning Administrator Report, Assessor Report, Planning-Commission Minutes

REGULAR AGENDA

1. Financials, Approve Disbursements
2. Bemis Road
3. WCRC 2016 Drainage Matching Funds
4. Planning Commission Public Hearing, Ordinance Amendment
5. WWTP air valves

CITIZEN PARTICIPATION

ADJOURN

Upcoming Meetings and Events:

Township Planning Commission: May 9, 2016, Bridgewater Township Hall, 7:00 p.m.

Township Board of Trustees: June 2, 2016 Bridgewater Township Hall, 7:00 p.m.

Southwest Washtenaw Council of Governments: TBA, 7:30 p.m.

**BRIDGEWATER TOWNSHIP
BOARD OF TRUSTEES MEETING
MINUTES OF MEETING
THURSDAY, MARCH 3, 2016**

I. CALL TO ORDER

The regular monthly meeting of the Bridgewater Township Board of Trustees was called to order by Supervisor Smith at 7:00 p.m. followed by the pledge of allegiance to the flag at Bridgewater Township Hall, 10990 Clinton Road, Manchester, MI.

Present: Supervisor Ronald Smith, Deputy Clerk Judy Klager, Treasurer Michelle McQueer, and Trustees David Faust and Geoffrey Oliver.

Absent: Clerk Laurie Fromhart.

Also Present Township Attorney Fred Lucas, Township Planner Rodney Nanney, Township Engineer Marcus McNamara, Planning Commission Chair Dave Horney, Planning Commission Secretary Tom Wharam, GS Materials LLC Consultant Chip Tokar.

Attendance: 7

II. CITIZEN PARTICIPATION

A resident asked about the current status of the Bemis Road Bridge. Horney commented a Compensation Commission can only meet during odd numbered years and that the Board may want to consider forming a citizen's committee to evaluate compensation for elected officials.

III. APPROVAL OF MINUTES

Smith moved to approve the February 4, 2016 meeting minutes as drafted. Faust seconded the motion which was adopted unanimously.

IV. REVIEW AND APPROVE AGENDA

McQueer moved to approve the agenda as presented. Oliver seconded the motion which was adopted unanimously.

Public Safety Report

The Sheriff's Department submitted a written report to the Board on the law enforcement activities for the month of January 2016.

V. PUBLIC HEARINGS

A. GS Materials LLC – Mineral Extraction License and Variance to Authorize Expanded Operations|

Smith moved to adjourn the regular meeting and open the public hearing on GS Materials Mineral Extraction License and Variance to authorize Expanded Operations at 7:09 p.m. Faust seconded the motion which was adopted unanimously.

Chip Tokar with Natural Resources Management on behalf of GS Materials gave a brief presentation on their proposed plans to expand their current mining operation. Tokar stated they are proposing to expand GS Materials Lake by approximately 4 acres in an easterly direction, and an expansion of the Crego Peltcs Lake by approximately 4.6 acres in a westerly direction. Tokar indicated as part of the expansion they are proposing to lower the lake level by 2.5 feet to 849 feet to the base condition that existed in 2000 to help the hydrology modeling for possible future expansion, and potentially connect the two lakes to form one large lake. Tokar noted their original plans presented to the MDEQ back in 2003 included one large lake but the

MDEQ requested the expansion be done slowly over time to ensure there would be no impact to neighboring wells and wetlands. Tokar also stated they are requesting a variance request from the setback between the common property line so they can waive the lateral support so mining and machinery can move back and forth between the two parcels. Tokar reported the Crego Peltcs parcel is governed by Ordinance 59 which requires the variance approval. Tokar indicated the GS Materials parcel is currently governed by a consent judgment which they would like to move to permitted conditions under Ordinance 59 to regulate the whole operation. Tokar stated they are not proposing to lower the lake levels in a significant manner that would affect any domestic wells, that they will continue to sample the ground water, and they have not seen any significant changes since 2000. Tokar also addressed Tom Peltcs concern regarding the stockpiling of topsoil on the Crego Peltcs parcel. Tokar reported the topsoil on site is of low organic content and quality and they have stockpiled the topsoil on the property for sale and reclamation purposes. Tokar explained the topsoil stockpiles are shown on the annual map with volumes that are calculated by engineering methods and inspected by the Township engineer.

Henry Jordan of Hogan Road stated he has a 50 foot well, and asked if their projections on how fast this is going to come together is based on the rate they are mining gravel now, or what it was several years ago. Tokar responded they based it on what they projected it to be, so they actually projected to increase as they mine, and that the rates are not too far off of what's going on right now, but it did slow down between 2008 and 2012 due to the economy.

Township attorney Fred Lucas stated that GS Materials is responsible if any domestic wells are affected and is part of the permitting requirement.

Township engineer Marcus McNamara stated OHM reviewed GS Materials application prior to the planning commission hearing and recommended approval except for the variance request which hadn't been submitted at the time. McNamara indicated he issued a brief report today recommending approval of their plans and that the variance request is warranted.

Township planner Rodney Nanney stated he did not issue a new review letter since the Planning Commission hearing, but did look at the variance application and explained that Ordinance 59 allows the Board to grant a variance. Nanney summarized the standards for a variance request that must be met by the applicant. Nanney reported they found the applicant's reasons for the variance compelling and agree with the Township engineer that it is warranted.

Tom Peltcs commented the MDEQ permit language indicates the slopes of the lakes to be 1:4 but the application indicates 1:6 and asked which one is correct. McNamara explained the MDEQ restricts the slopes to no steeper than 1:4 and that 1:6 is actually a shallower slope. McNamara noted the plans meets the requirements of the Township ordinance which is more restrictive. Tom Peltcs asked where the 19,000 cubic yards of topsoil is stockpiled on site. Tokar indicated on the map where the topsoil is currently stockpiled on site, and invited Peltcs out to the site to show him the location. Peltcs expressed concerned if the topsoil is not being saved they won't be able to restore the site and they will leave. Lucas explained that GS Materials has posted a reclamation bond that covers the cost to reclaim the land and protects the Township in case the operator abandons the project. Lucas recited the topsoil requirements in the ordinance for the purpose of reclamation.

Smith moved to close the public hearing and open the regular meeting at 7:56 p.m. Oliver seconded the motion which was adopted unanimously.

B. General Fund and WWTP Budgets

Smith moved to adjourn the regular meeting and open the public hearing on the 2016-2017 fiscal year budgets at 7:57 p.m. McQueer seconded the motion which was adopted unanimously.

Smith reported the Supervisor is required on an annual basis to submit a balanced budget for Board approval. Smith noted a few changes in the WWTP budget that establishes a WWTP Operations Committee. Smith also noted last year the Township spent extra money on roads, but because of the Bemis Road Bridge status he chose not to budget extra money until the replacement costs for the bridge is better defined. An error was noted under the line item for planning and zoning correcting the total budgeted amount to \$19,500. McQueer requested a correction under the tax administration fee line item from \$32,000 to \$26,000 reducing total income to \$239,587.

Tom Wharam asked why the increase in the cost for cemetery care. Smith explained the Board is separating the actual cost of cemetery maintenance instead of combining it with town hall building and grounds expense, and that improvements to the cemetery is on the Board's project list for 2016. Dave Horney suggested budgeting for a portable screen and projector for those who wish to make presentations so it is highly visible to those in attendance.

Smith moved to close the public hearing and open the regular meeting at 8:09 p.m. Oliver seconded the motion which was adopted unanimously.

VI. REPORTS AND CORRESPONDANCE

A. Treasurer's Report

McQueer submitted a written report to the Board.

B. Clerk's Report

No report.

C. Supervisor's Report

Smith reported the Board of Review's organizational meeting will be held in the township hall basement on March 8th due to the presidential primary election.

D. Trustees' Report

Faust reported the property on Michigan Avenue is getting worse with more junk, and the fire run for the Willow Road property will need to be billed for an illegal burn.

E. Written Reports

Board packets included reports from the Assessor, Zoning Administrator, and Planning Commission.

VII. PRIORITY BUSINESS

A. MMLLPP Insurance Renewal

Smith moved to approve the MMLLPP as our insurance carrier for this year. Oliver seconded the motion. Roll Call Vote: Faust yes, Fromhart absent, McQueer yes, Oliver yes, Smith yes.

B. Approve Disbursements from February 5, 2016 through March 3, 2016

Smith moved to pay the monthly bills from the general and sewer funds in the total amount of 29,801.02. Faust seconded the motion. Roll Call Vote: Faust yes, Fromhart absent, McQueer yes, Oliver yes, Smith yes. Motion passed.

C. GS Materials LLC Variance Request Approval

Smith moved to approve GS Materials LLC Variance Request. McQueer seconded the motion. Roll Call Vote: Faust yes, Fromhart absent, McQueer yes, Oliver yes, Smith yes. Motion passed.

D. GS Materials LLC Permit Approval as recommended by the Planning Commission

McQueer moved to accept GS Materials LLC permit approval as recommended by the Planning Commission. Smith seconded the motion. Roll Call Vote: Faust yes, Fromhart absent, McQueer yes, Oliver yes, Smith yes. Motion passed.

E. Review/Approval General Fund 2016-2017 Budget

Smith moved to approve the General Fund 2016-2017 fiscal year budget as amended. Oliver seconded the motion. Roll Call Vote: Faust yes, Fromhart absent, McQueer yes, Oliver yes, Smith yes. Motion passed.

F. Review/Approval WWTP 2016-2017 Budget

Smith moved to approve the WWTP 2016-2017 fiscal year budget. Oliver seconded the motion. Roll Call Vote: Faust yes, Fromhart absent, McQueer yes, Oliver yes, Smith yes. Motion passed.

G. Mowing Bid

Smith moved to accept the 2016 Mowing Bid from Jon Way. McQueer seconded the motion. Roll Call Vote: Faust yes, Fromhart absent, McQueer yes, Oliver yes, Smith yes. Motion passed.

H. Support Letter Manchester Village Grant

Smith reported he received a request from the Village of Manchester to support their grant application for work that is upstream of the bridge to clean up that area of the river. Smith explained the Village is requesting letters of support from surrounding communities. Board agreed to have the Supervisor write a letter in support of their grant application.

I. WWTP System Repair

Smith reported since the WWTP collection system was built it hasn't been maintained and there are a couple of air relief structures that have failed which require a vessel entry permit and equipment to make the repairs. Smith asked Tetra Tech to provide a proposal for the work which he included in the Board's packets. Faust reported the Township has no operation and maintenance manual for the collection system which was supposed to be provided by Tetra Tech when the system was built, and that the Township has no information on the specifications of the air relief structures. Faust stated if Tetra Tech did the work they should have the information, and is opposed to paying them \$4200 because they designed the system. Oliver agreed with Faust. McNamara reported an operation and maintenance manual is something that is typically delivered on the completion of a project, and offered to provide the Township with a proposal for the work. The Board discussed the option of obtaining more quotes but expressed concern of delaying the project that has already been a problem for the past 3 years. **Oliver moved to approve Tetra Tech's Sanitary Sewer Collection System proposal. Smith seconded the motion. Roll Call Vote: Faust no, Fromhart absent, McQueer yes, Oliver yes, Smith yes. Motion passed.**

J. Bridgewater Days Road Closure

Smith moved to approve Resolution 03-03-2016 Regarding Temporary Road Closure. Oliver seconded the motion. Roll Call Vote: Faust yes, Fromhart absent, McQueer yes, Oliver yes, Smith yes. Motion passed.

VII. CITIZEN PARTICIPATION

A resident asked if the Township is continuing to have a lot of problems with the sewer system.

VIII. ADJOURNMENT

Smith moved to adjourn the meeting at 8:51 p.m.

Respectfully submitted,
Laurie Fromhart
Bridgewater Township Clerk

APPROVED

**BRIDGEWATER TOWNSHIP
BOARD OF TRUSTEES SPECIAL MEETING
MINUTES OF MEETING
WEDNESDAY, MARCH 30, 2016**

I. CALL TO ORDER

The special meeting of the Bridgewater Township Board of Trustees was called to order by Supervisor Smith at 7:08 p.m. at Bridgewater Township Hall, 10990 Clinton Road, Manchester, MI.

Present: Supervisor Ronald Smith, Clerk Laurie Fromhart, and Trustees David Faust and Geoffrey Oliver.

Absent: Treasurer Michelle McQueer.

Also Present: Planning Commission Chair Dave Horney

Attendance: 0

II. CITIZEN PARTICIPATION

There were no public comments.

III. REVIEW AND APPROVE AGENDA

Smith moved to approve the agenda as amended reversing items A & B. Faust seconded the motion which was adopted unanimously.

IV. PRIORITY BUSINESS

A. Year End Budget Amendments

Fromhart moved approval of the yearend budget amendments for the general fund with adjustments to township supplies and expense, deputy clerk, election expense, and public safety line items. Faust seconded the motion. Roll Call Vote: Faust yes, Fromhart yes, McQueer absent, Oliver yes, Smith yes. Motion passed. Fromhart moved approval of the yearend budget amendments for the sewer fund with adjustments to grinder pump repairs, chemicals, electricity and phone service line items. Smith seconded the motion. Roll Call Vote: Faust yes, Fromhart yes, McQueer absent, Oliver yes, Smith yes. Motion passed.

B. Financials, Approve Disbursements

Oliver moved to pay the monthly disbursements from the general and sewer funds in the total amount of \$27,257.85. Smith seconded the motion. Roll Call Vote: Faust yes, Fromhart yes, McQueer absent, Oliver yes, Smith yes. Motion passed.

VII. CITIZEN PARTICIPATION

There were no public comments.

VIII. ADJOURNMENT

Smith moved to adjourn the meeting at 7:45 p.m.

Respectfully submitted,
Laurie Fromhart
Bridgewater Township Clerk

**BRIDGEWATER TOWNSHIP
BOARD OF TRUSTEES MEETING
MINUTES OF MEETING
THURSDAY, APRIL 7, 2016**

I. CALL TO ORDER

The regular monthly meeting of the Bridgewater Township Board of Trustees was called to order by Supervisor Smith at 7:06 p.m. followed by the pledge of allegiance to the flag at Bridgewater Township Hall, 10990 Clinton Road, Manchester, MI.

Present: Supervisor Ronald Smith, Clerk Laurie Fromhart, Treasurer Michelle McQueer and Trustees David Faust and Geoffrey Oliver.

Attendance: 27

II. CITIZEN PARTICIPATION

Ron Raab presented a petition to the Board on behalf of property owners of Bemis Road petitioning the WCRC, Freedom Township, and Bridgewater Township to fix or repair the bridge on Bemis Road located between Ernst Road and Schneider Road. Raab also submitted a letter to the Board from Ronnie & Dawn Wahl of Bemis Road requesting the bridge be fixed. Raab stated they have been told by the WCRC that there are insufficient funds to fix the bridge. Raab presented pictures of the Schneider Road Bridge and Waterworks bridge and asked why the Bemis Road bridge can't be fixed in the same manner with a half culvert and stone. Raab also presented pictures of the Bemis Road Bridge showing where the bridge is washed out but that the bridge is sound with no cracks. Raab expressed concern about access for emergency vehicles and asked who is going to be liable when emergency vehicles can't respond in a timely manner.

A resident asked if Bemis Road is going to be a dead end he will have to sell the farm. The resident also stated Bemis Road is a boundary road and went two years without any road maintenance because the Board voted it down.

A resident stated he has lived on Bemis Road for 20 years and the closure is a big inconvenience as well as a big safety and liability issue.

A resident stated she has lived on Bemis Road since 1983 and the bridge has been liked that since then and the WCRC hasn't taken any action until now. The resident stated she doesn't believe it's an emergency or that the structure is so compromised that local traffic can't go over it.

A resident stated he lives on Bemis Road and thought his taxes went to maintain the road not to close it and asked why the Board didn't let anyone know back in December what was going on.

Randy Clark from Salem Township stated he is life-long area resident, treasurer of the school board, and the only Republican candidate running for the 52 District. Clark stated he understands roads are a big issue and that more funding is needed at the County and State level. Clark also stated he is aware this area is dealing with the Rover Pipeline Project and is something he would like to address in Lansing to give property owners more rights.

A resident stated the Bemis Road closure is more of a hazard and is making people less safe because of the very steep hills putting people on the east end in jeopardy.

A resident stated the road closure has added real danger because of blind hills and friends are afraid to visit because of the condition of the road.

A resident stated she has lived on Bemis Road for 17 years which has seen a dwindling presence of the WCRC and have done a lot of road maintenance themselves. The resident stated you always had another direction to go but don't have another option now and it's a real safety concern and is unacceptable.

A resident stated she couldn't get medical supplies in a timely manner because of the Bemis Road closure and is very concerned.

III. APPROVAL OF MINUTES

Smith moved to approve the Board of Trustees March 3, 2016 regular meeting minutes and March 30, 2016 special meeting minutes as drafted. Oliver seconded the motion which was adopted unanimously.

IV. REVIEW AND APPROVE AGENDA

McQueer moved to approve the agenda as amended moving the Bemis Rd Bridge Discussion after WCRC Annual Meeting. Oliver seconded the motion which was adopted unanimously.

WCRC Annual Meeting

Jim Harmon Director of Operations, Doug Fuller Board Chair, and Ken Harris Assistant Superintendent of Road Maintenance presented the WCRC Annual Meeting report. Harmon presented the breakdown of the 2016 WCRC Budget and noted that most townships partner with the WCRC even though they have no obligation to fund road improvements. Harmon explained the 2016 local matching program with \$11,725 allocated for conventional local road match, and \$11,481 allocated for drainage match. Harmon noted May 20th is the commitment date for this year's 2016 local road program and that matching funds can be rolled over for one year. Harmon provided a summary of activities for 2015 and proposed 2016 local road projects and presented the 2016 Bridgewater Township Agreement for dust control. Harmon summarized the major projects the WCRC performed last year and projects to be performed this year under P.A. 283. Harmon explained Michigan's new road funding package and how funding will be phased in through 2021. Harmon stated because of the delay in funding the WCRC approved a .5 millage proposal for 4 years to be placed on the August 2nd ballot that is awaiting approval by the BOC. Harmon also reported on the Township's funding contribution summary from 2011 through 2015 with an average contribution of \$32,191.40. The Board expressed concerned that the county millage proposal earmarks 20% for non-motorized transportation initiatives. Harmon and Fuller responded to residents' questions and concerns regarding the closure of the Bemis Road Bridge.

V.E. Bemis Road Bridge Discussion

The Board responded to residents' questions and concerns and discussed the upcoming meeting scheduled on April 19th at Freedom Township hall, estimated costs to replace the Bemis Road Bridge, and partnering with the WCRC and Freedom Township on funding.

Public Safety Report

The Sheriff's Department submitted a written report to the Board on the law enforcement activities for the month of February 2016.

V. REPORTS AND CORRESPONDANCE

A. Treasurer's Report

McQueer reported she received the County's settlement report and noted Act 88 was not completely levied properly and will be added to the summer tax bill.

B. Clerk's Report

Fromhart submitted a written report to the Board. Fromhart introduced her new Deputy Clerk Char Stewart and asked the Board to adopt a resolution she prepared honoring former Deputy Clerk Judy Klager for her dedicated service to the Township. **Fromhart moved to adopt Resolution 04-07-16 To Acknowledge and Thank Outgoing Clerk Judy Klager for Her Service to Bridgewater Township. Smith seconded the motion. Roll Call Vote: Faust yes, Fromhart yes, McQueer yes, Oliver yes, Smith yes. Motion passed.** Fromhart also requested Board approval for an expenditure not to exceed \$1000 to replace the Clerk's laptop computer and printer. **Smith moved to approve the expenditure to replace the Clerk's laptop computer and printer at a cost not to exceed \$1000. Oliver seconded the motion. Roll Call Vote: Faust yes, Fromhart yes, McQueer yes, Oliver yes, Smith yes. Motion passed.**

C. Supervisor's Report

Smith reported he toured the sewer collection system with Tetra Tech representatives Brian Rubel and Joe Siwek and they located six of the seven air relief valves. Smith indicated it appears none of the air relief valves are working because they are all under water. Smith noted Tetra Tech is proceeding with their proposal to find contractors to do the work with estimated costs that will be presented to the Board at a later date.

D. Trustees' Report

Faust reported two grinder pumps have bad motors and it is cheaper to buy new pumps than repair them and requested Board approval to purchase two new grinder pumps. **Fromhart moved to purchase two new grinder pumps at a cost not to exceed \$4000. Oliver seconded the motion. Roll Call Vote: Faust yes, Fromhart yes, McQueer yes, Oliver yes, Smith yes. Motion passed.** Faust also requested Board approval to purchase new grinder pump setups. **Smith moved to approve the expenditure for two new grinder pump setups at a cost not to exceed \$8000. Oliver seconded the motion. Roll Call Vote: Faust yes, Fromhart yes, McQueer yes, Oliver yes, Smith yes. Motion passed.** Oliver reported he attended the quarterly WWCA meeting and they are still assessing the use of credit cards for the next six months because processing costs may be too high. Oliver also reported permits were done a little bit but the WWCA remains in good shape financially.

E. Written Reports

Board packets included reports from the Assessor, Zoning Administrator, and Planning Commission. Horney reported the Planning Commission received a draft zoning ordinance amendment from the Township Planner for the keeping of farm animals in the Hamlet.

VI. PRIORITY BUSINESS

A. Approve Disbursements from April 1, 2016 – April 7, 2016

Smith moved to pay the monthly bills from the general and sewer funds in the total amount of \$45,406.54. Oliver seconded the motion. Roll Call Vote: Faust yes, Fromhart yes, McQueer yes, Oliver yes, Smith yes. Motion passed.

B. Synagro Contract

Smith moved to approve Synagro Central, LLC three year contract for sludge handling. Faust seconded the motion. Roll Call Vote: Faust yes, Fromhart yes, McQueer yes, Oliver yes, Smith yes. Motion passed.

C. WWRA Added Operating Fee for New Dwelling Units

McQueer moved to table for further information. Oliver seconded the motion which was adopted unanimously.

D. 2015-2016 Audit

Smith moved to continue with an annual audit. Faust seconded the motion which was adopted unanimously.

F. WCRC Roads Discussion, Matching Funds

Smith moved to approve the 2016 Bridgewater Township Agreement with the WCRC for dust control in the amount of \$14,058.70. Faust seconded the motion which was adopted unanimously.

G. Townhall Message/Furniture

Smith moved to authorize the Clerk to purchase a new outdoor bulletin board not to exceed \$500. McQueer seconded the motion. Roll Call Vote: Faust yes, Fromhart yes, McQueer yes, Oliver yes, Smith yes. Motion passed. Oliver moved to authorize the Clerk to purchase 6 new chairs for the town hall not to exceed \$200 each. Smith seconded the motion. Roll Call Vote: Faust yes, Fromhart yes, McQueer yes, Oliver yes, Smith yes. Motion passed.

VII. CITIZEN PARTICIPATION

There were no public comments.

VIII. ADJOURNMENT

Smith moved to adjourn the meeting at 10:25 p.m.

Respectfully submitted,
Laurie Fromhart
Bridgewater Township Clerk



WASHTENAW COUNTY OFFICE OF THE SHERIFF



2201 Hogback Road ♦ Ann Arbor, Michigan 48105-9732 ♦ OFFICE (734) 971-8400 ♦ FAX (734) 973-4624 ♦ EMAIL sheriff@ewashtenaw.org

JERRY L. CLAYTON
SHERIFF

MARK A. PTASZEK
UNDERSHERIFF

April 5, 2016

Ron Smith
Bridgewater Township Supervisor
10990 Clinton Rd
Manchester, MI 48158

Dear Mr. Smith,

Attached you will find the March report for service provided by the Washtenaw County Sheriff's Office to Bridgewater Township. The report shows specific information, with comparison to previous years, for time spent by position, traffic enforcement, total calls for service (including MSP), and deputies under contract from other jurisdictions responding into Bridgewater Township.

In Summary, Bridgewater Township had 39 calls for service for the month of March. Of the 39 calls the Michigan State Police responded to 12. The Sheriff Office responded to 6 calls, 21 calls were administratively cleared this month with no police response. In general these calls are typically: BOL's (Be on the Lookout), ambulance requests transferred to Huron Valley Ambulance, cancelation of call due to other resolution, example, alarm company cancels due to home owner request.

Please contact me at kingl@ewashtenaw.org or 734-994-8104 if you should need further information or clarification or wish to have this information in electronic form.

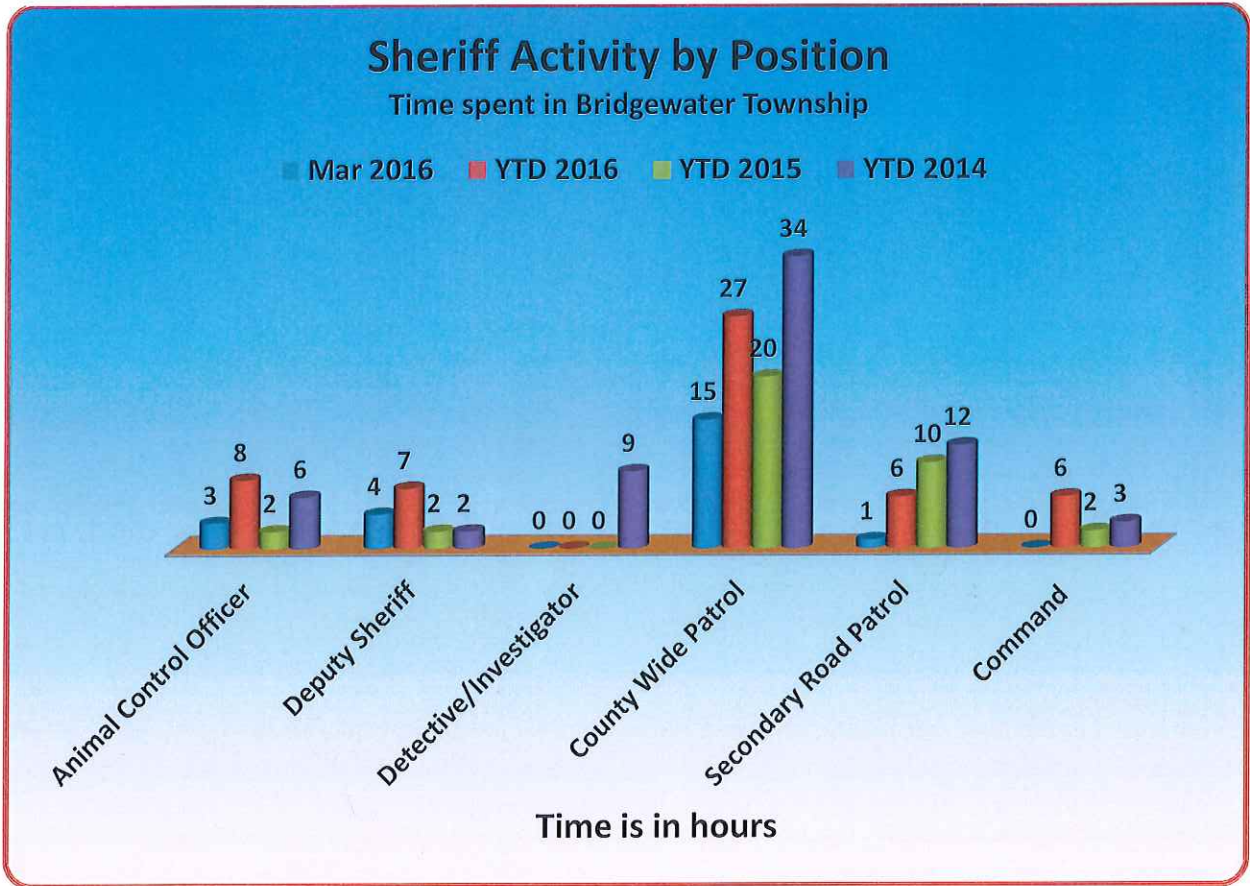
Respectfully,

Lisa King
Lieutenant Western Operations



Washtenaw County Sheriff's Office

Bridgewater Township Services—March 2016



Animal Control Officer: County funded animal control officer responding to complaints involving domestic animals or wild animals that have been domesticated.

Deputy Sheriff: Deputies under contract by another jurisdiction who perform law enforcement duties in non-contract areas.

Detective/Investigator: County Funded detectives/investigators who have additional training, experience, and equipment to perform higher level law enforcement duties.

County Wide Patrol: County funded county wide road patrol deputies who primarily perform law enforcement duties in non-contracting areas.

Secondary Road Patrol: A partially funded grant to provide traffic enforcement on secondary roads throughout the County. Respond to and investigate traffic related incidents on secondary roads. On call investigators for serious injury and fatal motor vehicle crashes.

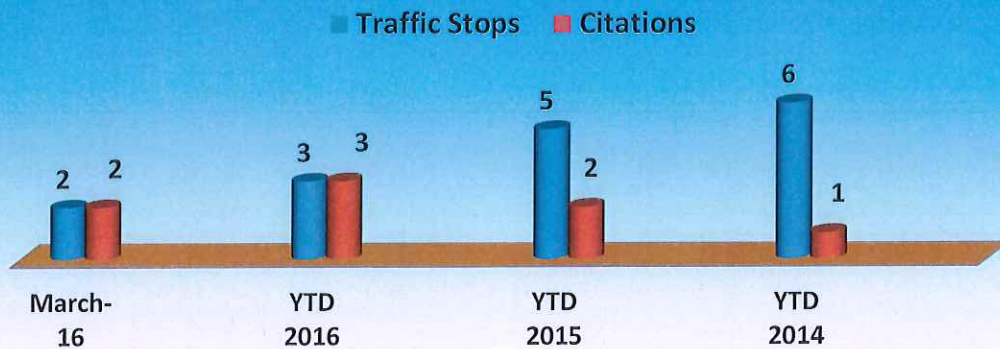
Command: Road patrol sergeants who supervise the above staff. Manages on duty staffing and coordinated on scene police response.



Washtenaw County Sheriff's Office

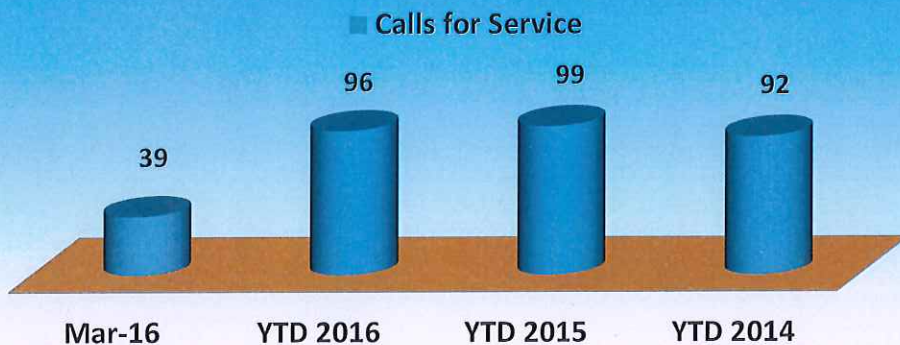
Bridgewater Township Services—March 2016

Traffic Enforcement--Bridgewater Township



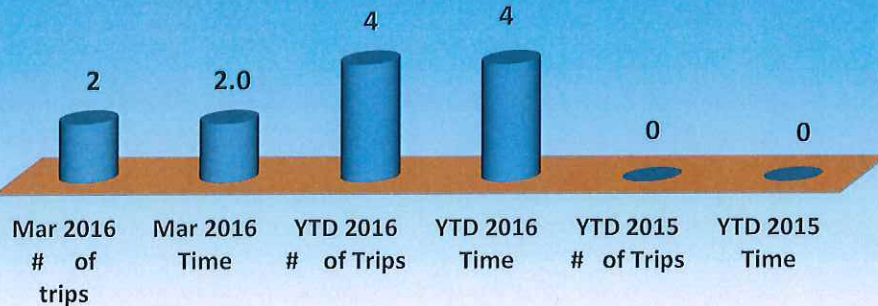
Bridgewater Township Calls for Service

Includes WCSO & MSP



Contract Deputies into Bridgewater Township

■ Manchester-Lodi Deputies



Time is in hours

Bridgewater Township

Zoning Administrator Report

April 2016

Prepared by: **Rodney C. Nanney, Zoning Administrator**

During this month, the following zoning compliance certificate and applications were received, reviewed, and acted upon. Also included is a summary of other ordinance enforcement and administration-related activities:

Zoning Compliance Certificates:

No new zoning compliance permit applications were received this month. The Township Building Inspector, Dale Behnke, let me know that building permit applications were received for two new condominium buildings in the Bridgewater Commons development (103 and 104 Joann Trail). The buildings are in compliance with the approved final site plan for this project, so no additional zoning compliance permit is required.

Ordinance administration and enforcement:

- 1. 8844 Willow Rd. (Lupascu) – outdoor storage of semi-trucks and trailers in the AG District.** In response to a telephone conversation with the owners, a follow up notice was sent to the owners on 3/29/2016 granting a 30-day extension of time to complete the removal of the remaining semi-trucks/trailers that are unlawfully stored outside. We will be checking the site on 5/3/2016.
- 2. Zoning Ordinance amendment update.** The proposed Zoning Ordinance amendment to allow for limited non-farm keeping of bees and certain farm animals in the R-3 (Hamlet Residential) zoning district has been set for a Planning Commission public hearing on 5/9/2016.

Per the Commission's request, a change recommended in the Master Plan to increase the maximum ground floor coverage/floor area ratio standards for the AG (General Agriculture) District from 5% to 10% has also been included in the set of amendments.

- 3. Telephone calls and emails.** Received several telephone calls and emails from residents, realtors, and property owners, seeking information regarding zoning requirements for various projects, including several individuals looking at various vacant lots for new home construction, a cell tower operator seeking information related to making minor changes to an existing tower on Ernst Rd., and two builders with questions about garage and pole barn requirements.

Please contact me at (734) 483-2271 or via email at Rodney@BuildingPlace.net if you have any questions about this information. Thank you.

Respectfully submitted,

Rodney C. Nanney
Zoning Administrator

Bridgewater Township Planning Commission Minutes - Approved

I. 14-Mar-16 meeting called to order 7:09 P.M. by Dave Horney

II. Roll Call

Cal Messing	Dave Horney	Mark Iwanicki
Ron Smith	Tom Wharam	

III. Citizen Participation

- Mackenzie Poet, representing Karen Poet handed out material re: a request for chickens in the hamlet.
- The packet contained permits from local municipalities

IV. Review and Approve Agenda

- Motion to approve the agenda as presented – Ron Smith
- Second to motion – Cal Messing
- Vote – unanimous

V. Approval of Minutes

- Motion to approve minutes from 8-Feb-16 as presented – Ron Smith
- Second to motion - Cal Messing
- Vote – unanimous

VI. Public Hearings

- None

VII. Old Business

A. GSM Permit

- The GS Materials permit application and variance were approved by the board
- Cal Messing will arrange a tour of the GSM gravel pit for all interested parties
- Ron Smith will work on the updates that need to be made to Ordinance 59

VIII. New Business

A. Keeping farm animals in the hamlet

- The current zoning does not allow any farm animals in non-agricultural areas
- Rodney Nanney talked about future neighbors possibly not liking the animals
- Rodney Nanney said that maybe we could have them on unplatted lots, which would be the majority of hamlet but exclude the condos
- One distinction between pets and farm animals is if the animal is kept indoors or outdoors
- Rodney Nanney suggested that there should some kind of review, i.e. the number of feet to neighbors house or property line, need a zoning permit to see the setbacks
- Mark Iwanicki talked about no free range chickens (the chickens must be constrained by a fence) due to the safety issues and no roosters due to the noise
- Rodney Nanney talked about a zoning compliance permit with a plan (a simple drawing) and a permit to help protect the owner from potential disagreements with neighbors
- Ron Smith said the township could wave the permit fees
- Dave Horney said no slaughtering, Rodney Nanney said that the lots are large enough so this may not be an issue

Tom Wharam 4/13/16 7:16 PM

Deleted: 14-Mar-16

Bridgewater Township Planning Commission Minutes - Approved

- Rodney Nanney said we should also include bees, maybe have a list of the animals that are allowed
- Horses used to be in the ordinance, formerly with a special use permit
- Rodney Nanney will put together a sample ordinance for female chickens, quail and guineahen as well as bees
- Rodney Nanney explained to Mackenzie that, if all goes well, there will be an informal review next month, a public hearing the following month, then it would go before the township board for a vote. This would be a minimum of 3 months

Tom Wharam 4/11/16 7:02 PM

Deleted: formally

IX. Communications

A. Report from Zoning Administrator – Rodney Nanney

- A report was provided and is on record

B. Report on 3-Mar-16 Board of Trustees meeting – Ron Smith

- A report was provided and is on record
- Ron Smith may have to call a special meeting to resolve budget issues

X. Informational Items

- 19-Apr-16 meeting for Bemis Rd. project

XI. Public Comment

- None

XII. Adjournment

- Next planning commission meeting is 11-Apr-16 at 7:00 P.M.
- Motion to adjourn – Dave Horney
- Second to motion – Cal Messing
- Vote – unanimous

Meeting adjourned at 8:24 P.M.

Tom Wharam 4/13/16 7:16 PM

Deleted: 14-Mar-16

Meeting date: 14-Mar-16

Page 2 of 2

I. 11-Apr-16 meeting called to order 7:00 P.M. by Dave Horney

II. Roll Call

Cal Messing	Dave Horney	Mark Iwanicki
Ron Smith	Tom Wharam	

III. Citizen Participation

- None

IV. Review and Approve Agenda

- Motion to approve the agenda as amended – Ron Smith
- Second to motion – Mark Iwanicki
- Vote – unanimous

V. Approval of Minutes

- Motion to approve minutes from 14-Mar-16 as amended – Dave Horney
- Second to motion - Cal Messing
- Vote – unanimous

VI. Public Hearings

- None

VII. Old Business

A. Keeping farm animals in the hamlet

- Dave Horney asked about the number of horses on a parcel; Rodney Nanney said that an absolute number is not given but this issue will be taken care of though the special use permit process, which would state how to handle manure, noise, etc.
- Rabbits will be added into the ordinance
- “similar small poultry” covers an other poultries; ducks will be added to the list of allowed birds
- The chickens cannot be called “pets” to skirt the number allowed
- Ostrich and emu will be listed with large animals
- Mobile structures are allowed
- The setbacks will be changed from 100’ to 50’
- Planning commision will be set up for
 - Motion to set a public hearing to discuss the ordinance to amend the zoning ordinance of Bridgewater township on 9-May-16– Ron Smith
 - Second to motion – Dave Horney
 - Vote – unanimous
- Laurie Fromhart will publish this accordingly

VIII. New Business

- None

IX. Communications

A. Report from Zoning Administrator – Rodney Nanney

- A report was provided and is on record

B. Report on 7-Apr-16 Board of Trustees meeting – Ron Smith

- A report was provided and is on record

X. Informational Items

- None

XI. Public Comment

- None

XII. Adjournment

- Next planning commission meeting is 9-May-16 at 7:00 P.M.
- Motion to adjourn – Dave Horney
- Second to motion – Ron Smith
- Vote – unanimous

Meeting adjourned at 8:22 P.M.

DRAFT

	Apr 1 - May 5, 16	Budget	\$ Over Budget
Income			
4402 · Property tax - operation	7,605	70,040	-62,435
4447 · Tax administration fee	1,747	26,000	-24,253
4448 · Tax collection fees	2,190	3,500	-1,310
4460 · Township permits	100	1,500	-1,400
4574 · Revenue sharing	0	127,547	-127,547
4601 · Fire charge collection	0	2,000	-2,000
4665 · Interest Income	0	1,500	-1,500
4672 · Other Income	779	2,000	-1,221
4675 · Metro Auth.-restricted to roads	0	2,000	-2,000
4690 · Mineral Extraction License Fees	0	1,000	-1,000
4700 · Election Reimbursement	0	2,500	-2,500
Total Income	12,421	239,587	-227,166
Gross Profit	12,421	239,587	-227,166
Expense			
5101000 · Township Board			
5101703 · Trustee salary	400	4,800	-4,400
5101727 · Township supplies & expenses	50	600	-550
5101770 · Conferences & Training	0	750	-750
Total 5101000 · Township Board	450	6,150	-5,700
5171000 · Supervisor			
5171703 · Supervisor Salary	1,301	15,607	-14,306
5171727 · Supervisor Expense	0	1,000	-1,000
5209000 · Assessor			
5209705 · Board of Review expenses	40	1,500	-1,460
5209805 · Assessor Wages	1,725	20,700	-18,975
5209810 · Assessor Expense	290	4,000	-3,710
Total 5209000 · Assessor	2,055	26,200	-24,145
Total 5171000 · Supervisor	3,356	42,807	-39,451
5173000 · Other General Government			
5173715 · Social Security	366	5,400	-5,034
5173801 · Attorney & Consulting Expenses	0	5,000	-5,000
5173802 · Audit fees	0	1,000	-1,000
5173803 · Board Transition Cost	0	1,000	-1,000
5173811 · Membership fees & dues	0	2,000	-2,000
5173890 · Newsletter (non-recyc)	0	250	-250
5173895 · Website Administrator	25	500	-475
5173912 · Insurance & Bonds	178	6,000	-5,822
5173955 · Miscellaneous	0	200	-200

	<u>Apr 1 - May 5, 16</u>	<u>Budget</u>	<u>\$ Over Budget</u>
Total 5173000 · Other General Government	569	21,350	-20,781
5215700 · Clerk			
5173900 · Printing & publishing	0	1,000	-1,000
5174810 · Deputy Clerk	184	1,000	-816
5191727 · Election expense	342	5,000	-4,658
5215703 · Clerk salary	1,351	16,214	-14,863
5215727 · Clerk supplies & expense	157	3,200	-3,043
Total 5215700 · Clerk	2,034	26,414	-24,380
5253700 · Treasurer			
5253701 · Tax Collection Expense	0	3,000	-3,000
5253703 · Treasurer salary	1,468	17,615	-16,147
5253704 · Deputy Treasurer Wages	0	1,000	-1,000
5253727 · Treasurer supplies & expenses	8	2,000	-1,992
Total 5253700 · Treasurer	1,476	23,615	-22,139
5265000 · Building & Grounds			
5265728 · Maintenance & Utilities	435	4,000	-3,565
5265925 · Cemetery care	405	4,000	-3,595
5265980 · Building improvement & equipmen	53	4,000	-3,947
Total 5265000 · Building & Grounds	893	12,000	-11,107
5301800 · Public Safety			
5339727 · Fire protection billing expense	21,734	50,000	-28,266
Total 5301800 · Public Safety	21,734	50,000	-28,266
5400700 · Planning & zoning			
5400701 · Planning			
5400727 · Planning comm. wage & expense	330	4,000	-3,670
5400801 · PC Attorney Fees	0	500	-500
5400803 · Planning consultant - on-going	0	6,000	-6,000
Total 5400701 · Planning	330	10,500	-10,170
5410726 · Zoning			
5410704 · Land Division Processing Fees	100	1,500	-1,400
5410727 · Zoning ad.wage & expense	0	7,500	-7,500
Total 5410726 · Zoning	100	9,000	-8,900
Total 5400700 · Planning & zoning	430	19,500	-19,070
5440000 · Public works			
5440846 · Road Improvements	0	30,000	-30,000
5440847 · Drains at large	0	4,000	-4,000

	Apr 1 - May 5, 16	Budget	\$ Over Budget
5440852 · Street lighting	295	3,200	-2,905
Total 5440000 · Public works	295	37,200	-36,905
5500000 · Contingencies	0	551	-551
Total Expense	31,237	239,587	-208,350
Net Income	-18,816	0	-18,816

Type	Date	Num	Name	Split	Amount
Check	04/11/2016	autopay	Frontier	Phone Service	-39.35
Check	04/28/2016	autopay	DTE Energy	Electricity	-1,306.97
Check	05/05/2016	1170	DuBois-Cooper Associates	Equipment	-7,716.02
Check	05/05/2016	1171	Tetra Tech Inc.	Engineer	-757.50
Check	05/05/2016	1173	Jon Way	Maintenance	-165.00
Check	05/05/2016	1172	Alexander Chemical Corporation	Chemicals	-903.50
					-10,888.34

	Bond - Sewer		
	Apr 1 - May 5, 16	Budget	\$ Over Budget
Ordinary Income/Expense			
Income			
Connection Fees			
Easement Fee	0.00	0.00	0.00
Grinder Pump Reimb + 10%	0.00	0.00	0.00
Inspection Fee	0.00	0.00	0.00
Total Connection Fees	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
Customer Finance Charge	0.00	0.00	0.00
Operation Maintenance Income	0.00	0.00	0.00
Special Assessment Revenue	5,384.05	48,327.00	-42,942.95
Total Income	<u>5,384.05</u>	<u>48,327.00</u>	<u>-42,942.95</u>
Gross Profit	5,384.05	48,327.00	-42,942.95
Expense			
Collection System			
Billing			
Billing Clerk	0.00	0.00	0.00
Office Supplies	0.00	0.00	0.00
Total Billing	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
Forcemains -Flushing & Disposal	0.00	0.00	0.00
Grinder Pump repairs	0.00	0.00	0.00
Miss Dig Locator Service	0.00	0.00	0.00
WWTP Operations Committee	0.00	0.00	0.00
Total Collection System	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
Insurance	0.00	0.00	0.00
Legal & Professional			
Audit	0.00	0.00	0.00
Engineer	0.00	0.00	0.00
Legal Fees	0.00	0.00	0.00
Total Legal & Professional	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
Miscellaneous Expense	0.00	0.00	0.00
New Equipment	0.00	0.00	0.00
Treatment Plant			
Building & Grounds Maintenance	0.00	0.00	0.00
Chemicals	0.00	0.00	0.00
Diesel Fuel/Propane	0.00	0.00	0.00
Electricity	0.00	0.00	0.00
Equipment Repairs	0.00	0.00	0.00
Generator Maintenance Contract	0.00	0.00	0.00

	Bond - Sewer		
	Apr 1 - May 5, 16	Budget	\$ Over Budget
NPDES Permit	0.00	0.00	0.00
Phone Service	0.00	0.00	0.00
Plant Operator	0.00	0.00	0.00
Sludge Handling & Disposal	0.00	0.00	0.00
Supplies	0.00	0.00	0.00
Total Treatment Plant	0.00	0.00	0.00
Total Expense	0.00	0.00	0.00
Net Ordinary Income	5,384.05	48,327.00	-42,942.95
Other Income/Expense			
Other Expense			
Contingencies/Reserves	0.00	7,894.00	-7,894.00
Washtenaw Cty Debt Svc			
Accounting Charges	0.00	100.00	-100.00
Agent Fees	0.00	500.00	-500.00
Interest	2,467.50	4,583.00	-2,115.50
Principal	35,250.00	35,250.00	0.00
Total Washtenaw Cty Debt Svc	37,717.50	40,433.00	-2,715.50
Total Other Expense	37,717.50	48,327.00	-10,609.50
Net Other Income	-37,717.50	-48,327.00	10,609.50
Net Income	-32,333.45	0.00	-32,333.45

	Operation - Sewer		
	Apr 1 - May 5, 16	Budget	\$ Over Budget
Ordinary Income/Expense			
Income			
Connection Fees			
Easement Fee	250.00	0.00	250.00
Grinder Pump Reimb + 10%	8,566.00	0.00	8,566.00
Inspection Fee	150.00	0.00	150.00
Total Connection Fees	8,966.00	0.00	8,966.00
Customer Finance Charge	0.00	1,000.00	-1,000.00
Operation Maintenance Income	8,400.00	100,800.00	-92,400.00
Special Assessment Revenue	0.00	0.00	0.00
Total Income	17,366.00	101,800.00	-84,434.00
Gross Profit	17,366.00	101,800.00	-84,434.00
Expense			
Collection System			
Billing			
Billing Clerk	52.00	1,200.00	-1,148.00
Office Supplies	0.00	200.00	-200.00
Total Billing	52.00	1,400.00	-1,348.00
Forcemains -Flushing & Disposal	0.00	1,000.00	-1,000.00
Grinder Pump repairs	0.00	10,000.00	-10,000.00
Miss Dig Locator Service	2,000.00	2,500.00	-500.00
WWTP Operations Committee	0.00	1,200.00	-1,200.00
Total Collection System	2,052.00	16,100.00	-14,048.00
Insurance	1,097.64	1,300.00	-202.36
Legal & Professional			
Audit	0.00	150.00	-150.00
Engineer	757.50	1,500.00	-742.50
Legal Fees	0.00	2,000.00	-2,000.00
Total Legal & Professional	757.50	3,650.00	-2,892.50
Miscellaneous Expense	0.00	25.00	-25.00
New Equipment	0.00	10,000.00	-10,000.00
Treatment Plant			
Building & Grounds Maintenance	0.00	2,000.00	-2,000.00
Chemicals	903.50	4,000.00	-3,096.50
Diesel Fuel/Propane	0.00	1,000.00	-1,000.00
Electricity	1,306.97	15,000.00	-13,693.03
Equipment Repairs	350.00	7,500.00	-7,150.00
Generator Maintenance Contract	0.00	1,200.00	-1,200.00

Operation - Sewer

	Apr 1 - May 5, 16	Budget	\$ Over Budget
NPDES Permit	0.00	2,000.00	-2,000.00
Phone Service	39.35	400.00	-360.65
Plant Operator	0.00	31,200.00	-31,200.00
Sludge Handling & Disposal	0.00	3,500.00	-3,500.00
Supplies	0.00	300.00	-300.00
Total Treatment Plant	2,599.82	68,100.00	-65,500.18
Total Expense	6,506.96	99,175.00	-92,668.04
Net Ordinary Income	10,859.04	2,625.00	8,234.04
Other Income/Expense			
Other Expense			
Contingencies/Reserves	0.00	2,625.00	-2,625.00
Washtenaw Cty Debt Svc			
Accounting Charges	0.00	0.00	0.00
Agent Fees	0.00	0.00	0.00
Interest	0.00	0.00	0.00
Principal	0.00	0.00	0.00
Total Washtenaw Cty Debt Svc	0.00	0.00	0.00
Total Other Expense	0.00	2,625.00	-2,625.00
Net Other Income	0.00	-2,625.00	2,625.00
Net Income	10,859.04	0.00	10,859.04

Type	Date	Num	Name	Split	Amount
Check	04/11/2016	autopay	Frontier	Phone Service	-39.35
Check	04/28/2016	autopay	DTE Energy	Electricity	-1,306.97
Check	05/05/2016	1170	DuBois-Cooper Associates	Equipment	-7,716.02
Check	05/05/2016	1171	Tetra Tech Inc.	Engineer	-757.50
Check	05/05/2016	1173	Jon Way	Maintenance	-165.00
Check	05/05/2016	1172	Alexander Chemical Corporation	Chemicals	-903.50
					-10,888.34

ORDINANCE NO. 67-_____

AN ORDINANCE TO AMEND THE ZONING ORDINANCE OF BRIDGEWATER TOWNSHIP, WASHTENAW COUNTY, MICHIGAN.

Pursuant to the authority vested in it by the Michigan Zoning Enabling Act, Public Act 110 of 2006, as amended, Bridgewater Township, Washtenaw County, Michigan ordains the following amendments to Articles 3.0 (Dimensional Standards), 4.0 (Land Use Table), and 5.0 (Use Standards) of the Bridgewater Township Zoning Ordinance No. 67 to increase the maximum floor area ratio and ground floor coverage requirements in the AG (General Agriculture) District, and to allow for limited non-farm keeping of bees and farm animals in the R-3 (Hamlet Residential) District.

BRIDGEWATER TOWNSHIP, WASHTENAW COUNTY, MICHIGAN, HEREBY ORDAINS:

SECTION 1.

Article 3.0 (Dimensional Standards), Section 3.101 (Table of Dimensional Standards by District) is hereby amended to increase the maximum floor area ratio (FAR) in the AG (General Agriculture) zoning district from 0.05 to 0.10, and to increase the maximum ground floor coverage (GFC) in the AG District from five percent (5%) to ten percent (10%), as follows:

Section 3.101 Table of Dimensional Standards by District.

Standards		Districts	Additional Provisions
		AG	
Maximum Building Height (feet)	Feet	35	Section 3.201
	Stories	2.5	
Lot Standards (per unit)	Minimum Width (feet)	250	Section 3.202
	Minimum Area (acres or square-feet)	2.0 acres	
Yard / Setback Standards (feet)	Minimum Front Yard	75	Section 3.203 Section 3.204
	Minimum Side Yard	30	
	Minimum Rear Yard	50	
Minimum Separation Between Principal Buildings (feet)			
Maximum Floor Area Ratio (FAR)		0.05 0.10	
Maximum Ground Floor Coverage (GFC)		5% 10%	
Minimum Gross Floor Area of a Principal Detached Dwelling (square-feet)		1,000	
Maximum Net Dwelling Unit Density (units per acre)		1.0	Section 3.202

SECTION 2.

Article 4.0 (Land Use Table), Section 4.02 (Table of Permitted Uses by District) is hereby amended to insert non-farm raising or keeping of animals and bees as an accessory use and private riding arenas and boarding stables as a special use in the R-3 District, as follows:

Section 4.02 Table of Permitted Uses by District.

USES	DISTRICTS								USE STANDARDS	
	Rural		Residential		Business			Other		
	CP	AG	R-2	R-3	BCD	C	LI	PSP		
RURAL USES										
Non-Farm Raising or Keeping of Bees and Non-Equine Farm Animals		P		A						Section 5.112
Private Riding Arena or Boarding Stable		P		S						Section 5.108

SECTION 3.

Article 5.0 (Use Standards), Section 5.108 (Private Riding Arenas and Stables) is hereby amended to reduce the minimum lot area standard from ten (10) to six (6) acres, as follows:

Section 5.108 Private Riding Arenas and Stables.

All non-commercial or not-for-profit stables and facilities for the private rearing, schooling and housing of horses, mules, ponies and similar equine riding animals shall be subject to the following:

1. A dwelling in a principal building for the property owner or operator of the private stable shall be located on the same or an adjoining lot.
2. The lot area shall not be less than ~~ten (10)~~ **six (6)** contiguous acres under single ownership.
3. All stable and arena buildings, corrals, and similar structures shall be set back a minimum of 50 feet from all lot boundaries.
4. Such facilities or areas shall not be located within any required front yard setback, and shall be located no closer to any road rights-of-way than rear building line of any dwelling on the subject lot.
5. A fenced area for pasturing, exercising or riding such animals may extend to the front, rear or side lot lines. All such animals shall be kept confined within a fenced area when not being ridden, under harness, or when not in their stable and arena building, corral or similar structure.
6. The facility shall be constructed and maintained in accordance with the Right to Farm Act and Generally Accepted Agricultural Management Practices (GAAMPS)

from the Michigan Department of Agriculture, so that odors, dust, noise, and drainage shall not constitute a nuisance or hazard to adjoining lots and uses.

- 7. There shall be no commercial activity, other than incidental sales not unusual for a residential use.
- 8. Approval of a certificate of zoning compliance shall be required per Section 1.07 (Certificates of Zoning Compliance). No formal site plan shall be necessary unless otherwise required by this Ordinance.

SECTION 4.

Article 5.0 (Use Standards) is hereby amended to insert a new Section 5.112 (Non-Farm Keeping of Bees and Non-Equine Farm Animals) as follows:

Section 5.112 Non-Farm Keeping of Bees and Non-Equine Farm Animals.

Non-farm beekeeping or raising and keeping of a limited number of poultry, rabbits, cows, sheep, goats, llamas and similar farm animals shall be subject to the following:

A. General Standards.

The following general standards shall apply to the non-farm raising and keeping of farm animals or bees on a lot in the AG (General Agriculture) and R-3 (Hamlet Residential) zoning districts:

- 1. Structures for housing of bee colonies or hives or for the keeping of farm animals shall conform to the requirements of Section 6.03 (Accessory Structures). Fences associated with the keeping of farm animals shall conform to the requirements of Section 6.17 (Fences and Walls).
- 2. The number of farm animals or beehives and all activities associated with keeping of farm animals or bees on the lot shall be consistent with the Generally Accepted Agricultural Management Practices (GAAMPS) established by the Michigan Department of Agriculture.
- 3. All facilities shall be so constructed and maintained that odor, dust, noise, and drainage shall not constitute a nuisance or hazard to adjoining premises.
- 4. This Section shall not apply to the raising and keeping of horses, mules, ponies and similar equine riding animals as regulated by Section 5.108 (Private Riding Arenas and Stables); or to the keeping of animals part of an active farm operation maintained in conformance with the Right to Farm Act and Generally Accepted Agricultural Management Practices (GAAMPS) established by the Michigan Department of Agriculture.
- 5. Approval of a certificate of zoning compliance shall be required per Section 1.07 (Certificates of Zoning Compliance).

B. Hamlet Residential (R-3) District Standards.

The following additional standards shall apply to non-farm raising and keeping of farm animals or bees on a lot as an accessory use in the R-3 District:

Gross Lot Area	Maximum Number Allowed by Lot Area			
	Bee Colonies or Hives	Rabbits	Chicken, Ducks, Guinea Hen, Quail or Similar Small Poultry	Cow, Sheep, Goat, Alpaca, Llama, Ostrich, Emu or Similar Farm Animal
1.0 acre or less	Two (2)	Eight (8) adults	Eight (8) adults	None
1.01 to 3.99 acres	Five (5)	Twelve (12) adults	Twelve (12) adults	One (1) animal
4.0 or more acres	Eight (8)	25 adults	25 adults	One (1) cow, plus two (2) other animals

1. All such activities shall be clearly incidental to the principal use of the property as a single-family dwelling, and shall be prohibited within any subdivision plat, condominium or site condominium development.
2. Poultry shall be limited to hens (females). Peafowl, geese, turkeys, and other large poultry shall be prohibited.
3. All poultry and other farm animals shall be kept in a structure or within a fenced enclosure at all times.
4. Structures and fenced enclosures for the non-farm keeping of bees or non-equine farm animals under this Section shall be located outside of the required yard setback areas for the R-3 District, and shall be set back a minimum of 50 feet from dwellings on adjacent lots.

SECTION 5.

All ordinances and amendments thereto that are in conflict with this Ordinance are hereby repealed.

Draft Date: April 12, 2016

SECTION 6.

Adopted by the Township Board of Trustees for Bridgewater Township, Washtenaw County, Michigan, at a meeting of the Township Board held on the _____ day of _____, 20____. This ordinance shall become effective on the eighth (8th) day following publication thereof.

Dated: _____, 20____ _____
Ron Smith, Supervisor

Laurie Fromhart, Clerk

CERTIFICATION

The above Ordinance No. _____ was adopted at a meeting of the Bridgewater Township Board of Trustees on the _____ day of _____, 20____; and published in the _____, a newspaper of general circulation in Bridgewater Township, Washtenaw County, Michigan on the _____ day of _____, 20____.

Laurie Fromhart, Clerk
Bridgewater Township Clerk

To: Ronald Smith, Township Supervisor

From: Joe Siwek, Brian Rubel, Tetra Tech

Date: May 3, 2016

Subject: Sanitary Sewer System Repairs

Background

In February of 2016, the Township requested Tetra Tech perform an inspection of the low-pressure sanitary sewer collection system located along Austin, Parker and Kaiser Roads as shown on Figure 1 below. Township staff believe several of the existing air release valves along the existing 3- and 4-inch force mains have or may be failing and need to be repaired or replaced. These valves are located in manholes and are designed to remove excess air that accumulates in high points along the force main.

Inspections

Site inspections were performed on April 4, 2016. The construction record drawings indicated there are seven air release valves in the system and all but one of these was located and accessed for inspection. All 6 of the air release manholes that were inspected were completely full of water. Figure 2 below is an example of what was observed in the field.



Figure 2 – Air release manhole on Boettner Road

When the air release valves were visible above or just below the water line in the flooded manholes, they were covered in scale and appeared to have begun to corrode. Based on the condition of the few valves that were visible through the water, it is very likely that the valves that could not be seen are in similar condition. When air release valves fail, then can be stuck in an "open" state where sewage may leak out.

Conclusions and Recommendations

Considering the condition of the valves that were seen, it is unlikely that the existing valves could be repaired. We recommend the Township replace the valves. The recommended repair work will consist of pumping out each of the structures and replacing each of the existing air relief valve assemblies to the existing 2" screwed gate valve tapped onto the main. The valve will then be installed per the attached Air Relief Manhole detail. APCO ARI model D-025 combination air relief valves are recommended. A product cut sheet has been attached to this memo detailing the features of this valve, which includes a reinforced nylon body and all stainless steel parts and fittings. These valves are locally supplied by Kennedy Industries and they quoted a cost of \$1,315 per valve.

The next step would be to reach out to several contractors with experience in installing and replacing these types of valves in manholes for similar applications to provide a price to complete the work. The suggested scope of work would include pumping out each manhole and replacing the existing air release valve and salvaging the existing valves to the owner. The contractor would also be asked to locate the structure that could not be found during the inspection at the end of the private drive north of Austin Road.

Kennedy has indicated that the items are typically held in stock and would take approximately 1 week to procure the valves upon receipt of an approved purchase order. It is estimated the repairs would take approximately 3-5 days, however that may not be consecutive work days to maintain flexibility in completing the project. The opinion of cost to make these repairs is approximately \$12,000-13,000.

Once the new valves have been installed it is recommended that the structures be inspected and pumped out annually, to inspect the condition of the valves and perform the manufacturer's suggested maintenance.

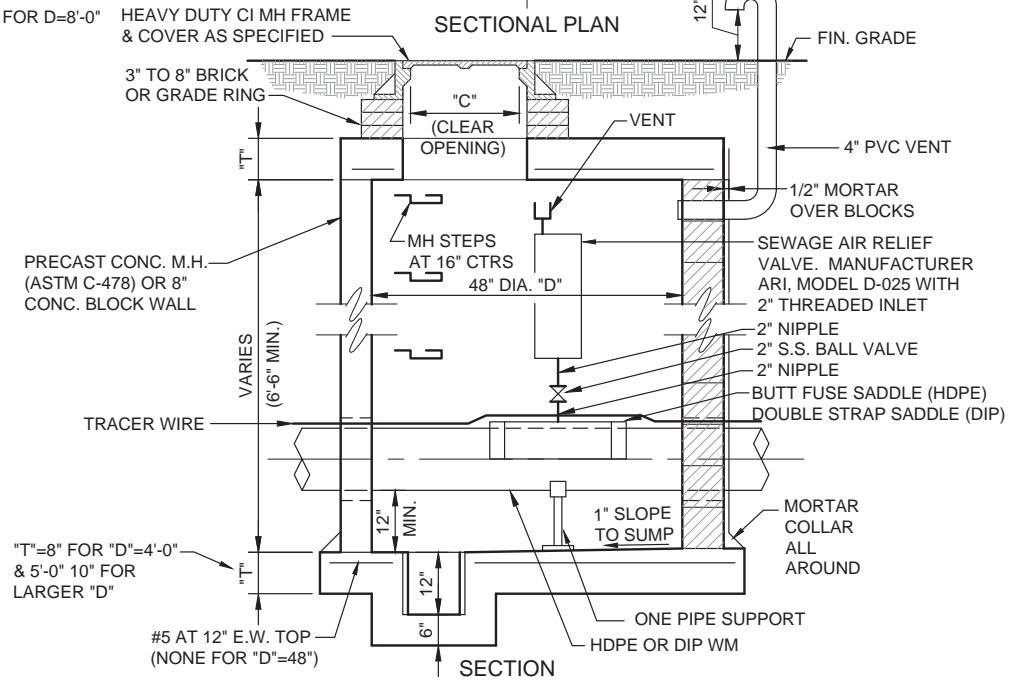
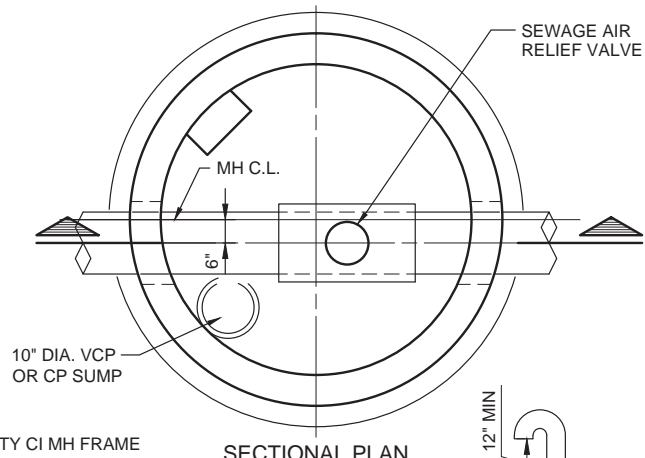
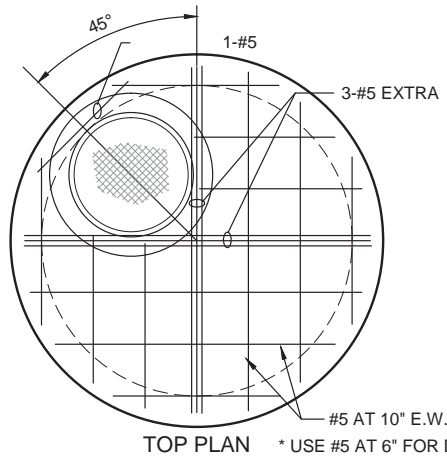


Legend

- Air Release Manholes
- Force Mains

Figure 1 - Force Main and Air Relief Manholes for Bridgewater Township

Bridgewater Township



NOTE: ALL PLUMBING MATERIALS TO BE NON-CORROSIVE,
ALL FITTINGS SHALL BE STAINLESS STEEL.

* USE DOGHOUSE MANHOLE
ON HDPE FORCE MAIN

AIR RELIEF STRUCTURE

D-025 150 PSI

D-025 ST 150 PSI

D-025 STST 150 PSI



Combination Air Valve for Wastewater - Short Version

Description

The D-025 Combination Air Valve combines an air & vacuum orifice and an air release orifice in a single body. The valve is specifically designed to operate with liquids carrying solid particles such as wastewater and effluents. The combination air valve discharges air (gases) during the filling or charging of the system, admits air into the system during drainage and releases accumulated air (gases) from the system while it is operating under pressure. The valve's unique design enables the separation of the liquid from the sealing mechanism and assures optimum working conditions.

Applications

- Wastewater & water treatment plants.
- Wastewater and effluent water transmission lines.

Operation

The air & vacuum component discharges air at high flow rates during the filling of the system and admits air into the system at high flow rates during drainage and at water column separation.

High velocity air will not blow the float shut. Water will lift the float which activates the sealing of the valve.

At any time during system operation, should internal pressure of the system fall below atmospheric pressure, air will enter the system.

The smooth discharge of air reduces pressure surges and other destructive phenomena.

The intake of air in response to negative pressure protects the system from destructive vacuum conditions and prevents damage caused by water column separation. Air entry is essential to efficiently drain the system.

The air release component releases entrapped air in pressurized systems.

Without air valves, pockets of accumulated air may cause the following hydraulic disturbances:

- Restriction of effective flow due to a reduction of the flow area. In extreme cases this will cause complete flow stoppage.
- Obstruction of efficient hydraulic transmission due to air flow disturbances.
- Acceleration of cavitation damages.

- Increase in pressure transients and surges.
- Internal corrosion of pipes, fittings and accessories.
- Dangerous high-energy bursts of compressed air.
- Inaccuracies in flow metering.

As the system fills and is pressurized, the combination wastewater air valve functions in the following stages:

1. Air/gas is discharged by the valve
2. When the liquid level reaches the valve's lower portion, the lower float is lifted, pushing the sealing mechanism to its sealing position.
3. The entrapped air is confined in a pocket between the liquid and the sealing mechanism. The air pressure is equal to the system pressure.
4. Increases in system pressure compress the trapped air in the upper section of the conical chamber. The conical shape assures the height of the air gap. This enables separation of the liquid from the sealing mechanism.
5. Entrapped air (gas), accumulating at peaks and along the system, rises to the top of the valve and displaces the liquid in the valve's body.
6. When the liquid level lowers to a point where the float is no longer buoyant, the float drops, unsealing the rolling seal. The air release orifice opens and allows part of the air that accumulated in the upper portion of the valve to be released to the atmosphere.
7. Liquid enters the valve. The float rises, pushing the rolling seal to its sealing position. The remaining air gap prevents the wastewater from fouling the mechanism.

When internal pressure falls below atmospheric pressure (negative pressure):

1. The floats will immediately drop down, opening the air & vacuum and air release orifices.
2. Air will enter into the system.

Main Features

- Working pressure range: 3 - 150 psi.
- Testing pressure: 250 psi.
- Maximum working temperature: 140° F.
- Maximum intermittent temperature: 194° F.
- The unique design of the valve prevents contact between the wastewater and the sealing mechanism by creating an air gap at the top of the valve. These features are a

- The conical body shape: designed to maintain the maximum distance between the liquid and the sealing mechanism and still obtain minimum body length.
 - Independent spring-guided linkage between the lower float/rod assembly and the upper float sealing mechanism: allows free movement of the float and rod. Vibrations and movement of the lower float due to turbulence will not unseal the upper float sealing mechanism.
 - The Rolling Seal Mechanism: less sensitive to pressure differentials than a direct float seal. It accomplishes this by having a comparably large orifice for a wide pressure range (up to 150 psi).
 - Funnel-shaped lower body: designed to ensure that residue wastewater matter will fall back into the system and be carried away by the main pipe.
- All inner metal parts made of stainless steel. Float made of composite materials.
 - 1 1/2" threaded discharge outlet enables connection to a vent hose/ pipe.
 - Dynamic design allows for high velocity air discharge while preventing premature closure.
 - 1/4" ball valve releases trapped pressure and drains the valve body prior to maintenance and for back-flushing during maintenance.

Valve Selection

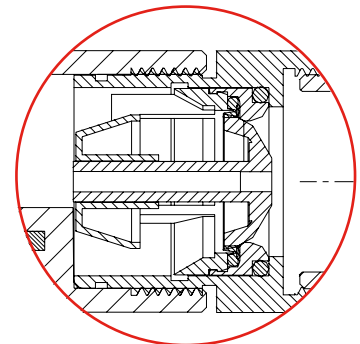
- These valves are available in 2", 3", and 4" with a NPT male threaded connection or flanged, standard upon request.
- Valve is manufactured in stainless steel, also available in reinforced nylon.
- With a One-way, Out-only attachment, allows for air discharge only, prevents air intake.
- With a Vacuum Breaker, In-only attachment, allows for air intake only, prevents air discharge.
- With a Non-Slam discharge-throttling attachment, allows for free air intake, throttles air discharge.

Note

- The D-025 air valve is intended for use with raw wastewater. For use with aggressive liquids, please consult with our application engineers or with the marketing dept.
- For best suitability, it is recommended to send the fluid chemical properties along with the valve request.
- Upon ordering, please specify: model, size, working pressure, thread and flange standard and type of liquid.

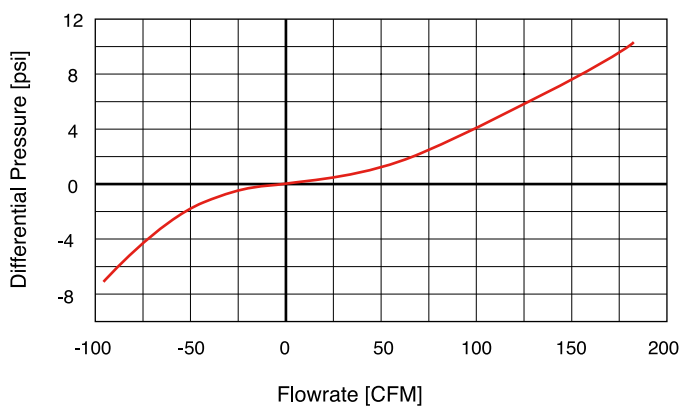
D-020 Non-Slam Single Orifice Add-on Component Data Table

Inlet Size	Discharge Orifice	Total NS Area	NS Orifice	Switching Point	Flow at 5.8 psi
2", 3", 4"	1.5 Inch	0.02 Sq.In.	0.16 Inch	Spring loaded Normally closed	10.3 CFM

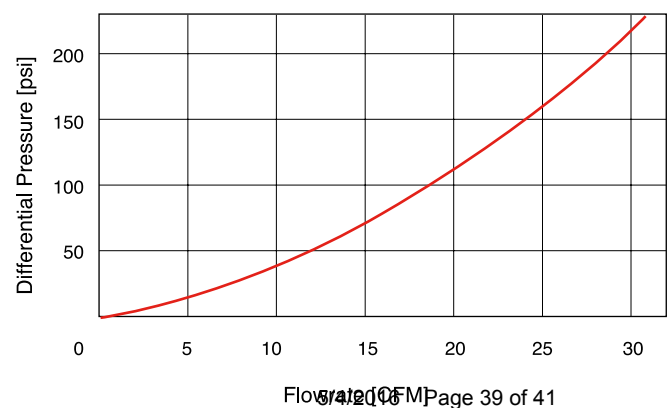


D-025-NS

AIR & VACUUM FLOWRATE



AIR RELEASE FLOWRATE



DIMENSIONS AND WEIGHTS

Inlet Size	Dimensions Inch		Connection C	Weight Lbs.			Orifice Area Sq.in	
	A	B		PA	ST	STST	Air Rel.	A / V
2" Threaded	10.2	17.9	1½" NPT Female	8.4	31.7	31.7	0.018	1.246
2" Flanged	10.2	18.1	1½" NPT Female	9.2	35.7	35.7	0.018	1.246
3" Flanged	10.2	18.1	1½" NPT Female	11.9	-	-	0.018	1.246
4" Flanged	10.2	18.1	1½" NPT Female	13.2	40.5	40.5	0.018	1.246

PARTS LIST AND SPECIFICATION

No. Part	Material
1. Camlock Connection	Polypropylene
2. Rolling Seal Assembly	Polypropylene / Reinforced Nylon + E.P.D.M. + ST ST
3. Float	Foamed Polypropylene
4. Clamping Stem	Polypropylene / Reinforced Nylon
5. Body	Reinforced Nylon / Stainless Steel SAE 316
6. Domed Nut	Stainless Steel SAE 316
7. O-Ring	BUNA-N
8. Stopper	Polypropylene
9. Spring	Stainless Steel SAE 316
10. Washer	Stainless Steel SAE 316
11. Stem	Stainless Steel SAE 316
12. Body	Reinforced Nylon / Stainless Steel SAE 316
13. Clamp	PA Body Reinforced Nylon + Stainless Steel SAE 316 ST ST Body Stainless Steel SAE 316
14. O-Ring	BUNA-N
15. Float	Foamed Polypropylene
16. Ball Valve 1/4 "	Stainless Steel
17. Washer	Stainless Steel SAE 316
18. Base	Reinforced Nylon / Stainless Steel SAE 316

