



**TOWN OF NEWMARKET, NEW HAMPSHIRE
TOWN COUNCIL AGENDA**

**WEDNESDAY, MARCH 28, 2018, 7:00PM
NEWMARKET TOWN HALL COUNCIL CHAMBERS**

- 1. Pledge of Allegiance**
- 2. Election of Officers and Adoption of Town Council Rules**
 - a. Chair
 - b. Vice Chair
 - c. Adoption of Town Council Rules for 2018-2019 – Resolution 49-2014/2015
 - d. Town Council Committee Assignments
 - i. Macallen Dam
 - ii. Highway Safety
 - iii. Budget Committee
 - iv. Energy & Environment Advisory Committee
 - v. CIP
 - vi. Conservation Commission
 - vii. Economic Development
 - viii. Planning Board
- 3. Public Forum** *(Public Forum is an opportunity for the public to address the Town Council. All comments should be addressed to the Chair of the Council. No person will be allowed to speak longer than five (5) minutes.)*
- 4. Public Hearing – None**
- 5. Town Council to Consider Acceptance of Minutes**
 - a. March 14, 2018 Non-Public Meeting Minutes
 - b. March 14, 2018 Regular Meeting Minutes
- 6. Report of the Town Administrator**
- 7. Committee Reports**
- 8. Old Business**

a. Resolutions/Ordinances in the 2nd Reading

- i. **Resolution #2017/2018-35** – *Authorizing the Town Administrator to enter into a Performance Contract Agreement with Energy Efficient Investments for HVAC, Lighting and Building Envelope Improvements to the Community Center.*
- ii. **Resolution #2017/2018-38** – *The purchase of six (6) Motorola Mobile Radios for the Fire Department.*
- iii. **Resolution #2017/2018-39** – *Purchase 2018 Ford F350 4X4 Truck with Plow for Public Works Department.*
- iv. **Resolution #2017/2018-40** – *Authorizing the Town Administrator to withdraw \$25,000.00 from the Buildings and Improvements Capital Reserve Fund for required infrastructure repairs/upgrades to the Community Center.*
- v. **Resolution #2017/2018-41** – *Authorizing the Town Administrator to enter into an agreement with Municipal Leasing Consultants of Grand Isle, Vermont for a 10-year municipal lease for capital repairs/upgrades to the Community Center.*

b. Resolutions/Ordinances in the 3rd Reading – None

c. * Items Laid on the Table –

- i. **Resolution #2015/2016-52** – *Resolution Authorizing the Designation of a portion of Rt. 152 as an Economic Recovery Zone* (This Resolution is tabled from the June 15, 2016 Council Meeting pending Planning Board action).

9. New Business/Correspondence

a. Town Council to Consider Nominations, Appointments and Elections –

- i. **Henry Smith** – Macallen Dam Committee – Term Expires March 2019
- ii. **Michael Pelczar** – Cemetery Trustee – Term Expires March 2021
- iii. **Drew Kiefaber** – Alternate Conservation Commission – Term Expires March 2021
- iv. **James Drago** – ZBA Member – Term Expires March 2021
- v. **Philip Nazzaro** – Veterans Memorial Trust Committee – Term Expires March 2021

b. Resolutions/Ordinances in the 1st Reading - None

c. Correspondence to the Town Council

d. Closing Comments by Town Councilors

e. Next Council Meeting–April 4, 2018

10. Adjournment

*Items will remain on the table unless an unanimous vote of the Council removes said item.

CHARTERED JANUARY 1, 1991

FOUNDED DECEMBER 15, 1727



TOWN OF NEWMARKET, NEW HAMPSHIRE
By the Newmarket Town Council

Resolution 49-2014/2015

Adopting the Rules of Council Proceedings

WHEREAS Section 3.2 of the Town Charter requires the Town Council to adopt rules of Council Proceedings.

NOW THEREFORE LET IT BE RESOLVED BY THE NEWMARKET TOWN COUNCIL,

That the Town Council adopts their 2018-2019 Rules of Council Proceedings as appended to this resolution.

First Reading: *March 28, 2018*

Second Reading: *March 28, 2018*

Approval: *March 28, 2018*

Approved: _____
Chair Newmarket Town Council

A True Copy Attest: _____
Terri Littlefield, Town Clerk



TOWN *of* NEWMARKET, NEW HAMPSHIRE

2018-2019 TOWN COUNCIL RULES FOR PROCEEDINGS

1. Council Meetings

All meetings of the Town Council shall be public as required by RSA 91-A.

Business meetings shall be held on the first and third Wednesday of each month at 7:00 p.m., unless otherwise provided by ordinance or resolution. When Wednesday is a holiday, the regular meeting shall be held on a Wednesday following at the same hour unless otherwise provided by motion. The public portions of Council meetings shall end by 10:00 p.m., unless a majority of the Council present determines that continuing the meeting shall allow the necessary business of the meeting to be completed. In order to proceed beyond 10:00 p.m., a motion to do so shall be made and a vote shall be taken. The motion shall pass to the extent two-thirds (2/3) of the votes cast. Notwithstanding the foregoing, non-public sessions of the Council may continue after 10:00 p.m.

Business Meetings are for the purpose of deliberating and voting upon Town business. Agendas will generally follow the order of business established in Section 5 below and shall include on the agenda an opportunity for citizen comment related to the matter(s) included on the agenda and/or pertaining to the business of the Town Council.

Special Meetings are for the purpose of deliberating and voting upon Town business at times other than during a regularly scheduled Business Meeting. Such meetings are "special" because the Chair, or upon request of the Town Administrator, or five (5) Council Members by written request submitted to the Chair, can call them on a minimum of 24 hours' notice. Agendas will generally follow the order of business established in Section 5 limited to one or more items requiring Council action and shall include on the agenda an opportunity for citizen comment specifically related to the matter(s) included on the agenda.

Special Meetings may be scheduled for any day provided sufficient notice is afforded in accordance with provisions of State law.

Workshop Meetings are for the purpose of the Council receiving information about Town business in an informal setting during which no formal action can be taken. The workshop agenda format is intended to encourage in-depth presentations by Town Boards, Commissions, Committees and/or staff (including consultants engaged for purposes of advising the Council), and detailed questioning and brainstorming by Council Members. The Council may discuss the material freely without following formal rules of parliamentary procedure, subject to the direction of the presiding officer. Although formal action may not be taken during Workshop Meetings, the presiding officer may poll Council Members during the meeting to determine the general consensus of the Council in order to bring matters back for consideration at future meetings. Non-Public Meetings are held to discuss only certain items specified in State law during which the public cannot attend. Non-Public Meetings shall be properly noticed and State law pertaining to the appropriateness and necessity of holding such meetings shall be strictly adhered to in all cases.

Non-Public meetings are typically scheduled as necessary, before or after other Council meetings.

Consultation with Legal Counsel/Collective Bargaining Strategy or Negotiation meetings are held solely for purposes of receiving legal counsel and/or for collective bargaining matters relating to strategy or negotiations during which the public cannot attend. These sessions are typically scheduled as necessary, before or after other Council meetings.

The place of the meetings shall be the Council Chambers at the Town Hall.

A quorum of the Council for the transaction of any business shall be four (4) of the members currently in office. A majority of those members present may adjourn the meeting to another time or date.

2. Presiding Officer

The Chairman shall be the presiding officer at all Council meetings. He/She shall take the chair precisely at the hour appointed for the meeting and call the members to order. In the absence or disability of the Chairman, the Vice-chairman shall preside and act as Chairman during such absence or disability.

3. Chairman Pro Tem

In case of the absence of both the Chairman and the Vice Chairman, the Recording Secretary shall call the Council to order and call the roll of the members. If a quorum is found to be present, the Council shall choose one of its members to act as Chairman pro tem by a plurality of votes until the Chairman or Vice-Chairman appears.

4. Recording Secretary

The Recording Secretary shall be ex-officio Recording Secretary of the Council and shall keep minutes of the meetings and perform such other and further duties, as may be ordered by the presiding officer or Council. The Recording Secretary shall record the names of the members present and coming in after the call to order. It shall be sufficient for the Recording Secretary to record special and non-public meetings by written form. Not more than 5 business days, excluding weekends and national and state holidays, the Recording Secretary shall make available a copy of the minutes of the previous meetings to include regular, special and non-sealed non-public meetings. In the absence of the Recording Secretary, the presiding officer shall appoint an acting recording secretary during such absence that shall tape record the meeting and take minutes.

5. **Order of Business**

The business of all business meetings and workshops of the Council shall be transacted in the following order unless the Council, by a vote of at least two-thirds (2/3) of the votes cast, shall suspend the rules and change the order.

Business Meetings:

1. Pledge of Allegiance
2. Public Forum
3. Public Hearing
4. Town Council to Consider Acceptance of Minutes
5. Report of the Town Administrator
 - a. Monthly Department Heads Report
6. Committee Reports
7. Old Business
 - a. Ordinances and Resolutions in the 2nd Reading
 - b. Ordinances and Resolutions in the 3rd Reading
 - c. Items Laid on the Table
8. New Business/Correspondence
 - a. Town Council to Consider Nominations, Appointments and Elections
 - b. Ordinances and Resolutions in the 1st Reading
 - c. Correspondence to the Town Council
 - d. Closing Comments by Town Councilors
9. Adjournment

6. **Ordinances and Resolutions**

- a. Ordinances - Any Ordinance to be considered by the Council other than those to be enacted for purposes of addressing emergency circumstances as specified in the Town Charter shall be initiated and acted upon in accordance with the requirements established herein.

- i. A proposed Ordinance shall appear on a meeting agenda for a first reading after which it may be referred to a Workshop Meeting, if deemed necessary, and/or a future Public Hearing date shall be set.
 - ii. After a Public Hearing relating to a proposed Ordinance has been held and testimony allowed in accordance with these rules, the proposed Ordinance shall be brought before the Council for a second reading during the same meeting, together with any and all recommendations for passage, rejection, referral to a workshop, or to a third reading.
 - iii. Any proposed Ordinance submitted for consideration by the Council, may be amended and/or enacted by a majority roll call vote in conjunction with the second and/or subsequent readings.
 - iv. If a proposed Ordinance is extensively amended following the second reading and the Council wishes further review, or additional time is needed for the public to express its opinion on the issue, it may be held for a third reading, on a simple majority vote of Council Members present.
 - v. Unless otherwise provided, each Ordinance approved by the Council shall become effective upon its passage, after it has been duly advertised within 7 business days of the Council meeting at which time the ordinance was adopted.
 - vi. The Town Clerk shall certify that the amendments are incorporated into the original ordinance with the proper reference to the amended ordinance number and date.
- b. Resolutions - Any Resolution to be considered by the Council shall typically be initiated and acted upon in accordance with these rules above. Resolutions subject to public hearings will also be subject to the following:
- i. A proposed Resolution shall appear on a meeting agenda for a first reading after which it may be referred to a Workshop Meeting, if deemed necessary, and/or a future Public Hearing date shall be set, if necessary. If no workshop or Public Hearing is necessary, then the Resolution will be referred to the next regular business meeting.
 - ii. After the proposed Resolution has been presented at the required public hearing, if necessary, it shall then be brought before the Council for a second reading the same meeting, together with any and all recommendations, for passage, rejection, referral to a workshop or other meeting.
 - iii. If a proposed Resolution requiring a public hearing is extensively amended following the public hearing and the Council wishes further review, or additional time is needed for the public to express its opinion on the issue, it may be held and referred for action at a future meeting, on a simple majority vote of Council Members present.
- c. Ordinances and Resolutions may not be reconsidered by a motion. Ordinances or Resolutions may be rescinded by submitting a new Ordinance^[SFI] or Resolution.

7. **Meeting Protocol**

No person will be allowed to speak unless and until recognized by the Chair.

No Councilor will be allowed to address an agenda item twice before each Councilor wishing to be recognized has been recognized once.

No person will be allowed to respond out of order to any statement by any other person.

All comments will be addressed to the Chair.

The Chair reserves the right to rule persons, including Councilors, out of order for violating this Resolution, as well as any other applicable statute, ordinance, resolution, or Charter provision.

Any person ruled out of order three times at one meeting will be asked to leave the meeting.

Motions will be entertained at workshops only under extraordinary circumstances. Motions will only be entertained under new business only under extraordinary circumstances. Any matter discussed under new business that the Council wishes to consider further will be referred to the next available workshop.

8. **Filing with the Town Clerk**

Per Section 3.8.A of the Town Charter any ordinance or resolution may be introduced by any member at any regular or special meeting of the Council. Upon introduction of any ordinance, the Town Clerk shall distribute a copy to each Councilor and to the Town Administrator shall file a reasonable number of copies in the office of the Town Clerk, and post a copy in such other public places as the Council may designate.

In addition, copies of ordinances, resolutions and documents to come before the Council for consideration will be given to the Town Administrator's office by noon three (3) working days preceding the day on which the Council meets. All Town Council packets shall be made available for pick up on the Friday before the scheduled business meeting and workshop at the Town Hall.

9. **Motion to be Stated by the Recording Secretary**

Any Council member may ask the Recording Secretary to state the motion before the vote. The mover without the consent of the member seconding it may not withdraw a motion.

10. **Voting**

Each member present when a question is put shall vote either aye or nay by voice vote. If a member abstains, he/she shall give the reason for abstaining. All voting shall be by roll call vote except votes on procedural matters.

11. **Conflict of Interest**

Any member who has a financial interest, direct or indirectly, in any planning or existing contract, job, work or service to be performed by the Town or voluntary sale to the Town of any land, materials, supplies, equipment or other property shall make full disclosure of such interest to the Council prior to deliberating any such matter or transaction.

The member, or if a member's family member, as defined by Section 7.3 (B) of the Town Charter is financially interested in such matters or transactions shall not vote nor advise on nor otherwise participate in the Council's consideration of such matter or transaction.

12. **Anonymous Communications**

Unsigned communications shall not be introduced in Council meetings nor shall the Council entertain any review, discussion or action upon unsigned communications.

13. **Permission to Address the Council**

To encourage and allow ongoing input and feedback from citizens, Regular, Special and Workshop meetings shall include on the agenda an opportunity for citizens to address the Council. In addition to public hearings that may be scheduled for public comment on specific matters, the Public Forum will ensure citizens have the opportunity to speak to all other items on a meeting agenda and/or matters pertaining to the business of the Council.

- i. Speakers shall be residents of the Town of Newmarket, property owners in the Town of Newmarket, and/or designated representatives of recognized civic organizations or businesses located in the Town of Newmarket. Any other individuals wishing to address the Council shall require suspension of the rules.
- ii. Speakers shall address their comments to the presiding officer and the Council as a body and not to any individual member.
- iii. Speakers shall first recite their name and address for the record.
- iv. Each speaker shall be provided a single opportunity for comment, limited to five (5) minutes with the five (5) minutes beginning after the obligatory statement of name and address by the speaker.
- v. Citizen Forum shall not be a two-way dialogue between speaker(s), Council Member(s), and/or the Town Administrator. Any deviation of this rule shall require a suspension of the rules.

The presiding officer shall preserve strict order and decorum for and by all speakers appearing before the Council.

14. **To Suspend the Rules**

These rules may be temporarily suspended by a vote of two-third (2/3) of the votes cast.

15. **To Amend Rules**

These rules may be amended, or new rules adopted, by a majority vote of all members of the Council present. Any proposed amendments to these rules shall be submitted in writing at a business meeting, and shall be placed on the agenda under the order of "New Business". This requirement shall be waived only by unanimous consent with a recorded vote of all members.

16. **Roberts Rules of Order**

Roberts Rules of Order shall be used to decide all parliamentary questions not specifically provided for in these rules.

17. **Committees**

Budget Committee: As provided for in RSA 32:15, I(b) *Budget Committee Membership*, "One member of the governing body of the municipality...shall be appointed by their respective board to serve for a term of one year and until their successor are qualified. Each such member may be represented by an alternate member designated by their respective board, who shall, when sitting, have the same authority as the regular member."

Planning Board: As provided for in RSA 637:2, 1-b(a) *Planning Board*, The council shall appoint "A member of the town council...of the town selected by the town council."

The Council shall have the power to appoint such advisory committees, as he/she deems necessary to serve him/her in an advisory capacity. The first-named person on each advisory committee shall serve as its chairman.

17. **Councilor Development**

All newly elected Council members shall, within the first year of their election, attend at least one workshop or educational seminar for local officials offered by the New Hampshire Municipal Association, Local Government Center, or comparable local agency.

All other Councilors are also encouraged to attend at least one workshop/seminar during each remaining term year with particular emphasis upon the Right-To-Know Law, municipal budgeting, and/or other matters pertaining to local government.

18. **Annual Review and Adoption**

Consistent with Section 3.2 of the Town Charter, this Resolution shall be in effect until the next organizational meeting of the Council, at which time, the Council shall renew, amend, and re-adopt or otherwise act on this Resolution.

19. **Councilor Stipend**

Consistent with Resolution #2009/2010-08, Pertaining to the Disbursement of Town Council Member's Annual Stipend, Councilors stipend shall begin with the start of the Town's fiscal year with payment made in July, September, December and March.

Town Council Committee Representatives

(Current Appointees)

Macallen Dam

Dale Pike

Highway Safety

Amy Thompson

Budget Committee

Toni Weinstein
Casey Finch, Alternate

Energy & Environment Advisory Committee

Toni Weinstein

CIP

Gretchen Kast
Dale Pike, Alternate

Conservation Commission

Casey Finch

Economic Development

Amy Thompson
Kyle Bowden, Alternate

Planning Board

Amy Burns
Gretchen Kast, Alternate

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5 **TOWN OF NEWMARKET, NEW HAMPSHIRE**
6 **TOWN COUNCIL REGULAR MEETING**

7 **MARCH 14, 2018 7:00 PM**

8 **TOWN COUNCIL CHAMBERS**
9

10
11 **PRESENT:** Council Chairman Dale Pike, Council Vice Chairman Toni Weinstein, Councilor Amy Thompson,
12 Councilor Kyle Bowden, Councilor Casey Finch, Councilor Amy Burns

13
14 **EXCUSED:** Councilor Gretchen Kast

15
16 **ALSO PRESENT:** Town Administrator Steve Fournier
17

18 **AGENDA**
19

20 Chairman Dale Pike welcomed everyone to the March 14, 2018 Newmarket Town Council Meeting and
21 called the meeting to order at 7:08 pm, followed by the Pledge of Allegiance.
22

23 Vice-Chair Weinstein made a motion to seal the minutes of the Non-Public Meeting, which was seconded
24 by Councilor Burns.
25

26 Town Administrator Fournier polled the Council and the motion to seal the minutes of the Non-Public
27 Meeting was approved by a vote of 6-0.
28

29 **PUBLIC FORUM**
30

31 Chairman Pike opened the Public Forum at 7:09 pm. As no one from the public came forward, Chairman
32 Pike closed the Public Forum at 7:09 pm.
33

34 **PUBLIC HEARING – None**
35

36 **TOWN COUNCIL TO CONSIDER ACCEPTANCE OF MINUTES**
37

38 **Acceptance of the Minutes of the Regular Meeting of February 21, 2018**
39

40 Vice-Chair Weinstein made a motion to approve the minutes of the Regular Meeting of February 21, 2018,
41 which was seconded by Councilor Thompson.

Town Administrator Fournier polled the Council and the minutes of the Regular Meeting of February 21, 2018 were approved by a vote 6-0.

REPORT OF THE TOWN ADMINSTRATOR

Town Administrator Steve Fournier stated that the **Town Council Chambers Renovation** was pretty much finished, with just a few technical items with regard to the wiring remaining. The new Council Chambers dais was completed.

Town Administrator Fournier said he wanted to let the Council know they were looking at some new **Meeting Agenda/Meeting Management Software**. He said the IT Director, the Facilities Director, and his Executive Assistant met with a firm called to help improve the flow process of Department Head items submitted into the Council agenda. He explained that the software package would create the agenda from the submitted documents and would be cloud-based. He said it would archive better, allow the public to more easily follow discussions, and would be available on the web. He said it would make it easier for councilors with no more PDF links, and councilors would have talk and voting buttons on their computers. He said on the backend everything would be streamlined and video improvements would allow users to click on a topic and automatically go to the correct point in the meeting without scrolling through.

Discussion: Vice-Chair Weinstein said she had looked at one of the links and the software seemed user-friendly and comprehensive. Town Administrator Fournier said councilors would see a different interface. Chairman Pike said he felt there was an incredible amount of redundancy and unnecessary information in the packets, and that it should be key and relevant points with the ability to check in more depth if needed. Town Administrator Fournier said it would include a staff report with a link to all the backup. He said they would also be able to include non-public items and block them to the public.

Town Administrator Fournier said as far as **Additional Software**, there was a meeting for MUNIS Financial Software with Titan Technology. He said this would be a 9-month rollout and was continuing.

Town Administrator Fournier said everyone was present for **Election Day**, and said he wanted to thank the election teams, the Town Clerk, and all the poll workers for their efforts. He said they had a good turnout despite the weather, and also wanted to thank the Director of Public Works for his tremendous efforts with the last 3 storms. He pointed out that it was not the Town's choice to hold the election during a storm, but that the Attorney General had made it clear elections could not be postponed. Vice-Chair Weinstein said she wanted to thank the Police Department for providing rides to the polls and the Department of Public Works for the cleanup.

Town Administrator Fournier said he would like to take the opportunity to congratulate councilor-elect Dumont and welcome him to the Council. He said he also wanted to take the opportunity to thank Councilor Thompson for her service.

Chairman Pike asked where things stood with the parking meeting with the Newmarket Business Association, and asked that the item be added to the active list after the Town Administrator Report.

Town Administrator Fournier said he had met with a Business Associate representative and provided her with their report, which she planned to share with the Business Association and get back to him. Chairman Pike said the Council had talked about May 7th as the Joint Town Council/School Board meeting, and said the School Board would be discussing that at their meeting and it would then be locked in or modified.

Town Administrator Fournier said Wednesday April 11th would be the goal-setting session with Primex & Company. He said it was an off-week when they did not have a meeting. He also reported that the proposal for sharing another individual for the Facilities Director would be withdrawn, and the School would be hiring their own individual.

Chairman Pike stated that he had a list of councilors and their current committees, and felt it might be good to review before the next organizational meeting. Vice-Chair Weinstein asked that the Energy and Environment Advisory Committee be added to the list, and Chairman Pike asked that the list be updated and forwarded to councilors.

COMMITTEE REPORTS

Vice-Chair Weinstein reported on the *Energy and Environment Advisory Committee* meeting of March 6, 2018. She said they had a presentation from Elijah Garrison of Revision Energy to talk about clean energy solutions, including solar projects, for municipalities. She said they also talked about Energize 360, a residential program for multiple communities to solarize and be more energy efficient. She said they talked about a program there called Energy Saves, which is a coalition of energy providers in the State. She stated that Facilities Director Greg Maries would be at their next meeting.

OLD BUSINESS

ORDINANCES AND RESOLUTIONS IN THE 2ND READING -- None

ORDINANCES AND RESOLUTIONS IN THE 3RD READING -- None

ITEMS LAID ON THE TABLE

Resolution #2015/2016-52 *Authorizing the Designation of a Portion of Route 152 as an Economic Recovery Zone.* (This Resolution is tabled from the June 15, 2016 Council Meeting pending Planning Board action.)

NEW BUSINESS /CORRESPONDENCE

TOWN COUNCIL TO CONSIDER NOMINATIONS, APPOINTMENTS AND ELECTIONS

Library Trustee

Candidate: *Joan DeYoreo-- Term expires March 2021*

Vice-Chair Weinstein made a motion to approve the nomination of *Joan DeYoreo--Term expires March 2021* as a *Library Trustee*, which was seconded by Councilor Bowden.

Town Administrator Fournier polled the Council and the nomination of *Joan DeYoreo* as a *Library Trustee* was approved by a vote of 6-0.

Cemetery Trustee

Candidate: *Richard Alperin – Term expires March 2021*

Vice-Chair Weinstein made a motion to approve the nomination of *Richard Alperin – Term expires March 2021* as a *Cemetery Trustee*, which was seconded by Councilor Thompson.

Town Administrator Fournier polled the Council and the nomination of *Richard Alperin* as a *Cemetery Trustee* was approved by a vote of 6-0.

Veterans Memorial Trust Committee

Candidate: *Nancy Eaton – Term expires 2021*

Vice-Chair Weinstein made a motion to approve the nomination of *Nancy Eaton – Term expires 2021* as a member of the *Veterans Memorial Trust Committee*, which was seconded by Councilor Bowden.

Comment: Councilor Bowden said he very much appreciated the family's service and was impressed by the letter submitted with the application.

Town Administrator Fournier polled the Council and the nomination of *Nancy Eaton* as a member of the *Veterans Memorial Trust Committee* was approved by a vote of 6-0.

Veterans Memorial Trust Committee

Candidate: *David Wade – Term expires 2021*

Vice-Chair Weinstein made a motion to approve the nomination of *David Wade – Term expires 2021* as a member of the *Veterans Memorial Trust Committee*, which was seconded by Councilor Burns.

Town Administrator Fournier polled the Council and the nomination of *David Wade* as a member of the *Veterans Memorial Trust Committee* was approved by a vote of 6-0.

ORDINANCES AND RESOLUTIONS IN THE 1ST READING

Resolution #2017/2108-35 Authorizing the Town Administrator to enter into a Performance Contract Agreement with Energy Efficient Investments for HVAC, Lighting and Building Envelope Improvements to the Community Center. (TA Requests the Suspension of Rules)

Chairman Pike read Resolution #2017/2108-35 Authorizing the Town Administrator to enter into a Performance Contract Agreement with Energy Efficient Investments for HVAC, Lighting and Building Envelope Improvements to the Community Center in full.

Vice-Chair Weinstein made a motion to suspend the rules which was seconded by Councilor Burns.

175
176 Discussion: Town Administrator Fournier said there would be a number of requests to suspend the rules
177 this evening. He said they had found through the audit that some systems were in serious need of
178 immediate replacement. He said there was a crack in the heater exchange of a furnace at the Community
179 Center and one furnace was down, with no heat in one area. He said the Council had previously approved
180 hiring Energy Efficient Investments (EEI) to do the audit. Councilor Bowden asked when the Council would
181 receive the report on the status of the Town Facilities, and Town Administrator Fournier said in April.

182
183 Vice-Chair Weinstein said she had some concerns about the Performance Contract as it was new and
184 relatively complicated to digest. Town Administrator Fournier said if the Council did not want to vote this
185 evening they could withdraw their motion to suspend the rules. He said he was requesting this because
186 they had failing equipment and he did not have the money in the budget. Chairman Pike felt it was worth
187 having more conversation about the issue.

188
189 Councilor Thompson said she did have some questions, but that they could always be forwarded to
190 another councilor for the next meeting. She said Facilities Director Marles would find more things broken,
191 but asked whether they would all be emergencies. She asked why the Facilities Director was not present,
192 and Town Administrator Fournier said he was on vacation this week. Chairman Pike said he was certainly
193 in favor of waiting until the Facilities Director was present, and Town Administrator Fournier
194 recommended they then withdraw the motion.

195
196 Chairman Pike said when the Performance Contract was proposed, he understood that it was something
197 that would fund itself out of energy improvements. He said on page 24 of the packet under
198 Comprehensive Option for the Community Center, the lighting looked like a winner with a savings of
199 \$2,100/year. But he said the furnace, at a savings of \$750/year, would never pay for the \$113,000 cost.
200 Town Administrator Fournier said that was why they needed to withdraw \$25,000 from the Buildings &
201 Improvements Capital Reserve Fund. He said the annual net payment of \$14,050 on the Capital Lease
202 would go back to pay for the \$149,794 they would need to borrow to do the project. Chairman Pike said
203 annual savings were listed as \$3,940, and the project was not bid out due to the performance contract.
204 He said the project did not come close to being funded out of energy improvements and he felt it was a
205 Capital cost.

206
207 Vice-Chair Weinstein withdrew her motion to suspend the rules and Councilor Burns withdrew her
208 second.

209
210 **Resolution #2107/2018-36 Authorizing the Town Administrator to enter into an Agreement with**
211 **Siemens Industry, Inc. to Replace a Failed Gas-Fired Unit Heater in the Police Department. (TA Requests**
212 **the Suspension of Rules)**

213
214 Town Administrator Fournier read Resolution #2107/2018-36 Authorizing the Town Administrator to enter
215 into an Agreement with Siemens Industry, Inc. to Replace a Failed Gas-Fired Unit Heater in the Police
216 Department in full.

Vice-Chair Weinstein felt this resolution was simple and straightforward and made a motion to suspend the rules, which was seconded by Councilor Burns. Town Administrator Fournier polled the Council and the motion to suspend the rules was approved by a vote of 6-0.

Town Administrator Fournier explained that there was a cracked heat exchanger and the proposal was from the Town HVAC contractor.

Town Administrator Fournier polled the Council and Resolution #2107/2018-36 Authorizing the Town Administrator to enter into an Agreement with Siemens Industry, Inc. to Replace a Failed Gas-Fired Unit Heater in the Police Department was approved by a vote of 6-0.

Resolution #2017/2018-37 Authorizing the Town Administrator to enter into an Agreement with Siemens Industry, Inc. to Replace a Failed Gas-Fired Unit in the Public Works Garage. (TA Requests the Suspension of Rules)

Chairman Pike read Resolution #2017/2018-37 Authorizing the Town Administrator to enter into an Agreement with Siemens Industry, Inc. to Replace a Failed Gas-Fired Unit in the Public Works Garage in full.

Vice-Chair Weinstein made a motion to suspend the rules which was seconded by Councilor Thompson. Town Administrator Fournier polled the Council and the motion to suspend the rules was approved by a vote of 6-0.

Vice-Chair Weinstein made a motion to approve Resolution #2017/2018-37 Authorizing the Town Administrator to enter into an Agreement With Siemens Industry, Inc. to Replace a Failed Gas-Fired Unit in the Public Works Garage, which was seconded by Councilor Burns.

Town Administrator Fournier polled the Council and Resolution #2017/2018-37 Authorizing the Town Administrator to enter into an Agreement With Siemens Industry, Inc. to Replace a Failed Gas-Fired Unit in the Public Works Garage was approved by a vote of 6-0

Resolution #2017/2018-38 The Purchase of Six (6) Motorola Mobile Radios for the Fire Department.

Town Administrator Fournier read Resolution #2017/2018-38 The Purchase of six (6) Motorola Mobile Radios for the Fire Department in full.

Resolution #2017/2108-39 Purchase a 2018 Ford F350 4X4 Truck with Plow for Public Works Department.

Chairman Pike read Resolution #2017/2108-39 Purchase a 2018 Ford F350 4X4 Truck with Plow for Public Works Department in full.

Resolution #2017/2108-40 Authorizing the Town Administrator to Withdraw \$25,000 from the Building and Improvements Capital Reserve Fund for Required Infrastructure Repairs/Upgrades to the Community Center.

Town Administrator Fournier read Resolution #2017/2108-40 Authorizing the Town Administrator to withdraw \$25,000 from the Building and Improvements Capital Reserve Fund for Required Infrastructure Repairs/Upgrades to the Community Center in full.

Resolution #2017/2018-41 Authorizing the Town Administrator to enter into an Agreement with Municipal Leasing Consultants of Grand Isle, Vermont for a 10-Year Municipal Lease for Capital Repairs/Upgrades to the Community Center.

Chairman Pike read Resolution #2017/2018-41 Authorizing the Town Administrator to enter into an Agreement with Municipal Leasing Consultants of Grand Isle, Vermont for a 10-Year Municipal Lease for Capital Repairs/Upgrades to the Community Center in full.

CORRESPONDENCE – None

CLOSING COMMENTS

Chairman Pike presented a clock as a token of the Town's appreciation to Councilor Amy Thompson for her long service, and thanked her for her the diligent work she had done.

Vice-Chair Weinstein updated the Council on the Mindful Monday event of last week. She said she and Councilor Finch presented at the Stone Church, and a summary was sent to all councilors. She felt the feedback was very positive from the approximately 25 people present who recommended this be done more often. Councilor Finch felt it was a nice way to connect with the community and said there was great interest for it to continue for the future, especially leading up to Town Meeting Day.

Vice-Chair Weinstein said she had also set the date for this year's Roadside Cleanup for Sunday April 29th from 1:00-4:00 pm. She said they would meet at the Elementary School at 12:45 pm, and that bags and gloves would be provided by the Department of Public Works. Councilor Finch said he would present the information to the Conservation Commission at their next meeting.

NEXT MEETING: The next Regular Town Council Meeting will be held on March 28, 2018 in the Town Council Chambers.

ADJOURNMENT

Chairman Pike adjourned the meeting at 8:03 pm.

Respectfully submitted,

Patricia Denmark, Recording Secretary



TOWN OF NEWMARKET, NEW HAMPSHIRE
OFFICE of the TOWN ADMINISTRATOR

REPORT OF THE TOWN ADMINISTRATOR
March 28, 2018

FY18 February Report: As of the end of February, we have expended 69% of the total operating budget, which puts us slightly higher than last year at this point in time. Snow has affected the budget, with our salt and contracted services lines being over expended. In addition, our Public Works overtime line was close to being over expended. We will monitor for the remainder of the year.

We have collected 96% of our estimated revenues for the year, which is \$2million more than last year.

I am attaching a copy of the financial to this report.

Waste Water Award: The Town of Newmarket, NH was selected as the “overall winner” of the American Council of Engineering Companies of New Hampshire (ACEC-NH) 2018 Engineering Excellence Awards for the upgrade project recently completed on the Town’s wastewater treatment facility (WWTF). The annual ACEC awards program recognizes engineering projects which “epitomize quality, innovation, value, and client satisfaction.”

The winning project is a significant step, as part of a comprehensive effort by the Environmental Protection Agency (EPA) and the New Hampshire Department of Environmental Services (NHDES), toward improving water quality in the NH Great Bay Estuary by reducing the total nitrogen (TN) concentrations in effluent of the region’s WWTFs. Since startup of the Newmarket WWTF in the summer of 2017, the facility has achieved lower effluent TN concentration levels than required by the state and federal mandates.

I wanted to congratulate the Environmental Services Director and his staff.

Goal Setting: I have scheduled a goal setting session with Primex on April 11 at 6PM.

New Councilor and Council Orientation: I would like to welcome Councilor Dumont and go over a quick Council orientation.

ONGOING PROJECTS

***This section will not be reported on orally to the Town Council at the meeting, but will use this as a chance to update on any developments in ongoing projects. ***

Downtown Parking: I provided the NBA with a copy of the last parking study that was conducted. I am waiting for them to review it and get back to me.

Town Administrator Review: The annual review of the Town Administrator begins on May 1, with the distribution of the annual evaluation, which is due the end of May. You will then meet with me in June to review.

Financial Software: We continue to meet to work on implementation.

Homeland Security Grant: The Emergency Management Team will be meeting on March 27 to kick this off.

Respectfully Submitted,

A handwritten signature in blue ink, appearing to read "Stephen R. Fournier", is written over a light blue rectangular background.

Stephen R. Fournier
Town Administrator

Town of Newmarket, New Hampshire
Preliminary Expense Report^{ab}
For the Period Ended February, 2018

Fiscal Year 2018							Fiscal Year 2017					
Function	Account Number	ACCOUNT DESCRIPTION	Budget	Month to Date Transactions	Year to Date Transactions	Balance Year	Percent Used	Budget	Month to Date Transactions	Year to Date Transactions	Balance Year	PercentUsed
Town Council			19,200.00	2,956.25	16,190.75	3,009.25	84%	19,300.00	3,541.25	18,534.50	7655.00	96%
Town Administrator			192,872.00	16,395.18	133,014.67	59,857.33	69%	189,139.00	8,294.50	134,162.11	54,976.89	72%
Finance			227,750.00	16,621.45	127,290.19	100,459.81	56%	206,844.00	23,320.61	125,224.83	81,619.17	61%
Human Resource			1,628,692.00	94,724.33	1,073,578.55	555,113.45	66%	1,515,143.00	88,251.65	1,015,142.45	500,000.55	67%
Town Clerk/Tax Collector			168,528.00	13,296.34	106,034.30	62,493.70	61%	176,442.00	11,478.40	111,866.22	64,575.78	63%
Recreation			203,351.00	17,750.04	134,348.02	69,002.98	66%	200,322.00	491.69	126,855.14	73,466.86	63%
Code Enforcement			70,731.00	5,028.41	46,027.32	24,703.68	65%	69,755.00	5,297.23	45,963.94	23,791.06	65%
Direct Assistance			35,580.00	1,043.70	12,615.34	22,964.66	35%	41,343.00	1,313.85	16,407.27	24,935.73	40%
Assessing			70,037.00	5,209.44	45,395.33	24,641.67	65%	69,325.00	10,167.73	43,672.06	25,652.94	63%
Legal			80,000.00	6,666.00	56,902.56	23,097.44	71%	80,000.00	11,950.20	60,612.12	19,387.88	76%
Planning			126,215.00	11,421.43	84,127.79	42,087.21	67%	122,676.00	11,398.38	82,433.95	40,242.05	67%
Conservation			2,941.00	197.31	1,395.59	1,545.41	47%	2,941.00	127.50	1,437.50	1,503.50	49%
Economic Development			2,500.00	0.00	0.00	2,500.00	0%	2,500.00	0.00	1,284.95	1,215.05	51%
Debt Services			125,259.00	0.00	125,258.32	0.68	100%	129,759.00	0.00	129,758.32	0.68	100%
Information Technology			139,422.00	9,779.65	102,477.76	36,944.24	74%	135,558.00	11,907.21	102,348.01	33,209.99	76%
Channel 13			32,043.00	3,116.52	22,925.21	9,117.79	72%	31,586.00	3,015.98	15,133.26	16,452.74	48%
Police			1,338,426.00	90,218.07	795,038.13	543,387.87	59%	1,322,707.00	59,445.73	780,225.73	542,481.27	59%
Public Works			434,282.00	45,747.24	307,533.14	126,748.86	71%	427,516.00	45,386.91	308,008.56	119,507.44	72%
Roadways & Sidewalks			520,270.00	40,192.46	448,492.31	71,777.69	86%	330,970.00	60,622.07	206,437.45	124,532.55	62%
Street Lights			49,000.00	3,838.05	26,644.67	22,355.33	54%	49,000.00	4,164.70	29,768.67	19,231.33	61%
Bridges			4,000.00	0.00	3,100.00	900.00	78%	0.00	0.00	0.00	0.00	0%
Building & Grounds			545,965.00	25,959.78	333,322.38	212,642.62	61%	482,233.00	34,287.46	294,830.56	187,402.44	61%
Cemetery			38,132.00	1,415.24	13,617.96	24,514.04	36%	37,253.00	1,518.05	19,256.44	17,996.56	52%
Vehicle			194,000.00	15,298.44	127,848.46	66,151.54	66%	206,500.00	12,472.19	110,471.26	96,028.74	53%
Fire & Rescue			376,958.00	25,769.52	268,733.87	108,224.13	71%	358,762.00	29,560.73	227,406.56	131,355.44	63%
Emergency			3,000.00	0.00	0.00	3,000.00	0%	1,950.00	0.00	750.00	1,200.00	38%
Grants			61,500.00	0.00	45,092.00	16,408.00	73%	53,000.00	0.00	46,505.00	6,495.00	88%
Social Service Grant			43,303.00	0.00	37,203.00	6,100.00	86%	43,029.00	2,000.00	31,126.00	11,903.00	72%
Capital Reserve			555,115.00	0.00	555,115.00	0.00	100%	575,115.00	0.00	575,115.00	0.00	100%
General Fund			7,289,072.00	452,644.85	5,049,322.62	2,239,749.38	69%	6,880,668.00	440,014.02	4,660,737.86	2,219,930.14	68%
Library			316,955.00	22,625.23	192,776.73	124,178.27	61%	314,704.00	25,392.21	291,673.80	23,030.20	93%
Recreation			279,115.00	11,224.67	200,245.23	78,869.77	72%	243,433.00	8,686.02	159,869.82	83,563.18	66%
Solid Waste			464,450.00	57,665.23	321,497.48	142,952.52	69%	447,356.00	37,803.21	305,276.44	142,079.56	68%
Water			1,137,780.00	40,343.28	868,543.09	269,236.91	76%	932,813.00	42,911.15	649,221.92	283,591.08	70%
Sewer			2,182,426.00	419,666.05	1,413,223.17	769,202.83	65%	1,177,968.00	52,954.35	739,044.50	438,923.50	63%
Total Operating Budget			11,669,798.00	1,004,169.31	8,045,608.32	3,624,189.68	69%	9,996,942.00	607,760.96	6,805,824.34	3,191,117.66	68%

Town of Newmarket, New Hampshire
Preliminary Expense Report^{ab}
For the Period Ended February, 2018

Fiscal Year 2018							Fiscal Year 2017					
Function	Account Number	ACCOUNT DESCRIPTION	Budget	Month to Date Transactions	Year to Date Transactions	Balance Year	Percent Used	Budget	Month to Date Transactions	Year to Date Transactions	Balance Year	Percent Used
Town Council	01-401-100-0000	YC - ELECTED SALARIES	11,000.00	2,750.00	11,000.00	0.00	100%	11,000.00	2,750.00	11,000.00	0.00	100%
	01-401-103-0000	YC- PART-TIME	7,800.00	206.25	4,780.96	3,019.04	61%	7,800.00	791.25	6,551.25	1,248.75	84%
	01-401-190-0000	YC - TRAINING	250.00	0.00	200.00	50.00	80%	250.00	0.00	0.00	250.00	0%
	01-401-202-0000	YC- GENERAL SUPPLIES	150.00	0.00	209.79	-59.79	140%	250.00	0.00	983.25	-733.25	393%
			19,200.00	2,956.25	16,190.75	3,009.25	84%	19,300.00	3,541.25	18,534.50	765.50	96%
Town Administrator	01-402-101-0000	TA- FULL TIME SALARIES	141,472.00	11,521.73	98,547.09	42,924.91	70%	135,095.00	10,347.07	93,053.22	42,041.78	69%
	01-402-103-0000	TA- PART TIME SALARIES	0.00	0.00	0.00	0.00	0%	4,000.00	0.00	0.00	4,000.00	0%
	01-402-190-0000	TA- TRAINING/STAFF DEV	5,200.00	1,966.00	6,065.76	-865.76	117%	3,500.00	47.13	2,079.14	1,420.86	59%
	01-402-201-0000	TA- POSTAGE	3,200.00	135.65	2,338.64	861.36	73%	3,000.00	130.11	1,314.49	1,685.51	44%
	01-402-202-0000	TA- GENERAL SUPPLIES	11,500.00	156.44	3,407.03	8,092.97	30%	11,500.00	529.85	4,756.70	6,743.30	41%
	01-402-301-0000	TA- COMMUNICATION SERVICES	4,200.00	100.00	2,899.56	1,300.44	69%	4,200.00	329.08	2,397.84	1,802.16	57%
	01-402-310-0002	TA- DUES/SUBSCRIPTIONS	10,500.00	20.00	9,800.72	699.28	93%	10,500.00	0.00	8,644.00	1,856.00	82%
	01-402-310-0003	TA- ADVERTISING	2,500.00	229.33	1,560.93	939.07	62%	2,500.00	247.89	2,814.77	-314.77	113%
	01-402-310-0005	TA- BOOKS	500.00	77.00	1,308.18	-808.18	262%	500.00	73.08	1,030.40	-530.40	206%
	01-402-402-0000	TA- EQUIPMENT MAINTENANCE	8,300.00	867.78	5,357.51	2,942.49	65%	8,344.00	417.50	6,747.13	1,596.87	81%
	01-402-501-0000	TA- PRINTING/PUBLISHING	3,000.00	1,321.25	1,321.25	1,678.75	44%	3,500.00	1,251.25	1,251.25	2,248.75	36%
	01-402-702-0000	TA - CONTRACTED SERVICE	2,500.00	0.00	408.00	2,092.00	16%	2,500.00	-5,078.46	10,073.17	-7,573.17	403%
			192,872.00	16,395.18	133,014.67	59,857.33	69%	189,139.00	8,294.50	134,162.11	54,976.89	72%
Finance	01-403-100-0000	FINANCE - ELECTED OFFICIALS	900.00	0.00	900.00	0.00	100%	900.00	0.00	900.00	0.00	100%
	01-403-101-0000	FINANCE - FULL TIME SALARIES	134,700.00	7,490.72	82,212.29	52,487.71	61%	167,544.00	7,284.50	98,415.61	69,128.39	59%
	01-403-103-0000	FINANCE - PART TIME SALARIES	5,000.00	416.67	3,750.03	1,249.97	75%	5,000.00	416.67	3,750.03	1,249.97	75%
	01-403-190-0000	FINANCE - TRAINING/STAFF DEVELOPMENT	1,000.00	0.00	42.15	957.85	4%	0.00	0.00	40.72	-40.72	0%
	01-403-202-0000	FINANCE - GENERAL SUPPLIES	5,000.00	87.48	3,137.59	1,862.41	63%	5,000.00	1,494.29	3,057.13	1,942.87	61%
	01-403-301-0000	FINANCE - COMMUNICATIONS SERVICES	2,450.00	152.78	1,658.73	791.27	68%	2,400.00	95.15	1,185.48	1,214.52	49%
	01-403-310-0001	FINANCE - BUDGET COMMITTEE EXPENSE	600.00	0.00	0.00	600.00	0%	600.00	0.00	0.00	600.00	0%
	01-403-310-0003	FINANCE - ADVERTISING	1,000.00	64.00	64.00	936.00	6%	500.00	0.00	1,101.16	-601.16	220%
	01-403-402-0000	FINANCE - EQUIPMENT MAINTENANCE	600.00	0.00	435.00	165.00	73%	900.00	0.00	267.50	632.50	30%
	01-403-410-0000	FINANCE - FIN. SYSTEM LEASE	54,000.00	0.00	6,750.00	47,247.00	13%	0.00	0.00	0.00	0.00	0%
	01-403-460-0000	FINANCE - BANK FEES	0.00	0.00	32.40	-32.40	0%	0.00	30.00	275.20	-275.20	0%
	01-403-703-0000	FINANCE - AUDIT	22,500.00	8,409.80	28,305.00	-5,805.00	126%	24,000.00	14,000.00	16,232.00	7,768.00	68%
			227,750.00	16,621.45	127,290.19	100,459.81	58%	206,844.00	23,320.61	125,224.83	81,619.17	61%
Human Resource	01-404-150-0000	EMP BEN - FICA	129,181.00	9,149.37	78,683.26	50,497.74	61%	124,089.00	8,861.62	75,176.24	48,912.76	61%
	01-404-151-0000	EMP BEN - MEDICARE	46,459.00	3,251.97	28,182.14	18,286.86	61%	45,134.00	3,079.89	27,148.63	17,985.37	60%
	01-404-152-0000	EMP BEN - PRE-EMPLOYMENT TESTING	2,000.00	355.50	1,563.80	436.20	78%	2,740.00	59.75	300.75	2,439.25	11%
	01-404-155-0000	EMP BEN - HEALTH INSURANCE	660,085.00	43,949.60	404,962.76	255,122.24	61%	585,734.00	44,567.53	369,379.55	216,354.45	63%
	01-404-156-0000	EMP BEN - NH RETIREMENT	441,316.00	35,881.22	313,276.85	128,039.15	71%	426,379.00	31,427.87	281,399.69	144,979.31	66%
	01-404-159-0000	EMP BEN - LIFE/DISABILITY BENEFIT	28,199.00	2,335.83	16,808.26	11,390.74	60%	27,660.00	396.00	14,501.05	13,158.95	52%
	01-404-160-0000	EMP BEN - WORKERS COMPENSATION	138,931.00	-220.16	115,904.47	23,026.53	83%	125,389.00	-201.66	125,291.89	97.11	100%
	01-404-161-0000	EMP BEN - UNEMPLOYMENT	1,788.00	0.00	1,163.45	624.55	65%	4,413.00	-5.75	1,610.13	2,802.87	36%
	01-404-162-0000	EMP BEN - EMPLOYEE TESTING	1,000.00	0.00	584.25	415.75	58%	600.00	0.00	572.25	27.75	95%
	01-404-190-0000	HR - TRAINING STAFF DEVELOPMENT	2,500.00	0.00	1,666.87	833.13	67%	2,500.00	664.00	2,833.27	-333.27	133%
	01-404-197-0000	EMP BEN - MERIT INCREASE POOL	45,000.00	0.00	0.00	45,000.00	0%	45,000.00	0.00	0.00	45,000.00	0%
	01-404-198-0000	EMP BEN - LONGEVITY	22,950.00	0.00	17,325.00	5,625.00	75%	22,275.00	0.00	15,750.00	6,525.00	71%
	01-404-202-0000	HR - GENERAL SUPPLIES	0.00	21.00	21.00	-21.00	0%	0.00	0.00	0.00	0.00	0%
	01-404-504-0006	EMP BEN - PROPERTY LIABILITY INSURANCE	109,273.00	0.00	92,436.44	16,836.56	85%	103,230.00	0.00	101,179.00	2,051.00	98%
	01-404-504-0007	EMP BEN - INSURANCE DEDUCTIBLES	0.00	0.00	1,000.00	-1,000.00	0%	0.00	0.00	0.00	0.00	0%
			1,628,692.00	94,724.33	1,073,578.55	555,113.45	66%	1,515,143.00	88,251.65	1,015,142.45	500,000.55	67%
Town Clerk/Tax Collector	01-405-101-0000	YC/TC - FULL TIME SALARIES	108,305.00	8,561.00	72,719.39	35,585.61	67%	105,904.00	8,331.06	70,901.67	35,002.33	67%
	01-405-103-0000	YC/TC - PART TIME SALARIES	28,398.00	2,066.40	17,169.83	11,228.17	60%	27,919.00	1,484.23	16,084.36	11,834.64	58%
	01-405-103-0070	YC/TC PT - ELECTION OFFICIALS	2,925.00	600.00	664.40	2,260.60	23%	8,925.00	600.00	6,705.00	2,220.00	75%
	01-405-190-0000	YC/TC - TRAINING STAFF DEVELOPMENT	2,250.00	100.00	1,207.67	1,042.33	54%	2,600.00	79.39	1,387.78	1,212.22	53%
	01-405-201-0000	YC/TC - POSTAGE	10,620.00	1,063.94	5,289.61	5,330.39	50%	10,167.00	389.35	4,720.52	5,446.48	46%
	01-405-202-0000	YC/TC - GENERAL SUPPLIES	3,300.00	246.39	1,878.25	1,421.75	57%	3,300.00	325.12	2,537.41	762.59	77%
	01-405-301-0000	YC/TC - COMMUNICATION SERVICES	1,600.00	0.00	988.88	611.12	62%	1,600.00	121.76	850.31	749.69	53%
	01-405-310-0002	YC/TC - DUES/SUBSCRIPTIONS	480.00	84.50	201.45	278.55	42%	489.00	9.00	141.95	347.05	29%
	01-405-310-0070	YC/TC - ELECTION/REGISTRATION	3,225.00	0.00	247.88	2,977.12	8%	8,113.00	0.00	3,578.84	4,534.16	44%
	01-405-402-0000	YC/TC - EQUIPMENT MAINTENANCE	1,400.00	130.00	390.00	1,010.00	28%	1,400.00	130.00	527.50	872.50	38%
	01-405-702-0000	YC/TC - DEED RESEARCH	2,575.00	444.11	948.94	1,626.06	37%	2,575.00	8.49	203.13	2,371.87	8%
	01-405-702-1000	YC/TC - CODIFICATION	950.00	0.00	4,328.00	-3,378.00	456%	950.00	0.00	1,727.75	-777.75	182%
	01-405-800-0000	YC/TC - EQUIPMENT PURCHASE	2,500.00	0.00	0.00	2,500.00	0%	2,500.00	0.00	2,500.00	0.00	100%
			168,528.00	13,296.34	106,034.30	62,493.70	63%	176,442.00	11,478.40	111,866.22	64,575.78	63%
Recreation	01-406-101-0000	RECREATION-FULL TIME SALARIES	157,313.00	13,626.43	116,603.00	40,710.00	74%	154,229.00	-3,359.72	94,403.06	59,825.94	61%
	01-406-103-0000	RECREATION-PART TIME SALARIES	26,238.00	1,215.50	2,886.00	23,352.00	11%	25,486.00	2,518.78	23,389.09	2,096.91	91%
	01-406-190-0000	RECREATION-TRAINING/STAFF DEVELOP.	2,000.00	0.00	1,215.79	784.21	61%	2,000.00	0.00	1,072.75	927.25	54%
	01-406-191-0000	RECREATION-TRAVEL EXPENSE	300.00	13.20	465.21	-165.21	151%	300.00	96.46	155.54	144.46	52%
	01-406-192-0000	RECREATION-MEAL ALLOWANCE	300.00	0.00	266.49	33.51	89%	300.00	0.00	161.06	138.94	54%
	01-406-201-0000	RECREATION-POSTAGE	700.00	0.00	0.00	700.00	0%	1,500.00	3.99	3.99	1,496.01	0%
	01-406-202-0000	RECREATION-GENERAL SUPPLIES	1,750.00	722.48	1,579.64	170.36	90%	1,650.00	7.37	1,503.80	146.20	91%
	01-406-301-0000	RECREATION-COMMUNICATION SERVICE	3,200.00	1,233.16	3,133.14	66.86	98%	3,288.00	717.59	2,357.14	930.86	72%
	01-406-310-0002	RECREATION-DUES/SUBSCRIPTIONS	1,200.00	229.39	949.37	250.63	79%	1,233.00	0.00	287.24	945.76	23%
	01-406-402-0000	RECREATION-EQUIP. MAINTENANCE	6,750.00	369.88	6,442.35	307.65	96%	6,636.00	428.04	2,678.29	3,957.71	40%
	01-406-800-0000	RECREATION-EQUIP. PURCHASE	1,200.00	289.24	463.87	736.13	39%	1,200.00	38.24	530.19	669.81	44%
	01-406-904-0000	RECREATION-SUNRISE SUNSET SR CIR	2,400.00	50.76	343.16	2,056.84	14%	2,500.00	40.94	312.99	2,187.01	13%
			203,351.00	17,750.04	134,348.02	69,002.98	68%	200,322.00	491.69	126,855.14	73,466.86	63%

Town of Newmarket, New Hampshire
Preliminary Expense Report^{ab}
For the Period Ended February, 2018

Fiscal Year 2018							Fiscal Year 2017					
Function	Account Number	ACCOUNT DESCRIPTION	Budget	Month to Date Transactions	Year to Date Transactions	Balance Year	Percent Used	Budget	Month to Date Transactions	Year to Date Transactions	Balance Year	Percent Used
	01-407-101-0000	CODE - FULL-TIME SALARIES	25,356.00	1,950.17	17,327.26	8,028.74	68%	25,356.00	1,950.16	17,609.62	7,746.38	69%
	01-407-103-0000	CODE - PART TIME SALARIES	39,895.00	2,847.39	25,303.73	14,591.27	63%	38,919.00	3,060.58	26,006.42	12,912.58	67%
	01-407-190-0000	CODE - TRAINING	1,000.00	0.00	100.00	900.00	10%	1,000.00	0.00	110.00	890.00	11%
	01-407-201-0000	CODE - POSTAGE	130.00	11.01	105.90	24.10	81%	130.00	4.14	83.08	46.92	64%
	01-407-202-0000	CODE - GENERAL SUPPLIES	2,700.00	45.84	556.20	2,143.80	21%	2,700.00	12.18	497.20	2,202.80	18%
	01-407-301-0000	CODE - TELEPHONE	1,000.00	50.00	752.23	247.77	75%	1,000.00	86.17	615.67	384.33	62%
	01-407-310-0002	CODE - DUES/SUBSCRIPTIONS	400.00	124.00	1,882.00	-1,482.00	471%	400.00	184.00	1,041.95	-641.95	260%
	01-407-402-0000	CODE - EQUIPMENT MAINTENANCE	200.00	0.00	0.00	200.00	0%	200.00	0.00	0.00	200.00	0%
	01-407-702-0000	CODE - LAB TESTING	50.00	0.00	0.00	50.00	0%	50.00	0.00	0.00	50.00	0%
Code Enforcement			70,731.00	5,028.41	46,027.32	24,703.68	65%	69,755.00	5,297.23	45,963.94	23,791.06	66%
	01-408-103-0000	DIR ASSIST - PART-TIME SALARIES	20,000.00	1,012.50	8,606.43	11,393.57	43%	23,943.00	1,251.91	10,710.15	13,232.85	45%
	01-408-190-0000	DIR ASSIST - TRAINING/STAFF DEVEL	150.00	0.00	0.00	150.00	0%	150.00	0.00	0.00	150.00	0%
	01-408-202-0000	DIR ASSIST - GENERAL SUPPLIES	380.00	31.20	248.91	131.09	66%	200.00	61.94	217.12	-17.12	109%
	01-408-310-0002	DIR ASSIST - DUES/SUBSCRIPTIONS	50.00	0.00	0.00	50.00	0%	50.00	0.00	0.00	50.00	0%
	01-408-315-0038	DIR ASSIST - FOOD	1,000.00	0.00	0.00	1,000.00	0%	1,000.00	0.00	0.00	1,000.00	0%
	01-408-315-0039	DIR ASSIST - RENT	10,000.00	0.00	2,260.00	7,740.00	23%	10,000.00	0.00	4,730.00	5,270.00	47%
	01-408-315-0040	DIR ASSIST - ELECTRICITY	1,000.00	0.00	0.00	1,000.00	0%	1,000.00	0.00	0.00	1,000.00	0%
	01-408-315-0041	DIR ASSIST - HEAT	1,000.00	0.00	0.00	1,000.00	0%	2,000.00	0.00	0.00	2,000.00	0%
	01-408-315-0042	DIR ASSIST - MEDICAL	1,000.00	0.00	0.00	1,000.00	0%	1,500.00	0.00	0.00	1,500.00	0%
	01-408-315-0043	DIR ASSIST - MISCELLANEOUS	1,000.00	0.00	1,500.00	-500.00	150%	1,500.00	0.00	750.00	750.00	50%
Direct Assistance			35,580.00	1,043.70	12,615.34	22,964.66	35%	41,343.00	1,313.85	16,407.27	24,935.73	40%
	01-409-130-0000	ASSESS - CONTRACTED SERVICES	61,987.00	5,202.65	37,332.33	24,654.67	60%	60,475.00	10,167.27	35,653.53	24,821.47	59%
	01-409-201-0000	ASSESS - POSTAGE	0.00	6.79	16.01	-16.01	0%	500.00	0.46	24.53	475.47	5%
	01-409-202-0000	ASSESS - GENERAL SUPPLIES	0.00	0.00	126.99	-126.99	0%	500.00	0.00	234.00	266.00	47%
	01-409-310-0002	ASSESS - DUES/SUBSCRIPTIONS	150.00	0.00	0.00	150.00	0%	150.00	0.00	0.00	150.00	0%
	01-409-407-0000	ASSESS - SOFTWARE	7,900.00	0.00	7,920.00	-20.00	100%	7,700.00	0.00	7,760.00	-60.00	101%
Assessing			70,037.00	5,209.44	45,395.33	24,641.67	65%	69,325.00	10,167.73	43,672.05	25,652.94	63%
	01-410-602-0000	LEGAL - LEGAL EXPENSES	80,000.00	6,666.00	56,902.56	23,097.44	71%	80,000.00	11,950.20	60,612.12	19,387.88	76%
Legal			80,000.00	6,666.00	56,902.56	23,097.44	71%	80,000.00	11,950.20	60,612.12	19,387.88	76%
	01-411-101-0000	PLAN - FULL TIME SALARIES	100,565.00	7,909.47	67,902.94	32,662.06	68%	98,731.00	7,735.90	67,294.47	31,436.53	68%
	01-411-103-0000	PLAN - PART TIME SALARIES	2,000.00	0.00	0.00	2,000.00	0%	2,000.00	0.00	0.00	2,000.00	0%
	01-411-190-0000	PLAN - TRAINING/STAFF DEVELOPMENT	1,500.00	16.65	160.47	1,339.53	11%	1,500.00	0.00	58.40	1,441.60	4%
	01-411-201-0000	PLAN - POSTAGE	2,500.00	86.93	1,036.87	1,463.13	41%	2,500.00	70.14	770.56	1,729.44	31%
	01-411-202-0000	PLAN - GENERAL SUPPLIES	2,500.00	52.29	1,096.07	1,403.93	44%	2,000.00	20.49	1,210.38	789.62	61%
	01-411-202-0054	PLAN - MAPPING SUPPLIES	4,000.00	3,000.00	3,000.00	1,000.00	75%	4,000.00	3,000.00	3,000.00	1,000.00	75%
	01-411-301-0000	PLAN - COMMUNICATIONS SERVICES	650.00	0.00	657.94	-7.94	101%	600.00	53.76	433.44	166.56	72%
	01-411-310-0002	PLAN - DUES/SUBSCRIPTIONS	8,500.00	0.00	8,557.76	-57.76	101%	8,345.00	518.09	8,965.28	-620.28	107%
	01-411-310-0003	PLAN - ADVERTISING	3,000.00	356.09	1,442.74	1,557.26	48%	2,000.00	0.00	701.42	1,298.58	35%
	01-411-702-0000	PLAN - TAX MAPS	1,000.00	0.00	273.00	727.00	27%	1,000.00	0.00	0.00	1,000.00	0%
Planning			126,215.00	11,421.43	84,127.79	42,087.21	67%	122,676.00	11,358.38	82,433.95	40,242.05	67%
	01-413-103-0000	CON COMM - PT RECORDING SECRETARY	2,000.00	187.43	1,155.16	844.84	58%	2,000.00	127.50	982.50	1,017.50	49%
	01-413-201-0000	CON COMM - POSTAGE	60.00	9.88	9.88	50.12	16%	60.00	0.00	60.00	0.00	100%
	01-413-202-0000	CON COMM - GENERAL SUPPLI	200.00	0.00	0.00	200.00	0%	200.00	0.00	75.00	125.00	38%
	01-413-310-0002	CON COMM - DUES/SUBSCRIPT	390.00	0.00	0.00	390.00	0%	390.00	0.00	0.00	390.00	0%
	01-413-702-0000	CON COMM - CONTRACTED SERVICES	291.00	0.00	230.55	60.45	79%	291.00	0.00	320.00	-29.00	110%
Conservation			2,941.00	197.31	1,395.59	1,545.41	47%	2,941.00	127.50	1,437.50	1,503.50	49%
	01-414-310-0000	ECON DEV - OPERATING EXPENSE	2,500.00	0.00	0.00	2,500.00	0%	2,500.00	0.00	1,284.95	1,215.05	51%
Economic Development			2,500.00	0.00	0.00	2,500.00	0%	2,500.00	0.00	1,284.95	1,215.05	51%
	01-418-950-0000	DEBT SER - PRINCIPLE	100,000.00	0.00	100,000.00	0.00	100%	100,000.00	0.00	100,000.00	0.00	100%
	01-418-951-0000	DEBT SER - INTEREST	25,259.00	0.00	25,258.32	0.68	100%	29,759.00	0.00	29,758.32	0.68	100%
Debt Services			125,259.00	0.00	125,258.32	0.68	100%	129,759.00	0.00	129,758.32	0.68	100%
	01-420-101-0000	MIS - FULL TIME SALARIES	69,547.00	5,483.48	46,539.23	23,007.77	67%	68,183.00	5,349.74	45,741.36	22,441.64	67%
	01-420-190-0000	MIS - TRAINING	1,000.00	0.00	999.00	1.00	100%	1,000.00	999.00	999.00	1.00	100%
	01-420-202-0000	MIS - GENERAL SUPPLIES	2,500.00	367.86	2,828.15	-328.15	113%	2,500.00	360.77	990.27	1,509.73	40%
	01-420-301-0000	MIS - COMMUNICATION SERVICE	600.00	50.67	455.07	144.93	76%	600.00	100.82	603.22	-3.22	101%
	01-420-310-0002	MIS - DUES SUBSCRIPTIONS	275.00	0.00	400.00	-125.00	145%	275.00	0.00	125.00	150.00	45%
	01-420-407-0000	MIS - SOFTWARE MAINT	45,000.00	3,750.00	38,881.86	6,118.14	46%	42,500.00	3,750.00	41,202.49	1,297.51	97%
	01-420-409-0000	MIS - REPAIRS/MAINT	4,500.00	127.64	2,637.22	1,862.78	59%	4,500.00	0.00	2,285.91	2,214.09	51%
	01-420-414-0000	MIS - SOFTWARE LICENSES	4,500.00	0.00	3,465.50	1,034.50	77%	4,500.00	362.74	2,707.92	1,792.08	60%
	01-420-702-0000	MIS - VENDOR SUPPORT	1,500.00	0.00	0.00	1,500.00	0%	1,500.00	0.00	0.00	1,500.00	0%
	01-420-800-0000	MIS - NEW EQUIPMENT	10,000.00	0.00	6,271.73	3,728.27	63%	10,000.00	984.14	7,692.84	2,307.16	77%
Information Technology			139,422.00	9,779.65	102,477.76	36,944.24	74%	135,558.00	11,907.21	102,348.01	33,209.99	76%
	01-421-103-0000	CHANNEL 13 PART TIME SALARIES	23,543.00	2,283.00	18,971.00	4,572.00	81%	23,086.00	1,780.00	10,510.36	12,575.64	46%
	01-421-202-0000	CHANNEL 13 MISC EQUIPMENTS	6,000.00	583.52	1,954.21	4,045.79	33%	6,000.00	79.98	1,966.90	4,033.10	33%
	01-421-310-0000	CHANNEL 13 - OPERATING EXPENSES	2,500.00	250.00	2,000.00	500.00	80%	2,500.00	1,156.00	2,656.00	-156.00	106%
Channel 13			32,043.00	3,116.52	22,925.21	9,117.79	72%	31,586.00	3,015.98	15,133.26	16,452.74	48%

Town of Newmarket, New Hampshire
Preliminary Expense Report^{ab}
For the Period Ended February, 2018

Fiscal Year 2018								Fiscal Year 2017					
Function	Account Number	ACCOUNT DESCRIPTION	Budget	Month to Date Transactions	Year to Date Transactions	Balance Year	Percent Used	Budget	Month to Date Transactions	Year to Date Transactions	Balance Year	Percent Used	
Police	01-438-101-0000	POLICE - FULL TIME SALARIES	1,050,266.00	78,197.44	667,118.22	383,147.78	64%	1,037,437.00	45,754.20	648,755.60	388,681.40	63%	
	01-438-102-0000	POLICE - OVERTIME	120,000.00	4,569.93	70,813.04	49,186.96	59%	107,010.00	6,161.85	68,057.56	38,952.44	60%	
	01-438-103-0000	POLICE - PART-TIME SALARIES	35,000.00	1,957.58	15,685.44	19,314.56	45%	35,000.00	2,064.41	18,025.87	16,974.13	50%	
	01-438-162-0000	POLICE - MEDICAL	2,500.00	0.00	1,065.00	1,435.00	43%	2,500.00	0.00	940.08	1,559.92	38%	
	01-438-190-0000	POLICE - TRAINING/STAFF DEVELOPMENT	10,000.00	80.00	1,146.83	8,853.17	11%	10,000.00	65.00	3,708.16	6,291.84	32%	
	01-438-191-0000	POLICE - TRAVEL/MILEAGE	600.00	0.00	65.27	534.73	11%	600.00	0.00	19.00	581.00	3%	
	01-438-193-0000	POLICE - UNIFORMS	8,800.00	292.68	292.68	8,507.32	3%	8,800.00	96.95	2,816.55	5,983.44	32%	
	01-438-194-0000	POLICE - EDUCATIONAL INCENTIVE	6,900.00	0.00	5,050.00	1,850.00	73%	5,000.00	0.00	4,800.00	200.00	96%	
	01-438-195-0000	POLICE - CLEANING ALLOWANCE	2,500.00	0.00	2,250.00	250.00	90%	2,500.00	0.00	2,500.00	0.00	100%	
	01-438-199-0000	POLICE - CRIMINAL INVESTIGATION	2,000.00	0.00	194.75	1,805.25	10%	2,000.00	278.83	418.53	1,581.47	21%	
	01-438-200-0000	POLICE - YOUTH/PUBLIC RELATIONS	2,500.00	64.98	64.98	2,435.02	3%	2,500.00	500.00	900.24	1,599.76	36%	
	01-438-201-0000	POLICE - POSTAGE	450.00	34.24	287.66	162.35	64%	450.00	47.74	274.12	175.88	61%	
	01-438-202-0000	POLICE - OFFICE SUPPLIES	5,500.00	92.27	2,030.24	3,469.76	37%	5,500.00	344.88	2,395.97	3,104.03	44%	
	01-438-202-0438	POLICE-GENERAL SUPPLIES	400.00	21.00	204.25	195.75	51%	400.00	21.00	165.00	235.00	41%	
	01-438-209-0000	POLICE-GASOLINE	22,000.00	1,897.59	14,050.80	7,949.20	64%	34,000.00	1,519.54	11,577.87	22,422.13	34%	
	01-438-301-0000	POLICE - COMMUNICATION SERVICES	16,500.00	2,350.14	8,188.84	8,311.16	50%	16,500.00	911.70	7,095.52	9,404.48	43%	
	01-438-310-0002	POLICE - DUES/MEMBERSHIPS	4,210.00	0.00	450.00	3,760.00	11%	4,210.00	150.00	425.00	3,785.00	10%	
	01-438-310-0005	POLICE - BOOKS/PUBLICATIONS	2,800.00	62.85	62.85	2,737.15	2%	2,800.00	160.00	467.80	2,332.20	17%	
	01-438-310-0044	POLICE - EQUIPMENT/FIELD SUPPLIES	6,000.00	0.00	1,598.11	4,401.89	27%	6,000.00	270.01	788.01	5,211.99	13%	
	01-438-310-0045	POLICE - PRISONER EXPENSES	1,200.00	0.00	0.00	1,200.00	0%	1,200.00	0.00	324.92	875.08	27%	
	01-438-402-0000	POLICE - EQUIP MAINTENANCE	5,000.00	0.00	83.29	4,916.71	2%	5,000.00	0.00	642.82	4,357.18	13%	
	01-438-410-0000	POLICE - EQUIPMENT LEASE	26,900.00	597.37	4,224.15	22,675.85	16%	26,900.00	1,011.63	4,242.11	22,657.89	16%	
	01-438-501-0000	POLICE - PRINTING/PUBLISHING	2,800.00	0.00	111.74	2,688.26	4%	2,800.00	87.99	884.99	1,915.01	32%	
	01-438-521-0000	POLICE - ANIMAL CONTROL	3,600.00	0.00	0.00	3,600.00	0%	3,600.00	0.00	0.00	3,600.00	0%	
Police			1,338,426.00	90,218.07	795,038.13	543,387.87	59%	1,322,707.00	59,445.73	780,225.73	542,481.27	59%	
Public Works	01-441-101-0000	PWADMIN. - FULL TIME SALARIES	119,732.00	9,274.24	81,083.50	38,648.50	68%	119,085.00	9,210.24	80,073.31	39,011.69	67%	
	01-441-102-0000	PWADMIN. - OVERTIME	50,000.00	14,782.18	48,138.56	1,861.44	95%	50,000.00	14,558.49	53,164.99	-3,164.99	106%	
	01-441-106-0000	PWADMIN. - LABOR SALARIES	235,750.00	20,098.50	157,837.28	77,912.72	67%	231,131.00	18,524.52	156,492.71	74,638.29	68%	
	01-441-190-0000	PWADMIN. - TRAINING/STAFF DEVELOPMENT	1,000.00	0.00	50.00	950.00	5%	1,000.00	0.00	1,200.00	-200.00	120%	
	01-441-193-0000	PWADMIN. - UNIFORMS	10,000.00	738.03	7,927.93	2,072.07	79%	10,000.00	673.17	5,633.74	4,366.26	56%	
	01-441-201-0000	PW ADMIN. - POSTAGE	100.00	1.05	2.43	97.57	2%	100.00	1.13	29.32	70.68	29%	
	01-441-202-0000	PWADMIN. - GENERAL SUPPLIES	7,500.00	214.47	4,899.05	2,600.95	65%	8,000.00	1,820.62	6,381.22	1,618.78	80%	
	01-441-301-0000	PW ADMIN. - COMMUNICATION SERVICE	7,000.00	598.77	6,833.55	166.45	98%	6,000.00	598.74	4,968.27	1,031.73	83%	
	01-441-310-0002	PW ADMIN. - DUES/MEMBERSHIPS	2,000.00	40.00	180.00	1,820.00	9%	1,000.00	0.00	65.00	935.00	7%	
	01-441-310-0003	PW ADMIN. - ADVERTISING	1,200.00	0.00	580.84	619.16	48%	1,200.00	0.00	0.00	1,200.00	0%	
Public Works			434,282.00	45,747.24	307,533.14	126,748.86	71%	427,516.00	45,386.91	308,008.56	119,507.44	72%	
Roadways & Sidewalks	01-442-202-0000	RDWY/SWK - GENERAL SUPPLIES	16,000.00	281.85	14,636.58	1,363.42	91%	16,000.00	464.21	15,291.92	708.08	96%	
	01-442-205-0000	RDWY/SWK - WINTER SALT	80,000.00	36,800.46	93,996.20	-13,996.20	117%	80,000.00	55,538.37	101,011.67	-21,011.67	126%	
	01-442-208-0000	RDWY/SWK - WINTER SAND	6,200.00	0.00	0.00	6,200.00	0%	6,200.00	0.00	0.00	6,200.00	0%	
	01-442-213-0000	RDWY/SWK - PAVEMENT MARKING	3,500.00	0.00	3,638.69	-138.69	104%	3,500.00	0.00	15.96	3,484.04	0%	
	01-442-250-0000	RDWY/SWK - COLD MIX	3,000.00	0.00	2,033.20	966.80	68%	3,000.00	0.00	1,336.50	1,663.50	45%	
	01-442-251-0000	RDWY/SWK - HOT TOP	308,000.00	0.00	298,660.44	9,339.56	97%	155,000.00	0.00	61,025.96	93,974.04	39%	
	01-442-402-0000	RDWY/SWK - EQUIPMENT LEASE	12,500.00	0.00	9,365.00	3,135.00	75%	13,200.00	0.00	13,892.50	-692.50	105%	
	01-442-514-0000	RDWY/SWK - CONTRACT STREET MAR	6,000.00	0.00	6,582.14	-582.14	110%	6,000.00	0.00	5,998.44	1.56	100%	
	01-442-516-0000	RDWY/SWK - CONTRACT WINTER EQU	10,000.00	1,280.00	1,680.00	8,320.00	17%	15,000.00	1,200.00	1,520.00	13,480.00	10%	
	01-442-527-0000	RDWY/SWK - CURBSIDE WEED CONTR	1,500.00	0.00	1,900.00	-400.00	127%	3,000.00	0.00	1,900.00	1,100.00	63%	
	01-442-528-0000	RDWY/SWK - TREE SERVICE	1,500.00	0.00	800.00	700.00	53%	3,000.00	0.00	0.00	3,000.00	0%	
	01-442-531-0000	RDWY/SWK - WEATHER SERVICE	2,070.00	410.00	1,230.00	840.00	59%	2,070.00	0.00	1,025.01	1,044.99	50%	
	01-442-704-0000	RDWY/SWK - ENGINEERING	25,000.00	1,420.35	4,209.43	20,790.57	17%	25,000.00	3,419.49	3,419.49	21,580.51	14%	
	01-442-705-0000	RDWY/SWK CONSTRUCTION	45,000.00	0.00	9,760.63	35,239.37	22%	0.00	0.00	0.00	0.00	0%	
Roadways & Sidewalks			520,270.00	40,192.46	448,492.31	71,777.69	88%	330,970.00	60,622.07	206,437.45	124,532.55	62%	
Street Lights	01-446-202-0000	STREETLIGHT - FIXTURES	2,000.00	0.00	0.00	2,000.00	0%	2,000.00	0.00	0.00	2,000.00	0%	
	01-446-302-0000	STREETLIGHT - ELECTRICITY	47,000.00	3,838.05	26,644.67	20,355.33	57%	47,000.00	4,164.70	29,768.67	17,231.33	63%	
Street Lights			49,000.00	3,838.05	26,644.67	22,355.33	54%	49,000.00	4,164.70	29,768.67	19,231.33	61%	
Bridges	01-447-416-0000	BRIDGES - GUARDRAILS	4,000.00	0.00	3,100.00	900.00	78%	0.00	0.00	0.00	0.00	0%	
			4,000.00	0.00	3,100.00	900.00	76%	0.00	0.00	0.00	0.00	0%	

Town of Newmarket, New Hampshire
Preliminary Expense Report^{ab}
For the Period Ended February, 2018

Fiscal Year 2018							Fiscal Year 2017					
Function	Account Number	ACCOUNT DESCRIPTION	Budget	Month to Date Transactions	Year to Date Transactions	Balance Year	Percent Used	Budget	Month to Date Transactions	Year to Date Transactions	Balance Year	Percent Used
Building & Grounds	01-448-101-0000	BLD/GRNDS - FULL-TIME SALARIES	134,731.00	7,717.27	63,787.21	70,943.79	47%	63,461.00	4,987.20	42,630.10	20,830.90	67%
	01-448-102-0000	BLD/GRNDS - OVERTIME	3,000.00	-7,469.52	1,718.22	1,281.78	57%	3,000.00	2,678.94	5,710.87	-2,710.87	190%
	01-448-103-0000	BLD/GRNDS - PART TIME SALARIES	87,834.00	2,028.08	48,930.03	38,903.97	56%	86,247.00	2,498.50	43,028.71	43,218.29	50%
	01-448-190-0000	BLDG/GRNDS - TRAINING/STAFF DEVELOPM	0.00	0.00	834.00	-834.00	0%	0.00	0.00	0.00	0.00	0%
	01-448-191-0000	BLDG/GRNDS-TRAVEL EXPENSE	0.00	66.50	532.00	-532.00	0%	0.00	0.00	0.00	0.00	0%
	01-448-202-0000	BLD/GRNDS - GENERAL SUPPLIES	10,000.00	452.14	8,937.85	1,062.15	89%	10,000.00	64.67	3,914.98	6,085.02	39%
	01-448-301-0000	BLDG/GRNDS-COMMUNICATIONS	0.00	-81.40	167.20	-167.20	0%	0.00	0.00	0.00	0.00	0%
	01-448-302-0000	BLD/GRNDS - ELECTRICITY-TOWN HALL	12,000.00	869.60	6,260.40	5,739.60	52%	12,000.00	850.31	6,935.86	5,064.14	58%
	01-448-302-0156	BLDG/GRNDS-ELECTRICITY BEECH ST EXT	0.00	46.40	309.93	-309.93	0%	0.00	0.00	0.00	0.00	0%
	01-448-302-0406	BLD/GRNDS - ELECTRICITY- PARKS	1,300.00	91.01	736.98	563.02	57%	1,300.00	115.43	689.32	610.68	53%
	01-448-302-0438	BLD/GRNDS - ELECTRICITY POLICE	13,500.00	1,408.52	6,167.63	7,332.37	46%	13,500.00	696.21	6,451.22	7,048.78	48%
	01-448-302-0441	BLD/GRNDS - ELECTRICITY YOUNGS LANE	25,000.00	1,954.90	13,039.80	11,960.20	52%	25,000.00	2,064.16	14,067.12	10,932.88	56%
	01-448-303-0000	BLD/GRNDS - HEAT & OIL - TOWN HALL	22,000.00	1,298.93	8,367.65	13,632.35	38%	23,000.00	1,892.34	11,267.53	11,732.47	49%
	01-448-303-0156	BLDG/GRNDS-HEATING BEECH ST EXT	0.00	129.27	511.80	-511.80	0%	0.00	0.00	0.00	0.00	0%
	01-448-303-0438	BLD/GRNDS - HEAT & OIL - POLICE	3,000.00	1,229.96	2,372.39	627.61	79%	4,100.00	1,182.47	2,573.58	1,526.42	63%
	01-448-303-0441	BLD/GRNDS - HEAT & OIL - YOUNGS LANE	30,000.00	6,109.48	22,623.14	7,376.86	75%	39,000.00	4,968.97	17,024.60	21,975.40	44%
	01-448-304-0000	BLD/GRNDS - WATER/SEWER TOWN HALL	4,000.00	0.00	4,227.77	-227.77	106%	4,000.00	1,508.93	4,135.86	-135.86	103%
	01-448-304-0150	BLD/GRNDS-WATER/SEWER COMMUNITY CT	0.00	116.65	1,709.37	-1,709.37	0%	0.00	123.92	2,545.21	-2,545.21	0%
	01-448-304-0156	BLDG/GRNDS-WATER/SEWER BEECH ST EXT	0.00	0.00	68.85	-68.85	0%	0.00	0.00	0.00	0.00	0%
	01-448-304-0438	BLD/GRNDS - WATER/SEWER - POLICE	900.00	0.00	502.88	397.12	56%	525.00	151.90	434.11	90.89	83%
	01-448-304-0441	BLD/GRNDS - WATER/SEWER- YOUNGS LANE	2,000.00	0.00	1,466.36	533.64	73%	1,950.00	512.25	1,540.77	409.23	79%
	01-448-401-0110	BLD/GRNDS - YOUNGS LANE MAINT	14,000.00	576.66	7,843.19	6,156.81	56%	14,000.00	367.97	13,710.90	289.10	98%
	01-448-401-0120	BLD/GRNDS - TOWN HALL MAINTENANCE	13,000.00	3,496.06	24,798.95	-11,798.95	191%	13,000.00	355.62	10,076.10	2,923.90	78%
	01-448-401-0125	BLD/GRNDS - ELEVATOR MAINTENANCE	3,000.00	645.17	1,886.99	1,113.01	63%	2,500.00	614.45	1,199.64	1,300.36	48%
	01-448-401-0140	BLD/GRNDS - PARKS MAINTENANCE	8,000.00	0.00	8,299.90	-299.90	104%	8,000.00	51.13	1,621.19	6,378.81	20%
	01-448-401-0150	BLD/GRNDS - COMMUNITY CENTER MAINT	7,500.00	496.79	11,723.68	-4,223.68	156%	7,500.00	4,528.87	10,148.36	-2,648.36	136%
	01-448-401-0151	BLD/GRNDS - COMM CTR ELECTRICITY	12,000.00	719.06	6,977.38	5,022.62	58%	12,000.00	778.63	7,216.64	4,783.36	60%
	01-448-401-0152	BLD/GRNDS - COMM CTR HEAT OIL	11,000.00	1,993.06	7,674.89	3,325.11	70%	14,000.00	1,970.61	8,260.51	5,739.49	59%
	01-448-401-0153	BLD/GRNDS - SENIOR CENTER ELECTRICITY	7,500.00	610.34	2,123.82	5,376.18	28%	7,000.00	233.80	1,981.86	5,018.14	28%
	01-448-401-0154	BLD/GRNDS - SENIOR CTR HEAT	7,500.00	346.11	1,413.48	6,086.52	19%	5,000.00	398.52	1,217.92	3,782.08	24%
	01-448-401-0155	BLD/GRNDS - SENIOR CTR MAINT.	0.00	777.56	1,940.05	-1,940.05	0%	0.00	0.00	175.50	-175.50	0%
	01-448-401-0160	BLD/GRNDS - BANDSTAND MAINTENANCE	100.00	0.00	0.00	100.00	0%	100.00	0.00	0.00	100.00	0%
	01-448-401-0170	BLD/GRNDS - HAND TUB MAINTENANCE	300.00	15.85	140.80	159.20	47%	300.00	27.65	143.39	156.61	48%
	01-448-401-0175	BLD/GRNDS - DAM MAINTENANCE	3,000.00	14.88	1,670.11	1,329.89	56%	3,000.00	15.12	1,832.78	1,167.22	61%
	01-448-401-0180	BLD/GRNDS - TOWN CLOCK MAINTENANCE	2,800.00	0.00	2,555.00	245.00	91%	250.00	0.00	36.66	213.34	15%
	01-448-401-0438	BLD/GRNDS - POLICE BUILDING MAINTENANCE	10,000.00	301.25	3,628.91	6,371.09	36%	11,500.00	26.99	10,891.45	608.55	95%
	01-448-402-0000	BLD/GRNDS - EQUIPMENT MAINTENANCE	2,500.00	0.00	1,117.76	1,382.24	45%	2,500.00	0.00	1,102.08	1,397.92	44%
	01-448-405-0000	BLD/GRNDS - GROUNDS MAINTENANCE	32,000.00	0.00	16,256.01	15,743.99	51%	32,000.00	621.90	22,665.74	9,334.26	70%
	01-448-533-0000	BLD/GRNDS - MOSQUITO CONTROL	60,000.00	0.00	40,000.00	20,000.00	67%	60,000.00	0.00	40,000.00	20,000.00	67%
	01-448-800-0000	BLD/GRNDS - EQUIPMENT PURCHASE	2,500.00	0.00	0.00	2,500.00	0%	2,500.00	0.00	0.00	2,500.00	0%
Building & Grounds			545,965.00	25,959.78	333,322.38	212,642.62	61%	482,233.00	34,287.46	294,830.56	187,402.44	61%
Cemetery	01-449-101-0000	CEM - FULL TIME SALARIES	19,532.00	1,400.00	11,200.00	8,332.00	57%	19,053.00	1,502.40	13,179.29	5,873.71	69%
	01-449-103-0000	CEM - PART TIME SALARIES	11,050.00	0.00	2,163.67	8,886.33	20%	11,050.00	0.00	5,658.95	5,391.05	51%
	01-449-202-0000	CEM - GENERAL SUPPLIES	500.00	0.00	74.02	425.98	15%	500.00	15.65	418.20	81.80	84%
	01-449-302-0000	CEM - ELECTRICITY	250.00	15.24	118.09	131.91	47%	250.00	0.00	0.00	250.00	0%
	01-449-402-0000	CEM - EQUIPMENT MAINT	800.00	0.00	621.8	178.2	8%	800.00	0.00	0.00	800.00	0%
	01-449-702-0000	CEM - CONTRACTED SERVICES	5,000.00	0.00	0.00	5,000.00	0%	5,000.00	0.00	0.00	5,000.00	0%
	01-449-800-0000	CEM - EQUIPMENT PURCHASE	1,000.00	0.00	0.00	1,000.00	0%	600.00	0.00	0.00	600.00	0%
Cemetery			38,132.00	1,415.24	13,617.96	24,514.04	36%	37,253.00	1,518.05	19,256.44	17,996.56	52%
Vehicle	01-452-202-0000	VEHICLE - GENERAL SUPPLIES	3,000.00	937.96	3,021.01	-21.01	101%	3,000.00	855.12	2,360.79	639.21	79%
	01-452-209-0000	VEHICLE - GASOLINE	10,000.00	2,037.57	5,013.49	4,986.51	50%	16,000.00	364.98	4,084.63	11,915.37	26%
	01-452-210-0000	VEHICLE - DIESEL FUEL	30,000.00	3,003.20	14,073.08	15,926.92	47%	38,000.00	2,674.56	14,728.06	23,271.94	39%
	01-452-214-0000	VEHICLE - OIL	1,500.00	1,051.61	1,051.61	448.39	70%	0.00	812.22	812.22	-812.22	0%
	01-452-402-0000	VEHICLE - EQUIP MAINT	60,000.00	2,312.78	40,782.69	19,217.31	68%	60,000.00	2,741.77	33,425.31	26,574.69	56%
	01-452-403-0000	VEHICLE - VEHICLE MAINT PUBLIC WORKS	48,000.00	3,161.88	33,384.52	14,615.48	70%	48,000.00	4,914.54	38,279.71	9,720.29	80%
	01-452-403-0406	VEHICLE - VEHICLE MAINT REC	2,000.00	0.00	1,604.00	395.00	80%	2,000.00	0.00	265.07	1,734.93	13%
	01-452-403-0438	VEHICLE - VEHICLE MAINT POLICE	15,000.00	2,034.44	10,241.85	4,758.15	38%	15,000.00	109.00	7,021.05	7,978.95	47%
	01-452-403-0461	VEHICLE - VEHICLE MAINT FIRE	20,000.00	759.00	12,782.95	7,217.05	64%	20,000.00	0.00	8,144.42	11,855.58	41%
	01-452-404-0000	VEHICLE - RADIO MAINT	1,500.00	0.00	0.00	1,500.00	0%	1,500.00	0.00	0.00	1,500.00	0%
	01-452-800-0000	VEHICLE - EQUIP PURCHASE	3,000.00	0.00	5,893.31	-2,893.31	196%	3,000.00	0.00	1,350.00	1,650.00	45%
Vehicle			194,000.00	15,298.44	127,848.46	66,151.54	66%	206,500.00	12,472.19	110,471.26	96,028.74	53%
Fire & Rescue	01-461-101-0000	FIRE/RES - FULL TIME SALARIES	86,475.00	6,346.80	53,847.76	32,627.24	62%	84,779.00	4,143.18	54,178.17	30,600.83	64%
	01-461-102-0000	FIRE/RES - OVERTIME	17,500.00	2,329.89	19,114.71	-1,614.71	109%	14,000.00	833.67	9,158.33	4,841.67	65%
	01-461-103-0000	FIRE/RES - PARTTIME SALARIES	145,808.00	13,402.80	112,681.85	33,126.15	77%	134,808.00	9,821.94	90,825.35	43,982.65	67%
	01-461-190-0000	FIRE/RES - TRAINING/STAFF DEVELOPMENT	20,000.00	125.00	10,296.84	9,703.16	51%	18,000.00	2,090.81	5,281.60	12,718.40	29%
	01-461-193-0000	FIRE/RES - UNIFORMS	12,000.00	270.08	8,903.99	3,096.01	74%	12,000.00	1,121.45	7,123.07	4,876.93	59%
	01-461-201-0000	FIRE/RES - POSTAGE	75.00	1.41	43.23	31.77	58%	75.00	5.06	16.94	58.06	23%
	01-461-202-0000	FIRE/RES - GENERAL SUPPLIES	7,500.00	570.20	3,461.78	4,038.22	46%	6,500.00	-26.19	3,930.60	2,569.40	60%
	01-461-202-0046	FIRE/RES - MEDICAL SUPPLIES	13,500.00	705.75	6,954.44	6,545.56	52%	13,500.00	1,117.01	8,962.23	4,537.77	66%
	01-461-209-0000	FIRE/RES - GASOLINE	900.00	29.49	297.82	602.18	33%	1,200.00	0.00	187.83	1,012.17	16%
	01-461-210-0000	FIRE/RES - DIESEL FUEL	7,000.00	506.80	4,083.36	2,916.64	58%	8,700.00	351.90	3,734.52	4,965.48	43%
	01-461-220-0000	FIRE/RES - AMBULANCE EXPENSES	10,000.00	0.00	4,202.48	5,797.52	42%	10,000.00	1,448.08	5,290.59	4,709.41	53%
	01-461-301-0000	FIRE/RES - COMMUNICATION SERVICES	5,800.00	935.30	4,001.99	1,798.01	69%	6,500.00	548.27	4,307.87	2,192.13	68%
	01-461-310-0002	FIRE/RES - DUES/SUBSCRIPTIONS	5,800.00	0.00	4,193.95	1,606.05	72%	4,200.00	0.00	2,445.99	1,754.01	58%
	01-461-310-0055	FIRE/RES - FIRE PREVENTION	900.00	0.00	165.75	734.25						

Town of Newmarket, New Hampshire
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For the Period Ended February, 2018

Fiscal Year 2018							Fiscal Year 2017					
Function	Account Number	ACCOUNT DESCRIPTION	Budget	Month to Date Transactions	Year to Date Transactions	Balance Year	Percent Used	Budget	Month to Date Transactions	Year to Date Transactions	Balance Year	Percent Used
Emergency	01-463-103-0000	EM - PART TIME SALARIE	750.00	0.00	0.00	750.00	0%	750.00	0.00	750.00	0.00	100%
	01-463-190-0000	EM - TRAINING/STAFF DE	750.00	0.00	0.00	750.00	0%	750.00	0.00	0.00	750.00	0%
	01-463-202-0000	EM - GENERAL SUPPLIES	1,500.00	0.00	0.00	1,500.00	0%	450.00	0.00	0.00	450.00	0%
			3,000.00	0.00	0.00	3,000.00	0%	1,950.00	0.00	750.00	1,200.00	38%
Grants	01-480-812-0000	GRANTS - MEM DAY PARADE	2,000.00	0.00	1,592.00	408.00	80%	2,000.00	0.00	0.00	2,000.00	0%
	01-480-813-0000	GRANTS - FESTIVAL SUPPORT	8,500.00	0.00	0.00	8,500.00	0%	0.00	0.00	0.00	0.00	0%
	01-480-814-0000	GRANTS - NWMKT ATHLETIC ASSOC	21,500.00	0.00	21,500.00	0.00	100%	21,500.00	0.00	21,500.00	0.00	100%
	01-480-815-0000	GRANTS - NWMKT SENIOR CITIZENS	2,000.00	0.00	0.00	2,000.00	0%	2,000.00	0.00	2,000.00	0.00	100%
	01-480-816-0000	GRANTS - NWMKT HISTORICAL SOCIETY	2,000.00	0.00	2,000.00	0.00	100%	2,000.00	0.00	2,000.00	0.00	100%
	01-480-817-0000	GRANTS - C.O.A.S.T.	23,000.00	0.00	20,000.00	3,000.00	87%	23,000.00	0.00	21,005.00	1,995.00	91%
	01-480-818-0000	GRANTS - VETERANS MEMORIAL	500.00	0.00	0.00	500.00	0%	500.00	0.00	0.00	500.00	0%
	01-480-819-0000	GRANTS - NWMKT HANDYUS ASSOC.	2,000.00	0.00	0.00	2,000.00	0%	2,000.00	0.00	0.00	2,000.00	0%
			61,500.00	0.00	45,092.00	16,408.00	73%	53,000.00	0.00	46,505.00	6,495.00	88%
Social Service Grant	01-481-910-0000	SS GRANTS- RICHIE MCFARLAND	4,000.00	0.00	4,000.00	0.00	100%	2,000.00	0.00	2,000.00	0.00	100%
	01-481-913-0000	SS GRANTS- LAMPREY HEALTH CENTER	10,403.00	0.00	10,403.00	0.00	100%	10,403.00	0.00	10,403.00	0.00	100%
	01-481-915-0000	SS GRANTS- CHILD & FAMILY SERVICE	4,000.00	0.00	4,000.00	0.00	100%	4,000.00	0.00	0.00	4,000.00	0%
	01-481-916-0000	SS GRANTS- R.C.C.A.P.	9,000.00	0.00	9,000.00	0.00	100%	9,000.00	0.00	9,000.00	0.00	100%
	01-481-917-0000	SS GRANTS- R.S.V.P.	0.00	0.00	600.00	-600.00	0%	600.00	0.00	600.00	0.00	100%
	01-481-918-0000	SS GRANTS- A SAFE PLACE	2,200.00	0.00	0.00	2,200.00	0%	1,200.00	0.00	0.00	1,200.00	0%
	01-481-919-0000	SS GRANTS- BIG BROTHER/BIG SISTER	1,000.00	0.00	0.00	1,000.00	0%	1,000.00	0.00	0.00	1,000.00	0%
	01-481-920-0000	SS GRANTS - SEACOAST MENTAL HEALTH	2,000.00	0.00	2,000.00	0.00	100%	2,000.00	0.00	0.00	2,000.00	0%
	01-481-923-0000	SS GRANTS - LINKED TOGETHER	0.00	0.00	0.00	0.00	0%	4,000.00	0.00	0.00	4,000.00	0%
	01-481-924-0000	SS GRANTS - ROCKINGHAM COUNTY NUTR	5,700.00	0.00	5,700.00	0.00	100%	5,326.00	0.00	5,623.00	-297.00	106%
	01-481-925-0000	SS GRANTS - AIDS RESPONSE	500.00	0.00	0.00	500.00	0%	500.00	0.00	0.00	500.00	0%
	01-481-926-0000	SS GRANTS - AMERICAN RED CROSS	1,000.00	0.00	0.00	1,000.00	0%	1,000.00	1,000.00	1,000.00	0.00	100%
	01-481-927-0000	SS GRANTS - READY RIDES	1,500.00	0.00	1,500.00	0.00	100%	1,500.00	0.00	1,500.00	0.00	100%
	01-481-929-0000	OTHER GRANTS - CHILDO ADVOCACY CENTER	1,000.00	0.00	0.00	1,000.00	0%	500.00	1,000.00	1,000.00	-500.00	200%
	01-481-933-0000	OTHER GRANTS -CROSS ROADS HOUSE	1,000.00	0.00	0.00	1,000.00	0%	0.00	0.00	0.00	0.00	0%
		43,303.00	0.00	37,203.00	6,100.00	86%	43,029.00	2,000.00	31,126.00	11,903.00	72%	
Capital Reserve	01-490-900-0011	CAP RES- REVALUATION	10,000.00	0.00	10,000.00	0.00	100%	10,000.00	0.00	10,000.00	0.00	100%
	01-490-900-0012	CAP RES- FIRE DEPARTMENT	50,000.00	0.00	50,000.00	0.00	100%	50,000.00	0.00	50,000.00	0.00	100%
	01-490-900-0013	CAP RES- ROADWAY IMPROVEMENTS	175,000.00	0.00	175,000.00	0.00	100%	125,000.00	0.00	125,000.00	0.00	100%
	01-490-900-0016	CAP RES- PUBLIC WORKS	50,000.00	0.00	50,000.00	0.00	100%	80,000.00	0.00	80,000.00	0.00	100%
	01-490-900-0017	CAP RES- POLICE VEHICLES	48,000.00	0.00	48,000.00	0.00	100%	48,000.00	0.00	48,000.00	0.00	100%
	01-490-900-0019	CAP RES - BUILDING IMPROVEMENT	50,000.00	0.00	50,000.00	0.00	100%	50,000.00	0.00	50,000.00	0.00	100%
	01-490-900-0021	CAP RES - RECREATION FACILITIES	18,666.00	0.00	18,666.00	0.00	100%	18,666.00	0.00	18,666.00	0.00	100%
	01-490-900-0028	CAP RES- MASTER PLAN	10,000.00	0.00	10,000.00	0.00	100%	10,000.00	0.00	10,000.00	0.00	100%
	01-490-900-0036	CAP RES- VETERANS MEMORIAL	2,000.00	0.00	2,000.00	0.00	100%	2,000.00	0.00	2,000.00	0.00	100%
	01-490-900-0074	CAP RES - POLICE DISPATCH EQUIP	29,449.00	0.00	29,449.00	0.00	100%	29,449.00	0.00	29,449.00	0.00	100%
	01-490-900-0079	CAP RES - MACALLEN DAM	50,000.00	0.00	50,000.00	0.00	100%	75,000.00	0.00	75,000.00	0.00	100%
	01-490-900-0085	CAP RES - STORM WATER MANAGEMENT	50,000.00	0.00	50,000.00	0.00	100%	75,000.00	0.00	75,000.00	0.00	100%
	01-490-900-0086	CAP RES - 300TH ANNIV.CELEBRATION EXP.TI	2,000.00	0.00	2,000.00	0.00	100%	2,000.00	0.00	2,000.00	0.00	100%
	01-490-900-0087	CAP RES - COMPENSATED ABSENCE EXP.TRI	10,000.00	0.00	10,000.00	0.00	100%	0.00	0.00	0.00	0.00	0%
		555,115.00	0.00	555,115.00	0.00	100%	575,115.00	0.00	575,115.00	0.00	100%	
General Fund			7,289,072.00	452,644.85	5,049,322.62	2,239,749.38	69%	6,880,668.00	440,014.02	4,660,737.86	2,219,930.14	68%

Town of Newmarket, New Hampshire
Preliminary Expense Report^{AB}
For the Period Ended February, 2018

Fiscal Year 2018							Fiscal Year 2017					
Function	Account Number	ACCOUNT DESCRIPTION	Budget	Month to Date Transactions	Year to Date Transactions	Balance Year	Percent Used	Budget	Month to Date Transactions	Year to Date Transactions	Balance Year	Percent Used
Library	02-480-101-0000	LIBRARY - SALARIES	54,100.00	4,236.92	36,013.82	18,086.18	67%	54,100.00	6,747.80	36,366.90	17,733.10	67%
	02-480-103-0000	LIBRARY - PART TIME SALARIES	110,363.00	8,662.40	73,071.40	37,291.60	66%	108,013.00	9,361.56	72,749.96	35,263.04	67%
	02-480-150-0000	LIBRARY - FICA	9,161.00	823.38	6,951.21	2,209.79	78%	9,571.00	1,022.36	6,944.99	2,626.01	73%
	02-480-151-0000	LIBRARY - MEDICARE	2,143.00	192.58	1,625.73	517.27	76%	2,238.00	239.09	1,624.22	613.78	73%
	02-480-155-0000	LIBRARY - HEALTH INSURANCE	15,000.00	481.91	3,855.28	11,144.72	26%	15,000.00	481.91	3,855.28	11,144.72	26%
	02-480-156-0000	LIBRARY - RETIREMENT	5,811.00	482.16	4,496.37	1,314.63	77%	6,043.00	753.73	4,051.54	1,991.46	67%
	02-480-159-0000	LIBRARY - LIFE & DISABILITY	1,369.00	88.84	533.04	835.96	39%	750.00	18.00	570.24	179.76	76%
	02-480-160-0000	LIBRARY-WORKERS COMPENSATION	1,500.00	0.00	1,271.82	228.18	85%	1,500.00	0.00	1,500.00	0.00	100%
	02-480-161-0000	LIBRARY - UNEMPLOYMENT	1,011.00	0.00	660.64	350.36	65%	2,495.00	0.00	918.76	1,576.24	37%
	02-480-190-0000	LIBRARY - TRAINING/STAFF DEVELOPMENT	2,000.00	0.00	642.40	1,357.60	32%	2,000.00	130.00	670.00	1,330.00	34%
	02-480-202-0000	LIBRARY - GENERAL SUPPLIES	4,927.00	522.89	2,554.91	2,372.09	52%	5,000.00	283.80	3,302.09	1,697.91	68%
	02-480-301-0000	LIBRARY - TELEPHONE	1,800.00	228.35	1,102.03	697.97	61%	1,800.00	125.97	999.90	800.10	95%
	02-480-302-0000	LIBRARY - ELECTRICITY	12,000.00	642.91	4,816.01	7,183.99	40%	12,000.00	0.00	5,500.97	6,499.03	46%
	02-480-303-0000	LIBRARY - HEAT & OIL	10,000.00	878.00	2,962.10	7,037.90	30%	12,000.00	621.44	2,486.97	9,513.03	21%
	02-480-304-0000	LIBRARY - WATER	700.00	86.75	313.33	386.67	45%	700.00	179.88	556.22	143.78	79%
	02-480-310-0005	LIBRARY - BOOKS/SUBSCRIPTIONS	40,970.00	3,186.39	26,996.24	13,973.76	66%	39,394.00	4,642.47	30,186.86	9,207.14	73%
	02-480-330-0000	LIBRARY - ELECTRONIC INFO- OTHER	9,500.00	0.00	7,456.00	2,044.00	58%	9,500.00	0.00	9,541.00	-41.00	100%
	02-480-350-0000	LIBRARY - PROGRAMS	4,000.00	418.40	2,466.93	1,533.07	62%	2,000.00	345.00	1,589.97	410.03	79%
	02-480-401-0000	LIBRARY - BUILDING MAINTENANCE	23,000.00	751.85	7,479.75	15,520.25	33%	23,000.00	307.22	102,404.75	-79,404.75	445%
	02-480-402-0000	LIBRARY - EQUIPMENT MAINTENANCE/LEASE	600.00	563.30	821.30	-221.30	137%	600.00	43.00	305.22	294.78	51%
	02-480-504-0000	LIBRARY-PROPERTY LIABILITY INS	5,000.00	0.00	4,234.65	765.35	85%	5,000.00	0.00	5,000.00	0.00	100%
	02-480-800-0000	LIBRARY - EQUIPMENT PURCHASE	2,000.00	0.00	1,189.57	810.43	59%	2,000.00	88.98	547.96	1,452.04	27%
	02-800-202-0000	LIBRARY-LIB TRUSTEE GENERAL SUPPLIES	0.00	377.20	1,262.20	-1,262.20	0%	0.00	0.00	0.00	0.00	0%
Library			316,955.00	22,625.23	192,776.73	124,178.27	61%	314,704.00	25,392.21	291,673.80	23,030.20	93%
Recreation	05-406-101-0000	RECREATION - FULL TIME SALARIES	0.00	735.84	6,264.09	-6,264.09	0%	0.00	0.00	0.00	0.00	0%
	05-406-103-0000	RECREATION - PART TIME SALARIES	142,420.00	1,710.75	94,211.21	48,208.79	66%	124,440.00	2,681.00	80,701.30	43,738.70	65%
	05-406-111-0000	RECREATION - WORK STUDY	1,000.00	0.00	-2,460.00	3,460.00	-246%	2,000.00	0.00	0.00	2,000.00	0%
	05-406-150-0000	RECREATION - FICA	8,830.00	146.48	6,185.22	2,644.78	70%	7,715.00	166.22	5,080.33	2,634.67	65%
	05-406-151-0000	RECREATION - MEDI	2,065.00	34.28	1,446.64	618.36	70%	1,804.00	38.89	1,188.28	615.72	66%
	05-406-156-0000	REC - NH RETIREMENT	0.00	83.74	712.89	-712.89	0%	0.00	0.00	0.00	0.00	0%
	05-406-190-0000	RECREATION - TRAINING/STAFF DEVELOPME	2,500.00	0.00	40.66	2,459.34	2%	2,000.00	0.00	785.00	1,215.00	39%
	05-406-192-0000	RECREATION - MEAL ALLOWANCE	350.00	0.00	384.77	-34.77	110%	350.00	0.00	151.35	198.65	43%
	05-406-201-0000	RECREATION - POSTAGE	600.00	0.00	72.86	527.14	12%	1,000.00	0.46	48.63	951.37	5%
	05-406-202-0000	RECREATION - GENERAL SUPPLIES	1,500.00	68.64	340.99	1,159.01	23%	1,650.00	343.99	1,207.13	442.87	73%
	05-406-202-0034	RECREATION - ATHLETIC SUPPLIES	3,000.00	0.00	94.98	2,905.02	3%	8,830.00	16.70	2,499.11	6,330.89	28%
	05-406-202-0036	RECREATION - CLASS SUPPLIES	10,000.00	612.41	12,862.27	-2,862.27	128%	2,954.00	652.85	5,465.94	-2,511.94	185%
	05-406-302-0000	RECREATION - ELECTRICITY	0.00	0.00	75.26	-75.26	0%	0.00	0.00	115.93	-115.93	0%
	05-406-302-0001	RECREATION - FIELD LIGHTS	2,000.00	73.88	2,534.50	-534.50	127%	5,000.00	73.80	2,647.61	2,352.39	53%
	05-406-310-0002	RECREATION - DUES/SUBSCRIPTIONS	150.00	0.00	331.99	-181.99	221%	150.00	0.00	170.02	-20.02	113%
	05-406-310-0003	RECREATION - ADVERTISING	300.00	0.00	50.95	249.05	17%	800.00	0.00	0.00	800.00	0%
	05-406-402-0000	RECREATION - EQUIPMENT MAINTENANCE/L	2,300.00	0.00	219.50	2,080.50	10%	2,000.00	0.00	1,384.62	615.38	69%
	05-406-460-0000	RECREATION - BANK FEES	3,150.00	244.48	2,865.74	284.26	91%	0.00	152.26	2,311.02	-2,311.02	0%
	05-406-501-0000	RECREATION - PRINTING & PUBLISHING	5,000.00	0.00	234.94	4,765.06	5%	8,163.00	0.00	0.00	8,163.00	0%
	05-406-508-0000	RECREATION - BUS TRIPS	50,000.00	42.82	35,870.57	14,129.43	72%	36,000.00	2,486.73	26,162.09	9,837.91	73%
	05-406-702-0000	RECREATION - CONTRACTUAL SERVICES	5,000.00	1,883.00	5,434.70	-434.70	109%	5,000.00	0.00	3,659.40	1,340.60	73%
	05-406-800-0000	RECREATION - EQUIPMENT PURCHASE	3,000.00	0.00	556.28	2,443.72	19%	3,000.00	0.00	455.95	2,544.05	15%
	05-406-902-0000	RECREATION - SUMMER CAMP	12,000.00	527.50	10,835.29	1,164.71	90%	9,000.00	0.00	13,236.34	-4,236.34	147%
	05-406-902-0037	RECREATION - TEEN CAMP	3,000.00	0.00	1,836.56	1,163.44	61%	2,500.00	0.00	1,343.94	1,156.06	54%
	05-406-904-0000	RECREATION - SUNRISE SUNSET SR CTR	4,180.00	419.38	2,236.13	1,943.87	53%	3,927.00	199.50	1,800.25	2,126.75	46%
	05-406-905-0000	RECREATION - SPLASH PAD	3,770.00	3,245.04	5,245.04	-1,475.04	139%	5,000.00	0.00	0.00	5,000.00	0%
	05-406-906-0000	RECREATION - SPECIAL EVENTS	13,000.00	1,396.43	11,761.20	1,238.80	90%	10,150.00	1,873.67	9,455.58	694.42	93%
Recreation			279,115.00	11,224.67	200,245.23	78,869.77	72%	243,433.00	8,686.02	159,869.82	83,563.18	66%
Solid Waste	07-450-103-0000	SW - PART TIME	11,550.00	906.44	7,895.32	3,654.68	68%	11,156.00	888.46	7,784.34	3,371.66	70%
	07-450-202-0000	SW - GENERAL SUPPLIES	25,000.00	11,954.69	17,060.70	7,939.30	68%	15,000.00	71.87	12,708.21	2,291.79	85%
	07-450-310-0000	SW - DUES/SUBSCRIPTIONS	800.00	0.00	0.00	800.00	0%	800.00	0.00	0.00	800.00	0%
	07-450-402-0000	SW - EQUIPMENT LEASE	1,200.00	50.00	900.00	300.00	75%	1,200.00	50.00	1,000.00	200.00	83%
	07-450-403-0000	SW - VEHICLE MAINTENANCE	2,000.00	0.00	0.00	2,000.00	0%	6,500.00	0.00	0.00	6,500.00	0%
	07-450-501-0000	SW - PRINTING & PUBLICATION	500.00	0.00	0.00	500.00	0%	500.00	0.00	0.00	500.00	0%
	07-450-532-0000	SW - FREON REMOVAL	1,500.00	0.00	1,048.00	452.00	70%	2,300.00	0.00	1,179.00	1,121.00	51%
	07-450-536-0000	SW - HOUSEHOLD HAZARDOUS	0.00	0.00	0.00	0.00	0%	10,000.00	0.00	11,543.07	-1,543.07	115%
	07-450-702-0047	SW - LAMPREY REG. CO-OP	2,100.00	0.00	2,028.08	71.92	97%	2,100.00	0.00	0.00	2,100.00	0%
	07-450-702-0048	SW - MSW CONTRACT	165,000.00	20,619.18	122,569.05	42,430.95	74%	163,000.00	15,448.70	96,381.47	66,618.53	59%
	07-450-702-0049	SW - RECYCLING CONTRACT	160,000.00	21,689.30	127,041.33	32,958.67	79%	152,000.00	17,029.14	119,545.10	32,454.90	79%
	07-450-702-0050	SW - CONSTRUCTION DEBRIS	54,000.00	2,445.62	29,639.28	24,360.72	55%	47,000.00	2,387.39	31,252.93	15,747.07	66%
	07-450-702-0051	SW - POST CLOSURE LANDFILL TEST	35,000.00	0.00	13,315.72	21,684.28	38%	30,000.00	1,927.65	23,882.32	6,117.68	20%
	07-450-800-0000	SW - EQUIPMENT PURCHASE	5,800.00	0.00	0.00	5,800.00	0%	5,800.00	0.00	0.00	5,800.00	0%
Solid Waste			464,450.00	57,665.23	321,497.48	142,952.52	69%	447,356.00	37,803.21	305,276.44	142,079.56	68%

Town of Newmarket, New Hampshire
Preliminary Expense Report^{1a,b}
For the Period Ended February, 2018

Fiscal Year 2018								Fiscal Year 2017					
Function	Account Number	ACCOUNT DESCRIPTION	Budget	Month to Date Transactions	Year to Date Transactions	Balance Year	Percent Used	Budget	Month to Date Transactions	Year to Date Transactions	Balance Year	Percent Used	
Water	20-451-101-0000	WATER - FULL TIME SALARIES	150,631.00	10,786.92	91,153.11	59,477.89	61%	131,004.00	9,646.34	83,765.46	47,238.54	64%	
	20-451-102-0000	WATER - OVERTIME	10,000.00	700.50	10,826.39	-826.39	108%	10,000.00	821.14	6,285.54	3,714.46	63%	
	20-451-103-0000	WATER - PART TIME SALARIES	0.00	344.40	2,926.42	-2,926.42	0%	8,487.00	336.00	1,735.11	6,751.89	20%	
	20-451-150-0000	WATER - FICA	8,490.00	675.31	6,043.95	2,446.05	71%	8,150.00	612.04	5,233.93	2,916.07	64%	
	20-451-151-0000	WATER - MEDICARE	1,986.00	157.95	1,411.24	574.76	71%	1,906.00	143.15	1,217.58	688.42	64%	
	20-451-155-0000	WATER - HEALTH INSURANCE	55,875.00	3,551.00	31,959.00	23,916.00	57%	47,153.00	3,416.64	27,333.12	19,819.88	58%	
	20-451-156-0000	WATER - RETIREMENT	15,077.00	1,290.22	11,203.60	3,873.40	74%	14,157.00	1,158.04	10,029.80	4,127.20	71%	
	20-451-159-0000	WATER - LIFE/DISABILITY INSURANCE	1,316.00	105.14	630.84	685.16	48%	1,542.00	18.00	725.02	816.98	47%	
	20-451-160-0000	WATER - WORKERS COMPENSATION	5,000.00	0.00	4,239.41	760.59	85%	4,939.00	0.00	4,939.00	0.00	100%	
	20-451-161-0000	WATER - UNEMPLOYMENT	892.00	0.00	583.02	308.98	65%	2,201.00	0.00	810.35	1,390.65	37%	
	20-451-190-0000	WATER - TRAINING/STAFF DEVELOPMENT	2,000.00	1,300.82	1,364.38	635.62	68%	2,000.00	777.00	862.64	1,137.36	63%	
	20-451-193-0000	WATER - UNIFORMS	2,500.00	118.24	936.94	1,563.06	37%	2,500.00	96.57	1,330.41	1,169.59	55%	
	20-451-198-0000	WATER - LONGEVITY	1,318.00	0.00	1,012.50	305.50	77%	1,013.00	0.00	1,012.50	0.50	100%	
	20-451-201-0000	WATER - POSTAGE	3,700.00	1.58	1,438.16	2,261.84	39%	6,500.00	521.87	1,539.07	4,960.93	24%	
	20-451-202-0000	WATER - GENERAL SUPPLIES	3,500.00	613.38	2,666.10	833.90	76%	3,000.00	354.00	1,141.18	1,858.82	38%	
	20-451-202-0002	WATER - DUES/SUBSCRIPTIONS	1,050.00	35.00	714.00	336.00	68%	1,050.00	105.00	198.00	852.00	19%	
	20-451-202-0003	WATER - ADVERTISING	2,500.00	0.00	308.89	2,191.11	12%	2,500.00	0.00	0.00	2,500.00	0%	
	20-451-209-0000	WATER - GASOLINE	3,700.00	224.02	1,613.15	2,086.85	44%	3,700.00	214.98	1,641.92	2,058.08	44%	
	20-451-211-0000	WATER - LP GAS	20,000.00	1,385.01	6,507.25	13,492.75	33%	20,000.00	1,887.34	5,729.44	14,270.56	29%	
	20-451-217-0000	WATER - CHEMICALS	23,000.00	5.54	14,242.13	8,757.87	62%	18,000.00	0.00	11,256.56	6,743.44	63%	
	20-451-301-0000	WATER - COMMUNICATION SERVICES	3,800.00	451.35	3,300.71	499.29	87%	3,800.00	200.78	2,096.67	1,703.33	55%	
	20-451-302-0000	WATER - ELECTRICITY	54,000.00	4,902.84	33,500.91	20,499.09	62%	53,000.00	5,328.28	30,298.13	22,701.87	57%	
	20-451-401-0000	WATER - BUILDING MAINTENANCE	7,000.00	237.50	3,953.42	3,046.58	56%	7,000.00	504.12	4,035.50	2,964.50	58%	
	20-451-402-0000	WATER - EQUIPMENT MAINTENANCE/LEASE	4,000.00	0.00	766.5	3,233.5	2%	4,000.00	0.00	0.00	4,000.00	0%	
	20-451-403-0000	WATER - VEHICLE MAINTENANCE	5,000.00	0.00	676.72	4,323.28	14%	5,000.00	15.00	624.22	4,375.78	12%	
	20-451-406-0000	WATER - SYSTEM MAINTENANCE	50,000.00	7,505.36	26,806.85	23,193.15	54%	50,000.00	604.92	25,881.07	24,118.93	52%	
	20-451-504-0000	WATER - PROPERTY/LIABILITY INSURANCE	5,179.00	0.00	4,377.64	801.36	85%	5,179.00	0.00	5,179.00	0.00	100%	
	20-451-702-0000	WATER - CONTRACTED SERVICES	15,000.00	730.00	8,332.75	6,667.25	56%	10,000.00	302.50	7,624.85	2,375.15	76%	
	20-451-703-0000	WATER - AUDIT	3,484.00	1,306.10	4,384.50	-900.50	126%	3,484.00	0.00	3,484.00	0.00	100%	
	20-451-704-0000	WATER - ENGINEERING	25,000.00	3,915.10	6,568.27	18,431.73	26%	25,000.00	847.44	4,211.85	20,788.15	17%	
	20-451-900-0000	WATER - TRANSFER TO CAPITAL RESERVE	364,000.00	0.00	364,000.00	0.00	100%	364,000.00	0.00	364,000.00	0.00	100%	
	20-451-950-0000	WATER - BONDS & NOTES PRINCIPLE	152,854.00	0.00	131,661.13	21,192.87	86%	52,750.00	0.00	0.00	52,750.00	0%	
	20-451-951-0000	WATER - BONDS & NOTES INTEREST	115,928.00	0.00	69,123.06	46,804.94	60%	39,798.00	0.00	0.00	39,798.00	0%	
	20-451-954-0000	WATER - LAND ACQUISITION	20,000.00	0.00	20,000.00	0.00	100%	20,000.00	15,000.00	35,000.00	-15,000.00	175%	
Water			1,137,780.00	40,343.28	868,543.09	269,236.91	76%	932,813.00	42,911.15	649,221.92	283,591.08	70%	
Sewer	30-471-101-0000	WW - FULL TIME SALARIES	247,661.00	21,204.20	158,273.68	89,387.32	64%	230,469.00	16,892.74	145,740.90	84,728.10	63%	
	30-471-102-0000	WASTEWATER-OVERTIME	19,000.00	1,398.84	13,497.00	5,503.00	71%	19,000.00	2,094.27	10,657.67	8,342.33	56%	
	30-471-103-0000	WASTEWATER PART TIME SALARIES	0.00	352.40	2,934.42	-2,934.42	0%	8,487.00	336.00	1,735.28	6,751.72	20%	
	30-471-150-0000	WASTEWATER - FICA	15,842.00	1,289.80	9,981.31	5,860.69	63%	14,204.00	1,095.15	9,194.17	5,009.83	65%	
	30-471-151-0000	WASTEWATER - MEDICARE	3,705.00	301.66	2,334.43	1,370.57	63%	3,322.00	256.10	2,150.35	1,171.65	65%	
	30-471-155-0000	WASTEWATER - HEALTH INSURANCE	97,362.00	9,851.73	59,059.09	38,302.91	61%	71,120.00	5,918.10	47,344.82	23,775.18	67%	
	30-471-156-0000	WASTEWATER - RETIREMENT	26,328.00	2,543.76	19,686.10	6,641.90	75%	24,674.00	2,087.34	17,745.08	6,928.92	72%	
	30-471-159-0000	WASTEWATER - LIFE/DISABILITY INSURANCE	1,923.00	200.92	1,205.52	717.48	63%	2,195.00	36.00	1,257.44	937.56	57%	
	30-471-160-0000	WASTEWATER - WORKERS COMPENSATION	6,000.00	0.00	5,087.29	912.71	85%	5,899.00	0.00	5,899.00	0.00	100%	
	30-471-161-0000	WASTEWATER - UNEMPLOYMENT INSURANCE	1,279.00	0.00	835.71	443.29	65%	3,157.00	0.00	1,162.68	1,994.32	37%	
	30-471-162-0000	WASTEWATER - EMPLOYEE TESTING	750.00	0.00	0.00	750.00	0%	750.00	0.00	0.00	750.00	0%	
	30-471-190-0000	WASTEWATER - TRAINING/STAFF DEVELOPMENT	5,000.00	213.60	3,127.96	1,872.04	63%	5,000.00	75.97	2,808.36	2,191.64	56%	
	30-471-193-0000	WASTEWATER - UNIFORMS	4,100.00	837.64	2,750.36	1,349.64	67%	3,700.00	1,193.36	4,177.78	-477.78	113%	
	30-471-198-0000	SEWER - LONGEVITY	1,993.00	0.00	1,912.50	80.50	96%	1,913.00	0.00	1,687.50	225.50	88%	
	30-471-201-0000	WASTEWATER - POSTAGE	3,700.00	1.57	1,443.52	2,256.48	29%	6,500.00	521.87	2,275.23	4,224.77	35%	
	30-471-202-0000	WASTEWATER - GENERAL SUPPLIES	4,000.00	276.28	4,680.97	-680.97	117%	3,000.00	253.49	3,648.71	-648.71	122%	
	30-471-202-0002	WASTEWATER- DUES/SUBSCRIPTIONS	900.00	454.00	870.92	29.08	97%	800.00	0.00	210.00	590.00	26%	
	30-471-202-0003	WASTEWATER- ADVERTISING	2,900.00	0.00	496.00	2,404.00	17%	2,000.00	0.00	0.00	2,000.00	0%	
	30-471-209-0000	WASTEWATER - GASOLINE	5,000.00	131.50	775.48	4,224.52	16%	5,000.00	201.93	941.88	4,058.12	19%	
	30-471-215-0000	WASTEWATER - LP SUPPLIES	30,000.00	541.92	16,963.66	13,036.34	57%	30,000.00	949.83	15,266.41	14,733.59	51%	
	30-471-217-0000	WASTEWATER - CHEMICALS	45,000.00	2,781.00	14,492.60	30,507.40	32%	53,000.00	2,069.64	15,336.16	37,663.84	29%	
	30-471-301-0000	WASTEWATER - COMMUNICATION SERVICES	8,000.00	734.31	4,910.00	3,090.00	61%	6,800.00	318.19	3,460.53	3,339.47	51%	
	30-471-302-0000	WASTEWATER - ELECTRICITY	175,000.00	9,291.42	56,523.10	118,476.90	32%	144,000.00	10,126.20	54,745.41	89,254.59	38%	
	30-471-303-0000	WASTEWATER - HEAT & OIL	25,000.00	7,011.7	12,843.56	12,156.44	51%	35,000.00	0.00	3,364.32	31,635.68	10%	
	30-471-401-0000	WASTEWATER - BUILDING MAINTENANCE	25,000.00	2,061.42	38,046.95	-13,046.95	152%	25,000.00	3,732.35	14,894.55	10,105.45	60%	
	30-471-402-0000	WW - EQUIPMENT MAINTENANCE	0.00	0.00	76.65	-76.65	0%	0.00	0.00	0.00	0.00	0%	
	30-471-403-0000	WASTEWATER - VEHICLE MAINTENANCE	5,000.00	326.91	5,706.85	-706.85	114%	5,000.00	0.00	2,125.54	2,874.46	43%	
	30-471-406-0000	WASTEWATER - SYSTEM MAINTENANCE	50,000.00	520.45	32,726.76	17,273.24	65%	50,000.00	4,041.54	20,212.86	29,787.14	40%	
	30-471-504-0000	WASTEWATER - PROPERTY/LIABILITY INSURANCE	10,575.00	0.00	8,942.27	1,632.73	85%	10,575.00	0.00	10,575.00	0.00	100%	
	30-471-538-0000	WASTEWATER - SLUDGE DISPOSAL	110,000.00	11,196.95	33,451.80	76,548.20	30%	55,000.00	754.28	11,446.09	43,553.91	21%	
	30-471-602-0000	WASTE WATER - LEGAL EXPENSES	0.00	15,500.00	15,500.00	-15,500.00	0%	0.00	0.00	0.00	0.00	0%	
	30-471-702-0000	WASTEWATER - CONTRACT SERVICES	17,000.00	1,109.00	6,711.14	10,278.86	40%	13,000.00	0.00	4,502.50	8,497.50	35%	
	30-471-703-0000	WASTEWATER-AUDIT	3,425.00	1,284.10	4,310.50	-885.50	126%	3,425.00	0.00	3,425.00	0.00	100%	
	30-471-704-0000	WASTEWATER - ENGINEERING	30,000.00	0.00	6,085.07	23,914.93	20%	30,000.00	0.00	15,076.31	14,923.69	50%	
	30-471-804-0000	WASTEWATER - NPDES PERMITS	100,000.00	0.00	0.00	100,000.00	0%	0.00	0.00	0.00	0.00	0%	
	30-471-900-0000	WASTEWATER - TRANSFER TO CAPITAL RESERVE	275,700.00	0.00	275,700.00	0.00	100%	174,200.00	0.00	174,200.00	0.00	100%	
	30-471-950-0000	WW - BONDS & NOTES PRINCIPLE	516,140.00	198,847.00	301,387.06	214,752.94	58%	102,540.00	0.00	102,540.00	-0.00	100%	
	30-471-951-0000	WW - BONDS & NOTES INTEREST	309,143.00	135,712.50	289,882.94	19,260.06	94%	29,238.00	0.00	29,236.91	1.09	100%	
Sewer			2,182,426.00	419,666.05	1,413,273.17	769,202.83	69%	1,177,968.00	52,954.35	739,044.50	438,923.50	63%	
Total Operating Budget			11,669,798.00	1,004,169.31	8,045,608.32	3,624,189.68	69%	9,996,942.0					

Revenue Report ^{ab}
For the Period Ended February 28, 2018

			Fiscal Year 2018				Fiscal Year 2017					
Function	Account Number	ACCOUNT DESCRIPTION	Budget	Month to Date Transactions	Year to Date Transactions	Balance Year	Percent Collected	Budget	Month to Date Transactions	Year to Date Transactions	Balance Year	Percent Collected
Pilot, Interest on Taxes			20,010,595.00	23,225.21	19,962,046.89	48,548.11	100%	18,541,324.00	6,951.24	18,506,542.60	34,781.40	100%
Licenses, Permits and Fees			1,666,300.00	204,438.15	1,222,480.89	443,819.11	73%	1,566,300.00	169,966.00	1,230,533.20	325,766.80	79%
From State			697,977.00	0.00	815,860.33	-117,883.33	117%	659,414.00	0.00	625,030.57	34,383.43	95%
Charges for Services			180,700.00	60,007.09	174,130.15	6,569.85	96%	153,348.00	15,551.03	107,322.65	46,025.35	70%
Misc. Rev. Includes Int. Rev.			14,000.00	-5,368.37	17,957.48	-3,957.48	128%	69,601.00	1,470.05	105,372.54	-35,771.54	151%
Fund Balance			600,000.00	0.00	600,000.00	0.00	100%	500,000.00	0.00	500,000.00	0.00	100%
Recreation			279,115.00	17,636.96	134,674.21	144,440.79	48%	243,433.00	11,796.86	101,847.62	141,585.38	42%
Solid Waste			250,000.00	11,962.70	847,781.38	-597,781.38	339%	230,000.00	17,768.89	391,827.96	-161,827.96	170%
Water			1,137,780.00	7,166.83	698,994.15	438,785.85	61%	932,813.00	205,434.63	705,083.64	227,729.36	76%
Sewer			2,140,051.00	790.50	1,362,616.94	777,434.06	64%	1,159,007.00	402,091.89	1,208,708.01	-49,701.01	104%
Total Revenues			26,976,518.00	319,859.07	25,836,542.42	1,139,975.58	96%	24,045,240.00	831,030.59	23,462,268.79	562,971.21	98%

Revenue Report^{ab}
For the Period Ended February 28, 2018

Function	Account Number	ACCOUNT DESCRIPTION	Fiscal Year 2018					Fiscal Year 2017				
			Budget	Month to Date Transactions	Year to Date Transactions	Balance Year	Percent Collected	Budget	Month to Date Transactions	Year to Date Transactions	Balance Year	Percent Collected
	01-310-000-1001	REAL ESTATE TAXES	19,905,115.00	0.00	19,913,542.71	-8,427.71	100%	18,454,468.00	0.00	18,458,884.00	-4,416.00	100%
	01-310-000-1003	LAND USE CHANGE TAX	3,755.00	17,250.00	30,000.00	-26,245.00	799%	3,755.00	0.00	16,057.50	-12,302.50	428%
	01-310-000-1004	YIELD TAXES	1,500.00	0.00	1,125.41	374.59	75%	1,500.00	0.00	0.00	1,500.00	0%
	01-310-000-1005	PAYMENTS IN LIEU OF TAXES	23,225.00	0.00	3,655.41	19,569.59	16%	19,175.00	0.00	3,690.66	15,484.34	19%
	01-310-000-1006	INTEREST & PENALTIES ON CURRENT PROI	40,000.00	5,061.65	15,862.17	24,137.83	40%	27,000.00	5,441.23	17,034.07	9,965.93	63%
	01-310-000-1007	REDEMPTION INTEREST	57,000.00	913.56	17,861.19	39,138.81	31%	60,000.00	1,510.01	30,377.23	29,622.77	51%
	01-310-000-1010	OVERLAY	-20,000.00	0.00	-20,000.00	0.00	100%	-24,574.00	0.00	-24,574.00	0.00	100%
	01-310-001-1006	INTEREST & PENALTIES ON OTHER TAXES	0.00	0.00	0.00	0.00	0%	0.00	0.00	5,055.14	-5,055.14	0%
	01-310-002-1011	LIEN COST RECOVERY UTILITIES	0.00	0.00	0.00	0.00	0%	0.00	0.00	18.00	-18.00	0%
Pilot, Interest on Taxes			20,010,595.00	23,225.21	19,962,046.89	48,548.11	100%	18,541,324.00	6,951.24	18,506,542.60	34,781.40	100%
	01-330-000-1013	M/ MAIL-IN FEES	0.00	718.00	4,898.00	-4,898.00	0%	0.00	577.00	4,777.00	-4,777.00	0%
	01-330-000-1014	M/ PERMIT, LOCAL CLERK & TRANSFER FE	1,368,000.00	146,018.00	1,002,226.00	365,774.00	73%	1,258,000.00	111,038.00	974,404.40	286,595.60	77%
	01-330-000-1015	MOTOR VEHICLE STICKERS	26,000.00	2,787.01	20,215.01	5,784.99	78%	26,000.00	2,250.00	19,794.00	6,205.00	76%
	01-330-000-1016	BOAT REGISTRATIONS	3,000.00	422.20	1,640.12	1,359.88	58%	3,000.00	364.76	1,338.28	1,661.72	45%
	01-330-000-1017	MV/TITLE FEES	3,000.00	320.00	2,688.00	312.00	90%	3,000.00	256.00	2,690.00	310.00	90%
	01-330-000-1018	DOG LICENSES	0.00	367.50	2,191.50	-2,191.50	4%	0.00	127.50	2,081.50	-2,081.50	0%
	01-330-000-1019	VITAL STATISTICS	0.00	1,106.00	5,018.00	-5,018.00	0%	0.00	636.00	4,083.00	-4,083.00	0%
	01-330-000-1020	UCCS	0.00	570.00	900.00	-900.00	0%	0.00	0.00	270.00	-270.00	0%
	01-330-000-1022	POLICE- DOG ORDINANCE FINES	0.00	100.00	250.00	-250.00	0%	0.00	0.00	250.00	-250.00	0%
	01-330-000-1023	Finger Prints Receipts	0.00	0.00	10.00	-10.00	0%	0.00	0.00	30.00	-30.00	0%
	01-330-000-1024	BUILDING PERMITS	66,000.00	5,083.50	39,511.50	26,488.50	60%	66,000.00	4,647.00	62,111.00	3,889.00	94%
	01-330-000-1025	MISC LICENSES, PERMITS & Fees	50,300.00	76.67	61.24	49,628.76	1%	50,300.00	61.00	669.52	49,630.48	1%
	01-330-000-1026	FRANCHISE RENEWAL AGREEMENT	150,000.00	46,869.27	142,261.52	7,738.48	95%	150,000.00	50,008.74	161,033.50	-11,033.50	107%
Licenses, Permits and Fees			1,666,300.00	204,438.15	1,222,480.89	443,819.11	73%	1,556,300.00	169,966.00	1,230,533.20	325,766.80	79%
	01-320-000-1012	HIGHWAY BLOCK GRANT	182,472.00	0.00	300,355.74	-117,883.74	165%	173,078.00	0.00	106,511.02	66,566.98	62%
	01-320-000-1014	MISC. GRANTS	0.00	0.00	23,989.00	-23,989.00	0%	25,137.00	0.00	28,443.00	-3,306.00	133%
	01-320-000-1015	MEALS AND ROOM TAX DISTRIBUTION	472,792.00	0.00	472,791.69	0.31	100%	442,238.00	0.00	474,176.06	-31,938.06	107%
	01-320-000-1042	RAILROAD TAX	338.00	0.00	337.90	0.10	100%	0.00	0.00	1,393.49	-1,393.49	0%
30-320-000-1073	WASTEWATER- STATE REVENUE		42,375.00	0.00	18,386.00	23,989.00	43%	18,561.00	0.00	14,507.00	4,054.00	77%
From State			697,977.00	0.00	815,860.33	-117,883.33	127%	659,414.00	0.00	625,030.57	34,383.43	95%
	01-340-000-1025	POLICE SEX OFFENDER RECEIPTS	0.00	0.00	70.00	-70.00	0%	50.00	0.00	0.00	50.00	0%
	01-340-000-1027	PLANNING/ZONING RECEIPTS	2,000.00	1,914.00	4,156.00	-2,156.00	208%	2,000.00	360.00	4,644.00	-2,644.00	232%
	01-340-000-1028	POLICE REPORT FEES	1,200.00	77.00	936.00	264.00	78%	1,200.00	90.50	918.50	281.50	77%
	01-340-000-1030	DISPATCH RECEIPTS	0.00	28,000.00	28,000.00	-28,000.00	0%	0.00	0.00	0.00	0.00	0%
	01-340-000-1031	AMBULANCE RECEIPTS	165,000.00	28,291.09	124,698.91	40,301.09	76%	138,598.00	14,293.02	91,009.94	47,588.06	66%
	01-340-000-1034	FIRE DEPARTMENT RECEIPTS	5,000.00	0.00	660.00	4,340.00	13%	5,000.00	0.00	830.00	4,170.00	17%
	01-340-000-1036	COURT RECEIPTS	1,500.00	0.00	1,016.24	483.76	68%	1,500.00	227.51	870.21	629.79	58%
	01-340-000-1043	PARKING TICKETS	0.00	1,205.00	8,945.00	-8,945.00	0%	0.00	580.00	7,250.00	-7,250.00	0%
	01-340-000-1044	PARKING COURT FEES	0.00	0.00	50.00	-50.00	0%	0.00	0.00	0.00	0.00	0%
	01-340-000-1045	PARKING PERMITS	6,000.00	520.00	3,945.00	2,055.00	66%	5,000.00	0.00	1,800.00	3,200.00	36%
	01-340-001-1034	FIRE DEPT. X-DETAIL RECEIPTS	0.00	0.00	1,653.00	-1,653.00	0%	0.00	0.00	0.00	0.00	0%
Charges for Services			180,700.00	60,007.09	174,130.15	6,569.85	96%	153,348.00	15,551.03	107,322.65	46,025.35	70%
	01-340-000-1037	COPIER REVENUE	0.00	0.00	14.00	-14.00	0%	0.00	9.50	41.50	-41.50	0%
	01-340-000-1038	MISC. RECEIPTS	0.00	0.01	70.21	-70.21	0%	0.00	0.00	36,202.10	-36,202.10	0%
	01-340-002-1034	DPW DEPT. X-DETAIL RECEIPTS	0.00	-7,170.00	0.00	0.00	0%	0.00	0.00	0.00	0.00	0%
	01-340-001-1047	RECREATION FACILITY RENTAL	0.00	225.00	2,235.00	-2,235.00	0%	0.00	0.00	150.00	-150.00	0%
	01-340-002-0000	SUNRISE SUNSET REVENUE	0.00	0.00	187.00	-187.00	0%	0.00	172.00	172.00	-172.00	0%
	01-345-000-1044	HOUSING AUTHORITY	0.00	0.00	0.00	0.00	0%	0.00	-18.45	0.00	0.00	0%
	01-350-000-1046	SALE OF MUNICIPAL PROPERTY	0.00	0.00	0.00	0.00	0%	0.00	0.00	55,941.13	-55,941.13	0%
	01-350-000-1047	RENT OF MUNICIPAL PROPERTY	0.00	277.70	2,496.60	-2,496.60	0%	3,600.00	350.00	2,275.33	1,324.67	63%
	01-350-000-1048	INTEREST ON INVESTMENTS	14,000.00	1,298.92	12,990.67	1,009.33	93%	6,000.00	957.00	7,833.61	-1,833.61	131%
	01-350-001-1105	TC/TC OVER AND UNDER	0.00	0.00	-36.00	36.00	0%	0.00	0.00	36.15	-36.15	0%
	01-360-000-0000	GF - MISCELLANEOUS REVENUE	0.00	0.00	0.00	0.00	0%	60,001.00	0.00	2,720.72	57,280.28	5%
Misc. Rev. Includes Int. Rev.			14,000.00	-5,368.37	17,957.48	-3,957.48	128%	69,601.00	1,470.05	105,372.54	-35,771.54	153%
	01-360-000-1054	FUND BALANCE USED	600,000.00	0.00	600,000.00	0.00	100%	500,000.00	0.00	500,000.00	0.00	100%
Fund Balance			600,000.00	0.00	600,000.00	0.00	100%	500,000.00	0.00	500,000.00	0.00	100%
	05-340-000-1047	RECREATION- RECREATION RENTAL REVEN	0.00	0.00	-420.00	420.00	0%	0.00	0.00	0.00	0.00	0%
	05-340-000-1058	RECREATION - REVENUE	279,115.00	16,927.20	128,064.65	151,050.35	46%	243,433.00	11,375.00	96,714.01	146,718.99	40%
	05-340-000-1059	RECREATION - LIGHT USAGE	0.00	0.00	1,413.30	-1,413.30	0%	0.00	0.00	2,460.15	-2,460.15	0%
	05-340-002-0000	REC-SUNRISE SUNSET REVENUE	0.00	669.00	4,001.00	-4,001.00	0%	0.00	400.00	2,487.00	-2,487.00	0%
	05-350-000-1048	RECREATION- INTEREST	0.00	40.76	380.32	-380.32	0%	0.00	218.6	186.46	-186.46	0%
	05-350-000-1049	REC -ADVERTISING RECEIPTS	0.00	0.00	1,234.94	-1,234.94	0%	0.00	0.00	0.00	0.00	0%
Recreation			279,115.00	17,636.96	134,674.21	144,440.79	48%	243,433.00	11,796.86	101,847.62	141,585.38	42%
	07-340-000-1055	SW - TRANSFER FROM GENERAL FUND	0.00	0.00	678,900.00	-678,900.00	0%	0.00	0.00	217,356.00	-217,356.00	0%
	07-340-000-1067	SW - LANDFILL RECEIPTS	250,000.00	2,630.00	42,173.34	207,826.66	17%	230,000.00	2,540.00	43,830.70	186,169.30	19%
	07-340-000-1068	SW - GARBAGE BAGS	0.00	9,019.94	115,263.44	-115,263.44	0%	0.00	12,489.25	113,987.40	-113,987.40	0%
	07-340-000-1069	SW - RECYCLING BINS	0.00	40.00	1,070.00	-1,070.00	0%	0.00	70.00	950.00	-950.00	0%
	07-340-000-1070	SW - UNITED TECHNOLOGIES	0.00	0.00	9,385.42	-9,385.42	0%	0.00	0.00	12,752.45	-12,752.45	0%
	07-350-000-1048	SW - INTEREST	0.00	112.60	772.78	-772.78	0%	0.00	37.85	271.50	-271.50	0%
	07-360-001-0000	SW - MISC. REVENUES	0.00	160.70	216.40	-216.40	0%	0.00	2,631.79	2,679.98	-2,679.98	0%
Solid Waste			250,000.00	11,962.70	847,781.38	-597,781.38	339%	230,000.00	17,768.89	391,827.96	-161,827.96	170%
	20-310-000-1001	WATER - TAX REVENUE	1,137,780.00	252.35	642,797.80	494,982.20	56%	932,813.00	197,348.75	633,032.50	299,780.50	68%
	20-310-000-1006	WATER- INTEREST AND PENALTIES ON DEI	0.00	49.01	837.89	-837.89	0%	0.00	293.18	1,649.00	-1,649.00	0%
	20-330-000-1071	WATER- ENTRANCE FEES	0.00	0.00	2,000.00	-2,000.00	0%	0.00	1,000.00	15,000.00	-15,000.00	0%
	20-340-000-1072	WATER - JOBWORK	0.00	0.00	0.00	0.00	0%	0.00	0.00	143.50	-143.50	0%
	20-350-000-1047	WATER - RENT OF MUNICIPAL PROPERTY	0.00	6,823.69	53,068.06	-53,068.06	0%	0.00	6,727.15	53,099.07	-53,099.07	0%
	20-350-000-1048	WATER - INTEREST	0.00	41.78	290.40	-290.40	0%	0.00	65.55	587.57	-587.57	0%

Revenue Report^{ab}
For the Period Ended February 28, 2018

Function	Account Number	ACCOUNT DESCRIPTION	Fiscal Year 2018				Percent Collected	Fiscal Year 2017				Percent Collected
			Budget	Month to Date Transactions	Year to Date Transactions	Balance Year		Budget	Month to Date Transactions	Year to Date Transactions	Balance Year	
	20-350-021-1073	WATER- DEDUCT METER	0.00	0.00	0.00	0.00	0%	0.00	0.00	1,572.00	-1,572.00	0%
Water			1,137,780.00	7,166.83	698,994.15	438,785.85	61%	932,813.00	205,434.63	705,083.64	227,729.36	76%
	30-310-000-1001	WASTEWATER - TAX REVENUE	2,140,051.00	241.50	1,284,566.56	855,484.44	60%	1,159,007.00	399,636.66	1,186,854.44	-27,847.44	102%
	30-310-000-1006	WASTEWATER - INTEREST ON DELINQUENT	0.00	100.80	1,776.52	-1,776.52	0%	0.00	573.19	3,290.27	-3,290.27	0%
	30-330-000-1071	WASTEWATER - ENTRANCE FEES	0.00	0.00	5,000.00	-5,000.00	0%	0.00	1,000.00	16,000.00	-16,000.00	0%
	30-340-000-1038	WASTEWATER - OTHER MISC. REVENUE	0.00	0.00	66,220.00	-66,220.00	0%	0.00	624.70	624.70	-624.70	0%
	30-350-000-1048	WASTEWATER - INTEREST	0.00	448.20	5,053.86	-5,053.86	0%	0.00	257.34	1,938.60	-1,938.60	0%
Sewer			2,140,051.00	790.50	1,362,616.94	777,434.06	64%	1,159,007.00	402,091.89	1,208,708.01	-49,701.01	104%
Total Revenues			26,976,518.00	319,859.07	25,836,542.42	1,139,975.58	96%	24,045,240.00	831,030.59	23,482,268.79	562,971.21	98%



Town Council Orientation

ROLE OF THE TOWN COUNCIL

- Town Council serves as the Legislative and Governing Body of the Town
 - In corporate world:



Residents/Voters =
Shareholders



Town Council =
Board of Directors



Town Administrator =
Chief Executive Officer

ROLE OF THE TOWN COUNCIL



- Town Councils are not Select Boards
 - Town Councils have some authority of the Select Boards
 - The Town Administrator has some of that authority
- Town Charter Says:
 - Council has all power of City Councils except to adopt the budget
- State Law Says:
 - Council has all powers of selectmen, city council and aldermen
 - All actions of a city apply to town council
- Newmarket is closer in government to Dover and Portsmouth than Exeter and Hampton

ROLE OF THE TOWN COUNCIL WITH TOWN ADMINISTRATOR



- Town Council cannot get involved in the day to day operations
- Town Council appoints a chief administrative officer (RSA 49-D:2)
- Town Administrator has all authority of a Town Manager according to Town Charter and State Law
 - Appoints, with Town Council approval all Department Heads
 - Disciplines employees, including termination
 - Proposes Budget and CIP to Town Council
 - Full List in Town Charter
- Town Council makes policy. Town Administrator and staff carry the policies out

ROLE OF THE TOWN COUNCIL

- Town Council must act as a body
- No one Town Councilor can:
 - Influence the Acts of the Town Administrator or other Employee
 - Direct the Appointment or Termination of an Employee
 - Interfere with the duties of an employee
- Councilors must deal with employees through Town Administrator
- Violation is a forfeiture of office (RSA 49-D:4)

ROLE OF THE TOWN COUNCIL

- Town Council must adopt all laws of the Town
- Town Council has budgetary control
 - Municipal Budget Committee and Town Meeting only approve bottom-line of the budget
- Town Administrator has financial responsibility
 - Town Administrator must approve any manifests for payment
 - Establishes purchasing code
 - Appoints the Town Treasurer

ROLE OF THE TOWN COUNCIL

- Realize you are on a team
- You represent the entire community at all times
- You are doing this for public service, not to benefit personally, politically or professionally
- You cannot turn off being a councilor

TOWN COUNCIL RELATIONS WITH EACH OTHER

- Set long term and short term goals and objectives as a team
- Be good listeners, Be good team players
- Disagree without being disagreeable
- Treat each other and staff with respect despite differences of opinion
- Make decisions after all facts have been presented and discussed - refrain from snap judgements
- Realize that actions of the Council as a whole are binding – no councilor can act alone

ROLE OF THE TOWN COUNCIL CHAIR

- First among Equals
 - Has no more authority than other councilors
- Runs meetings and assists the council in reaching decisions and moving discussions forward
- Acts as a liaison between the Town Council and the Town Administrator
 - Helps resolve and conflicts between the two
- Ceremonial head of the Town government

TOWN COUNCIL RELATIONSHIP WITH STAFF

- Do not micromanage
- Let Town Administrator and Department Heads run the day to day operations
- Recognize and support the administrative chain of command
- Do not undermine the staff
 - If there is an issue, tell the Town Administrator
- Recognize Staff has a difficult time trying to satisfy a diverse Council
- Town Administrator works for the Council, not a Councilor
 - Town Administrator must adjust to the Council as a whole
- Try to get answers from the Town Administrator prior to a meeting

TOWN COUNCIL RELATIONSHIP WITH STAFF

- Role of Town Council is not to deal with staff except for basic inquiry or praise
- All local government matters should be funneled through the Town Administrator
 - Call the Town Administrator for responses to questions, complaints or concerns
 - Department Heads may answer questions, but will let the Town Administrator know
- Deal with the Town Attorney only through the Town Administrator or the Council as a whole
- Avoid giving the Town Administrator and Staff mixed signals from different councilors

GENERAL INFORMATION

- Town Council Meets 1st and 3rd Wednesday of the Month
- Agenda closes on the Wednesday prior to a meeting at 12 noon
 - No topic may be placed on agenda after unless an emergency
 - Town Council should not accept items at a meeting that staff does not have time to review
 - Packets are available the Friday before

GENERAL INFORMATION

- Town Council votes on two main items
 - Ordinances – Laws adopted by the Town Council
 - Resolutions – Policies or positions adopted by Town Council



Department Heads Monthly Reports to the Town Council and Town Administrator

Report of the Police Department to the Newmarket Town Council

Activity

Newmarket Police 3 year comparable statistics for month of February.

	<u>2018</u>	<u>2017</u>	<u>2016</u>
Total calls for service	1721	1186	1344
Motor vehicle stops	502	244	223
Arrests	12	15	18
Offense reports	20	31	23
M/V accidents	6	13	8
Parking tickets	68	70	23
Drug Overdoses	0	1	0
Alarms	6	21	26
Unattended death/Suicide	2	4	0

During the month of February, the Newmarket Police Dispatch Center documented 1721 calls for service. We have investigated 25 criminal complaints that require active investigations in all 20 of the complaints. These criminal complaints include offenses such as domestic violence, 2nd degree assault, simple assault, harassment, theft of utility services, fraudulent use of credit cards, criminal mischief, theft, possession of controlled drugs,

endangering the welfare of a child and several bench warrant cases. We investigated 2 unattended deaths (both being ruled suicide). Numerous motor vehicle complaints were also investigated. In February, patrol officers conducted 502 motor vehicle stops which led to arrests or citations for charges such as driving after suspension, suspended registrations, as well as many other citations. Officers conducted a number of welfare checks, house checks and nightly business checks. The patrol division issued 68 parking tickets.

Personnel

Detective Kukesh was asked to once again provide officer survival training to the recruit class at the NH Police Academy in Concord. He continues to be one of the Police Academy's most sought out instructors and he continues to receive outstanding class critiques.

Officers continue to work grant funded patrol shifts (4 hour blocks) targeting motor vehicle infractions such as speeding, hands free laws, seat belt violations and crosswalk violations.

Parking Violations

As reported earlier in this report, patrol officers issued 68 parking tickets during the month of February. The winter parking ban is still in full force for the remainder of the winter. Our police officers work closely with the member of the public works department to ensure the streets are cleared during snow plowing and snow removal operations.

Motor Vehicle Accidents

During the month of February we responded to 6 motor vehicle accidents.

Fleet

All vehicles in the fleet are currently working and are being closely monitored by supervisors. In February, we were made aware of a recall on the Ford Police Interceptor SUV. In the affected vehicles, some of the steering gear heat shield fasteners may have a surface finish with insufficient corrosion protection. Without the proper finish, the heat shield may corrode and detach from the steering gear – exposing the steering gear system to higher than

expected temperatures. If the steering gear electrical connectors melt, the driver may experience sudden loss of assist without warning while driving, accompanied by the fault message "Service Power Steering Now" in the instrument cluster. Sudden loss of power steering assist while driving would require higher steering efforts, especially at lower speeds, which may result in an increased risk of a crash. Loss of power steering assist is unlikely to be associated with accidents at higher speeds, as the amount of assist supplied reduces as vehicle speed increases. Ford has indicated that they are not aware of any accidents or injuries associated with this issue.

Police Station Maintenance:

The police department facility is in good working condition. We are awaiting the purchase and installation of a new heater for our sally port. As was previously reported last month, this original heater has finally failed.

Facilities Director Marles is planning to remove an outdated and unused backup generator that has been sitting in our sally port since our building was built in 1995. We currently rely on our outside Caterpillar generator which sits on the outside of the facility in the event of a power outage.

Drug related issues

During the month of February we did not respond to any opiate related overdoses.

I am pleased to report the following statistics for Heroin/Opiate related overdoses and deaths since the inception of the Newmarket Alliance for Substance Abuse Prevention (N-ASAP);

2015- 45 Overdoses with 4 deaths resulting

2016- 22 Overdoses with 2 deaths resulting

2017- 15 Overdoses with 2 death resulting

2018- 1 Overdose with 1 death resulting (thus far)

I have consistently added the foregoing paragraph in my last few reports as I feel that it is important for anyone reading this report to understand the philosophy this agency has relative to this epidemic.

The police department's culture with regards to the opiate epidemic has evolved from "arrest and incarcerate" to "intervene and assist with recovery" when it comes to individuals who are addicted to opiates. It is my personal and professional belief that we cannot arrest our

way out of this epidemic. Even if we tried that route, the cost to the taxpayers would be astronomical. Furthermore, the county jails and the state prison could not house all arrested "users". With that being said, we will NOT tolerate anyone who sells, distributes or dispenses any of this poison that is in our community. If anyone is caught selling, distributing or dispensing narcotics we will prosecute them to the fullest extent of the law.

Miscellaneous

The annual Great Bay Half Marathon will held on April 8, 2018. Residents and businesses should expect to see large crowds in the downtown area. Motorists should expect to see moderate delays and should expect to be detoured away from race participants.

In February, I attended a Newmarket Business Association meeting/mixer at the Newmarket Community Center. I was asked to provide a "State of the Union" in relation to the efforts the Police Department has put in to combat the current opioid epidemic. I was proud to share with the NBA, the positive results our efforts have shown. I was also there to support Newmarket ASAP member Chris Placey and his efforts to inform business owners about the Governor's program to incentivize businesses to be drug free work environments.

In February I was asked by the Rockingham County's Office to attend a Rockingham County Drug Court session in Brentwood to see if I would be interested the filling a void of a law enforcement representative to the Drug Court. I attended the Drug Court session and was fully impressed by the work that is put in by members of the court, prosecutors, defense attorneys, mental health workers, probation officers as well as many other volunteers to help make the Drug Court successful. Unfortunately, the commitment that is required to participate was greater than I anticipated and is not something that I could participate in with current staffing.

Fiscal Year 2017/2018 Budget:

We are eight months into fiscal year 2017-2018. We are within our projected budget having expended approximately 61.2 % of the operating budget.

Respectfully Submitted,

Kyle True
Police Chief

POLICE

Budget	<u>FISCAL YEAR 2018</u>		Balance Year	% Spent
	MTD Transactions	YTD Transactions		
1,338,426.00	90,218.07	795,038.13	543,387.87	59%

Budget	<u>FISCAL YEAR 2017</u>		Balance Year	% Spent
	MTD Transactions	YTD Transactions		
1,322,707.00	59,445.73	780,225.73	542,481.27	59%

Fire and Rescue Department

For the month of February, the department responded to 80 calls for service; 55 of which were medical calls, transporting 50 patients to area hospitals. The ambulance responded to Newfields for three medical calls, transporting two patients; and Stratham once, transporting one patient. The ladder responded to building fires in Greenland and Exeter. The ladder also responded to Newfields for a chimney fire. The command truck responded to Portsmouth for a SERT call out.

The department will be conducting training activities at 175 and 177 Exeter Road over the next several months. These two homes are slated to be torn down for a project at the Industrial Park and the owner has agreed to let the department utilize them for training. When we are done with training, we will conduct live training burns on both properties in June.

The State EMS Bureau is coming to the April town council meeting to present the town with HeartSafe Award. Because the winter storms have been preventing this, we have decided to postpone until April. Newmarket is the 36th municipality to receive the HeartSafe designation.

A proposal is still in the works to finish the second floor of the fire station and create a live-in program for the department. I should have a proposal completed in draft form by May.

Newfields Fire has made the transfer back to Newmarket Dispatch and has changed over to Newmarket Fire's radio frequency.

I have attached charts with activity reports for the month of February.

FIRE	<u>FISCAL YEAR 2018</u>				
	Budget	MTD Transactions	YTD Transactions	Balance Year	% Spent
	376,958.00	25,769.52	268,733.87	108,224.13	71%
	<u>FISCAL YEAR 2017</u>				
	Budget	MTD Transactions	YTD Transactions	Balance Year	% Spent
	358,762.00	29,560.73	227,406.56	131,355.44	63%

Newmarket Fire & Rescue

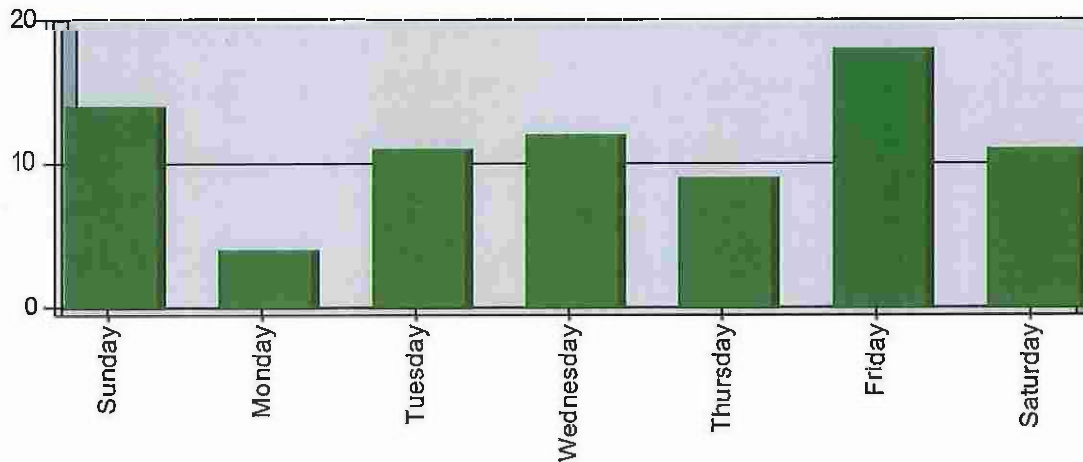
Newmarket, NH

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Incidents by Day of the Week for Date Range

Start Incident Type: 100 | End Incident Type: 911 | Start Date: 02/01/2018 | End Date: 02/28/2018



DAY OF THE WEEK	#INCIDENTS
Sunday	14
Monday	4
Tuesday	11
Wednesday	12
Thursday	9
Friday	18
Saturday	11
TOTAL	79



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Newmarket Fire & Rescue

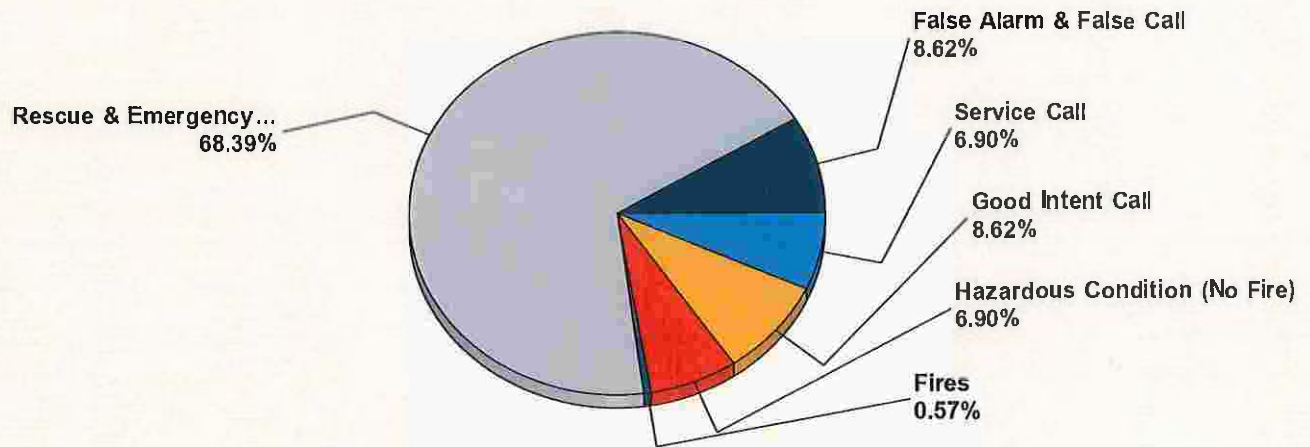
Newmarket, NH

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Breakdown by Major Incident Types for Date Range

Zone(s): All Zones | Start Date: 01/01/2017 | End Date: 02/28/2017



MAJOR INCIDENT TYPE	#INCIDENTS	% of TOTAL
Fires	1	0.57%
Rescue & Emergency Medical Service	119	68.39%
Hazardous Condition (No Fire)	12	6.90%
Service Call	12	6.90%
Good Intent Call	15	8.62%
False Alarm & False Call	15	8.62%
TOTAL	174	100.00%

Only REVIEWED incidents included. Summary results for a major incident type are not displayed if the count is zero.

Detailed Breakdown by Incident Type

INCIDENT TYPE	# INCIDENTS	% of TOTAL
111 - Building fire	1	0.57%
300 - Rescue, EMS incident, other	3	1.72%
321 - EMS call, excluding vehicle accident with injury	105	60.34%
322 - Motor vehicle accident with injuries	3	1.72%
323 - Motor vehicle/pedestrian accident (MV Ped)	1	0.57%
324 - Motor vehicle accident with no injuries.	6	3.45%
381 - Rescue or EMS standby	1	0.57%
400 - Hazardous condition, other	1	0.57%
412 - Gas leak (natural gas or LPG)	2	1.15%
424 - Carbon monoxide incident	3	1.72%
440 - Electrical wiring/equipment problem, other	2	1.15%
444 - Power line down	4	2.30%
500 - Service Call, other	2	1.15%
522 - Water or steam leak	1	0.57%
551 - Assist police or other governmental agency	1	0.57%
554 - Assist invalid	5	2.87%
571 - Cover assignment, standby, moveup	3	1.72%
600 - Good intent call, other	3	1.72%
611 - Dispatched & cancelled en route	12	6.90%
700 - False alarm or false call, other	2	1.15%
731 - Sprinkler activation due to malfunction	1	0.57%
735 - Alarm system sounded due to malfunction	1	0.57%
736 - CO detector activation due to malfunction	1	0.57%
743 - Smoke detector activation, no fire - unintentional	2	1.15%
745 - Alarm system activation, no fire - unintentional	5	2.87%
746 - Carbon monoxide detector activation, no CO	3	1.72%
TOTAL INCIDENTS:	174	100.00%

Only REVIEWED incidents included. Summary results for a major incident type are not displayed if the count is zero.

Newmarket Fire & Rescue

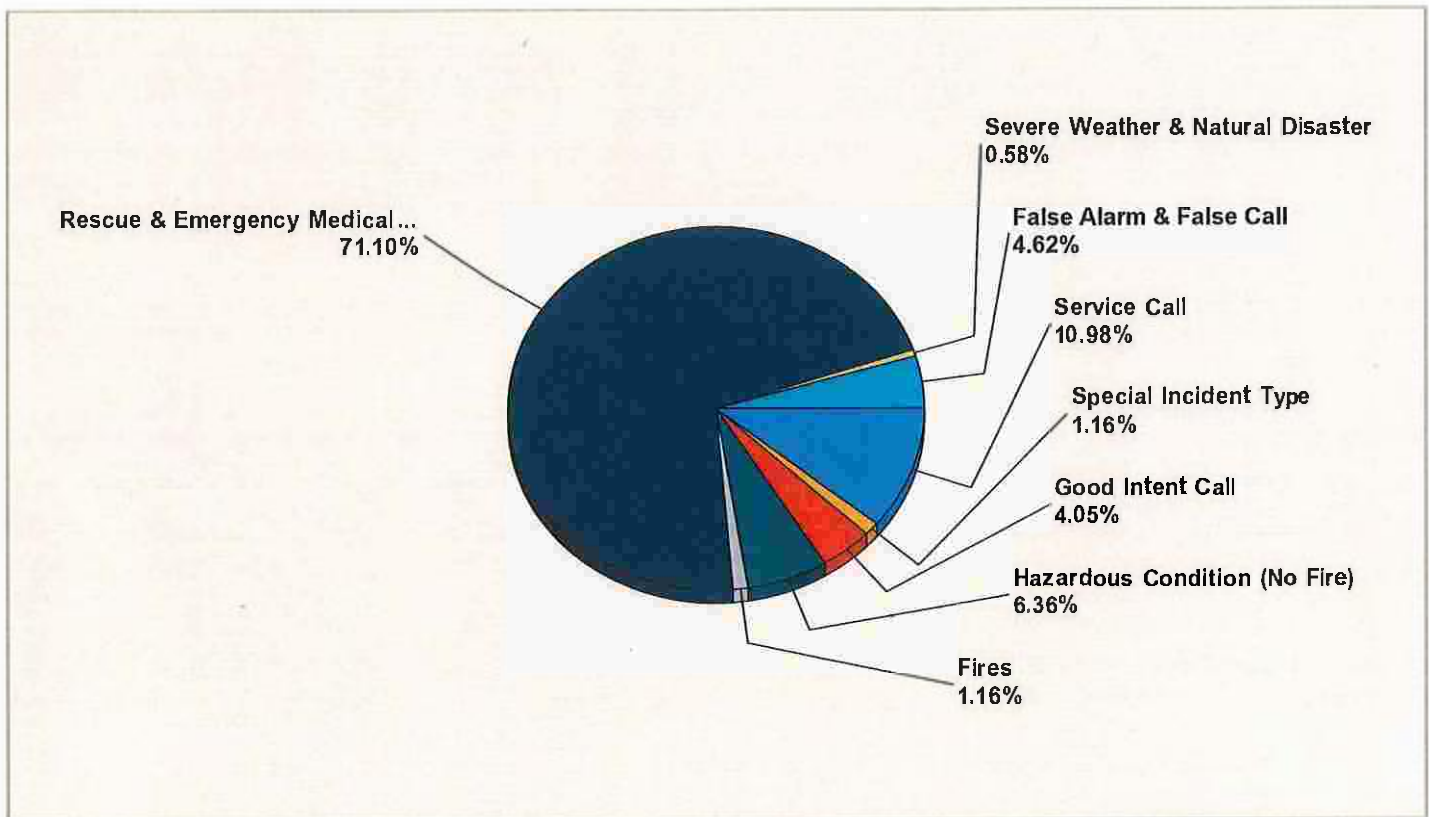
Newmarket, NH

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Breakdown by Major Incident Types for Date Range

Zone(s): All Zones | Start Date: 01/01/2018 | End Date: 02/28/2018



MAJOR INCIDENT TYPE	#INCIDENTS	% of TOTAL
Fires	2	1.16%
Rescue & Emergency Medical Service	123	71.10%
Hazardous Condition (No Fire)	11	6.36%
Service Call	19	10.98%
Good Intent Call	7	4.05%
False Alarm & False Call	8	4.62%
Severe Weather & Natural Disaster	1	0.58%
Special Incident Type	2	1.16%
TOTAL	173	100.00%

Only REVIEWED incidents included. Summary results for a major incident type are not displayed if the count is zero.

Detailed Breakdown by Incident Type

INCIDENT TYPE	#INCIDENTS	% of TOTAL
111 - Building fire	1	0.58%
114 - Chimney or flue fire, confined to chimney or flue	1	0.58%
320 - Emergency medical service, other	6	3.47%
321 - EMS call, excluding vehicle accident with injury	112	64.74%
322 - Motor vehicle accident with injuries	1	0.58%
324 - Motor vehicle accident with no injuries	4	2.31%
410 - Combustible/flammable gas/liquid condition, other	1	0.58%
412 - Gas leak (natural gas or LPG)	3	1.73%
424 - Carbon monoxide incident	5	2.89%
440 - Electrical wiring/equipment problem, other	1	0.58%
445 - Arcing, shorted electrical equipment	1	0.58%
500 - Service Call, other	2	1.16%
511 - Lock-out	2	1.16%
520 - Water problem, other	5	2.89%
522 - Water or steam leak	1	0.58%
571 - Cover assignment, standby, moveup	9	5.20%
600 - Good intent call, other	1	0.58%
611 - Dispatched & cancelled en route	4	2.31%
622 - No incident found on arrival at dispatch address	1	0.58%
652 - Steam, vapor, fog or dust thought to be smoke	1	0.58%
700 - False alarm or false call, other	2	1.16%
715 - Local alarm system, malicious false alarm	1	0.58%
733 - Smoke detector activation due to malfunction	1	0.58%
735 - Alarm system sounded due to malfunction	1	0.58%
740 - Unintentional transmission of alarm, other	1	0.58%
743 - Smoke detector activation, no fire - unintentional	1	0.58%
744 - Detector activation, no fire - unintentional	1	0.58%
812 - Flood assessment	1	0.58%
900 - Special type of incident, other	2	1.16%
TOTAL INCIDENTS:	173	100.00%

Only REVIEWED incidents included. Summary results for a major incident type are not displayed if the count is zero.

Newmarket Fire & Rescue

Newmarket, NH

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Incident Detail for Aid Given and Received for Incident Type Range for Date Range

Incident Type Range: 100 - 911 | StartDate: 02/01/2018 | EndDate: 02/28/2018

INCIDENT DATE	INCIDENT#	ADDRESS	INCIDENT TYPE	SHIFT
AID TYPE: Mutual aid given				
02/06/2018	2018-106	10 Main ST	440 - Electrical wiring/equipment problem, other	1 - Station 1
02/14/2018	2018-127	42 Donna DR	571 - Cover assignment, standby, moveup	1 - Station 1

Percentage of Total Incidents:

2.53%

AID TYPE: Mutual aid received				
02/16/2018	2018-131	38 Dogwood Ln	321 - EMS call, excluding vehicle accident with injury	1 - Station 1
02/21/2018	2018-147	Chapel St. & Main St.	324 - Motor vehicle accident with no injuries.	1 - Station 1
02/23/2018	2018-152	26 Huckins DR	321 - EMS call, excluding vehicle accident with injury	1 - Station 1
02/25/2018	2018-165	1333 Bennett WAY	743 - Smoke detector activation, no fire - unintentional	1 - Station 1

Percentage of Total Incidents:

5.06%

Displays all incidents with aid given or received, and excludes incidents with neither. Percentages calculated from total number of incidents for parameters provided. Only REVIEWED incidents included.



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Newmarket Fire & Rescue

Newmarket, NH

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Incident Type Count per Station for Date Range

Start Date: 02/01/2018 | End Date: 02/28/2018

INCIDENT TYPE	# INCIDENTS
Station: 1 - STATION 1	
320 - Emergency medical service, other	1
321 - EMS call, excluding vehicle accident with injury	54
324 - Motor vehicle accident with no injuries.	3
412 - Gas leak (natural gas or LPG)	1
424 - Carbon monoxide incident	1
440 - Electrical wiring/equipment problem, other	1
445 - Arcing, shorted electrical equipment	1
511 - Lock-out	1
520 - Water problem, other	3
571 - Cover assignment, standby, moveup	4
611 - Dispatched & cancelled en route	3
700 - False alarm or false call, other	2
740 - Unintentional transmission of alarm, other	1
743 - Smoke detector activation, no fire - unintentional	1
744 - Detector activation, no fire - unintentional	1
900 - Special type of incident, other	1

Incidents for 1 - Station 1:

79

Only REVIEWED incidents included.



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Page# 1

Newmarket Fire & Rescue

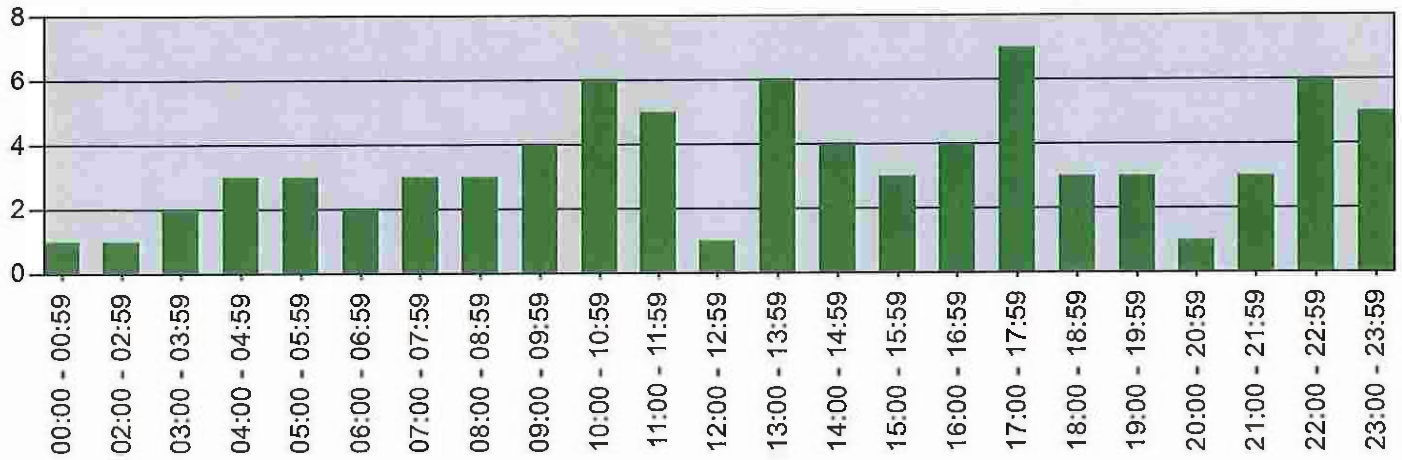
Newmarket, NH

This report was generated on 3/6/2018 8:09:24 AM



Incidents per Hour for Incident Type Range for Date Range

Start Incident Type: 100 | End Incident Type: 911 | Start Date: 02/01/2018 | End Date: 02/28/2018



Hour	# of CALLS
00:00 - 00:59	1
01:00 - 01:59	1
02:00 - 02:59	1
03:00 - 03:59	2
04:00 - 04:59	3
05:00 - 05:59	3
06:00 - 06:59	2
07:00 - 07:59	3
08:00 - 08:59	3
09:00 - 09:59	4
10:00 - 10:59	6
11:00 - 11:59	5
12:00 - 12:59	1
13:00 - 13:59	6
14:00 - 14:59	4
15:00 - 15:59	3
16:00 - 16:59	4
17:00 - 17:59	7
18:00 - 18:59	3
19:00 - 19:59	3
20:00 - 20:59	1
21:00 - 21:59	3
22:00 - 22:59	6
23:00 - 23:59	5
TOTAL:	79

Only REVIEWED incidents included.

Public Works Department

In February, we had two prolonged ice storms, which are more challenging than snow storms. The roads glaze over, and we must continuously apply product to keep them open and safe. We have gone over budget for road salt but should not have to purchase any more. Overtime is still under budget, and there are other line items under snow removal that will cover the overages in salt at this time. The newest truck in the fleet has a severe motor issue that will be covered under warranty. The truck will be out of service temporarily while Liberty makes repairs.

There was one water break this month on New Road, which ended up being a service to a single-family home and had to be replaced all the way back to the main. New Road had to be closed for 6 hours because the water main was on the opposite side of the road and traffic could not be safely maintained.

Eversource continues tree work throughout town. This work will be on going over the next couple months pending no weather events to interrupt crews.

I have attached charts with activity reports for the month of February.

DPWADMIN

Budget	<u>FISCAL YEAR 2018</u>		Balance Year	% Spent
	MTD Transactions	YTD Transactions		
434,282.00	45,747.24	307,533.14	126,748.86	71%

Budget	<u>FISCAL YEAR 2017</u>		Balance Year	% Spent
	MTD Transactions	YTD Transactions		
427,516.00	45,386.91	308,008.56	119,507.44	72%

ROADS& SIDEWALKS

Budget	<u>FISCAL YEAR 2018</u>		Balance Year	% Spent
	MTD Transactions	YTD Transactions		
520,270.00	40,192.46	448,492.31	71,777.69	86%

Budget	<u>FISCAL YEAR 2017</u>		Balance Year	% Spent
	MTD Transactions	YTD Transactions		

330,970.00	60,622.07	206,437.45	124,532.55	62%
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**STREET
LIGHTS**

FISCAL YEAR 2018

Budget	MTD Transactions	YTD Transactions	Balance Year	% Spent
49,000.00	3,838.05	26,644.67	22,355.33	54%

FISCAL YEAR 2017

Budget	MTD Transactions	YTD Transactions	Balance Year	% Spent
49,000.00	4,164.70	29,768.67	19,231.33	61%

**CEMETERIE
S**

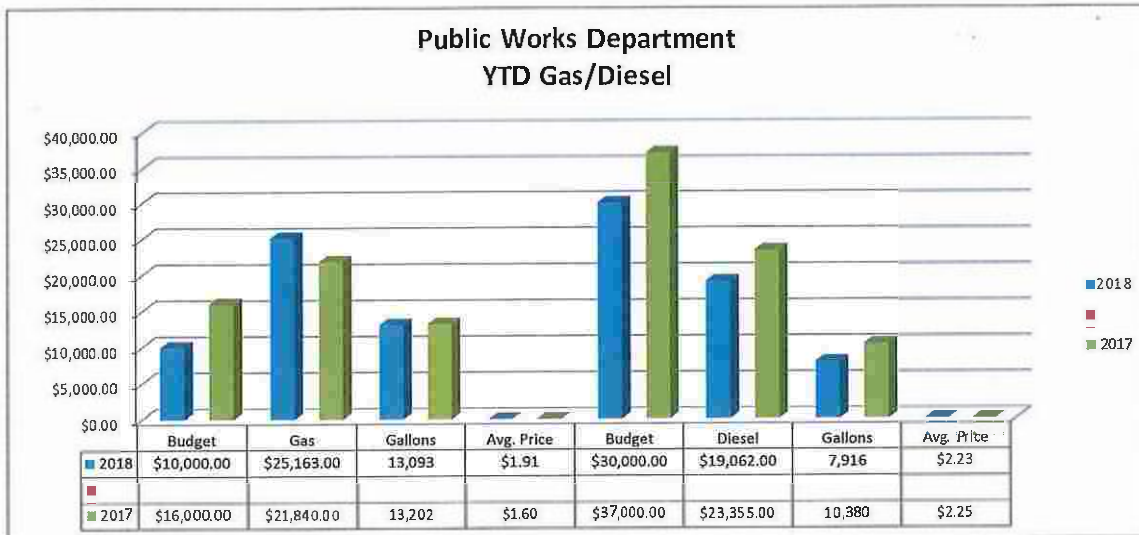
FISCAL YEAR 2018

Budget	MTD Transactions	YTD Transactions	Balance Year	% Spent
38,132.00	1,415.24	13,617.96	24,514.04	36%

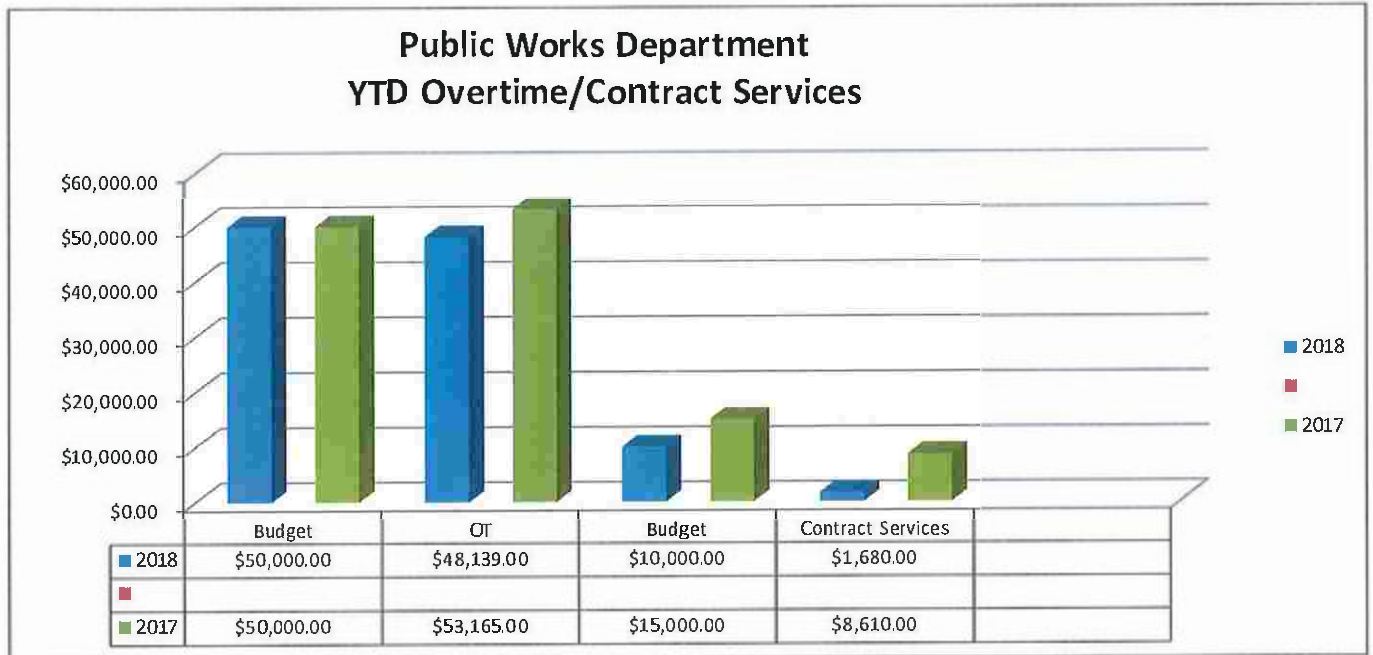
FISCAL YEAR 2017

Budget	MTD Transactions	YTD Transactions	Balance Year	% Spent
37,253.00	1,518.05	19,256.44	17,996.56	52%

	Budget	Gas	Gallons	Avg. Price	Budget	Diesel	Gallons	Avg. Price
2018	\$10,000.00	\$25,163.00	13,093	\$1.91	\$30,000.00	\$19,062.00	7,916	\$2.23
2017	\$16,000.00	\$21,840.00	13,202	\$1.60	\$37,000.00	\$23,355.00	10,380	\$2.25

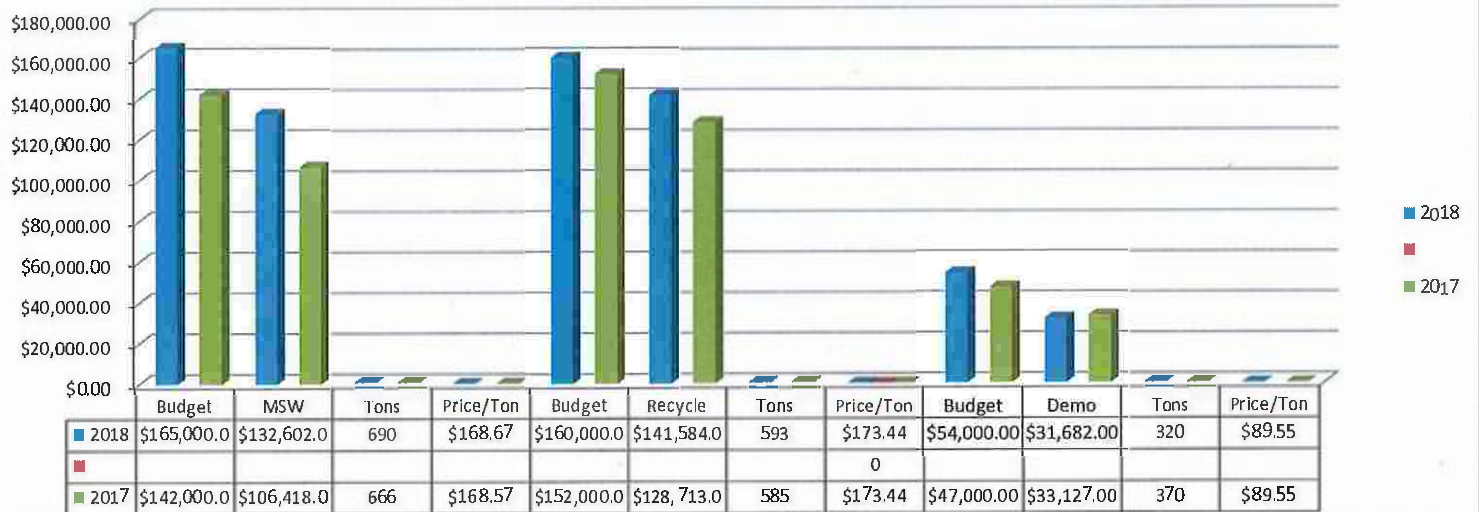


	Budget	OT	Budget	Contract Services
2018	\$50,000.00	\$48,139.00	\$10,000.00	\$1,680.00
2017	\$50,000.00	\$53,165.00	\$15,000.00	\$8,610.00



	Budget	MSW	Tons	Price/Ton	Budget	Recycle	Tons	Price/Ton	Budget	Demo	Tons	Price/Ton
2018	\$165,000.00	\$132,602.00	690	\$168.67	\$160,000.00	\$141,584.00	593	\$173.44	\$54,000.00	\$31,682.00	320	\$89.55
2017	\$142,000.00	\$106,418.00	666	\$168.57	\$152,000.00	\$128,713.00	585	\$173.44	\$47,000.00	\$33,127.00	370	\$89.55

Public Works Department YTD Solid Waste

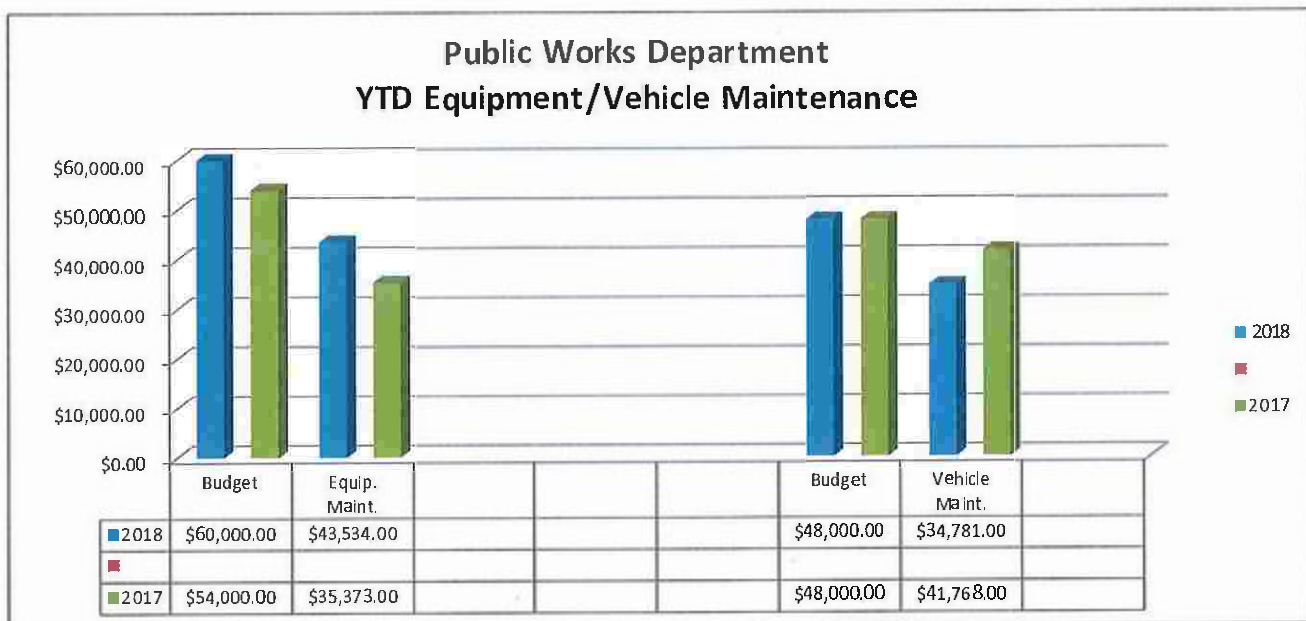


	Budget	Equip. Maint.
2018	\$60,000.00	\$43,534.00

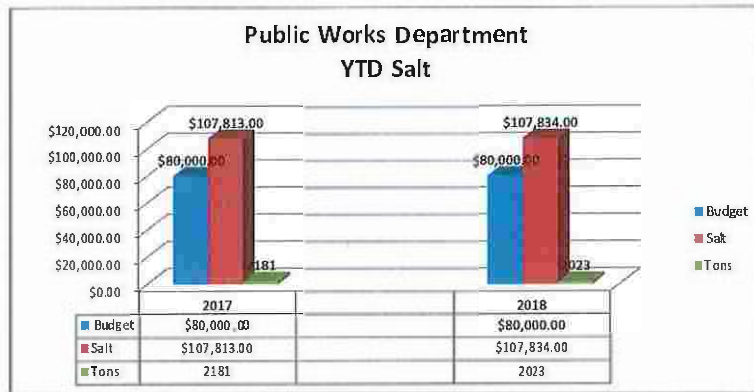
2017	\$54,000.00	\$35,373.00
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	Budget	Vehicle Maint.
	\$48,000.00	\$34,781.00

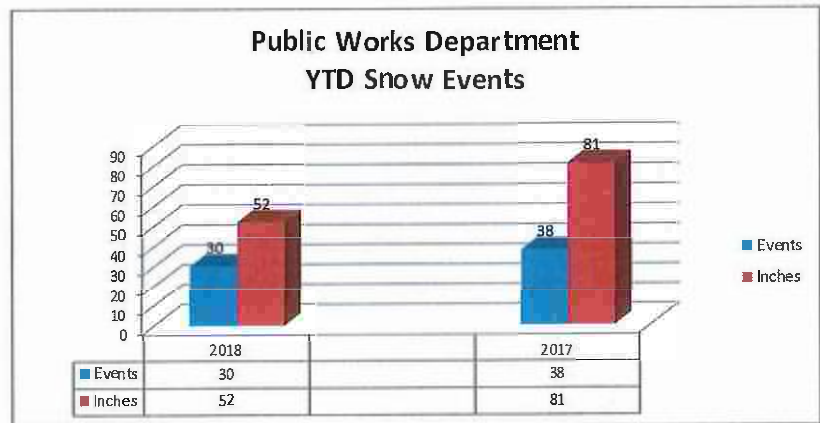
	\$48,000.00	\$41,768.00
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	Budget	Salt	Tons
2017	\$80,000.00	\$107,813.00	2181
2018	\$80,000.00	\$107,834.00	2023



	Events	Inches
2018	30	52
2017	38	81



Facilities Report

We have had a very busy month, the new Town Hall access system is up and running as well as the Community Center access and camera systems. We did however have several equipment failures that we have been reviewing with our service contractor to replace the failed units. We have submitted Staff Reports and Resolution to deal with these issues at the Police Station and Public Works Facility. We have also working on a plan to deal with the failed heating system at the Community Center and will be providing the Town Council with several resolutions to deal with the issues at this facility.

The dais renovations have been completed along with changes to the wiring system to create improvements to the operation of the systems. We ran into a large step truss in the wall where we were to install the new doorway which prevented the installation of said doorway. This was not found until we had opened the wall exposing the truss; the contractor has credited us the cost of installing the doorway. We also replaced all of the dias seating with new high back seating thus eliminate several chairs that were broken and failing. Facility surveys continued this month and we are working toward a draft report sometime in April, with a final report in May.

Certification programs for stormwater inspection/inspector, stormwater plan reviewer certification, and green infrastructure program training have been completed with final certification testing remain as an open item. Once the final certification is completed we will have a Certified Stormwater Inspector/Plan Approver on staff. This all connects to our MS4 permitting process and the steps we will need to take going forward.

The Building and Grounds staff has been working very hard as well as the School Custodial staff with all of the snow we have been getting the past several weeks. They all have to deal with the snow as well as their regular duties so they all have been working additional hours.

The school project Guaranteed Maximum Price (GMP) has been submitted to the School Board for approval with Eckman Construction. Groundbreaking is still on schedule for April 2018 with the exact date still up in the air due to snow, but the project completion is still a 2 1/2 year time frame. We have placed out to a competitive bid process 7 "Request for Proposal" for the School and Town projects with an end of March public bid opening. We place all of our RFPs on either the Town or School websites, send emails to local contractors and list the projects with several reporting agencies such as the Dodge Reports, Construction Journal, CDC News, Etc. to get the information out to the contractors.

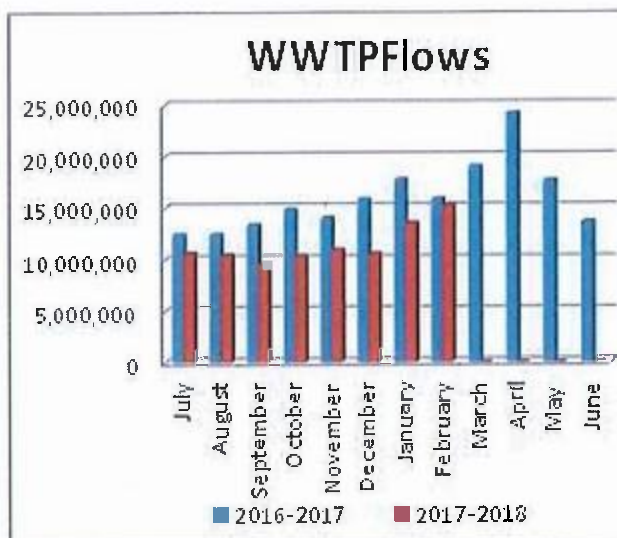
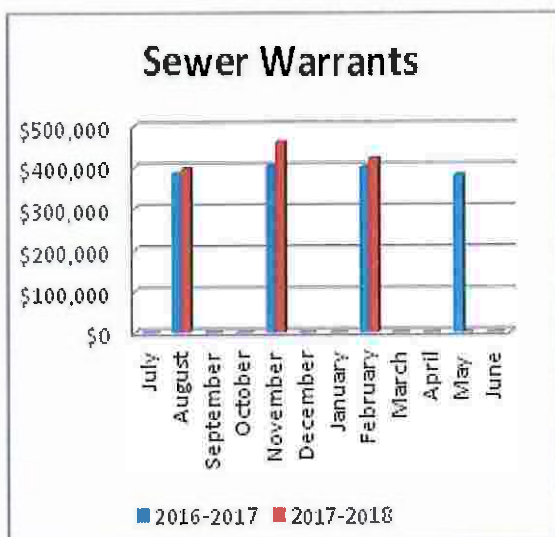
The Building and Grounds crews continue to do regular maintenance and grounds care throughout the town. The School based custodial staff are back into their regular routine.

FACILITIES

Budget	<u>FISCAL YEAR 2018</u>		Balance Year	% Spent
	MTD Transactions	YTD Transactions		
545,965.00	25,959.78	333,322.38	212,642.62	61%

Budget	<u>FISCAL YEAR 2017</u>		Balance Year	% Spent
	MTD Transactions	YTD Transactions		
482,233.00	34,287.46	294,830.56	187,402.44	61%

Environmental Services Department System Report



February 7, 2018

The Wastewater Department installed a backup program in the Creighton Street Pumping Station PLC.

February 8, 2018

The Huber Dewatering Press stopped working. The variable frequency drive (VFD) had failed, and needed to be replaced. A new drive was installed and programmed. The press was restarted and the new VFD stopped working. It was found that the wires in the conduit that connect the VFD to the press motor were bad. The electrician pulled new wires and the dewatering press was put back into service with no problems.

Aeration tank one, zone D air valve was found to be not working properly. The valve would not regulate or shut fully. The RotoK Valve Technician arrived on site and found that the actuator was the problem. The parts are on backorder. The valve should be fixed in mid-March.

February 14, 2018

The wastewater pumping station generators were run as part of the Department's Preventive Maintenance Program. The Creighton Street generator engine was found to have a leaky block heater. TriState Generator LLC performed the necessary repairs, and put the generator back into service.

February 16, 2018

Aeration tank two, zone D air valve was found to be not working properly. The RotoK Technician replaced most of the circuit boards, but the valve still did not work. The valve was removed and sent back to the shop for repairs.

*Due to the zone D valves not working properly, the treatment process is not able to reach optimization.

February 21, 2018

The aeration tank replacement electrodes for the Redox probes were installed.

February 27, 2018

The Wastewater pumping station emergency generators were run as part of the Department's Preventative Maintenance Program.

February 28, 2018

The inflow line to the Salmon Street Pumping Station was cleaned with the Town's Vac-Truc.

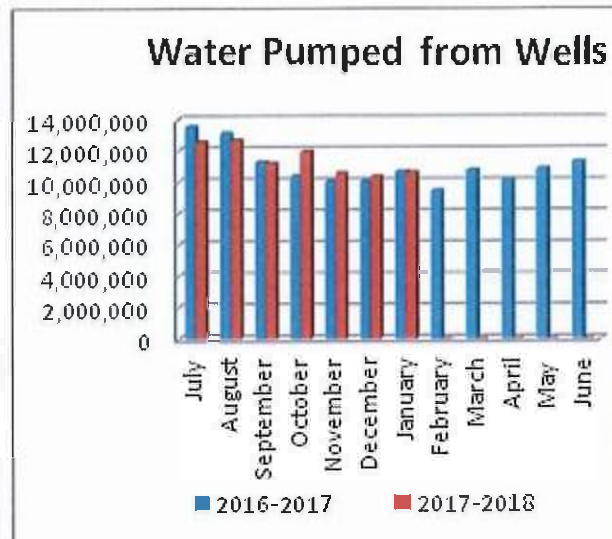
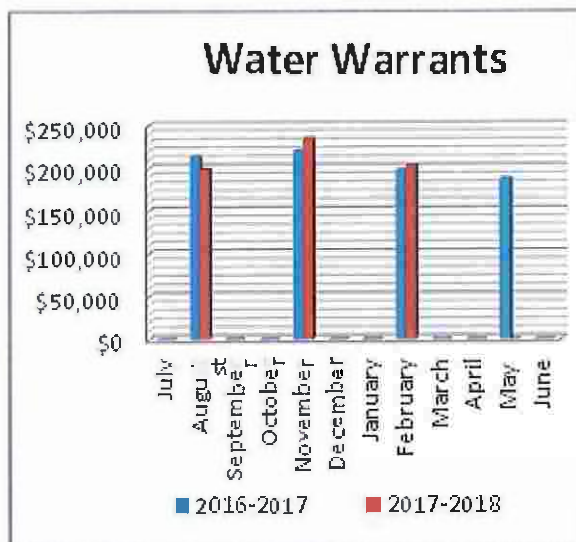
Monthly Operations Report															
Newmarket WPCF															
Permit# NH00100196															
February-2018															
Primary Operator Sean Greig															
	Inf. Flow				Eff. Flow MGD		BOD		TSS		Total		PH		Chlorine Residual
	MGD	Min	Max	Total	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.	Nitrogen	Inf.	Eff.	Colif.	
1	.4120	.16	0.9	.4250								7.4	6.9	<2	2
2	.4270	.16	0.9	.4250								7.7	6.8	<2	2
3	.4470	.07	1.0	.4190								8.0	7.0	1	8
4	.4600	.13	1.1	.4720								7.9	7.0	1	6
5	.5200	.21	1.1	.5340								7.7	6.9	<2	6
6	.4240	.10	1.1	.4150								7.6	6.9	2	4
7	.4440	.08	1.1	.4410		5.2		3.4	3.5	7.7	7.0	4	2	0.00	0.00
8	.4230	.11	1.0	.3960		5.0		2.6	4.1	8.0	7.0	<2	2	0.00	0.00
9	.4080	.07	0.9	.3800						8.0	6.7	8.5	4	0.00	0.00
10	.4480	.13	1.0	.4520						8.0	6.7	<2	3	0.00	0.00
11	.7430	.21	1.7	.7560						7.8	6.8	2	6	0.00	0.00
12	.6100	.18	0.5	.6110						7.7	6.8	<2	9	0.00	0.00
13	.5450	.00	1.4	.5320		4.5		4.9	5.0	7.9	7.0	<2	6	0.00	0.00
14	.5200	.05	1.2	.5520	255	4.8	271	4.4	5.4	7.7	7.1	2	4	0.00	0.00
15	.5170	.19	1.0	.5480						7.5	7.0	<2	1	0.00	0.00
16	.5200	.22	1.4	.5590						7.7	6.9	2	15	0.00	0.00
17	.5320	.20	1.1	.5220						7.6	6.9	<2	4	0.00	0.00
18	.5390	.19	1.1	.5400						7.6	6.8	21	1	0.00	0.00
19	.5500	.15	1.1	.5470						7.7	7.2	<2	9	0.29	0.28
20	.6350	.28	1.2	.6670		5.4		2.8	7.2	7.5	7.0	<2	3	0.41	0.00
21	.6270	.34	1.3	.6670		6.6		5.4	6.2	7.4	6.8	4	4	0.13	0.05
22	.6280	.36	1.3	.6260						7.3	6.9	1	10	0.14	0.00
23	.5930	.26	1.1	.5940						7.5	6.9	15	16	0.00	0.00
24	.6040	.30	1.2	.6060						7.3	7.1	3	4	0.00	0.00
25	.6660	.23	1.4	.6780						7.5	7.0	<2	4	0.00	0.00
26	.6440	.00	1.5	.6880	224	6.9	224	5.6	6.0	7.5	6.9	8.5	33	0.76	0.33
27	.5830	.34	1.5	.6100		6.6		5.9	5.0	7.4	6.8	1	8	0.55	0.00
28	.5620	.14	1.2	.5730						7.5	6.8	<2	6	0.06	0.00

Average Wastewater Flow Discharged: 0.5441 Million Gallons/Day

Biochemical Oxygen Demand (BOD) Removal: 98%

Total Suspended Solids (TSS) Removal: 98%

Total Nitrogen (TN) Average Discharge per day: 5.3 mg/L, 24.1 pounds



February 2, 2018

Water meter was installed and water was turned on at a new duplex building on Hillside Lane.

February 5, 2018

Fuel Company repaired the vaporizer for the MacIntosh Well emergency generator.

February 6, 2018

The Department performed the required monthly water system sampling and testing.

February 14, 2018

Repaired a fire hydrant on Bennett Way.

The Department performed the required monthly water system sampling and testing.

The Department received a 1,550 gallon caustic soda delivery for the Bennett and Sewall Wells.

February 18, 2018

The Accu-tab chlorinator at the Sewall Well was not working properly. It was found that the float was stuck. The float was fixed and the chlorinator was put back into service.

February 20, 2018

Installed a new water meter and turned on water at 2 Durrell Drive.

February 22, 2018

Water quality sampling was performed at the MacIntosh Well.

February 27, 2018

Water Department personnel was called in for a water leak at 12 New Road. It was found that 12 New Road plastic water service was leaking. The Water Department with the Public Works Department replaced the leaking water service with a new copper water service.

FEBRUARY PUMPING TOTALS 2018							
Date	Bennett	130gpm	Sewall	200gpm	Mac Well	315gpm	
	Hrs	Gallons	Hrs	Gallons	Hrs	Gallons	Total
1	7.8	60,435	7.8	92,867	7.6	142,700	296,002
2	9.9	77,016	9.9	118,450	8.7	164,300	359,766
3	8.6	66,928	8.6	102,967	9.2	176,900	346,795
4	9.2	71,367	9.2	109,984	9.0	169,100	350,451
5	7.9	61,496	7.9	96,016	7.5	142,800	300,312
6	9.5	73,663	9.5	111,867	9.3	175,200	360,730
7	8.1	62,722	8.1	96,542	7.8	148,100	307,364
8	9.7	75,230	9.7	115,639	9.3	174,800	365,669
9	7.4	58,004	7.4	89,302	7.2	136,080	283,386
10	10.2	79,558	10.2	122,293	9.2	173,880	375,731
11	9.3	72,574	9.3	111,702	9.8	186,600	370,876
12	8.1	62,890	8.1	96,712	7.9	148,500	308,102
13	8.1	62,967	8.1	98,172	7.7	144,600	305,739
14	9.7	75,718	9.7	115,000	9.6	182,200	372,918
15	8	62,566	8	96,242	7.8	147,900	306,708
16	9.6	74,210	9.6	114,177	9.2	174,400	362,787
17	8.8	68,709	8.8	105,794	8.6	162,700	337,203
18	10.8	83,714	10.8	128,785	10.1	190,000	402,499
19	8.4	64,998	8.4	100,800	8.5	161,100	326,898
20	8.2	64,016	8.2	100,563	8.1	153,200	317,779
21	10.5	81,366	10.5	124,944	10.2	191,600	397,910
22	7.9	61,288	7.9	94,233	7.6	144,700	300,221
23	7.8	60,687	7.8	93,362	7.6	143,400	297,449
24	10.0	77,564	10.0	119,297	9.6	182,500	379,361
25	9.1	70,421	9.1	108,344	8.9	166,800	345,565
26	7.8	60,309	7.8	92,881	7.5	142,200	295,390
27	9.6	74,380	9.6	114,322	9.2	174,700	363,402
28	7.6	59,143	7.6	90,929	7.4	139,500	289,572
Total	247.6	1,923,939	247.6	2,962,186	240.1	4,540,460	9,426,585
AVG. Day	8.8	68,712	8.8	105,792	8.6	162,159	336,664
Max Day	10.8	83,714	10.8	128,786	10.1	190,000	402,499

WATER**FISCAL YEAR 2018**

Budget	MTD Transactions	YTD Transactions	Balance Year	% Spent
1,137,780.00	40,343.28	868,543.09	269,236.91	76%

FISCAL YEAR 2017

Budget	MTD Transactions	YTD Transactions	Balance Year	% Spent
932,813.00	42,911.15	649,221.92	283,591.08	70%

SEWER**FISCAL YEAR 2018**

Budget	MTD Transactions	YTD Transactions	Balance Year	% Spent
2,182,426.00	419,666.05	1,413,223.17	769,202.83	65%

FISCAL YEAR 2016

Budget	MTD Transactions	YTD Transactions	Balance Year	% Spent
1,177,968.00	52,954.35	739,044.50	438,923.50	63%

Information Technology

1. Work has begun in earnest to move to MUNIS the new accounting software. This has been taking up a lot of my time and will for the foreseeable future.
2. As part of the new finance software, I am also working to install the new software that will be needed in Town Clerk and Tax Collection, as MUNIS has no interface for these departments. This is also a large amount of work that needs to be planned for and completed.
3. The redo of Chambers has created a lot of work for both the IT part of the world as well as Channel 13.
4. Cancelling phone lines, adding phones, moving phone lines from one building to another. At some point this should all slow down.
5. Out link to Tyler for MUNIS is now up and active and we are starting how the database layout will look, who will have what access, and how will the connection work and stay active?
6. We finished the integration of Newfields Police back into our Dispatch center, including the mobile laptops. Meanwhile Newmarket's mobile laptops have been having a fair amount of issues to deal with as well.
7. Personnel moves lately have been adding a lot of small tasks...Rec moving to Finance, Finance moving to Water, Asst Rec moving to Rec Special events, etc. This means moving phone lines, moving security on the servers, adding and removing permissions to programs, etc.
8. Lots of cleanup going on as we remove old equipment and (in some cases) replace it with newer equipment. Going to be keeping the tech recyclers busy.

IT

<u>FISCAL YEAR 2018</u>					
Budget	MTD Transactions	YTD Transactions	Balance Year	% Spent	
139,422.00	9,779.65	102,477.76	36,944.24	74%	

<u>FISCAL YEAR 2017</u>					
Budget	MTD Transactions	YTD Transactions	Balance Year	% Spent	

135,558.00	11,907.21	102,348.01	33,209.99	76%
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Office of Building Safety, Health and Zoning Enforcement

Previous Month Activities

Permits Issued			
7	Building	\$2165	
9	Electrical*	\$1069	1 paid fee waived (Town-owned Property)
1	Plumbing	65	
7	Mechanical	\$403	3 paid w/ building permit

Total Permit Revenue

\$3702

*It is encouraging to note that we had four solar photovoltaic systems installed in just one month

February was not only a short month, but we also enjoyed the typical January/February seasonal slow period. The pace has picked up as all the spring and summer projects are going through the approval process.

The pace at Rockingham Greens has slowed dramatically as the project approaches 100% build out.

This summer we'll be busy with Boulder Brook, Lamprey's Edge and the old Selectwoods Building.

Again, we would like to give accolades to Lane Cheney for his dedication to the historical preservation of the Selectwoods Building. The return on investment would have been greater if he razed the existing building and

- Conducted 19 regular construction inspections
- Assisted three property owners with renovation and expansion plans
- Attended Monthly Strafford Regional Planning Commission Transportation Advisory Committee meeting.

- Attended engineered wood products seminar sponsored by the New Hampshire Seacoast Building Officials
- Worked with several property owners on renovation and re-use of properties

**BUILDING
INSPECTION**

Budget	MTD Transactions	<u>FISCAL YEAR 2018</u>		Balance Year	% Spent
		YTD Transactions			
70,731.00	5,028.41	46,027.32		24,703.68	65%

Budget	MTD Transactions	<u>FISCAL YEAR 2017</u>		Balance Year	% Spent
		YTD Transactions			
69,755.00	5,297.23	45,963.94		23,791.06	66%

Town Clerk - Tax Collector

TAXES

Total Committed 2017	\$19,905,115	Tax 1 & Tax 2
Total Collected thru 2/28/18	\$19,760,009	Principal & Interest

TAXLIENS

	2016 Liens <i>(Deed 2019)</i>	2015 Liens <i>(Deed 2018)</i>	2014 Liens <i>(Deed 2017)</i>
Property Tax Amount Liened	216,555	196,946	209,291
W/S Amount Liened	0	66,195	71,925
# Properties Liened	71	93	111
Uncollected thru 2/28/18	99,232	72,477	6,188

WATER & SEWER (1/1 THRU 2/28/18)

	<u>2018</u>	<u>2017</u>
Water Billed	203,325	197,852
Sewer Billed	421,211	400,494
Uncollected thru 2/28/18	326,457	267,942

TOWN CLERK REVENUE (7/1/17 thru 2/28/18)

	<u>Year End</u> <u>6/30/18</u>	<u>Year End</u> <u>6/30/17</u>	
Motor Vehicle (MV)	1,005,902	972,609	3.42% increase
Town "non-MV"	87,821	81,012	8.40% increase
State NH (MV, Vitals, Boats, Dogs)	338,075	323,596	4.47% increase

- Motor vehicles still on the upswing
- Daily activity steady
- Proofed and ordered ballots for Town Election
- Preparing for Town/School Election; processing absentee ballot requests
- 2017 Lien Date: April 12, 2018
- 2015 Deed Date: June 14, 2018

**TOWN
CLERK**

FISCAL YEAR 2017

Budget	MTD Transactions	YTD Transactions	Balance Year	% Spent
168,528.00	13,296.34	106,034.30	62,493.70	63%

FISCAL YEAR 2015

Budget	MTD Transactions	YTD Transactions	Balance Year	% Spent
176,442.00	11,478.40	111,866.22	64,575.78	63%

Planning Department

Planning Board Activities

Status of approved applications of the Planning Board:

Rockingham Golf, LLC (a.k.a. Chinburg Builders, Inc.) is developing a residential open space design subdivision, involving 52 house lots, at the site of the Rockingham Country Club at 200 Exeter Road. The development, "Rockingham Green", envisions the existing golf course, to remain open to the public, and the adjacent wetlands to be preserved as open space. Construction activity has moved along expeditiously at the site. Road construction is nearly complete with only the overlay to be completed. A performance guarantee has been posted in the amount of \$106,000 to assure final completion of the road and all related infrastructure improvements. The developer has received Certificates of Occupancy (COs) for forty three (43) homes in the development. Three (3) homes have building permits open and are currently under construction. The subdivision is nearly 83 % built-out.

Newmarket Industrial Park Lot 6 and 7, LLC/Shearwater Investment Corporation – The owners of the Industrial Park have recently purchased parcels which front on Route 108 in order to create two new industrial sites at the Industrial Park. The applicant had previously received approval in 2015 for an expansion to the adjacent property in order to construct a 24,000 square foot addition. As part of the earlier project, the intersection of Forbes Road and Route 108 was improved with a right turn lane and larger turning radii in coordination with the NH Department of Transportation (DOT). Recently, the developer announced the tenant for the expansion on the adjacent parcel has backed out of the project. The applicant has returned to the Planning Board for consideration of a scaled down version of the project. The new project involves the construction of a 24,000 square foot stand-alone industrial building on one of new lots and a boundary adjustment in order to modify the two (2) lots so they are larger and have more frontage than required. At the November 14, 2017 meeting of the Planning Board, the application was accepted for review. At the February 13, 2018 Planning Board meeting, the application was continued until the March 20, 2018 meeting to allow the Technical Review Committee to weigh in on remaining sewer design and bank stabilization concerns. The application was continued at the March 20 meeting at the request of the developer. The project is expected to receive a conditional approval at the April 8, 2018 Planning Board meeting.

The Planning Board has received a second application from the Maplewood and Vaughan Holding Co. LLC for a new 22,000 square foot industrial building on adjacent Lot 6. This application has been scheduled for an acceptance public hearing on April 8, 2018.

Hayden Place - Residential Open Space Development at 74 Bald Hill Road is being developed by Chinburg Builders, Inc. The Planning Board approved a special use permit for this project in 2014. The project involves the construction of ten (10) single family homes and 650 feet of

roadway at the foot of Bald Hill with adjacent lands being preserved in perpetuity as open space. A twenty-one (21) acre open space tract has been conveyed to the Southeast Land Trust (SELT) which will maintain and act as stewards of the conservation land. Road construction has proceeded expeditiously with only the final overlay to be completed. A performance guarantee has been posted to ensure the completion of road work and to allow the issuance of building permits for the remaining houses. Certificates of occupancy for nine (9) homes have been issued and the last building permit has been issued for a single family home which is under construction. The subdivision is over 90% built-out at this time.

Jarib M. Sanderson -- Robin Realty Newmarket Trust/Tuck Realty Corporation filed an application for a Special Use Permit for a residential open space design subdivision involving 11 lots at 36 Dame Road, Tax Map U2, Lot 297, and Bay Road, Tax Map U2, Lot 320, both in the R1 Zone. The special use permit was conditionally approved by the Planning Board at its July 12, 2016 meeting following a site walk and review by the Technical Review Committee (TRC) of the Planning Board. A more detailed subdivision application was submitted in the August and was conditionally approved at the November 15, 2016 Planning Board meeting.. Construction was started in April 2017. Construction has progressed and former issues with drainage and erosion control have been addressed. The first course of paving on the road was completed in early November. The Town's consulting engineers completed an inspection of the project on December 7. There remains a punch list of items that will need to be completed in the Spring of 2018. The property owner is working on securing a \$60,000 letter of credit, as a performance guarantee to assure completion of the remaining site improvements. The applicant is hoping to transfer five (5) of the lots in the subdivision this spring, to a new builder, who will be seeking building permits shortly.

Eric DeWitt, 81 Exeter Road, Tax Map U3, Lot 137. The Planning Board conducted a Design Review for a mixed-use project located in the B-1 Business zone. The applicant wishes to remove the existing structures on the site and construct a two story building. The first floor would be commercial space to allow for two small businesses and the second floor would house eight studio style apartments. The project was well-received by the Planning Board which discussed issues with stormwater and driveway access.

Jonathan and Caitlin Smith, 14 Woods Drive, U-1-1-50, R-2 Zone. The applicant has requested a waiver of impact fees for an accessory apartment at 14 Woods Drive, Tax Map U1 Lot 1-50, R2 Zone. There were several questions raised by Board members whether under the new RSA pertaining to Accessory Dwelling Units (ADU's) impact fees can be waived for a single unit occupancy. The application was continued to the Planning Board meeting on April 8, 2018 to allow the Town Council to review and, hopefully, adopt new zoning language pertaining to waivers from impact fees for accessory dwelling units.

Future Land Use Plan and Zoning Changes. At its November 2016 meeting, the Planning Board prioritized action items for implementing the recommendations of the Future Land Use Chapter. The top priorities were to bring forward for consideration zoning changes for both a Continuing Care Retirement Community (CCRC) and Skilled Nursing Facility (SNF) Overlay District that had been recommended by the Economic Development Committee (EDC). The Planning Board subcommittee met several times to review reference materials related to these housing concepts and other zoning changes. The Planning Board forwarded a new Skilled Nursing Facility Overlay District on New Road to the Town Council for consideration at the end of the summer of 2017. The Town Council held a public hearing at the October 18, 2017 meeting and unanimously adopted the ordinance. At the November 14, 2017 meeting of the Planning Board, the Board set up another Zoning Subcommittee to address the remaining recommendations of the Economic Development Committee regarding the rezoning of property within the B-3 District on Route 152 to allow for a Continuing Care Retirement Community (CCRC). The committee plans to hold a workshop meeting with landowners, real estate professionals, and other stakeholders sometime during the spring. A joint meeting will be held with the Town Council to discuss strategies to advance this concept later this spring.

The Planning Board held a public hearing at its meeting on March 20 on proposed changes to the Town's Zoning Ordinance to allow the Planning Board to waive impact fees for accessory dwelling units that do not increase the number of bedrooms, as such projects generally do create additional demands on municipal services, the schools, and water and wastewater systems. The proposed zoning amendments will be presented to the Town Council for a first and second reading in April.

FEMA Floodplain Maps and Ordinances- The Federal Emergency Management Agency (FEMA) has sent the Town new Flood Insurance Rate Maps (FIRM). Whenever new maps are produced, communities, such as Newmarket, which are participating in the National Flood Insurance Program, are required to have ordinances in place which are compliant with federal regulations. The NH Office of Energy and Planning (OEP) has conducted a compliance review of our regulations and forwarded recommendations for updating our regulations. The Planning Board will need to make amendments to the zoning, subdivision and site review regulations to assure Newmarket's continued eligibility in the program. The Planning Board set up a subcommittee to work with the Community Development Director on these amendments for consideration at a future meeting. We have received word from the NH OEP that there was an appeal regarding the new floodplain maps. The deadline for adopting new maps and revising the zoning ordinance has, therefore, been postponed. Copies of the preliminary floodplain maps are available for public viewing in the Planning Office and have been posted on the Town's website. Recent discussions with the NH OEP/FEMA representative indicated that it

may be another year before the maps are finalized and can be adopted.

Special Projects

Route 108 Pedestrian Crossings: The Downtown Pedestrian Crossing Improvement project is 100% complete. During the month of June, the Contractor completed several punch list items, including the resetting of pavers, and the repair of the paver depression in the crosswalk in front of the Big Bean. In August, a pavement marking subcontractor was hired by the Town to complete crosswalk striping and street markings. A final inspection with the NH Department of Transportation was held on Friday, October 20. The Town is now in the process of collecting final project documentation from the contractor and subcontractors so the project can be closed-out.

Macallen Dam Feasibility Study: Since 2005, the Town has approved funding every year for the Macallen Dam Capital Reserve Fund in order to address deficiencies at the dam. Most recently, the Town issued a Request for Proposals (RFP) for engineering services which will look at the current stability of the dam as well as the option of raising the abutments in order to meet requirements to pass the 100 year flood. Engineering proposals from three (3) firms were received on October 2015. Awarding the contract for the stability analysis was placed on hold, for several months, while follow-up work on the hydraulic calculations was completed. The Town's consultant, Gomez and Sullivan (G&S), put together a technical memorandum regarding the design flows associated with increasing the capacity of the dam, which is one of the outstanding items in the NH Department of Environmental Services (DES) Letter of Deficiency. The Town now has a more refined model in place to evaluate various dam modifications and repairs including increasing the height of the abutment walls to meet the required design flows. With the new model, the 100 year design flow is 9,824 cfs, with a water surface elevation of 33.61 feet at the dam with the gates closed.

At a June meeting of the Macallen Dam Study Committee, with NH DES, it was clarified that if the Town just focuses on improvements to the abutment walls, a complete stability analysis would only have to be completed on that aspect of the dam and not the entire dam structure which would result in reduced costs for the Town. Also, the breach analysis would not have to be re-done resulting in further cost reductions. A final draft of the summary report, including an updated model, was submitted by G&S to the Committee during the early summer of 2017 and was approved by the NHDES.

In July 2017, the Town Administrator was authorized by the Town Council to enter into a consulting contract with GZA GeoEnvironmental to complete a stability analysis and conceptual design related to increasing the height of the abutment walls on either side of the dam. This study resulted in preliminary cost estimates for repair of the dam. A summary report

has been prepared by the consultant for review and approval by the NH DES Dam Bureau.

A public presentation was held on December 6 at which GZA provided an update to the Town Council on the findings of the Macallen Dam: Stability Analysis and Conceptual Design of Remedial Alternatives. The consulting team presented three (3) options for alignment of walls on the right hand abutment, enhancements to the left hand abutment, as well as options for replacing the existing gate system with more contemporary crest gates that are hydraulically operated and pneumatically operated, ranging in price from \$1,460,000 to \$1,540,000. A title opinion from the Town's legal counsel has confirmed that the property right of the dam and north of the Durham Book Exchange Building adjacent to the fish ladder is owned by the New Hampshire Fish and Game Building. There will be a public hearing in the late Spring 2018 to solicit input from the citizens on the "preferred alternative" so the Town can move forward with final engineering design. The Town recently received a letter from the NH DES approving the conceptual design report prepared by the Town's consultant, GZA.

The Macallen Dam Study Committee is continuing its due diligence in meeting with various stakeholders to review the various conceptual designs for addressing the Letter of Deficiency from NH DES. The study committee will meet again in mid-April to discuss next steps in the process and to share the information obtain through the process. The Town Planner has recently prepared a grant proposal to the National Park Foundation, which if successful, would help to finance a waterfront park adjacent to the dam for viewing the river as an extension to the project and the town's riverwalk.

MS4 Program - Planning staff continues to monitor progress with respect to the MS4 program by attending the Seacoast Stormwater Coalition Meetings. The Coalition has organized a program to assist communities in the region with meeting the minimum NPDES permit requirements to help minimize costs and prevent the duplication of services at the local level for work tasks such as outreach, the bulk purchase of water quality monitoring equipment and shared contracting for laboratory work. Newmarket will be participating in this effort to help prepare the Town for the MS4 program. On January 18, 2017 the US Environmental Protection Agency (EPA) authorized the much-debated and highly anticipated General Permit for Stormwater Discharges from Small Municipal Separate Storm Sewer Systems (MS4s) for New Hampshire. The effective date of the permit is July 1, 2018, which gives Newmarket more time than expected for setting up the program and for budget planning. Meanwhile, at the Town Council meeting on May 3, 2017, the Town Council voted unanimously to join the efforts of the NH Stormwater Coalition to appeal the MS4 permit that was issued by EPA and awaits a decision from the courts on the appeal. Town staff attended MS4 stormwater training in Portland, Maine in October. Under the terms of the permit, the Town needs to submit a Notice of Intent (NOI) by October 1, 2018. The NOI provides a summary of best management practices to be employed by the Town under the five (5) year MS4 program to address public

education and outreach, public involvement and participation, illicit discharge detection and elimination, construction site stormwater runoff control, post construction stormwater management, and good housekeeping and pollution prevention measures.

Stormwater Management Regulation Update - The Town has received a \$8,000 grant from the Setting Sail Program, a NOAA Project of Special Merit, to update the Town's stormwater regulations that were originally developed in 2010. The new regulations will reflect state of the art thinking about stormwater and new technologies that have been developed for stormwater management. These new regulations will assist the Town in meeting requirements under the MS4 Program as well as provide the town with more resiliency against coastal hazards, riverine flooding, and sea-level rise. Kyle Pimental of the Strafford Regional Planning Commission presented the subcommittee's recommendations for the updated ordinance at the January 23, 2018 Planning Board Meeting. A workshop was held at the Planning Board meeting on February 13, 2018 and further clarifications were requested on the draft ordinance. The Planning Board is expected to send the proposal back to the subcommittee for further modifications and to solicit input from the development and engineering community.

Other

Zoning Board of Adjustment - The Zoning Board of Adjustment approved an application for a Special Exception from Michael and Elaine Mangan to convert an existing duplex to a single-family dwelling with an accessory apartment at 5-7 Creighton Street, Tax Map U3, Lot 15, R4 Zone at March 12, 2018 Zoning Board meeting.

Community Development - Staff has been assisting the Newmarket Housing Authority in pulling together equal employment opportunity, civil rights and handicapped accessibility information and financial documents related to the Community Development Block Grant (CDBG) the Town has received involving renovations to the Great Hill Terrace.

PLANNING	<u>FISCAL YEAR 2018</u>				
	Budget	MTD Transactions	YTD Transactions	Balance Year	% Spent
	126,215.00	11,421.43	84,127.79	42,087.21	67%
	<u>FISCAL YEAR 2017</u>				
	Budget	MTD Transactions	YTD Transactions	Balance Year	% Spent
	122,676.00	11,398.38	82,433.95	40,242.05	67%

Finance Department

Department's primary function:

- Process accounts payable, payroll, and accounts receivables not under the control of the Tax Collector.
- Monitor human resources, fiscal budget, and financial analysis and forecasting.
- Providing financial assistance and analysis to Town Departments.

Essentially, we are the “fiscal watchdog;” however, we are mindful that we are simply a service organization to other departments and the Town’s elected leaders.

Projects:

- Fiscal Year 2019 budget approved by voters. Voting results including MS-232 is being prepared for Council approval.
- Financial Software implementation kickoff meetings have been completed with vendors Tyler and Interware. A review of roles and responsibilities related to the project has been completed. Critical dates and project milestones for success are being created.
- Audit work complete and annual report submissions provided.
- Internal employee identified as the chosen candidate for vacated Accounting position supporting payroll and accounts payable.
- Department continues to work on account reconciliations, review and tracking of expenses.

Economic Indicators

Final water and sewer bills are an indicator of real estate sales. The following are final water and sewer bills by month.

Month	FY17vs FY18		%		FY16vs FY17		%	
	FY 18	FY 17	Increase/ (decrease)	Increase/ (decrease)	FY 16	Increase/ (decrease)	Increase/ (decrease)	
July	25	17	8	47.06%	22	(5)	-22.73%	
August	16	10	6	60.00%	11	(1)	-9.09%	
September	12	8	4	50.00%	12	(4)	-33.33%	
October	9	17	(8)	-47.06%	11	6	54.55%	
November	12	14	(2)	-14.29%	12	2	16.67%	
December	8	6	2	33.33%	8	(2)	-25.00%	
January	8	8	-	0.00%	16	(8)	-50.00%	
February	6	7	(1)	-14.29%	10	(3)	-30.00%	
March		6			10	(4)	-40.00%	
April		9			7	2	28.57%	
May		12			12	-	0.00%	
June		12			17	(5)	-29.41%	
Total	96	126	9	7.14%	148	(22)	-14.86%	

MRI Report:

MRI identified two areas of improvement for the Finance Office with current updates follows:

1. "Paperless decentralized purchasing and invoice payment should continue to be a goal for the near future."
Update: Financial Software Implementation has started. Restatement of Chart of Accounts is in process. Implementation phasing schedule by module is being developed.
2. "Consolidation of the Town and School finance/business operations. In the absence of a successful consolidation the outsourcing of the payroll function should be considered."
Update:
Consolidation of Director's position is operational.

FINANCE

FISCAL YEAR 2018

Budget	MTD Transactions	YTD Transactions	Balance Year	% Spent
227,750.00	16,621.45	127,290.19	100,459.81	56%

FISCAL YEAR 2017

Bndget	MTD Transactions	YTD Transactions	Balance Year	% Spent
206,844.00	23,320.61	125,224.83	81,619.17	61%

HR

	Budget	MTD Transactions	<u>FISCAL YEAR 2018</u> YTD Transactions	Balance Year	% Spent
	1,628,692.00	94,724.33	1,073,578.55	555,113.45	66%

	Budget	MTD Transactions	<u>FISCAL YEAR 2017</u> YTD Transactions	Balance Year	% Spent
	1,515,143.00	88,251.65	1,015,142.45	500,000.55	67%

Recreation Department

Recreation Fiscal Business Report:

Our current Fiscal 2017/18 in the *Revolving Account Revenue* is at a record **\$134,674** collected to date. We were ahead of last year's revolving account in revenue by **\$32,826** which was at **\$101,847**.

Grants - We happy to announce that we received 3 Grants from NCEP last month totaling **\$2700**, which will be used to offset programing costs.

Revolving Account Expenditures:

To date we have currently expended **72%** of our \$279,115 budget, as compared to **66%** spent of last year's budget of \$243,433 at this same time. Again, it is estimated that the increase in expenditures this fiscal year as compared to last fiscal year was due to the additional monies spent at the beginning of the fiscal year July 1 due to increased payroll in summer camp as we added more campers, as well as, other field trip added options. A P&L negative offset will remain in the red until next the monthly report of 2018 when summer camp enrollment and revenue collection once again brings us back in the black.

General Fund Expenses are LOWER YTD compared to last fiscal year by **\$7,493**.

Personnel Report

Our fully staffed status as reported last month, was short lived. In February our Office Manager, Dee McCarthy, announced she will be leaving the Rec where she has been employed for over 5 years. Although we are sad she will be leaving the Rec, we are happy that she won't be going very far as she will be moving to the Finance Department in AP. So once again, as of March 19th we will be short staffed once again. The Office Manager position has been posted and we hope to have someone on board ASAP as this position is vital to the Rec Department's day to day operations. As of the writing of this report we are right in the middle of interviewing our seasonal summer staff. This is a timely process as we hire up to 40 seasonal staff each summer. Applications were due March 9th and we have many good candidates who have turned in resumes and applications. In fact, this year we received a larger number of applications/resumes from more qualified candidates than we have in the past. I believe this is because we raised the hourly rate to reflect a more similar rate for camp counselors and administrative staff in the area.

Recreation Community Events

After the success of last month's *Annual Daddy Daughter Date Night*, we are in the planning stages for our *Annual Mother Son Dance*. Unfortunately we do not get nearly the numbers as we do for the DDDN, we have downsized the venue to the Community Center in the past. In effort to increase participation, we hired more entertainment as an incentive to increase attendance. This year's theme is *Circus* so we hired Casper the Spectacular from Boston who has a juggling, unicycle, and balloon animal show. Registration is now ahead of last year at this same time, so we think it did the trick and we plan to hold the event at the Mill Space instead of the Rec Center.

At the end of the month we will host our Annual Easter Egg Hunt. This is such a popular event that we hardly market it in an effort to keep numbers as bay. Last year we had approx. 300 kids hunting eggs. On order to make all the kids happy, there are a lot of eggs to fill and hide! However, due to our successful recycling efforts we will not have to buy any new eggs. Never the less it is still quite costly to fill all the eggs and provide winning prizes. We only charge \$3 / child and \$2 for any additional children, so we still lose a little money each year due to the overall expenses including payroll.

We are very excited to announce that in April we will be co-hosting with the NBA our first Annual *Sugar & Spice and Everything Nice EXPO* at the MillSpace. Rather than both organizations doubling our efforts, we approached the NBA and suggested we combine the Ree's *Annual Mommy & Me Tea* with the NBA's Annual *Ladies Night Out* vendor event. The Rec Connect Win-Win is that the Rec will help drive the demographic traffic into the venue for the vendors by hosting our Mommy & Me Tea inside the venue while the vendor show is going on. In exchange, the vendors will all donate a raffle prize to raise money for the Rec. Marketing is under way and you will see posters and an event page up soon.

Summer Camp Program

Our 2018 Camp Warma Iguana summer camp program has been major focus around Newmarket Rec this past month. Registration for this program opened up on March 1st and is our largest program year after year. Last year we had about 280 campers attend our 7 week, 5 days/wk program. While our numbers aren't yet final for Summer Camp 2018, it has still proven to be a busy registration period. We do expect to sell out sooner than last year.

We have worked hard to change part of the camp registration process this year and are happy to report that it has paid off! In past years, the camp reg. forms required for each camper included up to 7-8 handwritten pages. To follow up on paperwork and ensure that everything was completed took many hours and staff. We are thrilled to report, that this year, we created all the forms online and takes only about 15 minutes/camper to complete and submit. To do this, we utilized a new features available to us through RecDesk software. The feedback from parents and staff about this streamlined process has been overly positive.

Our biggest concern right now is about the parking situation while the camp is running. In previous years, the HS parking lot is where all staff park and where parent park to drop off and pick up their children. We are currently in discussion with town departments about a new plan for parking since we will not have access to the HS lot during camp.

Recreation Programming

In other programming news, March was the beginning of our extended Playgroup hours. This has been successful with parents, instructors and children as is provides more positive development time for these 3-5 year olds as they prepare for Kindergarten. In addition to our playgroup program for this age group, this month we will see the addition of a clowning drama class, music classes, and lacrosse sport for this age group.

Through the successful acquisition of an NCEP grant, we will be offering our popular GRL PWR

program this spring for two separate sessions. The grant will help to cover some features of this program. Another NCEP grant awarded to the Rec will provide us the financial support to update kitchen equipment and allow more cooking programs in the future.

With spring weather on the way, field space and outdoor programs are the current focus of future planning. It was determined that Newmarket will not participate in the field hockey jamboree organized by other local Rec departments this year. Instead, energy will be focused on offering youth and adult evening/weekend sport opportunities. We are looking forward to our programming plans to provide new and favorite program opportunities for our community.

Sunrise Sunset Briefing will cover both January and February

We strummed our way into the New Year with our newest program offering, the Sunrise Strummers Ukulele Band, which meets each Friday afternoon for an hour of self-taught lessons. With the assistance and encouragement of more experienced Ukulele players in the area, we're honing our skills to get up to speed and we look forward to performing for our Sunrise members in the future. Some of the players in the group have a musical background but for many this is a first time experience.

The center continues to offer a variety of craft projects for the Random Acts of Art group that meets on Tuesday afternoons. With direction from a volunteer instructor, we offered a Paint Day in January, where each attendee duplicated a painting of a winter scene using their own individual perspectives. As the project ensued, the painters found themselves enjoying the process while snacking and sipping as you would during a Paint Night event. They learned new techniques in addition to some interesting facts about Vincent Van Gogh. On the last Tuesday of each month we have an accomplished knitting instructor who has volunteered to teach the group basic knitting skills to undertake a simple starter project such as a scarf, cowl or headband. An instructed class on how to make chandelier style earrings was offered during February and the group also had fun making Valentine favors for the February luncheon.

Our Breakfast Club members enjoyed two new destinations this winter. We ventured to Gonic to taste test Brickstones at the Mills and to the iconic Wilbur's Family Restaurant in Hampton.. We found both establishments to be welcoming and accommodating to our seniors. In addition to breakfast, we offered a Supper Club trip at the beginning of February, which was very well attended. We had 20 seniors dining together at the Country View Restaurant in Greenland where the staff and owners treated them to a memorable evening. Our dining clubs are very popular and we'll continue to offer more of these types of trips in the future.

Other recent trips included a Bingo day at Hampton Gaming Casino. A well-attended trip where lunch is served and the group plays high stakes Bingo for the afternoon. Our Lunch and Movie Day was a good choice for February at a local restaurant and theater. The group liked the true story of the *15:17 Train to Paris* along with their lunch at Popovers on the Square in Epping.

The Sunrise Breeze Newsletter was released in February with a new selection of day trips and special events being offered. The newsletter announced our Annual Red Sox Opening Day event on April 5th where we'll serve ballpark food and tune into the baseball game on the large, flat-screen TV. The center

will also host a Spring Fling on the evening of Friday, March 23rd. This special event is being funded by a donation from the Beech Street Seniors. This will be a festive social gathering which includes a buffet dinner and live music.

The Tuesday Talk series has been popular this season. In January we invited Scott Sauvé to the center to talk about his process of becoming an EMT and an inside view of what it's like to be a member of Newmarket's emergency crew. The group found it very interesting and had many questions and comments for Scott. February's talk was on the lighter side with a local button collector presenting her collection of unique and hard to find buttons with additional information on trade shows and collecting as a hobby.

We continue to build our new yoga program for seniors offering two classes for those with different needs and abilities. One class is specifically a chair class where yoga therapy is done in a seated or standing position with the support of a chair for those with limited mobility. The mat class is for our more active 55+ members that can do standard yoga poses & stretches on the floor mat. Our Bone Builders exercise class continues to bring new people in on a regular basis. This class is offered twice a week where we have up to 30 people in attendance.

Bingo at the center is still a favorite activity that consistently brings in players both Mondays and Thursdays. The Wii bowlers have continued to practice on Tuesday mornings through the winter to prepare for the Spring Tournament. We've had some quiet days at the center this winter due to illness and bad weather, but we look forward to putting winter behind us and getting outdoors to clean up and prepare our gardens for planting. We'll resume our morning walking club and the voices of the Sunrise Singers will be heard again with the addition of a few new members in the coming weeks.

RECREATION

		<u>FISCAL YEAR 2018</u>			
	Budget	MTD Transactions	YTD Transactions	Balance Year	% Spent
	203,351.00	17,750.04	134,348.02	69,002.98	66%

FISCAL YEAR 2017

	Budget	MTD Transactions	YTD Transactions	Balance Year	% Spent
	200,322.00	491.69	126,855.14	73,466.86	63%

RECREATION REVOLVING

		<u>FISCAL YEAR 2018</u>			
	Budget	MTD Transactions	YTD Transactions	Balance Year	% Spent
	279,115.00	11,224.67	200,245.23	78,869.77	72%

		<u>FISCAL YEAR 2016</u>			
	Budget	MTD Transactions	YTD Transactions	Balance Year	% Spent

243,433.00	8,686.02	159,869.82	83,563.18	66%
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TOWN OF NEWMARKET, NEW HAMPSHIRE
By the Newmarket Town Council

Resolution #2017/2018 - 35

Authorizing the Town Administrator enter into a Performance Contract agreement with Energy Efficient Investments for HVAC, Lighting and Building Envelope Improvements to the Community Center:

- WHEREAS:** it has been determined that our HVAC systems have exceeded their life expectancy and currently requires major repairs, our lighting systems are very inefficient, our building envelope needs sealing/insulation, and
- WHEREAS:** the Director of Facilities requested proposals for Performance Contracting Services from Energy Efficient Investments based on approved Resolution #2017/2018-25 for an energy audit after a major equipment failure, and
- WHEREAS:** the Community Center requires major infrastructure repairs, we have engaged with Energy Efficient Investments to conduct auditing of our facilities, detailed Performance Contracting proposals, and
- WHEREAS:** the Town Administrator recommends that the Town enters into a Performance Contract agreement with Energy Efficient Investments to provide for infrastructure improvements with energy saving returns helping to offset the cost impact for these systems, and

NOW, THEREFORE, BE IT RESOLVED BY THE NEWMARKET TOWN COUNCIL THAT:

The Town Council authorizes the Town Administrator to enter into a Performance Contract agreement with Energy Efficient Investments to make system improvements to the Community Center. The cost for these improvements is \$188,844.00 with funding from the Buildings and Improvements Capital Reserve Fund (Resolution #2017/2018-40) and the balance to be funded by a municipal lease (Resolution #2017/2018-41). Additional rebates will be applied towards the balance of the contract reducing the overall costs when they are authorized by the granting agencies. Additional rebates currently estimated at \$14,050.00.

First Reading: March 14, 2018

Second Reading: March 28, 2018

Approval:

Approved: _____
 , Chair Town Council

A True Copy Attest: _____
 Terri Littlefield, Town Clerk



TOWN HALL
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NEWMARKET, NH 03857

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FOUNDED DECEMBER 15, 1727
CHARTERED JANUARY 1, 1991

TOW NOF NEWMA RKE,NEW HAM PSIRE

STA FF REPOR T

DATE 10/10/18

TITLE: Community Center repairs/upgrades with Performance contracting
Resolution: 2017/2018-35, 40 & 41

PREPARED BY: Greg Marles, Director of Facilities

TOWN ADMINISTRATOR'S COMMENTS – RECOMMENDATION:

I recommend its approval and request to suspend the rules to act on it this evening.

BACKGROUND:

We had one(1) of the three (3) warm air furnaces suffer a cracked heater exchanger allowing products of combustion to enter the space. We have shut down and locked out the failed equipment for safety reasons and have been limping along with two units to condition the space. The two units cannot keep up with the demands and several areas of the facility remain cold. We have looked into a replacement heat exchanger for the failed unit which has been currently out of production for the past 10 years. In order to replace the exchanger we would have to have one custom made with a 4 to 6 week delivery period. This unit is 25 years old, with one other matching unit the same age, and the last unit being 27 years old. We are very concerned with the operating condition of the two remaining units given the overall condition and age. All three of these units have been out of production for at least 10 years and have exceeded their life expectancy. This also holds true for two of the three outside condensing units that provide cooling for the building. We are asked Energy Efficient Investments to conduct a full energy audit for the facility looking at ways to use energy efficient upgrades to help offset the costs of replacing the heating and cooling systems within the building. They have provided us with energy saving options to upgrade the lighting, HVAC, and building envelope.

DISCUSSION:

Our existing HVAC and lighting systems are out of date, in need of major repairs, and they have exceeded their useful life expectancy. Energy Efficient Investments has provided us with a Performance Contract to upgrade these systems and tighten the building envelope for a total cost of \$188,844.00. These repairs/upgrades would provide us not only with energy savings but provide us with an average life expectancy of 25 years. We would also like to request that this project be approved in a single session as we do have a major equipment failure in the facility which puts us at risk in freezing conditions.

FISCAL IMPACT:

We recommend \$25,000.00 in funds to be withdrawn from Buildings and Improvements Capital reserve fund to reduce the impact of the project to \$163,844.00 with an additional projected rebate amount of \$14,050.00 from different agencies or a balance of \$149,794.00. It would be our recommendation that we enter into a municipal lease with Municipal Leasing Consultant for a 10 year period at 3.98%APR creating an annual lease payment of \$18,182.04 with \$3,940.00 of energy savings to be used to reduce the annual payment to \$14,242.04. Energy Efficient Investments will guarantee the energy saving in fuel and electricity operating cost reduction. This allows for these saving to help offset the overall cost impacts of the project. The payment for the \$18,182.04 would come from heating energy reductions, electricity reductions and the remaining from Building and Grounds Operations Budget.

RECOMMENDATION:

We recommend that we engage with Energy Efficient Investments to do the necessary repairs/upgrades to our systems and building envelope, drawn \$25,000.00 from our Buildings and Improvements Capital Reserve fund, and enter into a municipal lease with Municipal Leasing Consultants of Grand Isle, Vermont.

DOCUMENTS ATTACHED:

EEI Performance agreement and scope of work
Amortization Schedule
Buildings and Improvements Capital Fund balance report
Municipal Leasing Consultants report

**ENE Systems, Inc./Energy Efficient Investments, Inc.
Final Investment Grade Audit**

FOR:

**Town of Newmarket NH
Recreation Center**

Prepared by:

Michael Davey, CEM

Date: February 28, 2018



Executive Summary

EEI is located in Merrimack, NH, and has a proven track record of designing and implementing energy improvements to mechanical systems, building controls systems, insulation, and renewable systems. EEI is also an approved energy management contractor with Better Buildings, Pay for Performance, Eversource, Liberty Utilities, and Unitil in New Hampshire.

EEI has developed a plan which could reduce annual energy expenditures by more than \$3,940.00

EEI in its role as Energy Service Company (ESCO) has agreed to develop an energy project targeting energy savings at the locations identified below:

Building	Location
Newmarket Recreation Center	1 Terrace Dr. Newmarket, NH

The development of every energy project starts with the initial energy assessment which includes a site visit and the collection of utility and operational costs for each location. The next step entails defining measures, budgetary costs, and estimated savings values by measure for each building.

On the following page, the Energy Conservation Measures Matrix shows the upgrades for the Town of Newmarket Recreation Center. Approval of this Final Investment Grade Audit will lead to an **Energy Performance Contract (EPC)** which will clearly define the responsibilities of each party and will include a **Measurement and Verification (M&V)** procedure that will be used to measure the energy performance of the new systems and equipment.



Newmarket Recreation Center**Comprehensive Option**

	Description	Cost	Savings	Rebate
ECM 1	LED Lighting with Smart Controls	\$29,500	\$2,100	\$7,350
ECM 2	New Condensing Furnaces w/ DX cooling	\$113,344	\$750	\$2,500
ECM3	Attic Insulation	\$15,000	\$890	\$3,000
ECM4	Carpentry & Mis Project cost	\$5,000		
ECM5	DDC Controls	\$26,000	\$200	\$1,200
	Total Newmarket Community Center	\$188,844	\$3,940	\$14,050

1. Utility Data Analysis

In order to understand the energy use of each building we analyzed the energy consumption data. We used historical oil delivery data and electrical bills. To understand how the building behaves during the heating and cooling seasons we analyzed the consumption as it is related to heating (HDD) and cooling degree days (CDD). This gives us a baseline to understand how the building may react to changes that we make to the heating system, cooling system, and building envelope of the building.

Building Summary Information

Project Name: Newmarket
Recreation Center

Annual Utility Data

Total Use 2017

Gas (gal)	2,593
Elec (KWH)	78,360

Contract Utility Rates

Gas (LP)	LP Rate	\$1.39
Electricity	Electric Rate	\$0.14

1. Economic Analysis

Making good economic decisions requires analysis of available information and understanding the monetary value of time. A Discounted Life Cycle Cost Analysis (DLCCA) is very useful for this type of analysis when multiple alternatives exist. This is the Federal Energy Management Program (FEMP) approved method of analysis and is used to aid in decisions that are based on the most favorable economic outcome. The School District can see the estimated time it will take for this energy project to payback shown on the ECM Matrix on page 3.

The key assumptions EEI used in our Economic Analysis include the baseline fuel usage and KWH use in which savings calculations were based on the fiscal year 2016 totals. Building interior lighting fixtures were assumed to run 1,700 hours per year, this is based on observation and interviews with staff. Exterior fixtures were assumed to run 4,380 hours per year.

2. Energy Conservation Measures

In this section of the document we will define the Energy Conservation Measures we have evaluated for this project. Then we will define the measures on a building by building basis. Careful consideration was given to each measure and its interaction with the overall building performance.

General ECM Descriptions

Newmarket Recreation Center

COMPREHENSIVE OPTION

ECM 1 – LED Lighting with Smart Controls

The building currently utilizes a combination of T8 and T12 fluorescent lighting, compact fluorescent and Metal Halide lighting. EEI proposes replacing the existing fixtures with new LED lighting. EEI performed a detailed survey of the interior and exterior spaces in order to identify opportunities in which we can improve lighting quality, reduce maintenance costs, and save energy.

The existing lighting demand (kW) per fixture, hours of operation, fixture quantities, and recommended retrofits are based on the physical inspection and site visits conducted by EEI. As a result of the survey and analysis, EEI has developed a high efficiency lighting upgrade project that will provide new LED fixtures with smart controls, resulting in guaranteed annual energy savings and a reduction in electrical demand.

LED type lighting provides significant illumination, has longer life expectancy, increased savings in electric consumption, and provides dimming capabilities. Also, by standardizing all fixtures will reduce future maintenance requirements.

LED fixtures have an estimated life of more than 20 years. There is significant maintenance savings when LED fixtures are used due to longer lifespan.

- Install (70) Led 2x4 Retrofit fixtures with automatic dimming and occupancy-based operation
- Install (24) 6" LED recessed fixtures
- Install (7) 4' LED Strip fixtures with automatic dimming and occupancy-based operation
- Install (12) LED 2x4 fixtures with automatic dimming and occupancy-based operation
- Install (6) LED Exit signs
- Install (10) LED tubes at the cove lighting
- Install (13) exterior LED wallpacks and floodlights
- Install (2) exterior LED recessed canopy lights

ECM 2 – New Condensing Furnaces with DX Cooling

Replace existing gas fired Carrier Condensing 96.5% efficient gas furnaces to replace existing standard efficiency 80% efficient gas units. The existing primary unit has a cracked section and needs to be replaced. Scope of work includes power wiring, roof penetration. The furnaces shall all be Model 59SPA. EEI will replace 2 existing condensing units and 1 condensing unit is in good shape and will be re-used.

Proposed Units



Existing Unit



ECM 3 – Attic Insulation

EEI completed a detailed building audit and verified suspected air leakage locations and found opportunity to improve building performance and save energy. Air leakage is caused by pressure differences subjective to variations in wind velocity and HVAC systems. In order to control heating and cooling loads, and allow the mechanical systems to operate effectively, pressure differences from the outdoor environment to the indoor building spaces must be controlled. The best way to do this is by tightening the building envelope by insulating and air sealing. This will extend the life cycle of the building by protecting it from the elements and minimizing moisture carried by the air to penetrate the building. Also, insulation and air sealing increases thermal performance of the building and the comfort, health and safety of the building occupants.

The existing attic insulation consists of R-19 Batt Insulation and does not meet current code requirements. EEI proposes air sealing attic open space and installing an R-50 cellulose. This will improve building comfort and

ECM 4 – Carpentry and Misc. Project Costs

This scope of work includes necessary ceiling and framing adjustments to remove existing gas equipment from attic and allow for new high efficiency condensing to be installed in the attic.

ECM 5 – DDC Controls

The existing building controls systems are antiquated which can lead to both overheating and under ventilation of spaces. The HVAC units have primarily standalone heating systems without outdoor temperature re-set schedules. **Existing 3 Tstat per room set up to right**

Direct Digital Controls are designed to provide overall building scheduling and setback capability, and can be accessed or modified by using any computer. It is very important to have the ability to trend the space temperatures and run times of equipment. A more advanced control strategy will limit the amount of time the heating or air conditioning can run, therefore saving fuel. For example, a morning warm up optimization would allow the building heating systems to be brought online via an automated process taking into account outdoor air temperatures.



EEI has included a budget to install Digital controls which will control new furnaces and building exhaust fans. Remote monitoring, graphics and alarming capabilities are included in this budget.



FEATURES & SPECIFICATIONS

INTENDED USE — The 6" Wafer-Thin LED recessed downlight with remote driver box combines high quality light output and efficiency while eliminating the pot light housing for competitive affordability. This innovative wafer-slim Type IC design allows easy installation for new construction or remodel from below the ceiling without the requirement of a pot light housing. The LED module maintains at least 70% light output for 36,000 hours. These LED Wafer downlights are intended for closets, attics, hallways, bathrooms, kitchens, basements, soffits, entryways, porches, garages, stairwells, corridors, nursing/retirement homes, condos, elevators, apartments, and any other small areas.

CONSTRUCTION — Ideal for shallow ceiling plenum since a pot light housing is NOT required. IC rated driver and fixture—approved for direct contact with insulation. Aluminum die cast outer frame. Durable, powder coat paint to prevent rust. Round fixture with integral edge-lit LED's. Steel spring clip for easy installation. Plenum rated cable connector to connect from module to remote driver box. Isolated driver integrated inside steel remote box with four 7/8" knockouts with slots for pryout. Not suitable for pulling wires.

PATENT PENDING.

INSTALLATION — Ideal for shallow ceiling plenum; no housing required. Steel spring clip for easy installation. 6" cut out template is provided to ensure a correct sized hole is cut into ceiling for proper installation of the trim. Size of hole should not exceed 6 1/4 inches for this product. Suitable for installation in t-grid and drop ceiling applications.

OPTICS — Wafer-Thin downlight edge-lit LED technology uses light guided plate to distribute light. Polycarbonate lens provides even illumination throughout the space. Utilized 3000K and 4000K color temperature LEDs.

ELECTRICAL — Connect directly to 120V power supply via provided UL recognized driver. High efficient driver with power factor > 0.9. Ambient operating temperature: -40°F (-40°C) to +104°F (+40°C). Dimming down to 10% (See page 2 for recommended dimmers). Standard input wattage is 13W, 79 lumens per watt.

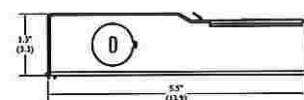
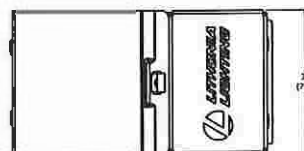
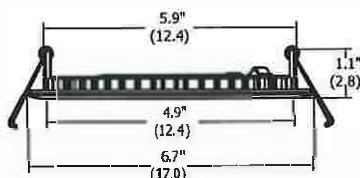
LISTINGS — CSA certified to US and Canadian safety standards. ENERGY STAR® certified product. Wet location. Air Tight certified in accordance with ASTM E283-2004.

WARRANTY — 5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

Specifications

Aperture:	4.9 (12.4)
Ceiling opening:	6 (15.2)
Overlap trim:	6.7 (17)
Height:	1.1 (2.8)



All dimensions are inches (centimeters) unless otherwise indicated.

Catalog Number
Notes
Type

Wafer LED Recessed Downlight

WF6

6" LED Module

IC/Non-IC

New Construction/Remodel



Matte black



Brushed nickel



Oil-rubbed bronze

ORDERING INFORMATION

For shortest lead times, configure product using standard options (shown in bold).

Example: WF6 LED 30K MW

Series	Lamp	CCT/CRI/W/Lumens ¹	Finish
WF6 6" wafer-thin LED downlight	LED LED	30K 3000K/80CRI/13W/1020L 40K 4000K/80CRI/13.6W/1200L	MW Matte white MB Matte black BN Brushed nickel ORB Oil-rubbed bronze
	L1 LED low lumen LED	27K 2700K/80CRI/12.7W/780L 30K 3000K/80CRI/12.6W/865L 40K 4000K/80CRI/12.9W/944L	

Accessories: Order as separate catalog number.

WF6PAN R12	6" new construction pan, retail pack of 12
WFJB R4	Remodel joist bar, retail pack of 4
WFEXC6 U	6' FT4 cable
WFEXC10 U	10' FT4 cable
WFEXC20 U	20' FT4 cable



WF6_Pan



Joist



Extension Cable

Notes

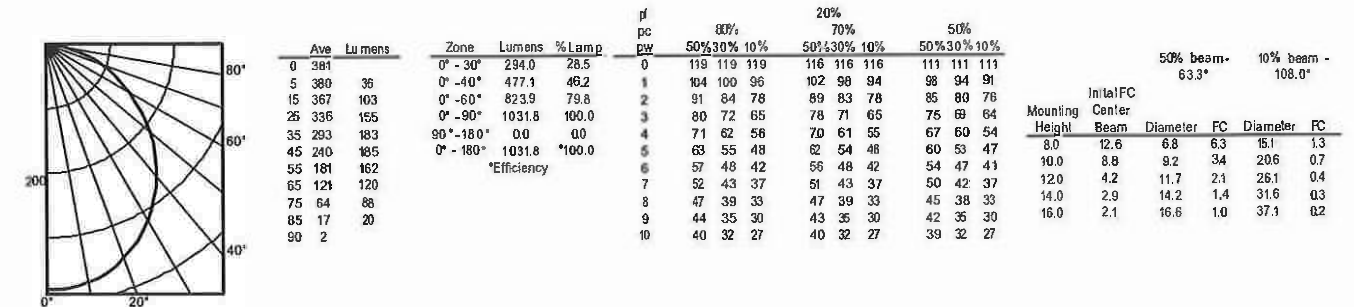
1 Totalsystem delivered lumens.

WF6 6" LED Wafer Module

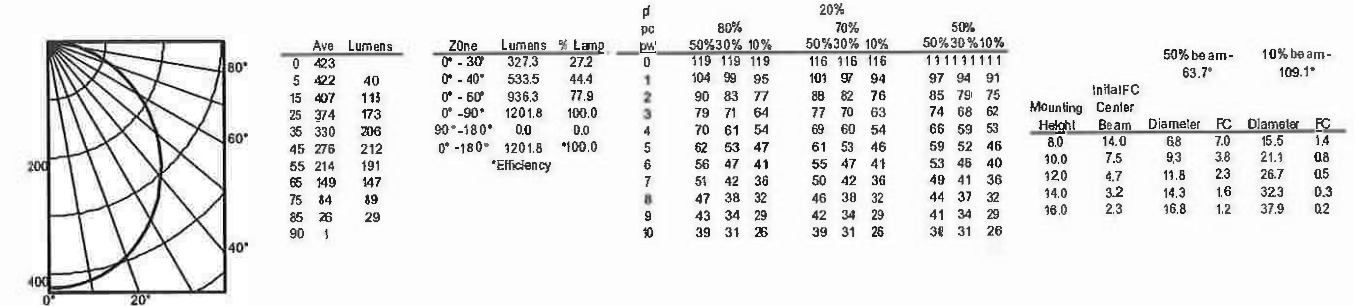
PHOTOMETRICS

Distribution Curve	Distribution Data	Output Data	Coefficient of Utilization	Illuminance Data at 30" Above Floor for a Single Luminaire
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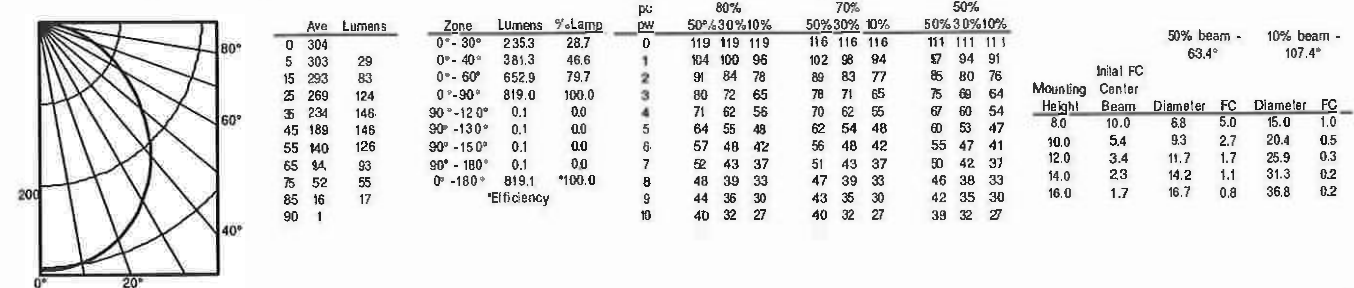
WF6 LED 30K, 3000 K LEDs, input watts: 13, delivered lumens: 1020, LM/W=78.5, test no. ISF 30024



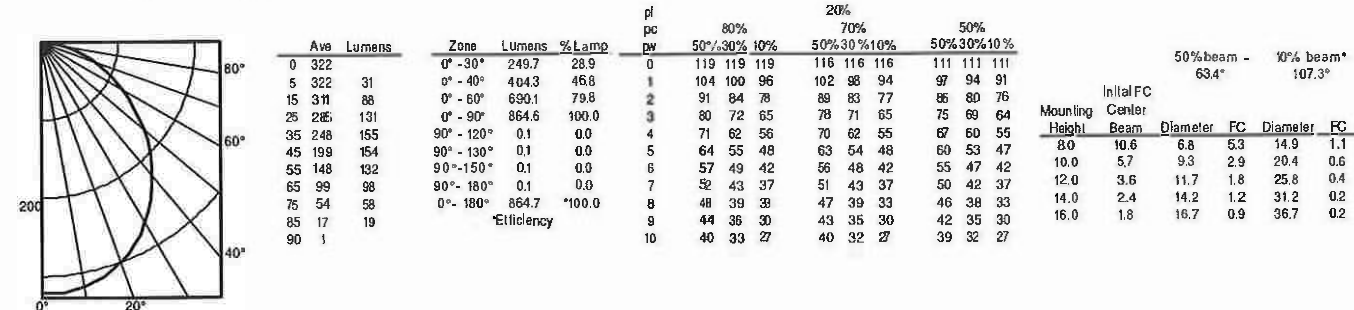
WF6 LED 40K, 4000 K LEDs, input watts: 13.6, delivered lumens: 1200, LM/W=88.2, test no. ISF 30376



WF6 LL LED 27K, 2700 K LEDs, input watts: 12.7, delivered lumens: 819, LM/W=64.4, test no. ISF 32780P1

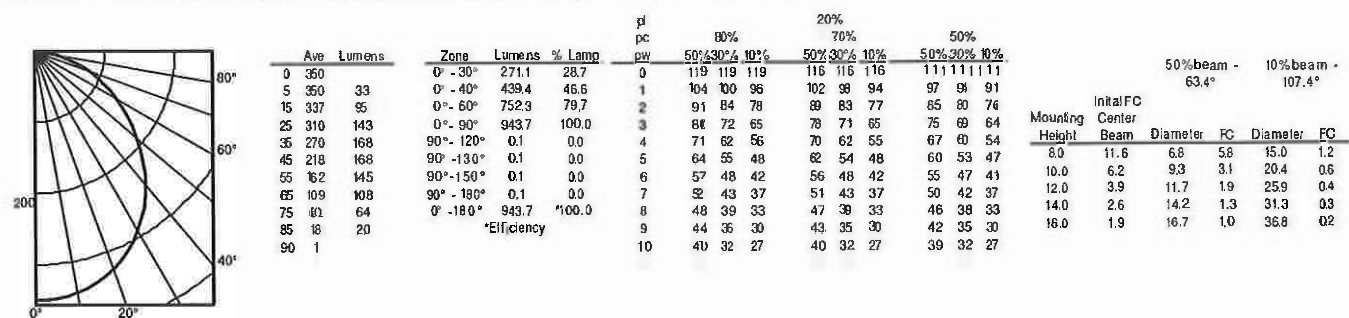


WF6 LL LED 30K, 3000 K LEDs, input watts: 12.6, delivered lumens: 865, LM/W=68.7, test no. ISF 32781



WF6 6" LED Wafer Module

WF6 LL LED 40K, 4000 K LEDs, input watts: 12.9, delivered lumens: 944, LM/W=73.2, test no. ISF 32780



ENERGY DATA & DIMMING CAPABILITY

6" ENERGY DATA		
Color Temperature	3000K	4000K
Lumens	1020	1200
CRI	80	80
Lumens/Watt	78.5	88.2
Min. starting temperature	-40°C (-40°F)	-40°C (-40°F)
EMI/RFI	FCC Title 47 CFR, Part 15, Class B	FCC Title 47 CFR, Part 15, Class B
Sound rating	Class A Standards	Class A Standards
Input voltage	120V	120V
Total Harmonic Distortion	17.9%	17.9%
Min. power factor	0.99	0.99
Input frequency	50/60Hz	50/60Hz
Rated wattage	13W	13.6W
Input power	13W	13.6W
Input current	0.11A	0.11A

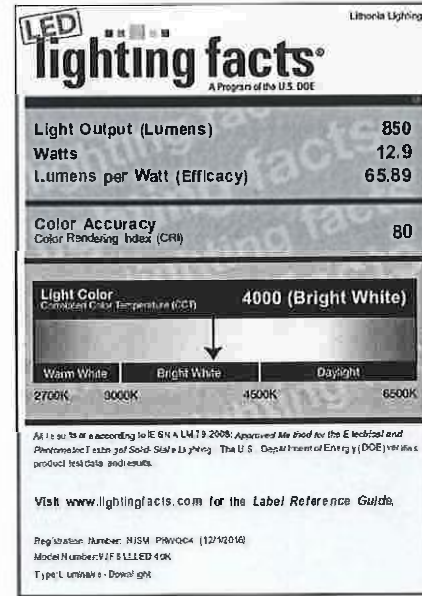
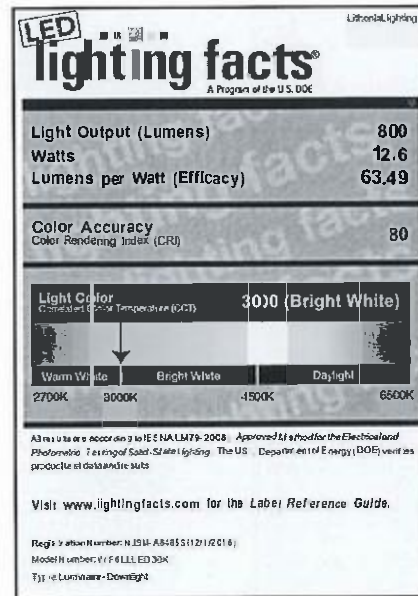
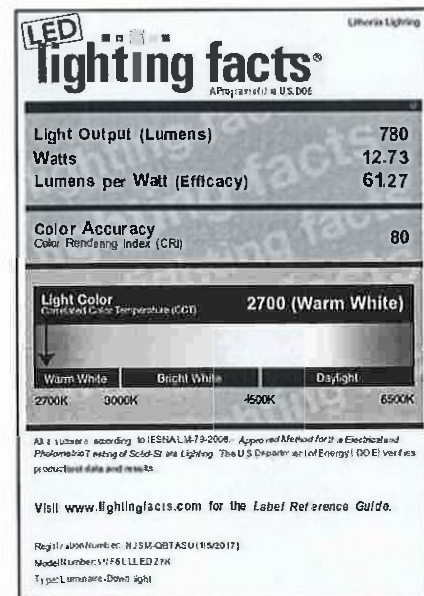
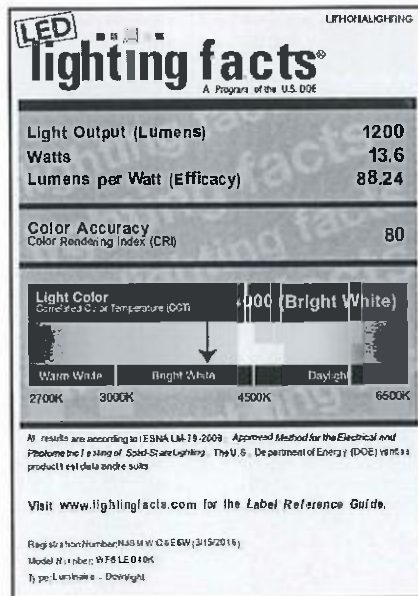
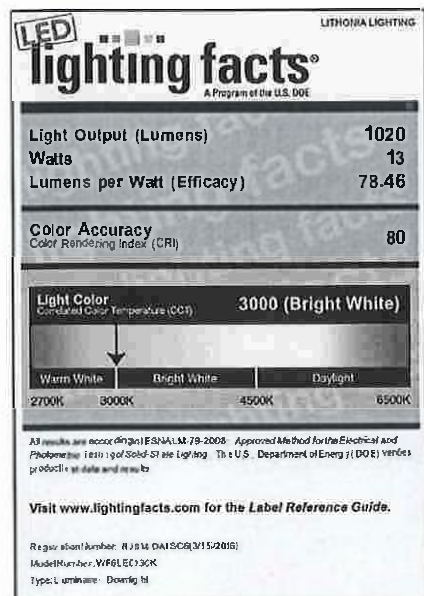
6" LOW LUMEN ENERGY DATA			
Color Temperature	2700K	3000K	4000K
Lumens	780	865	944
CRI	80	80	80
Lumens/Watt	61.3	68.7	73.2
Min. starting temperature	-40°C (-40°F)	-40°C (-40°F)	-40°C (-40°F)
EMI/RFI	FCC Title 47 CFR, Part 15, Class B	FCC Title 47 CFR, Part 15, Class B	FCC Title 47 CFR, Part 15, Class B
Sound rating	Class A Standards	Class A Standards	Class A Standards
Input voltage	120V	120V	120V
Total Harmonic Distortion	12%	15.0%	11.6%
Min. power factor	0.99	0.99	0.99
Input frequency	50/60Hz	50/60Hz	50/60 Hz
Rated wattage	12.7W	12.6W	12.9W
Input power	12.7W	12.6W	12.9W
Input current	0.11A	0.11A	0.11A

COMPATIBLE DIMMERS				
Insteon	Leviton	Lutron	Sensorswitch	Synergy/Leviton
2477D	6633-PA	CTCL-153P-WH	nSP5 PCD2W	ISD 600 I120/IP106
	IPL06-LED/INC mode	DV-603P-LA	nSP5 PCD ELV 120	ISD 400 ELV 120/IP04
	6615-P	CT-603PR-WH		
		DVELV-300P		
		NTEL V-300P		
		HLV600		
		300P-SELV		
		DV-600P		
		AVCL-153P-WH		
		Caseta PD-6WCL*		

*Requires Lutron Smart Bridge L-BDG2-WH (sold separately)

WF6 6" LED Wafer Module

LIGHTING FACTS



codes and standards

- UL listed to Standard 924
- NFPA 70 (National Electric Code)
- NFPA 101 (Life Safety Code)
- California Energy Commission
- UL listed for damp location

construction

- White housing only.
- Low profile, snap-together quick mount design.
- Flame rated, UV stable thermoplastic housing.

installation

- Universal wall/ceiling/end mounting.
- Canopy not required for flat wall mount. (electronics contained inside housing).
- Pop-out chevron directional indicators are easily removed when required.
- Exit sign mounts to a standard 4" square outlet box. (canopy provided)
- All exits signs are provided with an extra stencil face plate for double face sign applications.

electronics

- 120/277VAC selectable input.
- VE Units: AC Only
Input Power: 0.026A (120VAC)
Input Power: 0.012A (277VAC)
- VE Units: Emergency
Input Power: 0.033A (120VAC)
Input Power: 0.017A (277VAC)
- Surge protection, low voltage disconnect, AC lockout installation, brown out protection, and constant current charger.

battery

- VE Exits contain 6V maintenance free nickel cadmium battery with a service life of 8 to 10 years and a operating temperature range of 10°C to 40°C (50°F to 104°F).
- Provides 90 minutes of emergency illumination.

lamps

- Bright red or green energy efficient LED lamps. Uniform 6" letter illumination (3/4" stroke).

warranty

- Three year warranty on unit.

CE-15050

Commercial Exit Signs

VE Series

Value+ Economy Grade

Thermoplastic



Specifier's Reference

Project

Type

Model No.

Comments

Green Product Choice: VERWEM

Exit Signs Catalog Number	Letter Color	Housing Color	Operation
VERW	Red	White	AC only
VEGW	Green	White	AC only
VERWEM	Red	White	Emergency (nicad battery)
VEGWEM	Green	White	Emergency (nicad battery)

Accessories

- **VEPMC** – Pendant mount canopy, white, (requires stem assembly).
 - **PVS2** – Polycarbonate shield
 - **WG4** – Wire guard
 - **CXPA12W** – Pendant assembly, Rigid canopy, 12" white stem (requires VEPMC).
 - **CXPA512W** – Pendant assembly, Swivel white canopy, 12" white stem (requires VEPMC).
- Stem lengths available: 18", 24", 30", 36", 48", and 60"

Note:

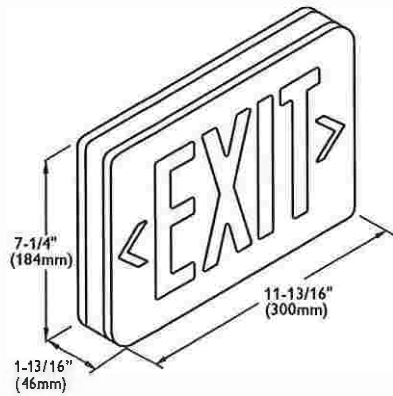
All exit signs are universal (single face with an extra stencil face plate)
Canopy provided on all exits.



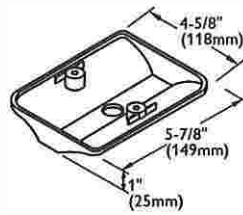
**PHILIPS
CHLORIDE**

dimensions

VE



Canopy



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philips.com/luminaires



Philips Lighting North America Corporation
200 Franklin Square Drive, Somerset, NJ 08873
Tel. 855-486-2216

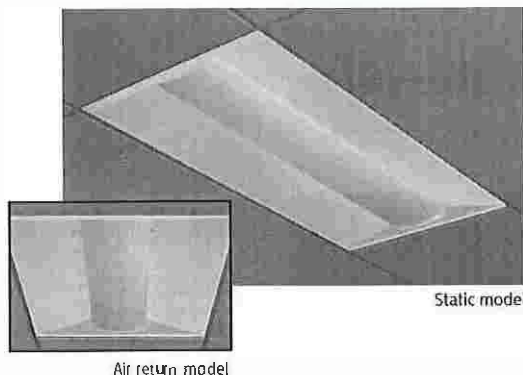
Philips Lighting Canada Ltd
281 Hillmount Rd, Markham, ON, Canada L6C 2S3
Tel. 800-668-9008

PHILIPS Day-Brite CFI

Recessed

EvoGrid
LED 2x4

Up to 7400 lumens



Project: _____
Location: _____
Cat.No: _____
Type: _____
Lamps: _____ Qty: _____
Notes: _____

The Philips Day-Brite/ Philips CFI EvoGrid LED recessed utilizes highly reliable and efficient Philips LED platform boards and dimmable driver enabling market leading performance in its category. Its soft opal diffuser with large luminous area minimizes apparent brightness compared to other basket luminaires and provides general lighting perfect for a wide variety of applications.

Ordering guide

Example: 2EVG38L840-4-D-UNV-DIM

Width	Family	Ceiling Type	Air Function	Lumens	Color	Length	Center Diffuser	Voltage	Driver	Options
2	EV	G				4				
2' 2"	EV EvoGrid	G Grid	blank Static H Air Return	Standard efficacy 38L 3800 nominal delivered lumens 43L 4300 nominal delivered lumens 48L 4800 nominal delivered lumens 54L 5400 nominal delivered lumens 74L 7400 nominal delivered lumens High efficacy 38LH 3800 nominal delivered lumens 43LH 4300 nominal delivered lumens 48LH 4800 nominal delivered lumens 54LH 5400 nominal delivered lumens 74LH 7400 nominal delivered lumens	830 ¹ 80 CRI, 3000K 835 80 CRI, 3500K 840 80 CRI, 4000K 850 ¹ 80 CRI, 5000K	4' 4"	D Diffuse (opal) DS Diffuse smooth (opal) R Diffuse round ribbed (opal) RS Diffuse round smooth (opal)	UNV Universal Voltage, 120-277 volt 120 ² 120V 277 ² 277V 347 347V	DIM ³ 0-10V dimming Step SDIM ⁴ 40% input power MarkX phase dimming XDIM ² L3D ⁵ Lutron Hi-lume A 1% dimming LDE Lutron LOE5, 5% dimming DALI DALI	FI 3/8" flex, 3 wire 18 gauge 6' F2 3/8" flex, 4 wire 18 gauge 6' F1/D 3/8" twin flex, 3 wire 18 gauge 6' for dimmable luminaires F2/5W 3/8" single flex, 5 wire 18 gauge 6' for dimmable luminaires F2/6W 3/8" single flex, 6 wire 18 gauge 6' for dimmable and emergency luminaires GLR Fusing fast blow EM LED Integral emergency battery pack, 1100lm no min d (ballast enclosure on top of luminaire) SWZG2 ^{6,2} Integral sensor, daylighting and occupancy, advanced grouping with dwell time and zoning SWZDT ⁴ Integral sensor, daylighting and occupancy, advanced grouping with dwell time DAYOCC ⁵ Integral sensor, daylighting and occupancy, basic grouping CHIC Chicago Plenum rated CRM ⁸ Continuous row mount

Footnotes

- 3000K and 5000K color temperatures available only on high efficacy configurations
- XDIM requires 120V or 277V specification.
- Integral SWZDT and DAYOCC options dimmable to 5% via wireless all switch. See page 2
- Consult factory for SDIM on 74L and 74LH packages.
- Specify with 38L or 43L lumen packages only. Consult factory for higher lumen packages.
- Specify only with -DIM driver option

- Must order SWZ-REMOTE SpaceWise handheld remote with each system order.
- CRM includes side cover with top access plate and additional end cover. 7/8" gap between fixtures.
- Non-controls and SWZG2 configurations are 0-10v dimmable to 1% for Standard configurations. Base configurations are 0-10v dimmable to 5%

SpaceWise accessories (order separately)

- LRM1743 – External sensor to increase occupancy coverage area of SpaceWise luminaire groups
- SWZ-REMOTE – SpaceWise handheld remote for grouping and configuration (at least one remote required for any SpaceWise Installation)
- UJD8451/10 – Wireless Dimmer Switch Selector
- UJD8461/10 – Wireless Scene Selector

Other accessories (order separately)

- FMA24 – 2'x4' "F" mounting frame for NEMA "F" mounting
- EVD4L – EvoGrid 2'x4' rectangular ribbed replacement lens
- EVD54L – EvoGrid 2'x4' rectangular smooth replacement lens
- EVR4L – EvoGrid 2'x4' round ribbed replacement lens
- EVR54L – EvoGrid 2'x4' round smooth replacement lens
- FSK24 – 2'x4' surface mount field installation kit, order with -TAP (top access plate) option (SWZG2 option not available)



2EV EvoGrid LED recessed 2x4

Up to 7400 lumens

Application

- A highly efficient, visually comfortable, architecturally styled recessed LED luminaire designed with a minimalist strategy to achieve sustainable objectives.
- Low profile configuration is only 2-3/4" deep, requiring minimal plenum space.
- Soft opal diffuser with large luminous area minimizes apparent brightness and provides high visual comfort perfect for a wide variety of general lighting applications like offices, schools, retail, or healthcare.
- Multiple lumen packages over a wide range to provide significant application flexibility over light levels and/or luminaire spacing.
- Directs a controlled amount of light to the higher angles in the room to balance the brightness of the surfaces and eliminate "cave effect" while creating the impression of a larger, brighter space without glare.
- Excellent color rendering with a CRI of 80.
- LEDs are an excellent source for use with controls since dimming or frequent switching does not degrade the performance or life of the source. Integral or external sensors are available for use.
- Designed for use with standard Grid (NEMA "G") or Narrow Grid (NEMA "NFG") ceiling T-bars. Drywall or plaster requirements can be accommodated by using an FMA24 "F" mounting frame (sold separately.)
- Continuous row mount option (CRM) includes wireway covers on each end and on one side of housing.

Construction/Finish

- Uncomplicated design is 2-3/4" in depth and only requires a few parts outside of the electrical system and hardware, creating several benefits:
 - Less material required
 - Less packaging required
 - Reduced weight
 - Less energy required for construction and assembly
 - More luminaires can be shipped per truck to reduce fuel use and emissions
- Luminaire finish is matte white polyester for a high quality, durable finish.
- T-bar grid clips are integral to body.

Electrical

- Integral sensor options for occupancy sensing and/or daylight harvesting are available for additional energy savings with no reduction of life or increase in installation labor.
- Total luminaire efficacy exceeding 139 LPW (lumens per Watt) with high efficiency packages.
- LED board is easily accessible from below without tools. Single LED board is replaceable if needed via plug-in connectors to ensure long service life.
- LED driver is accessible from above.
- Emergency driver is accessible from above. To estimate lumen output in emergency mode, multiply emergency pack wattage by efficacy, then by 1.10. Typical lumen output is 1300lm for EMLED.
- Step dim 100/40% and additional dimming options available.
- Five year limited luminaire warranty includes LED boards and driver. Visit www.philips.com/warranties for complete warranty information.
- TM-21 predicted L70 lumen maintenance up to 80,000 hours for high efficacy and 50,000 hours for standard efficacy configurations.
- cETLus listed to UL and CSA standards, suitable for damp locations.
- EvoGrid luminaires are DesignLights Consortium® qualified. Please see the DLC QPL list for exact catalog numbers (<http://www.designlights.org/QPL>)

Enclosure

- Opal diffuser provides soft, comfortable lighting while maintaining high efficiency.
- Diffuser requires no frames or fasteners and can be easily removed from below without tools if needed.

General Notes

- All options factory installed.
- All accessories are field installed.
- Many luminaire components, such as reflectors, refractors, lenses, sockets, lampholders, and LEDs are made from various types of plastics which can be adversely affected by airborne contaminants. If sulfur based chemicals, petroleum based products, cleaning solutions, or other contaminants are expected in the intended area of use, consult factory for compatibility.

SpaceWise (SWZG2)

- Commissioning via SWZ-REMOTE handheld remote, must order a minimum of one per installation
- Integral sensing options (DAYOCC, SWZG2, SWZDT) may not be combined
- For more information on the sensor, please refer to www.lightingproducts.philips.com/documents/webdb2/DayBrite/pdf/SWZG2_sensor.pdf
- Visit Philips.com/spacewise for more information about SpaceWise Technology (SWZG2)

DAYOCC & SpaceWise DT (SWZDT)

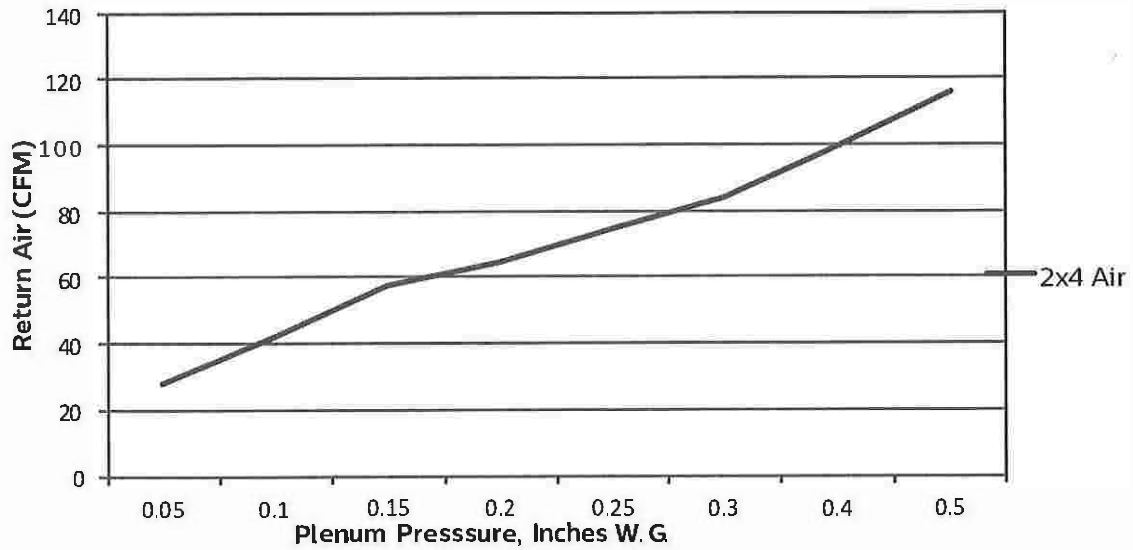
- Commissioning via compatible Android phone and Philips Field App
- Dimming via compatible wireless wall switch only (see below)
- Register for the commissioning app at <http://registration.componentcloud.philips.com/appregistration/>
- Integral sensing options (DAYOCC, SWZG2, SWZDT) may not be combined
- For more information including recommended switches, refer to the following –
 - DAYOCC – www.lightingproducts.philips.com/documents/webdb2/DayBrite/pdf/DAYOCC_sensor.pdf
 - SWZDT – www.lightingproducts.philips.com/documents/webdb2/DayBrite/pdf/SWZDT_sensor.pdf

Energy data

Luminaire	Catalog Number	Input Power	Efficacy
2x4	2EVG38L840-4-D	37	110
	2EVG43L840-4-D	41	108
	2EVG48L840-4-D	48	105
	2EVG54L840-4-D	55	103
	2EVG74L840-4-D	83	93
	2EVG38L840-4-R	31	124
	2EVG43L840-4-R	35	124
	2EVG48L840-4-R	40	122
	2EVG54L840-4-R	46	120
	2EVG74L840-4-R	67	111
2x4 High Efficacy	2EVG38LH840-4-D	27	139
	2EVG43LH840-4-D	32	139
	2EVG48LH840-4-D	36	138
	2EVG54LH840-4-D	39	137
	2EVG74LH840-4-D	56	134
	2EVG38LH840-4-R	26	142
	2EVG43LH840-4-R	30	142
	2EVG48LH840-4-R	34	143
	2EVG54LH840-4-R	39	143
	2EVG74LH840-4-R	53	140

2EV EvoGrid LED recessed 2x4

Up to 7400 lumens

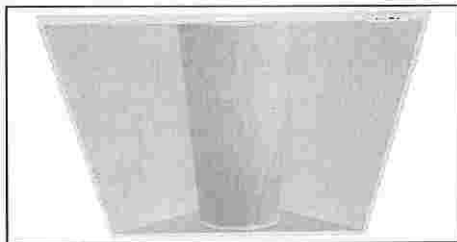
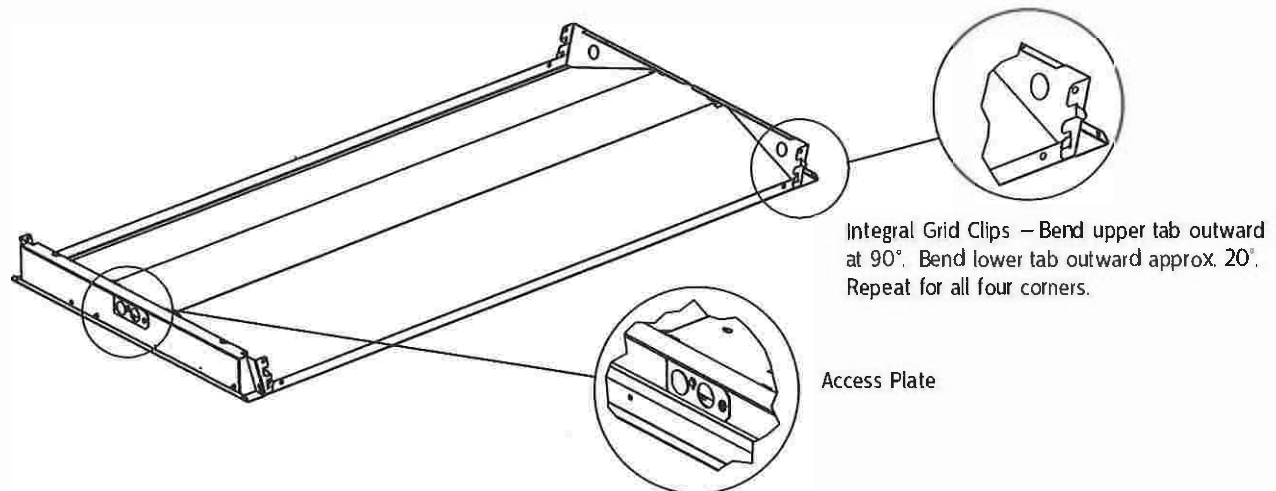
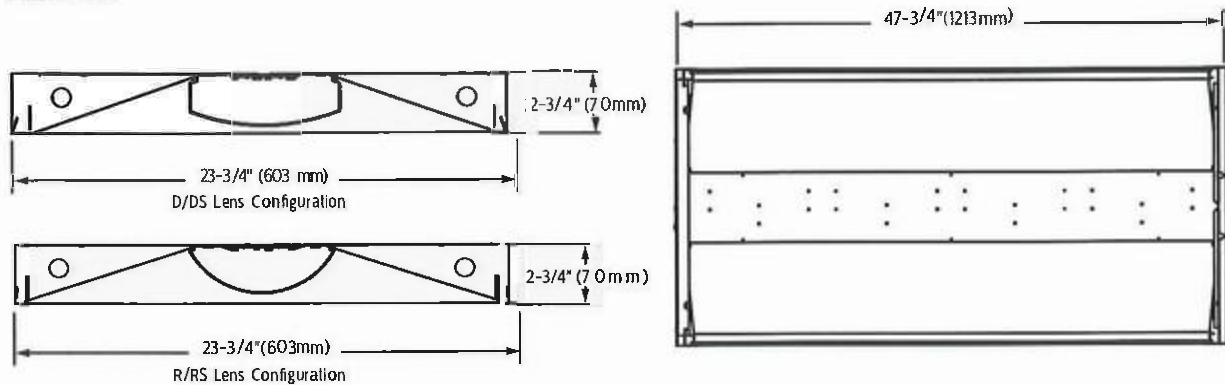


Pressure	0.05	0.1	0.15	0.2	0.25	0.3	0.4	0.5
CFM	28	42	58	65	75	84	100	116
Noise	<15	24	34	37	41	45	47	49

2EV EvoGrid LED recessed 2x4

Up to 7400 lumens

Dimensions



SpaceWise (SWZG2) automated wireless technology is available for integrated occupancy and daylight harvesting. Individual options for dimming, occupancy detection, and daylight harvesting are also available if SpaceWise option is not selected.

SpaceWise DT (SWZDT) sensor is located in the center on one end flange similar to SWZG2 shown.

2EV EvoGrid LED recessed 2x4

Up to 7400 lumens

Photometry

2x4 EvoGrid recessed LED, high efficacy, 4800 nominal delivered lumens

LER -138

Catalog No. 2EVG48LH840-4-D-UNV-DIM Test No. 34935 S/MH 12 Lamp Type LED Lumens 4897 Input Watts 36 Comparative yearly lighting energy cost per 1000 lumens - \$174 based on 3000 hrs. and \$0.08 pwr KWH. The photometric results were obtained in the Philips Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology. Photometric values based on test performed in compliance with LM-79.	Candlepower					Light Distribution			Average Luminance			
	Angle	End	45	Cross	Back-45	Degrees	Lumens	% Luminaire	Zone	End	45°	Cross
	0	1778	1778	1778	1778	0-30	1358	277	45	7632	8012	8362
	5	1749	1771	1782	1771	0-40	2189	447	55	6828	7614	8295
	15	1669	1701	1714	1701	0-60	3775	773	65	6090	7566	8686
	25	1509	1545	1566	1545	0-90	4899	1000	75	5319	7922	9360
	35	1283	1333	1364	1333	0-180	4899	1000	85	4450	6795	7112
	45	1022	1087	1134	1087							
	55	751	838	913	838							
	65	494	613	704	613							
	75	264	393	465	393							
	85	74	114	119	114							

2x4 EvoGrid recessed LED, 4800 nominal delivered lumens

LER -105

Catalog No. 2EVG48L840-4-D-UNV-DIM Test No. 34090 S/MH 12 Lamp Type LED Lumens 5015 Input Watts 48 Comparative yearly lighting energy cost per 1000 lumens - \$129 based on 3000 hrs. and \$0.08 pwr KWH. The photometric results were obtained in the Philips Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology. Photometric values based on test performed in compliance with LM-79.	Candlepower					Light Distribution			Average Luminance			
	Angle	End	45	Cross	Back-45	Degrees	Lumens	% Luminaire	Zone	End	45°	Cross
	0	1830	1830	1830	1777	0-30	1387	276	45	7725	8080	8349
	5	1813	1820	1825	1770	0-40	2228	444	55	7009	7732	8457
	15	1725	1739	1746	1700	0-60	3836	764	65	6290	7919	9045
	25	1554	1571	1582	1541	0-90	5019	100.0	75	5613	8389	9769
	35	1317	1347	1365	1330	0-180	5020	100.0	85	4870	7342	7903
	45	1048	1096	1132	1086							
	55	771	851	930	838							
	65	510	642	738	614							
	75	279	417	485	394							
	85	81	123	132	111							

2EV EvoGrid LED recessed 2x4

Up to 7400 lumens

2x4 EvoGrid recessed LED, high efficacy, 4800 nominal delivered lumens

LER -144

Catalog No. 2EVG48LH840-4-R-UNV-DIM
Test No. 38774
S/MH 1.3
Lamp Type LED
Lumens 4927
Input Watts 34

Comparative yearly lighting energy cost per 1000 lumens - \$167 based on 3000 hrs. and \$08 pwr KWH.

The photometric results were obtained in the Philips Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.

Photometric values based on test performed in compliance with LM-79.

Candlepower

Angle	End	45	Cross	Back-45
0	1666	1666	1666	1666
5	1634	1661	1671	1661
15	1560	1599	1619	1599
25	1420	1475	1513	1475
35	1227	1304	1363	1304
45	998	1101	1186	1101
55	752	886	998	886
65	468	674	780	674
75	238	408	502	408
85	54	132	128	132

Light Distribution

Degrees	Lumens	% Luminaire
0-30	1286	26.1
0-40	2100	42.6
0-60	3736	75.8
0-90	4932	100.0
0-180	4932	100.0

Average Luminance

Zone	End	45'	Cross
45	7359	8120	8741
55	6833	8050	9071
65	5772	8313	9621
75	4800	8216	10115
85	3218	7919	7650

Coefficients of Utilization

EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)									
FCR	80			70			50		
RCR	70	50	30	70	50	30	50	30	
0	118	118	118	115	115	115	111	111	
1	108	103	97	105	101	95	95	93	
2	97	89	81	94	86	81	83	78	
3	89	78	68	85	76	68	72	67	
4	81	68	59	79	68	58	65	57	
5	75	60	52	72	59	52	57	50	
6	68	55	46	67	54	46	52	45	
7	64	50	40	61	48	40	47	40	
8	58	45	36	57	45	36	44	35	
9	56	41	34	54	40	33	40	33	
10	52	39	30	51	38	29	36	29	

2x4 EvoGrid recessed LED, 4800 nominal delivered lumens

LER -122

Catalog No. 2EVG48LH840-4-R-UNV-DIM
Test No. 38786
S/MH 1.3
Lamp Type LED
Lumens 4903
Input Watts 40

Comparative yearly lighting energy cost per 1000 lumens - \$197 based on 3000 hrs. and \$08 pwr KWH.

The photometric results were obtained in the Philips Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.

Photometric values based on test performed in compliance with LM-79.

Candlepower

Angle	End	45	Cross	Back-45
0	1658	1658	1658	1658
5	1623	1653	1664	1653
15	1550	1591	1612	1591
25	1411	1468	1506	1468
35	1219	1299	1357	1299
45	991	1097	1179	1097
55	747	882	992	882
65	465	673	775	673
75	236	405	480	405
85	54	127	126	127

Light Distribution

Degrees	Lumens	% Luminaire
0-30	1280	26.1
0-40	2090	42.6
0-60	3719	75.8
0-90	4902	100.0
0-180	4903	100.0

Average Luminance

Zone	End	45'	Cross
45	7307	8088	8690
55	6785	8019	9012
65	5735	8297	9556
75	4761	8153	9672
85	3206	7578	7524

Coefficients of Utilization

EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)									
FCR	80			70			50		
RCR	70	50	30	70	50	30	50	30	
0	118	118	118	115	115	115	111	111	
1	108	103	97	105	101	95	95	93	
2	97	89	81	94	86	81	83	78	
3	89	78	68	85	76	68	72	67	
4	81	68	59	79	68	58	65	57	
5	75	60	52	72	59	52	57	50	
6	68	55	46	67	54	46	52	45	
7	64	50	40	61	48	40	47	40	
8	58	45	36	57	45	36	44	35	
9	56	41	34	54	40	33	40	33	
10	52	39	30	51	38	29	36	29	

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philips.com/luminaires

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PHILIPS

Recessed

EvoKit LED Retrofit Kit Gen 4



Project: _____
 Location: _____
 Cat. No: _____
 Type: _____
 Lamps: _____ Qty: _____
 Notes: _____

Philips EvoKit LED retrofit kit gen 4 is an energy efficient LED alternative to traditional linear fluorescent troffers. Not only does it offer energy savings¹, it also helps reduce maintenance costs due to its long lifetime. Simple construction helps decrease the installation time meaning you can have an LED solution in your ceiling in just minutes.

Ordering guide (continued on next page)

Product Number	12NC	Description	Watts ³	Volts	Lumen Maintenance (Hrs.) ²	Approx. Lumens ³	Color Temp. (K)	Efficacy	Diffuser
Dimming: 0-10V									
515692	929000781813	EvoKit 2x2 P 23L 17W 835 2 0-10 7 G4	17	120-277	70,000	2300	3500	134	Ribbed
515759	929000782213	EvoKit 2x2 P 23L 17W 840 2 0-10 7 G4	17	120-277	70,000	2300	4000	137	Ribbed
◆ 516005	929000783313	EvoKit 2x2 P 32L 24W 835 2 0-10 7 G4	24	120-277	70,000	3200	3500	132	Ribbed
◆ 515940	929000782713	EvoKit 2x2 P 32L 24W 840 2 0-10 7 G4	24	120-277	70,000	3200	4000	135	Ribbed
516237	929000785513	EvoKit 2x4 P 30L 22W 835 2 0-10 7 G4	22	120-277	70,000	3000	3500	135	Ribbed
516039	929000783613	EvoKit 2x4 P 30L 22W 840 2 0-10 7 G4	22	120-277	70,000	3000	4000	137	Ribbed
◆ 516286	929000786013	EvoKit 2x4 P 36L 27W 835 2 0-10 7 G4	27	120-277	70,000	3600	3500	135	Ribbed
◆ 516328	929000786413	EvoKit 2x4 P 36L 26W 840 2 0-10 7 G4	26	120-277	70,000	3600	4000	137	Ribbed
◆ 516427	929000787413	EvoKit 2x4 P 42L 32W 835 2 0-10 7 G4	32	120-277	70,000	4200	3500	134	Ribbed
◆ 516369	929000786813	EvoKit 2x4 P 42L 31W 840 2 0-10 7 G4	31	120-277	70,000	4200	4000	136	Ribbed
516534	929000788513	EvoKit 2x4 P 47L 36W 835 2 0-10 7 G4	36	120-277	70,000	4700	3500	132	Ribbed
516476	929000787913	EvoKit 2x4 P 47L 35W 840 2 0-10 7 G4	35	120-277	70,000	4700	4000	135	Ribbed
517482	929000798813	EvoKit 2x2 P 32L 24W 835 2 0-10 7 G4 SM	24	120-277	70,000	3200	3500	132	Smooth
517466	929000798613	EvoKit 2x2 P 32L 24W 840 2 0-10 7 G4 SM	24	120-277	70,000	3200	4000	135	Smooth
517508	929000799013	EvoKit 2x4 P 36L 27W 835 2 0-10 7 G4 SM	27	120-277	70,000	3600	3500	135	Smooth
517516	929000799113	EvoKit 2x4 P 36L 26W 840 2 0-10 7 G4 SM	26	120-277	70,000	3600	4000	137	Smooth
517540	929000799413	EvoKit 2x4 P 42L 32W 835 2 0-10 7 G4 SM	32	120-277	70,000	4200	3500	134	Smooth
517524	929000799213	EvoKit 2x4 P 42L 31W 840 2 0-10 7 G4 SM	31	120-277	70,000	4200	4000	136	Smooth

See footnotes on the last page.



EvoKit LED retrofit kit gen 4

Ordering guide (continued from previous page)

Product Number	12NC	Description	Watts	Volts	Lumen Maintenance (Hrs.) ²	Approx. Lumens ³	Color Temp. (K)	Efficacy	Diffuser
Driver: 0-10V dimming									
515643	929000781613	EvoKit 2x2 P 23L 17W 850 2 0-10 7 G4	17	120-277	70,000	2300	5000	138	Ribbed
515981	929000783113	EvoKit 2x2 P 32L 24W 850 2 0-10 7 G4	24	120-277	70,000	3200	5000	135	Ribbed
516260	929000785813	EvoKit 2x4 P 36L 26W 850 2 0-10 7 G4	26	120-277	70,000	3600	5000	139	Ribbed
516401	929000787213	EvoKit 2x4 P 42L 31W 850 2 0-10 7 G4	31	120-277	70,000	4200	5000	138	Ribbed
516518	929000788313	EvoKit 2x4 P 47L 34W 850 2 0-10 7 G4	34	120-277	70,000	4700	5000	136	Ribbed
Driver: 120V Mark 10 dimming									
515650	929000781713	EvoKit 2x2 P 23L 19W 8351MK10 7 G4	19	120	70,000	2478	3500	130	Ribbed
515742	929000782113	EvoKit 2x2 P 23L 19W 840 1 MK10 7 G4	19	120	70,000	2526	4000	132	Ribbed
515999	929000783213	EvoKit 2x2 P 32L 25W 8351 MK10 7 G4	25	120	70,000	3224	3500	130	Ribbed
515932	929000782613	EvoKit 2x2 P 32L 25W 840 1 MK10 7 G4	25	120	70,000	3295	4000	133	Ribbed
516229	929000785413	EvoKit 2x4 P 30L 26W 8351 MK10 7 G4	26	120	70,000	3304	3500	127	Ribbed
516187	929000785013	EvoKit 2x4 P 30L 23W 840 1 MK10 7 G4	23	120	70,000	2928	4000	130	Ribbed
516278	929000785913	EvoKit 2x4 P 36L 29W 835 1 MK10 7 G4	29	120	70,000	3686	3500	128	Ribbed
516310	929000786313	EvoKit 2x4 P 36L 29W 840 1 MK10 7 G4	29	120	70,000	3769	4000	131	Ribbed
516419	929000787313	EvoKit 2x4 P 42L 34W 835 1 MK10 7 G4	34	120	70,000	4303	3500	128	Ribbed
516351	929000786713	EvoKit 2x4 P 42L 34W 840 1 MK10 7 G4	34	120	70,000	4399	4000	131	Ribbed
516526	929000788413	EvoKit 2x4 P 47L 38W 835 1 MK10 7 G4	38	120	70,000	4831	3500	128	Ribbed
516468	929000787813	EvoKit 2x4 P 47L 38W 840 1 MK10 7 G4	38	120	70,000	4934	4000	130	Ribbed
Driver: 277V Mark 10 dimming									
● 515700	929000781913	EvoKit 2x2 P 23L 19W 835 5 MK10 7 G4	19	277	70,000	2300	3500	121	Ribbed
● 515767	929000782313	EvoKit 2x2 P 23L 21W 840 5 MK10 7 G4	21	277	70,000	2526	4000	123	Ribbed
● 516021	929000783513	EvoKit 2x2 P 32L 26W 835 5 MK10 7 G4	26	277	70,000	3200	3500	124	Ribbed
● 515965	929000782913	EvoKit 2x2 P 32L 25W 840 5 MK10 7 G4	26	277	70,000	3200	4000	127	Ribbed
● 516252	929000785713	EvoKit 2x4 P 30L 25W 835 5 MK10 7 G4	25	277	70,000	3000	3500	120	Ribbed
● 516211	929000785313	EvoKit 2x4 P 30L 25W 840 5 MK10 7 G4	25	277	70,000	3000	4000	122	Ribbed
● 516294	929000786113	EvoKit 2x4 P 36L 30W 835 5 MK10 7 G4	30	277	70,000	3687	3500	123	Ribbed
● 516336	929000786513	EvoKit 2x4 P 36L 29W 840 5 MK10 7 G4	28	277	70,000	3600	4000	126	Ribbed
● 516443	929000787613	EvoKit 2x4 P 42L 35W 835 5 MK10 7 G4	35	277	70,000	4303	3500	124	Ribbed
● 516385	929000787013	EvoKit 2x4 P 42L 33W 840 5 MK10 7 G4	33	277	70,000	4200	4000	127	Ribbed
● 516559	929000788713	EvoKit 2x4 P 47L 38W 835 5 MK10 7 G4	38	277	70,000	4700	3500	125	Ribbed
● 516492	929000788113	EvoKit 2x4 P 47L 37W 840 5 MK10 7 G4	37	277	70,000	4700	4000	127	Ribbed
Dimming: 0-10V at 347V									
515718	929000782013	EvoKit 2x2 P 23L 18W 835 6 0-10 7 G4	18	347	70,000	2300	3500	128	Ribbed
515866	929000782413	EvoKit 2x2 P 23L 18W 840 6 0-10 7 G4	18	347	70,000	2300	4000	130	Ribbed
515973	929000783013	EvoKit 2x2 P 32L 24W 835 6 0-10 7 G4	24	347	70,000	3200	3500	135	Ribbed
515890	929000782513	EvoKit 2x2 P 32L 24W 840 6 0-10 7 G4	24	347	70,000	3200	4000	135	Ribbed
516302	929000786213	EvoKit 2x4 P 36L 27W 835 6 0-10 7 G4	27	347	70,000	3600	3500	133	Ribbed
516344	929000786613	EvoKit 2x4 P 36L 26W 840 6 0-10 7 G4	26	347	70,000	3600	4000	136	Ribbed
516450	929000787713	EvoKit 2x4 P 42L 31W 835 6 0-10 7 G4	31	347	70,000	4200	3500	138	Ribbed
516393	929000787113	EvoKit 2x4 P 42L 31W 840 6 0-10 7 G4	31	347	70,000	4200	4000	136	Ribbed
516567	929000788813	EvoKit 2x4 P 47L 36W 835 6 0-10 7 G4	36	347	70,000	4700	3500	132	Ribbed
516500	929000788213	EvoKit 2x4 P 47L 35W 840 6 0-10 7 G4	35	347	70,000	4700	4000	135	Ribbed

See footnotes on the last page.

EvoKit LED retrofit kit gen 4

Ordering guide (continued from previous page)

Product Number	12NC	Description	Watts	Volts	Lumen Maintenance (Hrs.) ²	Approx. Lumens ³	Color Temp. (K)	Efficacy	Diffuser
Dimming: SR									
516013	929000783413	EvoKit 2x2 P 32L 25W 835 2 SR 7 G4	25	120-277	70,000	3200	3500	129	Ribbed
◆ 515957	929000782813	EvoKit 2x2 P 32L 24W 840 2 SR 7 G4	24	120-277	70,000	3200	4000	132	Ribbed
516245	929000785613	EvoKit 2x4 P 30L 23W 835 2 SR 7 G4	23	120-277	70,000	3000	3500	131	Ribbed
516203	929000785213	EvoKit 2x4 P 30L 23W 840 2 SR 7 G4	23	120-277	70,000	3000	4000	133	Ribbed
516435	929000787513	EvoKit 2x4 P 42L 32W 835 2 SR 7 G4	32	120-277	70,000	4200	3500	132	Ribbed
◆ 516377	929000786913	EvoKit 2x4 P 42L 32W 840 2 SR 7 G4	32	120-277	70,000	4200	4000	134	Ribbed
516542	929000788613	EvoKit 2x4 P 47L 36W 835 2 SR 7 G4	36	120-277	70,000	4700	3500	130	Ribbed
516484	929000788013	EvoKit 2x4 P 47L 36W 840 2 SR 7 G4	36	120-277	70,000	4700	4000	132	Ribbed
517557	929000799513	EvoKit 2x4 P 42L 32W 835 2 SR 7 G4 SM	32	120-277	70,000	4200	3500	132	Smooth
517532	929000799313	EvoKit 2x4 P 42L 32W 840 2 SR 7 G4 SM	32	120-277	70,000	4200	4000	134	Smooth
517490	929000798913	EvoKit 2x2 P 32L 25W 835 2 SR 7 G4 SM	25	120-277	70,000	3200	3500	129	Smooth
517474	929000798713	EvoKit 2x2 P 32L 24W 840 2 SR 7 G4 SM	24	120-277	70,000	3200	4000	132	Smooth
EvoKit with Air Return									
515494	929000781013	EvoKit 2x2 A 23L 17W 835 2 O-10 7 G4	17	120-277	70,000	2300	3500	134	Ribbed
515544	929000781113	EvoKit 2x2 A 23L 17W 840 2 O-10 7 G4	17	120-277	70,000	2300	4000	136	Ribbed
515551	929000781213	EvoKit 2x2 A 32L 24W 835 2 O-10 7 G4	24	120-277	70,000	3200	3500	135	Ribbed
515585	929000781513	EvoKit 2x2 A 32L 25W 835 2 SR 7 G4	24	120-277	70,000	3200	3500	130	Ribbed
515569	929000781313	EvoKit 2x2 A 32L 24W 840 2 O-10 7 G4	24	120-277	70,000	3200	4000	135	Ribbed
515577	929000781413	EvoKit 2x2 A 32L 24W 840 2 SR 7 G4	24	120-277	70,000	3200	4000	133	Ribbed
516054	929000783813	EvoKit 2x4 A 30L 22W 835 2 O-10 7 G4	22	120-277	70,000	3000	3500	135	Ribbed
516062	929000783913	EvoKit 2x4 A 30L 23W 835 2 SR 7 G4	23	120-277	70,000	3000	3500	132	Ribbed
516195	929000785113	EvoKit 2x4 A 30L 22W 840 2 O-10 7 G4	22	120-277	70,000	3000	4000	138	Ribbed
516047	929000783713	EvoKit 2x4 A 30L 22W 840 2 SR 7 G4	22	120-277	70,000	3000	4000	136	Ribbed
516088	929000784013	EvoKit 2x4 A 36L 27W 835 2 O-10 7 G4	27	120-277	70,000	3600	3500	135	Ribbed
516096	929000784113	EvoKit 2x4 A 36L 26W 840 2 O-10 7 G4	26	120-277	70,000	3600	4000	137	Ribbed
516120	929000784413	EvoKit 2x4 A 42L 31W 835 2 O-10 7 G4	32	120-277	70,000	4200	3500	134	Ribbed
516138	929000784513	EvoKit 2x4 A 42L 32W 835 2 SR 7 G4	32	120-277	70,000	4200	3500	132	Ribbed
516104	929000784213	EvoKit 2x4 A 42L 31W 840 2 O-10 7 G4	31	120-277	70,000	4200	4000	136	Ribbed
516112	929000784313	EvoKit 2x4 A 42L 31W 840 2 SR 7 G4	36	120-277	70,000	4200	4000	135	Ribbed
516161	929000784813	EvoKit 2x4 A 47L 36W 835 2 O-10 7 G4	36	120-277	70,000	4700	3500	132	Ribbed
516179	929000784913	EvoKit 2x4 A 47L 36W 835 2 SR 7 G4	36	120-277	70,000	4700	3500	131	Ribbed
516146	929000784613	EvoKit 2x4 A 47L 35W 840 2 O-10 7 G4	35	120-277	70,000	4700	4000	135	Ribbed
516153	929000784713	EvoKit 2x4 A 47L 35W 840 2 SR 7 G4	35	120-277	70,000	4700	4000	134	Ribbed

See footnotes on the last page.

EvoKit LED retrofit kit gen 4

EvoKit with SpaceWise DT technology

Product Number	12NC	Description	Watts	Volts	Lumen Maint. (Hrs.) ²	Approx. Lumens ³	Color Temp. (K)	Efficacy	Diffuser
518332	929001709313	EvoKit 2x2 P 32L 25W 835 2 SWZDT 7 G4	25	120-277	70,000	3200	3500	129	Ribbed
518324	929001709213	EvoKit 2x2 P 32L 24W 840 2 SWZDT 7 G4	24	120-277	70,000	3200	4000	132	Ribbed
518407	929001710013	EvoKit 2x4 P 30L 23W 835 2 SWZDT 7 G4	23	120-277	70,000	3000	3500	131	Ribbed
518415	929001710113	EvoKit 2x4 P 30L 23W 840 2 SWZDT 7 G4	23	120-277	70,000	3000	4000	133	Ribbed
518423	929001710213	EvoKit 2x4 P 42L 32W 835 2 SWZDT 7 G4	32	120-277	70,000	4200	3500	132	Ribbed
518431	929001710313	EvoKit 2x4 P 42L 32W 840 2 SWZDT 7 G4	32	120-277	70,000	4200	4000	134	Ribbed
518449	929001710413	EvoKit 2x4 P 47L 36W 835 2 SWZDT 7 G4	36	120-277	70,000	4700	3500	130	Ribbed
518456	929001710513	EvoKit 2x4 P 47L 36W 840 2 SWZDT 7 G4	36	120-277	70,000	4700	4000	132	Ribbed
518316	929001709113	EvoKit 2x2 A 32L 25W 835 2 SWZDT 7 G4	25	120-277	70,000	3200	3500	130	Ribbed
518308	929001709013	EvoKit 2x2 A 32L 24W 840 2 SWZDT 7 G4	24	120-277	70,000	3200	4000	133	Ribbed
518357	929001709513	EvoKit 2x4 A 30L 23W 835 2 SWZDT 7 G4	23	120-277	70,000	3000	3500	132	Ribbed
518340	929001709413	EvoKit 2x4 A 30L 22W 840 2 SWZDT 7 G4	22	120-277	70,000	3000	4000	136	Ribbed
518373	929001709713	EvoKit 2x4 A 42L 32W 835 2 SWZDT 7 G4	32	120-277	70,000	4200	3500	132	Ribbed
518365	929001709613	EvoKit 2x4 A 42L 31W 840 2 SWZDT 7 G4	31	120-277	70,000	4200	4000	135	Ribbed
518399	929001709913	EvoKit 2x4 A 47L 36W 835 2 SWZDT 7 G4	36	120-277	70,000	4700	3500	131	Ribbed
518381	929001709813	EvoKit 2x4 A 47L 35W 840 2 SWZDT 7 G4	35	120-277	70,000	4700	4000	134	Ribbed

See footnotes on page 9. Please refer to Philips.com/Spacewise for more detailed specification sheets as well as a list of compatible wireless dimming switches.

Features

- Occupancy sensing, daylight harvesting and task tuning in one device
- Granular dimming (occupancy sharing)
- Dwell time
- Scene setting
- Configuration of sensor parameters— if desired — using NFC or IR via intuitive Android-based Philips field apps
- Quick task tuning in the field to optimize light and power levels
- Enables auto-off/manual-on and auto-off / partial-on application
- DLC qualified: Listed on the QPL for Networked Lighting Controls

Benefits

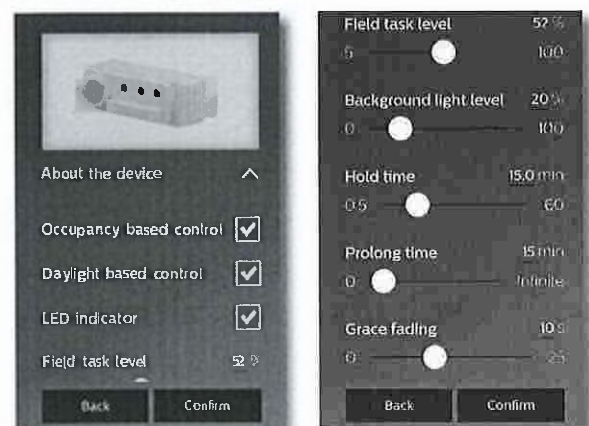
- Installation savings - integral wireless controls factory installed. No need to order separate components.
- Minimal startup and configuration expertise - savings on labor time & effort
- Deep energy savings & code compliance strategies
- Faster ROI with attractive payback periods (varies depending on luminaire choices)

Applications

- Conference rooms
- Individual offices
- Open offices
- Classrooms
- Storage and break areas
- Restrooms
- Lobbies



New configuration tool



Sensor parameters can be configured via Philips field apps. Two versions are available:

1. NFC – This app allows configuring sensor parameters only when you can physically access the sensor with a smartphone.
2. IR – This app allows configuring sensor parameters plus enables grouping to a wireless switch, which can be done with the IR feature of applicable phones from floor level.

You must first register for the app to receive a username and password, then download Philips field apps from the Google Play Store.

Refer to the website for registration details:

www.usa.lighting.philips.com/support/support/tools/

EvoKit LED retrofit kit gen 4

Application

- A highly efficient, visually comfortable, architecturally styled LED retrofit kit designed to replace recessed linear fluorescent troffers.
- Unique modular design offers refreshing new look in the ceiling when compared to traditional fluorescent luminaires.
- Single light bar combined with slanted troffer helps reflect light to reduce glare and provide uniform light distribution making it ideal for applications such as offices, schools, healthcare and retail.
- Excellent color rendering with a CRI above 80.
- Extremely high efficacies up to 138 lumens per watt.
- LEDs are an excellent source for use with controls since dimming or frequent switching does not degrade the performance or life of the source.
- Designed for use with standard grid (NEMA "G") or Narrow Grid (NEMA "NFG") ceiling T-Grids.
- High efficiency source and luminaire design help significantly reduce energy consumption and more easily comply with known energy codes.
- Helps meet regulation requirements such as ASHRAE 90.1 and Title 24 when matched with suitable controls.

Construction/Finish

- Simple design allows for quick installation in existing luminaire without the need to break the ceiling plenum.

- Constructed using galvanized steel which helps fight rust and makes for more durable product.
- Integrated ceiling tabs for securement within the ceiling for areas prone to extreme conditions
- Minimum depth of only 3" necessary to allow proper clearance and installation of the EvoKit.
- Retrofit kit is powder coated after fabrication with high quality, durable finish to ensure no unfinished edges and avoid future potential of corrosion.
- Components fit together easily without the need for tools during installation.

Electrical

- Multiple driver options available
 - Philips Advance Xitanium SR driver allows flexibility to integrate a range of control options.
 - 0-10V dimming satisfies universal voltage requirements
- 5-year limited warranty includes all components of the retrofit kit, including driver, LED board and nonelectrical components.**
- Listed with UL and Design Lights Consortium† to ensure quality performance and safety standards are met.
- High efficiency LEDs have a minimum 70,000 hour rated life (L₇₀).

Enclosure

- Diffuser requires no frames or fasteners and can be easily removed from below without tools if needed.

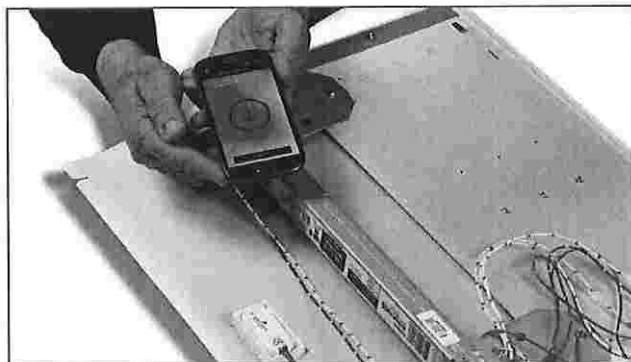
Accessories

- Suitable for use with Philips 503441 emergency backup.
- Suitable for use with a wide range of control systems.
- Appropriate for new construction when used with standard listed lensed or parabolic troffers.

Prod. No.	Description
502583	EvoKit 2x4 replacement lens ribbed
517748	EvoKit 2x4 replacement lens smooth
502575	EvoKit 2x2 replacement lens ribbed
517755	EvoKit 2x2 replacement lens smooth
503441	EvoKit field installed emergency battery backup (requires the use of bracket)
517730	EvoKit emergency battery backup bracket (brackets come in packs of 4)

EvoKit with new SimpleSet technology for wireless lumen level programming

EvoKit with new SimpleSet technology allows the maximum lumen level to be set prior to installation using a smartphone-based app without requiring power to the luminaire. Available in the 0-10V and SR versions only. The app can be downloaded at Google Play. Please contact your Philips representative for the current list of approved Android smartphones. Distributors can set lumen levels prior to shipping, and contractors can set lumen levels prior to installation. Lumen level is quickly and easily set in two steps:



Step 1: Place the smartphone next to the NFC antenna on the driver.

Step 2: Follow the on-screen instructions.



EvoKit LED retrofit kit gen 4

EvoKit with air return

The air return versions of EvoKit are suitable for retrofitting listed air return troffers.

2x2 air return data

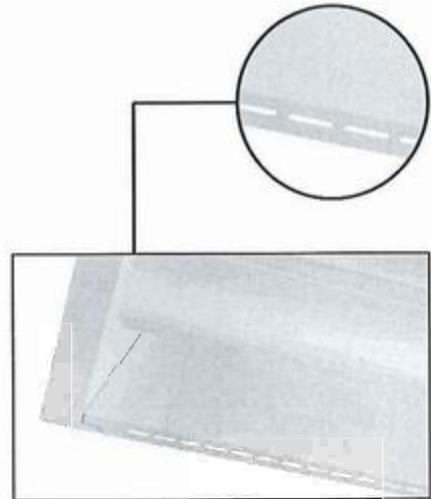
Return Air Volume, SCFM.	61	69	80	97	112	131
Negative Static Pressure, in. H ₂ O	0.11	0.15	0.20	0.30	0.40	0.55
**Noise Criteria (NC)	17	21	25	31	34	38

Note: 24 total air slots, each 30mm x 6mm.

2x4 air return data

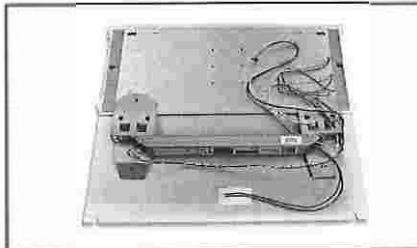
Return Air Volume, SCFM.	105	119	128	162	259	272
Negative Static Pressure, in. H ₂ O	0.05	0.08	0.10	0.20	0.45	0.55
**Noise Criteria (NC)	<15	32	32	36	38	40

Note: 50 total air slots, each 30mm x 6mm.



EvoKit Sensor Ready (SR) with Philips Advance Xitanium SR for connected lighting solutions

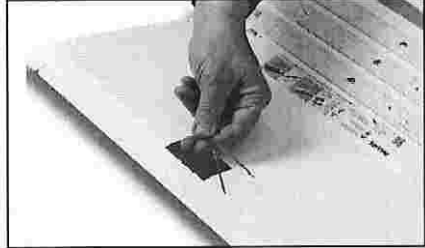
EvoKit SR is a new platform that allows users to choose different control platforms to suit their needs and budget; from simple occupancy and daylight sensing to cloud-connected data-reporting sensing. This empowers users to fine-tune their energy use for reduced energy costs. Various Philips EasySense, SpaceWise and other SR certified controls are available. Please refer to Philips.com/Evokit for details. Contact your Philips representative for a current list of additional approved sensors. Sensors are connected in the field with just a few simple steps:



Step 1: EvoKit SR is shipped with a plate covering the sensor hole. There are two wires secured to the back of the plate.



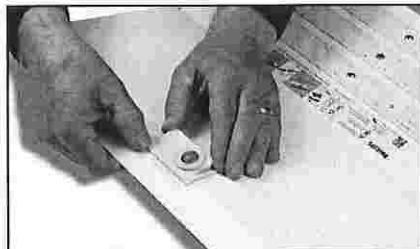
Step 2: The plate can be removed before or after you install EvoKit SR. Just gently slide the plate to one end and remove.



Step 3: Remove the two wires that were secured to the back of the plate.



Step 4: Take these two wires and insert them into the sensor. They are not polarity sensitive.



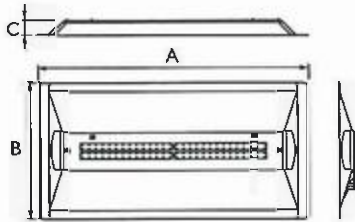
Step 5: Insert the sensor back into the hole. The sensor may or may not require a socket.

Commercial Product Name	Order Code
EasySense EVO102	514877
EasySense EVO200	516575
EasySense EVO300	517763

EvoKit LED retrofit kit gen 4

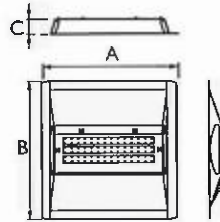
Dimensions 2x4

A Face Plate Length	B Face Plate Width	C Height
47.83"	23.9"	2.95"



Dimensions 2x2

A Face Plate Length	B Face Plate Width	C Height
23.9"	23.9"	2.95"



2'x2' EvoKit, P 23L 17W 835 2 0-10 7 G4, 2,202 delivered lumens

Catalog No. 515692
Test No. x223L
S/MH 12
Lamp Type LED
Lumens/Watt 131
Input Watts 17

Comparative yearly lighting energy cost per 1000 lumens - \$1.83 based on 3000 hours and \$0.08/kWh

The photometric results were obtained in the Design Lights Consortium Test Lab which is NVLAP accredited by the National Institute of Standards and Technology

Photometric values based on tests performed in compliance with LM-79

Candlepower Angle	End	Cross	Back-45
0	800	800	0
5	799	796	0
10	785	784	0
15	763	765	0
20	733	738	0
25	695	704	0
30	650	663	0
35	600	617	0
40	545	569	0
45	486	519	0
50	427	468	0
55	365	418	0
60	304	367	0
65	243	313	0
70	182	255	0
75	124	192	0
80	71	126	0
85	26	60	0

Coefficients of Utilization EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)

pcc dw RCR	80			70			50	
	70	50	30	70	50	30	50	30
0	118	118	118	115	115	115	111	111
1	108	104	98	106	101	96	96	93
2	97	90	82	95	88	81	84	79
3	90	79	70	86	77	69	73	68
4	81	69	60	80	68	59	66	58
5	76	63	53	72	60	53	58	52
6	69	56	46	68	55	46	54	46
7	66	51	41	63	50	41	48	40
8	59	46	38	58	46	38	45	36
9	56	42	34	55	41	34	40	34
10	53	40	32	52	39	30	38	30

Light Distribution			Average Luminaire			
Degrees	Lumens	% Luminaire	Angle	End	45°	Cross
0-30	609	27.7	45	5897	6110	6297
0-40	984	44.7	55	5463	5913	6259
0-60	1709	77.6	65	4936	5867	6356
0-90	2202	100	75	4122	5880	6369
			85	2597	5689	5953

2'x2' EvoKit, P 32L 24W 835 2 0-10 7 G4, 3,062 delivered lumens

Catalog No. 516005
Test No. x232L
S/MH 12
Lamp Type LED
Lumens/Watt 129
Input Watts 24

Comparative yearly lighting energy cost per 1000 lumens - \$1.86 based on 3000 hours and \$0.08/kWh

The photometric results were obtained in the Design Lights Consortium Test Lab which is NVLAP accredited by the National Institute of Standards and Technology

Photometric values based on tests performed in compliance with LM-79

Candlepower Angle	End	Cross	Back-45
0	1112	1112	0
5	1109	1102	0
10	1090	1082	0
15	1060	1052	0
20	1018	1010	0
25	966	959	0
30	903	901	0
35	832	836	0
40	756	768	0
45	674	699	0
50	591	630	0
55	506	559	0
60	421	486	0
65	338	410	0
70	254	328	0
75	173	238	0
80	99	138	0
85	37	51	0

Coefficients of Utilization EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)

pcc dw RCR	80			70			50	
	70	50	30	70	50	30	50	30
0	118	118	118	115	115	115	111	111
1	108	104	98	106	101	96	96	93
2	97	90	82	95	88	81	84	79
3	90	79	70	86	77	69	73	67
4	81	69	60	80	68	59	66	58
5	76	63	53	72	60	53	58	52
6	69	56	46	68	55	46	54	46
7	65	51	41	63	50	41	48	40
8	59	46	38	58	46	38	45	36
9	56	42	34	55	41	34	40	34
10	53	40	32	52	39	30	38	30

Light Distribution			Average Luminaire			
Degrees	Lumens	% Luminaire	Angle	End	45°	Cross
0-30	846	27.6	45	8183	8270	8488
0-40	1369	44.7	55	7572	7953	8358
0-60	2377	77.6	65	6858	7768	8336
0-90	3062	100	75	5744	7440	7901
			85	3651	5398	4985

EvoKit LED retrofit kit gen 4

2'x4' EvoKit, P 30L 22W 835 2 0-10 7 G4, 2,758 delivered lumens

Catalog No.	516237	Candlepower	Angle	End	45	Cross	Back-45	Coefficients of Utilization EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)							
Test No.	x430L							pcc	80			70			50
S/MH	1.2							pw	70	50	30	70	50	30	50
Lamp Type	LED							RCR							
Lumens/Watt	133							0	118	118	118	115	115	115	111
Input Watts	21							1	108	103	97	105	101	96	95
Comparative yearly lighting energy cost per 1000 lumens - \$180 based on 3000 hours and \$0.08/kWh								2	97	89	81	94	86	81	83
The photometric results were obtained in the Design Lights Consortium Test Lab which is NVLAP accredited by the National Institute of Standards and Technology								3	89	78	69	86	76	68	72
Photometric values based on tests performed in compliance with LM-79								4	81	68	59	79	68	58	65
								5	75	61	52	72	59	52	57
								6	68	55	46	67	54	46	53
								7	64	50	40	61	48	40	47
								8	59	46	36	57	45	36	44
								9	56	41	34	54	40	34	40
								10	52	39	30	51	38	30	36

Light Distribution				Average Luminance			
Degrees	Lumens	% Luminaire		Angle	End	45°	Cross
0-30	731	26.5		45	4125	4319	4526
0-40	1189	43.1		55	3864	4239	4613
0-60	2092	75.9		65	3524	4350	4864
0-90	2758	100		75	3004	4607	5066
				85	2007	4500	4471

2'x4' EvoKit, P 36L 27W 835 2 0-10 7 G4, 3,368 delivered lumens

Catalog No.	516286	Candlepower	Angle	End	45	Cross	Back-45	Coefficients of Utilization EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)							
Test No.	x436L							pcc	80			70			50
S/MH	13							pw	70	50	30	70	50	30	50
Lamp Type	LED							RCR							
Lumens/Watt	132							0	118	118	118	115	115	115	111
Input Watts	26							1	108	103	97	105	101	96	95
Comparative yearly lighting energy cost per 1000 lumens - \$182 based on 3000 hours and \$0.08/kWh								2	97	89	81	94	86	81	83
The photometric results were obtained in the Design Lights Consortium Test Lab which is NVLAP accredited by the National Institute of Standards and Technology								3	89	78	69	86	77	68	73
Photometric values based on tests performed in compliance with LM-79								4	81	68	59	79	68	58	65
								5	75	61	52	72	60	52	57
								6	68	55	46	67	55	46	53
								7	64	50	40	61	50	40	47
								8	59	46	36	57	45	36	44
								9	56	41	34	54	41	34	40
								10	52	39	30	51	38	30	36

Light Distribution				Average Luminance			
Degrees	Lumens	% Luminaire		Angle	End	45°	Cross
0-30	896	26.6		45	5063	5281	5517
0-40	1456	43.2		55	4758	5181	5606
0-60	2569	76.0		65	4363	5306	5915
0-90	3368	100		75	3758	5574	6159
				85	2550	4992	5340

EvoKit LED retrofit kit gen 4

2'x4' EvoKit, P 42L 32W 835 2 0-10 7 G4, 4,134 delivered lumens

Catalog No. 516427
Test No. x442L
S/MH 1.3
Lamp Type LED
Lumens/Watt 131
Input Watts 32

Comparative yearly lighting energy cost per 1000 lumens - \$1.83 based on 3000 hours and \$0.08/kWh

The photometric results were obtained in the Design Lights Consortium Test Lab which is NVLAP accredited by the National Institute of Standards and Technology

Photometric values based on tests performed in compliance with LM-79

Candlepower Angle	End	45	Cross	Back-45
0	1435	1435	1435	1435
5	1414	1428	1451	1424
15	1359	1375	1396	1364
25	1247	1264	1288	1249
35	1087	1109	1135	1089
45	888	924	961	902
55	676	734	791	714
65	457	552	614	535
75	242	358	392	341
85	56	122	117	104

Coefficients of Utilization EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)

CUC	80			70			50	
	70	50	30	70	50	30	50	30
RCR								
0	118	118	118	115	115	115	111	111
1	108	103	97	105	101	96	95	93
2	97	89	81	94	86	81	83	78
3	89	78	69	86	77	68	73	67
4	81	68	59	79	68	58	65	57
5	75	61	53	72	60	52	57	51
6	68	56	46	67	55	46	53	45
7	64	50	40	61	50	40	47	40
8	59	46	36	57	45	36	44	35
9	56	41	34	54	41	34	40	33
10	52	39	30	51	38	30	36	29

Light Distribution			Average Luminance			
Degrees	Lumens	% Luminaire	Angle	End	45°	Cross
0-30	1102	26.7	45	4688	4877	5077
0-40	1790	43.3	55	4403	4775	5147
0-60	3143	76.0	65	4033	4881	5427
0-90	4134	100	75	3484	5171	5655
			85	2412	5244	5021

2'x4' EvoKit, P 47L 36W 835 2 0-10 7 G4, 4,662 delivered lumens

Catalog No. 516534
Test No. x447L
S/MH 1.3
Lamp Type LED
Lumens/Watt 131
Input Watts 36

Comparative yearly lighting energy cost per 1000 lumens - \$1.83 based on 3000 hours and \$0.08/kWh

The photometric results were obtained in the Design Lights Consortium Test Lab which is NVLAP accredited by the National Institute of Standards and Technology

Photometric values based on tests performed in compliance with LM-79

Candlepower Angle	End	45	Cross	Back-45
0	1616	1616	1616	1616
5	1593	1609	1634	1604
15	1534	1548	1574	1536
25	1408	1425	1451	1408
35	1230	1250	1280	1227
45	1007	1041	1085	1016
55	767	827	893	805
65	519	624	693	603
75	271	405	443	384
85	68	139	133	119

Coefficients of Utilization EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)

CUC	80			70			50	
	70	50	30	70	50	30	50	30
RCR								
0	118	118	118	115	115	115	111	111
1	108	103	97	105	101	96	95	93
2	97	89	81	94	86	81	83	78
3	89	78	69	86	77	68	73	67
4	81	68	59	79	68	58	65	57
5	75	61	52	72	60	52	57	51
6	68	56	46	67	55	46	53	45
7	64	50	40	61	50	40	47	40
8	59	46	36	57	45	36	44	35
9	56	41	34	54	41	34	40	33
10	52	39	30	51	38	30	36	29

Light Distribution			Average Luminance			
Degrees	Lumens	% Luminaire	Angle	End	45°	Cross
0-30	1241	26.6	45	5317	5496	5727
0-40	2017	43.3	55	4990	5386	5813
0-60	3543	76.0	65	4587	5511	6119
0-90	4662	100	75	3990	5849	6384
			85	2913	5968	5711

EvoKit LED retrofit kit gen 4

Energy saving solution – EvoKit 2'x4'

Estimated lighting costs using a standard 3 lamp T8 troffer			
Present Wattage	85	W	
× Annual operating hours	4,380	hrs	
	=	372,300	Watt-Hours
÷1,000	=	372.3	kWh per year
× kWh rate of \$0.10	=	\$37.23	per year
× 125 fixtures		\$4,653.75	annual energy cost per space
Estimated lighting costs using a Philips 42L 2x4 Evokit G4			
Present Wattage	31	W	
× Annual operating hours	4,380	hrs	
	=	135,780	Watt-Hours
÷1,000	=	135.78	kWh per year
× kWh rate of \$0.10	=	\$13.58	per year
× 125 fixtures		\$1,697.25	annual energy cost per space
Total estimated annual savings[§]		\$2,956.50	
[§] Based on 125 fixtures per space operating 4,380 hours a year. 125 fixtures is roughly equivalent to a 10,000 square foot space. kWh rates will vary.			

FOOTNOTES:

- 1) Please refer to the energy saving chart above for details.
- 2) L₇₀ 72,000 hours@35°C based on TM21 and LM80.
- 3) Based on photometric testing consistent with IES LM-79. Actual wattage may differ by +/- 10%. Actual initial lumen output may vary between -10 and +10% of the rated lumens.
- 4) Made to stock product (Contact your Philips sales representative for stock availability and lead time).
- 5) Please visit www.philips.com/warranties for full details.
- † Restrictions on Hazardous Substances (RoHS) is a European directive (2002/95/EC) designed to limit the content of 6 substances (lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB), and polybrominated diphenyl ethers (PBDE)) in electrical and electrical products. For products used in North America, compliance with RoHS is voluntary and self-certified.
- ‡ Evokit luminaires are Design Lights Consortium qualified. Please see the DLC QPL list for exact catalog numbers (<http://www.designlights.org/QPL>).
- These SKUs do not meet DLC Premium qualification criteria. Evokit luminaires are Design Lights Consortium qualified. Please see the DLC QPL list for exact catalog numbers (<http://www.designlights.org/QPL>).

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PHILIPS Day-Brite CFI

Linear

FluxStream
wraparound

2', 4' and 8'



Project: _____
Location: _____
Cat.No: _____
Type: _____
Lumens: _____ Qty: _____
Notes: _____

Philips Day-Brite/ Philips CFI FluxStream LED wraparound is a high performing luminaire delivering smooth diffuse light ideal for light industrial, commercial and residential applications with the unparalleled energy efficiency of Philips LED lighting.

Ordering guide

Example: FSW440L840-UNV-DIM

Series	Length (nominal)	Lumens ² (nominal)	Colortemp. (K)	Voltage	Driver	Options
FSW						
FSW FluxStream Wraparound	2' 2' length	20L 2000 lumens 30L 3000 lumens	830 80 CRI, 3000K	UNV Universal voltage 120-277V 120 ³ 120V 277 ³ 277V 347 ⁴ 347V	DIM 0-10V1% dimming Step dimming to 40% input power XDIM ^{5,6} MarkX phase dimming DALI ⁷ DALI	EMLED^{8,9} Factory wired Philips Bodine BSL310LP integral emergency pack. Nominal 1100lm DAYOCC¹⁰ Integral sensor, daylighting and occupancy, Philips EasySense SNS102 PCSR Pull chain switch right, 120V only PCSL Pull chain switch left, 120V only PAF Paint after fabrication (white) LSXR10 120-347V motion sensor, factory installed on end cap LSXR10ADC¹¹ 120-347V motion sensor with photocell and hi/lo trim dimming, factory installed on end cap
	4' 4' length	30L 3000 lumens 40L 4000 lumens 55L 5500 lumens 70L 7000 lumens	835 80 CRI, 3500K 840 80 CRI, 4000K 850 80 CRI, 5000K			
	8' 8' length	60L 6000 lumens 80L 8000 lumens 110L 11000 lumens 140L 14000 lumens				

1. 8' is tandem (2 4' lenses with single piece 8' body).
2. Nominal delivered lumens at 25°C ambient.
3. XDIM option must be specified with 120V or 277V options only.
4. 347V with EMLED only available in 8' models.
5. Not available in 2' models.
6. Not available in 4' 70L or 8' 140L models.
7. DALI available up to 80L options only, consult factory for other options.
8. EMLED not available on 2' models.
9. EMLED on 8' models illuminates 4' section in emergency mode.
10. Specify-DIM driver with DAYOCC option. Dimming via wall switch only.
11. Available with DIM driver option only.

Accessories (order separately)

- FSWD2L – FluxWrap Diffuse 2' replacement lens
- FSWD4L – FluxWrap Diffuse 4' replacement lens (order two for 8' models)
- LSXR10 – Low bay PIR occ sensor, 120-277V
- LSXR10ADC – Low bay PIR occ with photocell sensor and hi/lo trim dimming, 120-277V
- FSTH – Sliding hanger bracket (set of 2)
- FSWJ – Continuous row joiner (one per joint)
- (See last page for details and more options)

General notes

Many luminaire components, such as reflectors, refractors, lenses, sockets, lampholders, and LEDs are made from various types of plastics which can be adversely affected by airborne contaminants. If sulfur based chemicals, petroleum based products, cleaning solutions, or other contaminants are expected in the intended area of use, consult factory for compatibility.



FSW FluxStream LED wraparound

2', 4' and 8'

Features

- Compact design for installation in tight spaces
- Frosted acrylic diffuser provides wide light distribution and superior glare control
- Injection molded lens retainers⁵ provide positive diffuser retention, and easy tool-free access to LED boards and driver
- 2', 4' and 8' tandem lengths available to accommodate many field applications
- Up to 100,000 hour predicted L70 LED lumen maintenance provides long service life to reduce maintenance costs
- Can be surface mounted on ceilings or walls, or suspended via chain, pendants or cables
- Wall mountable - ADA compliant
- Ideal for cold applications (-20°C to 25°C)
- FSWJ accessory required for continuous row mounting, one FSWJ at each joint
- 7/8" knock out provided at each end and on base of luminaire. Note: Center knockout is covered and not useable in 4' version with EMLED option.
- Multiple driver options available with 0-10v as standard
- Enclosed lens minimizes penetration of dust, insects, and other debris into the lamp compartment
- 8' tandem unit is two 4' optical assemblies with an aesthetic center mullion on a single full length chassis
- Integral controls options include sensor mounted in one lens retainer. Controls are commissioned via intuitive Philips app on compatible Android smartphones either through NFC or an IR blaster
- Fluxstream luminaires are Designlights Consortium[®] qualified. Please see the DLC QPL list for exact catalog numbers (<http://www.designlights.org/QPL>)
- 5 year manufacturer's limited warranty. Visit www.philips.com/warranties for complete warranty information

Finish

- Baked white acrylic matte high reflectance paint finish

Shielding

- Contoured frosted acrylic lens

Electrical

- LED boards and drivers are RoHS (Restriction of Hazardous Substances) compliant. Total system life rated at 50,000 hours. Predicted L70 lifetime based on LED manufacturer's supplied LM-80 data and in-situ laboratory testing at 25°C ambient

Materials

- Heavy gauge cold rolled steel housing and LED pan. Polycarbonate injection molded end caps. Profile extruded acrylic diffuser

DAYOCC

- Integrated fixture mount Philips EasySense sensor featuring daylight and PIR occupancy sensing
- Compatibility with Philips Advance Xitanium SR Sensor Ready LED drivers
- Features automatic or manual on/off scenarios for code compliance and to realize full energy savings potential
- Basic grouping to a wireless switch via an IR interface with the Philips Field App
- Self-powered single rocker switch Illumra #ZBT-S1AWH (sourced by others), up to 40 luminaires may be grouped to a single switch
- Recommended maximum spacing of 25ft between luminaires, and closest luminaire to wall switch

Labels

- cETLus listed
- Suitable for damp locations

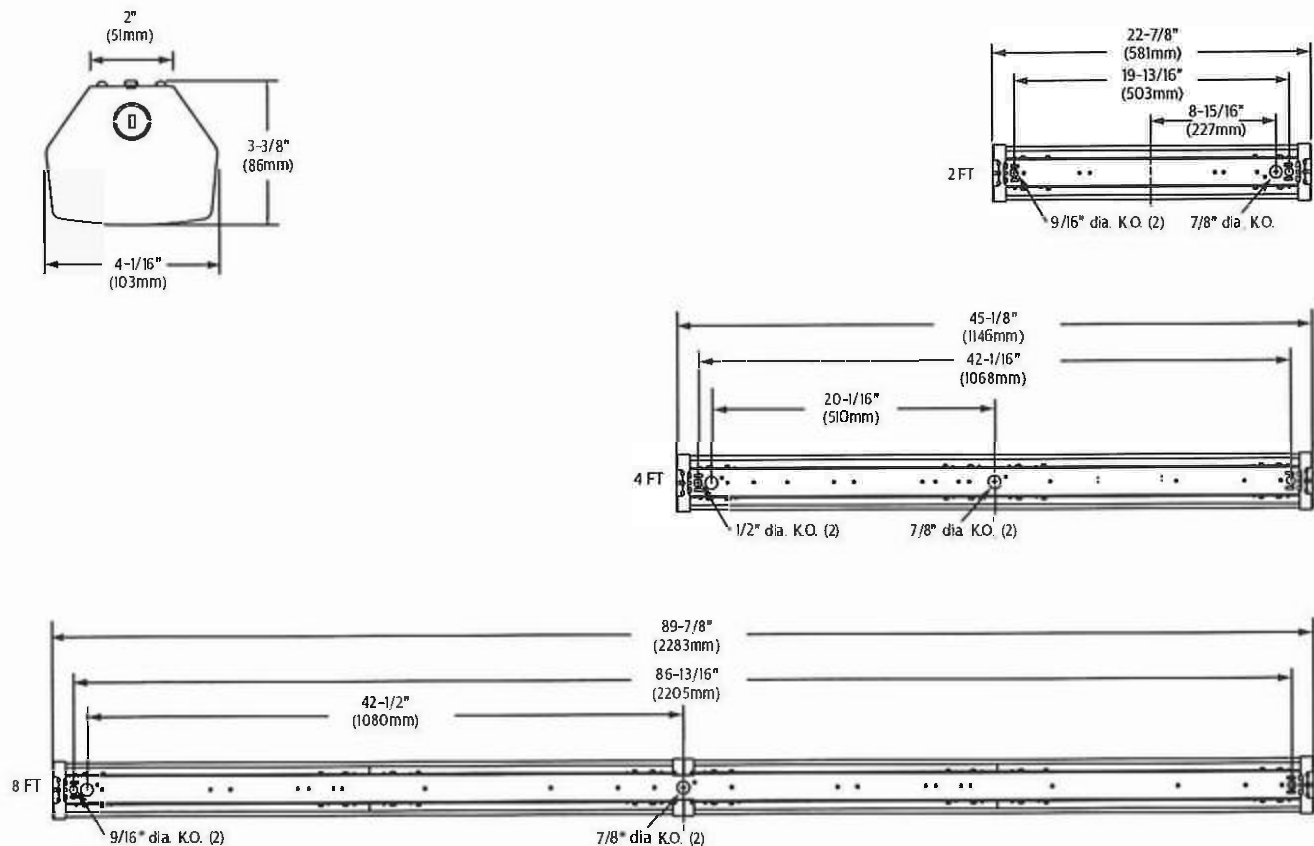
FSW FluxStream LED wraparound

2', 4' and 8'

Performance data

Fixture	Lumens	Wattage	Efficacy
FSW220L840	1904lm	16.6W	114lm/w
FSW230L840	3028lm	28.9W	104lm/w
FSW440L840	3856lm	31.4W	122lm/w
FSW455L840	5339lm	44.5W	119lm/w
FSW470L840	6712lm	58.0W	114lm/w

Dimensions



FSW FluxStream LED wraparound

2', 4' and 8'

Photometry

2' FluxStream LED wraparound, 2000 nominal delivered lumens

LER -114

Catalog No. FSW220L840-UNV-DIM
Test No. 37658
S/MH 1.3
Lamp Type LED
Lumens 1904
Input Watts 17

Candlepower

Angle	End	45	Cross	Back-45
0	559	559	559	559
5	551	558	560	558
15	531	541	545	541
25	490	504	512	504
35	432	452	463	452
45	359	386	401	386
55	278	312	330	312
65	190	233	254	233
75	100	153	176	153
85	23	77	103	77

Comparative yearly lighting energy cost per 1000 lumens - \$2.09 based on 3000 hrs. and \$.08 pwr KWH.

The photometric results were obtained in the Philips Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.

Photometric values based on test performed in compliance with LM-79.

Light Distribution

Degrees	Lumens	% Luminaire
0-30	437	22.9
0-40	718	37.7
0-60	1291	67.7
0-90	1754	92
90-180	153	8.0
0-180	1906	100

Average Luminance

Zone	End	45°	Cross
45	8732	7352	7212
56	8094	6557	6466
65	7141	5657	5641
75	5584	4560	4685
85	2667	3099	3553

Coefficients of Utilization

EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)									
p/c =	20	80	30	70	50	30	50	30	50
Cell	70	50	30	70	50	30	50	30	70
Wall	70	50	30	70	50	30	50	30	70
RCR	116	116	116	112	112	112	107	107	107
0	116	116	116	112	112	112	107	107	107
1	106	100	95	102	96	93	91	88	88
2	94	86	79	92	83	77	79	73	73
3	86	76	67	83	72	66	68	63	63
4	79	67	57	76	65	56	60	54	54
5	72	58	50	69	57	48	55	46	46
6	67	53	44	65	52	42	48	41	41
7	61	47	39	59	46	39	45	36	36
8	57	44	34	56	42	34	40	34	34
9	54	40	32	52	39	32	38	30	30
10	50	36	28	48	35	28	34	28	28

2' FluxStream LED wraparound, 3000 nominal delivered lumens

LER -104

Catalog No. FSW230L840-UNV-DIM
Test No. 37662
S/MH 1.3
Lamp Type LED
Lumens 3028
Input Watts 29

Candlepower

Angle	End	45	Cross	Back-45
0	912	912	912	912
5	899	910	914	910
15	866	882	890	882
25	800	824	836	824
35	706	740	756	740
45	587	633	656	633
55	425	478	523	478
65	290	358	388	358
75	153	235	270	235
85	36	119	158	119

Comparative yearly lighting energy cost per 1000 lumens - \$2.29 based on 3000 hrs. and \$.08 pwr KWH.

The photometric results were obtained in the Philips Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.

Photometric values based on test performed in compliance with LM-79.

Light Distribution

Degrees	Lumens	% Luminaire
0-30	713	23.5
0-40	1174	38.7
0-60	2085	68.8
0-90	2794	92.2
90-180	238	7.8
0-180	3032	100

Average Luminance

Zone	End	45°	Cross
45	14277	12051	11797
56	12361	10058	10244
65	10928	8693	8623
75	8566	7007	7172
85	4110	4810	5437

Coefficients of Utilization

EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)									
p/c =	20	80	30	70	50	30	50	30	50
Cell	70	50	30	70	50	30	50	30	70
Wall	70	50	30	70	50	30	50	30	70
RCR	116	116	116	113	113	113	107	107	107
0	116	116	116	113	113	113	107	107	107
1	106	101	95	102	96	93	92	88	88
2	95	86	80	92	83	78	80	73	73
3	86	76	68	83	73	66	69	63	63
4	80	67	57	77	65	56	61	55	55
5	72	59	51	69	57	50	55	47	47
6	67	54	45	65	53	44	50	41	41
7	63	48	40	59	47	39	45	38	38
8	57	44	35	56	42	34	40	34	34
9	54	40	33	52	40	32	38	30	30
10	51	38	29	48	36	28	34	28	28

FSW FluxStream LED wraparound

2', 4' and 8'

Photometry

4' FluxStream LED wraparound, 4000 nominal delivered lumens

LER -122

Catalog No. FSW440L840-UNV-DIM
Test No. 37656
S/MH 1.3
Lamp Type LED
Lu mens 3856
Input Watts 31

Comparative yearly lighting energy cost per 1000 lumens – \$1.95 based on 3000 hrs. and \$.08 pwh KWH.

The photometric results were obtained in the Philips Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.

Photometric values based on test performed in compliance with LM-79.

Candlepower

Angle	End	45	Cross	Back-45
0	1123	1123	1123	1123
5	1107	1117	1124	1117
15	1067	1085	1096	1085
25	987	1014	1033	1014
35	871	913	934	913
45	728	790	813	790
55	557	642	674	642
65	360	451	505	451
75	190	297	341	297
85	43	155	206	155

Light Distribution

Degrees	Lumens	% Luminaire
0-30	880	22.8
0-40	1449	37.5
0-60	2612	67.6
0-90	3514	91
90-180	348	9.0
0-180	3862	100

Average Luminance

Zone	End	45°	Cross
45	9388	7848	7492
55	8718	7090	6755
65	7439	5791	5742
75	6070	4741	4639
85	3243	3385	3631

Coefficients of Utilization

EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)									
pfc=	20	80			70			50	
Cell		70	50	30	70	50	30	50	30
Wall									
RCR									
0	116	116	116	112	112	112	106	106	106
1	105	100	94	102	95	93	91	88	88
2	94	86	79	92	83	77	79	72	72
3	86	76	67	82	72	66	68	63	63
4	79	67	57	76	65	56	60	54	54
5	72	59	50	69	57	48	55	46	46
6	67	53	44	65	52	44	48	41	41
7	61	47	40	59	46	39	45	36	36
8	57	44	34	56	42	34	40	34	34
9	54	40	32	52	39	32	38	30	30
10	50	36	28	48	35	28	34	28	28

4' FluxStream LED wraparound, 5500 nominal delivered lumens

LER -119

Catalog No. FSW455L840-UNV-DIM
Test No. 376555
S/MH 1.3
Lamp Type LED
Lu mens 5339
Input Watts 45

Comparative yearly lighting energy cost per 1000 lumens – \$2.00 based on 3000 hrs. and \$.08 pwh KWH.

The photometric results were obtained in the Philips Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.

Photometric values based on test performed in compliance with LM-79.

Candlepower

Angle	End	45	Cross	Back-45
0	1546	1546	1546	1546
5	1523	1538	1549	1538
15	1468	1493	1511	1493
25	1357	1396	1423	1396
35	1199	1256	1286	1256
45	1002	1086	1119	1086
55	776	883	927	883
65	495	663	716	663
75	261	408	468	408
85	60	211	279	211

Light Distribution

Degrees	Lumens	% Luminaire
0-30	1211	22.7
0-40	1995	37.3
0-60	3602	67.4
0-90	4871	91.1
90-180	477	8.9
0-180	3862	100

Average Luminance

Zone	End	45°	Cross
45	12919	10790	10317
55	12142	9742	9297
65	10244	8513	8138
75	8365	6504	6366
85	4505	4608	4912

Coefficients of Utilization

EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)									
pfc=	20	80			70			50	
Cell		70	50	30	70	50	30	50	30
Wall									
RCR									
0	116	116	116	112	112	112	106	106	106
1	105	100	95	102	95	93	91	88	88
2	94	86	79	92	83	77	79	72	72
3	86	76	67	82	72	66	68	63	63
4	79	67	57	76	65	56	60	54	54
5	72	58	50	69	57	48	55	46	46
6	67	53	44	64	52	42	48	41	41
7	61	47	39	59	46	39	45	36	36
8	57	44	34	56	42	34	40	34	34
9	54	40	32	52	39	30	36	29	29
10	50	36	28	48	35	28	34	28	28

FSW FluxStream LED wraparound

2', 4' and 8'

Photometry

4' FluxStream LED wraparound, 7000 nominal delivered lumens

LER -114

Catalog No.	FSW470L840-UNV-DIM
Test No.	37654
S/MH	L3
Lamp Type	LED
Lumens	6712
Input Watts	58

Candiepower

Angle	End	45	Cross	Back-45
0	1941	1941	1941	1941
5	1914	1930	1941	1930
15	1845	1875	1893	1875
25	1706	1753	1784	1753
35	1506	1576	1611	1576
45	1259	1362	1402	1362
55	975	1106	1161	1106
65	665	830	895	830
75	327	531	608	531
85	75	264	350	264

Comparative yearly lighting energy cost per 1000 lumens -- \$2.07 based on 3000 hrs. and \$0.08 per KWH.

The photometric results were obtained in the Philips Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.

Photometric values based on test performed in compliance with LM-79.

Light Distribution

Degrees	Lumens	% Luminaire
0-30	1520	22.6
0-40	2503	37.2
0-60	4518	67.2
0-90	6130	91.2
90-180	593	8.8
0-180	6723	100

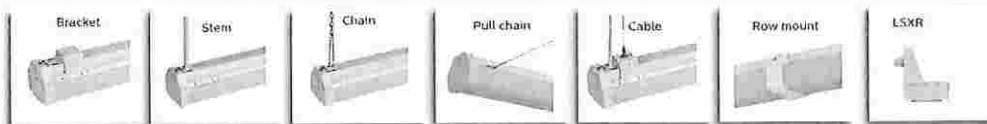
Average Luminance

Zone	End	45	Cross
45	16124	13532	12918
55	15244	12210	11640
65	13762	10665	10181
75	10461	8469	8275
85	5654	5775	6164

Coefficients of Utilization

EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)									
pfc =	20	30	40	50	60	70	80	90	100
Cell	70	50	30	70	50	30	50	30	
Wall									
RCR									
0	116	116	116	112	112	112	106	106	
1	105	100	94	102	96	93	91	88	
2	94	86	79	92	83	77	79	72	
3	86	76	67	82	72	65	68	61	
4	79	67	57	76	65	56	60	54	
5	72	58	50	69	57	48	55	46	
6	67	53	44	64	52	42	48	41	
7	61	47	39	59	46	39	45	36	
8	57	44	34	56	42	34	40	33	
9	54	40	32	52	39	30	36	29	
10	50	36	28	48	35	28	34	26	

Accessories



Accessory Catalog Code	Description
FSTH	Sliding hanger bracket (pair)
SV5F12	12" Stem and canopy kit
SV5F18	18" Stem and canopy kit
SV5F24	24" Stem and canopy kit
SV5F36	36" Stem and canopy kit
SV5F48	48" Stem and canopy kit
FKR-126	Chain hanger set (pair)
DACHxx	Adjustable cable hanger kit (single)
DACHxx-1-SC	Adjustable cable hanger kit with white straight 18/3 cord (single)
DACHxx-1-CC	Adjustable cable hanger kit with white coiled 18/3 cord (single)
DACHxx-2-SC	Adjustable cable hanger kit with white straight 18/4 cord (single)
DACHxx-2-CC	Adjustable cable hanger kit with white coiled 18/4 cord (single)
DACHxx-1D-SC	Adjustable cable hanger kit with white straight 18/5 cord with dimming leads (single)
FSWJ	External continuous row joiner (one per joint)
LSXR10	Low bay pir motion sensor (120-277v)
LSXR10ADC	Low bay pir motion sensor with photocell and hi/lo trim dimming (120-277v)
FSWD2L	2' Diffuse replacement lens
FSWD4L	4' Diffuse replacement lens (Order two for 8' models)

White stem and canopy kit, 1/4" trade size (1/2" O.D.) locknuts included. Works with 9/16" x.O. on base of housing.

Includes two 5' heavy duty link chains with "V" hooks. Attaches to base of housing.

Works with 1/4" hole on base of housing or FSTH hanger bracket.

xx=cable length in inches, enter 48" to 180" lengths in 12" increments

FSWJ accessory required for continuous row mounting

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philips.com/luminaires

FluxStream_LED_Wrap_Spec 07/17 page 6 of 6



Philips Lighting North America Corporation
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Tel. 855-486-2216

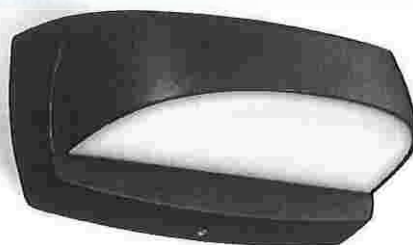
Philips Lighting Canada Ltd.
281 Hillmout Rd, Markham, ON, Canada L6C 2S3
Tel. 800-668-9008

PHILIPS
Stonco

Wall mount

LytePro LED Sconce

LPW7



Project: _____
Location: _____
Cat.No: _____
Type: _____
Quantity: _____
Notes: _____

The Philips Stonco LytePro LED Small Wall Sconce LPW7 features outstanding value in a compact, architectural design. This wall sconce offers chip-on-board (COB) LED technology for outstanding energy savings with good photometric performance. LPW7 is ideal for entryways, corridors, facade and other wall/surface lighting applications.

Stocked luminaires – Ordering guide¹

Catalog Number	Description	Master Pack, Qty	UPC Code
LPW7-8BZ	LPW7, 14W COB LED, 350mA, 4000K, 120-277V, Bronze textured paint	6	786034960441
LPW7-8DGY	LPW7, 14W COB LED, 350mA, 4000K, 120-277V, Dark gray textured paint	6	786034960458
LPW7-1BZPCB	LPW7, 14W COB LED, 350mA, 4000K, 120V, Bronze textured paint, w/button photocell	6	786034960472

Stocked accessories – Ordering guide (Must be ordered separately)

Catalog Number	Description	Master Pack, Qty	UPC Code
LPWCVRPLT-BZ	LPW Universal wall cover mounting plate, Bronze textured paint	(none)	786034960618

Description of catalog codes

Family	Drive current	Voltage	Finish	Options
LPW7 = LytePro 7 LED Small Wall Sconce	(Blank – standard 350mA drive current)	8 = 120-277V 1 = 120V	BZ = Bronze textured paint DGY = Dark gray textured paint	PCB= Button photocontrol

1. Color availability and options vary by model; consult stock luminaires ordering guide above.

LPW7 LytePro LED Small Wall Sconce

Features

- LPW7 wall sconce delivers 1,154 lumens at 14W, with an efficacy of 82 lumens per watt.
- 14W LED may effectively replace 60-200W incandescent, 26-42W compact fluorescent and 35-39W HID luminaires.²
- 4000K neutral white at 70 CRI (minimum) is standard.
- Offers two in-stock colors on standard units.*
- 5-year limited warranty; see philips.com/warranties for specific details.

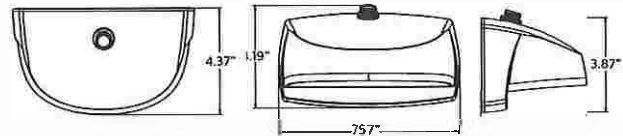
Performance/Specifications

Distribution	Type 2
Initial Lumens (4000K)*	1,154
Average Wattage*	14
Lumens/Watt	82
BUG Rating*	B1/U0/G1
Luminaire Weight	~4lbs (1.8Kg)

Ratings/Approbations/Certifications

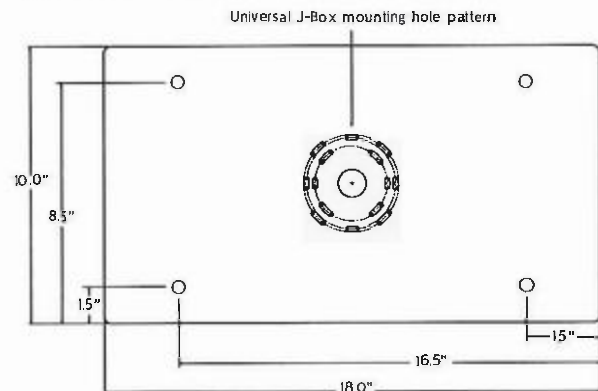
Ingress Protection	IP65 Optical
cETLus	Certified for use in wet locations
Rated Ambient Temperature	-30°C (-22°F) to 40°C (104°F)

Fixture Dimensions³



Accessory Dimensions (ordered separately)

LPWCVRPLT-BZ LPW Universal wall cover mounting plate. 0.08" aluminum, bronze textured paint (used to cover larger pre-existing opening or surfaces, field installed). Offers same J-Box pattern as luminaire or may lagged to wall using (4) knockouts.

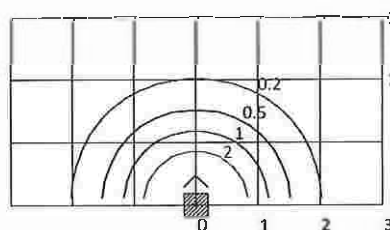


2. Comparable equivalency to HID and other lamp sources depends on multiple criteria including mounting height, fixture spacing, efficiency, performance and classification of the luminaire being replaced and application lighting criteria required for the given project.
3. PCB shown for placement only, available on specific models only (see ordering guide).

Distribution Pattern

LPW7 - 8" MOUNTING HEIGHT			
MOUNTING HEIGHT	6'	8'	10'
MULTIPLIER	1.78	1.0	0.64

- 4. Isolines shown at 2.0, 1.0, 0.5, & 0.2 FC.
- 5. Choose mounting height. Use MULTIPLIER (X) EXISTING FC VALUE= NEW FC VALUE.
- 6. FC values are based on initial lumen output.
- 7. Gridline spacing is in units of chosen mounting height.



LPW7 LytePro LED Small Wall Sconce

General Description

The Philips Stonco LytePro LED Small Wall Sconce LPW7 combines excellent performance, design and value to meet the needs of the energy and budget conscious. The LPW7 is available for use in downward facing, surface wall mount applications, over recessed j-boxes or where power can be directly fed through back surface, whereby connections splices can be made inside the luminaire housing. Three SKU's are available as in-stock configurations (2-day quick ship). Two standard finishes. 120V button photocell is available in bronze only.

Housing

Die-cast housing houses both the LED and driver assemblies. Design incorporates an integrated heat sink to maximize thermal performance and reliability. Backplate is corrosion free, composite polycarbonate, with built-in level bubble, offers integral interlocking hook and mount design for easy installation.

Mounting

Easy interlocking hook and mount housing/backplate design for easy installation. Mounts over 3.5", 4" octagonal j-boxes and single gang switch boxes (mounted horizontally) or can be directly lagged to surface. Ensure proper steps for gasket/sealing luminaire to surface.

IP Rating

Optical compartment is IP65 rated.

LED Board and Array

Provides up to 82 lm/W at the system level. Standard color temp is 4000K +/- 250K, minimum 70 CRI.

Electrical

Driver efficiency (>90% standard), 120-277V. Temp range: -30°C (-22°F) to 40°C (104°F). Open/short circuit protection. RoHS compliant.

Listings

Product is cETLus listed suitable for Wet Locations. Suitable for use in ambients from -30°C to 40°C (-22°F to 104°F).

Finish

Each luminaire receives a fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) textured polyester powdercoat finish. Two standard colors are available: Dark Grey, and Bronze. Specific options are only available in bronze.

Warranty

LPW7 luminaires, the LED arrays, and the drivers are all covered by a 5-year limited warranty. See philips.com/warranties for details.

LED Performance:

PREDICTED LUMEN DEPRECIATION DATA ^{4,6}			
Ambient Temp. °C	Calculated L70 hrs ⁵	Reported L70 Per TM-21 ⁶	Calculated Lumen Maint. % @60,000 hrs
up to 40°C	>200,000 hrs	>36,000 hrs	97%

4. Calculated performance derived from LED manufacturer's data and engineering design estimates, based on IESNA LM-80 methodology. Actual experience may vary due to field application conditions.

5. L70 is the predicted time when LED performance depreciates to 70% of initial lumen output.

6. Reported per IESNA TM21-11. Published L70 hours limited to 6 times actual LED test hours.



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PHILIPS
Stonco

Wall mount

LytePro LED Sconce

LPW16



Project:

Location:

Cat.No:

Type:

Quantity:

Notes:

The Philips Stonco LytePro LED Small Wall Sconce LPW16 features outstanding value in a compact, architectural design. This wall sconce features state-of-the-art, long-life and maintenance savings, in a combined discreet LED package with high precision over-optic design. This powerful and precise combination offers outstanding energy savings with excellent photometric performance. LPW16 is ideal for entryways and corridors in addition to wall lighting applications requiring strong lateral spacing and forward pattern projection.

Stocked luminaires – Ordering guide (LPW16 products are only available in the following stock luminaire configurations shown)

Catalog Number	Description	Master Pack, Qty	UPC Code
LPW16-58BZ	LPW16, 30W, 530mA, 4000K, 120-277V, Bronze textured paint	6	786034960540
LPW16-51BZPCB	LPW16, 30W, 530mA, 4000K, 120V, Bronze textured paint, w/button photocell	6	786034960557
LPW16-78BZ	LPW16, 40W, 700mA, 4000K, 120-277V, Bronze textured paint	6	786034960502
LPW16-78DGY	LPW16, 40W, 700mA, 4000K, 120-277V, Dark gray textured paint	6	786034960489
LPW16-71BZPCB	LPW16, 40W, 700mA, 4000K, 120V, Bronze textured paint, w/button photocell	6	786034960519

Stocked accessories – Ordering guide (Must be ordered separately)

Catalog Number	Description	Master Pack, Qty	UPC Code
LPWCVRPLT-BZ	LPW Universal wall cover mounting plate, Bronze textured paint	(none)	786034960618

LPW16 LytePro LED Small Wall Sconce

Features

LPW16 wall sconce delivers 3,374 lumens at 36W, with an efficacy of 93 lumens per watt. Other wattages available per charts noted below---

- LP16W-5, 30W LED may effectively replace 70-100W HID luminaires²
- LP16W-7, 40W LED may effectively replace 100-150W HID luminaires²
- 4000K neutral white at 70 CRI (minimum) is standard
- Button photocell available in 120V, bronze luminaires only
- 5-year limited warranty, see philips.com/warranties for specific details

Performance/Specifications (LP16W-7)

Distribution	Type 3
Initial Lumens	3,374
Average Wattage	36
Lumens/Watt	93
BUG Rating*	BI/UO/G1
Luminaire Weight	~6lbs (2.7Kg)

Performance/Specifications (LP16W-5)

Distribution	Type 3
Initial Lumens	2,698
Average Wattage	28
Lumens/Watt	96
BUG Rating	BI/UO/G1
Luminaire Weight	~6lbs (2.7Kg)

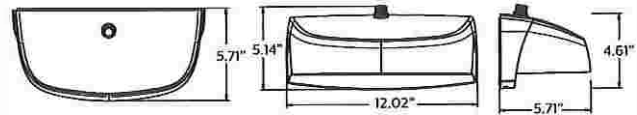
Ratings/Approbations/Certifications

Ingress Protection	IP65 Optical
DLC Listed	DLC QPL
cETLus	Certified for use in wet locations
Rated Ambient Temperature	-40°C (-40°F) to 40°C (104°F)

2. Comparable equivalency to HID and other lamp sources depends on multiple criteria including mounting height, fixture spacing, efficiency, performance and classification of the luminaire being replaced and application lighting criteria required for the given project.

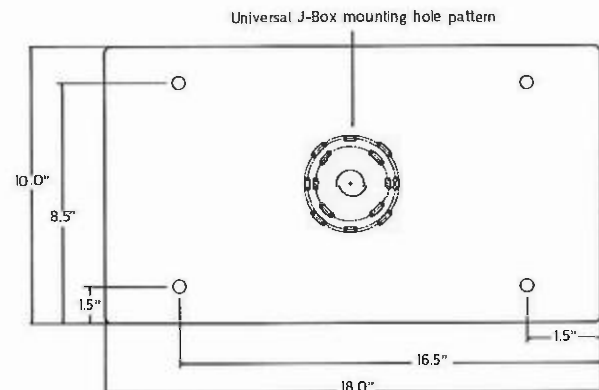
3. PCB shown for placement only, available on specific models only (see ordering guide).

Fixture Dimensions³



Accessory Dimensions (ordered separately)

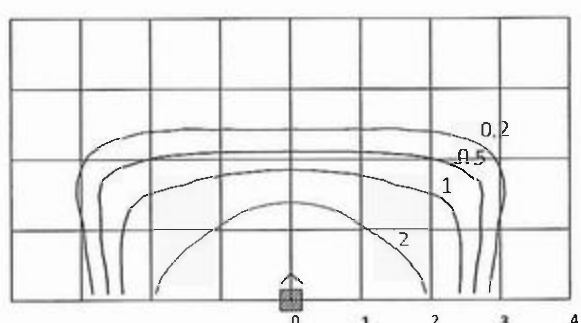
LPWCVRPLT-BZ LPW Universal wall cover mounting plate, 0.08" aluminum, bronze textured paint (used to cover larger pre-existing opening or surfaces, field installed). Offers same J-Box pattern as luminaire or may lagged to wall using (4) knockouts.



Distribution Pattern

LPW16-7 10' MOUNTING HEIGHT			
MOUNTING HEIGHT	8'	10'	12'
MULTIPLIER	1.60	1.0	0.70

- Isolines shown at 2.0, 1.0, 0.5, & 0.2 FC.
- Choose mounting height, Use MULTIPLIER (X) EXISTING FC VALUE= NEW FC VALUE.
- FC values are based on initial lumen output.
- Gridline spacing is in units of chosen mounting height
- For LPW16-5 configuration, scale down by 29%.



LPW16 LytePro LED Small Wall Sconce

General Description

The Philips Stonco LytePro LED Small Wall Sconce LPW16 combines excellent performance, design and value to meet the needs of the energy and budget conscious. The LPW16 is available for use in downward facing, surface wall mount applications, over recessed j-boxes or where power can be directly fed through back surface, whereby connections splices can be made inside the luminaire housing. Five SKU's are available as in-stock configurations only (2-day quick ship).

40W Model: Two standard units are available in two different finishes. 120V button photocell is available in bronze only. 30W Model: Standard units available in bronze only, with and without photocell. 30W model is California Title 24 compliant.

Housing

Die-cast housing houses both the LED and driver assemblies. Design incorporates an integrated heat sink to maximize thermal performance and reliability. Backplate is corrosion free, composite polycarbonate, with built-in level bubble, offers integral interlocking hook and mount design for easy installation.

Mounting

Easy interlocking hook and mount housing/backplate design for easy installation. Mounts over 3.5", 4" octagonal j-boxes and single gang switch boxes or can be directly lagged to surface. Ensure proper steps for gasket/sealing luminaire to surface.

IP Rating

Optical compartment is IP65 rated

LED Board and Array

Provides up to 93 lm/W in LPW16-7 and 96 lm/W in LPW16-5 at the system level. Standard color temp is 4000K +/- 250K, minimum 70 CRI.

Electrical

Driver efficiency (>90% standard). 120-277V. Temp range: -40°C (-40°F) to 40°C (104°F). Open/short circuit protection. Inherent surge protection up to (4KVA). RoHS compliant.

Listings

Product is cETLus listed suitable for Wet Locations. Suitable for use in ambients from -40°C to 40°C (-40°F to 104°F). DesignLights Consortium® qualified. Stocked SKUs of the LPW family are made in China.

Finish

Each luminaire receives a fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) textured polyester powdercoat finish.

Warranty

LPW16 luminaires, the LED arrays, and the drivers are all covered by a 5-year limited warranty. See philips.com/warranties for details.

LED Performance:

PREDICTED LUMEN DEPRECIATION DATA ^{4,6}			
Ambient Temp. °C	Calculated L70 hrs ⁵	Reported L70 Per TM-21 ^{5,6}	Calculated Lumen Maint. % @60,000 hrs
up to 40°C	>200,000 hrs	>60,000 hrs	94.0%

4. Calculated performance derived from LED manufacturer's data and engineering design estimates, based on IESNA LM-80 methodology. Actual experience may vary due to field application conditions.

5. L70 is the predicted time when LED performance depreciates to 70% of initial lumen output.

6. Reported per IESNA TM21-11. Published L70 hours limited to 6 times actual LED test hours.



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LPW16_LytePro_scOnce 02/16 page 3 of 3



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PHILIPS Stonco

Floodlights

General
purpose flood



Project: _____
Location: _____
Cat. No: _____
Type: _____
Qty: _____
Notes: _____

The Philips Stonco LED Floodlights offer energy saving LED technology for long life and reduced maintenance. Versatile and stylish with five different sizes to choose from provides application flexibility for ground mount, wall mount, or pole mount installations. Ideal for sign lighting, building facades, security lighting, and general purpose floodlighting applications.

Ordering guide

example: FL150-NW-G1-T-FL-8-BZ

Luminaire	LED Color	Generation	Mounting	Distribution	Voltage	Finish
<input type="text"/>	NW	G1	<input type="text"/>	FL	8	BZ
FL20 LED Floodlight 20W	NW Neutral White 4000K, 80CRI	G1 Generation1	K1 Knuckle Mount 1/2"NP S male	FL Flood	8 120-277VAC	BZ Bronze
FL40 LED Floodlight 40W						
FL80 LED Floodlight 80W			T2 Trunnion Mount			
FL150 LED Floodlight 150W						
FL300 LED Floodlight 300W						

1. K Knuckle Mount only available with FL20 and FL40.
2. T Trunnion Mount only available with FL80, FL150 and FL300.

LED Wattage and Lumen Values

Neutral White Ordering Codes	Total LEDs	LED Current (mA)	Color Temp. (K)	Average System Wattage ¹	Lumen Output ^{1,2}	Efficacy (LPW)
FL20-NW-G1-K-FL-8-BZ	32	500	4000	20	2122	109
FL40-NW-G1-K-FL-8-BZ	64	1000	4000	39	4433	113
FL80-NW-G1-T-FL-8-BZ	128	2450	4000	79	8856	113
FL150-NW-G1-T-FL-8-BZ	248	4200	4000	146	16,325	112
FL300-NW-G1-T-FL-8-BZ	544	2100	4000	301	34,025	113

1. Wattage and lumen output may vary by +/- 8% due to LED manufacturer forward volt specification and ambient temperature. Wattage shown is average for 120V through 277V input. Actual Wattage may vary by an additional +/- 10% due to actual input voltage.
2. Lumen values based on photometric tests performed in compliance with IESNA LM-79.

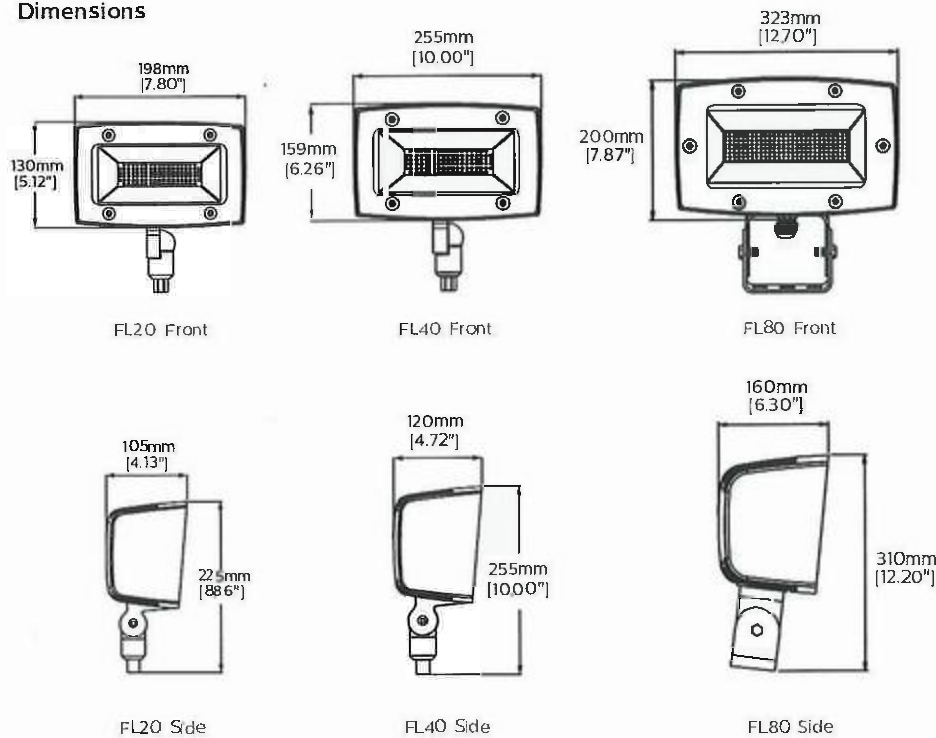
NOTE: Contact outdoorlighting_applications@philips.com for additional photometric tests or information.



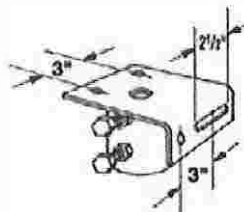
General purpose flood LED

FL20/40/80/150/300

Dimensions

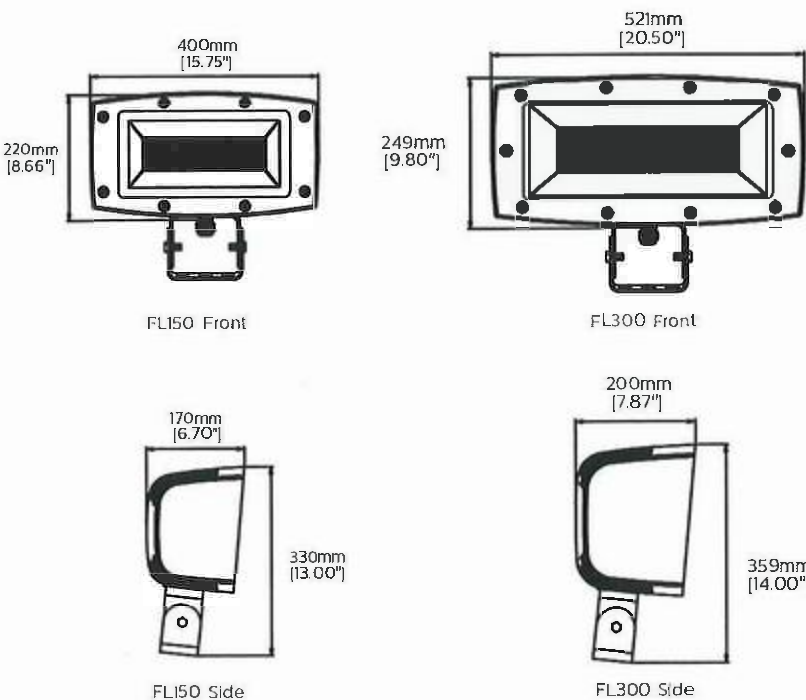


Accessory
(ordered separately,
field installed)



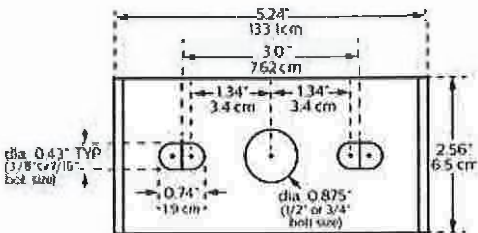
USF10BRZ

Mounting adapter for trunnion, fits
2-3/8" O.D. tenon, bronze finish.



EPA and Weight

Product	Effective Projected Area (EPA-ft ²)			Weight
	0° Aim	45° Aim	90° Aim	
FL20	0.238	0.271	0.316	4.6lbs (2.09kg)
FL40	0.351	0.415	0.500	6.6lbs (2.99kg)
FL80	0.595	0.680	0.798	15lbs (6.8kg)
FL150	0.784	0.915	1.089	20lbs (9.1kg)
FL300	1.199	1.369	1.604	33lbs (14.9kg)



General purpose flood LED

FL20/40/80/150/300

Specifications

Housing and Heat Sink

Single piece die cast aluminum alloy. Housing also acts as a heat sink, designed to ensure high efficacy and superior cooling by natural convection. Air flow pattern always close to LEDs and driver optimizing their efficiency and life. Product does not use any cooling device with moving parts (only passive cooling).

Mounting

Suitable for mounting within 4' (1.2m) of the ground.

Knuckle (K, see Ordering guide): Integral die cast Aluminum adjustable knuckle (K) with 1/2" NPS male threads, made of a lower copper alloy for resistance to corrosion, with locking teeth and bolt to lock in aiming angle. Ships fully assembled, ready to install. Six inch (6" or 152mm) leads exit out of Knuckle for connection by others.

Trunnion (T, see Ordering guide): Integral structural steel adjustable trunnion (T) for direct surface mounting, painted for resistance to corrosion, with bolt to lock in aiming angle. Ships fully assembled, ready to install. Six foot (6' or 1.83m) watertight STW 16 gauge cord exits out of Housing for connection by others, IP66 liquid light connector to seal cord exit point.

Lens

Heat and impact resistant tempered glass lens with one piece silicone gasket surrounding the entire perimeter of the LED light engine and electronics compartment providing an IP66 seal. Lens secured with screws and recessed sleeve washers outside of gasket perimeter. Lens includes silk screen to help reduce glare and for aesthetic purposes.

Light Engine

Composed of 3 main components: LED Module/ Optical System/ Driver. Electrical components are RoHS compliant. LEDs tested by ISO 17025-2005 accredited lab in accordance with IESNA LM-80 guidelines extrapolations in accordance with IESNA TM-21. Metal core substrate ensures greater heat transfer and longer lifespan.

Predicted Lumen Depreciation Data

Ambient Temperature °C	System Current	L ₇₀ per TM21 ^{1,2}	Lumen Maintenance @ 42,000hrs
25°C	4200 mA	>42,000	85%

- L₇₀ is the predicted time when LED performance depreciates to 70% of initial lumen output.
- Calculated per IESNA TM 21-11. Published L₇₀ hours limited to 6 times actual LED test hours.

LED Module

Composed of mid-power performance white LEDs. Color temperature as per ANSI/NEMA bin Neutral White, 4000 Kelvin nominal (3985 +/- 275K or 3710K to 4260K), CRI 80 Min.

Optical System

Flood distribution, optimized for target lumens and a superior lighting uniformity. Photometric performance shall be tested per LM-79 (IESNA) certifying its photometric performance and published in accordance with LM-63.

Driver

High power factor of 90% min. Electronic driver, operating range 50/60 Hz, Class 1 or Class 2

Other Integrated Features

Surge Protection: Each luminaire is provided as standard with surge protector (Philips designed SPI or SPIHV) tested in accordance with ANSI/IEEE C62.45 per ANSI/IEEE C62.41.2 Scenario 1 Category C High Exposure 10kV/10kA waveforms for Line Ground, Line Neutral and Neutral Ground.

Wiring

Insulated internal wiring located inside the housing, silicone seals all places where wiring passes through openings including sealed going into the knuckle or exiting the luminaire for trunnion mount. Due to the inrush current that occurs with electronic drivers, recommend using a time delay or slow blow fuse to avoid unnecessary and unwanted fuse blowing that can occur with fast acting fuses.

Hardware

All exposed screws shall be stainless steel and/or corrosion resistant and captive. All seals and sealing devices are made and/or lined with EPDM and/or silicone and/or rubber.

Finish

Fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) polyester powdercoat textured bronze finish.

LED Products Manufacturing Standard

The electronic components sensitive to electrostatic discharge (ESD) such as light emitting diodes (LEDs) are assembled in compliance with EC61340-5-1 and ANSI/ESD S20.20 standards so as to eliminate ESD events that could decrease the useful life of the product.

Vibration Resistance

Knuckle mounts meet the ANSI C136.31 Luminaire vibration specifications for normal applications (LSG).

Certifications and Compliance

cULus Listed for Canada and USA. DesignLights Consortium qualified. Entire luminaire is rated for operation in ambient temperature of -30°C (-22°F) up to +40°C (+104°F).

IP66 Rating

Entire luminaire including light engine and driver/electrical compartment IP66 rated in all aiming positions including upward aiming floodlighting applications.

Limited Warranty

5-year limited warranty. See philips.com/warranties for details and restrictions. Visit our eCatalog or contact your local sales representative for more information.

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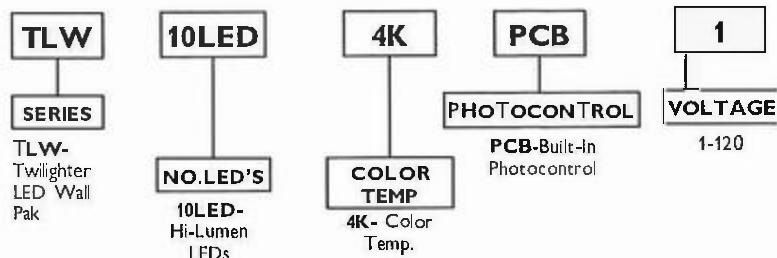
CATALOG NO. _____

TYPE NO. _____ JOB NAME _____

Twilighter LED Wall Pak

ORDERING INFORMATION

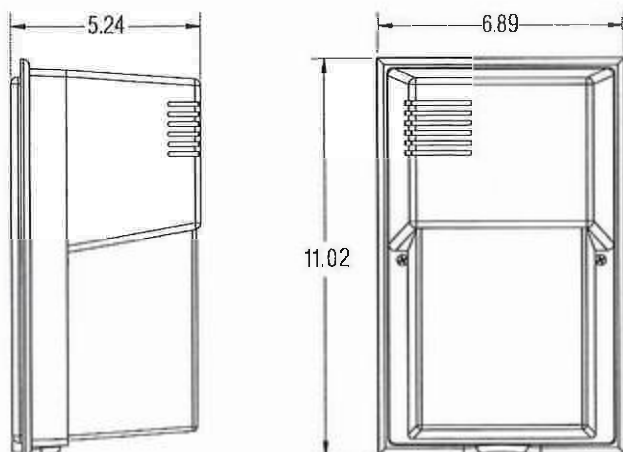
Catalog Number: Example: TLW10LED4KPCB-1



PRODUCT SPECIFICATIONS

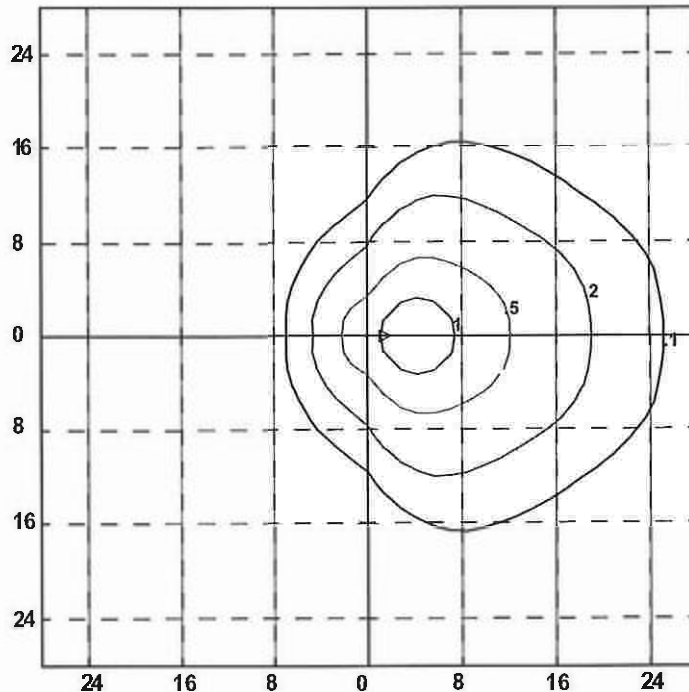
- 13.9 watt high-powered LED array
- 50,000 hour life
- Lightweight, compact design
- Sturdy die-cast aluminum housing
- Architectural bronze UV resistant powder coat finish
- UV stabilized polycarbonate lens/refractor
- UV stabilized polycarbonate front housing
- Continuous silicone rubber gasket between housing and lens/cover
- Energy-efficient, high-powered LED Array
- Provides 707 delivered lumens, LM79
- Excellent heat management for long life
- Efficacy: 50.9 lumens per watt (LPW)
- CRI: 86
- 4386 CCT
- Operating temperature: -25°C (-13°F) to 35°C (95°F)
- Voltage: 120V 50/60Hz
- Factory-installed photocontrol
- UL Listed for wet locations
- 5-year warranty

TECHNICAL INFORMATION



Twilighter LED Wall Pak

PHOTOMETRIC DATA



Philips Stonco LED Twilighter Wall Pak
Photometric Filename: TLW10LED4K.IES

Characteristics

Horizontal Footcandles
Mounting Height = 8 Ft.
Light Loss Factor = 1.00
Lumens Per Lamp = N.A. (absolute photometry)
Luminaire Lumens = 710
Mounting Height = 8.00 Ft.
Maximum Calculated Value = 1.39 Fc
Arrangement: Single

Footcandle Correction

Multiply the following factors times the footcandle values for changes in mounting height.

To change from 8'

New Height	6'	7'	8'	9'	10'	12'
Factor	1.78	1.31	1.00	.79	.64	.44



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www.philips.com/luminaires


05/13

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Somerset, NJ 08873
Phone: 855-486-2216

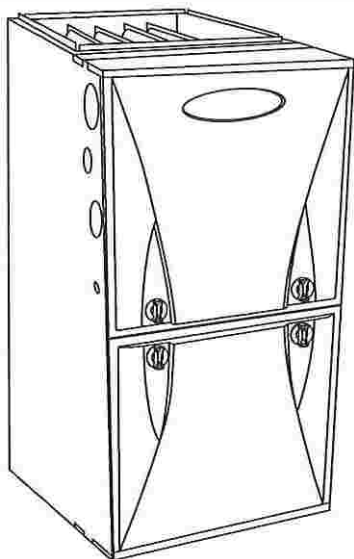
Philips Lighting Company
281 Hillmount Road
Markham ON, Canada L6C 2S3
Phone: 800-668-9008

**59SP5A
Performance™ Boost, Single-Stage
4-Way Multipoise
Condensing Gas Furnace
Series 100**



turn to the experts 

Product Data



A11263

The 59SP5A Multipoise Performance™ Boost Condensing Gas Furnace features SEER-boosting year-round electrical efficiency when paired with a compatible condensing unit. Energy efficiency is at the heart of this furnace with up to 96.5% AFUE gas efficiency and the electrically-efficient basic ECM blower motor. This gas furnace also features 4-way multipoise installation flexibility, and is available in six model sizes. The 59SP5A can be vented for direct vent/two-pipe, ventilated combustion air, or single-pipe applications. All units meet California Air Quality Management District emission requirements, are design certified in Canada, and are certified for mobile/manufactured home use.

STANDARD FEATURES

- Quiet operation. Compare for yourself at HVACpartners.com.
- Most sizes meet ENERGY STAR® Version 4.0 criteria for gas furnaces: 95+ AFUE; AMACF electrical rating; 2% or less cabinet airflow leakage. *See table on Page 2.*
- High-efficiency basic ECM multiple-speed blower motor for electrically efficient operation all year long in heating, cooling and continuous fan operation.
- Humidistat™ Control compatible; dehumidification input for better comfort.
- SmartEvap™ technology helps control humidity levels in the home when used with a compatible humidity control system.
- ComfortFan™ technology allows control of continuous fan speed from a compatible thermostat.
- Ideal height 35" (889 mm) cabinet; short enough for taller coils, but still allows enough room for service.
- Silicon Nitride Power Heat™ Hot Surface Igniter.
- External Media Filter Cabinet included.
- 4-way multipoise design for upflow, downflow or horizontal installation, with unique vent elbow and optional venting through-the-cabinet downflow venting capability.
- Single-speed inducer motor, and single-stage gas valve.
- Self diagnostics with SuperBrite LED.
- Approved for Twinning applications with accessory kit (60-14 through 120-22 models, only).
- Approved for Manufactured Housing/Mobile Home applications with MH accessory kit.
- Adjustable blower speed for heating, cooling and continuous fan
- Aluminized-steel primary heat exchanger.
- Stainless-steel condensing secondary heat exchanger.
- Propane convertible (see Accessory list).
- Factory-configured ready for upflow applications.
- Fully-insulated casing including blower section.
- Convenient Air Purifier and Humidifier connections.
- Direct-vent/sealed combustion, single-pipe venting or ventilated combustion air.
- Installation flexibility: (sidewall or vertical vent).
- Residential installations may be eligible for consumer financing through the Retail Credit Program.
- Certified to leak 2% or less of nominal air conditioning CFM delivered when pressurized to 1-in. water column with all present air inlets, air outlets, and condensate drain port(s) sealed.

Performance
SERIES



Select Models



SAP ORDERING NO.	CASING DIMENSIONS (IN.)			RATED HEATING OUTPUT†			HEATING AIRFLOW		COOLING CFM @ 0.5 ESP (in. W.C.)	MOTOR HP SPEED	MEDIA CABINET SUPPLIED (IN.)
	H	D	W	BTUH	AFUE	ENERGY STAR	HEATING CFM	HEATING ESP (in. W.C.)			
59SP5A040E14-10	35	29.5	14.2	39,000	96.5%	✓	695	0.1	925	1/2 - 5	16
59SP5A040E17-12	35	29.5	17.5	39,000	96.5%	✓	705	0.1	1085	1/2 - 5	16
59SP5A060E14-12	35	29.5	14.2	58,000	95.5%	✓	940	0.12	1090	1/2 - 5	16
59SP5A060E17-14	35	29.5	17.5	58,000	96.5%	✓	1000	0.12	1505	3/4 - 5	16
59SP5A080E17-16	35	29.5	17.5	78,000	96.5%	✓	1360	0.15	1610	3/4 - 5	16
59SP5A080E21-20	35	29.5	21.0	78,000	96.5%	✓	1360	0.15	2015	1 - 5	20
59SP5A100E21-20	35	29.5	21.0	97,000	96.3%	-	1700	0.2	2110	1 - 5	20
59SP5A120E24-22	35	29.5	24.0	117,000	96.5%	-	2125	0.2	2055	1 - 5	24

† Capacity in accordance with DOE test procedures. Ratings are position dependent. See rating plate.

‡ Heating CFM at factory default blower motor heating tap settings.

ESP — External Static Pressure

✓ Meets ENERGY STAR criteria

FEATURES AND BENEFITS

SmartEvap™ Technology — When paired with a compatible thermostat, this dehumidification feature overrides the cooling blower off-delay when there is a call for dehumidification. By deactivating the blower off-delay, SmartEvap technology prevents condensate that remains on the coil after a dehumidification cycle from re-humidifying throughout the home. This results in reduced humidity and a more comfortable indoor environment for the homeowner.

Unlike competitive systems, SmartEvap technology only overrides the cooling blower off-delay when humidity control is needed. Once humidity is back in control, SmartEvap re-enables the energy-saving cooling blower off-delay.

ComfortFan™ Technology — Sometimes the constant fan setting on a standard furnace system can actually reduce homeowner comfort by providing too much or too little air! Comfort Fan technology improves comfort all year long by allowing the homeowner to select the continuous fan speed of their choice using a compatible thermostat.

HYBRID HEAT® Dual Fuel System — This system can provide more control over your monthly energy bills by automatically selecting the most economical method of heating. With HYBRID HEAT components, our system automatically switches between the gas furnace and the electric heat pump as outside temperatures change to maintain greater efficiency and comfort than with any traditional single-source heating system. The heat pump also delivers high-efficiency cooling in the summer.

Power Heat™ Igniter — Carrier's unique SiN igniter is not only physically robust but it is also electrically robust. It is capable of running at line voltage and does not require complex voltage regulators as do other brands. This unique feature further enhances the gas furnace reliability and continues Carrier's tradition of technology leadership and innovation in providing a reliable and durable product.

Performance™ ECM Blower Motor — This basic ECM, or electronically commutated motor, can provide an efficiency enhancement for select Carrier air conditioner or heat pump systems. It uses less electrical power than its PSC counterpart and also has a wider range of speeds.

Reliable Heat Exchanger Design — The aluminized steel, clam shell primary heat exchanger was re-engineered to achieve greater efficiency out of a smaller size. The first two passes of the heat exchanger are based on the current 80% product, a design with more than ten years of field-proven performance and success. These innovations, paired with the continuation of a crimped, no-weld seam create an efficient, robust design for this essential component.

The condensing heat exchanger, a stainless steel fin and tube design, is positioned in the furnace to extract additional heat. Stainless steel coupling box componentry between heat exchangers has exceptional corrosion resistance in both natural gas and propane applications.

Media Filter Cabinet — Enhanced indoor air quality in the home is made easier with our media filter cabinet—a standard accessory on all deluxe furnaces. When installed as a part of the system, this cabinet allows for easy and convenient addition of a Carrier high efficiency air filter.

4-Way Multipoise Design — One model for all applications — there is no need to stock special downflow or horizontal models when one unit will do it all. The new heat exchanger design allows these units to achieve the certified AFUE in all positions.

Direct or Single-pipe Venting, or Optional Ventilated Combustion Air — This furnace can be installed as a 2-pipe (Direct Vent) furnace, in an optional ventilated combustion air application, or in single-pipe, non-direct vent applications. This provides added flexibility to meet diverse installation needs.

Sealed Combustion System — This furnace brings in combustion air from outside the furnace, which results in especially quiet operation. By sealing the entire combustion vestibule, the entire furnace can be made quieter, not just the burners.

Insulated Casing — Foil-faced insulation in the heat exchanger section of the casing minimizes heat loss. The acoustical insulation in the blower compartment reduces air and motor noise for quiet operation.

Monoport Burners — The burners are specially designed and finely tuned for smooth, quiet combustion and economical operation.

Bottom Closure — Factory-installed for side return; easily removable for bottom return. The multi-use bottom closure can also serve for roll-out protection in horizontal applications, and act as the bottom closure for the optional return air base accessory.

Blower Access Panel Switch — Automatically shuts off 115-v power to furnace whenever blower access panel is opened.

Quality Registration — Our furnaces are engineered and manufactured under an ISO 9001 registered quality system.

Certifications — This furnace is CSA (AGA and CGA) design certified for use with natural and propane gases. The furnace is factory-shipped for use with natural gas. A CSA listed gas conversion kit is required to convert furnace for use with propane gas. The efficiency is AHRI efficiency rating certified. This furnace meets California Air Quality Management District emission requirements.

SPECIFICATIONS

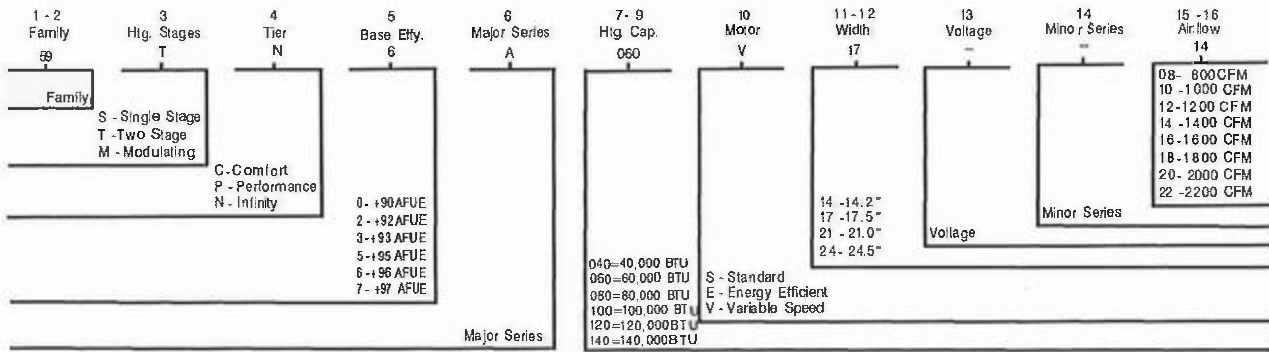
Heating Capacity and Efficiency		040-10	040-12	060-12	060-14	080-16	080-20	100-20	120-22
Input	High Heat (BTUH)	40,000	40,000	60,000	60,000	80,000	80,000	100,000	120,000
Output									117,000
Certified Temperature Rise Range °F (°C)	High Heat	40-70 (22-39)	40-70 (22-39)	45-75 (25-42)	40-70 (22-39)	40-70 (22-39)	40-70 (22-39)	40-70 (22-39)	40-70 (22-39)
Airflow Capacity and Blower Data		040-10	040-12	060-12	060-14	080-16	080-20	100-20	120-22
Rated External Static Pressure (in. w.c.)	Heating	0.10	0.10	0.12	0.12	0.15	0.15	0.20	0.20
	Cooling	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Airflow Delivery @ Rated ESP (CFM)	High Heat	695	705	940	1000	1360	1360	1700	2125
	Cooling	925	1085	1090	1505	1610	2015	2110	2055
Cooling Capacity (tons) @ 400, 350 CFM/ton	CFM/ton	2	2.5	2.5	3.5	4	5	5	5
	CFM/ton	2.5	3	3	4	4.5	5.5	6	6
Direct-Drive Motor Type	Electronically Commutated Motor (ECM)								
Direct-Drive Motor HP		1/2	1/2	1/2	3/4	3/4	1	1	1
Motor Full Load Amps		6.8	6.8	6.8	8.4	8.4	10.9	10.9	10.9
RPM Range	600-1200								
Speed Selections	5								
Blower Wheel Dia x Width	in.	11 x 7	11 x 8	11 x 7	11 x 8	11 x 8	11 x 10	11 x 10	11 x 11
Air Filtration System	Factory Supplied Media Cabinet Field Supplied Filter								
Filter Used for Certified Watt Data	KGA WF1506UFR								
Electrical Data		040-10	040-12	060-12	060-14	080-16	080-20	100-20	120-22
Input Voltage	Volts-Hertz-Phase	115-60-1							
Operating Voltage Range	Min-Max	104-127							
Maximum Input Amps	Amps	7.4	7.4	7.5	9.1	9.1	11.6	11.7	11.7
Unit Ampacity	Amps	10.3	10.3	10.4	12.4	12.4	15.5	15.6	15.6
Minimum Wire Size	AWG	14	14	14	14	14	12	12	12
Maximum Wire Length @ Minimum Wire Size	Feet	36	36	35	30	30	37	36	36
	(M)	(11.0)	(11.0)	(10.7)	(9.1)	(9.1)	(11.3)	(11.0)	(11.0)
Maximum Fuse/Ckt Bkr (Time-Delay Type Recommended)	Amps	15	15	15	15	15	20	20	20
Transformer Capacity (24vac output)	40VA								
External Control Power Available	Heating	27.9VA							
	Cooling	34.6VA							
Controls		040-10	040-12	060-12	060-14	080-16	080-20	100-20	120-22
Gas Connection Size	1/2" - NPT								
Burners (Monoport)		2	2	3	3	4	4	5	6
Gas Valve (Redundant)	Manufacturer	White Rodgers							
Minimum Inlet Gas pressure (in. wc)		4.5							
Maximum Inlet Gas pressure (in. wc)		13.6							
Gas Conversion Kit - Natural to Propane		KGANP50011SP							
Gas Conversion Kit - Propane to Natural		KGAPN42011SP							
Manufactured (Mobile) Home Kit		KGAMH0601 KT							
Ignition Device		Silicon Nitride							
Limit Control		165	180	165	180	170	200	180	160
Heating Blower Control (Heating Off-Delay)	Adjustable: 90, 120, 150, 180 seconds								
Cooling Blower Control (Time Delay Relay)	90 seconds								
Communication System	none								
Thermostat Connections	Com 24V, R, W, G, Y/Y2, DHUM, Y1								
Accessory Connections	EAC (115vac); HUM (24vac); 1-stg AC (via Y/Y2)								

* See Accessory List for part numbers available.

59SP5A

MODEL NUMBER NOMENCLATURE

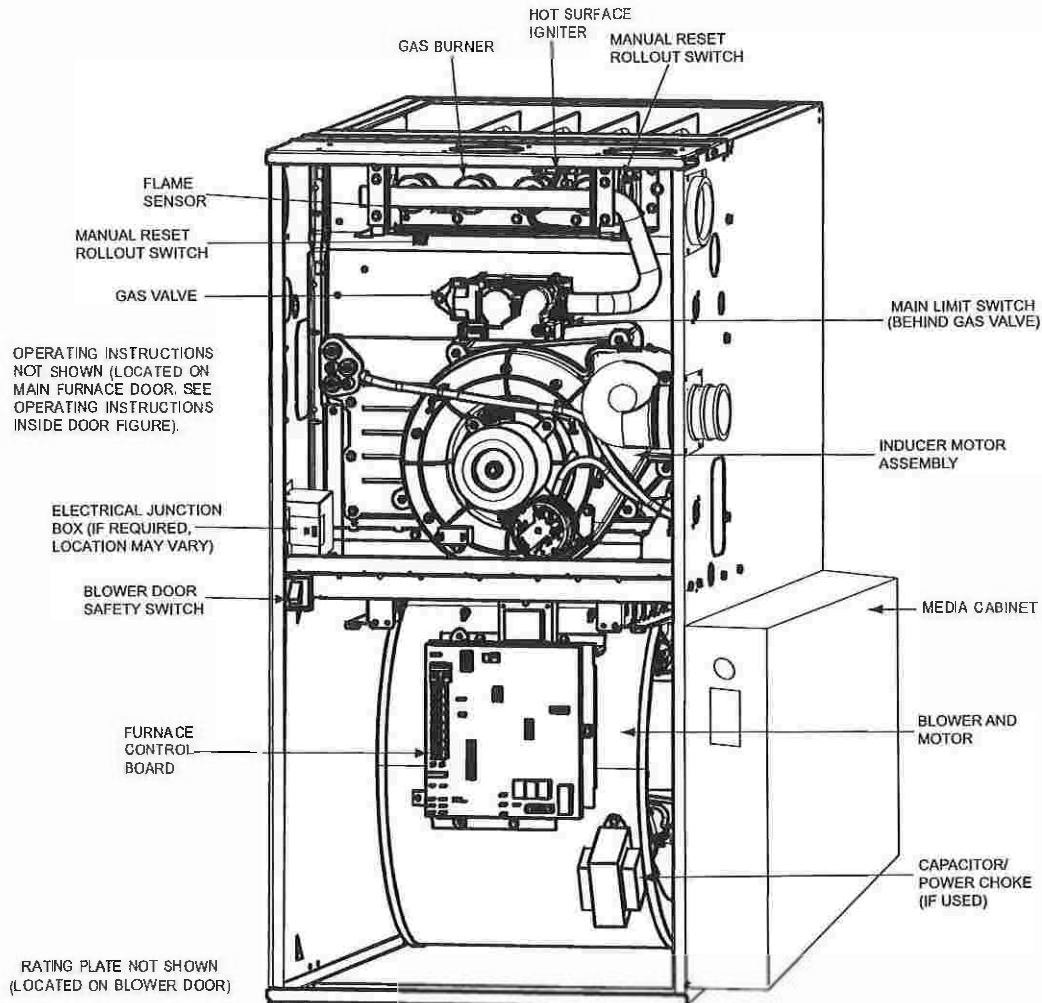
Example of Model Number



Not all families have these models.

A12373

FURNACE COMPONENTS



REPRESENTATIVE DRAWING ONLY, SOME MODELS MAY VARY IN APPEARANCE.

A11408

ACCESSORIES

DESCRIPTION	PART NUMBER	040-10	060-12	040-12	060-14	080-16	080-20	100-20	120-22
Venting Accessories									
Vent Kit - Through the Cabinet	KGADC0101 BVC	•	•	•	•	•	•	•	•
Vent Terminal - Concentric - 2" (51 mm)	KGAVT0701 CVT	See Venting Tables							
Vent Terminal - Concentric - 3" (76 mm)	KGAVT0801 CVT								
Vent Terminal Bracket - 2" (51 mm)	KGAVT0101 BRA								
Vent Terminal Bracket - 3" (76 mm)	KGAVT0201 BRA								
Vent Kit -- Rubber Coupling	KGAAC0101 RVC	See Venting Tables							
Condensate Drainage Accessories									
Freeze Protect Kit - Heat Tape	KGAHT0101 CFP	•	•	•	•	•	•	•	•
CPVC to PVC Drain Adapters - 1/2" CPVC to 3/4" PVC	KGAAD0110 PVC	•	•	•	•	•	•	•	•
Horizontal Trap Grommet - Direct Vent	KGACK0101 HCK	All DV Horizontal							
Condensate Neutralizer Kit	P908--0001	•	•	•	•	•	•	•	•
External Trap Kit	KGAE0201 ETK	•	•	•	•	•	•	•	•
Ductwork Adapter Accessories									
Furnace Base Kit for Combustible Floors	KGASB0201 ALL	•	•	•	•	•	•	•	•
Coil Adapter Kits -- No Offset	KGADA0101 ALL	•	•	•	•	•	•	•	•
Coil Adapter Kits -- Single Offset	KGADA0201 ALL	•	•	•	•	•	•	•	•
Coil Adapter Kits -- Double Offset	KGADA0301 ALL	•	•	•	•	•	•	•	•
Return Air Base (Upflow Applications) 14.0--in. wide	KGARP0301 B14	•	•						
Return Air Base (Upflow Applications) 17.5--in. wide	KGARP0301 B17			•	•	•			
Return Air Base (Upflow Applications) 21.0--in. wide	KGARP0301 B21						•	•	
Return Air Base (Upflow Applications) 24.5--in. wide	KGARP0301 B24								•
IAQ Device Duct Adapters 20.0--in. IAQ to 16 in. Side Return	KGAAD0101 MEC	20"x25" IAQ Devices							
IAQ Device Duct Adapters 24.0--in. IAQ to 16 in. Side Return	KGAAD0201 MEC	24"x25" IAQ Devices							
Gas Conversion Accessories									
Mobile Home Kit	KGAMH0601 KIT	•	•	•	•	•	•	•	•
Gas Conversion Kit - Nat to LP	KGANP50011 SP	•	•	•	•	•	•	•	•
Gas Conversion Kit - LP to Nat	KGAPN42011 SP	•	•	•	•	•	•	•	•
Gas Orifice Kit - #42 (Nat Gas)	LH32DB207	•	•	•	•	•	•	•	•
Gas Orifice Kit - #43 (Nat Gas)	LH32DB202	•	•	•	•	•	•	•	•
Gas Orifice Kit - #44 (Nat Gas)	LH32DB200	•	•	•	•	•	•	•	•
Gas Orifice Kit - #45 (Nat Gas)	LH32DB205	•	•	•	•	•	•	•	•
Gas Orifice Kit - #46 (Nat Gas)	LH32DB208	•	•	•	•	•	•	•	•
Gas Orifice Kit - #47 (Nat Gas)	LH32DB078	•	•	•	•	•	•	•	•
Gas Orifice Kit - #48 (Nat Gas)	LH32DB076	•	•	•	•	•	•	•	•
Gas Orifice Kit - #54 (LP)	LH32DB203	•	•	•	•	•	•	•	•
Gas Orifice Kit - #55 (LP)	LH32DB201	•	•	•	•	•	•	•	•
Gas Orifice Kit - #56 (LP)	LH32DB206	•	•	•	•	•	•	•	•
Gas Orifice Kit - 1.25mm (LP)	LH32DB209	•	•	•	•	•	•	•	•
Gas Orifice Kit - 1.30mm (LP)	LH32DB210	•	•	•	•	•	•	•	•
Control Accessories									
Twining Kit	KGATW0701 HSI				•	•	•	•	•
IAQ Accessories									
Filter Pack (6 pack) -- Washable - 16x25x1 (406x635x25 mm)	KGAWF1306 UFR	•	•	•	•	•	•	•	•
Filter Pack (6 pack) -- Washable - 24x25x1 (610x635x25 mm)	KGAWF1506 UFR	•	•	•	•	•	•	•	•
EZ-Flex Filter - 16" (406 mm)	EXPXXFIL0016	Use with EZXCAB--1016							
EZ-Flex Filter - 20" (508 mm)	EXPXXFIL0020	Use with EZXCAB--1020							
EZ-Flex Filter - 24" (610 mm)	EXPXXFIL0024	Use with EZXCAB--1024							
EZ-Flex Filter with End Caps-16" (406 mm)	EXPXXUNV0016	Use with EZXCAB--1016							
EZ-Flex Filter with End Caps - 20" (508 mm)	EXPXXUNV0020	Use with EZXCAB--1020							
EZ-Flex Filter with End Caps- 24" (610 mm)	EXPXXUNV0024	Use with EZXCAB--1024							
Cartridge Media Filter - 16" (406 mm)	FILXXCAR0016	Use with FILCABXL--1016							
Cartridge Media Filter - 20" (508 mm)	FILXXCAR0020	Use with FILCABXL--1020							
Cartridge Media Filter - 24" (610 mm)	FILXXCAR0024	Use with FILCABXL--1024							
Carrier Performance Air Purifier - 16x25 (508x635 mm)	PGAPXX1625	Up to 1600 CFM							
Carrier Performance Air Purifier - 20x25 (508x635 mm)	PGAPXX2025	Up to 2000 CFM							
Carrier Performance Air Purifier Repl. Filter- 16x25 (406x635 mm)	PGAPAXXCAR 1625	GAPAXXC1625							
Carrier Performance Air Purifier Repl. Filter- 20x25 (508x635 mm)	PGAPAXXCAR2025	GAPAXXC2025							

• = Used with the model furnace

59SP5A

AIR DELIVERY - CFM (BOTTOM RETURN WITH FILTER)

UNIT SIZE	RETURN-AIR CONNECTION	SPEED TAPS ^{2, 3}	EXTERNAL STATIC PRESSURE (IN.W.C.)									
			0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
040-10	SIDE/BOTTOM	Gray	1120	1080	1030	980	925	875	820	760	690	630
		Yellow	880	845	810	780	740	710	680	640	615	570
		Blue	695	665	620	575	535	495	455	420	370	280
		Orange	640	595	540	495	460	420	370	310	260	230
		Red	570	525	475	425	385	330	255	220	- ⁶	- ⁶
040-12	SIDE/BOTTOM	Gray	1255	1220	1175	1130	1085	1040	990	940	880	825
		Yellow	940	905	870	840	805	770	735	695	665	630
		Blue	705	670	630	575	540	500	455	410	380	325
		Orange	580	535	480	425	380	335	290	235	- ⁶	- ⁶
		Red	555	485	425	375	330	280	215	- ⁶	- ⁶	- ⁶
060-12	SIDE/BOTTOM	Gray	1265	1225	1185	1140	1090	1030	975	920	850	760
		Yellow	1115	1085	1060	1030	1000	970	930	880	810	715
		Orange	1000	970	940	910	880	845	815	770	735	695
		Blue	945	915	885	855	820	785	745	705	675	635
		Red	770	740	700	660	620	575	540	500	455	415
060-14	SIDE/BOTTOM	Gray	1720	1670	1620	1565	1505	1440	1375	1295	1220	1135
		Yellow	1325	1285	1255	1220	1185	1145	1115	1075	1040	1000
		Blue	1010	970	925	875	835	785	745	690	660	620
		Orange	1160	1115	1080	1045	1000	960	920	875	840	785
		Red	785	715	655	595	530	490	435	385	340	285
080-16	SIDE/BOTTOM	Gray	1810	1770	1720	1665	1610	1540	1475	1400	1315	1235
		Yellow	1535	1500	1475	1435	1405	1370	1340	1310	1245	1160
		Blue	1380	1340	1305	1270	1240	1200	1165	1130	1090	1050
		Orange	1180	1130	1095	1060	1015	975	935	895	850	800
		Red	1100	1045	1010	970	920	885	845	790	745	690
080-20	BOTTOM or TWO-SIDES ^{4, 5}	Gray	2290	2225	2155	2090	2015	1930	1845	1750	1640	1515
		Yellow	1810	1760	1725	1685	1640	1600	1555	1520	1480	1415
		Blue	1385	1340	1285	1240	1200	1140	1090	1050	995	950
		Orange	1560	1520	1475	1430	1385	1335	1295	1240	1200	1150
		Red	1055	985	910	860	795	750	680	615	565	495
100-20	BOTTOM or TWO-SIDES ^{4, 5}	Gray	2340	2295	2250	2195	2110	2030	1935	1835	1725	1605
		Yellow	1950	1900	1855	1800	1755	1705	1655	1605	1560	1485
		Blue	1750	1700	1650	1605	1555	1500	1455	1395	1350	1300
		Orange	1570	1520	1460	1410	1350	1300	1240	1195	1140	1095
		Red	1350	1280	1225	1155	1105	1045	1000	950	895	830
120-22	BOTTOM or TWO-SIDES ^{4, 5}	Gray	2275	2230	2185	2130	2055	1950	1825	1710	1610	1500
		Yellow	1875	1820	1770	1720	1660	1600	1550	1505	1450	1390
		Blue	2170	2125	2075	2025	1975	1900	1790	1695	1590	1470
		Orange ³	1475	1420	1350	1280	1215	1165	1105	1050	995	930
		Red ³	1625	1565	1505	1445	1385	1325	1275	1225	1170	1130

NOTE:

1. A filter is required for each return-air inlet. Airflow performance includes a 3/4-in. (19 mm) washable filter media such as contained in a factory-authorized accessory filter rack. See accessory list. To determine airflow performance without this filter, assume an additional 0.1 in. w.c. available external static pressure.
2. **ADJUST THE BLOWER SPEED TAPS AS NECESSARY FOR THE PROPER AIR TEMPERATURE RISE FOR EACH INSTALLATION.**
3. Shaded areas indicate that this airflow range is **BELOW THE RANGE ALLOWED FOR HEATING OPERATION. THESE AIRFLOW RANGES MAY ONLY BE USED FOR COOLING.**
4. Airflows over 1800 CFM require bottom return, two-side return, or bottom and side return. A minimum filter size of 20" x 25" (508 x 635 mm) is required.
5. For upflow applications, air entering from one side into both the side of the furnace and a return air base counts as a side and bottom return.
6. The "-" entry indicates an unstable operating condition.

MAXIMUM EQUIVALENT VENT LENGTH - FT. (M)

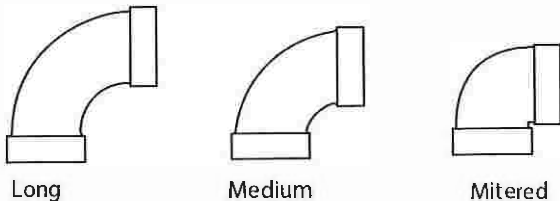
Table 1 – Maximum Equivalent Vent Length - Ft. (M)
0 to 4500 Ft. (0 to 1370 M) Altitude

NOTE: Maximum Equivalent Vent Length (MEVL) includes standard and concentric vent termination and does NOT include elbows.
Use Table 2 - Deductions from Maximum Equivalent Vent Length to determine allowable vent length for each application.

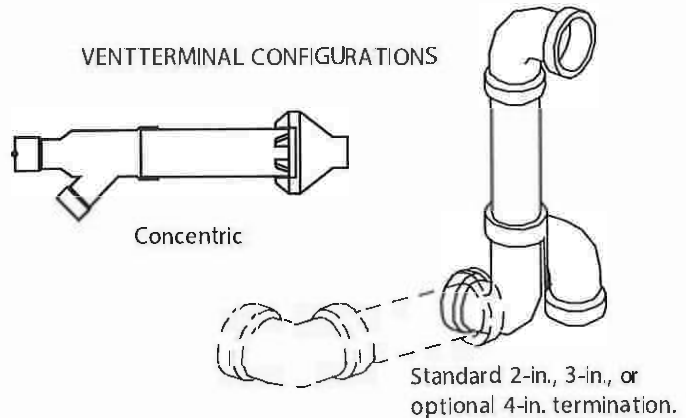
Altitude FT (M)	Unit Size BTU/Hr	DIRECT VENT (2-PIPE) AND NON-DIRECT VENT (1-PIPE)									
		Vent Pipe Diameter (in.) ¹									
		1-1/2		2		2-1/2		3		4	
0 to 2000 (0 to 610)	40,000 ³	50	(15.2)	210	(64.0)	250	(76.2)	NA ²		NA	
	60,000	30	(9.1)	135	(41.1)	235	(71.6)	265	(80.8)	NA	
	80,000	20	(6.1)	70	(21.3)	175	(53.3)	235	(71.6)	265	(80.8)
	100,000	NA		25	(7.6)	110	(33.5)	235	(71.6)	265	(80.8)
	120,000	NA		NA		15	(4.6)	100	(30.5)	250	(76.2)
	140,000 ⁴	NA		NA		10	(3.0)	90	(27.4)	210	(64.0)
2001 to 3000 (610 to 914)	40,000	45	(13.7)	198	(60.4)	232	(70.7)	NA		NA	
	60,000	27	(8.2)	127	(38.7)	222	(67.7)	250	(76.2)	NA	
	80,000	17	(5.2)	64	(19.5)	165	(50.3)	222	(67.7)	249	(75.9)
	100,000	NA		22	(6.7)	104	(31.7)	223	(68.0)	250	(76.2)
	120,000	NA		NA		11	(3.4)	93	(28.3)	237	(72.2)
	140,000 ⁴	NA		NA		NA		80	(24.4)	185	(56.4)
3001 to 4000 (914 to 1219)	40,000	39	(11.9)	184	(56.1)	214	(65.2)	NA		NA	
	60,000	23	(7.0)	119	(36.3)	210	(64.0)	235	(71.6)	NA	
	80,000	15	(4.6)	59	(18.0)	155	(47.2)	210	(64.0)	232	(70.7)
	100,000	NA		19	(5.8)	98	(29.9)	211	(64.3)	236	(71.9)
	120,000	NA		NA		8	(2.4)	86	(26.2)	224	(68.3)
	140,000 ⁴	NA		NA		NA		79	(24.1)	158	(48.2)
4001 to 4500 (1219 to 1370)	40,000	36	(11.0)	177	(53.9)	205	(62.5)	NA		NA	
	60,000	21	(6.4)	115	(35.1)	204	(62.2)	228	(69.5)	NA	
	80,000	14	(4.3)	56	(17.1)	150	(45.7)	202	(61.6)	224	(68.3)
	100,000	NA		17	(5.2)	94	(28.7)	205	(62.5)	229	(69.8)
	120,000	NA		NA		NA		83	(25.3)	217	(66.1)
	140,000 ⁴	NA		NA		NA		69	(21.0)	146	(44.5)

NOTES: See notes at end of venting tables.
See Table 3 for altitudes over 4500 ft. (1370 M)

ELBOW CONFIGURATIONS



VENT TERMINAL CONFIGURATIONS



A13110

Table 2 – Deductions from Maximum Equivalent Vent Length - Ft. (M)

Pipe Diameter (in):	1-1/2		2		2-1/2		3		4	
Mitered 90° Elbow	8	(2.4)	8	(2.4)	8	(2.4)	8	(2.4)	8	(2.4)
Medium Radius 90° Elbow	5	(1.5)	5	(1.5)	5	(1.5)	5	(1.5)	5	(1.5)
Long Radius 90° Elbow	3	(0.9)	3	(0.9)	3	(0.9)	3	(0.9)	3	(0.9)
Mitered 45° Elbow	4	(1.2)	4	(1.2)	4	(1.2)	4	(1.2)	4	(1.2)
Medium Radius 45° Elbow	2.5	(0.8)	2.5	(0.8)	2.5	(0.8)	2.5	(0.8)	2.5	(0.8)
Long Radius 45° Elbow	1.5	(0.5)	1.5	(0.5)	1.5	(0.5)	1.5	(0.5)	1.5	(0.5)
Tee	16	(4.9)	16	(4.9)	16	(4.9)	16	(4.9)	16	(4.9)
Concentric Vent Termination	NA		0		0		0		NA	
Standard Vent Termination	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)

Venting System Length Calculations

The Total Equivalent Vent Length (TEVL) for **EACH** combustion air or vent pipe equals the length of the venting system, plus the equivalent length of elbows used in the venting system from Table 2.

Standard vent terminations or factory accessory concentric vent terminations count for zero deduction.

See vent system manufacturer's data for equivalent lengths of flexible vent pipe or other termination systems. **DO NOT ASSUME** that one foot of flexible vent pipe equals one foot of straight PVC/ABS DWV vent pipe.

Compare the Total Equivalent Vent Length to the Maximum Equivalent Vent Lengths in Tables 1 and 3.

Example 1

A direct-vent 60,000 Btuh furnace installed at 2100 ft (640 M). Venting system includes, **FOR EACH PIPE**, 100 feet (30 M) of vent pipe, 95 feet (28 M) of combustion air inlet pipe, (3) 90° long radius elbows, (2) 45° long radius elbows and a factory accessory concentric vent kit.

Can this application use 2-in. (50 mm ND) PVC/ABS DWV vent piping?

Measure the required linear length of air inlet and vent pipe; insert the longest of the two here:	100 ft	Use length of the longer of the vent or air inlet piping system
Add equiv length of (3) 90° long-radius elbows (use the highest number of elbows for either the vent or inlet pipe)	3 x 3 ft = 9 ft	From Table 2
Add equiv length of (2) 45° long-radius elbows (use the highest number of elbows for either the vent or inlet pipe)	2 x 1.5 ft = 3 ft	From Table 2
Add equiv length of vent termination	0 ft.	From Table 2
Add correction for flexible vent pipe, if any	0 ft.	From Vent Manufacturer's instructions; zero for PVC/ABS DWV
Total Equivalent Vent Length (TEVL)	112 ft.	Add all of the above lines
Maximum Equivalent Vent Length (MEVL)	127 ft.	For 2" pipe from Table 1
Is TEVL less than MEVL?	YES	Therefore, 2" pipe may be used

Example 2

A direct-vent 60,000 Btuh furnace installed at 2100 ft (640 M). Venting system includes, **FOR EACH PIPE**, 100 feet (30 M) of vent pipe, 95 feet (28 M) of combustion air inlet pipe, (3) 90° long radius elbows, and a polypropylene concentric vent kit. Also includes 20 feet (6.1 M) of flexible polypropylene vent pipe, included within the 100 feet (30 M) of vent pipe.

Assume that one meter of flexible 60 mm or 80 mm polypropylene pipe equals 1.8 meters of PVC/ABS pipe. **VERIFY FROM VENT MANUFACTURER'S INSTRUCTIONS.**

Can this application use 60 mm (O.D.) polypropylene vent piping? If not what size piping can be used?

Measure the required linear length of air inlet and vent pipe; insert the longest of the two here:	100 ft	Use length of the longer of the vent or air inlet piping system
Add equiv length of (3) 90° long-radius elbows (use the highest number of elbows for either the vent or inlet pipe)	3 x 3 ft = 9 ft	From Vent Manufacturer's instructions
Add equiv length of (2) 45° long-radius elbows (use the highest number of elbows for either the vent or inlet pipe)	0 x = 0 ft.	From Vent Manufacturer's instructions
Add equiv length of vent termination	9 M x 3 ft/M = 18 ft.	From Vent Manufacturer's instructions
Add correction for flexible vent pipe, if any	1.8 x 20 ft = 36 ft.	From Vent Manufacturer's instructions
Total Equivalent Vent Length (TEVL)	163 ft.	Add all of the above lines
Maximum Equivalent Vent Length (MEVL)	127 ft.	For 2" pipe from Table 1
Is TEVL less than MEVL?	NO	Therefore, 60mm pipe may NOT be used; try 80 mm
Maximum Equivalent Vent Length (MEVL)	250 ft.	For 3" pipe from Table 1
Is TEVL less than MEVL?	YES	Therefore, 80 mm pipe may be used

MAXIMUM EQUIVALENT VENT LENGTH - FT. (M) (CONTINUED)

Table 3 – Maximum Equivalent Vent Length – Ft. (M)
4501 to 10,000 Ft. (0 to 1370 M) Altitude

NOTE: Maximum Equivalent Vent Length (MEVL) includes standard and concentric vent termination and does NOT include elbows.
Use Table 2 - Deductions from Maximum Equivalent Vent Length to determine allowable vent length for each application.

Altitude FT (M) ⁵	Unit Size	DIRECT VENT (2-PIPE) AND SINGLE-PIPE									
		Vent Pipe Diameter (in.) ¹									
		1-1/2		2		2-1/2		3		4	
4501 to 5000 (1370 to 1524)	40,000	33	(10.1)	171	(52.1)	196	(59.7)	NA ²		NA	
	60,000	20	(6.1)	111	(33.8)	198	(60.4)	221	(67.4)	NA	
	80,000	13	(4.0)	54	(16.5)	146	(44.5)	195	(59.4)	216	(65.8)
	100,000	NA		16	(4.9)	91	(27.7)	200	(61.0)	222	(67.7)
	120,000	NA		NA		NA		80	(24.4)	211	(64.3)
	140,000 ⁴	NA		NA		NA		60	(18.3)	134	(40.8)
5001 to 6000 (1524 to 1829)	40,000	27	(8.2)	158	(48.2)	179	(54.6)	NA		NA	
	60,000	16	(4.9)	103	(31.4)	186	(56.7)	207	(63.1)	NA	
	80,000	11	(3.4)	49	(14.9)	137	(41.8)	183	(55.8)	200	(61.0)
	100,000	NA		12	(3.7)	85	(25.9)	188	(57.3)	208	(63.4)
	120,000	NA		NA		NA		74	(22.6)	199	(60.7)
	140,000 ⁴	NA		NA		NA		50	(15.2)	109	(33.2)
6001 to 7000 (1829 to 2134)	40,000	21	(6.4)	145	(44.2)	162	(49.4)	NA		NA	
	60,000	13	(4.0)	96	(29.3)	174	(53.0)	194	(59.1)	NA	
	80,000	NA		44	(13.4)	120	(36.6)	171	(52.1)	185	(56.4)
	100,000	NA		10	(3.0)	79	(24.1)	178	(54.3)	195	(59.4)
	120,000	NA		NA		NA		68	(20.7)	187	(57.0)
	140,000 ⁴	NA		NA		NA		41	(12.5)	87	(26.5)
7001 to 8000 (2134 to 2438)	40,000	15	(4.6)	133	(40.5)	146	(44.5)	NA		NA	
	60,000	10	(3.0)	89	(27.1)	163	(49.7)	181	(55.2)	NA	
	80,000	NA		40	(12.2)	120	(36.6)	159	(48.5)	170	(51.8)
	100,000	NA		NA		73	(22.3)	167	(50.9)	182	(55.5)
	120,000	NA		NA		NA		62	(18.9)	175	(53.3)
	140,000 ⁴	NA		NA		NA		32	(9.8)	63	(19.2)
8001 to 9000 (2438 to 2743)	40,000	10	(3.0)	121	(36.9)	130	(39.6)	NA		NA	
	60,000	7	(2.1)	82	(25.0)	152	(46.3)	168	(51.2)	NA	
	80,000	NA		35	(10.7)	111	(33.8)	148	(45.1)	156	(47.5)
	100,000	NA		NA		67	(20.4)	157	(47.9)	170	(51.8)
	120,000	NA		NA		NA		56	(17.1)	164	(50.0)
	140,000 ⁴	NA		NA		NA		23	(7.0)	42	(12.8)
9001 to 10,000 (2743 to 3048)	40,000	5	(1.5)	110	(33.5)	115	(35.1)	NA		NA	
	60,000	NA		76	(23.2)	142	(43.3)	156	(47.5)	NA	
	80,000	NA		31	(9.4)	103	(31.4)	137	(41.8)	142	(43.3)
	100,000	NA		NA		62	(18.9)	147	(44.8)	157	(47.9)
	120,000	NA		NA		NA		51	(15.5)	153	(46.6)
	140,000 ⁴	NA		NA		NA		16	(4.9)	20	(6.1)

NOTES:

1. Use only the vent pipe sizes shown for each furnace. It is NOT necessary to choose the smallest diameter pipe possible for venting.
2. NA – Not allowed. Pressure switch will not close, or flame disturbance may result.
3. Total equivalent vent lengths under 10' for 40,000 BTUH furnaces from 0 to 2000 ft. (0 to 610 M) above sea level require use of an outlet choke plate. Failure to use an outlet choke when required may result in flame disturbance or flame sense lockout.
4. Not all furnace families include 140,000 BTUH input models.
5. Vent sizing for Canadian installations over 4500 ft (1370 M) above sea level are subject to acceptance by local authorities having jurisdiction.
6. Size both the combustion air and vent pipe independently, then use the larger size for both pipes.
7. Assume the two 45° elbows equal one 90° elbow. Wide radius elbows are desirable and may be required in some cases.
8. Elbow and pipe sections within the furnace casing and at the vent termination should not be included in vent length or elbow count.
9. The minimum pipe length is 5 ft. (1.5 M) linear feet (meters) for all applications.
10. Use 3-in. (76 mm) diameter Vent termination kit for installations requiring 4-in. (102 mm) diameter pipe.

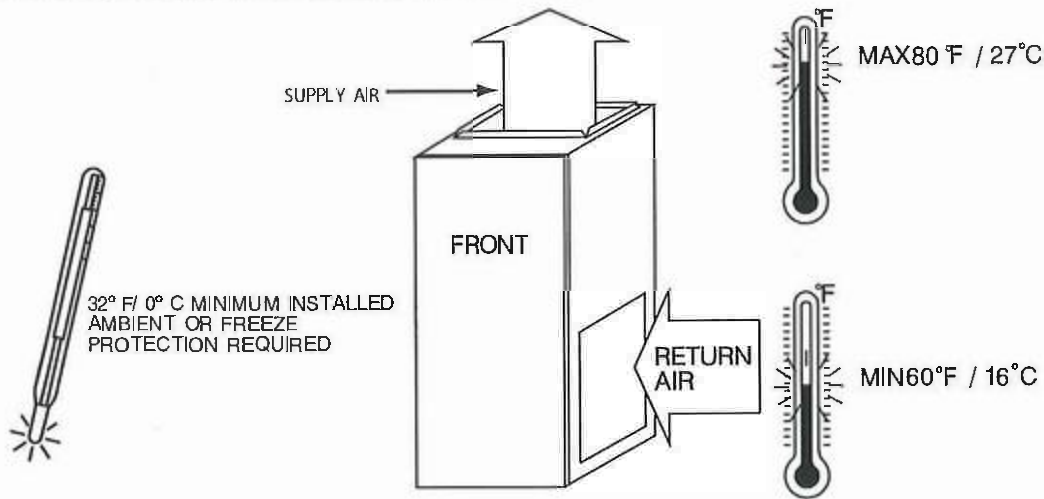
MAXIMUM ALLOWABLE EXPOSED VENT LENGTHS INSULATION TABLE - FT. (M)

Maximum Length of Uninsulated and Insulated Vent Pipe-Ft (M)																	
Single Stage Furnace Input	Winter Design Temp °F (°C)	Pipe Length in Ft. & M	No Insulation					3/8-In. (9.5 mm) Insulation					1/2-In. (12.7 mm) Insulation				
			Pipe Diameter-inches (mm)					Pipe Diameter-inches (mm)					Pipe Diameter-inches (mm)				
			11/2	2	2 1/2	3	4	11/2	2	2 1/2	3	4	11/2	2	2 1/2	3	4
			(38)	(51)	(64)	(76)	(102)	(38)	(51)	(64)	(76)	(102)	(38)	(51)	(64)	(76)	(102)
40000	20 (-10)	Ft.	48	42	42	N/A	N/A	50	122	111	N/A	N/A	50	144	130	N/A	N/A
		M	14.6	12.8	12.8	N/A	N/A	15.2	37.2	33.8	N/A	N/A	15.2	43.9	39.6	N/A	N/A
	0 (-20)	Ft.	26	19	17	N/A	N/A	50	75	66	N/A	N/A	50	90	79	N/A	N/A
		M	7.6	5.8	5.2	N/A	N/A	15.2	22.9	20.1	N/A	N/A	15.2	27.4	24.1	N/A	N/A
	-20 (-30)	Ft.	14	7	5	N/A	N/A	50	52	45	N/A	N/A	50	64	55	N/A	N/A
		M	4.3	2.1	1.5	N/A	N/A	15.2	15.8	13.7	N/A	N/A	15.2	19.5	16.8	N/A	N/A
	-40 (-40)	Ft.	7	0	0	N/A	N/A	50	38	31	N/A	N/A	50	48	40	N/A	N/A
		M	2.1	0.0	0.0	N/A	N/A	15.2	11.6	9.4	N/A	N/A	15.2	14.6	12.2	N/A	N/A
60000	20 (-10)	Ft.	30	61	61	54	N/A	30	135	163	142	N/A	30	135	191	166	N/A
		M	9.1	18.6	18.6	16.5	N/A	9.1	41.1	49.7	43.3	N/A	9.1	41.1	58.2	50.6	N/A
	0 (-20)	Ft.	30	31	30	23	N/A	30	113	100	85	N/A	30	135	120	101	N/A
		M	9.1	9.4	9.1	7.0	N/A	9.1	34.4	30.5	25.9	N/A	9.1	41.1	36.6	30.8	N/A
	-20 (-30)	Ft.	24	17	15	7	N/A	30	81	70	57	N/A	30	98	85	70	N/A
		M	7.3	5.2	4.6	2.1	N/A	9.1	24.7	21.3	17.4	N/A	9.1	29.9	25.9	21.3	N/A
	-40 (-40)	Ft.	15	8	5	0	N/A	30	61	52	40	N/A	30	75	64	51	N/A
		M	4.6	2.4	1.5	0.0	N/A	9.1	18.6	15.8	12.2	N/A	9.1	22.9	19.5	15.5	N/A
80000	20 (-10)	Ft.	20	70	78	70	60	20	70	175	183	154	20	70	175	215	181
		M	6.1	21.3	23.8	21.3	18.3	6.1	21.3	53.3	55.8	46.9	6.1	21.3	53.3	65.5	55.2
	0 (-20)	Ft.	20	42	41	33	21	20	70	132	111	89	20	70	157	133	107
		M	6.1	12.8	12.5	10.1	6.4	6.1	21.3	40.2	33.8	27.1	6.1	21.3	47.9	40.5	32.6
	-20 (-30)	Ft.	20	25	23	14	1	20	70	94	77	57	20	70	113	94	71
		M	6.1	7.6	7.0	4.3	0.3	6.1	21.3	28.7	23.5	17.4	6.1	21.3	34.4	28.7	21.6
	-40 (-40)	Ft.	20	14	12	3	0	20	70	71	56	38	20	70	86	70	50
		M	6.1	4.3	3.7	0.9	0.0	6.1	21.3	21.6	17.1	11.6	6.1	21.3	26.2	21.3	15.2
100000	20 (-10)	Ft.	N/A	25	99	89	78	N/A	25	110	233	265	N/A	25	110	235	229
		M	N/A	7.6	30.2	27.1	23.8	N/A	7.6	33.5	71.0	80.8	N/A	7.6	33.5	71.6	69.8
	0 (-20)	Ft.	N/A	25	55	46	33	N/A	25	110	145	117	N/A	25	110	173	140
		M	N/A	7.6	16.8	14.0	10.1	N/A	7.6	33.5	44.2	35.7	N/A	7.6	33.5	52.7	42.7
	-20 (-30)	Ft.	N/A	25	34	24	11	N/A	25	110	103	79	N/A	25	110	124	97
		M	N/A	7.6	10.4	7.3	3.4	N/A	7.6	33.5	31.4	24.1	N/A	7.6	33.5	37.8	29.6
	-40 (-40)	Ft.	N/A	23	20	11	0	N/A	25	95	77	55	N/A	25	110	94	70
		M	N/A	7.0	6.1	3.4	0.0	N/A	7.6	29.0	23.5	16.8	N/A	7.6	33.5	28.7	21.3
120000	20 (-10)	Ft.	N/A	N/A	5	99	86	N/A	N/A	15	100	219	N/A	N/A	15	100	250
		M	N/A	N/A	4.6	30.2	26.2	N/A	N/A	4.6	30.5	66.8	N/A	N/A	4.6	30.5	76.2
	0 (-20)	Ft.	N/A	N/A	15	51	38	N/A	N/A	15	100	130	N/A	N/A	15	100	156
		M	N/A	N/A	4.6	15.5	11.6	N/A	N/A	4.6	30.5	39.6	N/A	N/A	4.6	30.5	47.5
	-20 (-30)	Ft.	N/A	N/A	15	28	14	N/A	N/A	5	100	88	N/A	N/A	15	100	108
		M	N/A	N/A	4.6	8.5	4.3	N/A	N/A	4.6	30.5	26.8	N/A	N/A	4.6	30.5	32.9
	-40 (-40)	Ft.	N/A	N/A	15	14	0	N/A	N/A	15	85	62	N/A	N/A	15	100	79
		M	N/A	N/A	4.6	4.3	0.0	N/A	N/A	4.6	25.9	18.9	N/A	N/A	4.6	30.5	24.1
140000	20 (-10)	Ft.	N/A	N/A	10	90	99	N/A	N/A	10	90	210	N/A	N/A	10	90	210
		M	N/A	N/A	3.0	27.4	30.2	N/A	N/A	3.0	27.4	64.0	N/A	N/A	3.0	27.4	64.0
	0 (-20)	Ft.	N/A	N/A	10	61	47	N/A	N/A	10	90	153	N/A	N/A	10	90	183
		M	N/A	N/A	3.0	18.6	14.3	N/A	N/A	3.0	27.4	46.6	N/A	N/A	3.0	27.4	55.8
	-20 (-30)	Ft.	N/A	N/A	10	35	21	N/A	N/A	10	90	104	N/A	N/A	10	90	128
		M	N/A	N/A	3.0	10.7	6.4	N/A	N/A	3.0	27.4	31.7	N/A	N/A	3.0	27.4	39.0
	-40 (-40)	Ft.	N/A	N/A	10	20	NA	N/A	N/A	10	90	75	N/A	N/A	10	90	94
		M	N/A	N/A	3.0	6.1	NA	N/A	N/A	3.0	27.4	22.9	N/A	N/A	3.0	27.4	28.7

*Not all models have these models.

RETURN AIR TEMPERATURE

This furnace is designed for continuous return-air minimum temperature of 60°F (15°C) db or intermittent operation down to 55°F (13°C) db such as when used with a night setback thermometer. Return-air temperature must not exceed 80°F (27°C) db. Failure to follow these return air limits may affect reliability of heat exchangers, motors and controls.



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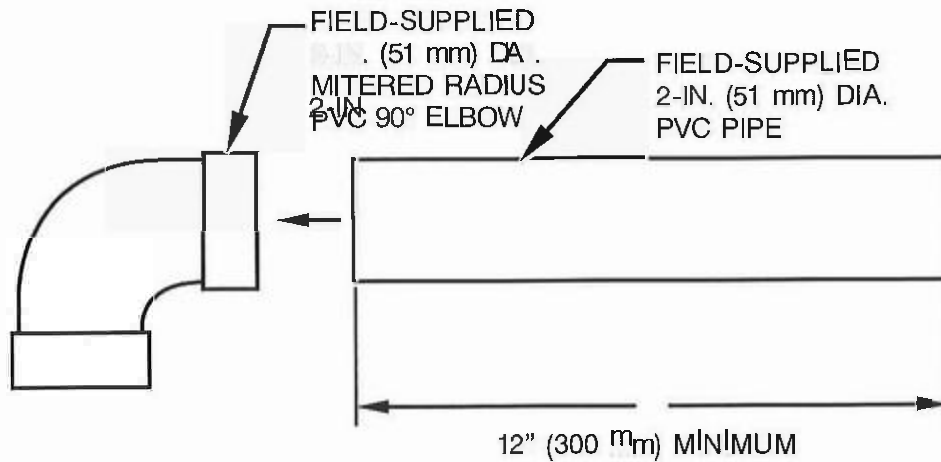
MINIMUM CLEARANCES TO COMBUSTIBLE MATERIALS

POSITION	CLEARANCE
Rear	0 (0 mm)
Front (Combustion air openings in furnace and in structure)	1 in. (25 mm)
Required for service **	24 in. (610 mm)*
All Sides of Supply Plenum**	1 in. (25 mm)
Sides	0 (0 mm)
Vent	0 (0 mm)
Top of Furnace	1 in. (25 mm)

* Recommended

**Consult your local building codes

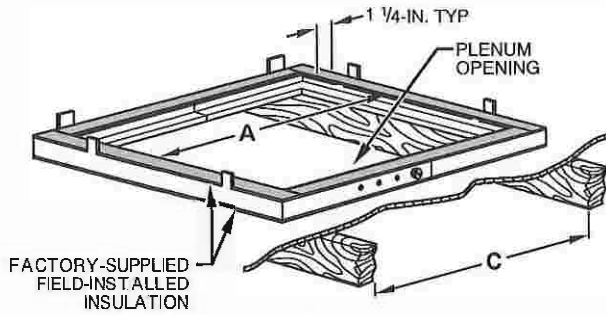
COMBUSTION-AIR PIPE FOR NON-DIRECT (1-PIPE) VENT APPLICATION



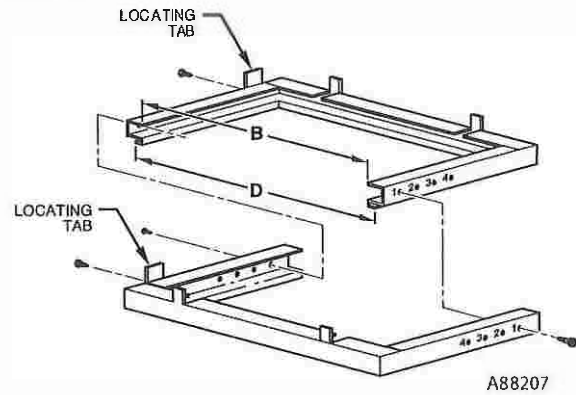
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NOTE: See Installation Instructions for specific venting configurations.

DOWNFLOW SUBBASE



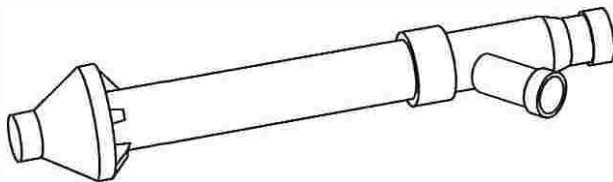
Assembled



Disassembled

DIMENSIONS (IN. / MM)						
FURNACE CASING WIDTH	FURNACE IN DOWNFLOW APPLICATION	PLENUM OPENING*		FLOOR OPENING		HOLE NO. FOR WIDTH ADJUSTMENT
		A	B	C	D	
14-3/16 (360)	Furnace with or without Cased Coil Assembly or Coil Box	11-3/16 (322)	19 (483)	13-7/16 (341)	20-5/8 (600)	4
17-1/2 (445)	Furnace with or without Cased Coil Assembly or Coil Box	15-1/8 (384)	19 (483)	16-3/4 (426)	20-5/8 (600)	3
21 (533)	Furnace with or without Cased Coil Assembly or Coil Box	18-5/8 (396)	19 (483)	20-1/4 (514)	20-5/8 (600)	2
24-1/2 (622)	Furnace with or without Cased Coil Assembly or Coil Box	22-1/8 (562)	19 (483)	23-3/4 (603)	20-5/8 (600)	1

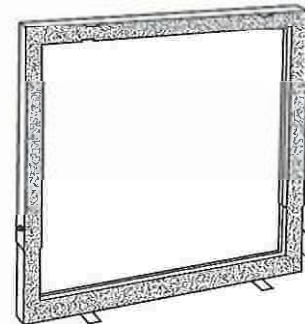
*The plenum should be constructed 1/4-in. (6 mm) smaller in width and depth than the plenum dimensions shown above.



Concentric Vent Kit

A93086

A concentric vent kit allows vent and combustion-air pipes to terminate through a single exit in a roof or side wall. One pipe runs inside the other allowing venting through the inner pipe and combustion air to be drawn in through the outer pipe.

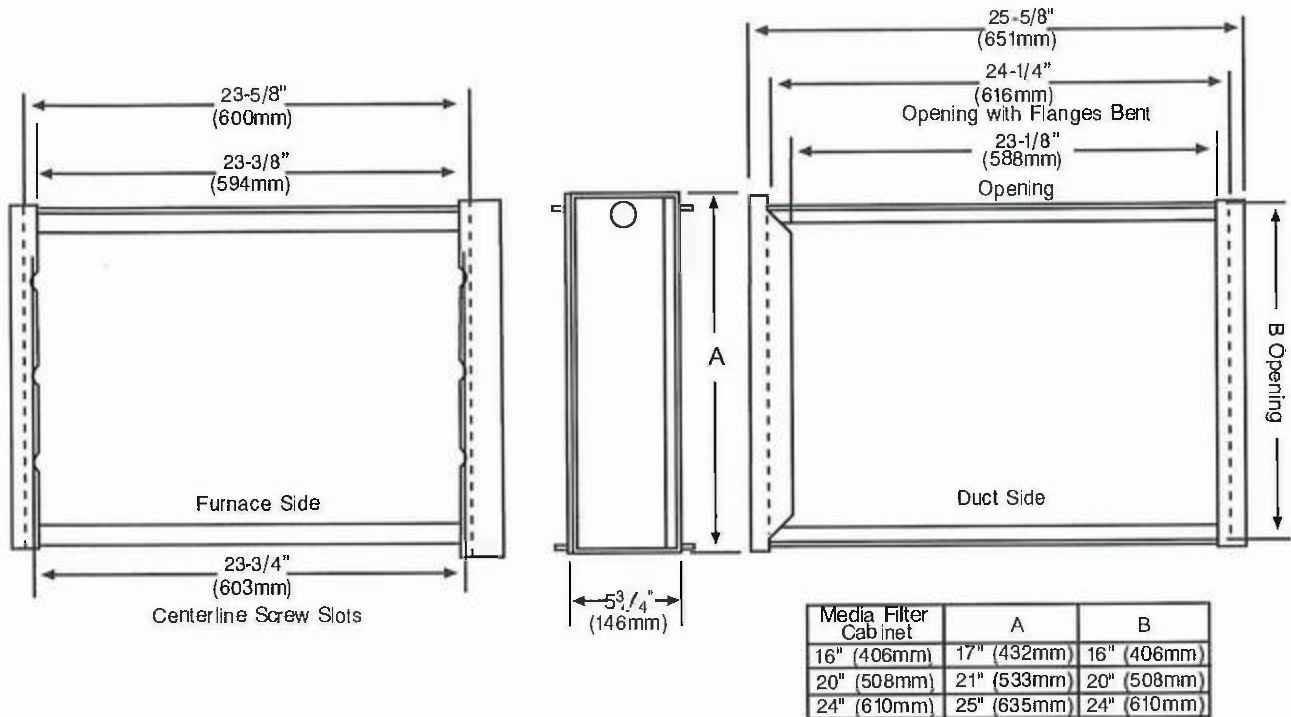


Downflow Subbase

A88202

One base fits all furnace sizes. The base is designed to be installed between the furnace and a combustible floor when no coil box is used or when a coil box other than a Carrier cased coil is used. It is CSA design certified for use with Carrier branded furnaces when installed in downflow applications.

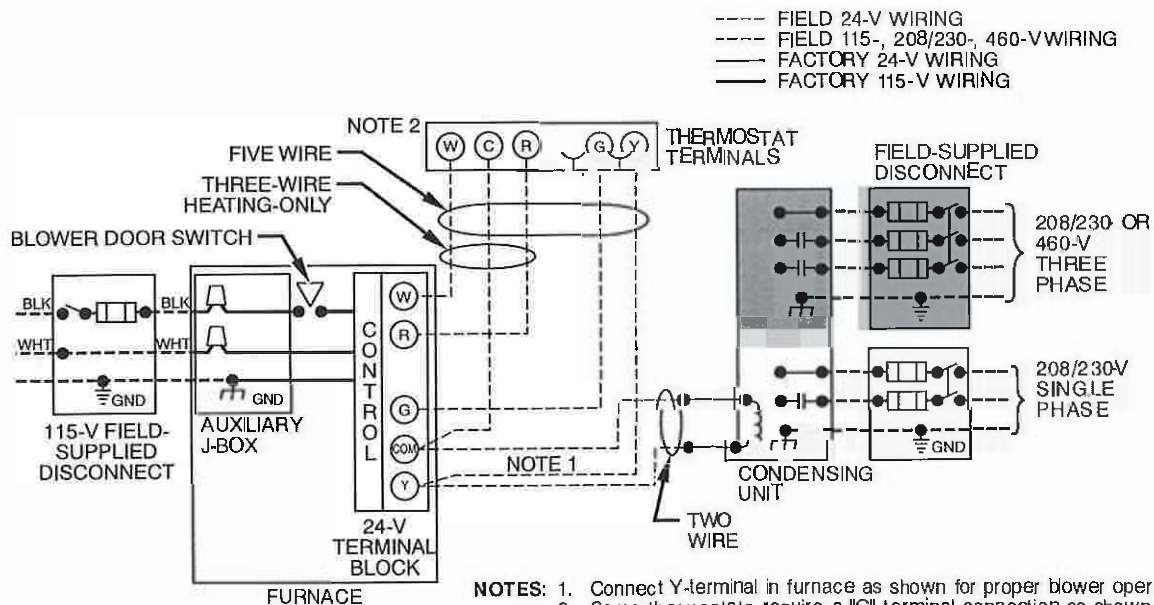
MEDIA FILTER CABINET



NOTE: Media cabinet is matched to the bottom opening on furnace. May also be used for side return.

A12428

TYPICAL WIRING SCHEMATIC

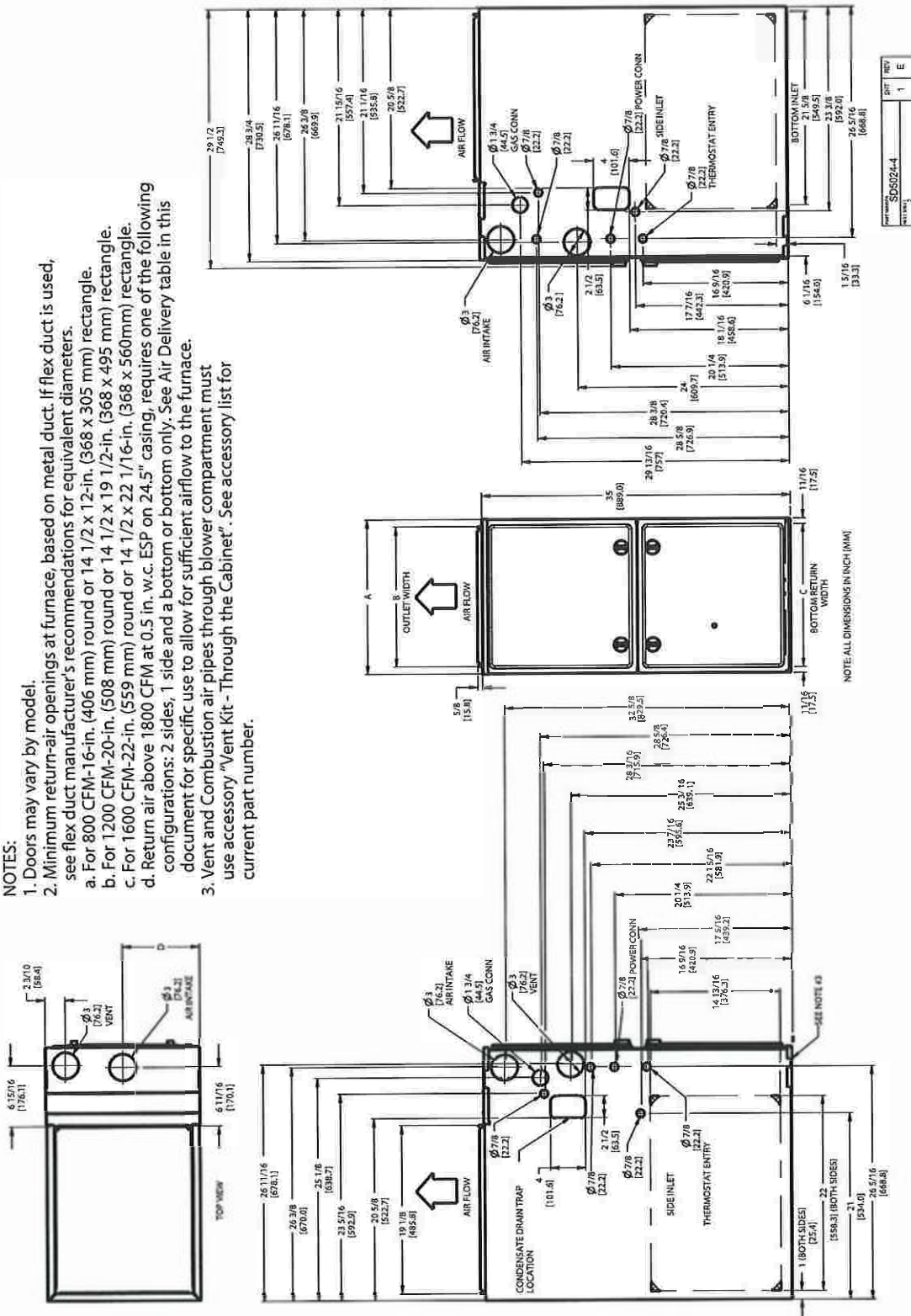


A11387

DIMENSIONAL DRAWING

NOTES:

1. Doors may vary by model.
2. Minimum return-air openings at furnace, based on metal duct. If flex duct is used, see flex duct manufacturer's recommendations for equivalent diameters.
 - a. For 800 CFM-16-in. (406 mm) round or 14 1/2 x 12-in. (368 x 305 mm) rectangle.
 - b. For 1200 CFM-20-in. (508 mm) round or 14 1/2 x 19 1/2-in. (368 x 495 mm) rectangle.
 - c. For 1600 CFM-22-in. (559 mm) round or 14 1/2 x 22 1/16-in. (368 x 560 mm) rectangle.
 - d. Return air above 1800 CFM at 0.5 in. w.c. ESP on 24.5" casing, requires one of the following configurations: 2 sides, 1 side and a bottom or bottom only. See Air Delivery table in this document for specific use to allow for sufficient airflow to the furnace.
3. Vent and Combustion air pipes through blower compartment must use accessory "Vent Kit - Through the Cabinet". See accessory list for current part number.



59SP6 FURNACE SIZE	A CABINET WIDTH	B OUTLET WIDTH	C BOTTOM INLET WIDTH	D AIR INTAKE	SHIP WT. LB (KG)
040-10	14-3/16 (361)	12-1/2 (319)	12-9/16 (322)	7-1/8 (181)	120.0 (54.4)
060-12					130.5 (59.2)
040-12					131.0 (59.4)
060-14	17-1/2 (445)	15-7/8 (403)	16 (406)	6-3/4 (222)	141.0 (64.0)
080-16					145.0 (65.8)
080-20					155.5 (70.5)
100-20	21 (533)	19-3/8 (492)	19-1/2 (495)	10-1/2 (267)	156.5 (71.0)
120-22				12-1/4 (311)	189.5 (86.0)

GUIDE SPECIFICATIONS

General

System Description

Furnish a _____ 4-way multipoise gas-fired condensing furnace for use with natural gas or propane (factory-authorized conversion kit required for propane); furnish external media cabinet for use with accessory media filter or standard filter.

Quality Assurance

Unit will be designed, tested and constructed to the current ANSI Z 21.47/CSA 2.3 design standard for gas-fired central furnaces.

Unit will be third party certified by CSA to the current ANSI Z 21.47/CSA 2.3 design standard for gas-fired central furnaces. Unit will carry the CSA Blue Star® and Blue Flame® labels. Unit efficiency testing will be performed per the current DOE test procedure as listed in the Federal Register.

Unit will be certified for capacity and efficiency and listed in the latest AHRI Consumer's Directory of Certified Efficiency Ratings.

Unit will carry the current Federal Trade Commission Energy Guide efficiency label.

Delivery, Storage, and Handling

Unit will be shipped as single package only and is stored and handled per unit manufacturer's recommendations.

Warranty (for inclusion by specifying engineer)

U.S. and Canada only. Warranty certificate available upon request.

Equipment

Blower Wheel and ECM Blower Motor

Galvanized blower wheel shall be centrifugal type, statically and dynamically balanced. Blower motor of ECM type shall be permanently lubricated with sealed ball bearings, of _____ hp, and have multiple speeds from 600-1200 RPM operating only when 24-VAC motor inputs are provided. Blower motor shall be direct drive and soft mounted to the blower housing to reduce vibration transmission.

Filters

Furnace shall have reusable-type filters. Filter shall be _____ in. (mm) X _____ in. (mm). An accessory highly efficient Media Filter is available as an option. _____ Media Filter.

Casing

Casing shall be of .030 in. thickness minimum, pre-painted galvanized steel.

Draft Inducer Motor

Draft inducer motor shall be single-speed PSC design.

Primary Heat Exchangers

Primary heat exchangers shall be 3-Pass corrosion-resistant aluminized steel of fold-and-crimp sectional design and applied operating under negative pressure.

Secondary Heat Exchangers

Secondary heat exchangers shall be of a stainless steel flow-through of fin-and-tube design and applied operating under negative pressure.

Controls

Controls shall include a micro-processor-based integrated electronic control board with at least 16 service troubleshooting codes displayed via diagnostic flashing LED light on the control, a self-test feature that checks all major functions of the furnace, and a replaceable automotive-type circuit protection fuse. Multiple operational settings available, including blower speeds for high heat, low cooling, high cooling and continuous fan. Continuous fan speed may be adjusted from the thermostat. Features will also include temporary reduced airflow in the cooling mode for improved dehumidification when a TP-PRH edge® is selected as the thermostat.

Operating Characteristics

Heating capacity shall be _____ Btuh input; _____ Btuh output capacity.

Fuel Gas Efficiency shall be _____ AFUE.

Air delivery shall be _____ cfm minimum at 0.50 in. W.C. external static pressure.

Dimensions shall be: depth _____ in. (mm); width _____ in. (mm); height _____ in. (mm) (casing only).

Height shall be _____ in. (mm) with A/C coil and _____ in. (mm) overall with plenum.

Electrical Requirements

Electrical supply shall be 115 volts, 60 Hz, single-phase (nominal). Minimum wire size shall be _____ AWG; maximum fuse size of HACR-type designated circuit breaker shall be _____ amps.

Special Features

Refer to section of the product data identifying accessories and descriptions for specific features and available enhancements.

59SP5A

2/1/2018
CS

Trustee Acct#108200290884

**Town of Newmarket
Capital Reserve
Buildings and Improvements
FY 17/18**

	<u>Year</u> <u>Replace</u>	<u>Replace</u> <u>Cost</u>	<u>Balance</u> <u>7/1/2017</u>	<u>FY 17/18</u> <u>Additions</u>	<u>Resolution</u> <u>Number</u>	<u>Withdrawals</u> <u>FY 17/18</u> <u>Resolutions</u>	<u>Remaining</u> <u>Balance</u>
<u>Buildings and Facilities</u>			154,850	50,000			204,850
HVAC Town Hall & Recreation Center		0					0
Roof Replacement		150,000			17/18-21	-4,970	-4,970
Exterior Painting of Bldgs(to be considered exp next year)		109,764				0	0
Flooring		0				0	0
Town Hall First Floor Bathrooms(Completed)		0				0	0
Fire Station Second Floor		286,000			15/16-40	1,306	1,306
Windows Community Center						0	0
Door Rplcmnt & Oprn addtn Sunrise Center					17/18-10	-9,950	-9,950
Surveillance & Control Access System					17/18-14	-23,712	-23,712
Council Chambers Improvements					17/18-15	-27,385	-27,385
Town Hall Improvements					17/18-16	-13,000	-13,000
Town Hall Security					17/18-24	-10,100	-10,100
Security Recreation 1/2 cost					17/18-26	-8,618	-8,618
Interest			36,957	383			37,340
Total		545,764	191,807	50,383		-96,429	145,760

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Services, Administration Offices, Parks & Rec

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Centers, Security Systems



Hunterdon County, NJ
Educational Services Commission
Tax-Exempt Small Ticket Lease Program
#34HUNCCP

More info and documents>

2016 - 2017 MLC Exhibit Events & Presentations

March 29-31, 2017 New York State Government Finance Association
Albany Marriott, Albany, NY

May 2017 Tri-State Association of School Business Officials
Sheraton, Burlington, VT

June 4-7, 2017 New York State Association for School Business Officials
Lake Placid, NY

MLC Presentations & Documents

- The Power of Lease-Purchase Financing (PDF)
- New Jersey Lease Program - 2017 Rate Chart
- New Jersey Lease Program - General Info
- Small Ticket Program - Financing Documents

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- Financing Energy-Efficient Projects
- Lease Financing and the Tight Credit Market
- MLC - Recent Projects & Deals
- Comments from satisfied customers>

Simple Loan Calculator

Enter values	
Loan amount	\$ 149,794.00
Annual interest rate	3.98%
Loan period in years	10
Start date of loan	7/1/2018
Monthly payment	\$ 1,515.17
Number of payments	120
Total interest	\$ 32,026.16
Total cost of loan	\$ 181,820.16

No.	Payment Date	Beginning Balance	Payment	Principal	Interest	Ending Balance
1	8/1/2018	\$ 149,794.00	\$ 1,515.17	\$ 1,018.35	\$ 496.82	\$ 148,775.65
2	9/1/2018	\$ 148,775.65	\$ 1,515.17	\$ 1,021.73	\$ 493.44	\$ 147,753.92
3	10/1/2018	\$ 147,753.92	\$ 1,515.17	\$ 1,025.12	\$ 490.05	\$ 146,728.80
4	11/1/2018	\$ 146,728.80	\$ 1,515.17	\$ 1,028.52	\$ 486.65	\$ 145,700.28
5	12/1/2018	\$ 145,700.28	\$ 1,515.17	\$ 1,031.93	\$ 483.24	\$ 144,668.36
6	1/1/2019	\$ 144,668.36	\$ 1,515.17	\$ 1,035.35	\$ 479.82	\$ 143,633.00
7	2/1/2019	\$ 143,633.00	\$ 1,515.17	\$ 1,038.79	\$ 476.38	\$ 142,594.22
8	3/1/2019	\$ 142,594.22	\$ 1,515.17	\$ 1,042.23	\$ 472.94	\$ 141,551.99
9	4/1/2019	\$ 141,551.99	\$ 1,515.17	\$ 1,045.69	\$ 469.48	\$ 140,506.30
10	5/1/2019	\$ 140,506.30	\$ 1,515.17	\$ 1,049.16	\$ 466.01	\$ 139,457.15
11	6/1/2019	\$ 139,457.15	\$ 1,515.17	\$ 1,052.64	\$ 462.53	\$ 138,404.51
12	7/1/2019	\$ 138,404.51	\$ 1,515.17	\$ 1,056.13	\$ 459.04	\$ 137,348.39
13	8/1/2019	\$ 137,348.39	\$ 1,515.17	\$ 1,059.63	\$ 455.54	\$ 136,288.76
14	9/1/2019	\$ 136,288.76	\$ 1,515.17	\$ 1,063.14	\$ 452.02	\$ 135,225.61
15	10/1/2019	\$ 135,225.61	\$ 1,515.17	\$ 1,066.67	\$ 448.50	\$ 134,158.94
16	11/1/2019	\$ 134,158.94	\$ 1,515.17	\$ 1,070.21	\$ 444.96	\$ 133,088.73
17	12/1/2019	\$ 133,088.73	\$ 1,515.17	\$ 1,073.76	\$ 441.41	\$ 132,014.98
18	1/1/2020	\$ 132,014.98	\$ 1,515.17	\$ 1,077.32	\$ 437.85	\$ 130,937.66
19	2/1/2020	\$ 130,937.66	\$ 1,515.17	\$ 1,080.89	\$ 434.28	\$ 129,856.77
20	3/1/2020	\$ 129,856.77	\$ 1,515.17	\$ 1,084.48	\$ 430.69	\$ 128,772.29
21	4/1/2020	\$ 128,772.29	\$ 1,515.17	\$ 1,088.07	\$ 427.09	\$ 127,684.22
22	5/1/2020	\$ 127,684.22	\$ 1,515.17	\$ 1,091.68	\$ 423.49	\$ 126,592.54
23	6/1/2020	\$ 126,592.54	\$ 1,515.17	\$ 1,095.30	\$ 419.87	\$ 125,497.23
24	7/1/2020	\$ 125,497.23	\$ 1,515.17	\$ 1,098.94	\$ 416.23	\$ 124,398.30
25	8/1/2020	\$ 124,398.30	\$ 1,515.17	\$ 1,102.58	\$ 412.59	\$ 123,295.72
26	9/1/2020	\$ 123,295.72	\$ 1,515.17	\$ 1,106.24	\$ 408.93	\$ 122,189.48

No.	Payment Date	Beginning Balance	Payment	Principal	Interest	Ending Balance
27	10/1/2020	\$ 122,189.48	\$ 1,515.17	\$ 1,109.91	\$ 405.26	\$ 121,079.57
28	11/1/2020	\$ 121,079.57	\$ 1,515.17	\$ 1,113.59	\$ 401.58	\$ 119,965.99
29	12/1/2020	\$ 119,965.99	\$ 1,515.17	\$ 1,117.28	\$ 397.89	\$ 118,848.71
30	1/1/2021	\$ 118,848.71	\$ 1,515.17	\$ 1,120.99	\$ 394.18	\$ 117,727.72
31	2/1/2021	\$ 117,727.72	\$ 1,515.17	\$ 1,124.70	\$ 390.46	\$ 116,603.02
32	3/1/2021	\$ 116,603.02	\$ 1,515.17	\$ 1,128.43	\$ 386.73	\$ 115,474.58
33	4/1/2021	\$ 115,474.58	\$ 1,515.17	\$ 1,132.18	\$ 382.99	\$ 114,342.40
34	5/1/2021	\$ 114,342.40	\$ 1,515.17	\$ 1,135.93	\$ 379.24	\$ 113,206.47
35	6/1/2021	\$ 113,206.47	\$ 1,515.17	\$ 1,139.70	\$ 375.47	\$ 112,066.77
36	7/1/2021	\$ 112,066.77	\$ 1,515.17	\$ 1,143.48	\$ 371.69	\$ 110,923.29
37	8/1/2021	\$ 110,923.29	\$ 1,515.17	\$ 1,147.27	\$ 367.90	\$ 109,776.02
38	9/1/2021	\$ 109,776.02	\$ 1,515.17	\$ 1,151.08	\$ 364.09	\$ 108,624.94
39	10/1/2021	\$ 108,624.94	\$ 1,515.17	\$ 1,154.90	\$ 360.27	\$ 107,470.05
40	11/1/2021	\$ 107,470.05	\$ 1,515.17	\$ 1,158.73	\$ 356.44	\$ 106,311.32
41	12/1/2021	\$ 106,311.32	\$ 1,515.17	\$ 1,162.57	\$ 352.60	\$ 105,148.75
42	1/1/2022	\$ 105,148.75	\$ 1,515.17	\$ 1,166.42	\$ 348.74	\$ 103,982.33
43	2/1/2022	\$ 103,982.33	\$ 1,515.17	\$ 1,170.29	\$ 344.87	\$ 102,812.03
44	3/1/2022	\$ 102,812.03	\$ 1,515.17	\$ 1,174.17	\$ 340.99	\$ 101,637.86
45	4/1/2022	\$ 101,637.86	\$ 1,515.17	\$ 1,178.07	\$ 337.10	\$ 100,459.79
46	5/1/2022	\$ 100,459.79	\$ 1,515.17	\$ 1,181.98	\$ 333.19	\$ 99,277.81
47	6/1/2022	\$ 99,277.81	\$ 1,515.17	\$ 1,185.90	\$ 329.27	\$ 98,091.92
48	7/1/2022	\$ 98,091.92	\$ 1,515.17	\$ 1,189.83	\$ 325.34	\$ 96,902.09
49	8/1/2022	\$ 96,902.09	\$ 1,515.17	\$ 1,193.78	\$ 321.39	\$ 95,708.31
50	9/1/2022	\$ 95,708.31	\$ 1,515.17	\$ 1,197.74	\$ 317.43	\$ 94,510.58
51	10/1/2022	\$ 94,510.58	\$ 1,515.17	\$ 1,201.71	\$ 313.46	\$ 93,308.87
52	11/1/2022	\$ 93,308.87	\$ 1,515.17	\$ 1,205.69	\$ 309.47	\$ 92,103.17
53	12/1/2022	\$ 92,103.17	\$ 1,515.17	\$ 1,209.69	\$ 305.48	\$ 90,893.48
54	1/1/2023	\$ 90,893.48	\$ 1,515.17	\$ 1,213.70	\$ 301.46	\$ 89,679.78
55	2/1/2023	\$ 89,679.78	\$ 1,515.17	\$ 1,217.73	\$ 297.44	\$ 88,462.05
56	3/1/2023	\$ 88,462.05	\$ 1,515.17	\$ 1,221.77	\$ 293.40	\$ 87,240.28
57	4/1/2023	\$ 87,240.28	\$ 1,515.17	\$ 1,225.82	\$ 289.35	\$ 86,014.46
58	5/1/2023	\$ 86,014.46	\$ 1,515.17	\$ 1,229.89	\$ 285.28	\$ 84,784.57
59	6/1/2023	\$ 84,784.57	\$ 1,515.17	\$ 1,233.97	\$ 281.20	\$ 83,550.60
60	7/1/2023	\$ 83,550.60	\$ 1,515.17	\$ 1,238.06	\$ 277.11	\$ 82,312.55
61	8/1/2023	\$ 82,312.55	\$ 1,515.17	\$ 1,242.16	\$ 273.00	\$ 81,070.38
62	9/1/2023	\$ 81,070.38	\$ 1,515.17	\$ 1,246.28	\$ 268.88	\$ 79,824.10
63	10/1/2023	\$ 79,824.10	\$ 1,515.17	\$ 1,250.42	\$ 264.75	\$ 78,573.68
64	11/1/2023	\$ 78,573.68	\$ 1,515.17	\$ 1,254.57	\$ 260.60	\$ 77,319.11
65	12/1/2023	\$ 77,319.11	\$ 1,515.17	\$ 1,258.73	\$ 256.44	\$ 76,060.39

No.	Payment Date	Beginning Balance	Payment	Principal	Interest	Ending Balance
66	1/1/2024	\$ 76,060.39	\$ 1,515.17	\$ 1,262.90	\$ 252.27	\$ 74,797.49
67	2/1/2024	\$ 74,797.49	\$ 1,515.17	\$ 1,267.09	\$ 248.08	\$ 73,530.40
68	3/1/2024	\$ 73,530.40	\$ 1,515.17	\$ 1,271.29	\$ 243.88	\$ 72,259.10
69	4/1/2024	\$ 72,259.10	\$ 1,515.17	\$ 1,275.51	\$ 239.66	\$ 70,983.59
70	5/1/2024	\$ 70,983.59	\$ 1,515.17	\$ 1,279.74	\$ 235.43	\$ 69,703.86
71	6/1/2024	\$ 69,703.86	\$ 1,515.17	\$ 1,283.98	\$ 231.18	\$ 68,419.87
72	7/1/2024	\$ 68,419.87	\$ 1,515.17	\$ 1,288.24	\$ 226.93	\$ 67,131.63
73	8/1/2024	\$ 67,131.63	\$ 1,515.17	\$ 1,292.51	\$ 222.65	\$ 65,839.12
74	9/1/2024	\$ 65,839.12	\$ 1,515.17	\$ 1,296.80	\$ 218.37	\$ 64,542.31
75	10/1/2024	\$ 64,542.31	\$ 1,515.17	\$ 1,301.10	\$ 214.07	\$ 63,241.21
76	11/1/2024	\$ 63,241.21	\$ 1,515.17	\$ 1,305.42	\$ 209.75	\$ 61,935.79
77	12/1/2024	\$ 61,935.79	\$ 1,515.17	\$ 1,309.75	\$ 205.42	\$ 60,626.05
78	1/1/2025	\$ 60,626.05	\$ 1,515.17	\$ 1,314.09	\$ 201.08	\$ 59,311.95
79	2/1/2025	\$ 59,311.95	\$ 1,515.17	\$ 1,318.45	\$ 196.72	\$ 57,993.50
80	3/1/2025	\$ 57,993.50	\$ 1,515.17	\$ 1,322.82	\$ 192.35	\$ 56,670.68
81	4/1/2025	\$ 56,670.68	\$ 1,515.17	\$ 1,327.21	\$ 187.96	\$ 55,343.47
82	5/1/2025	\$ 55,343.47	\$ 1,515.17	\$ 1,331.61	\$ 183.56	\$ 54,011.86
83	6/1/2025	\$ 54,011.86	\$ 1,515.17	\$ 1,336.03	\$ 179.14	\$ 52,675.83
84	7/1/2025	\$ 52,675.83	\$ 1,515.17	\$ 1,340.46	\$ 174.71	\$ 51,335.37
85	8/1/2025	\$ 51,335.37	\$ 1,515.17	\$ 1,344.91	\$ 170.26	\$ 49,990.46
86	9/1/2025	\$ 49,990.46	\$ 1,515.17	\$ 1,349.37	\$ 165.80	\$ 48,641.10
87	10/1/2025	\$ 48,641.10	\$ 1,515.17	\$ 1,353.84	\$ 161.33	\$ 47,287.26
88	11/1/2025	\$ 47,287.26	\$ 1,515.17	\$ 1,358.33	\$ 156.84	\$ 45,928.92
89	12/1/2025	\$ 45,928.92	\$ 1,515.17	\$ 1,362.84	\$ 152.33	\$ 44,566.09
90	1/1/2026	\$ 44,566.09	\$ 1,515.17	\$ 1,367.36	\$ 147.81	\$ 43,198.73
91	2/1/2026	\$ 43,198.73	\$ 1,515.17	\$ 1,371.89	\$ 143.28	\$ 41,826.84
92	3/1/2026	\$ 41,826.84	\$ 1,515.17	\$ 1,376.44	\$ 138.73	\$ 40,450.40
93	4/1/2026	\$ 40,450.40	\$ 1,515.17	\$ 1,381.01	\$ 134.16	\$ 39,069.39
94	5/1/2026	\$ 39,069.39	\$ 1,515.17	\$ 1,385.59	\$ 129.58	\$ 37,683.80
95	6/1/2026	\$ 37,683.80	\$ 1,515.17	\$ 1,390.18	\$ 124.98	\$ 36,293.62
96	7/1/2026	\$ 36,293.62	\$ 1,515.17	\$ 1,394.79	\$ 120.37	\$ 34,898.82
97	8/1/2026	\$ 34,898.82	\$ 1,515.17	\$ 1,399.42	\$ 115.75	\$ 33,499.40
98	9/1/2026	\$ 33,499.40	\$ 1,515.17	\$ 1,404.06	\$ 111.11	\$ 32,095.34
99	10/1/2026	\$ 32,095.34	\$ 1,515.17	\$ 1,408.72	\$ 106.45	\$ 30,686.62
100	11/1/2026	\$ 30,686.62	\$ 1,515.17	\$ 1,413.39	\$ 101.78	\$ 29,273.23
101	12/1/2026	\$ 29,273.23	\$ 1,515.17	\$ 1,418.08	\$ 97.09	\$ 27,855.15
102	1/1/2027	\$ 27,855.15	\$ 1,515.17	\$ 1,422.78	\$ 92.39	\$ 26,432.37
103	2/1/2027	\$ 26,432.37	\$ 1,515.17	\$ 1,427.50	\$ 87.67	\$ 25,004.87
104	3/1/2027	\$ 25,004.87	\$ 1,515.17	\$ 1,432.24	\$ 82.93	\$ 23,572.64

No.	Payment Date	Beginning Balance	Payment	Principal	Interest	Ending Balance
105	4/1/2027	\$ 23,572.64	\$ 1,515.17	\$ 1,436.99	\$ 78.18	\$ 22,135.65
106	5/1/2027	\$ 22,135.65	\$ 1,515.17	\$ 1,441.75	\$ 73.42	\$ 20,693.90
107	6/1/2027	\$ 20,693.90	\$ 1,515.17	\$ 1,446.53	\$ 68.63	\$ 19,247.37
108	7/1/2027	\$ 19,247.37	\$ 1,515.17	\$ 1,451.33	\$ 63.84	\$ 17,796.03
109	8/1/2027	\$ 17,796.03	\$ 1,515.17	\$ 1,456.14	\$ 59.02	\$ 16,339.89
110	9/1/2027	\$ 16,339.89	\$ 1,515.17	\$ 1,460.97	\$ 54.19	\$ 14,878.92
111	10/1/2027	\$ 14,878.92	\$ 1,515.17	\$ 1,465.82	\$ 49.35	\$ 13,413.10
112	11/1/2027	\$ 13,413.10	\$ 1,515.17	\$ 1,470.68	\$ 44.49	\$ 11,942.41
113	12/1/2027	\$ 11,942.41	\$ 1,515.17	\$ 1,475.56	\$ 39.61	\$ 10,466.86
114	1/1/2028	\$ 10,466.86	\$ 1,515.17	\$ 1,480.45	\$ 34.72	\$ 8,986.40
115	2/1/2028	\$ 8,986.40	\$ 1,515.17	\$ 1,485.36	\$ 29.80	\$ 7,501.04
116	3/1/2028	\$ 7,501.04	\$ 1,515.17	\$ 1,490.29	\$ 24.88	\$ 6,010.75
117	4/1/2028	\$ 6,010.75	\$ 1,515.17	\$ 1,495.23	\$ 19.94	\$ 4,515.52
118	5/1/2028	\$ 4,515.52	\$ 1,515.17	\$ 1,500.19	\$ 14.98	\$ 3,015.33
119	6/1/2028	\$ 3,015.33	\$ 1,515.17	\$ 1,505.17	\$ 10.00	\$ 1,510.16
120	7/1/2028	\$ 1,510.16	\$ 1,515.17	\$ 1,510.16	\$ 5.01	\$ 0.00



Municipal
Leasing
Consultants



T: 802.372.8435 F: 802.372.4775
powerofleasing.com
powerofenergyfinancing.com

March 1, 2018 (revised)

Steve Fournier
Town Administrator
Town of Newmarket
186 Main Street
Newmarket, NH 03857

Dear Steve,

Municipal Leasing Consultants, an independent woman-owned business, is pleased to present the following proposal to lease certain capital equipment pursuant to the following terms and conditions:

LESSOR: Municipal Leasing Consultants, its Agents or Assignee

LESSEE: Town of Newmarket, NH

EQUIPMENT: EPC with Energy Efficiency Investments

EQUIPMENT COST: \$188,844.00 – (\$14,050 Rebate & \$25,000.00 down payment)= \$149,794.00

PAYMENT STRUCTURES: Tax-Exempt Lease Purchase
Ten (10) Years – Annual/Arrears
Ten (10) Annual Payments of \$18,459.05
First payment of \$20,067.20 due One Year After Acceptance and Annual thereafter
(i.e. \$149,794.00 x .123230 = \$18,459.05)

RATE: 3.99%.

As part of the proposal process, we encourage you to contact us to discuss the intricacies of our proposal and your specific goals. There are many variations available to our proposed financing structure, which can be "fine tuned" as our dialog progresses.

The preceding costs are estimates and thus, the payment amount would be changed in proportion to the actual cost. The Vendor(s) will be paid upon the Lessee's authorization and the execution of mutually acceptable documentation.

THE ABOVE QUOTES ARE FIXED FROM MARCH 1, 2018 TO APRIL 1, 2018 IN ANTICIPATION OF CLOSING/ FUNDING BY THIS DATE. THEREAFTER, THE RATE WILL FLOAT AND NOT BE LOCKED IN UNTIL DOCUMENTS ARE PREPARED FOR CLOSING AND WILL BE BASED ON THE LIKE TERM SWAP RATES.

EQUIPMENT ACCEPTANCE DATE:

This proposal is based on both the assumption and the condition that any and all equipment will be delivered to and accepted by Lessee prior to February 15, 2019.

OPTION AT LEASE EXPIRATION:

At the lease expiration, the Lessee shall have the right to purchase the equipment for One dollar (\$1.00), assuming the lease is not in default and all terms and conditions of the lease have been met.

NET LEASE:

This lease will be a net lease transaction with maintenance, acceptable insurance coverage, taxes and any legal fees the responsibility of the Lessee.

LEASE AMORTIZATION SCHEDULE:

Amortization schedules with separate principal and interest cost breakdown will be provided with the final documentation.

WARRANTIES:

Lessor is bidding only as to the provision of lease purchase financing for the purchase cost of the equipment and will have no responsibility to the Lessee or any other person for the selection, furnishing, delivery, servicing or maintaining of the equipment. All equipment manufacturer or vendor warranties will be passed to the Lessee under the agreement.

NON-APPROPRIATION:

The lease payments shall be subject to annual appropriation for each fiscal year.

BANK OR NON-BANK QUALIFICATION:

Lessee reasonably anticipates the total amount of tax-exempt obligations (other than private activity bonds) to be issued by Lessee during calendar year 2018, will not exceed ten million (\$10,000,000.00) dollars.

FINANCIAL STATEMENTS:

If applicable, Lessee shall furnish Lessor with its financial statement for the last three (3) fiscal years and its current year fiscal budget.

AUTHORIZED SIGNORS:

The Lessee's governing board shall provide MLC with its resolution or ordinance authorizing this Agreement and shall designate the individual(s) to execute all necessary documents used therein.

LEGAL OPINION:

The Lessee's counsel shall furnish MLC with an opinion of counsel letter covering this transaction and the documents used herein.

REIMBURSEMENT:

If Lessee intends to be reimbursed for any equipment cost associated with this agreement, intent for reimbursement from the proceeds of this Agreement must be evidenced, and must qualify under the Treasury Regulation Section 1.150.2.

DOCUMENTATION:

All documentation will be provided by Lessor, its Agents or Assignee, and must be satisfactory to all parties concerned.

ESCROW FUNDING:

- *If applicable*, an interest-bearing escrow account will be established to make disbursements. The proceeds of the lease will be deposited into an Escrow Account. The fee on this account will be \$250.00.

We will need the following prior to disbursements from escrow:

1. Payment Request and Acceptance Certificate signed by authorized signer
2. Vendor Invoice with payment instructions (wire or check)
3. W-9 for Vendor
4. Energy Project – Payment and Performance Bonds and an original Dual Obligatee Rider listing the bank, signed by all parties
5. Insurance Certificate – Listing the applicable property and liability coverage and listing the lease number, equipment and any serial numbers.

PREPAYMENT OPTION:

The Lessee will have the option to prepay on any payment date for 102% of the remaining balance.

BASIS OF PROPOSAL:

This proposal is based upon financing being provided by Lessor and should not be construed nor relied upon as a commitment. Such a commitment is subject to formal credit review, approval and execution of mutually acceptable documentation. The contract, and not the proposal, will set forth the agreement between the parties.

We appreciate the opportunity to provide this proposal and look forward to working with you in the future. If the foregoing meets with the Town's approval, please date and sign the acceptance below and return the signed proposal to the undersigned via email or fax to 802-372-4775 and subsequently remit payment of \$695.00 for the Documentation Fee. Failure to consummate this transaction once credit approval is granted will result in a \$695.00 fee being assessed to the Town. Formal credit approval will be pursued upon receipt of the signed proposal and complete credit package. Credit approval normally takes **ten (10) to fourteen (14) business days**.

If you have any questions or need further information, please do not hesitate to contact me at 802-372-8435.

The foregoing is acknowledged and accepted as of the _____ day of _____, 2018.

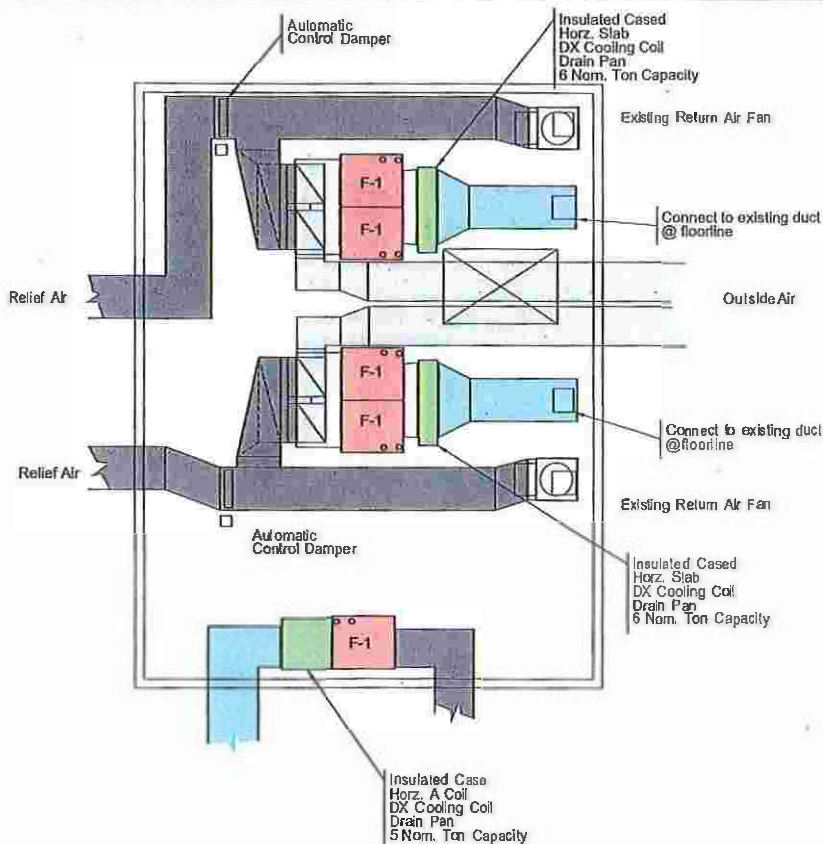
Town of Newmarket, NH

By: _____

Title: _____

Sincerely,
Reneé Piche

Reneé M. Piché
President



All duct shall be constructed in accordance with SMACNA standards and seal to class A rating. Ductwork shall be wrapped with R-8 foil faced fiberglass insulation with staple sewn seams and foil taped.

Existing equipment shall be demo'd and removed

Reconnect existing fire alarm controls to equipment and interconnect smoke detectors in shutdown of the equipment

Include necessary gas piping to reconnect new furnaces

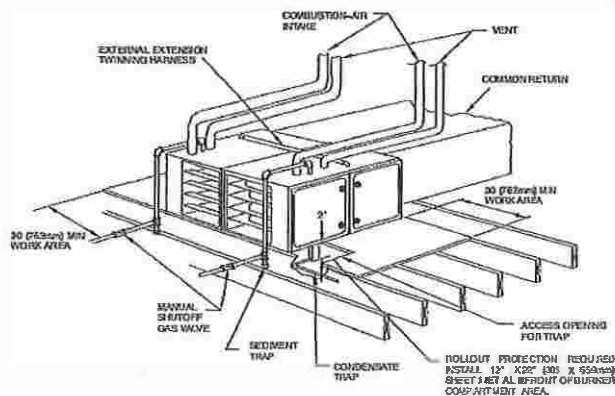
F-1 Carrier Condensing Gas Furnace
Mod. 58SP5A
120 MBH 98.6% Eff.
1,825 CFM @ 0.7 ESP
Flat Filter Section
Mixing Box with Economizer Controls
Carrier accessory twinning kit

PVC Combustion Air and Vent Exhaust up thru roof

Hang with neoprene vibration isolation

(Not Shown)
(2) Condensing Unit
Carrier 38AUZ
6 ton nominal condensing unit with new refrigerant lines

(1) Condensing Unit
Carrier
6 ton nominal condensing unit



CHARTERED JANUARY 1, 1991

FOUNDED DECEMBER 15, 1727



TOWN OF NEWMARKET, NEW HAMPSHIRE
By the Newmarket Town Council

Resolution #2017/2018 - 38
Fire Department Motorola Mobile Radios

- WHEREAS,** the existing radios are 15 years old and are no longer supported by Motorola due to their age, and the only fix is to update them with current technology; and
- WHEREAS,** any fire or police agency in Rockingham County is eligible to get mobile radios at 50% off with free installation until July 31, 2018; and
- WHEREAS,** the Fire Department Capital Reserve Fund currently has \$185,086 available for equipment purchases.

NOW, THEREFORE, BE IT RESOLVED BY THE NEWMARKET TOWN COUNCIL THAT:

The Town Council authorize the purchase of six (6) Motorola mobile radios from 2-Way Communication Service in the amount of \$16,779.00.

First Reading: March 14, 2018

Second Reading: March 28, 2018

Approval:

Approved: _____
 , Chair Newmarket Town Council

A True Copy Attest: _____
 Terri Littlefield, Town Clerk



TOWN HALL
186 MAIN STREET
NEWMARKET, NH 03857

TEL: (603) 659-3617
FAX: (603) 659-8508

FOUNDED DECEMBER 15, 1727
CHARTERED JANUARY 1, 1991

TOW NOFN EWMARKET, NEW HAMP SHIRE

STAFF REPORT

DATE March, 2018

TITLE: Resolution #2017/2018-38 - Motorola Mobile Radios

PREPARED BY: Rick Malasky, Fire Chief

TOWN ADMINISTRATOR'S COMMENTS-RECOMMENDATION:

I recommend passage of this resolution.

BACKGROUND: The existing mobile radios are 15 years old and are no longer supported by Motorola due to their age. There have been recent operational issues with the radios and the only fix is to update them with current technology. The radios were in the capital reserve to be replaced this year.

DISCUSSION: Until July 31, 2018, any fire or police agency in Rockingham County is eligible to get mobile radios at 50% off with free installation due to a mistake with Motorola's software update for Rockingham County Dispatch. 2-Way Communications Service has the State bid pricing for the new Motorola radios. I have attached the supporting documentation from Motorola and 2-Way Communications Service.

FISCAL IMPACT: The Fire Department capital reserve account currently has \$185,086 available for equipment purchases.

RECOMMENDATION: I recommend that the Town Council approve the purchase of six Motorola mobile radios from 2-Way Communication Service in the amount of \$16,779.

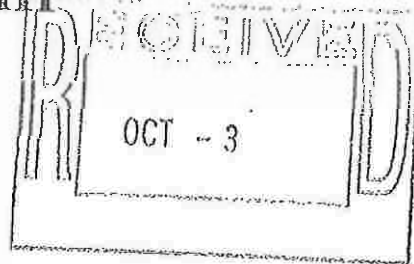
STAFF REPORT



Michael G. Hureau
High Sheriff

Office of the Sheriff

Rockingham County



September 28, 2017

Newmarket Fire Department
Attn: Chief Rick Malasky
4 Young Lane
Newmarket, NH 03857

Dear Chief Malasky:

Recently, Rockingham County Sheriff's Office undertook a major project with Motorola to upgrade our radio transmitter sites for better reception when dispatching for fire calls. In doing so, Motorola suggested a changeover to Linear Simulcast Modulation on the digital (police) side to greatly improve coverage throughout the county. This changeover required a software reprogram to the radios. Motorola assured us that the changeover would work with all existing radios. Unfortunately, this was not the case.

Please refer to the attached letter from Motorola for a full explanation of what occurred during the changeover.

Because the modulation change was not possible with older Motorola Astro Spectra mobile radios, Motorola is offering a 50% discount off the retail price on new radios, along with free removal and installation. See the attached radio offers. This offer is being made to all police and fire agencies within Rockingham County. The program begins November 1, 2017 and ends July 31, 2018.

This is an opportunity for any police or fire agency within Rockingham County planning to purchase new mobile radios during this period to receive the discount. Regrettably, the offer does not apply to portable radios. I have been advised that all Motorola vendors are aware of this offer.

*****For the police agencies for which Rockingham County dispatches, it is crucial that Motorola Astro Spectra mobile radios be removed from service prior to the modulation changeover.**

The changeover can only take place when all Motorola Astro Spectra mobile radios have been replaced or removed from service. ***

Please note that this modulation change only impacts the digital (police) side of the system. It does not affect the Seacoast fire (analog) side.

Please feel free to contact me with any questions or concerns.

Sincerely,

Michael G. Hureau

MGH/mdb

Enclosures



Upgrade Program

ALL ROCKINGHAM COUNTY AGENCIES USING ASTRO SPECTRA MOBILE RADIOS

September 26th, 2017

TO: Rockingham County Municipalities

In Spring of 2017, Motorola Solutions and Rockingham County Sheriff's Department began making preparations to convert the existing radio system to Digital Linear Simulcast, with a goal to increase radio coverage and audio quality throughout the county. Multiple departments were made aware of this change before testing, and were asked by the Sheriff's Dept and Motorola to re-program their existing mobile radios for the new modulation. During testing it was discovered that agencies using the Astro Spectra Mobile Radios were unable to hear the audio when scanning the Rockingham County Sheriff's radio channel. We are aware that the scan feature is critical to the operation of departments that work and communicate with the Rockingham County Sheriff's Department.

Motorola looked into the issue and it was discovered that the scan function is not supported by our legacy Astro Mobiles in Linear Simulcast, as the Astro Spectra's stopped shipping in 2002 and stopped being supported as of 2010. As a result, the system will continue to operate in the old C4FM Modulation until all Astro Spectra mobiles in the county are upgraded.

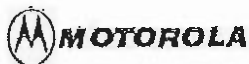
We understand your frustration, and in an effort to help move this project forward Motorola is offering **50% off MSRP on our latest generation APX Mobile Radios, plus free removal and installation.** Included are spec sheets for the eligible mobiles: APX1500, APX4500, APX6500/II, APX7500 and APX8500.

This program is available 10/1/2017 through 7/31/2018. Signed PO's, or Notice to Proceed Letters must be received within this time period to be eligible for this offer. I encourage you to reach out to your Authorized Manufacturer Representative, or contact me directly, to determine what tier and options best suite your needs. We can provide pricing and lease packages available through Motorola. Only towns within the County and Rockingham County Sheriff's Dept. are eligible.

Sincerely,

A handwritten signature in black ink, appearing to read 'Scott Cruikshank'.

Scott Cruikshank
MOTOROLA SOLUTIONS
(978) 270-5505
scott.cruikshank@motorolasolutions.com



Newmarket Fire Department
 Chief Rick Malasky
 4 Young Lane
 Newmarket, NH 03857
 603-436-9441

APX Mobile Premise - Rock County Only							
DESCRIPTION	MODEL	APC	QTY	LIST	DCST	D. EXT.	D. TOTAL
APX6500 VHF HIGH POWER	M25KTS9P V12AN	527	2	\$ 2,984.00	50%	\$ 1,492.00	\$ 2,984.00
ADD: ASTROCAL	G806	656	2	\$ 515.00	50%	\$ 257.50	\$ 515.00
ADD: CONVENTIONAL	G48	527	2	\$ 500.00	50%	\$ 250.00	\$ 500.00
ADD: APX OS CONTROL HEAD	G44N	656	2	\$ 432.00	50%	\$ 216.00	\$ 432.00
APX Control Head Software	G444	656	2	\$ -	50%	\$ -	\$ -
ADD: Standard Palm Mic	W22	471	2	\$ 72.00	50%	\$ 36.00	\$ 72.00
ADD: 15w Water Resistant Speaker	G831	656	2	\$ 60.00	50%	\$ 30.00	\$ 60.00
ADD: 3 YEAR SES	G24	185	2	\$ 131.00	50%	\$ 65.50	\$ 131.00
ADD: RF PREAMP	V12	656	2	\$ 65.00	50%	\$ 32.50	\$ 65.00
APX6500 VHF HIGH POWER	M25KTS9P V12AN	527	4	\$ 2,984.00	50%	\$ 1,492.00	\$ 5,968.00
ADD: ASTROCAL	G806	656	4	\$ 515.00	50%	\$ 257.50	\$ 1,030.00
ADD: CONVENTIONAL	G48	527	4	\$ 500.00	50%	\$ 250.00	\$ 1,000.00
ADD: APX OS CONTROL HEAD	G442	656	4	\$ 432.00	50%	\$ 216.00	\$ 864.00
APX Control Head Software	G444	656	4	\$ -	50%	\$ -	\$ -
ADD: DUAL-CONTROL HD HARDWARE	GAC0092	565	4	\$ 570.00	50%	\$ 285.00	\$ 1,140.00
ADD: REMOTE MOUNT C.B. 130 FEET	G610	610	8	\$ 25.00	50%	\$ 12.50	\$ 100.00
ADD: Standard Palm Mic	W22	471	8	\$ 72.00	50%	\$ 36.00	\$ 288.00
ADD: 15w Water Resistant Speaker	G831	656	8	\$ 60.00	50%	\$ 30.00	\$ 240.00
ADD: 3 YEARSES	G24	185	4	\$ 131.00	50%	\$ 65.50	\$ 262.00
ADD: RF PREAMP	V12	656	4	\$ 65.00	50%	\$ 32.50	\$ 132.00
Installation of APX112 radios	INSTALL	185	5	\$ 270.00	50%	\$ -	\$ -
TOTAL						\$ 16,779.00	\$ 16,779.00

ORDERING

PLEASE CONTACT
 Nicholas Hamel
nhamel@2-way.biz

DELIVERY

15-30 DAYS
 NASPO Valuepoint

TERMS

NET 30 FROM INVOICE AS SHIPPED

Department:		Fire & Rescue		Type of Equipment:		Personal Protective Equipment					
Description	Year Acquired	Replacement Cost	Year	Mileage	FY 16/17	FY 17/18	FY 18/19	FY 19/20	FY 20/21	FY 21/22	Total
1 (24) Scott SCBA	2016	213,940	2028		\$ 75,257.00	\$ 75,257.00	\$ 75,257.00	\$ 17,828.00	\$ 17,828.00	\$ 17,828.00	\$ 279,245.00
2 (3) Thermal Imaging	2014	39,000	2024		\$ 3,900.00	\$ 3,900.00	\$ 3,900.00	\$ 3,900.00	\$ 3,900.00	\$ 3,900.00	\$ 23,400.00
3 (8) Mobile Radios	2001	40,000	2017		\$ 40,000.00	\$ 4,000.00	\$ 4,000.00	\$ 4,000.00	\$ 4,000.00	\$ 4,000.00	\$ 50,000.00
4 (30) Portable Radios	2003	126,000	2018		\$ 42,000.00	\$ 42,000.00	\$ 42,000.00	\$ 14,700.00	\$ 14,700.00	\$ 14,700.00	\$ 170,100.00
5											
6											
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15											
16											
17											
18											
19											
20											
Balance in Capital Reserve Fund		0	Proposed Funding		161,157.00	125,157.00	125,157.00	40,428.00	40,428.00	\$ 40,428.00	532,755.00
Items to be replaced in FY 16/17		Make /Model			Previous Year Repair /Maintenance Cost		Estimated Disposable Value				
1 (8) Mobile Radios		Motorola			\$ - 5,249.00		N/A				
2 (10) Portable Radios		Motorola			\$ 7,236.00		N/A				
3											
4											

2/1/2018

CS

Trustee Acct # 108200290877

Town of Newmarket
Capital Reserve
Fire Dept. Equipment & Vehicle Replacement
FY 17/18

	<u>Year Acquired</u>	<u>Year of Vehicle</u>	<u>Year Replace</u>	<u>Replace Cost</u>	<u>Balance 7/1/2017</u>	<u>FY 17/18 Additions</u>	<u>Resolution Number</u>	<u>Withdrawals FY 17/18 Resolutions</u>	<u>Remaining Balance</u>
<u>Fire Vehicle</u>									
E1 - Freightliner FL70 Pumper	1998/1999	1999	2018/2019	500,000	121,066	50,000			171,066
L2 HME	2009/2010	2009	2029/2030	700,000					0
Tanker 4 Spartan	2005/2006	2006	2025/2026	500,000					0
F1 - Ford F350 (Forestry)	2005	2005/2006	2023/2024	85,000					0
Thermal Imaging Cameras			2017/2018	20,000			17/18-07	-19,550	0
Zodiac Rescue Boat									-19,550
<u>Fire Equipment</u>									
Thermal Imager (3)	2014		2023/2024	39,000					0
24 - Scott SCBA @ 6,000 2nd yr	2016		2027/2028	213,940					0
24 - Scott SCBA @ 6,000 3rd yr									0
8- Mobile Radios	2001		2016/2018	40,000					0
35 - Portable Radios @ 3,900	2003		2017/2018	126,000					0
Interest					33,019	551			0
Total				2,223,940	154,085	50,551		-19,550	185,086

Lease purchase Scott SCBA's two more years on lease \$150,513.95 deducted from 15/16 capital reserve not in bank statement



TOWN OF NEWMARKET, NEW HAMPSHIRE
By the Newmarket Town Council

Resolution #2017/2018 - 39

Purchase 2018 Ford F350 4X4 Truck with Plow

- WHEREAS,** Truck 4 is a 2004 Ford 250 4X4 with a plow with 141,978 miles. Repairs to the truck for State inspection this year would exceed \$10,000.00; and
- WHEREAS,** the State Bid Price from Grappone Ford for a 2018 Ford F350 pickup truck with a plow is \$35,389.
- WHEREAS,** the Public Works Capital Reserve Fund currently has \$331,309 available for equipment purchase.

NOW, THEREFORE, BE IT BE RESOLVED BY THE NEWMARKET TOWN COUNCIL, THAT:

The Town Council authorize the purchase of the 2018 Ford F350 truck with plow from Grappone Ford for \$35,389.

First Reading: March 14, 2018

Second Reading: March 28, 2018

Approval:

Approved: _____
 , Chair Newmarket Town Council

A True Copy Attest: _____
 Terri Littlefield, Town Clerk



TOWN HALL
186 MAIN STREET
NEWMARKET, NH 03857

TEL: (603) 659-3617
FAX: (603) 659-8508

FOUNDED DECEMBER 15, 1727
CHARTERED JANUARY 1, 1991

TOWN OF NEWMARKET, NEW HAMPSHIRE


STAFF REPORT

DATE March, 2018

TITLE: Resolution #2017/2018-39-2018 Ford F350 4X4 Truck with Plow

PREPARED BY: Rick Malasky, Director Public Works

TOWN ADMINISTRATOR'S COMMENTS-RECOMMENDATION:

I recommend passage of this resolution 

BACKGROUND: Truck 4 is a 2004 Ford F250 4X4 with a plow with 141,978 miles. This truck has been scheduled to be replaced on a 12- year schedule, however we were able to get two more years out of it than expected. Auto Excellence has evaluated the truck and recommends replacing it. Repairs to get the truck to pass inspection this year would exceed \$10,000.

DISCUSSION: I received State Bid Price from Grappone Ford for a new Ford F350 pickup truck with a plow for \$35,389. The current 2004 Ford F250 will be sold in the spring at the state auction in Concord. I have attached a letter from Auto Excellence recommending not repairing this truck but replacing it.

FISCAL IMPACT: The Public Works Capital Reserve Account currently has \$331,309 available for equipment purchases.

RECOMMENDATION: I recommend that the Town Council approves the purchase of the 2018 Ford F350 with plow from Grappone Ford for \$35,389

STAFF REPORT



Grappone Ford
530 Route 3A, Bow, New Hampshire, 033043104
Office: 603-224-2501
Fax: 603-226-8266

Rick Malasky
Town of Newmarket
186 Main St
Newmarket, NH 03857
Office: 603-765-1106
Email: rmalasky@newmarketnh.gov

Re: Vehicle Proposal

Hi Rick,

February 20th, 2018

Per your request, quote for 2018 Ford F-350 XL Regular Cab 4x4 Pickup. Quote will include Fisher 8.5' Ft XV2 Stainless Steel plow installed on truck. I have attached a vehicle profile for you to review, let me know if you need anything else. State Bid Pricing. Thank you.

State Bid Price "less Diesel Engine"	\$25,582
All Terrain Tires	165
Electronic-Locking Axle	390
Power Group	915
Trailer Brake Controller	270
Running Boards	320
LED Clearance Lights	95
Spray In Bedliner	540
Upfitter Switches	165
Sync "Bluetooth"	365
Fisher 8.5' XV2 Stainless Steel Plow	6,582

Total Price:	<u>\$35,389</u>
--------------	-----------------

Sincerely,

Jeff Harsin
Fleet Mgr
603-226-8010
jharsin@grappone.com

Auto Excellence
20 North Main Street
Newmarket, N.H 03857
603-659-8300

February 21, 2018

To whom it may concern,

In regards to Truck #4- 2004 Ford F-250

Miles: 141,990

Plate: G17141

Auto Excellence recommends that the truck be replaced. It will not pass inspection. We would need to replace the transmission lines and replace the bed due to rusting out. It also needs both front fenders replaced. Also needs floor board repair.

Estimate for repair: \$5,500.00

Newmarket Capital Improvement Program (CIP) Capital Equipment Request Form

Department:		Type of Equipment:									
Item #	Description of Equipment and Vehicles	Year Acquired	Replacement		Mileage	FY					Total
			Cost	Year		16/17	17/18	18/19	19/20	20/21	
1	#1 Ford F350 w/plow	2015	35,000	2025/2026	15,235	3500.00	3500.00	3500.00	3500.00	3500.00	21000.00
2	#4 Ford F250 w/plow	2004	35,000	2015/2016	126,623	3500.00	3500.00	3500.00	3500.00	3500.00	147623.00
3	#10 Ford F450 One Ton w/plow	2008	75,000	2018/2019	48,348	7500.00	7500.00	7500.00	7500.00	7500.00	45000.00
4	#20 Ford F450 One Ton w/plow	2003	75,000	2013/2014	76,594	7500.00	7500.00	7500.00	7500.00	7500.00	45000.00
5	#14 John Deere Loader	2006	95,000	2017/2018	3,657	9500.00	9500.00	9500.00	9500.00	9500.00	57000.00
6	#32 John Deere Backhoe	2013	95,000	2023/2024	632	9500.00	9500.00	9500.00	9500.00	9500.00	57000.00
7	#5 Freightliner Dump/Plow/Sander	2005	146,000	2016/2017	42,788	12166.00	12166.00	12166.00	12166.00	12166.00	72996.00
8	#6 Intl. Dump/Plow/Sander	2015	146,000	2016/2017	1,530	12166.00	12166.00	12166.00	12166.00	12166.00	72996.00
9	#7 Freightliner Dump/Plow/Sander	2008	146,000	2020/2021	24,255	12166.00	12166.00	12166.00	12166.00	12166.00	72996.00
10	#9 Intl. Dump/Plow/Sander	2012	146,000	2024/2025	11,652	12166.00	12166.00	12166.00	12166.00	12166.00	72996.00
11	#11 Freightliner Dump/Plow/Sander	2005	146,000	2017/2018	48,015	12166.00	12166.00	12166.00	12166.00	12166.00	72996.00
12	#17 Johnson Sweeper	1999	160,000	2019/2020	2,064	8000.00	8000.00	8000.00	8000.00	8000.00	48000.00
13	#21 Trackless MT-5 Tractor	2013	140,000	2023/2024	582	14000.00	14000.00	14000.00	14000.00	14000.00	84000.00
14	#42 Trackless MT-5 Tractor	2010	140,000	2020/2021	1,138	14000.00	14000.00	14000.00	14000.00	14000.00	84000.00
15	#16 Mack Roll-off	1993	140,000	2015/2016	364,453	9334.00	9334.00	9334.00	9334.00	9334.00	56004.00
16	#24 Mahindra Tractor	2015	30,000	2030/2031	80	1667.00	1667.00	1667.00	1667.00	1667.00	10002.00
17	Silverado 1500 Pickup	2015	24,000	2028/2029	160	2000.00	2000.00	2000.00	2000.00	2000.00	12000.00
18	#38 Bucket Truck	1993	80,000	2014/2015	116,597	4000.00	4000.00	4000.00	4000.00	4000.00	24000.00
19	#15 Ford F150 Pickup	2011	24,000	2023/2024	21,750	2000.00	2000.00	2000.00	2000.00	2000.00	12000.00
20	#47 Intl. Vac-Con	2004	88,000	2016/2017	6,692	7334.00	7334.00	7334.00	7334.00	7334.00	46004.00
Total Funding:						164165.00	164165.00	164165.00	164165.00	164165.00	1111613.00

Items to be replaced in FY16/17		Make/Model		Previous Year Repair/Maintenance Cost		Estimated Disposable Value	
1	#38 Bucket Truck	Chevy 3500		\$ 985.00		\$ 500.00	
2	#16 Mack Roll-off	Mack		\$ 9,188.00		\$ 5,000.00	
3	#4 Ford F250 w/plow	Ford		\$ 1,759		\$ 1,500.00	
4							

2/1/2018
CS

Trustee Acct# 108200290876

Town of Newmarket
Capital Reserve
Vehicle Replacement
FY 17/18

	<u>Year Acquired</u>	<u>Year of Vehicle</u>	<u>Year Replace</u>	<u>Replace Cost</u>	<u>Balance 7/1/2017</u>	<u>FY 17/18 Additions</u>	<u>Resolution Number</u>	<u>Withdrawals FY 17/18 Resolutions</u>	<u>Remaining Balance</u>
<u>Public Works Vehicle</u>					414,905	50,000			464,905
1 Ford F250 w/plow	2015	2015	2025/2026	35,000					0
4 Ford F250 w/plow	2004	2004	2015/2016	35,000					0
10 Ford F450 One Ton w/plow	2008	2008	2018/2019	75,000					0
20 Ford F450 One Ton w/plow	2003	2003	2013/2014	75,000					0
14 John Deere Loader	2006/2007	2007	2017/2018	95,000					0
32 John Deere Backhoe	2013/2014	2013	2023/2024	95,000					0
5 Freightliner Body/Plow/Sander	2004/2005	2005	2016/2017	146,000					0
Intl. 7400 FA Dump Body/Plow/Sander	2014/2015	2015	2016/2017	146,000					0
7 Freightliner Dump Body/Plow/Sander	2007/2008	2008	2020/2021	146,000					0
9 Intl. Dump Body/Plow/Sander	2011/2012	2012	2024/2025	146,000					0
11 Freightliner Body/Plow/Sander	2004/2005	2005	2017/2018	146,000					0
17 Johnson Sweeper	1998/1999	1999	2019/2020	160,000					0
21 Trackless MT5 Tractor	2013/2014	2013	2023/2024	140,000					0
42 Trackless MT5 Tractor	2009/2010	2010	2020/2021	140,000					0
16 Mack Roll-Off	1993	1993	2015/2016	140,000					0
Mahindra 1538HC Tractor	2014/2015	2015	2030/2031	30,000			17/18-6	-165,237	-165,237
2015 Chevrolet Silverado	2014/2015	2015	2028/2029	24,000					0
38 Chevy Bucket Truck	1993	1993	2014/2015	80,000					0
15 Ford F150 2-wheel p/u	2011/2012	2012	2023/2024	24,000					0
47 International Vac-Con	2004/2005	2004	2016/2017	88,000					0
John Deere Mini Excavator			2017/2018	55,000					0
Interest					30,756	885			31,641
Total				2,021,000	445,661	50,885		-165,237	331,309



TOWN OF NEWMARKET, NEW HAMPSHIRE
By the Newmarket Town Council

Resolution #2017/2018 - 40

Authorizing the Town Administrator to withdraw \$25,000.00 from Buildings and Improvements Capital Reserve fund for required infrastructure repairs/upgrades to the Community Center:

- WHEREAS:** it has been determined that our HVAC systems have exceeded their life expectancy and currently requires major repairs, our lighting systems are very inefficient, our building envelope needs sealing/insulation, and
- WHEREAS:** the Director of Facilities requested proposals for Performance Contracting Services from Energy Efficient Investments based on Resolution #2017/2018-25 for an energy audit after a major equipment failure, and
- WHEREAS:** the Town Administrator recommends that the Town authorize a withdrawal of \$25,000.00 from the Buildings and Improvements Capital Reserve fund to help offset the costs of needed infrastructure repairs/upgrades requested in Resolution #2017/2018-35, and

NOW, THEREFORE, BE IT RESOLVED BY THE NEWMARKET TOWN COUNCIL THAT:

The Town Council authorizes the Town Administrator withdraw \$25,000.00 from the Buildings and Improvements Capital Reserve fund to offset expenses related to necessary infrastructure repairs/upgrades to the Community Center requested under Resolution #2017/2018-35 adjusting the financial impact to \$149,794.00 including rebates. The current Buildings and Improvements Capital Reserve fund balance is \$145,760.00 not including Resolution #2017/2018-36 and #2017/2018-37 requested amounts of \$17,768.00. If all three (3) resolutions are approved the resulting balance will be \$102,992.00.

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TOWN HALL
186 MAIN STREET
NEWMARKET, NH 03857

TEL: (603) 659-3617
FAX: (603) 659-8508

FOUNDED DECEMBER 15, 1727
CHARTERED JANUARY 1, 1991

TOWN OF NEWMARKET, NEW HAMPSHIRE

STAFF REPORT

DATE: March 1, 2018

TITLE: Community Center repairs/upgrades with Performance contracting
Resolution: 2017/2018-35, 40 & 41

PREPARED BY: Greg Marles, Director of Facilities

TOWN ADMINISTRATOR'S COMMENTS-RECOMMENDATION:

I recommend its approval and request to suspend the rules to act on it this evening.

BACKGROUND:

We had one (1) of the three (3) warm air furnaces suffer a cracked heater exchanger allowing products of combustion to enter the space. We have shut down and locked out the failed equipment for safety reasons and have been limping along with two units to condition the space. The two units cannot keep up with the demands and several areas of the facility remain cold. We have looked into a replacement heat exchanger for the failed unit which has been currently out of production for the past 10 years. In order to replace the exchanger we would have to have one custom made with a 4 to 6 week delivery period. This unit is 25 years old, with one other matching unit the same age, and the last unit being 27 years old. We are very concerned with the operating condition of the two remaining units given the overall condition and age. All three of these units have been out of production for at least 10 years and have exceeded their life expectancy. This also holds true for two of the three outside condensing units that provide cooling for the building. We are asked Energy Efficient Investments to conduct a full energy audit for the facility looking at ways to use energy efficient upgrades to help offset the costs of replacing the heating and cooling systems within the building. They have provided us with energy saving options to upgrade the lighting, HVAC, and building envelope.

DISCUSSION:

Our existing HVAC and lighting systems are out of date, in need of major repairs, and they have exceeded their useful life expectancy. Energy Efficient Investments has provided us with a Performance Contract to upgrade these systems and tighten the building envelope for a total cost of \$188,844.00. These repairs/upgrades would provide us not only with energy savings but provide us with an average life expectancy of 25 years. We would also like to request that this project be approved in a single session as we do have a major equipment failure in the facility which puts us at risk in freezing conditions.

FISCAL IMPACT:

We recommend \$25,000.00 in funds to be withdrawn from Buildings and Improvements Capital reserve fund to reduce the impact of the project to \$163,844.00 with an additional projected rebate amount of \$14,050.00 from different agencies or a balance of \$149,794.00. It would be our recommendation that we enter into a municipal lease with Municipal Leasing Consultant for a 10 year period at 3.98%APR creating an annual lease payment of \$18,182.04 with \$3,940.00 of energy savings to be used to reduce the annual payment to \$14,242.04. Energy Efficient Investments will guarantee the energy saving in fuel and electricity operating cost reduction. This allows for these saving to help offset the overall cost impacts of the project. The payment for the \$18,182.04 would come from heating energy reductions, electricity reductions and the remaining from Building and Grounds Operations Budget.

RECOMMENDATION:

We recommend that we engage with Energy Efficient Investments to do the necessary repairs/upgrades to our systems and building envelope, drawn \$25,000.00 from our Buildings and Improvements Capital Reserve fund, and enter into a municipal lease with Municipal Leasing Consultants of Grand Isle, Vermont.

DOCUMENTS ATTACHED:

EI Performance agreement and scope of work
Amortization Schedule
Buildings and Improvements Capital Fund balance report
Municipal Leasing Consultants report



TOWN OF NEWMARKET, NEW HAMPSHIRE
By the Newmarket Town Council

Resolution #2017/2018 - 41

Authorizing the Town Administrator to enter into an agreement with Municipal Leasing Consultants of Grand Isle, Vermont for a 10 year municipal lease for capital repairs/upgrades to the Community Center:

- WHEREAS:** it has been determined that our HVAC systems have exceeded their life expectancy and currently requires major repairs, our lighting systems are very inefficient, our building envelope needs sealing/insulation, and
- WHEREAS:** the Director of Facilities requested proposals from Energy Efficient Investments, Inc. for a Performance Contract based on an prior approved Resolution #2017/2018-25 for energy auditing services, and
- WHEREAS:** the Town Administrator recommends that the Town enter into an agreement with Municipal Leasing Consultants for a 10 year lease in the amount of \$149,794.00 based on the cost of infrastructure repairs/upgrades in Resolution #2017/2018-35, and

NOW, THEREFORE, BE IT RESOLVED BY THE NEWMARKET TOWN COUNCIL THAT:

The Town Council authorizes the Town Administrator to enter into an agreement with Municipal Leasing Consultant of Grand Isle, Vermont for a 10 year municipal lease for repairs/upgrades to the Community Center with a projected annual payment of \$18,182.04 based on an interest rate of 3.98% APR. The annual payment will be offset by additional energy reduction cost savings of \$3,940.00 providing for an annual net payment of \$14,242.04 for a period of 10 years. The annual payments will be covered by Building and Grounds General Operating Funds. There is a projected additional savings of \$59,100.00 based on a 25 year life expectancy.

RECEIVED

MAR -2 2018

TOWN OF NEW MARKET
ADMINISTRATOR'S OFFICE



APPLICATION FOR APPOINTMENT TO A BOARD,
COMMISSION, OR COMMITTEE POSITION WITHIN THE
TOWN OF NEWMARKET

Applicant's Name: HENRY M. SMITH

Address: 1118 BENNETT WAY Phone/Cell 659-8396

RSA 669:19 Newmarket Registered Voter: ☒ Yes ☐ No # of Years as Resident: 12 years
RSA 91:2 Are you an American Citizen? ☒ Yes ☐ No

Email address: hm.smith@unh.edu

Full membership (1 year term) position applying for Maclean Dam Committee

State what the new term expiration date is: March 2019

Alternate position (3 year term) position applying for _____

State what the new term expiration date is: _____

I feel the following experience and background qualifies me for this position: _____

Durham Town Govt. 2001-2013:

ZBA / Town Council / D. Dist.

Commission

Wiswall Dam Committee
(need more room, please use the back)

Signature Henry M. Smith Date 2 March 2018

You are welcome to submit a letter or resume with this form. Applicants are requested to attend the Council meeting to address the Town Council prior to the decision making process. Applicants will be notified of the time and date of this meeting in advance. Thank you for your application and interest in the Town of Newmarket.



RECEIVED

MAR -6 2018

TOWN OF NEW MARKET

APPLICATION FOR APPOINTMENT TO A BOARD,
COMMISSION, OR COMMITTEE POSITION WITHIN THE
TOWN OF NEWMARKET

Applicant's Name: MICHAEL A. PELCZAR

Address: 11 Stonewall Way, Newmarket Phone/Cell 603-817-9662

RSA 669:19 Newmarket Registered Voter: ☒ Yes ☐ No # of Years as Resident: 37

RSA 91:2 Are you an American Citizen? ☒ Yes ☐ No

Email address: SIXSIXZAR@AOL.COM

Full membership (3 year term) position applying for CEMETERY TRUSTEE

State what the new term expiration date is: MARCH 2021

Alternate position (3 year term) position applying for _____

State what the new term expiration date is: _____

I feel the following experience and background qualifies me for this position: _____

I HAVE ALREADY SERVED MANY YEARS AS A CEMETERY TRUSTEE,

I HAVE WORKED AT KENT & PELCZAR FUNERAL HOME SINCE 1997

AND HAVE FIRST HAND KNOWLEDGE OF OUR CEMETERY AND THE CEMETERIES

IN THE NEIGHBORING TOWNS AND THEIR RULES AND REGS. I CURRENTLY (over)
(need more room, please use the back)

Michael Pelczar
Signature

MARCH 1, 2018
Date

You are welcome to submit a letter or resume with this form. Applicants are requested to attend the Council meeting to address the Town Council prior to the decision making process. Applicants will be notified of the time and date of this meeting in advance. Thank you for your application and interest in the Town of Newmarket.



APPLICATION FOR APPOINTMENT TO A BOARD,
COMMISSION, OR COMMITTEE POSITION WITHIN THE
TOWN OF NEWMARKET

Applicant's Name: Drew Kiefaber

Address: 50 Elm Street Phone/Cell 659-6124

RSA 669:19 Newmarket Registered Voter: Yes No # of Years as Resident: ~ 30 yrs
RSA 91:2 Are you an American Citizen? Yes No

Email address: drew.kiefaber@gmail.com

Full membership (3 year term) position applying for _____

State what the new term expiration date is: _____

Alternate position (3 year term) position applying for Conservation Commission

State what the new term expiration date is ~~2020~~ 2021

I feel the following experience and background qualifies me for this position: _____

My long term service on the Open Space & Commission
and Conservation Commission.

(need more room, please use the back)

Signature Drew E. Kiefaber Date 15-Mar-2018

You are welcome to submit a letter or resume with this form. Applicants are requested to attend the Council meeting to address the Town Council prior to the decision making process. Applicants will be notified of the time and date of this meeting in advance. Thank you for your application and interest in the Town of Newmarket.

RECEIVED

MAR 19 2018



TOWN OF NEW MARKET
ADMINISTRATIVE SERVICES

**APPLICATION FOR APPOINTMENT TO A BOARD,
COMMISSION, OR COMMITTEE POSITION WITHIN THE
TOWN OF NEWMARKET**

Applicant's Name: James Drago

Address: 6 Hillside Lane Newmarket NH 03857 Phone/Cell 267-280-3119

RSA 669:19 Newmarket Registered Voter: ☒ Yes No # of Years as Resident: 41.5 years
RSA 91:2 Are you an American Citizen? ☒ Yes No

Email address: jamesmdrago@gmail.com

Full membership (3 year term) position applying for Zoning Board

State what the new term expiration date is: 2021

Alternate position (3 year term) position applying for _____

State what the new term expiration date is: _____

I feel the following experience and background qualifies me for this position: I have
served one full term on the Board and would like
to continue my learning and growth on the Board!

(need more room, please use the back)

Signature James Drago Date 3/19/2018

You are welcome to submit a letter or resume with this form. Applicants are requested to attend the Council meeting to address the Town Council prior to the decision making process. Applicants will be notified of the time and date of this meeting in advance. Thank you for your application and interest in the Town of Newmarket.



APPLICATION FOR APPOINTMENT TO A BOARD,
COMMISSION, OR COMMITTEE POSITION WITHIN THE
TOWN OF NEWMARKET

Applicant's Name: Phil Nazzaro

Address: 7 Raymond Lane Phone/Cell 315-489-4904

RSA 669:19 Newmarket Registered Voter: ☒ Yes No # of Years as Resident: 17 years
RSA 91:2 Are you an American Citizen? ☒ Yes No

Email address: Philip.Nazzaro@yahoo.com

Full membership (3 year term) position applying for Veteran's Memorial Trust Committee

State what the new term expiration date is: March 2021

Alternate position (3 year term) position applying for _____

State what the new term expiration date is: _____

I feel the following experience and background qualifies me for this position: I am a

veteran & have served on this committee since 2009.

I would like to see the New Memorial project

through to fruition

(need more room, please use the back)

Signature

19 March 18

Date

You are welcome to submit a letter or resume with this form. Applicants are requested to attend the Council meeting to address the Town Council prior to the decision making process. Applicants will be notified of the time and date of this meeting in advance. Thank you for your application and interest in the Town of Newmarket.