



Date of Meeting: 2018 October 15

Item #: 13.a

| <b>REPORT TO:</b>  | <input type="checkbox"/> <b>Administrative Council</b> <input type="checkbox"/> <b>Program and School Services Advisory Committee</b>   |        |      |  |         |                |        |                     |        |  |        |  |        |  |         |                    |         |   |           |                               |   |              |                  |
|--|---|--------|------|--|---------|----------------|--------|---------------------|--------|--|--------|--|--------|--|---------|--------------------|---------|---|-----------|-------------------------------|---|--------------|------------------|
|  | <input type="checkbox"/> <b>Policy Working Committee</b> <input type="checkbox"/> <b>Planning and Priorities Advisory Committee</b>   |        |      |  |         |                |        |                     |        |  |        |  |        |  |         |                    |         |   |           |                               |   |              |                  |
|  | <input checked="" type="checkbox"/> <b>Board</b> <input type="checkbox"/> <b>Other:</b>   |        |      |  |         |                |        |                     |        |  |        |  |        |  |         |                    |         |   |           |                               |   |              |                  |
|  | <input checked="" type="checkbox"/> <b>PUBLIC</b> <input type="checkbox"/> <b>IN-CAMERA</b>   |        |      |  |         |                |        |                     |        |  |        |  |        |  |         |                    |         |   |           |                               |   |              |                  |
| <b>TITLE OF REPORT:</b>                                    | 2018/2019 Education Centre Renewal Projects   |        |      |  |         |                |        |                     |        |  |        |  |        |  |         |                    |         |   |           |                               |   |              |                  |
| <b>PRESENTED BY:</b>                                       | Jeff Pratt, Associate Director of Education and Treasurer, Organizational Support Services<br>Susan Mark, Superintendent Facility Services and Capital Planning<br>Carlos Henriquez, Manager Capital Projects   |        |      |  |         |                |        |                     |        |  |        |  |        |  |         |                    |         |   |           |                               |   |              |                  |
| <b>PRESENTED FOR:</b>                                      | <input checked="" type="checkbox"/> <b>Approval</b> <input checked="" type="checkbox"/> <b>Information</b> <input type="checkbox"/> <b>Advice</b>   |        |      |  |         |                |        |                     |        |  |        |  |        |  |         |                    |         |   |           |                               |   |              |                  |
| <b>Recommendation(s):</b>                                  | That the Board approves the recommended renewal projects for the Education Centre for 2018/2019 funded through unappropriated surplus for \$2,131,248   |        |      |  |         |                |        |                     |        |  |        |  |        |  |         |                    |         |   |           |                               |   |              |                  |
| <b>Purpose:</b>  | To provide the Board with a summary of the recommended renewal projects at the Education Centre based on the previous review completed by Accruent.   |        |      |  |         |                |        |                     |        |  |        |  |        |  |         |                    |         |   |           |                               |   |              |                  |
| <b>Content:</b>  | <p>As part of the Ministry's School Facility Condition Assessment Program, the Ministry has retained third-party facility assessors to conduct non-invasive inspections of school facilities across the province. The Education Centre was reviewed in 2015 by a team of engineers from Accruent.</p> <p>Observations and recommendations from their review has been input into their capital planning software VFA facility. The report and a summary of components identified for replacement or further study is attached along with a budget replacement cost.</p> <p>The following items are recommended to be completed in 2018/2019:</p> <table border="1"> <thead> <tr> <th>System</th> <th>Cost</th> </tr> </thead> <tbody> <tr> <td>Elevators &amp; Lifts - Passenger Elevator - Hydraulic</td> <td>431,533</td> </tr> <tr> <td>Sanitary Waste</td> <td>10,200</td> </tr> <tr> <td>Rain Water Drainage</td> <td>10,200</td> </tr> <tr> <td>Chilled water distribution systems - Piping System</td> <td>10,200</td> </tr> <tr> <td>Heating water distribution systems - Piping System</td> <td>10,200</td> </tr> <tr> <td>Lighting Equipment - Emergency Lighting - Battery Back-ups</td> <td>106,099</td> </tr> <tr> <td>Fire Alarm Systems</td> <td>397,816</td> </tr> <tr> <td>Roadways (Costs Updated from Stantec Investigation)</td> <td>1,155,000</td> </tr> <tr> <td>Parking Lots (Included Above)</td> <td>0</td> </tr> <tr> <td><b>Total</b></td> <td><b>2,131,248</b></td> </tr> </tbody> </table> <p>The following items have been identified for inclusion into the 2019/2020 Budget.</p> | System | Cost | Elevators & Lifts - Passenger Elevator - Hydraulic | 431,533 | Sanitary Waste | 10,200 | Rain Water Drainage | 10,200 | Chilled water distribution systems - Piping System | 10,200 | Heating water distribution systems - Piping System | 10,200 | Lighting Equipment - Emergency Lighting - Battery Back-ups | 106,099 | Fire Alarm Systems | 397,816 | Roadways (Costs Updated from Stantec Investigation) | 1,155,000 | Parking Lots (Included Above) | 0 | <b>Total</b> | <b>2,131,248</b> |
| System   | Cost  |        |      |  |         |                |        |                     |        |  |        |  |        |  |         |                    |         |   |           |                               |   |              |                  |
| Elevators & Lifts - Passenger Elevator - Hydraulic         | 431,533   |        |      |  |         |                |        |                     |        |  |        |  |        |  |         |                    |         |   |           |                               |   |              |                  |
| Sanitary Waste   | 10,200  |        |      |  |         |                |        |                     |        |  |        |  |        |  |         |                    |         |   |           |                               |   |              |                  |
| Rain Water Drainage  | 10,200  |        |      |  |         |                |        |                     |        |  |        |  |        |  |         |                    |         |   |           |                               |   |              |                  |
| Chilled water distribution systems - Piping System         | 10,200  |        |      |  |         |                |        |                     |        |  |        |  |        |  |         |                    |         |   |           |                               |   |              |                  |
| Heating water distribution systems - Piping System         | 10,200  |        |      |  |         |                |        |                     |        |  |        |  |        |  |         |                    |         |   |           |                               |   |              |                  |
| Lighting Equipment - Emergency Lighting - Battery Back-ups | 106,099   |        |      |  |         |                |        |                     |        |  |        |  |        |  |         |                    |         |   |           |                               |   |              |                  |
| Fire Alarm Systems   | 397,816   |        |      |  |         |                |        |                     |        |  |        |  |        |  |         |                    |         |   |           |                               |   |              |                  |
| Roadways (Costs Updated from Stantec Investigation)        | 1,155,000   |        |      |  |         |                |        |                     |        |  |        |  |        |  |         |                    |         |   |           |                               |   |              |                  |
| Parking Lots (Included Above)                              | 0   |        |      |  |         |                |        |                     |        |  |        |  |        |  |         |                    |         |   |           |                               |   |              |                  |
| <b>Total</b>   | <b>2,131,248</b>  |        |      |  |         |                |        |                     |        |  |        |  |        |  |         |                    |         |   |           |                               |   |              |                  |

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|---------------------------------|--|-------------|------|---------------------|--------|---------------------------------------|--------|----------------------------|---------|-----------------------|---------|-------------------------|---------|------------------------------|-----------|---|-----------|---|--------|---|--------|-------|-------------|
|                                 | System   | Cost        |      |                     |        |                                       |        |                            |         |                       |         |                         |         |                              |           |   |           |   |        |   |        |       |             |
|                                 | Fittings - Washroom  | 84,150      |      |                     |        |                                       |        |                            |         |                       |         |                         |         |                              |           |   |           |   |        |   |        |       |             |
|                                 | Plumbing Fixtures - Washroom Fixtures  | 95,880      |      |                     |        |                                       |        |                            |         |                       |         |                         |         |                              |           |   |           |   |        |   |        |       |             |
|                                 | Roof Top Unit - Addition 1   | 150,000     |      |                     |        |                                       |        |                            |         |                       |         |                         |         |                              |           |   |           |   |        |   |        |       |             |
|                                 | Exhaust Systems  | 25,459      |      |                     |        |                                       |        |                            |         |                       |         |                         |         |                              |           |   |           |   |        |   |        |       |             |
|                                 | Air Handling Units   | 893,520     |      |                     |        |                                       |        |                            |         |                       |         |                         |         |                              |           |   |           |   |        |   |        |       |             |
|                                 | Fin Tube Radiation Units   | 1,690,344   |      |                     |        |                                       |        |                            |         |                       |         |                         |         |                              |           |   |           |   |        |   |        |       |             |
|                                 | Controls & Instrumentation (Costs Revised Based on Preliminary Investigation)  | 250,000     |      |                     |        |                                       |        |                            |         |                       |         |                         |         |                              |           |   |           |   |        |   |        |       |             |
|                                 | DX w/Air Cooled Remote Condensing Units (Thames Room)  | 38,148      |      |                     |        |                                       |        |                            |         |                       |         |                         |         |                              |           |   |           |   |        |   |        |       |             |
|                                 | Security Systems – CCTV (Pending confirmation with IT Initiative)  | 62,048      |      |                     |        |                                       |        |                            |         |                       |         |                         |         |                              |           |   |           |   |        |   |        |       |             |
|                                 | Total  | \$3,289,549 |      |                     |        |                                       |        |                            |         |                       |         |                         |         |                              |           |   |           |   |        |   |        |       |             |
|                                 | The following items have been identified for inclusion in the 2019/2020 Budget if budgets allow.   |             |      |                     |        |                                       |        |                            |         |                       |         |                         |         |                              |           |   |           |   |        |   |        |       |             |
|                                 | <table border="1"> <thead> <tr> <th>System</th> <th>Cost</th> </tr> </thead> <tbody> <tr> <td>Exterior Doors</td> <td>79,560</td> </tr> <tr> <td>Exterior Doors - Overhead Doors</td> <td>9,573</td> </tr> <tr> <td>Exterior Doors Hardware</td> <td>25,459</td> </tr> <tr> <td>Wall Finishes - Paint</td> <td>176,259</td> </tr> <tr> <td>Floor Finishes - Carpet</td> <td>289,175</td> </tr> <tr> <td>Floor Finishes - Vinyl Sheet</td> <td>19,313</td> </tr> <tr> <td>Total</td> <td>\$599,339</td> </tr> </tbody> </table>   | System      | Cost | Exterior Doors      | 79,560 | Exterior Doors - Overhead Doors       | 9,573  | Exterior Doors Hardware    | 25,459  | Wall Finishes - Paint | 176,259 | Floor Finishes - Carpet | 289,175 | Floor Finishes - Vinyl Sheet | 19,313    | Total   | \$599,339 |   |        |   |        |       |             |
|                                 | System   | Cost        |      |                     |        |                                       |        |                            |         |                       |         |                         |         |                              |           |   |           |   |        |   |        |       |             |
| Exterior Doors                  | 79,560   |             |      |                     |        |                                       |        |                            |         |                       |         |                         |         |                              |           |   |           |   |        |   |        |       |             |
| Exterior Doors - Overhead Doors | 9,573  |             |      |                     |        |                                       |        |                            |         |                       |         |                         |         |                              |           |   |           |   |        |   |        |       |             |
| Exterior Doors Hardware         | 25,459   |             |      |                     |        |                                       |        |                            |         |                       |         |                         |         |                              |           |   |           |   |        |   |        |       |             |
| Wall Finishes - Paint           | 176,259  |             |      |                     |        |                                       |        |                            |         |                       |         |                         |         |                              |           |   |           |   |        |   |        |       |             |
| Floor Finishes - Carpet         | 289,175  |             |      |                     |        |                                       |        |                            |         |                       |         |                         |         |                              |           |   |           |   |        |   |        |       |             |
| Floor Finishes - Vinyl Sheet    | 19,313   |             |      |                     |        |                                       |        |                            |         |                       |         |                         |         |                              |           |   |           |   |        |   |        |       |             |
| Total                           | \$599,339  |             |      |                     |        |                                       |        |                            |         |                       |         |                         |         |                              |           |   |           |   |        |   |        |       |             |
|                                 |  |             |      |                     |        |                                       |        |                            |         |                       |         |                         |         |                              |           |   |           |   |        |   |        |       |             |
| <b>Cost/Savings:</b>            | \$2,131,248  |             |      |                     |        |                                       |        |                            |         |                       |         |                         |         |                              |           |   |           |   |        |   |        |       |             |
| <b>Timeline:</b>                | TBD  |             |      |                     |        |                                       |        |                            |         |                       |         |                         |         |                              |           |   |           |   |        |   |        |       |             |
| <b>Communications:</b>          |  |             |      |                     |        |                                       |        |                            |         |                       |         |                         |         |                              |           |   |           |   |        |   |        |       |             |
| <b>Appendices:</b>              | Education Centre System Summary List - Five Year Capital Planning Timeframe  |             |      |                     |        |                                       |        |                            |         |                       |         |                         |         |                              |           |   |           |   |        |   |        |       |             |

**Strategic Priority Area(s):**

**Relationships:**

- ☐ Students, families and staff are welcomed, respected and valued as partners.
- ☐ Promote and build connections to foster mutually respectful communication among students, families, staff and the broader community.
- ☐ Create opportunities for collaboration and partnerships.

**Equity and Diversity:**

- ☐ Create opportunities for equitable access to programs and services for students.
- ☐ Students and all partners feel heard, valued and supported.
- ☐ Programs and services embrace the culture and diversity of students and all partners.

**Achievement and Well-Being:**

- ☐ More students demonstrate growth and achieve student learning outcomes with a specific focus on numeracy and literacy.
- ☐ Staff will demonstrate excellence in instructional practices.
- ☒ Enhance the safety and well-being of students and staff.

Form Revised October 2018

**We build each student's tomorrow, every day**



System List Report  
By Asset Name

Currency : CAD

Board: Thames Valley District School Board      Asset: Education Centre, Building ID 5177-B01 5177-B01  
Campus: Education Centre, Campus ID 5177      : 11,843SM  
Asset Replacement Value: \$24,824,820

| System Category   | System Name   | Lifetime | Renewal<br>Action FY | Date Inspected | Replacement<br>Cost | Recommended<br>Replacement Cost | Comments  |
|---|---|----------|----------------------|----------------|---------------------|---------------------------------|---|
| B2020 - Exterior Windows  | Exterior Windows  | 32       | 2019                 | Mar 27, 2015   | 850,233             | 0                               | Item may be deferred past five year capital planning timeframe                        |
| B2030 - Exterior Doors  | Exterior Doors  | 15       | 2019                 | Mar 27, 2015   | 79,560              | 79,560                          |   |
| B203004 - Exterior Doors - Overhead and Roll-up                       | Exterior Doors - Overhead Doors                                 | 15       | 2018                 | Mar 27, 2015   | 9,573               | 0                               | Item may be deferred past five year capital planning timeframe                        |
| B203008 - Exterior Doors - Hardware                                   | Exterior Doors Hardware   | 15       | 2019                 | Mar 27, 2015   | 25,459              | 0                               | Item may be deferred past five year capital planning timeframe                        |
| B3010 - Roof Coverings  | Roof Coverings - Addition 5                                     | 22       | 2015                 | Mar 27, 2015   | 2,415               | 0                               | Completed   |
| B3010 - Roof Coverings  | Roof Coverings - Addition 6                                     | 22       | 2015                 | Mar 27, 2015   | 18,877              | 0                               | Completed   |
| B3010 - Roof Coverings  | Roof Coverings - Roof Area A, E, L                              | 22       | 2015                 | Mar 27, 2015   | 324,421             | 0                               | Completed   |
| B3010 - Roof Coverings  | Roof Coverings - Roof Area B,C,F,G,J,M,N,O                      | 22       | 2015                 | Mar 27, 2015   | 294,130             | 0                               | Completed   |
| B3010 - Roof Coverings  | Roof Coverings - Roof Area D&P                                  | 22       | 2020                 | Mar 27, 2015   | 25,243              | 0                               | Completed   |
| B3010 - Roof Coverings  | Roof Coverings - Roof Area H, I K                               | 22       | 2019                 | Mar 27, 2015   | 263,400             | 0                               | Completed   |
| C1020 - Interior Doors  | Interior Doors  | 25       | 2020                 | Mar 27, 2015   | 1,423,594           | 0                               | Item may be deferred past five year capital planning timeframe                        |
| C102007 - Interior Doors - Hardware                                   | Interior Doors Hardware   | 25       | 2019                 | Mar 27, 2015   | 195,187             | 0                               | Item may be deferred past five year capital planning timeframe                        |
| C103002 - Fittings - Washroom Accessories                             | Fittings - Washroom   | 15       | 2018                 | Mar 27, 2015   | 84,150              | 84,150                          |   |
| C103018 - Fittings - Window Coverings                                 | Fittings - Auditorium Seating                                   | 25       | 2016                 | Mar 27, 2015   | 175,024             | 0                               | Item may be deferred past five year capital planning timeframe                        |
| C2010 - Stair Construction  | Interior Stair Construction                                     | 40       | 2020                 | Mar 27, 2015   | 1,020,000           | 0                               | Item may be deferred past five year capital planning timeframe                        |
| C2010 - Stair Construction  | Interior Stair Construction - Addition 2                        | 40       | 2020                 | Mar 27, 2015   | 51,000              | 0                               | Item may be deferred past five year capital planning timeframe                        |
| C2010 - Stair Construction  | Interior Stair Construction - Addition 3                        | 40       | 2020                 | Mar 27, 2015   | 408,000             | 0                               | Item may be deferred past five year capital planning timeframe                        |
| C2010 - Stair Construction  | Interior Stair Construction - Addition 6                        | 40       | 2020                 | Mar 27, 2015   | 102,000             | 0                               | Item may be deferred past five year capital planning timeframe                        |
| C2020 - Stair Finishes  | Stair Finishes  | 30       | 2020                 | Mar 27, 2015   | 110,323             | 0                               | Item may be deferred past five year capital planning timeframe                        |
| C2020 - Stair Finishes  | Stair Finishes - Addition 3                                     | 30       | 2020                 | Mar 27, 2015   | 41,371              | 0                               | Item may be deferred past five year capital planning timeframe                        |
| C2020 - Stair Finishes  | Stair Finishes - Addition 6                                     | 30       | 2020                 | Mar 27, 2015   | 10,078              | 0                               | Item may be deferred past five year capital planning timeframe                        |
| C301005 - Wall Finishes - Paint                                       | Wall Finishes - Paint   | 5        | 2017                 | Mar 27, 2015   | 176,259             | 176,259                         |   |
| C302002 - Floor Finishes - Terrazzo                                   | Floor Finishes - Terrazzo                                       | 75       | 2020                 | Mar 27, 2015   | 175,112             | 0                               |   |
| C302003 - Floor Finishes - Wood                                       | Floor Finishes - Hardwood                                       | 20       | 2016                 | Mar 27, 2015   | 18,841              | 0                               |   |
| C302005 - Floor Finishes - Carpet                                     | Floor Finishes - Carpet   | 10       | 2018                 | Mar 27, 2015   | 289,175             | 289,175                         |   |
| C302005 - Floor Finishes - Carpet                                     | Floor Finishes - Carpet   | 10       | 2020                 | Mar 27, 2015   | 66,779              | 66,779                          |   |
| C302007 - Floor Finishes - Painted Sealed Concrete                    | Floor Finishes - Painted/Sealed Concrete                        | 15       | 2020                 | Mar 27, 2015   | 9,071               | 9,071                           |   |
| C302011 - Floor Finishes - Quarry Tile                                | Floor Finishes - Quarry Tile                                    | 30       | 2020                 | Mar 27, 2015   | 20,301              | 20,301                          |   |
| C302015 - Floor Finishes - Vinyl Sheet                                | Floor Finishes - Vinyl Sheet                                    | 15       | 2016                 | Mar 27, 2015   | 19,313              | 19,313                          |   |
| C302017 - Floor Finishes - Composite                                  | Floor Finishes - Vinyl Tile                                     | 20       | 2016                 | Mar 27, 2015   | 26,397              | 26,397                          |   |
| C303002 - Ceiling Finishes - Plaster                                  | Ceiling Finishes - Plaster                                      | 30       | 2020                 | Mar 27, 2015   | 560,073             | 560,073                         |   |
| C303003 - Ceiling Finishes - Gypsum                                   | Ceiling Finishes - GWB  | 30       | 2020                 | Mar 27, 2015   | 16,114              | 16,114                          |   |
| C303004 - Ceiling Finishes - Acoustic                                 | Ceiling Finishes - ACT  | 25       | 2017                 | Mar 27, 2015   | 235,634             | 0                               | Addressed through previous project  |
| C303004 - Ceiling Finishes - Acoustic                                 | Ceiling Finishes - ACT  | 25       | 2020                 | Mar 27, 2015   | 44,601              | 0                               | Addressed through previous project  |
| C303006 - Ceiling Finishes - Paint                                    | Ceiling Finishes - Painted Ceiling Structure                    | 15       | 2020                 | Mar 27, 2015   | 53,020              | 53,020                          |   |
| D101012 - Elevators and Lifts - Passenger - Hydraulic                 | Elevators & Lifts - Passenger Elevator - Hydraulic              | 30       | 2017                 | Mar 27, 2015   | 431,533             | 431,533                         |   |
| D2010 - Plumbing Fixtures   | Plumbing Fixtures   | 25       | 2020                 | Mar 27, 2015   | 311,100             | 311,100                         |   |
| D2010 - Plumbing Fixtures   | Plumbing Fixtures - Addition 2                                  | 25       | 2020                 | Mar 27, 2015   | 11,220              | 11,220                          |   |
| D2010 - Plumbing Fixtures   | Plumbing Fixtures - Addition 3                                  | 25       | 2020                 | Mar 27, 2015   | 116,280             | 116,280                         |   |
| D2010 - Plumbing Fixtures   | Plumbing Fixtures - Addition 6                                  | 25       | 2020                 | Mar 27, 2015   | 28,560              | 28,560                          |   |
| D2010 - Plumbing Fixtures   | Plumbing Fixtures - Washroom Fixtures                           | 25       | 2017                 | Mar 27, 2015   | 95,880              | 95,880                          |   |
| D202035 - Domestic Water Distribution - Water Treatment Systems       | Domestic Water Distribution                                     | 30       | 2020                 | Mar 27, 2015   | 431,746             | 431,746                         |   |
| D202035 - Domestic Water Distribution - Water Treatment Systems       | Domestic Water Distribution - Addition 1                        | 30       | 2020                 | Mar 27, 2015   | 12,730              | 12,730                          |   |
| D202035 - Domestic Water Distribution - Water Treatment Systems       | Domestic Water Distribution - Addition 2                        | 30       | 2020                 | Mar 27, 2015   | 15,382              | 15,382                          |   |
| D202035 - Domestic Water Distribution - Water Treatment Systems       | Domestic Water Distribution - Addition 3                        | 30       | 2020                 | Mar 27, 2015   | 162,302             | 162,302                         |   |
| D202035 - Domestic Water Distribution - Water Treatment Systems       | Domestic Water Distribution - Addition 6                        | 30       | 2020                 | Mar 27, 2015   | 40,310              | 40,310                          |   |
| D2030 - Sanitary Waste  | Sanitary Waste  | 37       | 2017                 | Mar 27, 2015   | 678,992             | 0                               | Study to be completed   |
| D2030 - Sanitary Waste  | Sanitary Waste - Addition 1                                     | 37       | 2020                 | Mar 27, 2015   | 16,684              | 0                               |   |
| D2030 - Sanitary Waste  | Sanitary Waste - Addition 2                                     | 37       | 2020                 | Mar 27, 2015   | 19,815              | 0                               |   |
| D2030 - Sanitary Waste  | Sanitary Waste - Addition 3                                     | 37       | 2020                 | Mar 27, 2015   | 209,346             | 0                               |   |
| D2030 - Sanitary Waste  | Sanitary Waste - Addition 6                                     | 37       | 2021                 | Mar 27, 2015   | 52,026              | 0                               |   |
| D2040 - Rain Water Drainage   | Rain Water Drainage   | 37       | 2017                 | Mar 27, 2015   | 678,953             | 0                               | Study to be completed   |
| D2040 - Rain Water Drainage   | Rain Water Drainage - Addition 3                                | 37       | 2020                 | Mar 27, 2015   | 24,264              | 0                               |   |
| D301002 - Energy Supply System - Natural Gas                          | Gas Supply System   | 35       | 2020                 | Mar 27, 2015   | 1,494,598           | 0                               | Study to be completed   |
| D302099 - Heat Generating - Other                                     | Roof Top Unit - Addition 1                                      | 25       | 2015                 | Mar 27, 2015   | 150,000             | 150,000                         |   |
| D303012 - Chilled Water Systems - Cooling Towers                      | Chilled Water System - Cooling Tower                            | 25       | 2016                 | Mar 27, 2015   | 127,296             | 0                               | Completed   |
| D304001 - Distribution Systems - Air Distribution, Heating & Cooling  | Air Distribution, Heating & Cooling - Ductwork                  | 30       | 2016                 | Mar 27, 2015   | 1,456,163           | 0                               | Addressed through previous project  |
| D304001 - Distribution Systems - Air Distribution, Heating & Cooling  | Chilled water distribution systems - Piping System              | 45       | 2018                 | Mar 27, 2015   | 578,617             | 0                               | Addressed through previous project  |
| D304003 - Distribution Systems - Heated Water Distribution Systems    | Heating water distribution systems - Piping System              | 45       | 2017                 | Mar 27, 2015   | 1,015,939           | 0                               | Addressed through previous project  |
| D304007 - Distribution Systems - Exhaust Systems                      | Exhaust Systems   | 15       | 2020                 | Mar 27, 2015   | 197,309             | 197,309                         |   |
| D304007 - Distribution Systems - Exhaust Systems                      | Exhaust Systems   | 15       | 2016                 | Mar 27, 2015   | 25,459              | 25,459                          |   |
| D304007 - Distribution Systems - Exhaust Systems                      | Exhaust Systems - Addition 3                                    | 15       | 2020                 | Mar 27, 2015   | 70,013              | 70,013                          |   |
| D304008 - Air Handling Units  | Air Handling Units  | 35       | 2017                 | Mar 27, 2015   | 893,520             | 893,520                         |   |
| D304008 - Air Handling Units  | Air Handling Units - Addition 3                                 | 35       | 2020                 | Mar 27, 2015   | 290,799             | 290,799                         |   |
| D305001 - Terminal and Package Units - Unit Ventilators               | Terminal & Package Units - Addition 1                           | 15       | 2020                 | Mar 27, 2015   | 45,827              | 45,827                          |   |
| D305001 - Terminal and Package Units - Unit Ventilators               | Terminal & Package Units - Addition 2                           | 15       | 2020                 | Mar 27, 2015   | 36,438              | 36,438                          |   |
| D305001 - Terminal and Package Units - Unit Ventilators               | Terminal & Package Units - Addition 3                           | 15       | 2020                 | Mar 27, 2015   | 494,227             | 494,227                         |   |
| D305002 - Terminal and Package Units - Unit Heaters                   | Unit Heaters  | 15       | 2016                 | Mar 27, 2015   | 24,174              | 0                               | Completed   |
| D305003 - Terminal and Package Units - Fan Coil Units                 | Fan Coil Units  | 15       | 2016                 | Mar 27, 2015   | 33,660              | 0                               | Completed   |
| D305004 - Terminal and Package Units - Fin Tube Radiation             | Fin Tube Radiation Units  | 15       | 2016                 | Mar 27, 2015   | 1,690,344           | 1,690,344                       |   |
| D306002 - Controls and Instrumentation - Electronic                   | Controls & Instrumentation                                      | 15       | 2016                 | Mar 27, 2015   | 509,120             | 250,000                         | Reduced as part of preliminary investigation through Greenhouse Gas Reduction Funding |
| D306002 - Controls and Instrumentation - Electronic                   | Controls & Instrumentation - Addition 1                         | 15       | 2020                 | Mar 27, 2015   | 48,187              | 48,187                          |   |
| D3090 - Other HVAC Systems and Equipment                              | DX w/Air Cooled Remote Condensing Units (Thames Room)           | 15       | 2017                 | Mar 27, 2015   | 38,148              | 38,148                          |   |
| D3090 - Other HVAC Systems and Equipment                              | Other HVAC Systems and Equipment - Walk-in Refrigerator/Freezer | 25       | 2016                 | Mar 27, 2015   | 16,932              | 0                               | Not Applicable  |
| D3090 - Other HVAC Systems and Equipment                              | Radiant Floor Heating of Ramp                                   | 15       | 2016                 | Mar 27, 2015   | 45,900              | 0                               | Not Applicable  |
| D4010 - Sprinklers  | Sprinklers  | 40       | 2020                 | Mar 27, 2015   | 339,739             | 339,739                         |   |
| D4010 - Sprinklers  | Sprinklers - Addition 2   | 40       | 2020                 | Mar 27, 2015   | 10,278              | 10,278                          |   |
| D4010 - Sprinklers  | Sprinklers - Addition 3   | 40       | 2020                 | Mar 27, 2015   | 123,850             | 123,850                         |   |
| D4010 - Sprinklers  | Sprinklers - Addition 6   | 40       | 2024                 | Mar 27, 2015   | 27,648              | 27,648                          |   |
| D4020 - Standpipes  | Standpipe Systems   | 47       | 2020                 | Mar 27, 2015   | 54,266              | 54,266                          |   |
| D4020 - Standpipes  | Standpipe Systems - Addition 3                                  | 47       | 2020                 | Mar 27, 2015   | 19,783              | 19,783                          |   |
| D501001 - Electrical Service and Distribution - Main Transformer      | Main Transformers   | 45       | 2020                 | Mar 27, 2015   | 1,605,203           | 1,605,203                       |   |
| D501002 - Electrical Service and Distribution - Secondary Transformer | Secondary   | 40       | 2020                 | Mar 27, 2015   | 603,211             | 603,211                         |   |
| D501002 - Electrical Service and Distribution - Secondary Transformer | Secondary - Addition 3  | 40       | 2020                 | Mar 27, 2015   | 219,911             | 219,911                         |   |
| D501003 - Electrical Service and Distribution - Main Switchboard      | Main Switchboards   | 40       | 2020                 | Mar 27, 2015   | 271,973             | 271,973                         |   |
| D501003 - Electrical Service and Distribution - Main Switchboard      | Main Switchboards - Addition 3                                  | 40       | 2020                 | Mar 27, 2015   | 99,144              | 99,144                          |   |
| D501099 - Electrical Service and Distribution - Other                 | Other Service and Distribution                                  | 30       | 2020                 | Mar 27, 2015   | 250,918             | 250,918                         |   |
| D501099 - Electrical Service and Distribution - Other                 | Other Service and Distribution - Addition 3                     | 30       | 2020                 | Mar 27, 2015   | 91,486              | 91,486                          |   |
| D502001 - Lighting and Branch Wiring - Branch Wiring                  | Branch Wiring - Addition 1                                      | 40       | 2020                 | Mar 27, 2015   | 35,431              | 35,431                          |   |
| D502001 - Lighting and Branch Wiring - Branch Wiring                  | Branch Wiring - Addition 2                                      | 40       | 2020                 | Mar 27, 2015   | 42,137              | 42,137                          |   |
| D502001 - Lighting and Branch Wiring - Branch Wiring                  | Branch Wiring - Addition 3                                      | 40       | 2020                 | Mar 27, 2015   | 508,703             | 508,703                         |   |
| D502001 - Lighting and Branch Wiring - Branch Wiring                  | Branch Wiring - Addition 4                                      | 40       | 2020                 | Mar 27, 2015   | 19,206              | 19,206                          |   |
| D502001 - Lighting and Branch Wiring - Branch Wiring                  | Branch Wiring - Addition 6                                      | 40       | 2024                 | Mar 27, 2015   | 113,413             | 113,413                         |   |
| D502003 - Lighting and Branch Wiring - Interior Lighting              | Lighting Equipment  | 30       | 2020                 | Mar 27, 2015   | 805,655             | 0                               | Completed   |
| D502003 - Lighting and Branch Wiring - Interior Lighting              | Lighting Equipment - Addition 1                                 | 30       | 2020                 | Mar 27, 2015   | 20,531              | 0                               | Completed   |
| D502003 - Lighting and Branch Wiring - Interior Lighting              | Lighting Equipment - Addition 2                                 | 30       | 2020                 | Mar 27, 2015   | 24,339              | 0                               | Completed   |
| D502003 - Lighting and Branch Wiring - Interior Lighting              | Lighting Equipment - Addition 3                                 | 30       | 2020                 | Mar 27, 2015   | 293,718             | 0                               | Completed   |
| D502003 - Lighting and Branch Wiring - Interior Lighting              | Lighting Equipment - Addition 4                                 | 30       | 2020                 | Mar 27, 2015   | 11,093              | 0                               | Completed   |
| D502006 - Lighting and Branch Wiring - Exit Lighting and Signs        | Lighting Equipment - Exit Lighting/Exit Signs                   | 30       | 2016                 | Mar 27, 2015   | 47,758              | 47,758                          |   |
| D502007 - Lighting and Branch Wiring - Emergency Lighting             | Lighting Equipment - Emergency Lighting - Battery Back-ups      | 20       | 2016                 | Mar 27, 2015   | 106,099             | 106,099                         |   |
| D503001 - Communication and Security - Fire Alarm                     | Fire Alarm Systems  | 25       | 2016                 | Mar 27, 2015   | 397,816             | 397,816                         |   |
| D503004 - Communication and Security - Public Address                 | Public Address Systems  | 20       | 2020                 | Mar 27, 2015   | 84,598              | 0                               | Pending IT Communication Initiative   |
| D503008 - Communication and Security - Security                       | Security Systems  | 20       | 2020                 | Mar 27, 2015   | 108,779             | 0                               | Pending IT Communication Initiative   |
| D503008 - Communication and Security - Security                       | Security Systems - CCTV   | 20       | 2017                 | Mar 27, 2015   | 62,048              | 62,048                          | Pending IT Communication Initiative   |
| D509002 - Other Electrical - Emergency Lighting and Power             | Emergency Lighting & Power                                      | 30       | 2020                 | Mar 27, 2015   | 172,584             | 172,584                         |   |
| D509003 - Other Electrical - Grounding                                | Grounding Systems   | 50       | 2020                 | Mar 27, 2015   | 16,591              | 16,591                          |   |
| G201003 - Roadways - Paved  | Roadways  | 15       | 2016                 | Mar 27, 2015   | 84,250              | 1,155,000                       | Budget based on Geotechnical Investigation  |
| G202003 - Parking Lots - Paved  | Parking Lots  | 15       | 2016                 | Mar 27, 2015   | 768,245             | 0                               | Costs included as part of Roadways project  |
| G203003 - Pedestrian Paving - Paved                                   | Pedestrian Paving   | 25       | 2016                 | Mar 27, 2015   | 25,264              | 0                               | Costs included as part of Roadways project  |
| G204001 - Site Development - Fencing and Gates                        | Fencing & Gates   | 20       | 2016                 | Mar 27, 2015   | 66,645              | 66,645                          |   |
| G204005 - Site Development - Signage                                  | Signage   | 15       | 2020                 | Mar 27, 2015   | 44,532              | 44,532                          |   |
| G30 - Site Mechanical Utilities                                       | Site Civil/Mechanical Utilities                                 | 30       | 2019                 | Mar 27, 2015   | 1,352,352           | 0                               | Item may be deferred past five year capital planning timeframe                        |
| G4020 - Site Lighting   | Site Lighting   | 23       | 2020                 | Mar 27, 2015   | 13,086              | 0                               | Completed   |
| Asset: Education Centre, Building ID 5177-B01 5177-B01                |   |          |                      |                | 28,786,794          | 13,792,896                      |   |
| Campus: Education Centre, Campus ID 5177                              |   |          |                      |                |                     |                                 |   |
| Board: Thames Valley District School Board                            |   |          |                      |                |                     |                                 |   |
| Summary   |   |          |                      |                |                     |                                 |   |