IMPACT FEE ORDINANCE For the Town of Hinesburg, Vermont

October 5, 2009

HINESBURG IMPACT FEE ORDINANCE

Section 1. Authority.

This ordinance is enacted pursuant to the specific authority granted to municipalities to establish impact fees contained in 24 V.S.A., Chapter 131. This ordinance shall be a civil ordinance within the meaning of 24 V.S.A. Chapter 59.

Section 2. Purpose.

It is the purpose of this ordinance to establish impact fees to pay portions of the cost of constructing capital facilities for new development in the Town of Hinesburg that will be served by such facilities. To the extent that new capital facilities are necessitated by new development and such facilities benefit the new development, it is appropriate that the new residents and owners bear an appropriate portion of the costs of constructing the new facilities.

Section 3. Establishment of Fees.

A. <u>Fire Protection Fee</u>: Except as provided in Section 8 of this ordinance, any land development as described in subparagraph (1) which is issued a permit under the Town of Hinesburg Zoning Regulations after the date this Impact Fee Ordinance provision becomes effective shall pay a Fire Protection Impact Fee determined in accordance with the formula set forth in subparagraph (2).

- (1) This impact fee shall apply to any land development that results in an increase in total value of property at risk in the Town (including structures and contents), as described in the report entitled "TOWN OF HINESBURG: FIRE PROTECTION IMPACT FEE ANALYSIS" (The Fire Fee Report) prepared by Michael J. Munson, Ph.D., FAICP, and dated August 12, 2009, which is incorporated into this ordinance by reference
- (2) Formulae for determination of Fire Protection Impact fees: For all structures, the base fire protection impact fee shall be \$3.20 per \$1,000 estimated value at risk, including the value of all proposed structures and contents. Estimates of structure value, contents value, raw land value, and total post-construction assessed value shall be developed according to the procedures set forth in the Fire Fee Report
 - (a) For residential development the base fire protection fee shall be computed as described in Section V-A of the Fire Fee Report. From the base fee shall be deducted credits as described in Section VI-A of the Fire Fee Report. This shall yield the net fire protection fee per dwelling unit. If applicable, special credits, as described in Section VII of the Fire Fee Report shall also be deducted.
 - (b) For non-residential development the base fire protection fee shall be computed as described in Section V-B of the Fire Fee Report. From the base fee shall be deducted credits as described in Section VI-B of the Fire Fee Report. This shall yield the net fire protection impact fee for the proposed development. Where applicable, special credits, as described in Section VII of the Fire Fee Report, shall also be deducted.

- (3) Impact fees collected pursuant to this ordinance provision shall be used to pay costs associated with the following fire protection improvement projects which are described in the Fire Fee Report:
 - (a) Expansion of the Fire Station
 - (b) Acquisition of Aerial ladder Truck
- (4) A credit of up to ten percent of the base impact fee may be awarded to non-residential developments that include installation of a sprinkler system designed to meet the guidelines of the Insurance Rating Organization with no more than 25 deficiency points.
- B. <u>Police Protection Fee:</u> Except as provided in Section 8 of this ordinance, any land development as described in subparagraph (1) which is issued a permit under the Town of Hinesburg Zoning Regulations after the date this Impact Fee Ordinance provision becomes effective shall pay a Police Protection Impact Fee determined in accordance with the formula set forth in subparagraph (2).
 - (1) This impact fee shall apply to any land development that results in additional residential dwelling units in the Town or any additional floor area of non-residential building space in the Town. The fee shall be calculated as described in the report entitled "TOWN OF HINESBURG: POLICE PROTECTION IMPACT FEE ANALYSIS" (The Police Fee Report) prepared by Michael J. Munson, Ph.D., FAICP, and dated August 20, 2009, which is incorporated into this ordinance by reference.
 - (2) Formulae for Determination of Police Protection Impact Fees.
 - (a) For residential development, the base police fee for each proposed dwelling unit shall reflect the base cost of \$156.45 per expected resident. The base fee per dwelling shall be as shown in Table PP-2 of the Police Fee Report. From the base fee shall be deducted credits as described in Section III-A of the Police Fee Report. This shall yield the net police fee for each proposed dwelling.
 - (b) For non-residential development, the base fee shall reflect the base cost of \$223.50 per 1,000 square feet of proposed building space, as described in Section II-B of the Police Fee Report. From the base fee shall be deducted credits as described in Section III-B of the Police Fee Report. This shall yield the net police protection impact fee for the proposed development.
 - (3) Impact fees collected pursuant to this ordinance provision shall be used to pay costs associated with the construction of a new police station facility as described in the Police Fee Report.
- C. Reserved.
- D. Reserved.
- E. Reserved.

Section 4. Payment of Fees

Impact fees levied under this ordinance shall be paid to the Town Treasurer prior to the issuance of any permits under the Hinesburg Zoning Regulations for the construction of any development subject to the payment of impact fees. The Zoning Administrator shall not issue any zoning permit for the construction of such developments without first receiving proof of payment of the required impact fees from the Treasurer.

Section 5. Accounting and Register of Payment.

- A. Impact fees collected pursuant to this Ordinance shall be placed by the Treasurer in separate interest bearing accounts for each type of impact fee established.
- B. The Treasurer shall maintain a register for each account indicting the date of payment of each fee, the amount paid, and the name of the payer.
- C. The Treasurer shall prepare an annual accounting of all fees paid into and withdrawn from each account, showing the source and amounts collected, and the amounts expended and the projects for which such expenditures were made.

Section 6. Refunds.

- A. If the actual expense to the Town of a project to be funded at least in part by impact fees is less than the fees collected or to be collected, the Town shall refund to the then owner of the property for which the fee was paid, that portion of any impact fee, with accrued interest, which is in excess of the appropriate amount due to the Town. The Town shall provide this refund within one year of the date it completes or terminates construction of the project.
- B. If the Town reduces the amount of an impact fee after some fees have been collected, the Town shall refund to the then owner of the property for which a fee was paid, that portion of any impact fee, with accrued interest, which is in excess of the appropriate amount due to the Town. The Town shall provide this refund within one year of the date it reduces the impact fee.
- C. If the Town does not expend an impact fee within six years of the date it is paid, the then owner of the property for which the fee was paid may apply for and receive a refund of the fee, provided the request for refund is filed within one year of the expiration of the six year time period.
- D. A person who pays an impact fee established under this ordinance and subsequently abandons the project (allows the zoning permit to expire) without commencing construction of the land development on which the impact fee was based, may request and receive from the Town a refund of the impact fee in full. Any accrued interest shall be retained by the Town to offset administrative costs. A person who receives a refund under this provision shall not commence construction of the land development for which the refund was made without repaying the required impact fees.

- A. All impact fees collected pursuant to this ordinance, and accrued interest, shall be expended only for the specifically identified projects which were the basis for the fees. Such fees and accrued interest shall be expended within six years of the date they are received by the Treasurer.
- B. The Treasurer shall pay, from the appropriate account, expenses associated with the designated projects as they become due and upon receipt of appropriate documentation regarding such expense.
- C. The Treasurer shall reimburse the Hinesburg School District for expenditures associated with School District projects funded by education impact fees, upon receipt of appropriate documentation.

Section 8. Exemptions:

In accordance with the provisions of 24 V.S.A., Section 5205, The Select Board may waive all or part of the impact fees levied under this ordinance for developments which advance policies or objectives clearly stated in the current Hinesburg Municipal Plan. This may include, but is not limited to, affordable housing developments, municipal facilities for which needs are identified in the Municipal Plan, or school facilities for which needs are identified in the Municipal Plan. Before granting any request for such exemptions or waivers, the Selectboard shall warn and conduct a public hearing on the matter.

Section 9. Credits for "In-Kind" Contributions.

- A. "In-Kind" contribution shall mean provision, by a person subject to payment of an impact fee, of land or equipment or construction of facilities that are included in the impact fee analyses and computations, and which are included in or consistent with the Town's Comprehensive Plan.
- B. Upon recommendation of the Development Review Board, the Selectboard may approve a credit against any impact fee levied under this ordinance for the value of "In-Kind" contributions. The amount of credit for an "In-Kind" contribution shall be based on the actual cost to the person requesting the credit of providing or creating the facilities. The Development Review Board shall indicate the basis on which the amount of credit is determined. The amount of credit for an "In-Kind" contribution shall not exceed the total amount of the impact fee for that type of facility which would otherwise be levied on the proposed development.

Section 10. Appeals.

An individual or entity required to pay an impact fee under this ordinance may challenge the imposition of such fee, or the amount of the fee, by filing a written notice of appeal with the Town Clerk, which appeal shall not be filed later than thirty days after payment of the impact fee. Said notice of appeal shall state the basis of the appellant's challenge to the fee. Within sixty days of the filing of a notice of appeal, the Selectboard shall hold a public hearing to receive oral and written evidence and argument from the appellant and Town representatives. Within forty-

five days after the conclusion of the hearing, the Selectboard shall notify the appellant of its decision in writing.

Section 11. Enforcement.

A. Any individual or entity who undertakes land development in the Town of Hinesburg without first paying a required impact fee imposed pursuant to this ordinance shall be subject to a civil penalty of up to five hundred dollars per day for each day that such land development continues without payment of said fee. The Administrative Officer shall be authorized to act as the issuing municipal official to issue and pursue before the Traffic and Municipal Ordinance Bureau a municipal complaint. The Administrative Officer is authorized to recover a waiver fee of not less than \$50 and not more than \$150 for each violation and a civil penalty of not less than \$100 and not more than \$500 for each violation.

B. In addition to the enforcement procedures set forth above, the Administrative Officer is authorized to commence a civil action to obtain injunctive and other appropriate relief

Section 12. Severability.

Melissa Ross, Town Clerk

In the event any provision of this ordinance is for any reason invalid, such invalidity shall not affect the remaining provisions which can be given effect without the invalid provision.

Town of Hinesburg Selectboard

Jonathan S. Trefry, Chair

Kenneth Brown

Andrea Morgante

Howard E. Russell

Randall C. Volk

Received and recorded this _____ day of _____,2009

TOWN OF HINESBURG

FIRE PROTECTION IMPACT FEE ANALYSIS

Prepared By

Michael J. Munson, Ph.D., FAICP

September 23, 2009

I. INTRODUCTION:

The Town of Hinesburg, Vermont, has recently updated its Town Plan and its Capital Budget and Program. Through that process, the Town determined that it needed to make some significant investments in its Public Safety infrastructure (facilities and equipment) in order to be able to provide adequate service to anticipated future development. In particular, the Town identified the need for a new Fire Station (to be part of a new public safety building shared with the Police Department and Rescue Service), and for a new aerial fire truck. These are costly investments that would not be necessary in the absence of the anticipated future development. The Town feels that it is appropriate for the new development to finance a proportionate share of the costs of these investments. To this end, the Town has requested an analysis leading to the establishment of Fire Protection Impact fees. The purpose of the impact fee program is to allocate the appropriate share of the costs of planned fire protection facilities and equipment needed to accommodate the anticipated needs of the growing community, to the anticipated new development.

The Selectboard has chosen to include in its Capital Budget and Program funding for an aerial ladder truck to provide service to the type of development envisioned in the Town Plan (higher densities and taller structures) while also reducing the reliance on mutual aid in the event of a fire at one of the existing large structures in the Town. This will be a net addition to the Department's fleet of trucks, and will require additional space at the fire station. The planned public safety building will be constructed on the site of the existing fire station, and will also provide space for the Police Department. In total, the planned building will contain 13,000 square feet of space, 8,000 of which will be devoted to the Fire Department.

Fire protection is intended to reduce the risk of property loss and human loss (i.e. injury and loss of life). Human loss, however, is extremely rare, and most fire protection activity is aimed at reducing property loss. As such, the capital needs for fire protection are based, to a large extent, on the type and size of structures in the community, and the total value of property at risk. The capital projects described above are necessary to provide adequate service in the short term future, but are expected (with routine replacement) to be able to accommodate anticipated growth over the coming twenty years.

With this in mind, this impact fee analysis will be based on estimating the cost to the Town of providing the capital facilities and equipment needed to provide fire protection services to existing and anticipated development through the year 2029. To measure this, an estimate will be developed of the total value at risk at that time. The value at risk will be measured in units of \$1,000. The impact fees will be based on a ratio that measures the cost to the Town for fire protection facilities and equipment per \$1,000 unit of value at risk. This ratio, when applied to the estimated value at risk (measured in \$1,000 units) of new development, will yield the base

impact fee for fire protection.

This base impact fee will be reduced by any credits needed to offset possible double payments that might be made by the new development.

The process for developing the formula for calculating fire protection impact fees includes the following steps:

- 1) The estimation of the total cost to the Town (in current, 2009, dollars) of the fire protection facilities and equipment needed through the year 2029 (exclusive of routine replacement).
- 2) The estimation of the total number of units of value at risk by the year 2029.
- 3) The calculation of the cost to the Town per unit of value at risk of all fire protection facilities and equipment.
- 4) Estimation of any credits that are neded to offset any double payments for fire protection facilities or equipment.

II. Estimating the Town's Cost for Fire Protection Facilities and Equipment:

The Hinesburg Volunteer Fire Department operates out of a main station located on Route 116 in the center of the Village. An older station, is located nearby, but is used only for storage by several Town departments. The fire station houses numerous pieces of fire fighting equipment, including two pumpers, one tanker, one heavy rescue vehicle, one first response vehicle, and a quick attack pumper¹, plus a variety of miscellaneous equipment. Some of the vehicles and equipment were purchased (all or part) by voluntary donations collected by the Fire fighters' Association. The cost to the Town of creating this set of fire protection facilities and equipment is assumed to be the depreciated value of what the Town paid for each item, expressed in current (year 2009) dollars. For buildings, a life span of 30 years is assumed, with a residual value of 20 percent of initial cost. For most vehicles, a life span of 20 years is assumed, with a residual value of 10 percent of initial cost. For the first response vehicle, a ten year life span is assumed, with a residual value of 5 percent of the initial cost. The other pieces of equipment have varied life spans. TABLE FP-1, below, shows the current depreciated value of the Town's cost of all fire protection structures, vehicles, and equipment.

<u>Fire Station:</u> The Fire Station was originally constructed in 1972 and was extensively renovated and expanded in 2000. The total construction cost in 2000 was \$76,000. In current (2009) dollars, this would equal \$95,076. Since the building is 9 years old, its current depreciated value of the Town's cost is estimated at \$66,553.

^{1.} The first response vehicle (Med-100) is currently stored off-site.

<u>Vehicles:</u> The Department currently maintains two engine/pumper trucks, one tanker truck, one heavy rescue truck, one first response vehicle, and one quick attack pumper². These vehicles, along with the initial cost and the amount covered by donations or grants, are shown in TABLE FP-1, which also shows the current value of the Town's initial cost and the current depreciated value of the Town's cost for each item. The current depreciated value of the Town's investment in heavy vehicles is \$249,616.

		Т	ABLE F	P-1				
Estimate	ed Currer	nt Depreciate	d Value of 1	Town's Invest	ment in Fire	e Protection		
	T			Original Cost	Town Cost	Current depreciated.		
	Year	Original Cost	Donations	to Town	in 2009 \$	value of Town Cost		
Station	2000	\$76,000	\$0	\$76,000	\$95,076	\$66,553		
Vehicles				√		4		
Engine 1	1996	\$120,000	\$0	\$120,000	\$164,160	\$57,456		
Engine 2	2003	\$175,000	\$20,000	\$155,000	\$180,110	\$126,077		
Tanker 1	2006	\$148,000	\$75,000	\$73,000	\$77,745	\$66,083		
Heavy Rescue 1	1998	\$110,000	\$110,000	\$0	\$0	\$0		
First Response	2001	\$31,000	\$31,000	\$0	\$0	\$0		
Quick Attack Pumper	2001	\$87,000	\$87,000	\$0	\$0	\$0		
Vehicle Totals		\$671,000	\$323,000	\$348,000	\$422,015	\$249,616		
Equipment			Grants					
Turn out suits	2003	\$30,500	\$0	\$30,500	\$35,441	\$14,176		
Turn out suits	2009	\$30,500	\$0	\$30,500	\$30,500	\$30,500		
Breathing Apparatus	2009	\$101,000	\$68,000	\$33,000	\$33,000	\$33,000		
Compressor	2004	\$22,000	\$19,000	\$3,000	\$3,420	\$2,565		
Hose, Water transfer	2003	\$18,000	\$0	\$18,000	\$20,916	\$14,641		
Communications	2003	\$10,000	\$10,000	\$0	\$0	\$0		
Communications	2005	\$10,000	\$10,000	\$0	\$0	\$0		
Communications	2007	\$15,000	\$10,000	\$5,000	\$5,215	\$4,172		
Thermal Imagers	2005	\$22,000	\$15,800	\$6,200	\$6,863	\$5,033		
Multi Gas Meters	2005	\$3,200	\$3,200	\$0	\$0	\$0		
Siren	2008	\$15,000	\$14,900	\$100	\$100	\$97		
Equipment Totals		\$277,200	\$150,900	s \$126,300	\$135,455	\$104,184		
GRAND TOTALS		\$1,024,200	\$473,900	\$550,300	\$652,546	\$420,354		
	PLANNED INVESTMENTS Station Addition (net addition to Town's cost) \$1,979,042							
Aerial Truck (net addi	tion to Towr	i's cost)				\$902,00		
TOTAL INCLUDING	PLANN	ED INVESTMI	ENTS			\$3,301,396		

Equipment: The department owns a wide range of equipment, including turn-out suits, breathing apparatus and compressor, hose and water transfer devices, communications devices, thermal imaging cameras, multi-gas meters, and an alert siren. These were purchased at different times since 2003, and have varied life spans. Some were partially funded by grants. Using the procedure described for vehicles, the total current depreciated value of the Town's investment

² The quick attack pumper is currently stored off site.

for this equipment was estimated to be \$104,184.

The Total current depreciated value of the Town's Investment in the existing station, vehicles, and equipment is \$420,354.

<u>Planned Capital Investments</u>: The Department plans two major capital investments over the coming years: Construction of a new, enlarged, fire station as a part of a planned Public Safety Building, and purchase of a new aerial ladder truck.

The new addition to the station will contain 5,000 square feet of space allocated to the Fire Department, and that portion of the building is expected to cost a total of \$1,082,215. Some of the new space will allow on-site storage of the vehicle currently stored off-site. The remainder will be additional space to provide service to future development. It is estimated that 90% of the total project will provide new capacity and be eligible for funding from impact fee revenues. The Town plans to fund this project with a thirty year bond. The total cost, including interest, will be \$1,975,042 The value of the station addition must be added to the total current depreciated value of the existing fire protection infrastructure. In addition, part of the financial analysis supporting the fire station project is an expenditure of \$4,000 for the development of impact fee formulae.

Altogether, the net change to the current depreciated value of the Town's investment in fire protection infrastructure will be an additional \$1,979,042.

The need for the aerial truck is driven in part to effectively protect the existing large structures in the town, and in part by the need to be able to protect the anticipated future construction of residential or mixed use buildings of three or more stories. An additional benefit of the aerial truck is that it could likely reduce the ISO insurance rating and subsequently lower insurance rates in the Town. The cost of this vehicle, including interest, is estimated to be \$902,000. Since the truck will meet some current needs, only 75 percent will be eligible for impact fee funding. Since the aerial truck will not be replacing any existing vehicles, the entire cost should be added to the current depreciated value of the Town's Fire Protection infrastructure. The net change to the current depreciated value of the Town's investment in fire protection infrastructure will be an addition \$902,000.

All together, these planned capital investments will create a net addition of \$2,881,042, bringing the anticipated total current depreciated value of the Town's investment in existing and planned fire protection infrastructure to \$3,301,396, as shown in Table FP-1.

III. Estimating the Value of Property At Risk in the Town:

The value of property at risk to fire is the total value of structures and contents. Since the Town has recently reassessed its property tax base at virtually 100 percent of fair market value, it was

reasonable to base this analysis on the most recent tax data. Examination of the Town's tax data revealed that the assessed value of all structures (excluding school and municipal structures) was \$316,281,500. The assessed value of all residential structures was \$184,197,514, and the assessed value of all non-residential structures was \$132,083,986 (excluding schools and municipal structures). To round out this analysis, school and municipal officials were contacted and asked to provide the insured value of their respective structures and their contents.

Estimation of the value of contents required a different approach. Consultation with insurance professionals indicated that insurance underwriters assume that the value of contents for residential properties is either 75 or 80 percent of the value of the structure. The latter value is assumed for this analysis. The same professionals indicated that there is no rule of thumb for non-residential properties, that it was established on a case by case basis. For this analysis, it was assumed that the value of contents in non-residential properties would be equal to 150 percent of the value of the structure. TABLE FP-2 presents the estimated value of property currently (2009) at risk in the Town of Hinesburg.

TABLE FP-2 ESTIMATED VALUE AT RISK (2009)

Category	Structure	Contents	Total
Residential	\$184,197,514	\$147,358,011	\$331,555,525
Municipal	\$ 2,859,359	\$ 887,528	\$ 3,746,887
Schools	\$ 37,000,000	\$ 5,550,000	\$ 42,550,000
Non-Residential	\$132,083,986	\$198,125,984	\$330,209,970
Totals	\$356,140,859	\$351,921,523	\$708,062,382

The next step is to project this forward to the year 2029, assuming that the planned infrastructure will be adequate to meet demands for a twenty year period. This was done by determining an annual rate of growth in the Town's Grand List. Examination of the Town's grand list over the past five years revealed that it had been growing at an annual rate of 1.9 percent. It was assumed that this growth rate would continue over the coming twenty years, and this rate of growth was also assumed to apply to the value of property at risk in the Town. When compounded over the twenty year period, the resulting growth factor is 1.457. Applying this to the estimated total value at risk in 2009 results in an estimate of total value at risk in the year 2029 of \$1,031,646,891.

Expressing this in terms of units of \$1,000, results in the total of 1,031,647 units.

IV. Estimating the Cost of Fire Protection Per Unit of Value at Risk:

With the total cost to the Town of creating the 2029 Fire Protection infrastructure estimated at \$3,301,396, and the total value at risk in 2029 estimated as 1,031,647 units of \$1,000, the estimation of the cost per unit of value is straight forward. The cost is divided by the value at risk:

\$3,301,396 / 1,031,647 = \$3.2001 per unit of \$1,000 of value.

This can be rounded downward to \$3.20 per unit of \$1,000 of value.

This figure becomes the basis for calculating the Fire Protection Impact Fee.

V. Computation of Base Fire Protection Impact Fee:

The base Fire Protection Impact Fee for a proposed structure is calculated by multiplying the above ratio by the value at risk for that structure. Estimation of the value at risk is slightly different for residential and non-residential structures, so the process must be described separately for the two categories.

A. Base Impact Fee For Residential Properties:

The first step in determining the base fire protection impact fee for residential development is to develop an estimate of the value of the proposed structure. If the application of a zoning permit contains a reliable estimate, that can be used. If not, the following procedure should be followed. The total floor area of the proposed dwelling should be divided into the amount of finished interior floor area and the amount of garage floor area. The structure value can be estimated as \$120 per square foot of finished interior floor area plus \$80 per square foot of garage space.

Consider the following examples:

- 1. A modest single family dwelling on a two acre lot, to be built in 2010, that contains 2,000 square feet of interior floor space plus 576 square feet of garage (a two car garage). The estimated structure value would be 2,000 x \$120 + 576 x \$80 = \$286,800.
- 2. A small condominium (one of eight to be built on a four acre parcel in 2012) that contains 1,500 square feet of interior floor area plus 264 square feet of garage. In this case, the estimated structure value would be $1,500 \times 120 + 264 \times 80 = 201,120$.
- 3. A one bedroom flat (900 square feet) with no garage (one of sixteen to be built on a four acre parcel in 2014) would have an estimated structure value of 900 x \$120) = \$108,000.
- 4. A luxury single family home of 3,500, to be built on a five acre parcel in 2015 square feet of interior space plus a three car garage of 24 x 36 would have an estimated structure value of $3,500 \times 120 + 864 \times 80 = 489,120$.

Once the structure value is estimated, the value of the contents can be estimated at 80% of the

structure value, and the value at risk becomes 1.8 times the estimated structure value. The base fee is determined by converting the estimated value at risk into units of \$1,000, and multiplying the number of units by the base fee of \$3.20 per \$1,000 of value at risk. For the four examples above, this is shown in TABLE FP-3

TABLE FP-3 Base Impact Fees For Example Residential Developments

Example number	Structure val	ue $x 1.8/\$1,000 = u$	nits of value at risk x \$3.2	0 = base fee
1. Modest SFDU	\$286,800	x 1.8/\$1,000 =	516.24 units x \$3.20 =	\$1,642.37
2. Condominium	\$201,120	x 1.8/\$1,000 =	362.016 units x \$3.20 =	\$ 1,158.45
3. Flat	\$108,000	x 1.8/\$1,000 =	194.4 units x \$3.20 =	\$ 622.08
4. Luxury SFDU	\$489,120		880.416 units x \$3.20 =	\$2,817.33

B. Base Impact Fees for Non-Residential Properties:

For non-residential properties, the procedure for computing the base Fire Protection Impact Fees is similar except that the structure value per square foot varies by the type of structure and the use. Each proposed development must be estimated individually, yet it is not practicable to undertake a complete assessment of each property as it will be developed according to plans. A simplified estimation process is needed to facilitate administration of the impact fees.

The process presented below is based on the property assessment manual published by Marshall and Swift which is widely used by Vermont municipal assessors and listers. This manual provides unit value estimates (dollars per square foot) for different uses (i.e., commercial, office, manufacturing, etc.), different types of construction and different qualities of construction. In addition, adjustment factors are provided for local variations such as extreme climate (increased heating system value) or unusual local construction costs. The assessment manual also provides unit costs for site improvements such as general landscaping and parking.

This process begins by estimating the post-construction value of the structure (V_s) , as described below. Next, the value of the structure will be used to estimate the value of the contents (V_c) as described above. Finally, the total value at risk (V_t) is estimated as the sum of the value of the structure (V_s) and the value of the contents (V_c) . Since the value of the contents is estimated as 1.5 times the value of the structure, the total value at risk (V_t) becomes 2.5 times the value of the structure (V_s) .

Drawing on the Marshall & Swift manual, TABLE FP-4, on page 9, was prepared which provides typical unit value estimates (dollars per square foot of structure) for a list of common uses, for a number of different structure types. Since the intent is to generate typical or average value estimates, construction quality was always assumed to be "average", and the associated

values from Marshall And Swift were used.

TABLE FP-4 includes unit assessed value figures (dollars per square foot) for the following uses: Industrial/manufacturing; Engineering and Research; Office (general office activities); Medical Office; General Retail; Automotive Service Facilities; Group Care Facilities; and Motels. It is felt that most applicable non-residential developments will fall into one of these general categories. Four structure types are included in the table: Steel skeleton or reinforced concrete skeleton structures; Masonry or concrete bearing wall structures; Wood frame structures; and Steel (prefabricated) structures. Again, it is felt that most projects will fall into one of these structure categories.

Use of TABLE FP-4 to estimate the value of the structure (V_s) involves selecting the column indicating the proposed use of the structure and following that column to where it intersects with the row representing the proposed structure type. The value at the intersection represents the assessed value of the structure per square foot of building space constructed. For instance, a 20,000 square foot masonry bearing wall structure used for a medical office will have a unit assessed value of \$117.00 per square foot, and a total assessed structure value of 20,000 s.f. x \$117.0/s.f. = \$2,340,000.

It is then necessary to convert this estimate of the value of the structure to an estimate of the value of the structure and its contents. Since it was previously determined that the value of the contents of non-residential properties would equal 1.5 times the value of the structure, the estimated value of the structure plus contents will be 2.5 times the value of the structure as estimated using TABLE FP-4. Using the example started above, the estimated value of the 20,000 square foot medical office building will be $2.5 \times 2,340,000 = 5,850,000$. Measured in units of \$1,000 of value, the value of this building and contents would be 5,850 units.

Thus, the base Fire Protection Impact Fee would be computed at \$3.20 per unit of \$1,000 of value at risk, or:

Base Fee = \$3.20/unit x 5,850 units = \$18,720.00

TABLE FP-4

ESTIMATED STRUCTURE VALUES PER SQUARE FOOT OF FLOOR SPACE

				TYPE OF USE				
	INDUSTRIAL/	ENGINEERING	OFFICE	MEDICAL	GENERAL	AUTO	ELDERLY	MOTELS
	MANUFAC-	AND	(GENERAL)	OFFICE	RETAIL	SERVICE	CARE	
TYPE AND QUALITY OF CONSTRUCTION	TURING	RESEARCH				FACILITY	FACILITIES	
FIREPROOFED STEEL SKELETON OR	\$67.00	\$90.00	\$128.00	\$138.00	\$86.00	Ą	\$105.00	N A
REINFORCED CONCRETE STRUCTURE								
MASONRY OR CONCRETE BEARING	\$49.00	\$70.00	00'66\$	\$117.00	\$72.00	\$54.00	\$86.00	\$75.00
WALL STRUCTURE								
WOOD FRAME STRUCTURE	\$46.00	\$66.00	\$96.00	\$114.00	\$70.00	\$51.00	\$83.00	\$73.00
PRE-FAB STEEL STRUCTURE	\$45.00	\$65.00	\$90.00	\$107.00	\$68.00	\$40.00	\$80.00	\$73.00

VI. Computing credits to offset possible double payments:

The Town of Hinesburg will be making annual payments for the specified fire protection facilities and equipment for just over 30 years (to include the entire bond repayment period). Some of these payments will be offset by impact fee revenues, but the remainder will be covered by general tax revenues generated from the Town's tax base, including the land on which new development is now taking place and the new development after it is completed. If the new development is assessed impact fees, it should have no further obligation to pay for the planned fire station or truck. It is, however, not possible to separate taxes paid by development that has paid impact fees from the rest of the general tax revenues. Thus, it is necessary to compute a credit to offset such double payments. The credits against the impact fee should equal the present discounted value of the stream of past and future tax payments from the development that would be used for expenditures on fire protection facilities and equipment.

To do this, it is first necessary to tally the annual payments made on the specified fire protection projects, net of anticipated impact fee revenues. This is shown in TABLE FP-5, on the following page. The credits will be based on the stream of tax payments needed to cover these annual expenditures over the coming years. In TABLE FP-5 it is assumed that fire protection impact fees will cover 90 percent of the cost of the station and 75 percent of the cost of the aerial truck.

The stream of tax payments is broken into two parts. The first includes tax payments made before the development comes onto the grand list (i.e., the tax payments on the land), which will be referred to as <u>past tax payments</u>. The second part includes tax payments after the development comes onto the grand list (i.e., the tax payments on land and new structure), which will be called <u>future tax payments</u>.

The next step in the analysis is to estimate credits for past and future tax payments based on units of \$1,000 of assessed value of raw land and of assessed value of the completed structure and land. This begins with the tabulations of the Town's annual expenditures for the specified fire protection facilities and equipment projects, net of any estimated offsetting impact fee revenues, as shown in TABLE FP-5. The analysis then involves estimating the tax rate necessary to cover these annual payments. This is done by dividing the annual payment by the estimated grand list for each year (the future grand list values are based on the current grand list (4,950,396) along with an assumed annual growth rate of 1.9%) and applying that tax rate to a unit value of \$1,000.

TABLE FP-5 ANNUAL FIRE PROTECTION EXPENDITURES

Impact fee station share 90%

Impact fee truck share 75%

	Station	Percent from	Aerial Truck	Percent from	Total	Expenditures from	Expenditures
Year	Expenditures	Impact Fees	Expenditures	Impact Fees	Expenditures	Impact Fees	from taxes
2009	\$0	90%	\$0	75%	\$0	\$0	\$0
2010	\$0	90%	\$0	75%	\$0	\$0	\$0
2011	\$54,111	90%	\$0	75%	\$54,111	\$48,700	\$5,411
2012	\$90,185	90%	\$3,400	75%	\$93,585	\$83,717	\$9,869
2013	\$88,381	90%	\$102,000	75%	\$190,381	\$156,043	\$34,338
2014	\$86,577	90%	\$98,600	75%	\$185,177	\$151,869	\$33,308
2015	\$84,774	90%	\$95,200	75%	\$179,974	\$147,697	\$32,277
2016	\$82,970	90%	\$91,800	75%	\$174,770	\$143,523	\$31,247
2017	\$81,166	90%	\$88,400	75%	\$169,566	\$139,349	\$30,217
2018	\$79,362	90%	\$85,000	75%	\$164,362	\$135,176	\$29,186
2019	\$77,559	90%	\$81,600	75%	\$159,159	\$131,003	\$28,156
2020	\$75,755	90%	\$78,200	75%	\$153,955	\$126,830	\$27,126
2021	\$73,951	90%	\$74,800	75%	\$148,751	\$122,656	\$26,095
2022	\$72,148	90%	\$71,400	75%	\$143,548	\$118,483	\$25,065
2023	\$70,344	90%	\$0	75%	\$70,344	\$63,310	\$7,034
2024	\$68,540	90%	\$0	75%	\$68,540	\$61,686	\$6,854
2025	\$66,737	90%	\$0	75%	\$66,737	\$60,063	\$6,674
2026	\$64,933	90%	\$0	75%	\$64,933	\$58,440	\$6,493
2027	\$63,129	90%	\$0	75%	\$63,129	\$56,816	\$6,313
2028	\$61,326	90%	\$0	75%	\$61,326	\$55,193	\$6,133
2029	\$59,522	90%	\$0	75%	\$59,522	\$53,570	\$5,952
2030	\$57,718	90%	\$0	75%	\$57,718	\$51,946	\$5,772
2031	\$55,914	90%	\$0	75%	\$55,914	\$50,323	\$5,591
2032	\$54,111	90%	\$0	75%	\$54,111	\$48,700	\$5,411
2033	\$52,307	90%	\$0	75%	\$52,307	\$47,076	\$5,231
2034	\$50,503	90%	\$0	75%	\$50,503	\$45,453	\$5,050
2035	\$48,700	90%	\$0	75%	\$48,700	\$43,830	\$4,870
2036	\$46,896	90%	\$0	75%	\$46,896	\$42,206	\$4,690
2037	\$45,092	90%	\$0	75%	\$45,092	\$40,583	\$4,509
2038	\$43,289	90%	\$0	75%	\$43,289	\$38,960	\$4,329
2039	\$41,485	90%	\$0	75%	\$41,485	\$37,337	\$4,149
2040	\$39,681	90%	\$0	75%	\$39,681	\$35,713	\$3,968
2041	\$37,878	90%	\$0	75%	\$37,878	\$34,090	\$3,788

This will yield a tax payment each year on a unit of \$1,000 needed to cover that year's annual expenditure. The <u>credit for past tax payments</u> will be the present value of the stream of tax payment from the beginning of the analysis period up to the year in which the development is constructed. The <u>credit for future tax payments</u> will be the present value of the stream of tax payments from the time the development is constructed until the end of the bond terms. This analysis is shown in TABLE FP-6. Note that while TABLE FP-6 goes only to 2020, the analysis

actually extended to the end of the bond period. The shorter period is shown n TABLE FP-6 because it is assumed that the impact fees will be updated before the end of that period.

TABLE FP-6 IMPACT FEE CREDIT FOR PAST TAX PAYMENTS

ASSUME 2006 MUNICIPAL GRAND LIST EQUALS \$4,950,396
Grand List has grown at 1.9 % and will continue to grow at 1.90%
Unit of land value \$1,000
Unit of total value \$1,000

				CREDITS FOR	CREDITS FOR
DWELLING	ANNUAL	TAX RATE	TAX ON	PAST TAXES ON	FUTURE TAXES ON
YEAR	EXPENSE	NEEDED	\$1,000	\$1,000 OF LAND	\$1,000 OF TOTAL VALUE
2009	\$0	\$0.000	\$0.00	\$0.00	\$0.41
2010	\$0	\$0.000	\$0.00	\$0.00	\$0.43
2011	\$5,411	\$0.001	\$0.01	\$0.00	\$0.45
2012	\$9,869	\$0.002	\$0.02	\$0.00	\$0.46
2013	\$34,338	\$0.006	\$0.06	\$0.02	\$0.46
2014	\$33,308	\$0.006	\$0.06	\$0.09	\$0.42
2015	\$32,277	\$0.006	\$0.06	\$0.16	\$0.38
2016	\$31,247	\$0.006	\$0.06	\$0.23	\$0.34
2017	\$30,217	\$0.005	\$0.05	\$0.30	\$0.31
2018	\$29,186	\$0.005	\$0.05	\$0.37	\$0.27
2019	\$28,156	\$0.005	\$0.05	\$0.44	\$0.23
2020	\$27,126	\$0.004	\$0.04	\$0.51	\$0.20

The figures in the two right hand columns of TABLE FP-6 show the values used to compute credits for both residential and non-residential development. The relevant figures are selected from the row representing the year in which the new dwelling comes onto the grand list.

A. Credits for Residential Development:

In order to use TABLE FP-6 to calculate <u>credits for past tax payments</u> it is necessary to have an estimate of the value of the raw land used for the proposed dwelling. A review of current tax assessments of undeveloped parcels in excess of 25 acres revealed that raw land was, on average, assessed at a value of \$1,200 per acre. For single family detached dwellings, the size of the lot, in acres, can be multiplied by \$1,200 to get the estimated value of raw land for the dwelling. For attached dwellings (condominiums and flats) the size of the total parcel (in acres) can be divided by the number of units permitted on the parcel to get the average amount of raw land (in acres) per unit. This, in turn, can be multiplied by \$1,200 to get the estimated raw land value for each dwelling. The estimated value of the raw land can then be expressed in terms of units of \$1,000.

Using TABLE FP-6 to calculate the <u>credit for future tax payments</u> requires an estimate of the total assessed value of the dwelling after it is constructed. This includes both the structure value

(estimated on the basis of floor area as described earlier) plus a value for the developed lot. It is assumed that the value of the developed lot will equal 20 % of the structure. For example, a dwelling with an estimated structure value of \$240,000 would have a developed land value of \$60,000 and a total assessed value of \$300,000. This would be expressed in terms of units of \$1,000.

TABLE FP-7 shows the values computed for the four example dwellings, using the assumptions described above. These values provide everything needed to compute the base impact fee and the credits using TABLE FP-6.

TABLE FP-7
ESTIMATED VALUES FOR EXAMPLE DWELLINGS

Project Description	2,000 sf single family home, two car garage (24' x 24'), two acre lot, built in 2010	1,500 sf condominium, one car garage (264 sf), one of eight on 4 acres in 2012	900 sf flat, no garage, one of sixteen on a 4 acre lot in 2014	3,500 luxury home with three car garage (864 2f) on 5 acre lot in 2015
Structure value \$120/finished sf plus \$80/sf garage	2,000 x \$120 + 576 x \$80 = \$286,800	1,500 x \$120 + 264 x \$80 = \$201,120	900 x \$120 = \$108,000	3,500 x \$120 + 864 x \$80 = \$489,120
Value at risk 1.8 x structure value	1.8 x \$286,800 =	1.8 x \$201,120 =	1.8 x \$108,000 =	1.8 x \$489,120 =
	\$516,240.0	\$362,016.0	\$194,400.0	\$880,416.0
Raw land value	2 x \$1,200 =	1/2 x \$1,200 =	1/4 x \$1,200 =	5 x \$1,200 =
at \$1,200/acre	\$2,400	\$600	400	\$6,000
Developed lot value 20% or structure	.20 x \$286,800 =	.20 x \$201,120 =	.20 x \$108,000 =	.20 x \$489,120 =
	\$57,360	\$40,224	\$21,600	\$97,284
Total assessed value, Structure plus lot	\$286,800 + \$57.360 =	\$201,120 = \$40,224 =	\$108,000 = \$21,600 =	\$489,120 + \$97,284 =
	\$334,160	241,344	129,600	586,944

The actual impact fee will be the base fee computed as the value of the structure plus contents divided by \$1,000, multiplied by \$3.20.

The <u>credit for past tax payments</u> will be the value of raw land divided by \$1,000 multiplied by the appropriate value from the next to right hand column of TABLE FP-6.

The <u>credit for future tax payments</u> will be the total assessed value divided by \$1,000 multiplied by the appropriate value from the right hand column of TABLE FP-6.

These calculations are shown in TABLE FP-8.

TABLE FP-8
IMPACT FEE CALCULATIONS FOR EXAMPLE DWELLINGS

	2,000 sf single family home	1,500 sf condominium,	900 sf flat, no garage,	3,500 luxury home w
Project	two car garage (24' x 24')	one car garage (264 sf), one	one of sixteen on a	three car garage (86
Description	two acre lot, built in 2010	of eight on 4 acres in 2012	4 acre lot in 2014	on 5 acre lot in 2015
Base Impact Fee value at risk/\$1,000 x \$2.20	\$516,240/\$1,000 x \$3.20 = \$1,651.97	\$362,016/\$1,000 x \$3.20 = \$1,158.45	\$194,400\$1,000 x \$3.2+0 = \$622.08	\$880,416/\$1,000 x \$ \$2,817.33
Credit for past tax payments	\$2,400/\$1,000 x \$0 = \$0.00	\$600/\$1,000 x \$0.0 = \$0.00	\$400/\$1,000 x \$0.09 = \$0.04	\$6,000/\$1,000 x \$0 \$0.96
Crdit for future	\$334,160/\$1,000 x \$0.43	\$241,344/\$1,000 x \$0.46 =	\$129,600/\$1,000 x \$0.42 =	\$586,944/\$1,000 x \$
tax payments	\$143.69	\$110.02	\$54.43	\$223.04
Net impact fee	\$1,508.28	\$1,048.43	\$567.65	\$2,593.33

The remaining issue regarding residential development is how to treat additions to existing structures where no new dwellings are being created. Such additions clearly generate an increase in the value at risk to loss from fire, and should be subject to the impact fees.

The base impact fee can be computed by first assuming that the estimated construction cost from the Zoning/Building Permit application represents the value of the structure. This can be increased by 80 percent to estimate the value of the structure and content. This is expressed in units of \$1,000 of value. Multiplying this by the base impact fee per \$1,000 of increase in value at risk will produce the base impact fee. For example, a residential addition with an estimated construction cost of \$25,000 would be assessed an impact fee based on $1.8 \times $25,000 = $45,000 (45 \text{ units})$ of value at risk. Multiplying this be the impact fee rate of \$3.20 per \$1,000 of value would yield a base impact fee of \$3.20 x 45 = \$144.00.

Credits are slightly different for additions since there is no raw land being assessed tax payments in past years (the land is already being used for development and receiving benefits from fire protection). Thus, there should be no credits for past taxes. The addition, however, will be making future payments, some of which may be used for expenditures for fire protection equipment and facilities. A credit for future tax payments is justified. This can be computed by assuming that the construction cost is the value added to the grand list and using the appropriate value in the right hand column of TABLE FP-6. If the addition enters the Grand list in 2012, TABLE FP-6 indicates that there should be a credit of \$0.46 per unit of \$1,000 of value at risk. The credit would be \$0.46 x 25 = \$11.50.

Thus, the net impact fee for the example addition (with construction cost of \$25,000) will be \$144.000 - \$11.50 = \$132.50.

The impact fees calculated above represent the maximum that can be assessed. The Town may decide to reduce them if the reductions retain the equity factors built into the calculations.

B. Credits for Non-Residential Development:

As described above, the fire protection impact fee for non-residential development is computed using estimated total value at risk for the new development (expressed in units of \$1,000) and the base impact fee rate of \$3.20 per unit. Calculating the credits will use the values from TABLE FP-6, but the process for estimating the values of raw land and total assessed value of the new development are slightly different.

The approach to estimating total post development value is similar to that described for estimating structure value, except that the unit values include the cost of site development. These ratios are shown in TABLE FP-9 on the following page, and reflect total post development value exclusive of the value of the raw land, and the value of contents.

TABLE FP-9 is used to estimate the assessed value of the structure and site improvements per square feet of building area, based on the use and type of construction³. The example started on page 8 considers a 20,000 square foot medical office building of masonry bearing wall construction with a structure value of \$2,340,000 and a total value at risk of \$5,850,000. TABLE FP-9 indicates that the value of structure plus site improvements will be \$120.00 per square foot, for a total of \$2,400,000, or 2,400 units of \$1,000.

The value of the raw land prior to development can be based on assessed land value from tax data for the parcel prior to development, if available, or can be estimated as ten percent of the estimated value of the structure plus site improvements. In this example, the assessed land value is not known, so the latter approach is used. The land value becomes ten percent of \$2,400,000, or \$240,000 (240 units of \$1,000). The estimated value of the structure plus site improvements, plus land becomes \$2,400,000 + \$240,000 = \$2,640,000. The estimated values of raw land and total completed development, expressed in units of \$1,000 of value, will be used for estimating credits.

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³ Table FP-6 is similar to Table FP-4 except that the values have been increased to reflect the value of site improvements.

ESTIMATED POST DEVELOPMENT VALUES PER SQUARE FOOT OF FLOOR SPACE TABLE FP-9

				TYPE OF USE	3E			
	INDUSTRIAL	ENGINEERING	OFFICE	MEDICAL	GENERAL	AUTO	FLDERLY	MOTELS
	MANUFAC-	AND	(GENERAL)	OFFICE	RETAIL	SERVICE	CARE	
TYPE AND QUALITY OF CONSTRUCTION	TURING	RESEARCH				FACILITY	FACILITIES	
FIREPROOFED STEEL SKELETON OR	\$70.00	\$94.00	\$131.00	\$142.00	\$89.00	NA	\$109.00	N A
REINFORCED CONCRETE STRUCTURE								
MASONRY OR CONCRETE BEARING	\$52.00	\$73.00	\$102.00	\$120.00	\$76.00	\$57.00	\$89.00	\$79.00
WALL STRUCTURE								
WOOD FRAME STRUCTURE	\$49.00	\$69.00	\$99.00	\$117.00	\$73.00	\$54.00	\$86.00	\$77.00
PRE-FAB STEEL STRUCTURE	\$48.00	\$68.00	\$94.00	\$111.00	\$71.00	\$44.00	\$83.00	\$77.00

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The basic impact fee as estimated on page 8, was computed to be $5,850 \times 3.20 = 18,720.00$. From this amount must be deducted credits for past and future tax payments.

TABLE FP-6, presents estimated credits for past tax payments per \$1,000 of raw land value, for the various years that new development might be completed. Continuing with the example, and assuming that the development comes on line in 2013, the 2013 row of TABLE FP-6 is used. The next to right hand column indicates a credit for past tax payments of \$0.02 per \$1,000 of raw land. Since the value of raw land has been estimated at \$240,000 (240 units), the credit for past tax payments would be $240 \times 0.02 = 4.80$.

The right hand column of TABLE FP-6 shows the credits for future tax payments per \$1,000 of total assessed value for the development. For this purpose, it is necessary to use the estimated value of the structure, site improvements, and raw land, (estimated above to be \$2,640,000). For the example, the 2013 row of TABLE FP-6 indicates a credit of 0.46 per 1,000 of assessed value. Thus, the credit for future tax payments would be $2,640 \times 0.46 = 1,214.40$.

Thus, the net fire protection impact fee would be the base impact fee less the two credits, or \$18,720.00 - \$4.80 - \$1,214.40 = \$17,500.80

In the case of non-residential additions or redevelopments, the process of calculating the fees is similar to that described for residential additions. The value of structure is estimated on the basis of Table FP-3, and adjusted to include the value of contents using the adjustment factor of 2.5. This figure represents the new value at risk from the expansion, and should be expressed in units of \$1,000.

Consider, for example, a 10,000 square foot addition to a steel skeleton structure of an engineering and research facility, to come onto the grand list in 2013. TABLE FP-3 indicates a unit value for structure of \$90.00 per square foot. The value of structure and site improvements is $10,000 \times 90.00 = 900,000$. The adjusted value of structure plus contents would be \$900,000 x 2.5 = \$2,250,000, or 2,250 units of \$1,000.

For this addition project, the base impact fee would be $2,250 \times 3.20 = 7,200.00$.

From this would be deducted a credit for future tax payments. No credit for past tax payments is appropriate since the previous development benefited from any taxes paid for fire protection facilities. In computing the credit for future tax payments it will be assumed that the land value is unchanged and only the increase in structure value and site improvements need be considered. This is estimated on the basis of TABLE FP-9 which shows a unit value of \$94.00 per square foot for this type of structure and use. The estimated value of the structure and site improvements is 10,000 sf x \$94.00/sf = \$940,000, or 940 units of \$1,000.

The 2013 row of TABLE FP-6 indicates that the credit for future tax payments will be \$0.44 per unit of \$1,000 of total assessed value of the structure plus site improvements. Thus the credits would be $940 \times $0.46 = 432.40 .

Combining these steps, the net impact fee levied for this sample non-residential expansion would be

$$$7,200.00 - $432.40 = $6,767.60$$

Again, these computations represent the maximum impact fees that are justified. The Town may decide to reduce them as long as the reductions retain the equity factors built into the calculations.

VII. Special Credits:

A. Credits For Purchase or Cash contribution towards purchase of identified Fire Protection Facilities or Equipment: If a development subject to these impact fees agrees to purchase or make a cash contribution towards the purchase of any fire protection facilities or equipment that meet the Town's specifications and are specifically included in these fire protection impact fee calculations, the development should be granted a credit against the original fire protection impact fees. The credit should be in the amount equal to the amount of the purchase or cash contribution, but may not exceed the amount of the original fire protection impact fee. For residential developments, the credit shall be distributed equally across all new dwelling units in the development. The credit shall be deducted from the fire protection impact fee assessed against the dwelling unit at the time that the Zoning Permit for construction of that unit is obtained. For non-residential developments, the credit shall be deducted from the total original fee assessed against the development. If the fee is to be paid in several payments, the credit shall be pro-rated against each payment in accordance with that payment's share of the total original fee.

B. Credit for Installation of effective Sprinkler systems: The casualty insurance industry has recognized that the risk of fire loss is substantially reduced in buildings fitted with effective sprinkler systems. It is reasonable to expect that the provision of sprinkler systems would effectively reduce the value at risk as perceived by the local fire department. In order to encourage the installation of sprinkler systems in non-residential buildings, the following credit against the Fire Protection Impact Fee is authorized.

For any newly constructed non-residential building that includes an effective sprinkler system, a credit equal to ten percent⁴ of the base impact fee, calculated as described above, may be

⁴ The ten percent ratio is based on the determination of the Vermont League of Cities and towns that it could grant a

awarded. To qualify for this credit the developer must show a letter of intent from an insurance company to issue coverage for the building with a credit for sprinklers, or must demonstrate that the sprinkler system has been designed to meet the guidelines of the Insurance Rating Organization (ISO) with no more than 25 deficiency points.

VIII Exemptions or Waivers:

Vermont's Impact Fee Enabling Ordinance, 24 V.S.A., Section 5205, authorizes municipalities to exempt certain types of development from all or part of impact fees, provided that the development achieves policies or objectives clearly stated in the municipal plan. Thus, the Town's Impact Fee Ordinance may authorize the Selectboard to exempt certain developments from all or part of any duly adopted impact fees. Such developments might include such things as affordable housing, or construction of or additions to municipal facilities where the need for such project has been identified in the current Municipal Plan.

credit of ten percent of premiums to buildings fitted with effective sprinkler systems.

TOWN OF HINESBURG

POLICE PROTECTION IMPACT FEE ANALYSIS

Prepared By

Michael J. Munson, Ph.D., FAICP

I. INTRODUCTION:

The Town of Hinesburg, Vermont, has recently updated its Town Plan and its Capital Budget and Program. Through that process, the Town determined that it needed to make some significant investments in its Public Safety infrastructure (facilities and equipment) in order to be able to provide adequate service to anticipated future development. In particular, the Town identified the need for a new Police Station (to be part of a new public safety building shared with the Fire Department and Rescue Service). This costly investment is necessary both to relieve overcrowding at the present facility and to accommodate additional service demands as the community continues to grow. The Town feels that it is appropriate for new development to finance a proportionate share of the costs of this investment. To this end, the Town has requested an analysis leading to the establishment of Police Protection Impact Fees. The purpose of the impact fee program is to allocate to the anticipated new development the appropriate share of the costs of planned police protection facilities needed to accommodate the needs of the development.

The Selectboard has chosen to include in its Capital Budget and Program funding for a police station to replace the present police station (a retrofitted former residence containing 1,728 square feet of internal floor space). An option under review is to construct 4,600 square feet of new space to be contained in a new public safety building. This building will be constructed on the site of the existing fire station, and will also provide additional space for the Fire Department. In total, the planned building will contain 13,000 square feet of space, 4,600 of which will be devoted to the Police Department.

The Hinesburg Community Police Department provides a wide range of services to residents and businesses in the community. This includes various law enforcement activities such as responding to burglaries or thefts, personal attacks, various hazards, etc., to traffic control, emergency assistance, and providing an increased sense of security. As the community grows, the demands for these services are expected to continue to increase. The planned new police facility will be designed to accommodate the increasing demands for at least two decades. It is appropriate that a portion of the cost of this facility be borne by the anticipated new development which will generate the increased demands for service.

This impact fee analysis will be based on estimates of the Town's costs for providing the capital facilities and equipment needed to provide police protection services to existing and anticipated development through at least the year 2028. To measure this, estimates will be developed of the number of police service calls per person and per 1,000 square foot unit of non-residential development. When combined with the number of calls to which an officer can respond per year, the amount of station floor area needed to support an officer, and the number of residents in various sized dwelling units, it will be possible to estimate average unit costs to the Town to provide police service to proposed new development. This will be the foundation for the base

police protection impact fee. This base impact fee will be reduced by any credits needed to offset other payments for police facilities that might be made by the new development.

The process for developing the formula for calculating police protection impact fees includes the following steps:

- 1) The estimation of the total cost to the Town (in current, 2009, dollars) of the planned new police station facility
- 2) The estimation of the expected residential population and residential police calls per year by the year 2028.
- 3) Estimation of the total amount of non-residential development and the number of non-residential calls per year by the year 2028.
- 4) Estimation of the total cost per unit of development to the Town for the police facilities needed to respond to the anticipated volume of calls in the year 2028.
- 5) Estimation of any credits that are needed to offset any double payments for police protection facilities.

II. Estimating the Cost of Police Protection Facilities:

The Hinesburg Community Police Department operates out of a station located on Route 116 in the center of the Village. The building is a former residence and contains 1,728 square feet of finished space plus an unheated garage used for storage and occasionally as a sally port. The building provides general work space but does not include interrogation rooms, weapons storage rooms, locker/shower facilities, or training space.

The Department currently includes 5.125 full time equivalent officers, including the Chief. The current building provides an average of 337 square feet per full time equivalent officer (FTE), which is far below a more normal figure of 550 to 600¹ square feet per FTE. Assuming a lower ratio of 500 square feet per FTE, Hinesburg's current force would justify a total of just over 2,563 square feet of office space, plus the sally port.

The proposed new facility is to contain 4,600 square feet of space, including a sally port. If it is assumed that the sally port would account for 800 square feet, the planned facility would include 3,800 square feet of office space. At the assumed ratio of 500 square feet per FTE, this would be adequate for a force of 7.60 FTE. As shown below, this will not be fully utilized within a twenty year window, but is roughly consistent with thirty year projections. It must also be noted that 2,800 square feet (61 percent) of the new station is needed to replace existing space and remedy

¹ This is based on s summary of small police stations contained in the presentation to the Littleton, MA, Selectboard by the police chief as they considered a new station. The survey listed fifteen departments ranging from 14 to 52 FTE. The ration of square feet to FTE ranged from 449 to 640. The average was 535 and the median was 607. There was a fairly clear trend that the smaller the department, the greater the square feet per FTE.

existing deficiencies. Thus, only 39 percent of the total project cost can be funded by impact fee revenues.

The proposed structure is expected to cost \$676,000 to build (construction cost of \$146.96 per square foot). If it is funded with a thirty year bond at 5% interest, the total cost, including interest will be \$1,233,700. This amounts to \$268.20 per square foot.

Data collected by the department for the years (2004 through 2008) indicate that the department has responded to an average of just under 1,430 calls per year. It must be noted, however, that only in 2008 were all "medical emergency" and "persons assisted" calls recorded. In 2008, calls totaled 1,794. Similar data for the first six months of 2009 suggest that the number of calls has declined slightly or held constant.

The Chief has estimated that approximately 90 percent of the department's work load is residential based, with the remaining 10 percent being associated with some form of non-residential development.

During the same period (2004 through 2008) the Town's population increased from an estimated 4,340 to an estimated 4,660—an average growth of 40 persons per year. This is associated with an increase in housing stock of approximately 15 units per year.

The available data suggest a residential call rate of 0.34 calls per person, per year. It is reasonable to expect that this call rate will increase slightly over the coming decades. For the purposes of this analysis, a residential call rate of 0.35 calls per person per year will be assumed. This yields the following estimates of annual calls:

TOTAL RESIDENTIAL POLICE CALLS PER YEAR

Residential Calls per Year	Ten years	Twenty years	Thirty years
	1,771	1,911	2,051

As noted above, the Department estimates that ten percent of its calls stem from non-residential development². Thus, in 2008 and 2009 there were approximately 175 non-residential calls per year. In 2008, there was approximately 424,000 square feet of non-residential development, yielding a ratio of calls per 1,000 square feet of 0.4. This includes "emergency medical" and "persons assisted" calls, and is expected to increase to 0.5 calls per 1,000 square feet over future decades.

Non residential development is expected to increase at the same rate as residential development (0.8 percent per; year) which suggests an average increase of 3,500 square feet per year. This

^{2.} Non-residential calls do not include school related calls.

growth expectation, combined with the increasing call ratio, will result in 230 non residential calls in 2018, 247 calls in 2028 and 265 calls in 2038.

The estimated residential and non-residential police calls per year, when added, result in estimates of total expected calls per year, as shown in Table PP-1. The department estimates that one full time equivalent officer can respond to a total of 300 calls per year. In 2008 the total of 1,794 calls would require 5.98 officers. The projected call levels (both residential and non-residential) described above suggests future staff levels also shown in Table PP-1:

TABLE PP-1
PROJECTED CALL VOLUME AND STAFF LEVELS

Year	Total calls	Staff level
2008	1,794	5.98 FTE
2018	2,001	6.67 FTE
2028	2,158	7.19 FTE
2038	2,316	7.72 FTE

A. Base Impact Fee For Residential Properties:

If each new resident generates 0.35 calls per year, and if each FTE officer can respond to 300 calls per year, and if each FTE officer requires 500 square feet of building space, than each resident will generate the need for 0.001167 FTE officers, which in turn requires 0.5833 square feet of building space. At a total cost of \$268.20 per square foot, the cost to meet the needs of a single resident will be \$156.45.

This will be the base residential impact fee. What remains is to estimate the number of residents that will occupy new dwelling units of different sizes and types. The Center For Urban Policy Research at Rutgers University has published an extensive set of tabulations of the 2000 Census Public Use Microdata Samples, by state, which provided the average population of dwelling units, by number of bedrooms, for different housing types. A review of these tabulations for Vermont revealed that the housing type had little impact on the number of occupants, but that the driving factor was the number of bedrooms. It appeared that a ratio of one person per bedroom provides a good estimate of dwelling occupants up through four bedrooms³, and that for five or more bedrooms there will be an average of 4.5 occupants. Thus, the base impact fee for new residential dwellings is determined by multiplying the number of occupants (based on number of bedrooms) by the base fee per person \$156.45), as shown in Table PP-2

³ Studio apartments are considered to be one bedroom units for these tabulations.

TABLE PP-2 BASE IMPACT FEES FOR DWELLINGS UNITS BY NUMBER OF BEDROOMS

Number of Bedrooms

	1	2	3	4	5+
Persons per dwelling	1.0	2.0	3.0	4.0	4.5
Fee per person	\$156.45	\$156.45	\$156.45	\$156.45	\$156.45
Base impact fee	\$156.45	\$312.80	\$469.20	\$625.60	\$703.80

From these base fees must be subtracted appropriate credits to offset any tax or other payments used to fund the planned new police facility.

B. Base Impact Fee for Non-Residential Properties:

For non-residential development, the analysis is based on the number of calls per 1,000 square feet of floor area. If each 1,000 square feet of non-residential space generates 0.5 calls, and if each FTE officer can respond to 300 calls per year, and if each FTE officer requires 500 square feet of building space, than each 1,000 square feet of new non-residential development will generate the need for 0.001486 officers, which in turn require 0.83333 square feet of building space. At an average total cost of \$268.20 per square foot, the cost of providing new police station space needed for each 1,000 square feet of new non-residential development will be \$223.50. This will be the basis of the police protection impact fee for non-residential development.

Thus, a proposed non-residential development of 5,000 square feet would be assessed a base police protection impact fee of $5,000/1,000 \times $223.5 = $1,117.50$. From this would be subtracted appropriate credits to offset any tax or other payments used to fund the planned new police facility.

III. Computing credits to offset possible double payments:

The Town of Hinesburg will be making annual payments for the planned police facility for just over 30 years (to include the entire bond repayment period). Some of these payments will be offset by impact fee revenues, but the remainder will be covered by general tax revenues generated from the Town's tax base, including the land on which new development is now taking place and the new development after it is completed. If the new development is assessed police protection impact fees, it should have no further obligation to pay for the planned police station. It is, however, not possible to separate taxes paid by development that has paid impact fees from the rest of the general tax revenues. Thus, it is necessary to compute a credit to offset such double payments. The credits against the impact fee should equal the present discounted value of

the stream of past and future tax payments from the development that would be used for expenditures on the police station.

To do this, it is first necessary to tabulate the annual payments made on the police station bond, net of anticipated impact fee revenues. This is shown in TABLE PP-3, on the following page. The credits will be based on the stream of tax payments needed to cover these annual expenditures over the coming years. In TABLE PP-3 it is assumed that impact fees will cover 39 percent of the cost of the station. The annual expenditures paid from tax revenues are inserted in the "Annual Expense" column of Table PP-4.

The stream of tax payments is broken into two parts. The first includes tax payments made before the development comes onto the grand list (i.e., the tax payments on the undeveloped land), which will be referred to as <u>past tax payments</u>. The second part includes tax payments after the development comes onto the grand list (i.e., the tax payments on the developed land and new structure), which will be called <u>future tax payments</u>.

The next step in the analysis is to estimate credits for past and future tax payments based on units of \$1,000 of assessed value of either the raw land or of the residential or non-residential development (including developed land plus the completed structure. The first step is to estimate the tax rate necessary to cover the annual expenditures tabulated in Table PP-3. This is done by divided the annual payment by the estimated grand list for each year (the future grand list values are based on the current grand list (4,950,396) along with an assumed annual growth rate of 1.9%) thus generating a tax rate necessary to cover the specified annual expenditure. This tax rate is then applied to a unit of assessed value of \$1,000.

TABLE PP-3
ANNUAL POLICE PROTECTION EXPENDITURES

	- 11 12 1 - 2 1 1 - 1			LAFLINDITOR	
	Station	Percent from	Total	Expenditures from	Expenditures
Year	Expenditures	Impact Fees	Expenditures	Impact Fees	from taxes
2009	\$0	39%	\$0	\$0	\$0
2010	\$0	39%	\$0	\$0	\$0
2011	\$33,800	39%	\$33,800	\$13,182	\$20,618
2012	\$56,333	39%	\$56,333	\$21,970	\$34,363
2013	\$55,207	39%	\$55,207	\$21,531	\$33,676
2014	\$54,080	39%	\$54,080	\$21,091	\$32,989
2015	\$52,953	39%	\$52,953	\$20,652	\$32,301
2016	\$51,827	39%	\$51,827	\$20,213	\$31,614
2017	\$50,700	39%	\$50,700	\$19,773	\$30,927
2018	\$49,573	39%	\$49,573	\$19,333	\$30,240
2019	\$48,447	39%	\$48,447	\$18,894	\$29,553
2020	\$47,320	39%	\$47,320	\$18,455	\$28,865
2021	\$46,193	39%	\$46,193	\$18,015	\$28,178
2022	\$45,067	39%	\$45,067	\$17,576	\$27,491
2023	\$43,940	39%	\$43,940	\$17,137	\$26,803
2024	\$42,813	39%	\$42,813	\$16,697	\$26,116
2025	\$41,687	39%	\$41,687	\$16,258	\$25,429
2026	\$40,560	39%	\$40,560	\$15,818	\$24,742
2027	\$39,433	39%	\$39,433	\$15,379	\$24,054
2028	\$38,307	39%	\$38,307	\$14,940	\$23,367
2029	\$37,180	39%	\$37,180	\$14,500	\$22,680
2030	\$36,053	39%	\$36,053	\$14,061	\$21,992
2031	\$34,927	39%	\$34,927	\$13,622	\$21,305
2032	\$33,800	39%	\$33,800	\$13,182	\$20,618
2033	\$32,673	39%	\$32,673	\$12,742	\$19,931
2034	\$31,547	39%	\$31,547	\$12,303	\$19,244
2035	\$30,420	39%	\$30,420	\$11,864	\$18,556
2036	\$29,293	39%	\$29,293	\$11,424	\$17,869
2037	\$28,167	39%	\$28,167	\$10,985	\$17,182
2038	\$27,040	39%	\$27,040	\$10,546	\$16,494
2039	\$25,913	39%	\$25,913	\$10,106	\$15,807
2040	\$24,787	39%	\$24,787	\$9,667	\$15,120
2041	\$23,660	39%	\$23,660	\$9,227	\$14,433

This will yield a tax payment each year on a unit of \$1,000 needed to cover that year's annual expenditure. The <u>credit for past tax payments</u> will be the present value of the stream of tax payment from the beginning of the analysis period up to the year in which the development is constructed. The <u>credit for future tax payments</u> will be the present value of the stream of tax payments from the time the development is constructed until the end of the bond term. This analysis is shown in TABLE PP-4. Note that while TABLE PP-4 goes only to 2020, the analysis actually extended to the end of the bond period (2041). The shorter period is shown in TABLE PP-4 because it is assumed that the impact fees will be updated before the end of that period.

TABLE PP-4 IMPACT FEE CREDIT FOR TAX PAYMENTS

ASSUME 2006 MUNICIPAL GRAND LIST EQUALS \$4,950,396 Grand List has grown at 1.9 % and will continue to grow at 1.90% Unit of value \$1,000

	,				Utilt of value \$1,000
				CREDITS FOR	CREDITS FOR
DWELLING	ANNUAL	TAX RATE	TAX ON	PAST TAXES ON	FUTURE TAXES ON
YEAR	EXPENSE	NEEDED	\$1,000	\$1,000 OF LAND	\$1,000 OF VALUE
2009	\$0	\$0.000	\$0.00	\$0.00	\$0.61
2010	\$0	\$0.000	\$0.00	\$0.00	\$0.64
2011	\$20,618	\$0.004	\$0.04	\$0.00	\$0.67
2012	\$34,363	\$0.007	\$0.07	\$0.01	\$0.67
2013	\$33,676	\$0.006	\$0.06	\$0.08	\$0.64
2014	\$32,989	\$0.006	\$0.06	\$0.15	\$0.60
2015	\$32,301	\$0.006	\$0.06	\$0.22	\$0.57
2016	\$31,614	\$0.006	\$0.06	\$0.29	\$0.54
2017	\$30,927	\$0.005	\$0.05	\$0.36	\$0.52
2018	\$30,240	\$0.005	\$0.05	\$0.44	\$0.49
2019	\$29,553	\$0.005	\$0.05	\$0.51	\$0.46
2020	\$28,865	\$0.005	\$0.05	\$0.59	\$0.43

The figures in the two right hand columns of TABLE PP-4 are the values used to compute credits for both residential and non-residential development. The relevant figures are selected from the row representing the year in which the new dwelling comes onto the grand list.

A. Credits for Residential Development:

In order to use TABLE PP-4 to calculate <u>credits for past tax payments</u> it is necessary to have estimates of the value of the raw land used for the proposed dwelling and of the completed development (land plus structure).

A review of current tax assessments of undeveloped parcels in excess of 25 acres revealed that raw land was, on average, assessed at a value of \$1,200 per acre. For single family detached dwellings, the size of the lot, in acres, can be multiplied by \$1,200 to get the estimated value of raw land for the dwelling. For attached dwellings (condominiums and flats) the size of the total parcel (in acres) can be divided by the number of units permitted on the parcel to get the average amount of raw land (in acres) per unit. This, in turn, can be multiplied by \$1,200 to get the estimated raw land value for each dwelling. The estimated value of the raw land can then be expressed in terms of units of \$1,000.

For the assessed value of the completed new dwelling the following procedure should be followed. The total floor area of the proposed dwelling should be divided into the amount of finished interior floor area and the amount of garage floor area. The structure value is estimated as \$120 per square foot of finished interior floor area plus \$80 per square foot of garage space.

Consider the following examples:

- 1. A modest single family dwelling on a two acre lot, to be built in 2013, that contains 2,000 square feet of interior floor space plus 576 square feet of garage (a two car garage). The estimated structure value would be 2,000 x \$120 + 576 x \$80 = \$286,800.
- 2. A small condominium (one of eight to be built on a four acre parcel in 2013) that contains 1,500 square feet of interior floor area plus 264 square feet of garage. In this case, the estimated structure value would be $1,500 \times 120 + 264 \times 80 = 201,120$.
- 3. A one bedroom flat (900 square feet) with no garage (one of sixteen to be built on a four acre parcel in 2014) would have an estimated structure value of 900 x \$120) = \$108,000.
- 4. A luxury single family home to be built on a five acre parcel in 2015, containing 3,500 square feet of interior space plus a three car garage of 24 x 36 would have an estimated structure value of $3,500 \times 120 + 864 \times 80 = 489,120$.

To these figures should be added the value of the developed land estimated to be 20 percent of the structure value. In all cases, the estimated value is expressed in units of \$1,000 of value.

TABLE PP-5 shows the values computed for the four example dwellings, using the assumptions described above. These values provide everything needed to compute the base impact fee and the credits using TABLE PP-4.

TABLE PP-5
ESTIMATED VALUES FOR EXAMPLE DWELLINGS

Project Description	2,000 sf single family, 3 bedroom home, two car garage (24' x 24'), two acre lot, built in 2013	1,500 sf, 2 bedroom condominium, one car garage (264 sf), one of eight on 4 acres in 2013	900 sf one bedroom flat, no garage, one of sixteen on a 4 acre lot in 2014	3,500 luxury four bedroom home with three car garage (864 2f) on 5 acre lot in 2015
Raw land value at \$1,200/acre	2 x \$1,200 = \$2,400	1/2 x \$1,200 = \$600	1/4 x \$1,200 = 400	5 x \$1,200 = \$6,000
Structure value \$120/finished sf plus \$80/sf garage	2,000 x \$120 + 576 x \$80 = \$286,800	1,500 x \$120 + 264 x \$80 = \$201,120	900 x \$120 = \$108,000	3,500 x \$120 + 864 x \$80 = \$489,120
Developed lot value 20% or structure	.20 x \$286,800 = \$57,360	.20 x \$201,120 = \$40,224	.20 x \$108,000 = \$21,600	.20 x \$489,120 = \$97,284
Total assessed value, Structure plus lot	\$286,800 +\$57.360 = \$334,160	\$201,120 + \$40,224 = 241,344	\$108,000 + \$21,600 = 129,600	\$489,120 + \$97,284 = 586,944

The actual impact fee will be the base fee calculated on the basis of number of bedrooms shown in Table PP-2 on page 6.

The <u>credit for past tax payments</u> will be the value of raw land divided by \$1,000 multiplied by the appropriate value from the next to right hand column of TABLE PP-4.

The <u>credit for future tax payments</u> will be the total assessed value divided by \$1,000 multiplied by the appropriate value from the right hand column of TABLE PP-4.

These calculations are shown in TABLE PP-6.

TABLE PP-6
IMPACT FEE CALCULATIONS FOR EXAMPLE DWELLINGS

Project Description	2,000 sf three bedroom single family home two car garage (24' x 24') two acre lot, built in 2013	1,500 sf two bedroom condominium, one car garage (264 sf), one of eight on 4 acres in 2013	900 sf one bedroom flat, no garage, one of sixteen on a 4 acre lot in 2014	3,500 luxury four bedroom home with three car garage (864 2f) on 5 acre lot in 2015
Base Impact Fee From Table PP-2	\$469.20	\$312.80	\$156.45	\$625.60
Credit for past tax	\$2,400/\$1,000 x \$0.08=	\$600/\$1,000 x \$0.08 =	\$400/\$1,000 x \$0.15 =	\$6,000/\$1,000 x \$0.22
payments	\$0.192	\$0.048	\$0.06	\$1.32
Credit for future	\$334,160/\$1,000 x \$0.64 =	\$241,344/\$1,000 x \$0.64 =	\$129,600/\$1,000 x \$0.60 =	\$586,944/\$1,000 x \$0.57 =
tax payments	\$213.86	\$154.46	\$77.76	\$334.56
Net impact fee	\$255.15	\$158.29	\$78.63	\$289.72

B. Credits for Non-Residential Development:

As described above, the police protection impact fee for non-residential development is computed on the basis of the total floor area to be constructed. This is multiplied by the base fee of \$223.50 per 1,000 square feet to yield the base impact fee. Calculation of the credits will be based on the values from TABLE PP-4, but the process for estimating the values of raw land and total assessed value of the new development are slightly different.

For the value of raw, undeveloped land, the assessed value of the parcel in the Town's tax records can be used. If the proposed development will use only a portion of the parcel, the value can be pro-rated accordingly. Alternatively, the raw land value can be assumed to equal ten percent of the estimated post construction value of the development as described below.

The process for estimating post construction value is based on the property assessment manual published by Marshall and Swift which is widely used by Vermont municipal assessors and listers. This manual provides unit value estimates (dollars per square foot) for different uses (i.e., commercial, office, manufacturing, etc.), different types of construction and different qualities of construction. In addition, adjustment factors are provided for local variations such as extreme climate (increased heating system value) or unusual local construction costs. The assessment manual also provides unit costs for site improvements such as general landscaping and parking.

Drawing on the Marshall & Swift manual, TABLE PP-7, on page 13, was prepared which provides typical unit value estimates (dollars per square foot of structure and site development) for a list of common uses, for a number of different structure types. Since the intent is to generate typical or average value estimates, construction quality was always assumed to be "average", and the associated values from Marshall And Swift were used.

TABLE PP-7 includes unit assessed value figures (dollars per square foot) for the following uses: Industrial/manufacturing; Engineering and Research; Office (general office activities); Medical Office; General Retail; Automotive Service Facilities; Group Care Facilities; and Motels. It is felt that most applicable non-residential developments will fall into one of these general categories. Four structure types are included in the table: Steel skeleton or reinforced concrete skeleton structures; Masonry or concrete bearing wall structures; Wood frame structures; and Steel (prefabricated) structures. Again, it is felt that most projects will fall into one of these structure categories.

Use of TABLE PP-7 to estimate post construction value involves selecting the column indicating the proposed use of the structure and following that column to where it intersects with the row representing the proposed structure type. The value at the intersection represents the assessed value of the development per square foot of building space constructed.

For instance, a 10,000 square foot masonry bearing wall structure used for a medical office in 2015 will have a unit assessed value of \$120.00 per square foot, and a total assessed structure value of 10,000 s.f. x \$120.0/s.f. = \$1,200,000.

The value of the raw land prior to development can be based on assessed land value from tax data for the parcel prior to development, if available, or can be estimated as ten percent of the estimated value of the structure plus site improvements. In this example, the assessed land value is not known, so the latter approach is used. The land value becomes ten percent of \$1,200,000, or \$120,000 (120 units of \$1,000).

With this information, the base impact fee for non-residential development, and the credit figures from Table PP-4, net impact fee on the proposed development can be calculated.