

The third budget workshop was held on Thursday, April 23, 1987, called to order by Chairman David A. Gessert at 7:10 p.m. Council Members Adams, Bergamini, Gouveia, Killen, Polanski, Rys and Gessert were present. Mrs. Papale was not present. Mr. Holmes arrived at the meeting at 8:45 p.m. Also present were Mayor William W. Dickinson, Jr. and Comptroller Thomas A. Myers.

TRANSIT AUTHORITY, page 33, A/C 1150

A motion was made by Mr. Rys to accept page 33 as presented, seconded by Mr. Killen.

VOTE: Unanimous ayes; motion duly carried.

BOARD OF SELECTMEN, page 34, A/C 1200

A motion was made by Mr. Polanski to accept page 34 as presented, seconded by Mr. Rys .

VOTE: Unanimous ayes; motion duly carried.

HOLIDAYS & CELEBRATIONS, page 37, A/C 1310

A motion was made by Mr. Rys to move page 37 for discussion, seconded by Mr. Polanski. (motion withdrawn)

Mr. Rys commented that there is a special celebration coming up and asked if there was money budgeted for it and Mr. Gessert replied that it would come under A/C 6100.

Mr. Killen explained line item 6100 stating that it consists of Memorial Day - \$1500, British visit - \$1,000, Halloween - \$500., Race Day - \$300., and Administration - \$75.00.

Mr. Gessert asked why we have to pay for the British to come over here and Mr. Killen explained that they come over every year, and they pay for us to go over there.

Mr. Killen added Contingency Fund - \$200. and Misc. - \$300. which includes the Easter Egg Hunt, Christmas, etc....

Mr. Killen explained that he will check into the Christmas Lights for Mr. Gessert and get back to him with the information.

Mrs. Bergamini made a motion to table this account, seconded by Mr. Killen.

VOTE: Unanimous ayes; motion duly carried.

BOARD OF TAX REVIEW, page 40, A/C 1390

A motion was made to move page 40 for discussion by Mr. Polanski, seconded by Mrs. Bergamini.

Mr. Gessert pointed out that the amount is the same as it was last year.

Mr. Killen commented that he does not know how much they really spent and Mrs. Bergamini commented that it doesn't look like they spent anything.

A motion was made by Mrs. Bergamini to cut \$100. from Office Supplies, \$200. from Assessor's School and \$100. from Secretarial Services, seconded by Mr. Killen.

VOTE: Unanimous ayes; motion duly carried.

A motion was made by Mrs. Bergamini to accept page 40 as amended, seconded by Mr. Killen.

VOTE: Unanimous ayes; motion duly carried.

BOARD OF TAX REVIEW, page 151, A/C 1390

A motion was made by Mr. Rys to accept page 151, A/C 1390 as presented, seconded by Mrs. Bergamini.

VOTE: Unanimous ayes; motion duly carried.

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TAX COLLECTOR, page 42, A/C 1420

A motion was made by Mrs. Bergamini to move page 42 for discussion, seconded by Mr. Polanski.

Mr. Rys asked to have line 5200, Maint. of Equipment explained and Mr. Norman Rosow explained that they purchased a typewriter and they bought a cash register and the maintenance contracts that they have all gone up.

Mr. Rys asked why there was such a large amount under line 4000, Office Supplies and Mr. Rosow explained that right now he is planning on automating the billing. Right now, we buy bills every year and at the end of the year we have a stack of bills that are thrown out because we anticipate what our needs are going to be but, I noticed in our storeroom over the years, there are stacks, and those are wasted. Secondly, when we make up the invoices every year and stuff them in envelopes, the town is growing and we have thousands of accounts and we spend almost 10 days stuffing. What I am proposing to do is, put the town in a position where we never buy envelopes again, we never buy bills again. We are going to run a bill that looks like a Trans-O-Gram and I am going to make it a universal bill, it will always be the same and will not be wasted. Once the Mill Rate is set and we don't have to stuff anymore, we can press a button in the computer room, spit out all of the bills, separate the bank ones and literally, on June 1st, we should be able to mail out all of the bills. Right now, we mail them out about June 15th and take in about \$1,000,000 in advance payments and I would assume that we can increase the advance payments and the Comptroller would be able to invest that money. There is always an initial cost when you start something like this. I made calls before I submitted this into the budget and the ranges that I get are anywhere from \$7,000 to \$9,000. I feel that by putting in \$9,000, I will not have to come back to you for more money.

Mr. Rys commented that he is very pleased with Mr. Rosow's comments.

Mr. Killen asked to have line 8900, Tax Refunds explained and Mr. Rosow explained that about 99% of all of the refunds that they give out are for the Grand List during this current year. Most of this money is for the 1985 Grand List.

VOTE: Unanimous ayes with the exception of Mr. Gessert who was not present for the vote; motion duly carried.  
(vote to accept page 42)

TAX COLLECTOR, page 153 - Personnel Detail and Salary Calculations  
A/C 1420

A motion was made to move page 153, by Mr. Polanski, seconded by Mr. Killen.

VOTE: Unanimous ayes with the exception of Mr. Gessert who was not present for the vote; motion duly carried.

TAX COLLECTOR, page 135 - Capital Requests A/C 1420

A motion was made by Mr. Rys to move page 135, seconded by Mr. Polanski.

Mrs. Bergamini asked Mr. Rosow to explain the Electronic Typewriter and Mr. Rosow explained that this typewriter is a Sharp and for the reporting that they have to do for Mr. Myers, it has an extra size carriage and has some memory in it.

VOTE: Unanimous ayes with the exception of Mr. Gessert who was not present for the vote; motion duly carried.

ASSESSOR, page 43 - A/C 1430

A motion was made by Mr. Rys to move page 43 for discussion, seconded by Mr. Polanski.

Mr. Killen commented that under line 5200, Maint of Equipment, 50% has been spent and asked Mr. Barta if he expected to spend the rest of it and Mr. Barta explained yes and added that when his new typewriter runs out of its warranty,, which will be just before June, I will have to put it on the re-service contract at that time.

Referring to line 6120, Xerox Rental, Mr. Killen asked to have this explained and Mr. Barta explained that he needs paper and supplies and that is all part of it, a separate billing. 321

Mr. Killen commented that Data Processing has gone up \$3,000 and Mr. Barta stated that this was a firm figure and added that this is what the changes in State Statute require.

Mr. Rys asked to have line 2000, Telephone explained because of the increase and Mr. Barta explained that they make a lot of long distance phone calls which is still ongoing. Mr. Barta added that his base telephone bill is about \$200. without any long distance calls.

VOTE: Unanimous ayes with the exception of Mr. Gessert who was not present for the vote; motion duly carried.

ASSESSOR, pages 153-154, Personnel Detail and Salary Calculations  
A/C 1430

A motion was made by Mr. Rys to move pages 153 & 154, seconded by Mr. Polanski.

Mr. Rys asked Mr. Barta why he requested \$8,000. for Overtime (Clerical Staff) and Mr. Barta explained that there is a lot of work out there.

VOTE: Unanimous ayes with the exception of Mr. Gessert who was not present for the vote; motion duly carried.

Referring to the Treasurer's Department, Mayor Dickinson commented that Charlotte would be here later and explained that they put in about the same money as we spent this year on insurance figuring, if we could get into some self-insurance we could still put it in as reserve. Otherwise, the word was, the insurance premiums would probably be around the same level. We are hoping that with the Risk Manager hired, we are going to be able to implement something in the way of self-insurance and not be paying out the premiums, but we still need the money as a reserve. On the Library Account, there is a slight reduction. I reduced their request by the amount of money they had in there for family dental and Sunday hours. Everything else, I approved. I didn't feel that we wanted to get into Sunday hours and I didn't agree with giving them family dental when we are keeping family dental out of everyone else's contracts.

Mrs. Bergamini commented that she could not see the need for Sunday hours and agreed with Mayor Dickinson.

Mayor Dickinson added that the \$22,000 for the parking lot is still there so, it wasn't a portion of that that came out.

BOARD OF ETHICS, page 48, A/C 1580

A motion was made by Mr. Rys to accept page 48 as presented, seconded by Mr. Polanski.

VOTE: Unanimous ayes with the exception of Mr. Gessert who was not present for the vote; motion duly carried.

ZONING BOARD OF APPEALS, page 113, A/C 7020

Mrs. Bergamini explained that she checked with Mary Beth and was told that agendas have increased so much and the ad gets more expensive and this is really a ballpark figure. They had to come before us to get some more money at one point.

Mr. Killen commented that the money the Council transferred, is still unexpended. Mrs. Bergamini explained that they divide it up between the meetings.

Mrs. Fetta checked the transfer and explained that the money was for advertising and secretarial in the amount of \$2,600, \$1,300 each.

Mr. Killen pointed out that nothing has been expended in line item 7990, Seminars and Dues in the past 2 years.

A motion was made by Mr. Rys to delete line item 7990, Seminars and Dues, in the amount of \$100. bringing the balance to -0-, seconded by Mr. Killen.

VOTE: Unanimous ayes with the exception of Polanski who voted no and Gessert who was not present for the vote; motion duly carried. 302

A motion was made by Mr. Rys to move page 113 as amended, seconded by Mr. Polanski.

VOTE: Unanimous ayes with the exception of Gessert who was not present for the vote; motion duly carried.

ZONING BOARD OF APPEALS, page 179 A/C 7020 - Personnel Detail and Salary Calculations

A motion to accept page 179 was made by Mr. Rys, seconded by Mr. Polanski.

VOTE: Unanimous ayes with the exception of Mr. Gessert who was not present for the vote; motion duly carried.

LIBRARY, page 46, A/C 1520

A motion was made by Mr. Rys to move page 46 for discussion, seconded by Mr. Polanski.

Ms. Leslie Scherer commented that the Sunday hours are something that they are very interested in. The Library is very heavily used and we have a lot of people inquiring about whether or not we are open on Sunday. It comes to about \$10,000 and it would be open from October to April, the busier time.

Mr. Robert Carmody explained that it has been very successful in some surrounding towns.

Mrs. Bergamini stated that she is very pro library but added that she can't see this. Ms. Scherer explained that it would be open for 4 hours.

Mr. Polanski added that once something like this starts, it never ends. I don't see the necessity for being open 7 days a week, and added that he agrees with Mrs. Bergamini.

Mr. Gouveia commented that being open on Sunday would be helpful but on the other hand they are asking for an 11% increase and last year was almost a 60% increase. Ms. Scherer explained that last year, a lot of that was for investment in the video. With the increase this year, we are going to be paving the parking lot which is a Capital item.

Mr. Adams commented that it seems throughout the years, we tend to make things easier for the young people and one of the things that I dislike very much is the way that they procrastinate until Sunday afternoon to get everything done and this is just another opportunity for them to wait until the last minute to do everything. I think that Sunday should be a day for the family to get together.

Ms. Scherer explained that they are looking at this to be a family day.

Mr. Killen commented that he is not happy with the parking because he does not like the way it was handled, because we were not consulted in the least.

Mr. Carmody explained to Mr. Killen that by using the Association money to purchase the land, we were in fact kind of giving out of the Association rather than coming to town and asking for the money to purchase the additional land for parking. We felt we were contributing to the town by using the Association money.

Mr. Killen stated that the Council should have been told what was going on from the beginning and Mr. Carmody explained that they had the opportunity at the time, the neighbor offered it to them. It seemed like a good opportunity at the time and since we were using our money, we didn't feel like we were stepping on anyone's toes when we were doing it.

Referring to the raises for salary people, janitors, hourly, Mr. Rys asked if there was something else incorporated into this figure from the actual last year as opposed to this year, and Ms. Scherer explained that the salaries are 6% across the board and some people who are not at the top of their step, we also have an increment. We have a step system for 5 years. People who are librarian 1, step 1,

in addition to the overall scale going up 6%, would have another 3% or 4% into their salary. There is no new person, except we did add a reference librarian last year who came on board in November so, we only had nine months of her salary and this year we have the full 12 months of her salary. The hourly is all at the minimum wage. Our pays were \$3.37 and we want to raise them to \$4.25. We are having a very hard time keeping people and attracting people. Regarding the custodian, we now use part of our paging hours to help the custodian in the morning (2 or 3 hrs.) and we moved that from the hourly to the janitors because it is really more accurate. The janitor is a 6% increase.

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Mrs. Bergamini asked Ms. Scherer for a ballpark figure for what it costs for janitorial services and Ms. Scherer explained that aside from snow plowing and lawn care which is \$160.00 a year, this is our entire janitorial. That includes lawn mowing etc. and we use part-timers in the mornings and we have a lot of community service people, which are people that are assigned by the court to do volunteer service. When we priced out having a service, we found that it was a lot higher.

Mrs. Bergamini commented that there is a large difference between the price that the Library pays for janitorial services and the price the Police Department pays and added that this should be looked into.

Referring to the parking, Mayor Dickinson asked Mr. Carmody what the price was and Mr. Carmody replied, \$25,000.

Mayor Dickinson commented that he would like to see the Title of it in the Town of Wallingford.

Mr. Carmody explained that this was their intent, that if it was agreeable, that they would be essentially be in association with the purchase and then deed it to the town.

VOTE: Unanimous ayes with the exception of Mr. Gessert who was not present for the vote; motion duly carried.

INSURANCE, page 123, Treasurer, A/C 8040

Ms. Charlotte Collins explained that the two line items to start with which are hers would be line items 8250 and 8260, which are her General Liability, Auto, Property, Umbrellas, Professional Liability.

A motion was made by Mr. Polanski to accept line items 8250 and 8260, and 8270, seconded by Mr. Rys. (pg. 123 Insurance)

Ms. Collins explained that the figures that were put in are what the policies came in last year at. You appropriated more, but they came in less than the appropriation so they are put in at about what they came in that last year. I believe that they will come in about the same price. Our experience has been good except for the unfortunate accident at the landfill and they are still carrying large reserves on the Toelles Road railroad crossing fatalities. Other than that, our experience with our automobile and our liability has been excellent this year.

Mr. Polanski asked when these policies that Ms. Collins is discussing expire and Ms. Collins answered, July 1st. Ms. Collins added that there is now a statute on the books that we are supposed to get our quotations within 60 days of the expiration of our policy.

Mrs. Bergamini stated to Ms. Collins that if there is a problem, she hopes that she would contact the Council so that an adjustment can be made.

Ms. Collins commented that the new Risk Manager comes on board on Monday.

Mr. Rys asked Ms. Collins if she was going to be using all of the \$610,000 under line item 8250, Town Insurance and Ms. Collins replied yes and added that there are a lot of endorsements that have to come through. All of the new police cars have not appeared on the endorsements. A lot of the big highway dump trucks have not come through on endorsements so, those will come through. As far as the property values increased, we will use it. Ms. Collins added that she will be coming back with a more firm figure, for 8250 and 8260.

Ms. Collins explained that line item 8270 is also hers, and added that they have a \$10,000 deductible on their liability and it has done well. She added that the deductible on their liability was \$2,000. then they went to \$5,000. and this year we are at \$10,000. That is another thing to consider in the 8250 and the 8260 because we have not gotten an endorsement for changing it from \$5,000. to a \$10,000 deductible so, with the endorsement for the cars, I think we will come out. 324

Mr. Gessert asked where we stood as far as Self-Insurance and Ms. Collins explained that you have to set a program up. You cannot jump into it. You have to make a study, you have to make projections, you have to go back into history. If we go self-insured on property, we won't get our liability or auto.

VOTE: Unanimous ayes with the exception of Holmes and Gessert who were not present for the vote; motion duly carried.

Ms. Collins pointed out that the last 5 line items, 8350, 8360, 8370, 8400 and 8410 were also hers.

A motion was made by Mr. Killen to accept line items 8350, 8360, 8370, 8400 and 8410, seconded by Mr. Adams.

Mr. Killen asked to have line item 8350 explained and Ms. Collins explained that it has not been a good year. We have had the majority of the Public Works Department out, Police and Fire have been great. Regarding the Public Works, its the difficulty in having people there that are not physically able to do the job regardless of how many times they go into the hospital and they are not 100% permanently disabled, so we have to keep paying them comp. instead of retiring them or finding them a more suitable job. I have 5 of those people.

Mr. Killen asked if all of the money in that line item will be utilized and Ms. Collins replied, very definitely.

Ms. Collins told the Council that she had a man that went to a Hartford Hospital for a overnight stay. His bill for what they did for him was \$1,582.36. When the diagnostic related charge was applied, his bill is, what we have to pay, \$6,674.40. That is an example of what you are faced with. This is an increase of 321%. This was done to make the hospitals more efficient at a lower cost.

Mrs. Bergamini asked who put through the DRG and Ms. Collins explained that this was the insurance companies, Blue Cross and Blue Shield, who got together and what they did was, take an average of all of the hospitals.

Ms. Collins explained that she wrote letters to the Chairman of the Commission on Hospital and Health Care, Chairman of the Workers Compensation Commission in Hamden, and the Insurance Commissioner.

Mr. Killen requested copies of these letters.

Mr. Gessert asked what would happen if the bills were not paid, and Ms. Collins said that the town would not be sued, the employee would be sued because the employee is always billed.

Mr. Rys pointed out that under line item 8400, Hypertension-Police, \$52,000 has been expended and asked if Ms. Collins if she was going to come close to the \$70,000. Ms. Collins explained that that line item is going to be alright and added that she has 3 Policemen that are retired on a Heart and Hypertension and she has a widow also, and 1 whose medical is being paid.

Mr. Rys asked about the extra \$6,000. and Ms. Collins explained that every October, there is a cost of living increase in the Workers Comp. This increase has to be anticipated.

Mrs. Bergamini asked Ms. Collins if she handles the Board of Education's Comp. and Ms. Collins replied yes.

Mr. Myers explained that they are going to work together with the Utility people and come up with a formula to pro-rate the Risk Management Office next year. The Mayor didn't want to do it in this budget because he felt it was unfair and we thought of it after the budget process was well under way and he didn't want to not let the utilities have input to the amount of the salary of the Risk Management that would be paid by Water and Sewer.

Mr. Gessert stated that he disagrees and added that he looks at the way they are hosing every department in town for data-processing and they should be charged right back. 325

Ms. Collins added that she asked Mr. Myers to separate the 8350 A/C into Town and Board of Education. An awful lot of the Town's Workmens' Comp. is the Board of Education.

Ms. Collins explained that there are state requirements on retirements. A man from the Department of Public Works, if he can't do his job, if he is hired to run the sweeper and he can't, we can't give him a work connected retirement disability. We have to find him something else to do.

Mrs. Bergamini asked what would happen if they could not find him another job to do and Ms. Collins explained that if they don't have any other job for him to do, he has to be paid from here to eternity. It will never cost us less to retire that man than it will to retire him now. This is something that I have been batting my head against a wall for many a year. Get rid of him now. We don't do that. He has to be 100% totally disabled. Work connected, you go out at 75%.

Mrs. Bergamini commented that she agrees with Ms. Collins when she states that this is a total waste.

Ms. Collins added that if a case has gone before the Commissioner and the Commissioner said, "I'm sorry, this is definitely work related", there is nothing that we can do, even if it is stress. The Commissioner is there to see that the employee gets a fair shake and we have the best comp. attorneys in the State of Connecticut.

Mr. Gessert and Mrs. Bergamini stated that they would like to know what they are going to do with some of these people and Ms. Collins explained that according to State Statute, if you are in the Fire or Police Service, and you cannot do your job, you are retired on a Disability Retirement. If our Retirement Act provides, that anyone out on a Disability Retirement, can be examined periodically, but if they are examined and found to be fit, you have to have a slot to put them in. You have to bring them back here and put them in that slot.

Mr. Gessert asked about people with nervous disorders and Ms. Collins said that it depends on whether the Commissioner says that this nervous order was caused by a condition of employment.

VOTE: Unanimous ayes; motion duly carried.  
(approve page 123, line items 8350, 8360, 8370, 8400 and 8410.  
(motion on page 66)

A motion to adjourn was duly made, seconded and carried and the third budget workshop adjourned at 9:10 p.m.

Meeting recorded by:  
Delores B. Fetta

Meeting transcribed by:  
Susan M. Baron, Council Secretary

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THE UNIVERSITY OF CHICAGO

PHYSICS DEPARTMENT

PHYSICS 309

LECTURE 10: QUANTUM MECHANICS

1. THE SCHRÖDINGER EQUATION

The Schrödinger equation is the fundamental equation of quantum mechanics. It describes the time evolution of a quantum system.

For a particle of mass  $m$  moving in a potential  $V(\mathbf{r})$ , the time-dependent Schrödinger equation is

$$i\hbar \frac{\partial \psi}{\partial t} = -\frac{\hbar^2}{2m} \nabla^2 \psi + V(\mathbf{r}) \psi$$

where  $\psi(\mathbf{r}, t)$  is the wave function of the system.

The time-independent Schrödinger equation is obtained by separating variables and assuming a stationary state  $\psi(\mathbf{r}, t) = \phi(\mathbf{r}) e^{-iEt/\hbar}$ .

$$-\frac{\hbar^2}{2m} \nabla^2 \phi + V(\mathbf{r}) \phi = E \phi$$

where  $E$  is the energy eigenvalue. This equation is used to find the energy levels and wave functions of a system.

2. THE HEISENBERG UNCERTAINTY PRINCIPLE

The Heisenberg uncertainty principle states that the position and momentum of a particle cannot both be known to arbitrary precision.

$$\Delta x \Delta p \geq \frac{\hbar}{2}$$

where  $\Delta x$  and  $\Delta p$  are the uncertainties in position and momentum, respectively.

This principle is a direct consequence of the wave-like nature of particles in quantum mechanics.