

J. Margison

**NOT
APPROVED**

JAN 7 1987

PUBLIC WORKS COMMITTEE MEETING
JANUARY 6, 1987

PRESENT: M. Allen C. Wentworth F. Kelley
L. Watson M. Mogavero J. Hopkins
A. Sylor B. Hanson
R. Hitchcock D. Roeske

- AGENDA
- 1) Approval of previous minutes of December 15, 1986
 - 2) Audit of Bills
 - 3) Bid opening - Tires & Tubes
 - 4) Solid Waste - Source Separation
 - 5) Bridge programs
 - 6) Mineral Rights - property on C.R. 16
 - 7) Soil Conservation Building on C.R. 48 as District #3 Shop
 - 8) Approval for three (3) resolutions concerning agreements between the County and the State

The meeting was called to order at 11:05 A.M.

The minutes of the December 15th, 1986, meeting were approved.

Audit of the bills was approved by Mr. Hitchcock; seconded by Mr. Wentworth. Carried

Sealed bids for tires and tubes were opened. The only bidder was Main Tire of Dansville, New York. A check for \$1,000 was submitted along with a Non-Collusive Bidding Certification. Award to be made on January 19, 1987.

Mr. Kelley requested permission from the committee to proceed with a draft of a local source-separation Law. It appears that New York State will not enact a law but will require local governments to do so. At this time there is no pressure from the State other than the increased cost of waste disposal. This Local Law could reduce the volume of solid waste disposed of by as much as 40%. There is also a potential for small business to be established. A law of this type could be used as a prerequisite for other counties that may wish to use our landfill. This law would affect walk-in users immediately and the private haulers within three years. The motion to proceed was made by Mr. Sylor; seconded by Mr. Wentworth. Carried.

Mr. Roeske reported on the reduced posting of the Reddy & Spur bridge in the Town of Amity. The Town of Alfred was offered the Pine Street Bridge for 1987. A brief description of bridge work for 1987 was also reviewed.

Mr. Hanson reported that lands sold by the County on C.R. 15 in the Town of Birdsall is being sold by the purchaser. These new buyers are interested in the mineral rights held by the County. Motion made by Mr. Mogavero to sell mineral rights for \$500.00 plus \$200.00 administrative costs for a total of \$700.00; seconded by Mr. Sylor. Carried If interested party accepts the price County Attorney could prepare the paper work.

Mr. Hanson discussed the possibility of using the old Soil Conservation Building as a shop for District #3. Mr. Watson stated that the building is being leased at the present time for material storage and nothing could be done at the present. Mr. Allen stated that the situation will be studied.

Mr. Hanson requested resolutions be prepared for the following agreements between the County and the State of New York.

McHenry Valley Road Bridge Replacement; P.I.N. 6751.26. The resolution would cover increased costs of preliminary engineering and right-of-way incidental work. Motion by Mr. Hitchcock; seconded by Mr. Sylor. Carried

COUNTY ATTORNEY PREPARE RESOLUTION.

South Main Street Bridge, Village of Wellsville; P.I.N. 6751.74. The resolution would cover preliminary engineering and right-of-way incidental work. Motion by Mr. Allen; seconded by Mr. Mogavero. Carried

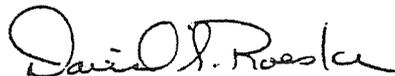
COUNTY ATTORNEY PREPARE RESOLUTION.

C.R. 12, Elm Valley Paving Project. Resolution for a new agreement, as first agreement was deficient in addressing all of the necessary items set forth by the State Division of Budget. Also, to remove Gary Robbins as the authorized representative to be replaced by William R. Hanson. Motion by Mr. Wentworth; seconded by Mr. Hitchcock. Carried

COUNTY ATTORNEY PREPARE RESOLUTION.

The meeting was ajourned at 1:00 P.M.

Respectfully submitted,



David S. Roeske
Deputy Superintendent I

J. Margison

PUBLIC WORKS COMMITTEE MEETING
FEBRUARY 2, 1987

FEB 3 1987

PRESENT: M. Allen B. Hanson
 M. Mogavero D. Roeske
 A. Sylor F. Kelley
 C. Wentworth L. Watson
 R. Hitchcock J. Hopkins (Reporter)

- AGENDA:
1. Approval of minutes of January 19, 1987
 2. Audit of bills
 3. Solid Waste
 - a. Letter to Towns
 - b. Laborer position request
 - c. Reviewed proposed resolution on tipping fee
 - d. Solid Waste Conference, April, Turf Inn, Albany
 4. Computer request
 5. Bid openings
 6. Letter from Lee Edwards
 7. C.R.-6 P.R. meeting with Cuba
 8. Right-of-way request from Hugh Wightman

The meeting was called to order at 9:00 A.M.

The minutes of January 19, meeting were approved by Mr. Sylor; seconded by Mr. Wentworth. Carried

Audit of bills was approved by Mr. Hitchcock; seconded by Mr. Mogavero. Carried

Mr. Kelley reviewed his draft letter that summarizes the development of the County Solid Waste System and explains the County's current position as to the use of the landfill by other counties. The committee felt it would be a good idea to send a letter of this type to all supervisors and mayors. Committee members recommended some minor changes and gave approval to send the letter out.

Mr. Kelley passed out a report that he had prepared to present to Ways and Means on Tuesday, February 3, that explains the status of the Landfill Capital Account and why additional funds are needed as soon as possible.

Mr. Kelley and Mr. Hanson discussed the need for a full-time laborer in the Solid Waste Division and requested a resolution creating the position in the Public Works Department. After a brief question answer session a motion to create the position was made by Mr. Mogavero; seconded by Mr. Wentworth. Carried

COUNTY ATTORNEY PREPARE RESOLUTION.

Mr. Kelley reviewed the proposed resolution increasing the tipping fee at the Cuba incinerator to \$20.00/ton as per the County Attorney's request.

At 10:00 A.M. bids were opened on: 1) a glulamated timber deck for a bridge on County Road 11 and 2) on articulating roller for the Highway Division.

The bids were as follows:

1) Timber deck

- | | |
|-----------------------|---------------|
| A) Laminated Concepts | - \$37,778.00 |
| B) Unadilla | - \$37,774.00 |

2) Roller

- | | |
|----------------|---------------|
| A) L.B. Smith | - \$65,556.00 |
| B) DOW | - \$56,725.00 |
| C) Nuttal | - \$56,669.00 |
| D) Rupp Rental | - \$56,643.00 |

Awards are planned to be made on February 17th, for the roller and on February 9th, for the deck.

Mr. Kelley informed members that a Solid Waste conference was going to be held at the Turf Inn in Albany on Wolf Road in April. Material pertaining to the conference would be put in committee members mail boxes.

Committee members were asked if there were any questions or concerns about the letter sent to all legislators from Lee Edwards of Edwards & Moncreiff, P.C., engineers for the landfill project. None were voiced.

Mr. Hanson made an appeal for a computer system for Public Works Department. The request is to be referred to the Central Services Committee as per a motion made by Mr. Mogavero; seconded by Mr. Saylor.

Mr. Hanson informed committee members that an informational meeting was going to be set up with the Cuba Town Board and affected property owners concerning the relocation of County Road 6. Committee members would be notified of the time and place.

Mr. Hanson discussed the need to remove the \$25,000 cap proposed for the new Town/County cost sharing plan for town bridge projects. Mr. Hitchcock made a motion to not have a cap but that the town's share should be 25% of construction cost; seconded by Mr. Saylor. Carried

Mr. Hanson told committee members that Hugh Wightman, adjoining property owner of the County's gravel pit in Almond wanted to have a right-of-way over the gravel pit road to gain access to the rear of his property. The request will be investigated.

The meeting was adjourned at 10:35 A.M.

Respectfully submitted,



William R. Hanson, Superintendent

WRH:bjh

Enc.

Mr. Kelley discussed with the Committee the letter of concern being circulated to towns by the Town of Belfast Board. Many variables must be explored and more data gathered before these concerns can be addressed. The Committee suggested relaying this to the towns and also sending a copy of the N.Y.S. Solid Waste Management Plan to all supervisors. It was also suggested that a tour of the Cuba incinerator be scheduled for the Committee. Mr. Kelley and Mr. Herdman will arrange the details.

A letter from Vern Patton of Patton's Busy Bee Disposal Service was discussed. Until Mr. Patton has a valid operating permit, no consideration shall be given to the use of his facility. The County Attorney should be consulted.

Mr. Roeske reported that the County had received an Order of Consent regarding reclamation work at the Sandpit in Almond. This work was to have been done a year ago. The D.E.C. has given the Department until June 15, 1987 to complete the bank restoration or be fined \$5,000. It was reported by Mr. Roeske that all work requested in the order will be done by June 15, 1987.

Mr. Roeske reported that the bridge widening on C.R. #21 in Andover and the temporary repairs on the bridge on the Vandermark have been completed.

Mr. Roeske reported that the C.R. #20 realignment should be out to bid some time in February. All the right-of-way acquisition work is in the County Attorney's office. The realignment of C.R. #6 project is progressing with the preliminary engineering work expected to be complete late this week. Looking for a possible April bid letting.

Mr. Hanson requested the resolution be prepared setting up a Capital Project account for the bridge replacement on C.R. #11 - McHenry Valley Road. There should be \$100,000 transferred from account #D9553.903 to a Capital Account. Moved by Mr. Saylor and seconded by Mr. Magavero, carried.

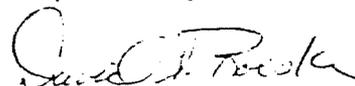
COUNTY ATTORNEY PREPARE RESOLUTION.

Mr. Hanson asked that anyone interested in touring Main Tire Inc. in Dansville let either himself or Mr. Roeske know along with possible dates.

Tire bids were awarded to Main Tire of Dansville providing the proper security be submitted. Moved by Mr. Saylor and seconded by Mr. Wentworth, carried.

Meeting adjourned at 11:00 a.m.

Respectfully submitted,



David S. Roeske
Deputy Superintendent I

MORANDUM OF EXPLANATION

INTRO. No. _____
(Clerk's Use Only)

COMMITTEE: PUBLIC WORKS

DATE: _____

Requesting a resolution be prepared setting up a Capital Account for the reconstruction of Bridge No. 4-13 B.I.N. 3329870 located on County Route 11 - McHenry Valley Road in the Town of Almond. It is requested that \$100,000 be transferred from account #D9553.903 to a Capital Account.

jlh

CAL IMPACT:

J. Margison

NOT

PUBLIC WORKS COMMITTEE MEETING
FEBRUARY 17, 1987

APPROVED

FEB 18 1987

PRESENT: M. Allen L. Watson J. Dickenson
 R. Hitchcock W. Hanson J. Fleming
 C. Wentworth D. Roeske W. Cronk
 L. Frair F. Kelley T. Patton
 A. Sylor J. Hopkins J. Banaszak
 M. Mogavero J. Baker

- AGENDA: 1) Approval of minutes of February 2, 1987
 2) Audit
 3) Bid openings:
 a) Glu-laminated Bridge Decks
 b) Pavement Markings
 c) Herbicide
 4) Bid Awards:
 a) Roller
 b) Glu-laminated Bridge Deck
 5) Solid Waste - Source Separation Law
 6) Town Superintendents Bridge Committee
 7) Patton's Engineer
 8) Information meeting on C.R.#6; March 3

The meeting was called to order by Chairman Allen at 11:00 A.M.

Approval of the minutes of the February 2, 1987 meeting motion by Mr. Sylor; seconded by Mr. Hitchcock. Carried

Motion to approve the audit of the bills made by Mr. Hitchcock; seconded by Mr. Wentworth. Carried

Bids were opened and read aloud by Chairman Allen for the following items:

- a) Two (2) Glu-laminated Pressure Treated Bridge Decks.

Bidders:

Lamcon, Inc.	\$44,924
Decker, Inc.	\$72,389
Associated Componets	\$49,981

b) Pavement Markings:

Chemi-trol Chemical Company
Centerline: \$185/centerline mile
Edgeline: \$137/edgeline mile

c) Vegetation Control:

Chemi-trol Chemical Company

The bid award for one (1) 1986 or 1987 New Articulated Double Drum Roller was awarded to Rupp Rental Company for a low bid of \$56,643.

The bid award for one (1) Glu-laminated Pressure Treated Bridge Deck for County Road 11 was awarded to Laminated Concepts, Inc. for a bid price of \$37,778.

Mr. James Fleming and Mr. William Cronk representing the Town Highway Superintendent's Association discussed their concerns regarding the County/Town Bridge Program. Sheets were passed out to the committee outlining these concerns. (See attached.) A meeting between Mr. Hanson and the Association's Bridge Committee will be scheduled for one day next week. The Public Works Committee decided to investigate the possibility of the County take over of town bridges.

Tim Patton representing Pattons Landfill and John Banaszak, P.E. of JEB Consultants asked if the County could write a letter to DEC requesting the reopening of Patton's Landfill. Mr. Kelley explained that legally the County could not use its influence to persuade the NYS DEC to issue a permit or extend the consent order. The County is obligated to follow the recommendations of the regulatory agency involved. The County was forced to use a landfill which was legally permitted.

Mr. Kelley reported that a meeting in Little Valley, Cattaraugus County will be held this Thursday, February 19, 1987 at 7:00 P.M. An overview of the Cuba Incinerator operation and finances will be discussed. Several committee members plan to attend this meeting.

Mr. Kelley reported on the DEC inspection of the transfer system. This inspection was done prior to re-permitting of the operation. The inspections were favorable and the permit is forthcoming. (See attached reports.)

Mr. Kelley passed out draft copies of the proposed waste separation law. He requested that the committee review this draft and make comments. (See attached.)

Mr. Hanson would like to set up a tour of the Cuba Incinerator. The committee asked Mr. Kelley to arrange a tour on March 2, 1987 following the committee meeting.

It was suggested by Mr. Mogavero that the time for committee meetings be changed from 9:00 A.M. to 8:30 A.M. There was no opposition to this proposal. Chairman Allen stated that as of March 2, 1987 the Public Works Committee Meetings would start at 8:30 A.M.

Mr. Hanson reported that the next meeting in Cuba concerning the proposed relocation of County Route 6 will be held March 3, 1987 at 7:30 P.M. in the Cuba Grange Hall.

Mr. Hanson requested a transfer of funds from account A 1620.404 to account A 1620.406 in the amount of \$100 moved by Mr. Hitchcock; seconded by Mr. Saylor. Carried

Mr. Hanson requested permission for the Superintendent, Deputy Superintendent I, and Junior Engineer to attend a seminar being held in Batavia April 16th and 17th. This seminar is being sponsored by Cornell University at a cost of \$15 per person. Moved by Mr. Mogavero; seconded by Mr. Wentworth. Carried

Mr. Watson reported on a meeting held in Alfred concerning problems with County Route 12. Various interested organizations and individuals attended. Questions regarding the plowing and sanding policies of the County were asked. State Police to increase patrols of this section of highway.

The meeting was adjourned at 1:10 P.M.

Respectfully submitted,



David S. Roeske
Deputy Superintendent I

DSR:bjh

Enc.

A meeting of the bridge committee of the Allegany County Town Supt. Assoc. was held on Friday Feb. 13, 1987.

The Committee recommends the following:

1. The bridge program should be left as is with a 15% or \$15,000 cap.
2. The towns should be allowed to do as much of the work as possible. The committee feels that this would help keep the total cost down.
3. The committee feels that the county should not charge equipment rental to the towns due to the fact that the town taxpayers are also county taxpayers and should not have to pay twice for the same equipment.
4. The committee feels that the towns should have between 3 and 5 years to pay the county for bridge construction. (3yrs.=15%
5yrs.=20%)
5. The bridge committee would like to meet with the county DPW to help draft a resolution that would be acceptable and fair to the county and the towns.
6. The towns that are scheduled for bridge replacement in 1987 prepared their budgets in the fall of 1986 based on the 15% with a \$15,000 cap program. It would be unfair and also create an undue hardship to expect these towns to now pay 25% of the cost. Any change in the bridge program should not take place until the 1988 season to allow the towns to properly budget the increase.
7. The towns and the county both lost Federal Revenue Sharing funds. The county added a 1% sales tax which is expected to generate an additional 1.3 million dollars of county revenue. The county Revenue Sharing loss was about \$670,000. The county has more than made up for their Revenue Sharing loss. The towns lost their Federal Revenue Sharing funds and have no way except property taxes to recover their losses.

8. Mr. Hanson has stated that the increases were considered because lawmakers felt some towns were not providing proper maintenance for their bridges. "We felt if the towns paid more they would take better care of the bridges." (Olean Times Herald 2/3/87)
On 10/9/86, the Times Herald stated that "county officials have said that in addition to relieving the county from of the fiscal burdens of bridge work, the new formula would encourage town officials to be more conscientious about caring for their bridges." These statements seem to imply that the county is more concerned with punishing the towns for lack of proper bridge maintenance than it is with solving the real bridge problem. The towns do not have the labor, or equipment to do proper bridge maintenance. We need more help and cooperation, not punishment.
9. The bridge problem is only one area of concern to the Highway Supt. Assoc. The towns and the county both need to improve communications and relationships. The Supt. Assoc. changed the day of their meeting from Monday to Tuesday in an attempt to accommodate the legislature. We still receive little response from our lawmakers. Those that do attend usually "eat and run."
10. The Supt. Assoc would like to extend an open invitation to all of our county representatives to attend our association meetings. We would also like to be in attendance at the committee meetings of the DPW committee as observers and perhaps give our coments and have some input.
11. As an alternate proposal, the Supt. Assoc. would possible agree to a 20% with a \$20,000 cap on the bridge program for 1988.

James Fleming	TOWN OF ANGELICA	William Cronk	TOWN OF AMITY
James Hennessy	TOWN OF WELLSVILLE	William Nichols	TOWN OF BELFAST

BRIDGE MATERIAL COST

MATERIAL	1981	1982	1983	1984	1985	1986	UNIT
"I" beams	\$29.55	\$31.48	\$32.48	\$29.64	\$29.44	\$27.78	CWT
sheet piling	\$37.95	\$41.44	\$42.44	\$38.94	\$34.24	\$32.14	CWT
channel iron	\$32.50	\$34.78	\$34.50	\$32.34	\$28.75	\$27.34	CWT
angle iron	\$29.00	\$32.18	\$33.50	\$30.92	\$28.50	\$27.34	CWT
bridge flooring							
galvanized 12ga.	\$5.45	\$5.74	\$5.74	\$5.74	\$5.74	\$3.58	sq./ft
aluminized	no bid	no bid	no bid	\$5.58	\$5.46	\$5.46	sq./ft
guiderail	\$2.64	\$2.77	\$2.55	\$2.66	\$2.67	\$2.73	ft.
heavy posts	\$19.37	\$20.69	\$20.24	\$18.94	\$18.84	\$18.73	ea.
block-outs	\$5.30	\$5.46	\$5.40	\$5.24	\$5.24	\$5.18	ea.

In 1981, the County was still building bridges on Town Highway systems under the Donovan Program. Upon completion of a Town bridge under this program, the Town would pay to the County the sum of fourteen-thousand, four-hundred dollars (\$14,400). This was the amount paid to the Town by the State of New York for the Donovan project. The County accepted this as the Town's share of the cost of bridge replacement.

The materials listed above are the materials used by the County in bridge replacement. The treated timber decks now used by the County are bid on an individual basis. As you can see from the figures above, the material costs peaked in 1982 and 1983. From 1984 thru 1986, there has been a steady downward trend in the cost of materials. In fact, all materials listed above (with the exception of guiderail) were lower in cost in 1986 than they were in 1981. These figures were taken from the County bid sheets.

NOT APPROVED

STATEMENT OF PURPOSES

SECTION ONE

The purpose of this local law shall be to protect and promote the health, safety and welfare of the people of Allegany County by regulating the storage, collection and disposal of solid waste and by creating a County wide Solid Waste Transfer and Disposal System.

Nothing herein contained shall be construed to abridge the emergency powers of the Board of Health of the Department of Health or the right of the Department of Health to engage in any of its necessary or proper activities.

SOLID WASTE SYSTEM LAW

SECTION TWO

Definitions:

"SOLID WASTE" shall mean plastic containers, rags, sweepings, excelsior, rubber, leather, clothing, straw, dirt, filthy ashes, waste paper, similiar waste material, and general household waste.

"RECYCLABLE WASTE" shall mean clean metal food containers and cans, glass food containers and bottles with metal rings removed.

"CONSTRUCTION DEBRIS" Three (3) cubic yards or greater, quantities of non-burnable items such as bricks or concrete, trees, larger than would pass through a twenty-four (24) inch opening or longer than thirty-six (36)

SECTION TWO (Con't)

inches, pipe, plaster, fire, insulation, rubble, discarded building materials, and all other refuse matter resulting from the erecting, repair or demolition of buildings or structures.

"NON-BURNABLE" shall mean any item generally the size of, or larger than a thirteen (13) inch automobile wheel rim, an engine from a rotary lawn mower, large appliances, such as stoves, refrigerators, washers, dryers, dishwashers, bathtubs, sinks, toilets, furniture, cabinets, large boxes, tires, larger than a ten (10) inch wheel size, or other household furnishings.

"OTHER WASTE" shall mean propane cylinders, or other volatile pressurized containers, explosive items, toxic chemicals, radio active materials, hot ashes, manure, septic tank pumpings, waste or sludge from sewage treatment plants, waste generated by industrial, commercial or institutional facilities which is of significantly different character than household waste, quantities of waste oil, waste of unidentified nature in liquid or solid form, animal carcasses.

"PERSON" shall mean any individual, group of individuals, partnership, firm, corporation, association, state, county, city, town, village or improvement district.

"COLLECTOR" shall mean any person engaged in collecting waste for hire or as part of usual industrial operation.

"OPERATOR" shall mean any person who is responsible for the operation of a solid waste management facility.

"PERSONNEL" shall mean all persons who work at, oversee the operations of, a solid waste management facility.

SECTION TWO (Con't)

"TRANSFER STATION" shall mean a combination of structures, machinery or devices at a place or facility where solid waste is taken from collection vehicles and placed in other transportation units for movement to another solid waste management facility.

"COUNTY" shall mean the County of Allegany.

"COMMITTEE" shall mean the Public Works Committee of the Legislature.

"DEPARTMENT" shall mean the Allegany County Department of Public Works.

"LEGISLATURE" shall mean the Allegany County Legislature.

SECTION 3 SOLID WASTE DISPOSAL AREAS

The Solid Waste Transfer Stations and Solid Waste Landfill Site presently owned or under contract by Allegany County, following the enactment of this local law to be established by the Legislature, are hereby designated as the Solid Waste Disposal Sites to be used by all persons within the County. The Sites established or licensed pursuant hereto shall be for the exclusive use of the residents of the County. Any person who shall transport solid waste from outside the County and drop or discharge the same upon any of the aforementioned sites shall be subject to the penalties imposed for the violation of this local law.

SECTION 4 POWERS OF THE COMMITTEE

The Committee shall, subject to the approval of the Legislature;

a. Formulate, adopt, promulgate, amend, and repeal rules and regulations, in furtherance of this local law, for controlling the storage, collection, and disposal of solid waste in Allegany County.

b. Control the storage, collection and disposal of solid waste in accordance with the provisions of this local law and of the rules and regulations promulgated pursuant thereto.

c. Hold hearings, subpoena and compel the attendance of witnesses and the production for examination of any book, paper or item relating to the matter under investigation. For this purpose the Committee may designate one of its members to hold hearings and issue subpoenas.

d. Make findings of fact and determination.

e. Make, modify or cancel orders affecting the control of the storage, collection or the disposal of solid waste.

SECTION 4 (Con't)

f. Request the County Attorney to institute civil actions, proceedings or hearings to compel compliance with the orders of the Committee and with the provisions of this local law and the rules and regulations promulgated pursuant thereto.

g. Prepare and issue criminal information or otherwise institute criminal proceedings against persons found to be in violation of the provisions of this local law.

h. Take such other action as it may deem necessary, proper or desirable to enforce the provisions of this local law or any of the rules and regulations promulgated pursuant thereto.

i. Review and give permits to persons disposing of solid waste in other than County disposal areas.

SECTION 5 HEARINGS

All hearings held pursuant hereto shall be upon not less than ten days notice to the person involved and shall be held at a time and location specified by the Committee.

SECTION 6 DUMPING OF SOLID WASTE

It shall be unlawful for any person to dump, throw, deposite, or place or cause to be thrown, dumped, deposited or placed or allowed to be thrown, dumped, deposited or placed at any location within Allegany County any solid waste or any nauseous or offensive material, except upon those solid waste disposal areas established by the Legislature.

SECTION 7 SOLID WASTE DISPOSAL AREA OPERATION

a. No person shall operate a solid waste disposal area after the first day of January 1, 1988, until an application has been filed with the Committee and a permit has been issued by the Committee in accordance with this local law and with the rules and regulations promulgated thereunder. Before issuing such a permit the Committee may require such plans, reports, specifications and other data as is necessary for it to determine whether the site is suitable for such operation and the proposed method of operation is feasible.

b. Application for a Permit to Operate a Solid Waste Disposal Area.

Any person who desires to operate or maintain a Solid Waste Disposal Area shall make application to the Committee on application forms provided by the Committee.

c. Operation and Maintenance.

Any person who operates or maintains a Solid Waste Disposal Area or permits the use of his land as a Solid Waste Disposal Area shall cause the operator to maintain and operate such area in compliance with New York State Department of Environmental Conservation and pursuant to Section 17 of the Environmental Conservation Law.

SECTION 8 THE CLOSURE OF UNSATISFACTORY SOLID WASTE DISPOSAL AREAS

If any person operates or maintains a Solid Waste Disposal Area or allows the operation or maintenance of a Solid Waste Disposal Area on his property which, after a hearing is deemed unsatisfactory by the Committee, the Committee may order that such Solid Waste Disposal Area be closed and abandoned. The Committee shall reserve the right to order the operator of

SECTION 8 (Con't)

the Solid Waste Disposal Area or the property owner to bear the cost of the closing or the upgrading of the Solid Waste Disposal Area. The closure of all unsatisfactory Solid Waste Disposal Areas shall be done in accordance with specifications developed by the Committee.

SECTION 9 COLLECTION OF SOLID WASTE

a. Any person, except for an individual who collects solid waste generated by himself or his immediate family, who collects garbage, rubbish, dead animals, sewage treatment wastes or putrescible industrial wastes after January 1, 1988, must possess a valid permit issued by the Committee.

b. Any person, who wishes to collect garbage, rubbish, dead animals, sewage treatment wastes or putrescible industrial wastes must make application to the Committee for a Permit on application forms to be provided by the Committee.

c. If after a hearing the Committee deems that the collector operates in a manner not in compliance with the provisions hereof or in a manner not in compliance with the provisions hereof or in a manner such as to cause a nuisance or hazzard to the public, the Committee may suspend or revoke the collector's Permit.

d. The collector must operate in compliance with the following requirements:

1. The owners and operators of all vehicles used for the collection of garbage, rubbish, dead animals, sewage treatment wastes and putrescible industrial wastes shall:

a. Ensure that there is no spillage of liquid from the vehicle.

b. Ensure that there is no spillage or blowing of solid from the vehicle.

SECTION 9 COLLECTION OF SOLID WASTE (Con't)

c. Maintain the vehicle and keep it clean.

d. Affix the name of the owner or business on both sides of the vehicle in letters not less than four inches high of a color contrasting with the background.

e. Ensure that the vehicle is capable of discharging contents from a stationary position.

2. Collector shall handle solid waste containers in a manner so that no solid waste is spilled during the transfer from the container to the collection vehicle and so that the container is not damaged during such handling or as a result of such handling. Damage to containers not meeting the specifications set forth herein shall not be covered by this section.

3. The collector shall dispose of the solid waste:

a. After January 1, 1988, only at a refuse disposal area established by the Legislature or operating under a permit issued by the Committee.

b. In accordance with the rules and regulations posted at the said Solid Waste Disposal Area.

SECTION 10 CONTAINERS

1. Storage of all garbage, dead animals, sewage treatment wastes and putrescible industrial wastes shall be in containers which completely confine the material.

2. The structure of the containers to confine the aforementioned refuse shall be such that they:

a. Prevent the exit and entrance of insects, rodents, or other animals.

b. Can be easily cleaned.

SECTION 10 CONTAINERS (Con't)

- c. Will not crack when subject to cold temperatures.
- d. Will not break or burst when lifted.
- e. Are easily unloaded.
- f. Shall be of sufficient integrity to confine such wastes for a time determined by the Committee.

SECTION 11 SUSPENSION OR REVOCATION OF PERMIT

1. The Committee may suspend or revoke a permit for violation of the provisions of this local law or of the rules and regulations promulgated hereunder.

2. Suspension or revocation of a permit shall become final five days after service of a notice thereof upon the holder of the permit.

3. The holder of the Permit or other aggrieved party affected by such suspension or revocation may request a hearing by the total membership of the Committee to reconsider its action by serving upon any member of the Committee designated for that purpose a request for reconsideration within five days following the service of the notice of suspension or revocation, which shall set forth the reasons for such request.

4. Unless the Committee orders that the Permit be suspended or revoked during the pendency of the reconsideration, such suspension or revocation shall be stayed by effective service of such notice of reconsideration until final determination by the Committee.

SECTION 12 SURRENDER OF PERMIT

A permit which has been revoked or suspended shall be surrendered forthwith to the Committee.

SECTION 13 SERVICE OF NOTICE, ORDER OF DECISION

1. Service of any notice, order of decision shall be made as follows:

- a. By mail a copy of such notice, order of decision in a post-paid envelope directed to the person affected thereby at his residence or business address, or
- b. By leaving a copy of such notice, order of decision with said person or his agent.

2. Service of any notice shall be made upon the Solid Waste Supervisor or Committee by mailing the notice in a postpaid envelope directed to the Solid Waste Supervisor, or Committee.

SECTION 14 SOURCE SEPARATION AND DISPOSAL AT TRANSFER STATIONS

1. Any person who may dispose of solid waste shall dispose of this solid waste in accordance with this local law and with the rules and regulations promulgated thereunder.

a. Non-burnable items shall be separated from solid waste prior to disposal at the Solid Waste Transfer Stations.

b. Other waste shall be separated from solid waste prior to its disposal. This other waste will not be allowed for disposal at the Transfer Stations, unless permitted by the Committee.

c. Construction debris shall be separated from solid waste prior to its disposal. This waste will not be allowed for disposal at the Transfer Stations in quantities of 3 cubic yards or more. Quantities of 3 cubic yards or more will be disposed of at the County Landfill, or at permitted construction and demolition landfills.

d. Each person shall provide separate galvanized iron cans or other suitable sanitary containers for garbage and nonrecyclable rubbish only;

SECTION 14 (d) Con't

and for recyclable rubbish only.

e. When not placed in a suitable container as provided above, non-recyclable waste paper, rags, leather, shavings, grass clippings, straw, scraps, clothing and any other refuse or matter shall be separated from other matter and securely tied in compact bundles or packages.

f. In order to facilitate the conservation of vital natural resources through recycling: Each person shall also provide separate galvanized iron cans or other sanitary containers for recyclable waste, other than discarded newspapers, magazines, cardboard and flat papers.

g. In order to further facilitate the conservation of vital natural resources through recycling: Discarded newspapers, magazines, cardboard and flat papers shall be securely tied in bundles each weighing not in excess of forty (40) pounds.

h. In order to further facilitate the conservation of vital natural resources through recycling: Discarded glass containers and bottles with metal rings removed shall be separated from other recyclable waste for separate disposal.

i. In order to further facilitate the conservation of vital natural resources through recycling: Discarded clean metal food containers shall be separated from other recyclable waste for separate disposal.

SECTION 15 PENALTIES

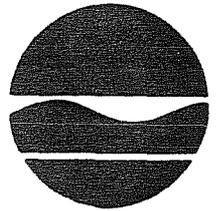
1. Any person who shall violate, or fails to perform any duty imposed by:

- a. the provisions of this local law, or
- b. the rules and regulations promulgated thereunder, or
- c. any order made or decision rendered by the Committee pursuant to this local law or the rules and regulations promulgated thereunder, shall be guilty of an offense, and upon conviction thereof shall be punished by a fine not to exceed one hundred fifty (\$150.00) dollars or by imprisonment for not more than thirty (30) days, or both such fine and imprisonment. Each day of violation shall constitute a separate offense.

2. The provision of subsection (1) hereof shall not be construed to exempt such person from any other action, prosecution or penalty provided by this local law or by any other applicable law or ordinance.

New York State Department of Environmental Conservation

600 Delaware Avenue, Buffalo, NY 14202-1073



Henry G. Williams
Commissioner

February 5, 1987

Mr. Fred Kelley
Allegany County DPW
County Building
Belmont, NY 14813

Dear Mr. Kelley:

Burns Transfer Station, #02T02

On January 3, 1987, this writer inspected the above subject facility to determine compliance with Part 360 for renewal of the permit to operate.

Overall, the facility was in satisfactory condition. However, the following items need your attention:

1. Salvage Metal - The salvage metal area is excessive and should be removed.
2. Litter - The fine litter around the compactor on the lower level should be swept up as soon as possible.

It is expected that the next inspection will find improved conditions at the facility. Your permit to operate will be forthcoming.

Thank you for your continued cooperation.

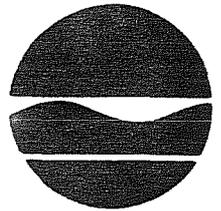
Very truly yours,

Kevin R. Hintz, P.E.
Senior Sanitary Engineer

KRH:jd

New York State Department of Environmental Conservation

600 Delaware Avenue, Buffalo, New York 14202-1073



Henry G. Williams
Commissioner

February 5, 1987

Mr. Fred Kelley
Allegany County DPW
County Building
Belmont, New York 14813

Dear Mr. Kelley:

Caneadea Transfer Station #02T01

On January 3, 1987, this writer inspected the above subject facility to determine compliance with Part 360 for renewal of the Permit to Operate.

Overall, the facility was in satisfactory condition. However, the salvage metal area is excessive and must be reduced.

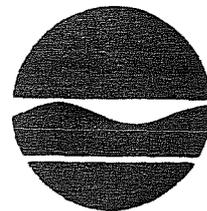
It is expected that the next inspection will find improved conditions. Your Permit to Operate will be forthcoming.

Thank you for your continued cooperation.

Very truly yours,

Kevin R. Hintz, P.E.
Senior Sanitary Engineer

KRH:vam



Henry G. Williams
Commissioner

February 5, 1987

Mr. Fred Kelley
Allegany County DPW
County Building
Belmont, NY 14813

Dear Mr. Kelley:

Bolvar Transfer Station, #02T06

On February 4, 1987, this writer inspected your transfer station to determine compliance with Part 360 for renewal of your permit to operate.

Overall, the facility was in good shape but the following items need your attention:

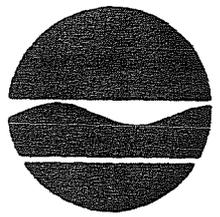
1. Salvage Metal - The salvage metal area is excessive and must be reduced.
2. Litter - Waste caught between the retaining and open top box should be cleaned up.

I trust the next inspection of the facility will find improved conditions. Your permit to operate will be forthcoming.

Very truly yours,

Kevin R. Hintz, P.E.
Senior Sanitary Engineer

KRH:jd



Henry G. Williams
Commissioner

February 5, 1987

Mr. Fred Kelley
Allegany County DPW
County Building
Belmont, New York 14813

Dear Mr. Kelley:

Alfred Transfer Station #02T05

On January 3, 1987, this writer inspected the above subject facility to determine compliance with Part 360 for renewal of the Permit to Operate.

Overall, the facility was in satisfactory condition. However, the following items need attention:

1. Barrels - The barrels on the lower level behind the building should be removed.
2. Salvage Metal - The salvage metal area is excessive. The volume should be reduced.
3. Litter - The fine litter and dirt around the compactor on the lower area should be swept up as soon as weather permits.

It is expected that the next inspection will find improved conditions at the facility. Your permit to operate will be forth coming. Thank you for your continued cooperation.

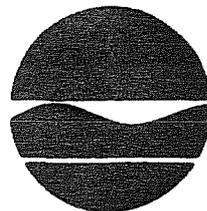
Very truly yours,

Kevin R. Hintz, P.E.
Senior Sanitary Engineer

KRH:vam

New York State Department of Environmental Conservation

600 Delaware Avenue, Buffalo, NY 14202-1073



Henry G. Williams
Commissioner

February 5, 1987

Mr. Fred Kelley
Allegany County DPW
County Building
Belmont, NY 14813

Dear Mr. Kelley:

Wellsville Transfer Station #02T07

On January 3, 1987, this writer inspected the above subject facility to determine compliance with Part 360 for renewal of the Permit to Operate.

Overall, the facility was in good shape. However, the following items need attention:

1. Salvage metal - The salvage metal area is excessive. It must be reduced.
2. Litter - The litter on the lower level around the compactor must be swept up, weather permitting.

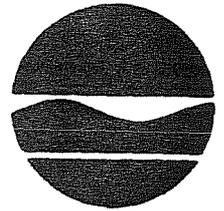
It is expected that the next inspection of the facility will find conditions to be even better. Your Permit to Operate will be forthcoming.

Thank you for your continued cooperation.

Very truly yours,

Kevin R. Hintz
Senior Sanitary Engineer

KRH:jd



Henry G. Williams
Commissioner

February 5, 1987

Fred Kelley
Allegany County DPW
County Bldg.
Belmont, New York

Dear Mr. Kelley:

Angelica Transfer Station
#02T04

On January 3, 1987, this writer inspected the above subject facility to determine compliance with Part 360 for renewal of your permit to operate.

Overall, the facility was in good shape. However, the following items need your attention:

- 1) Salvage Metal - The salvage metal area is becoming excessive. Some metal should be removed soon.
- 2) Litter - Need to sweep up the litter on the lower pad around the compactor as soon as weather permits.

I trust the next inspection will find the conditions to be improved. Your permit to operate will be forthcoming.

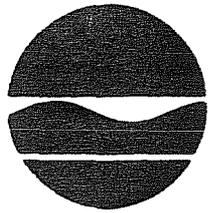
Thank you for your continued cooperation.

Very truly yours,

Kevin R. Hintz, P.E.
Senior Sanitary Engineer

KRH:jps

New York State Department of Environmental Conservation
600 Delaware Avenue, Buffalo, NY 14202-1073



Henry G. Williams
Commissioner

February 5, 1987

Mr. Fred Kelley
Allegany DPW
County Building
Belmont, NY 14813

Dear Mr. Kelley:

Cuba-Friendship Transfer Station
02T03

On January 30, 1987, this writer inspected the above subject facility to determine compliance with Part 360 for renewal of the permit to operate.

Overall the facility was in good shape. However, the following items need your attention:

1. Any barrels not being used for the recycling operation should be removed.
2. The salvage metal pile shall be reduced.
3. The pile of wood squares should be removed.
4. The two barrels of litter on the lower apron should be removed.
5. Clean up the spill of insecticide or deodorizer just inside the building.
6. The salvaged materials inside the building should be removed.

Keep up the good work. Thank you for your continued cooperation.

Very truly yours,

Kevin R. Hintz, P.E.
Senior Sanitary Engineer

KRH:jd

MAR 4 1987

J. Margison

PUBLIC WORKS COMMITTEE MEETING
March 2, 1987

NOT
APPROVED

Present: M. Allen B. Hitchcock F. Kelley
 M. Mogavero L. Watson J. Dickenson
 C. Wentworth B. Hanson J. Hopkins
 A. Saylor D. Roeske

- Agenda: 1) Approval of minutes of meeting of 2/17/87
 2) Audit
 3) Solid Waste
 a) Cattaraugus County financial report
 b) Enercan paper (see copy)
 c) NYSERDA Grant
 4) Bid awards
 a) Bridge decks
 b) Herbicide
 5) Open bids
 a) Dozer
 b) Bridge deck
 6) 85%/15% Town/County Bridge Program
 7) Status of C.R.-6 after re-alignment
 8) Executive Session (Attorney-Client matter)
 9) Tour of Cuba incinerator

The meeting was called to order at 8:30 A.M.

Approval of the minutes of the February 17, 1987 meeting motion by Mr. Mogavero; seconded by Mr. Saylor. Carried

Mr. Kelley presented the committee with copies of the financial statement for 1986 of the Cuba incinerator. Also, a report by Enercan Energy Services on the future of the incinerator. Mr. Kelley reported that the NYSERDA grant he is involved with is near completion. Questions on budgeting and public awareness still need to be addressed. Mr. Kelley requested \$600. to be used in a State Wide Informational Fund to promote public awareness. Motion by Mr. Mogavero; seconded by Mr. Wentworth. Carried

Awards were made on the following items opened at the February 17th meeting:

Two Bridge Decks: Pond Road - Town of Hume
 Feathers Creek Road - Town of Amity

These were awarded to Lamcon, Inc. for a low bid of \$44,924 (see attached sheet).

The bid for Vegetation Control was awarded to the sole bidder. Chemi-trol Chemical Company for a bid of \$8934.00, which is for the entire County Road System.

Mr. Hanson questioned Resolution No. 33-87 dealing with the increased tipping fee at the incinerator. The resolution states a new contract must be in place by December 31, 1987. He asked the feelings of the committee as to starting the negotiations with Cattaraugus County as soon as possible. Mr. Hanson, Mr. Allen, Mr. Saylor and Mr. Kelley are to meet with their counterparts from Cattaraugus County to lay the ground work for the new contract.

Mr. Hanson requested a resolution be prepared to transfer \$2880 from Account A 1620.4 to Account A 1620.2 to purchase two new floor buffers. Motion by Mr. Saylor; seconded by Mr. Mogavero. Carried

COUNTY ATTORNEY PREPARE RESOLUTION

Mr. Hanson reported that the informational meeting on C.R.-6 relocation is scheduled for March 3, 1987 at 7:30 P.M. in the Cuba Grange Hall.

The status of present C.R.-6 from State Route 305 to the Cuba Cheese plant and from the Cuba Cheese Plant Southwest to the proposed relocation was discussed. Mr. Hanson's proposal is to turn the portion from State Route 305 to the Cuba Cheese plant back to the Town of Cuba and the section from Cuba Cheese Plant Southwest to the new alignment back to Cuba Cheese for maintenance.

Opened bids on one (1) glu-laminated, pressure treated bridge deck. One Bidder: Lamcon, Inc. - total bid of \$25,450.00

Opened bids on (1) one Crawler Tractor.

Syracuse Supply Company	\$39,688.00	CAT D3B
S.C. Hanson, Inc.	\$37,120.00	CASE 450C
Mecca Kendall Corporation	\$31,630.00	JD 450E
Rupp Rental Corporation	\$30,542.00	D31E-17
Dow Equipment, Inc.	\$34,936.00	1987 TD7E
Dow Equipment, Inc.	\$32,018.00	1987 TD7E
Nuttall Equipment Co.	\$38,144	FD-5

Award to be made at the March 16th meeting.

Mr. Hanson reported on the meeting with the Town Highway Superintendent's Bridge Committee. The bridge committee expressed its desire for the Town/County Bridge Cost Sharing Program to remain as it is 15% Town share, 85% County share, and to proceed with a study of County take over of town bridges. A motion was made by Mr. Mogavero; seconded by Mr. Wentworth that the Superintendent of Public Works proceed with the present 15/85 program with the bridges in the towns of Hume and Amity. Carried

The meeting was adjourned at 10:10 A.M. to go into Executive Session.

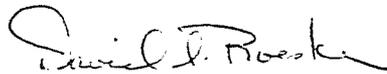
Meeting was called back to order at 10:40 A.M.

Mr. Hanson requested a transfer of funds in the amount of 1,200 from Account number A 1620.438 to Account number A 1620.440 moved by Mr. Saylor; seconded by Mr. Wentworth. Carried

Audit of the bills were approved moved by Mr. Wentworth; seconded by Mr. Hitchcock. Carried

The meeting was adjourned at 11:15 A.M.

Respectfully submitted,



David S. Roeske
Deputy Superintendent I

DSR:bjh

Enc.

MEMORANDUM OF EXPLANATION

INTRO. No. _____
(Clerk's Use Only)

COMMITTEE: PUBLIC WORKS

DATE: _____

A resolution is needed to transfer \$2880 from A 1620.408 to A 1620.202 to pay for two new high speed buffers. Going to a high-speed buffing program will reduce the products needed for floor care which will produce a cost savings plus less time will be needed to do the floors.

A trade-in value on a floor conditioning machine of \$750 will be applied toward general supply purchases, probably paper products.

WRH:bjh
3/4/87

FISCAL IMPACT:



ALLEGANY COUNTY DEPARTMENT OF
PUBLIC WORKS

GARY J. ROBBINS
Superintendent

WILLIAM R. HANSON
Deputy Superintendent

ROOM 210 COUNTY OFFICE BUILDING BELMONT, NEW YORK 14813
TELEPHONE 716 268-9230

BID RESULTS-FEBRUARY 17, 1987
GLULAMINATED BRIDGE MATERIAL
POND ROAD AND FEATHER'S CREEK

	<u>Pond Road</u>	<u>Feathers Creek</u>	<u>Total</u>
DECKER:	\$52,769	\$19,620	= \$72,389
ASSOCIATED COMPONENTS:	\$34,361	\$15,620	= \$49,981
LAMCON:	\$31,465	\$13,459	= \$44,924

DNH:DSR:bjh

2/25/87



ALLEGANY COUNTY DEPARTMENT OF
PUBLIC WORKS

GARY J. ROBBINS
Superintendent

WILLIAM R. HANSON
Deputy Superintendent

ROOM 210 COUNTY OFFICE BUILDING BELMONT, NEW YORK 14813
TELEPHONE 716 268-9230

PROPOSED COUNTY/TOWN BRIDGE
COST SHARING PROGRAM FOR 1987

HUME	Pond Road	BR#	145,000	123,250	21,750
AMITY	Feathers Creek	BR#	40,000	34,000	6,000
ALFRED?	Pine Street	BR#	<u>75,000</u>	<u>63,750</u>	<u>11,250</u>
			260,000	221,000	39,000

TOTAL NEEDED FOR COUNTY SHARE = \$221,000

TOTAL AMOUNT BUDGETED FOR 1987= \$202,200

AMOUNT REQUIRED FOR BUDGET = \$ 18,800

DSR:bjh
2/27/87

CATTARAUGUS COUNTY ENERGY FACILITY
1986 - ACCRUAL BASIS

Operating & Maintenance	\$978,997
Consultants	70,000
Depreciation	401,675
Interest on Pre '85 Loss	17,940
Interest on Bond Debt - 1983	198,100
Interest on Budget note - 1986	<u>1,161</u>
Expense for 1986	\$1,667,873
Steam Sales	\$454,301
Refuse Charges - Other Gov't.	264,010
Refuse Charges - Misc.	5,795
Tipping Fees - Cattaraugus	375,545
Refund of Prior Years Expenditure	16,363
Interfund Transfer	<u>406,100</u>
Revenue for 1986	\$1,522,114
Net Loss for 1986	\$145,759

2

← Page 3

Net Income of Energy Operations	\$182,000	See Exhibit 3
Plus additional Expenses (1,667,873 - 850,908)	< 817,000 >	1
Less Additional Income (1,522,114 - 1,032,954)	489,000	2
Net Loss of Catt. County Energy Facility	< <u>116,000</u> >	

1	Consultants	\$ 70,000
	Depreciation	400,000
	Interest	217,000
	Incentive & Retubing Expenses	<u>130,000</u>
		<u>\$817,000</u>
2	Interfund-Transfer	\$400,000
	Cattaraugus County Tipping Fee	73,000
	Refund of Prior Years Expense	<u>16,000</u>
		\$489,000

\$817,000

Cattaraugus County Energy Facility
1986 - Cash Basis

Operating and Maintenance	\$973,997
Consultants Fee	70,000
Principal and Interest on Pre '85 Loss	31,969
Principal and Interest on Bond Debt - 1983	373,100
Interest on Budget Note - 1986	1,161
Capital Additions - Equipment	<u>305,271</u>

Expense for 1986 \$1,810,498

Steam Sales	\$454,301
Refuse Charges - Other Gov't (Allegany Co.)	264,010
Refuse Charges - Misc.	5,795
Tipping Fee - Cattaraugus County	375,545
Refund of Prior Years Expenditure	16,363
Interfund Transfer	<u>406,100</u>

Revenue for 1986 \$1,522,114

Sub-total (Rev. - Exp.) < 288,384 >

Unbilled Accts. Receivables at 12/31/85	62,871
Accts. Payable @ 12/31/85	< 15,437 >
Accrued Liabilities @ 12/31/85	< 46,716 >
Due to Other Funds (incl. \$624,420 Cash Deficit @ 12/31/85)	< 689,386 >
Budget Notes Payable @ 12/31/86	425,000
Accounts Receivable @ 12/31/86	< 131,615 >
Accounts Payable @ 12/31/86	46,048
Accrued Liabilities @ 12/31/86	46,144
Encumbrances @ 12/31/86	<u>33,600</u>
Cash Deficit @ 12/31/86	< 557,875 >
1985 Deficit Borrowing (Contingent)	<u>785,000</u>
Cash Surplus	\$227,125

Energy Facility

Cost/Ton Fiscal Year 1986	121486 = 12-31-86	
Tons: January - December		39,635
Operating and Maintenance	6978,987	
Consultants	70,000	
Depreciation Exp.	401,675	
Interest on Pre '85 Loss	17,940	
Interest on Bond Debt - 1983	198,100	
Interest on Budget Note - 1986	<u>1,161</u>	
	\$1,667,873	(see page #1)
Income - Steam Sales	<u><454,301></u>	
	\$1,213,572	

\$1,213,572 = \$30.62/Ton
 39,635

1st Qtr.	\$25.03/Ton
2nd Qtr.	\$43.48/Ton
3rd Qtr.	\$26.32/Ton
4th Qtr.	\$32.54/Ton

Cattaraugus County Energy Facility
Cash Needed - Ton

Tons: 39,635 for the year 1986

Operating and Maintenance	497,097
Consultants Fee	70,000
Principal and Interest on Pre '85 Loss	81,969
Principal and Interest on Bond debt	373,100
Interest on Budget Note - 1986	1,161
Capital Additions - Equipment	<u>305,271</u>
Total Cost	\$1,310,498 (see page 3)

Less Income - Steam Sales <454,301>

\$1,356,197

\$1,356,197 = \$34.22/Ton
39,635

Note: Assumed Accounts Receivable equals Accounts Payable for 1985 and 1986.

Depreciation	\$<401,675>
Principal on Pre '85	64,029
Principal on Bond debt - 1983	175,000
Capital Additions	<u>305,271</u>
	\$ 142,625

\$142,625 = \$3.60/Ton
39,635

\$3.60 + \$30.62 (Accrual Cost/Ton) = \$34.22/Ton

Cattaraugus County Energy Facility
Cost/Ton to County

Cattaraugus County Tonnage 20,964

Cost to Cattaraugus County:

Expense for 1986 \$1,667,873

Less: Income Steam Sales \$454,301
Allegany County \$264,010

\$949,562

@14.50/Ton

@ \$20.00/Ton

\$949,562 = \$45.29/Ton
20,964

\$40.32

1st Qtr. \$33.35/Ton
2nd Qtr. \$77.62/Ton
3rd Qtr. \$37.31/Ton
4th Qtr. \$48.03/Ton

\$29.17/Ton
\$71.43/Ton
\$32.47/Ton
\$43.45/Ton

Note: Refuse charges - Misc. are not included above. These would reduce the cost/Ton by \approx .28



MODULAR STAGED COMBUSTION
OF MUNICIPAL SOLID WASTE

CONFERENCE ON SOLID WASTE MANAGEMENT
AND MATERIALS POLICY
NEW YORK CITY

FEBRUARY, 1987

Joseph W. Kennedy
Enercan Energy Services
Cuba, New York



ABSTRACT

Enercan Energy Services, a full-service contractor, is operating the 112 ton per day waste to energy plant for Cattaraugus County. The plant employs three modular staged combustion incinerators. The features and application of modular technology will be discussed. The history of the Cattaraugus plant operating performance will be reviewed and suggestions for improvements in future modular waste to energy systems will be made.



FULL-SERVICE APPROACH

Substantial benefits can be gained when a full-service approach is employed. Under the full-service approach, a company such as Enercan takes full responsibility for the design, construction and/or operation of the waste to energy facility to meet strict performance and financial guarantees. Single source responsibility for performance and costs provides an attractive alternative to conventional methods of solving the difficult problems encountered in the start-up phase and operation of waste to energy plants.

Through the Full-Service Contract, the overall control of the facility is retained by the owner without day-to-day involvement. The specific needs of the owner are fully met and the operation know-how and experience of the waste management contractor are employed to improve plant design and operation.



MODULAR STAGED COMBUSTION TECHNOLOGY

Modular incineration systems are usually shop fabricated standard design units and are shipped as a few fully-assembled components to plant sites.

About one-half of the waste-to-energy plants currently operating in North America can be classified as modular systems. These systems employ one or more combustion units with unit capacity up to about 75 tons per day. Steam is typically generated from the hot flue gases in a separate heat recovery boiler.

The typical components of a modular system are depicted in the following diagram. Waste is loaded into a ram feeder which periodically feeds the waste into a primary chamber. Combustion air is distributed into the primary chamber and the waste is burned as it is transported through the chamber. The ash is discharged into a wet ash quench system. A secondary chamber ensures complete combustion and retention of flue gases for a minimum time at minimum temperature. A refractory duct conducts the hot combusted gases to a heat recovery boiler. In case of an emergency situation (i.e. power failure), the hot gases are automatically vented from the emergency dump stack. After flue gas has been cooled in the boiler, it is cleaned prior to being exhausted up the stack.

There are several suppliers of modular systems. The main difference between the systems lies in the primary chamber and whether the chamber is operated in an excess air mode or a starved air mode. The primary chambers themselves differ as to the method of distribution of combustion air and the means of transport of the waste.

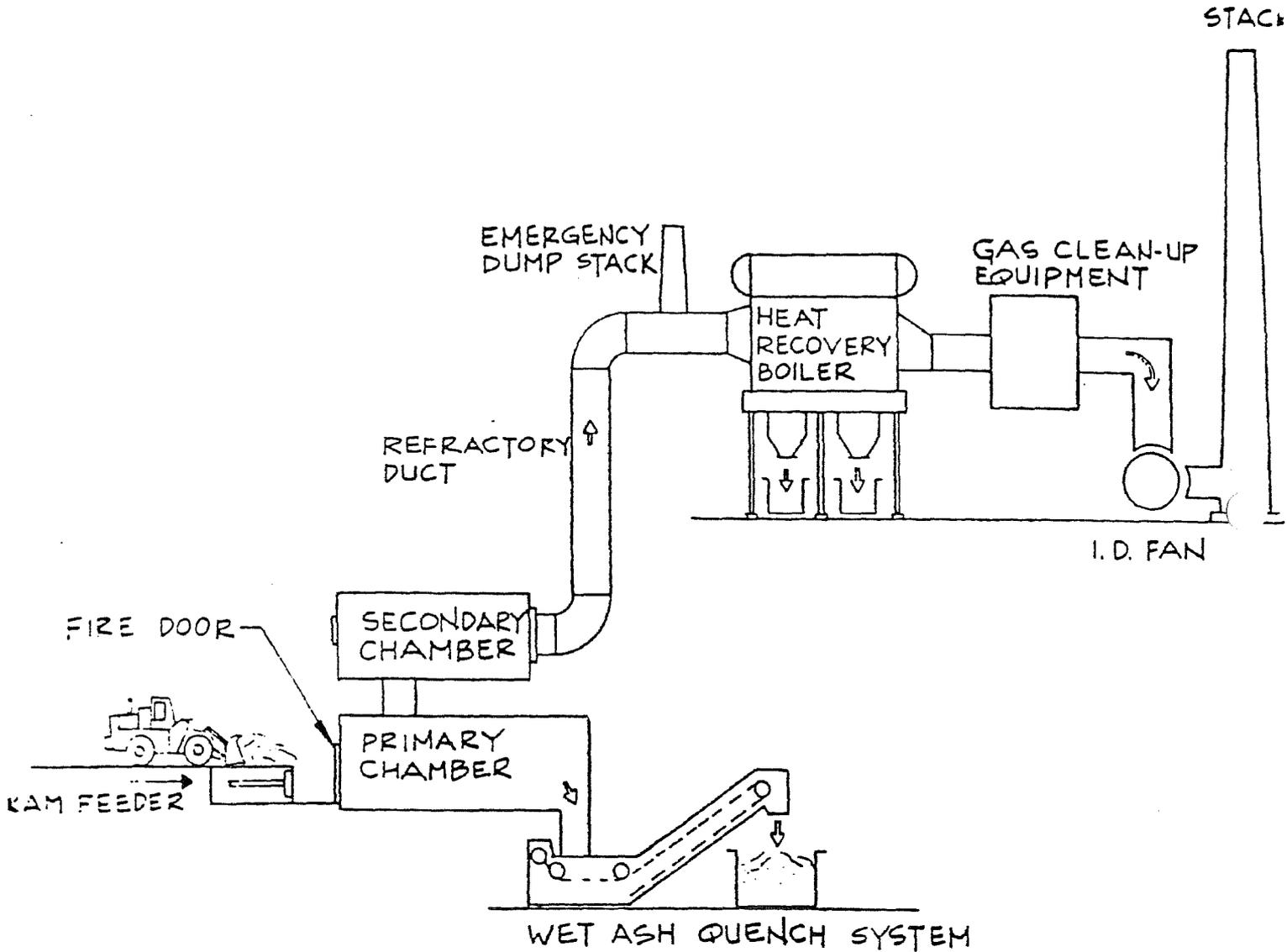


The four main categories of primary furnaces are:

- 1) fixed hearth with rams
- 2) moving grates
- 3) rotary kiln
- 4) moving hearth

Besides operating the Cattaraugus plant which employs moving grates, Enercan supplies modular staged combustion systems incorporating either a fixed hearth with rams or a rotary kiln.

TYPICAL COMPONENTS OF A
MODULAR SYSTEM FOR
MSW INCINERATION





BACKGROUND

Three major factors combined to bring this solid waste-to-energy project into being: continuing solid waste disposal problems in Cattaraugus and Allegany Counties; federal, state and local policies encouraging alternatives to the landfilling of solid waste; and the need for a stable energy supply by Cuba Cheese, Inc.

Energy shortages experienced during the winter of 1977 forced business and industry to cut back on energy use and in some cases shut down entirely. The Cuba Cheese processing plant, being energy intensive, uses about 20 million cubic feet of natural gas per month. During the winter of 1977 the plant was precariously close to a forced closing because of an inability to obtain gas. If the plant was forced to curtail its activities due to lack of an energy source, it would affect not only the 150 plant employees but also more than 500 milk producers in the Allegany, Cattaraugus, Chautauqua, Wyoming County area and parts of northern Pennsylvania which supply the milk for the cheese processing.

In the fall of 1980, Cattaraugus County began earthmoving at the waste-to-energy site for the dual purpose of constructing a grade separation for the facility and for construction of a waste water treatment system for Cuba Cheese. Contracts for the incineration system and steam supply line were awarded to R.W. Taylor Steel Company in December 1981 and the plant was put into operation in April 1983.

R.W. Taylor Steel Company, plant construction contractor, signed an agreement with Cattaraugus County to operate the solid waste-to-energy facility for a period of two years. Due to unacceptable plant performance and high operating costs, this contract was not renewed. Enercan Energy Services obtained the operations contract in July 1985.



CATTARAUGUS WASTE TO ENERGY PLANT

RECEIVING AND STORAGE

All refuse haul vehicles are weighed. The vehicles back through one of three roll-up doors and the waste is delivered onto the flat receiving floor which is approximately 40 ft. x 80 ft. in area. The majority of the waste is delivered in compacted transfer containers which can be stored on a concrete pad adjacent to the receiving building. An on-site truck is used to move waste transfer containers and ash containers.

A skid steer loader and an articulated loader mix, stack and move the solid waste.

Any material considered inappropriate for processing is removed by the receiving floor operator and placed in a container for transfer to landfill.

A receiving floor operator using a loader charges each of the three incinerator loader hoppers, in accordance with the respective load level indicators.

INCINERATION AND ENERGY RECOVERY

The plant is equipped with three Clear Air Inc. incinerators. Each incinerator line is capable of independent operation and includes:

- o feed hopper with hydraulically operated feeder
- o primary chamber
- o two slightly descending reciprocating grates hydraulically operated to transfer the waste through the primary chamber and discharge the ash
- o wet ash tank with drag conveyor
- o secondary chamber and interconnecting duct



- o vent stack to vent the hot gases to atmosphere
- o Eclipse fire tube boiler rated at 10,000 pph steam and 200 psig saturated
- o induced draft fan and stack

STEAM SYSTEM

The steam generated is transmitted through a 1500 foot 6 inch steam line to a valve located at Cuba Cheese Inc. Approximately one-half the steam line and condensate return line are below ground.

Condensate is returned from Cuba Cheese Inc. Make-up water is supplied at the plant. The condensate and make-up water is piped to the deaerator, where it is heated by low pressure steam before being fed to the boiler.

RESIDUE DISPOSAL

Residue and reject material produced by the facility is transported by the County to its landfill.



IMPROVEMENT PROGRAM

Since Enercan's takeover of the Cattaraugus plant in July 1985, a modification program involving both operating changes and technical improvements has been successfully completed.

Some of the operating changes made under Enercan management included the following:

- o staff reorganization resulting in reduction in manpower;
- o establishment of detailed cost accounting procedures;

A 15-page financial and operating statement is submitted each month to Cattaraugus County.

- o establishment of staff training and upgrading program in cooperation with the Board of Cooperative Educational Services in Olean in the fields of:
 - combustion and boilers
 - preventive maintenance and hydraulic systems
 - instrumentation and controls
 - use of computer in Waste to Energy plant operations.

More than 100 hours of working classroom sessions have been provided to the plant staff.

- o negotiation of a collective bargaining agreement with the United Steelworkers of America;
- o development of operations and maintenance manuals.

Equipment changes included the following:

- o Refractory: All of the refractory lining in the three incinerator lines was replaced with high alumina plastic refractory with ceramic anchors.
- o Fire-Tube Boilers: The fire tube boilers need to be retubed approximately every 12-15 months.
- o Ash Quench Systems: The systems have been rebuilt and a chain tensioner installed for each system.
- o Moving Grates: A new type of grate was designed and installed on the first grate section of each furnace.



- o Control System: The controls have been partly refurbished and a computer data-logging system is being installed.

Future Improvements:

To increase plant throughput and to improve plant economics and environmental emissions a comprehensive technical upgrading program is planned and will include the following:

- o turbine generator
- o increased receiving floor
- o corrugated paper recovery system
- o replacement of fire tube boilers with water tube boilers.
- o air emission control equipment



OPERATING EXPERIENCE

The plant operates 24 hours/day, 7 days/week, with a total staff of 14.

Production improvements achieved since Enercan Energy Services commenced operations are as follows:

	<u>Aug/85</u>	<u>Dec/85</u>	<u>Dec/86</u>	<u>Improvement</u>
Tons MSW Processed	2337	3208	3825	+64%
Mlbs Steam Sold	5843	8617	10154	+74%
% Wet Ash Residue	47.9	35.2	31.0	+35%*

* indicates improved combustion efficiency

A significant improvement in total plant capacity availability has also been achieved.

Initial Availability - 65% (35% unscheduled downtime)

Current Availability - 85% (10% scheduled downtime)
(5% unscheduled downtime)

Air Emissions Tests

Dioxin - 2,3,7,8, TCDD - 4.67×10^{-9} GRAMS/SEC (EPA method)

Particulate - 6.9 LBS/HR AVE. *
8.0 LBS/HR ALLOWANCE

* NO AIR POLLUTION CONTROL EQUIPMENT.



Incinerator Ash - EPA Toxicity Tests

Classification: Non-corrosive & Non-hazardous

Composition:

Inorganics

Organics

Ar	<	.13 MG/L	ENDRIN	<	.00002 MG/L
Ba	<	.02 MG/L	LINDANE	<	.00001 MG/L
Cd	=	.01 MG/L	METHOXYCHLOR	<	.00005 MG/L
Cr	<	.02 MG/L	TOXAPHEN	<	.00005 MG/L
Pb	=	.07 MG/L	2,4-D	<	.0001 MG/L
Hg	<	.04 MG/L	2,4,5-TP	<	.0001 MG/L
Se	<	.06 MG/L			
Ag	<	.01 MG/L			



CONCLUSION

The Cattaraugus Waste To Energy plant demonstrates that modular staged combustion provides reliable municipal solid waste disposal and energy recovery. The turnaround success of the Cattaraugus plant illustrates that substantial benefits can be gained when the full-service approach is employed with an experienced waste management contractor.

Significant operating improvements were achieved by training plant staff and implementing cost accounting, operation and maintenance procedures. Further improvements are expected as the technical upgrading program is completed.

From our operating experience with modular staged combustion systems, the following additional points can be made:

1. Fire tube boilers are not appropriate for heat recovery from waste incineration.
2. Secondary combustion chambers must be adequately sized to ensure complete combustion of the gases within the chamber.
3. Proper selection and installation of refractory is of paramount importance.
4. Well engineered systems and high quality robust equipment are well worth the incremental cost to the initial capital investment.

J. Margeson

PUBLIC WORKS COMMITTEE MEETING
MARCH 16, 1987

NOT
APPROVED

PRESENT:	M. Allen	L. Watson	J. Baker
	M. Mogavero	B. Hanson	B. Fitzpatrick
	C. Wentworth	D. Roeske	D. Graves
	B. Hitchcock	F. Kelley	J. Lapey
	A. Saylor	J. Hopkins	

- AGENDA:
- 1) Approval of minutes of March 2nd, 1987 meeting.
 - 2) Approval of audit
 - 3) January financial report
 - 4) Status report on:
 - a) Realignment County Road 6
 - b) Realignment County Road 20
 - 5) Bid awards
 - a) Pavement markings
 - b) Bridge deck
 - c) Dozer
 - 6) Bid opening - 12 ton trailer
 - 7) Material bids to be opened April 6, 1987
 - 8) Solid Waste
 - a) Contract with C.I.D. Landfill -non hazardous industrial waste
 - b) Roller rental-landfill project
 - c) Seasonal help request
 - 9) County Road 48 slide area

MAR 17 1987

The meeting was called to order by Chairman Allen at 8:30 A.M.

Motion was made by Mr. Saylor; seconded by Mr. Mogavero to approve the minutes of March 2nd, 1987. Carried

Bid award for one (1) Crawler Dozer. Motion by Mr. Hitchcock; seconded by Mr. Mogavero that the award be made to the low bidder, Rupp Rental for a Komatsu with a bid price of \$30,542. Carried Mr. Saylor proposed

Bid award for one (1) Bridge deck and railing system. Motion by Mr. Saylor and seconded by Mr. Wentworth that the award be made to Laminated Concepts for a bid price of \$25,450. Carried

Bid award for Pavement Markings, Chemi-trol Chemical Company was the low bidder. Motion by Mr. Saylor; seconded by Mr. Hitchcock to award bid to Chemi-trol Chemical Company. Carried

Bids were opened for One (1) 1986 or 1987 New Tag Trailer (12 Ton).

Syracuse Supply Company	\$7,840.00	BAME
Rupp Rental	\$7,339.00	HUDSON BROTHERS
Dow Equipment Company	\$5,080.00	HUDSON BROTHERS

Mr. Kelley discussed a contract with C.I.D. Landfill for the disposal of non-hazardous industrial waste. Mr. Kelley reported on the testing and permits necessary for municipalities and industries to dispose of this type of waste. Mr. Kelley noted that this contract is for the disposal of non-hazardous industrial waste and does not involve the municipal waste now being hauled to C.I.D. The tipping fee under this contract shall be \$25 per ton. Mr. Kelley reviewed the contents of the contract. Mr. Hanson stated that the County Attorney has reviewed this contract, Mr. Kelley asked for committee approval to execute this contract. Motion by Mr. Mogavero; seconded by Mr. Wentworth. Carried

The committee directed Mr. Kelley to study costs of landfilling non-hazardous industrial waste and possibly charging the waste generators for his service.

Mr. Kelley reported that construction on the landfill will be starting soon. Mr. Kelley discussed the need to rent a compactor. It is actually cheaper to rent a machine for the time it will be used versus buying one. Mr. Kelley has requested rates from various firms. The committee felt that the best rate should be used.

Mr. Roeske gave a status report on both County Road 20 and County Road relocations. County Road 20 will be let for bid as soon as right-of-way is procured. The engineering consultant for the County Road 6 project has been given the go ahead for right-of-way maps, final design and specifications.

Mr. Hanson asked if anyone had questions pertaining to the February financial report. No questions were asked.

Mr. Hanson would like to schedule a meeting with the Town Highway Superintendent's Associations' Bridge Committee sometime during the month of May. Mr. Hanson asked the committee for their views on the subject of bridges. Mr. Watson felt that a memorandum to all legislators asking for their views would be beneficial.

Mr. Roeske reported on a problem with County Road 48 between the landfill and the Fanton farm. A large slide area is threatening the roadway. A topographical map with a proposed new alignment was shown to the committee. Mr. Hanson and Mr. Roeske encouraged the committee members to look at this problem in the field. Preliminary estimates for the realignment would be near \$250,000.

Motion by Mr. Hitchcock; seconded by Mr. Allen to adjourn the meeting at 10:37 A.M. Carried

Respectfully submitted,



David S. Roeske
Deputy Superintendent I

OSR:bjh

Enc.

COMPARISON SHEET

(1) NEW 1986 or 1987 CRAWLER DOZER

<u>WELLS COUNTY</u>	<u>KOMATSU (RUPP)</u>	<u>JOHN DEERE (MECCA KENDALL)</u>	<u>DRESSER (DOW)</u>
<u>ENGINE:</u> 4 Cylinder Diesel Minimum Cu. In. of 239 Flywheel horsepower to be min. of 65 H.P. dry type air cleaner with restriction indicator -fan cooling with reversible blades. Cold weather start aid; Pre-air cleaner equal to Sureco Turbo Pre-Air "	70 H.P. 4 cylinder	70 H.P. 4 cylinder	65 H.P. 4 cylinder
<u>TRANSMISSION:</u> Transmission to minimum of 3 speed forward; transmission to minimum of 3 speed reverse; powershift type	Hydroshift 3 speed forward 3 speed reverse	Powershift Speeds Hi-Low 8 forward; 4 reverse	Powershift 3 forward 3 reverse
<u>ELECTRICAL:</u> 12 volt system with minimum 42 amp alternator. Front & rear work lights, hour meter, horn & key switch start.	24 volt - 25 amp	12 volt - 51 amp	12 volt ?? amp
<u>STEERING:</u> Steering clutches and brakes are controlled by a single lever for each track. A foot pedal for parking brake. Full hydraulic steering	Hand-operated hydraulic	Hand-operated hydraulic	Hand-operated hydraulic
<u>TRACK FRAME:</u> Heavy Steel channel, rigid mount. Minimum of 5 track rollers and one carrier roll each side. All rollers and idlers to be of lifetime lubricated type. Full length rock guards, and front/rear bottom guards	Sealed-lubricated (meets specs)	Meets Specs.	Meets specs.
<u>HYDRAULICS:</u> Hydraulic oil capacity to be minimum of 8.0 gallons. Pump to be gear type, capacity to be at least 18 G.P.M. Full flow type filters; minimum of 2000 PSI	8.7 gal. capacity - 23 gal minimum	10.5 gal. capacity - 17 gal. minimum	10.0 gal. 13.4 gal. minimum

HYDRAULIC LIFTERS: BORE:

lift 3.0 minimum
 angle 3.0 minimum
 tilt 3.0 minimum

NOTE:
 Lift be power angle, tilt, and all hydraulic with corner bits, reversible replaceable cutting edge; height of blade from bottom of blade to top 28" minimum; length of blade 90" minimum; minimum lift above ground - 29"; minimum depth below ground - 13"; inside arm hydraulic angle 4.73"

RATING WEIGHT:
 Maximum weight with isolated rops with winch, and winch 15,000 lbs.

ACCESSORIES TO BE INCLUDED:
 Parts & operators manuals
 Sets of keys
 Engine compartment side covers
 Front pull hook
 Suspension seat w/seat belts
 Low fuel alarm
 Oil kit; trash resistant radiator
 PTO protection; drawbar w/pin
 PTO be compatible to the winch.
 PTO flange; isolated rops canopy w/sweeps
 PTO decelerator foot operated

MECHANICAL WINCH:
 Electric Winch Drive; drum line pull to be minimum of 20,000 lbs.; rear screen for cab; line pull to be equal to Model 19 Gearmatic mechanical winch; reversible, automatic brake, spool release

KOMATSU (RUPP)

3.54" Bore
 3.54" Bore
 3.54" Bore

Meets specs.

15,650 lbs.

All accessories

Meets Specs.

JOHN DEERE (MECCA KENDALL)

3.5" Bore
 3.5" Bore
 3.5" Bore

Meets specs.

Meets specs.

No foot operated
 Decelerator

Meets Specs.

DRESSER (DOH)

Lift 16.03"
 angle 13.79"
 tilt 4.73"

Meets specs.

15,839 lbs.

All accessories

Meets Specs.

ALLEGANY COUNTYKOMATSU (Rupp)JOHN DEERE (MECCA KENDALL)DRESSER (DOW)WARRANTY:6 months; 36 months.
drive train12 months; 24 months
drive train

12 months

PRICE:

\$30,542.00

\$31,630.00

\$34,936.00

COMMENTS:

Operator # 1 - Komatsu - plenty of power, smooth hydraulic action, blade is much stronger than John Deere. Much easier to operate with foot decelerator. Recommends Komatsu.

Operator #2 - Believes both machines are adequate; but thinks we should buy American made.

Operators at Landfill - The operators that have run both machines recommend Komatsu.

Dave Roeske - Dave Roeske has made many calls to Komatsu owners and found parts availability to be good along with service. Some compared this machine with a Cat D-3. Rupp Rental is a well-established company with a large parts inventory.

There seems to be a concern among some John Deere owners to the stability of area dealers. Parts availability seems to be no big problem at this time.

Its true Komatsu is Japanese made with assembly plants in the U.S. John Deere is manufactured in the U.S. with many parts made elsewhere. Not many machines are made totally in the States.

Komatsu is low bid, either machine will do the job.

J. Margson
DOT

APPROVED

PUBLIC WORKS COMMITTEE MEETING
APRIL 6, 1987

APR 14 1987

PRESENT: M. Allen A. Sylor F. Kelley
 M. Mogavero L. Watson J. Hopkins (WDR)
 C. Wentworth B. Hanson J. Dickenson (OTH)
 B. Hitchcock D. Roeske J. Baker (WLSV)

- AGENDA: 1) Approval of minutes of 3/16/87
 2) Audit of bills
 3) Solid Waste
 a) Leachate Collection Basin Specs
 b) Personnel needs
 c) Spring cleanup memo
 4) Trailer award
 5) Material bid openings
 6) Resolution for CHIPS projects
 7) Status report C.R. 6 and C.R. 20
 8) Seasonal help
 9) Letter from Mt. Hope Cemetery
 10) Review of meeting with Cattaraugus County on 3/26/87
 11) Resolution for NYS DOT maintenance abandonment;
 Town of Scio
 12) Resolution for Public Hearing; re: Reserve for
 Repairs Fund
 13) Request for additional funds for C.R. 11 bridge

The meeting was called to order by Chairman Allen at 8:30 A.M.

Approval of the minutes of the March 16, 1987 meeting. Motion by Mr. Mogavero; seconded by Mr. Wentworth. Carried

Approval of the audit. Motion by Mr. Wentworth; seconded by Mr. Hitchcock. Carried

Bids were opened on the following items:

- 1) Culvert pipe and bands
- 2) Steel beam guide rail, posts, block-outs and back-up plates
- 3) Steel
- 4) Washed crushed gravel, crushed limestone, sand
- 5) Sign blanks and posts
- 6) Bituminous materials
- 7) 1311 Calcium Chloride/Sodium Chloride Brine
- 8) Motor oil
- 9) Calcium Chloride solution
- 10) Tire changer

Bid award - Tag Trailer. Motion made by Mr. Sylor; seconded by Mr. Hitchcock, that the award be tabled until the next Public Works Committee Meeting. Carried

Mr. Kelley discussed bid specifications for the proposed concrete holding pond which will be used in leachate collection and treatment. It is important that bids for the construction of this tank be opened as soon as possible. The County can not operate the landfill without this tank. Motion by Mr. Hitchcock; seconded by Mr. Mogavero to proceed with the bidding process. Carried

Mr. Kelley discussed a memorandum that he would like to send to all Towns and Villages in the County. The County will not accept any waste from spring clean-ups, or other certain wastes. (See attached memorandum.) Approval to send memorandum. Motion by Mr. Mogavero; seconded by Mr. Allen. Carried

Mr. Kelley discussed positions needed by the Solid Waste Division. See attached sheet. Mr. Roeske also outlined the needs of the Highway Division for seasonal employees and the need to fill vacancies in the Engineering Department. All positions have been budgeted for 1987.

Mr. Hanson asked the committee for approval to address the Committee of the Whole regarding seasonal and vacant positions. Motion by Mr. Sylor; seconded by Mr. Hitchcock. Carried

Mr. Kelley gave a brief update on the NYSERTA grant.

Mr. Hanson and Mr. Allen met with officials from Cattaraugus County to discuss a new contract in regard to the use of the Cuba Incinerator and establishing a tipping fee. See attached letter.

The committee discussed problems on C.R. 12 (Elm Valley Road). Mr. Roeske was instructed to check on any funding that may be available for the project near the Lake Road. It was also suggested that the County look into State takeover of this highway.

Mr. Hanson discussed a letter from the Mt. Hope Cemetery Association asking that when C.R. 31 is repaved that the entrance to the cemetery also be resurfaced. It is the feeling of the Department that once this is started for one, others will also request this service. The committee agreed that this request be denied.

Mr. Hanson requested that a resolution be prepared to set up capital accounts for three CHIPS projects. This shall be an Inter-fund Transfer from account D 9553.9 Capital Fund CHIPS into three capital accounts of \$45,000 each. Motion by Mr. Sylor; seconded by Mr. Mogavero. Carried

COUNTY ATTORNEY PREPARE RESOLUTION

Mr. Roeske gave a brief up date on the County Road 6 relocation and the County Road 20 relocation.

Mr. Hanson discussed the rehabilitation of the mental Health Building in Wellsville. There has been talk of the Mental Health Organization becoming separate from the County. Mr. Sylor stated that if this happened the County would still own the building and would lease it to Mental Health. Mr. Hanson was given the go ahead to do repairs such as painting inside and out, lighting and roofing.

Mr. Hanson requested a resolution be prepared requesting that the State of New York relinquish maintenance responsibility on certain parcels of right-of-way in the Town of Scio on State Route 19 in the areas of the Pioneer Pine Buildings. The County owns the land in fee but State has maintenance responsibility. This is necessary for a real estate transaction. Motion made by Mr. Sylor; seconded by Mr. Mogavero. Carried

COUNTY ATTORNEY PREPARE RESOLUTION

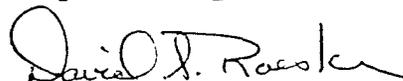
Mr. Hanson requested a resolution be prepared to set a public hearing date on April 27, 1987 on a proposal to appropriate moneys from the Reserve for Reparis Fund for improvements on the County Courthouse and County Office Building. The three projects would be parapit repair - \$2,500, New entrance doors - \$2,000 and the landscaping in front of the courthouse - \$5,000. Motion by Mr. Hitchcock; seconded by Mr. Sylor. Carried

COUNTY ATTORNEY PREPARE RESOLUTION

Mr. Hanson requested an additional \$24,000 to complete the McHenry Valley Bridge, County Road 11. Mr. Roeske explained that the additional cost is caused by a combination of weather, equipment breakdowns, increase cost of abutment removal and more steel sheet piling than expected. Estimate was low to begin with. Motion by Mr. Sylor; seconded by Mr. Wentworth to turn the request over to the Ways and Means Committee. Carried

Motion to adjourn by Mr. Wentworth; seconded by Mr. Allen. Carried. Meeting was adjourned at 11:30 A.M.

Respectfully submitted,



David S. Roeske
Deputy Superintendent I

DSR:bjh

Enc.

MEMORANDUM OF EXPLANATION

INTRO. No. _____
(Clerk's Use Only)

DATE: _____

COMMITTEE: Public Works

A resolution is needed to transfer funds from D 9553.9 - Capital Fund CHIP to three project accounts. Said account numbers are to be established by the County Treasurer's Office.

- | | | | | |
|----|------------------------|----------|---------|----------|
| 1) | 1.5 miles | COLD MIX | C.R.#11 | \$45,000 |
| 2) | 1.5 miles | COLS MIX | C.R.#39 | \$45,000 |
| 3) | Bridge Rehabilitation; | Bridge | | |
| | #21-6, | C.R.#19 | | \$45,000 |

WRH:bjh
4/9/87

FISCAL IMPACT:

MEMORANDUM OF EXPLANATION

INTRO. No. _____
(Clerk's Use Only)

COMMITTEE: Public Works

DATE: _____

A resolution is needed for the purpose of requesting the State of New York to abandon maintenance jurisdiction to Allegany County on three small parcels of land that the County has fee interest in.

Parcels are along New York State Route 19, Town of Scio.

A Mr. Green has a building on the property that is owned by the County and maintained by the State.

Once the state abandons maintenance to the County, the County can convey to Green and Green can sell.

WRH:bjh
4/9/87

FISCAL IMPACT:

MEMORANDUM OF EXPLANATION

COMMITTEE: Public Works

INTRO. No. _____
(Clerk's Use Only)

DATE: _____

A resolution is needed to set a public hearing to appropriate moneys from the Reserve for Repairs Fund to Building Account for three (3) public works projects:

Request for hearing on April 27, 1987

Projects are:

- 1) Parapit repair-County Office Building -\$2500
- 2) New entrance doors-Courthouse Bdlg. -\$2000
- 3) Replace/relandscape front of Courthouse\$5000

WRH:bjh
4/9/87

FISCAL IMPACT:

LANDFILL POSITION

Currently:

Landfill Supervisor: Supervises operations at the landfill,
Maintenance scheduling
Inventory control
Records
Supervise personnel
Waste control

Landfill Operator:
Maintenance of transfer stations and related equipment
Backup T.S. Supervisor

HMEOII:
Heavy equipment operator in the landfill
P.M. landfill equipment
Backup driver T.S. Operations

Need:

HMEOI:
Heavy Equipment operator
Backup HMEOII
Leachate Hauling
P.M. Landfill Equipment

Landfill Scale Operator:
Bookkeeping
Telephone and radio
Scale operations
Waste logging
Backup Shop Maintenance

Seasonal Help:

Engineering : 2 people for Solid Waste Engineering
1 person for Engineering

Laborers:

4 Laborers 2 with equipment background
2 Laborers

4 Work Relief Laborers, as fill in workers.



ALLEGANY COUNTY DEPARTMENT OF
PUBLIC WORKS

GARY J. ROBBINS
Superintendent

WILLIAM R. HANSON
Deputy Superintendent

ROOM 210 COUNTY OFFICE BUILDING BELMONT, NEW YORK 14813
TELEPHONE 716 268-9200

March 27, 1987

Rick Johnson, Commissioner
Cattaraugus County DEW
214 Main Street
Little Valley, New York 14755

Dear Rick:

As per our discussion on Thursday March 26, 1987, I indicated that I would forward to you comments and requests that Allegany County would want considered during the preparation of a new contract for the supply of solid waste to the incinerator facility in Cuba, New York.

Allegany County would like Cattaraugus County to prepare a new preliminary draft solid waste disposal contract as soon as possible taking into consideration the following:

- 1) Allegany County would not be committed to a fixed number of tons per year.
- 2) If Allegany County takes ash from the incinerator facility in Cuba, New York, what impact would that have on the tipping fee charged to Allegany County?
- 3) Allegany County would like to have a copy of Cattaraugus County's Annual Report and Audit Report.
- 4) What would be the formula or basis for establishing the tipping fee?
- 5) If a formula is an integral part of the contract the term of the contract should be three years.
- 6) Definitions of burnables, non-burnables, hazardous waste, hardfill, large objects, etc., should be defined.

Once Cattaraugus County drafts a preliminary contract please have it sent to my office and I will make sure the appropriate Allegany County Officials review it for comments, input and revisions.

Rick Johnson, Commissioner
Cattaraugus County DPW
214 Main Street
Little Valley, New York 14755

Page Two

As you well know the process of developing a mutually acceptable contract will take some time and the Allegany County Board of Legislators wants the recommended contract presented for approval by December 31, 1987.

I realize that you and your Public Works Committee face many critical decisions and challenges and the request made by this letter certainly adds to the demands but this matter has to be addressed.

Many thanks for your anticipated efforts.

Sincerely,



William R. Hanson, Superintendent
Allegany County Department
of Public Works
Rm 210-County Office Building
Belmont, New York 14813

WRH:bjh

xc: Ron Priest, Chairman
Cattaraugus County Legislative DPW Committee
County Office Building
303 Court Street
Little Valley, New York 14755

xc: Leonard Watson, Chairman
Allegany County Board of Legislators

✓ xc: Max Allen, Chairman
Allegany County Legislative DPW Committee

xc: Fred Kelley, Jr., Deputy Superintendent II
Allegany County Solid Waste Division

LANDFILL POSITION

Currently:

Landfill Supervisor: Supervises operations at the landfill,
Maintenance scheduling
Inventory control
Records
Supervise personnel
Waste control

Landfill Operator:
Maintenance of transfer stations and related equipment
Backup T.S. Supervisor

HMEOII:
Heavy equipment operator in the landfill
P.M. landfill equipment
Backup driver T.S. Operations

Need:

HMEOI:
Heavy Equipment operator
Backup HMEOII
Leachate Hauling
P.M. Landfill Equipment

Landfill Scale Operator:
Bookkeeping
Telephone and radio
Scale operations
Waste logging
Backup Shop Maintenance

Seasonal Help:

Engineering : 2 people for Solid Waste Engineering
1 person for Engineering

Laborers:

4 Laborers 2 with equipment background
2 Laborers

4 Work Relief Laborers, as fill in workers.



ALLEGANY COUNTY DEPARTMENT OF
PUBLIC WORKS

CARY J. ROBBINS
Superintendent

WILLIAM R. HANSON
Deputy Superintendent

ROOM 210 COUNTY OFFICE BUILDING BELMONT, NEW YORK 14813
TELEPHONE 716 268-9230

MEMO

TO: ALL TOWNS AND VILLAGES IN ALLEGANY COUNTY

FROM: FRED KELLEY, JR., DEPUTY SUPERINTENDENT II, ALLEGANY CO., DPW

RE: SPRING CLEANUPS, WATERTREATMENT WASTES, SEWER TREATMENT PLANT WASTES

DATE: APRIL 6, 1987

Allegany County is not accepting waste collected by Municipal sponsored spring cleanups until after the County Landfill opens sometime this summer. Because of the current haul distance to dispose of this waste it will be impossible to properly operate the transfer system. Realizing the importance of annual cleanups a fall program is suggested.

The cost of waste disposal is increasing continuously, and ways to control this cost will be implemented during this year.

The waste disposal crisis has just begun. We are currently considering not accepting items such as grass clippings, brush, leaves, bricks, rocks, dirt and trees. It is irresponsible to treat these items as solid waste because these items are not garbage and should not be handled as garbage. It is foolish to monitor these items in a landfill for the next 70 years. Landfill space is too expensive to waste on these items. When the decision is made we will inform the public through the press. Municipalities will be sent letters on the decision. Currently we spend approximately \$40,000.00 per year disposing of these items.

DEC is enforcing regulations on disposal of Water Treatment Plant Wastes and Sewer Treatment Plant Wastes. We are completing the first round of permits for disposal of these wastes in the current County disposal site, which is C.I.D. landfill. We will be starting the process again, by May 1st, for disposal in the County Landfill. We have been informed that we cannot just change disposal sites without going through the entire permit process again. It is our suggestion that any analytical work done in the past be updated to conform to the enclosed waste material profile. Any questions can be directed to Gregg Schnurle from our Engineering Department. His phone number is 268-9230.

SECTION 01060

REGULATORY REQUIREMENTS

PART 1 - GENERAL

1.01 CODES

- A. General: Comply with the requirements of all applicable codes referred to in these specifications or which govern industry standards.
- B. State and Local Codes: Comply with the requirements of most recent edition of all such codes including, but not limited to the following:
 - 1. New York State Uniform Fire Prevention and Building Construction Code.
 - 2. Any and all local codes.

1.02 LAWS

- A. Follow all local laws of governing municipality.

1.03 PERMITS AND INSPECTIONS

- A. Building Permit: All local or state building permits, inspections and certificates, if required, as related to Contractor's respective work.

1.04 LISTING

- A. All materials and equipment furnished for installation in the project shall be listed and bear the listing mark of Underwriter's Laboratories, Inc. (UL) if covered by UL product listing service.

END OF SECTION

CONSTRUCTION FACILITIES AND TEMPORARY CONTROLS

PART 1 - GENERAL

- 1.01 Provide temporary facilities and controls necessary for the work.
- 1.02 TEMPORARY POWER
- A. Establish with Owner location to connect temporary power to existing electrical system.
 - B. Contractor to make all connections and provide any temporary extensions, equipment and safety devices.
 - C. Owner will supply the power for construction within the limits of the existing electrical system at no cost to Contractor providing it does not interfere with normal Operations.
- 1.03 TEMPORARY WATER
- A. Temporary water will be available at existing locations within the limits of existing system at no charge to the Contractor.
 - B. Contractor to make any extensions or provide for any additional water requirements.
- 1.04 TEMPORARY TOILETS
- A. Contract may use County Landfill facilities during normal working hours or make other arrangements to provide proper sanitary facilities.
- 1.05 BARRICADES
- A. Provide, erect, and maintain temporary barricades, fencing or other suitable barriers necessary to protect workmen, the public and the project.
- 1.06 ACCESS ROUTES AND PARKING AREAS
- A. Store materials and perform work such that vehicular traffic and County Landfill operations will not be obstructed.
 - B. Use areas designated by Landfill Superintendent for parking and materials storage.
- 1.07 RUBBISH REMOVAL
- A. Keep site clean and safe.
 - B. At least once daily, clean up debris from construction operations and closely pile debris in a designated location.
 - C. At least once a week, remove piled debris from Owner's property and properly dispose of all waste materials.
 - D. Burning of waste materials shall not be allowed.

END OF SECTION

SECTION 01600

MATERIALS AND EQUIPMENT

PART 1 - GENERAL

1.01 DESCRIPTION

- A. General requirements with regard to all materials and equipment are included in this section.
- B. Specific requirements listed in other sections also apply and may modify these general requirements.

1.02 LABELS

- A. All materials, products, and equipment that carry UL product listing or specified to conform to ASTM, Federal, or to the agency specifications, shall be delivered to the site bearing the manufacturer's printed label stating that the item meets the referenced requirements.
- B. Materials, products, and equipment without these labels shall be rejected.

1.03 TRANSPORTATION AND HANDLING

- A. Deliver manufacturer's packaged products in original factory containers or packaging.
- B. Use means to transport and handle materials and equipment to prevent damage.
- C. Have workmen available to receive and unload materials and equipment delivered to the site. Do not schedule deliveries to the site unless workmen will be available. County Landfill personnel shall not be used.

1.04 STORAGE AND PROTECTION

- A. Neatly pile, store, and protect products in approved locations.
- B. Protect products from damage due to elements.
- C. Keep volatile products out of and away from Owner's buildings and equipment.

END OF SECTION

SECTION 02200

EARTHWORK FOR LEACHATE BASIN BUILDING

PART 1 - GENERAL

1.01 DESCRIPTION

- A. Perform all excavation necessary for installation of timber columns and foundation.
- B. Backfill around columns using suitable excavated material.

1.02 JOB CONDITIONS

- A. Protect newly graded areas from traffic and erosion, and keep them free of spoil material and construction debris.

PART 2 - MATERIALS

2.01 BACKFILL

- A. Suitable material shall be evenly graded with 100% passing a 2 - inch sieve and 0 to 10 percent passing a No. 200 sieve.
- B. Suitable material shall consist of sound, durable mineral soil (inorganic) free from deleterious materials.
- C. Unsuitable material shall consist of material containing organic matter, industrial waste, building rubble, or landfill.
- D. If excavated material is unsuitable, the County will provide suitable material for installation by the Contractor at no charge.

PART 3 - EXECUTION

3.01 UNDERGROUND UTILITIES

- A. Locate, support and protect any underground utilities.
- B. Remove any abandoned or inactive utilities in the area to be excavated.
- C. Permanently close any open ends of any abandoned underground utilities.

3.02 EXCAVATION

- A. Excavate as required for the work using most practical means.
- B. Stockpile excavated material on site until required for backfill or grading. The County will remove any excess excavated material.
- C. Protect adjacent structures and appurtenances as well as integrity of recompacted earth liner and drainage layer.

- D. Excavation for structures shall conform to elevations, lines and limits of drawings. Take every precaution against disturbing bottom of foundation excavation. Leave solid undisturbed base for concrete. Excavation below bottom of the foundation shall be filled with concrete to foundation grade.
- E. If bottom of excavation for foundation is unsuitable, then upon order of the Owner, excavate to suitable subgrade and backfill using concrete or gravel as approved by the Owner.

3.03 Dewatering

- A. Prevent surface and subsurface or groundwater from flowing into excavations.
- B. Do not allow water to accumulate in excavations where it could harm the foundation.
- C. Convey water from excavations to suitable runoff area.
- D. Provide and maintain temporary drainage ditches, erosion control and siltation devices as necessary.

3.04 BACKFILL

- A. Backfill as soon as work permits following approval of construction below finish grade by Owner.
- B. Place backfill in layers not exceeding 8 inches in loose depth.
- C. Compact each layer of fill to 95% of maximum density as determined by "Modified Proctor" Test, ASTM D1557, before placing next year.

3.05 FINISH GRADING

- A. Provide a smooth finished surface graded and compacted under the perimeter of the building a minimum of four feet wide centered on the columns.
- B. Grade area adjacent to building line to drain away from building or to prevent ponding along or under the walls.
- C. Coordinate work with work to be performed by Owner.
- D. Restore grades as specified above where settlement of excavated areas occurs.

END OF SECTION

SECTION 02591

LEACHATE COLLECTION BASIN

PART 1 - GENERAL

1.01 DESCRIPTION

- A. Construct leachate collection basin as shown on plans.
- B. Basin to be reinforced concrete installed on sand layer with monitoring pipe and secondary recompacted earth liner beneath.

1.02 SUBMITTALS

- A. Product data on pipe, joints, fittings, sleeves and pipe seals.
- B. Product data and application instructions on epoxy coating.

1.03 PIPE DELIVERY, STORAGE AND HANDLING

- A. Unload and distribute at the site all pipe and accessories. Material is not to be dropped, bumped or damaged.
- B. The Contractor will replace at his expense all material found defective in manufacture or damaged in handling.
- C. Keep the interior of all pipe free from dirt and foreign matter at all times.
- D. Drainage and storage of materials is required to prevent damage due to freezing or trapped water.
- E. Store to prevent distortion of pipe, both linear and round.

PART 2 - PRODUCTS

2.01 PIPE AND RELATED PRODUCTS

- A. Wall sleeve: Standard weight steel pipe wall sleeve having an inside diameter of 12 inches.
- B. Pipe Seal:
 - 1. Pipe to wall penetration closures shall be modular mechanical type, consisting of interlocking synthetic rubber links shaped to continuously fill the annular space between the pipe and the wall sleeve.
 - 2. Links shall be loosely assembled with bolts to form a continuous rubber belt around the pipe with a pressure plate under each bolt head and nut.
 - 3. Tightening of the bolts shall cause the rubber sealing elements to expand and provide an absolutely water-tight seal between the pipe and wall sleeve.
 - 4. Seals shall be "Link Seal" as manufactured by Thunderline Corporation or approved equal.

- C. Ductile Iron Pipe and Fittings
 - 1. Ductile Iron Pipe, ANSI/AWWA C151/A21.51
 - a. Thickness: Class 52, ANSI/AWWA C150/A21.50
 - b. Joints: Push on ANSI/AWWA C111/A21.11
 - c. Lining: cement mortar ANSI/AWWA C104/A21.4
 - 2. Fittings, including wall sleeve, ANSI/AWWA C110/A21.10
 - a. Lining: cement mortar ANSI/AWWA C104/A21.4
 - b. Joints: push on

2.02 SAND

- A. Washed, coarse sand
- B. Gradation Requirements:
 - 1. 100% passing 1/4 inch sieve
 - 2. 75 - 100% passing #8 sieve
 - 3. 0-35% passing #50 sieve
 - 4. 0-10% passing #100 sieve
- C. Minimum Permeability: 1×10^{-3}

2.03 UNDERDRAIN PIPE AND FITTINGS

- A. Material: Schedule 80 PVC, ASTM D1785
- B. Type: Perforated, wrapped with filter fabric and standard non-perforated.
- C. Filter Fabric: Trevira Spunbond S1155 or equal.

2.04 CONCRETE (See Section 03300 - CAST-IN-PLACE CONCRETE).

2.05 CONCRETE PROTECTIVE COATING

- A. Epoxy Coating
 - 1. Sikagard 62 High Build Energy
 - 2. Tremec Series 66 Hi-Build Epoxoline
- B. Color: To be selected by Owner.

PART 3 - EXECUTION

3.01 PRELIMINARY WORK

- A. Excavate to proper grade and slopes.
- B. Maintain a dry condition.
- C. Compact excavated area and check for soft spots or unsuitable materials. Excavate and replace all soft or unsuitable materials.
- D. If groundwater is intercepted, construct subdrainage as under landfill.

3.02 RECOMPACTED EARTH LINER

- A. Scarify subgrade to minimum 8 inches and construct 2-1/2 foot thick recompacted earth liner with permeability of 1×10^{-7} or less.
- B. Follow same construction and testing procedures specified in Section 02290, "Double Recompacted Earth Liner", 3.02 Double Liner Construction, B thru J.
- C. Final surface to be smooth and conform to grades shown on plans.

3.03 DRAINAGE SYSTEM INSTALLATION

- A. Maintain minimum slope of 0.2 percent.
- B. Wrap pipe in filter fabric and install with perforations down.
- C. Use standard manufactured couplings and fittings.
- D. Use care to prevent damage to the pipe or fabric wrap.

3.04 SAND FILTER

- A. Place minimum 12" layer of sand on recompacted earth liner on floor.
- B. Make certain substrate slopes to drain.
- C. Backfill sides with sand after forms are removed.

3.05 CONCRETE BASINS

- A. Construct concrete basins on prepared sand filter substrate.
- B. Concrete construction to be in accordance with Section 03300.
- C. Install ductile iron drain lines and wall sleeves prior to placing concrete.

3.06 PROTECTIVE COATING APPLICATION

- A. Allow concrete to cure and properly prepare surface.
- B. All materials delivered to the job site shall be in original sealed and labeled containers of the paint manufacturer.
- C. Coatings shall be applied during good painting weather. Air and surface temperatures shall be within limits prescribed by the manufacturer for the coating being applied and work areas shall be reasonably free of airborne dust at the time of application and while the coating is drying.
- D. Materials shall be mixed, thinned and applied according to the manufacturer's printed instructions.
- E. Apply 2 coats to interior and top surfaces of concrete basin. Coat thickness to be 4 to 7 mils each.
- F. All work shall be cut in neatly and finish coats shall be uniform in color and texture without streaks, laps, heavy build-ups, runs, sags, or missed areas.
- G. Correct work that is not acceptable.

END OF SECTION

SECTION 03300

CAST-IN-PLACE CONCRETE

PART 1 - GENERAL

1.01 QUALITY ASSURANCE

- A. Conform to the requirements of "Specifications for Structural Concrete for Buildings (ACI 301 - Latest Edition)" of the American Concrete Institute, except as modified herein.
- B. Conform to appropriate ASTM Standards for Testing and Materials.
- C. Concrete batching plant shall be currently approved as concrete supplier by the New York State Department of Transportation.

1.02 SUBMITTALS

- A. Shop Drawings: Show all bar reinforcement. Indicate bending diagrams with dimensions and the size, type and location of bar supports.
- B. Product Data:
 1. Concrete design mix with name and location of batching plant.
 2. Portland Cement: Brand and manufacturer's name.
 3. Air-Entraining Admixture: Brand and manufacturer's name.
 4. Aggregates: Name and location of source and D.O.T. test numbers.
 5. Bar Reinforcement: Manufacturer's certification that bar material conforms with ASTM A 615 and specified grade.
 6. Brand and manufacturer's name, and application instructions.
- C. Testing laboratory for approval.
- D. Reports of compression, yield, air content and slump tests.
- E. Certificates:
 1. Manufacturer's certification that materials meet specifications.
 2. Material content per cubic yard of each class of concrete furnished.
 3. Ready-mix delivery tickets.

1.03 TESTING CONCRETE

- A. General
 1. The Engineer will assist in the preparation of test specimens.
 2. Provide concrete for test purposes at no additional cost to Owner.
 3. Protect, store, transport, and test specimens at no additional cost to Owner.

B. Methods:

1. "Standard Method of Test for Compression Strength of Molded Concrete Cylinders" - ASTM C-39.
2. "Standard Method of Slump Test for Consistency of Portland Cement" - ASTM C-143.
3. "Standard Method of Test for Weight per Cubic Foot, Yield and Air Content of Concrete - ASTM C-138.
4. "Standard Method of Making and Curing Compression and Flexure Test Specimens in the Field" - ASTM C-31.

C. Test Frequency:

1. Perform slump and air tests for each load at point of discharge.
2. Perform compression tests on each pour of 25 cubic yards or fraction thereof; 1 test is 2 specimen "breaks" at same time interval.
3. Compression test specimens as follows:

<u>Pour Quantity</u>	<u>Number of Specimens</u>	<u>Test Days</u>
0 - 10 (CY)	2	28
10 - 20	4	14, 28
20 - 50	6	7, 14, 28
50 & above	6 plus 1 for each additional 10 yds above 50.	7, 14, 28

D. Material rejection:

1. Concrete which does not meet the specified slump or percent air range.
2. Compression test specimens indicate less than minimum strength, require at least 2 core samples and tests to prove the in-place acceptability to the Engineer.
3. Should core specimens not meet minimum requirements, the Owner reserves the right to deduct from the contract price a sum of money representing the proportionate loss in concrete strength or to require the Contractor to remove the concrete as represented by the test specimens, from the pour and replace the same with concrete of specified strength at no additional expense to the Owner.

1.04 ENVIRONMENTAL REQUIREMENTS

A. Allowable concrete temperatures:

1. Cold weather (40° or lower) minimum - 55°F
2. Hot weather (90° or higher) maximum - 90°F

B. Do not place concrete during rain, sleet, or snow unless protection is provided.

C. Reinforcing steel and forms shall be maintained at a temperature greater than 50°F.

D. Salts and other chemicals not permitted to prevent freezing.

1.05 STORAGE AND HANDLING

- A. Store and handle materials so as to insure the preservation of their quality and fitness for the work.

PART 2 - PRODUCTS

2.01 CONCRETE MATERIALS

- A. Cement - Portland Cement, Type II, ASTM C150
- B. Admixtures
 - 1. Air-entraining admixtures - conform to ASTM C260.
 - 2. Water-reducing, retarding, and accelerating admixtures - conform to ASTM C494.
- C. Water
 - 1. Mixing water for concrete - conform to ASTM C33.

- D. Aggregates
 - 1. Aggregates for normal weight concrete - conform to ASTM C33.
 - 2. Fine and coarse aggregates to be regarded as separate ingredients. Each size of coarse aggregate, as well as the combination of sizes when two or more are used, to meet appropriate grading requirements of applicable ASTM specifications.
 - 3. Fine aggregate - natural sand, sand prepared from stone or gravel.
 - 4. Coarse aggregate - crushed stone or gravel having hard, strong, durable pieces, free from adherent coatings. Maximum size of the aggregate not to exceed one-fifth of the narrowest dimensions between sides of the forms, 1/3 depth of slabs, nor 3/4 of minimum clear distance between reinforcing bars or between bars and forms, whichever is least.

E. Proportioning

- 1. Compressive Strength - per following table:

<u>Typical Use</u>	<u>Required 28 day Compressive strength</u>	<u>Min. Cement Content (bags)</u>	<u>Maximum Water Cement Ratio</u>	<u>Maximum Slump (in)</u>
a. General Purpose Structural	4,000 psi	6.5 bags	0.35	5"
b. Footings & Pipe Supports	3,000 psi	6.0 bags	0.46	4"

- 2. Weight - Normal.
- 3. Durability - All concrete to be air-entrained, 7% by volume + 1%.
- 4. Do not use admixtures other than air-entraining admixture unless specified or approved in writing by the Owner.

2.02 REINFORCEMENT

- A. Bar Reinforcement: ASTM A 615, Grade 60, deformed.

- B. Fabric Reinforcement: ASTM A 185 welded wire fabric, fabricated into flat sheets unless otherwise indicated.
- C. Metal Bar Supports: Galvanized or AISI Type 430 stainless steel, and without plastic tips.
- D. Tie Wire: Black annealed wire, 19 gauge minimum (1.57 mm).

2.03 FORMS

- A. Conform to ACI 347.
- B. Lumber:
 - 1. Free from knots, holes or other defects.
 - 2. For exposed surfaces, shall be surfaced on both sides and both edges shall be sized to uniform thickness.
- C. Plywood:
 - 1. Exterior type softwood plywood.
 - 2. Surface grade - B-B.
- D. Steel:
 - 1. Forms shall be removable.
 - 2. Provide for smooth joints.
- E. Form coatings:
 - 1. Non-staining.
 - 2. Pine oil, synthetic resin or other approved equal.

2.04 EXPANSION JOINT FILLER

- A. Preformed, resilient, non-extruding, cork units, ASTM D 1752, Type II.

2.05 CURING MATERIALS

- A. White opaque polyethylene film.
- B. Water proofed paper.
- C. Liquid membrane as approved by the Engineer.

2.06 WATERSTOPS

- A. Material: Neoprene
- B. Standards: ASTM D-412
- C. Type: Dumbbell with center bulb
- D. Size: 6 inch x 1/4 inch thickness

E. Use fabricated fittings

F. Construction Gaskets, Inc., Williams Products Co., or equal.

PART 3 - EXECUTION

3.01 REINFORCEMENT INSTALLATION

A. Placement:

1. Ear Supports - CRSI 65.
2. Reinforcing Bars - CRSI 63.

B. Allowable Tolerances

1. Fabrication:

- a. Sheared length - ± 1 inch
- b. Stirrups and ties - $\pm 1/2$ inch
- c. Other bends - ± 1 inch

2. Placement:

- a. Concrete cover to form surfaces - $\pm 1/4$ inch
- b. Minimum spacing between bars - $\pm 1 1/4$ inch
- c. Top bars in slabs and beams - $\pm 1/4$ inch
- d. Maximum bar movement to avoid interference with other reinforcing steel, conduits or embedded items - 1 bar diameter.

C. Steel adjustment:

1. Move within allowable tolerances to avoid interference with other reinforcing steel, conduits or embedded items.
2. Do not move bars beyond allowable tolerances without concurrence of the Engineer.
3. Do not heat, bend or cut bars without concurrence of the Engineer.

D. Splices:

1. Lap splices - tie securely with wire to prevent displacement of splices during placement of concrete.
2. Splice devices - install in accordance with manufacturer's written instructions.
3. Welding - perform in accordance with AWS D1.4.
4. Do not splice bars except at locations shown on drawings without concurrence of the Engineer.
5. Do not make end laps midway between supporting beams, or directly over beams of continuous structures.
6. Offset end laps in adjacent widths to prevent continuous laps.

E. Wire Fabric:

1. Install in longest practicable length.
2. Lap adjoining pieces one full mesh minimum, and lay splices with 16 gage wire.
4. Do not make end laps midway between supporting beams, or directly over beams of continuous structures.
5. Offset end laps in adjacent widths to prevent continuous laps.

- F. Cleaning:
 - 1. Remove dirt, grease, oil, loose mill scale, excessive rust, and foreign matter that will reduce bond with concrete.
- G. Protection during concreting:
 - 1. Keep reinforcing steel in proper position during concrete placement.

3.02 FORM DETAILS

- A. Construct and maintain forms to eliminate leakage or the formation of joints due to shrinkage of the lumber.
- B. Place suitable fillets in all pockets and corners where solids can accumulate, as well as in all bottom corners of channels.
- D. Design forms for a fluid pressure of one hundred fifty (150) pounds per cubic foot and an additional live load of fifty (50) pounds per square foot on horizontal surfaces.
- E. Construct forms for such neat inside dimensions that the resulting structure will conform accurately to the drawings.
- F. Forms to be rigid so that no deflection or distortion will occur when the concrete is placed.
- G. Apply form oil and release agents prior to placing reinforcing steel.
- H. Thoroughly wet dry forms and allow to swell (except in freezing weather), before concrete is placed.
- I. Use metal form spreaders and ties so arranged that when forms are removed, no metal shall be within one (1) inch of any surface.
- J. Do not place concrete until forms are entirely completed, centered, and braced.
- K. Do not disturb forms until the concrete has adequately hardened. Do not remove shoring or bracing until the member has acquired sufficient strength to support its weight and the load on it.
- L. Minimum period of 48 hours from end of pour to form removal.
- M. Design and construct forms with thought to their removal with a minimum of danger to the concrete.
- N. Do not place metal tools against the concrete to wedge forms loose; use wooden wedges and start stripping at some distance away and move toward corner projections.

3.03 JOINTS AND EMBEDDED ITEMS

- A. Construct joints and install embedded items as shown on the drawing or as approved by the engineer.
- B. All reinforcement to be continuous across joints except for isolation joints.
- C. Install longitudinal keys at least 1-1/2 inches deep at joints in walls and between walls and slabs or footings.
- D. Each piece of premolded waterstop to be maximum practicable length to minimize the number of end joints.
- E. Waterstop joints to develop effective watertightness fully equal to that of the continuous waterstop material.
- F. All waterstops, sleeves, inserts, anchors and other embedded items to be placed prior to concreting. Position accurately and support against displacement.

3.04 INSPECTION PRIOR TO CONCRETE PLACEMENT

- A. Assure that excavations and formwork are completed, and that ice and excess water are removed.
- B. Check that reinforcement is secured in place.
- C. Verify that reinforcement, waterstops, expansion joint material, anchors and other embedded items are secured in position.

3.05 PLACING CONCRETE

- A. Keep excavations free of water. Do not deposit concrete in water.
- B. Set concrete, reinforcement, forms and earth which will be in contact with fresh concrete shall be free from frost at the time of concrete placement.
- C. Conveying and Placing:
 - 1. Convey concrete from mixer to final position by method which will prevent separation or loss of material.
 - 2. Maximum height of concrete free fall 5 feet.
 - 3. Regulate rate of placement so concrete remains plastic and flows in to position.
 - 4. Deposit concrete in continuous operation until panel or section is completed.
 - 5. Place concrete in horizontal layers 18 inches maximum thickness.
- D. Consolidating concrete:
 - 1. Use mechanical vibrating equipment for consolidation, min 7000 rpm.
 - 2. Do not use vibrators to transport concrete in forms.

3.06 CURING

- A. Keep concrete moist by use of polyethylene film, water proofed paper, or curing compounds.
- B. Maintain concrete within 40°F to 90°F temperature range while curing.
- C. Continue curing for seven (7) days.

3.07 FINISHING OF FORMED SURFACES

- A. Except where indicated otherwise on the drawings, provide the finishes below:
 - 1. Rough form finish for concrete surfaces not exposed to view.
 - 2. Grind and rub finish for concrete surfaces exposed to view.
 - 3. Patch all tie holes before backfilling.
 - 4. Float tops.
- B. Finishing, General: Provide monolithic finishes on concrete floors and slabs without the addition of mortar or other filler material. Finish surfaces in true planes, true to line, with particular care taken during screeding to maintain an excess of concrete in front of the screed so as to prevent low spots. Screed and darby concrete to true planes while plastic and before free water rises to the surfaces. Do not perform finishing operations during the time free water (bleeding) is on the surface.
- C. Finishing:
 - 1. Formed concrete:
 - a. Tops of forms:
 - 1. Strike concrete smooth at tops of forms.
 - 2. Float to texture comparable to formed surfaces.
 - b. Formed surfaces:
 - 1. As-cast finish.
 - 2. Patch tie holes and defects after form removal.
 - 3. Remove fins from surfaces.
 - 2. Flatwork:
 - a. General:
 - 1. Strike and level concrete.
 - 2. Do not work surface until ready for floating.
 - 3. Power float surface on disappearance of water sheen.
 - 4. Hand float areas inaccessible to power float.
 - b. Troweled finish:
 - 1. Power trowel surface to smooth finish.
 - 2. Hand trowel areas inaccessible to power trowel.
 - c. Broom or belt finish; draw broom or burlap belt across concrete surface after floating.

3. Rubbing:

- a. Patch surface immediately after forms are removed.
- b. Complete rubbing no later than 24 hours following form removal.
- c. Wet surfaces and rub with carborundum brick or other abrasive until a uniform color and texture is produced.
- d. Use no cement grout or slush other than the cement paste drawn from the green concrete by the rubbing process.

D. FINISH SCHEDULE

1. Concrete walkways and floors - smooth uniform float, steel trowel and wet brush finish, except floors to receive asphalt tile shall have hard steel trowel finish.
2. Outside walks as above except stiff broom finish.
3. Concrete steps shall have smooth float sand finish, exterior shall have carborundum grits troweled into the surface for a non-slip texture.
4. Rubbed walls:
 - a. Building exterior walls to 6 inches below finish grade.
 - b. Building all interior walls.
 - c. Exterior tank and basin walls to 6 inches below finish grade.
 - d. Interior tank and basin walls to 6 inches below waterline.

3.08 REPAIR OF CONCRETE SURFACE DEFECTS

A. Preparation:

1. Remove all honeycombed and other defective concrete down to sound concrete.
2. The area to be patched and an area at least 6 inches wide surrounding it shall be dampened to prevent absorption of water from the patching mortar.
3. Prepare a bonding grout using a mix of approximately 1 part cement to 1 part fine sand passing a No. 30 mesh sieve; mix to the consistency of thick cream, and then brush well into the surface.

B. Patching mixture:

1. Prepare the patching mixture of the same material and of approximately the same proportions as used for the concrete, except that the coarse aggregate shall be omitted and the mortar shall consist of not more than 1 part cement to 2-1/2 parts sand by damp loose volume.
2. White portland cement shall be substituted for a part of the gray portland cement on exposed concrete in order to produce a color matching the color of the surrounding concrete, as determined by a trial patch.
3. The quantity of mixing water shall not be more than necessary for handling and placing.
4. Mix the patching mortar in advance and allow to stand with frequent manipulation with a trowel, without addition of water, until it has reached the stiffest consistency that will permit placing.

C. Method:

1. After surface water has evaporated from the area to be patched, brush the bond coat well into the surface.
2. When the bond coat begins to lose the water sheen, apply the premixed patching mortar.
3. The mortar shall be thoroughly consolidated into place and struck off so as to leave the patch slightly higher than the surrounding surface.
4. To permit initial shrinkage, it shall be left undisturbed for at least 1 hour before being finally finished.
5. The patched area shall be kept damp for 7 days.
6. Metal tools shall not be used in finishing a patch in a formed wall which will be exposed.

END OF SECTION

SECTION 05521

PIPE & TUBE RAILINGS

PART 1 - GENERAL

1.01 DESCRIPTION

- A. Construct safety railing around the concrete leachate collection basins.
- B. Meet requirements of Occupational and Safety Health Act (OSHA).

1.02 SUBMITTALS

- A. Shop Drawings:
 - 1. Submit shop drawings for all railings, including splices and attachments.
 - 2. Identify location and type indicated.
 - 3. Indicate railings in related and dimensional position with elevations at scale.
 - 4. Indicate all required field measurements.

1.03 PRODUCT DELIVER, STORAGE AND HANDLING

- A. Deliver, store and handle components in such manner as to prevent damage to finished surfaces.
 - 1. Cover stored materials with waterproof paper, tarpaulin or polyethylene sheeting.

1.04 CERTIFICATION

- A. Furnish certificate stating that pipe meets requirements of specifications.

PART 2 - PRODUCTS

2.01 PIPE

- A. Schedule 40, Carbon Steel, ASTM A53.

2.02 FITTINGS

- A. Types:
 - 1. Threaded
 - 2. Welded
 - 3. Slip on with set screws

2.03 FINISH

- A. Iron and Steel
 - 1. Galvanized: ASTM A 385 and ASTM A 123
 - 2. Paint: Same as interior of concrete basins

2.04 FASTENINGS

- A. Expansion shields: FS FF-S-325
- B. Lag Bolts: FS FF-B-561
- C. Cement: Hydraulic, quick setting, ASTM C 595, factory prepared with accelerator.

2.08 FABRICATION

- A. Cut pipe square within 2° and to lengths within 1/8 inch (3mm).
- B. Remove burrs from cut edges.
- C. Form elbow bends to uniform radius, free from buckles and twists, with finished surfaces smooth.
- D. Locate intermediate rails midway between top rail and top of basin.
- E. Close exposed ends of steel pipe by welding 3/16 inch thick steel plate in place or use prefabricated fittings.
- F. Where posts set into concrete, furnish 4 inches long matching sleeves.
- G. Welding:
 - 1. Miter and cope intersections of posts and rails with 2°, fit to within 0.02 in. and weld all around.
 - 2. Thoroughly fuse without undercutting or overlap.
 - 3. Remove splatter, grind exposed welds to blend and contour surfaces to match those adjacent.
 - 4. Discoloration of finished surfaces will not be acceptable.
- H. Provide explosion prevention holes at closed ends of pipes.

PART 3 - EXECUTION

3.01 INSTALLATION

- A. Drill holes 4 inch deep in concrete, for posts.
- B. Coat ends of posts to be set in grout with asphaltic paint.
- C. Setting posts:
 - 1. Clean dust and foreign matter from sleeves.
 - 2. Moisten interior of hole and surrounding surface with clean water.
 - 3. Mix cement with water and stir until a smooth, creamy consistency is produced.
 - 4. Pour mixture into annular space until it overflows the hole.
 - 5. Wipe off excess and leave 1/8 inch (3mm) build-up, sloped away from post.
 - 6. Brace railing until grout sets.

- D. Set posts plumb and aligned to within 1/8 inch in 12 feet.
- E. Set rails horizontal or parallel to top of basin to within 1/8 inch in 12 feet.
- F. Assemble and install in accordance with printed instructions of the manufacturer.
- G. Expansion Joints
 - 1. Provide at intervals of not more than 40 feet on centers.
 - 2. Provide slip joints with internal sleeve extending 2 in. (50 mm) beyond each side of the joint.
 - 3. Fasten to one side using either adhesive or 2 blind rivets, set at 120° and 240° interval from top of pipe.
 - 4. Locate joints within 12 inches of posts.

3.02 CLEANING

- A. Wash thoroughly using clean water and soap; rinse with clean water.
- B. Do not use acid solution, steel wool or other harsh abrasive.
- C. If stain remains after washing, remove finish and restore in accordance with recommendations of fabricator.

3.03 TREATMENT OF FIELD WELDS:

- A. Touch up welds by application of 2 coats of high zinc dust content paint to dry film thickness 2 mils.

3.04 REPAIR OF DEFECTIVE WORK:

- A. Remove stained or otherwise defective work and replace with material that meets specification requirements.

END OF SECTION

SECTION 13120

PRE-ENGINEERED POLE TYPE BUILDING

PART 1 - GENERAL

1.01 DESCRIPTION

- A. All labor, materials, and equipment necessary to furnish, erect and construct the building shown on the drawings, specified herein, or normally installed as standard by the industry or manufacturer for a complete structure.
- B. These specifications are considered minimum standards to be met by the Contractor.
- C. Contractor is responsible for following all building codes and laws covering the work to be performed.
- D. Contractor is responsible for all materials, whether supplied by him, a subcontractor, or other vendor.
- E. The Drawings are furnished to indicate the intent of the Owner as to type and layout of building construction desired. Dimensions shown on the Drawings are not to be changed without approval of the Owner.

1.02 QUALITY ASSURANCE

- A. Pre-engineered building manufacturer shall have 5 years experience in designing and erecting structures of comparable size and quality. The manufacturer shall supply 5 references of completed comparable buildings.
- B. Conform to all applicable standards of latest revision including but not limited to the following:
 - 1. National Design Specification for Wood Construction for design of wood members.
 - 2. Truss Plate Institute's Design Specification for Metal Plate Connected Wood Trusses (TPI-78) for light metal toothed connector plates and joint design.
 - 3. American Wood Preserver's Association (AWPA) Specifications for pressure treatment of wood.

1.03 WARRANTY

- A. The Contractor shall supply a warranty from the manufacturer to the Owner, which shall provide that the manufacturer will:
 - 1. For a period of 5 years to repair, or in its discretion, to replace free of charge the building framework, including doors and roofing or side panels, if directly damaged by wind loads, unless damage is caused by flying or falling objects.
 - 2. For a period of 1 year to repair other building parts that prove to be defective in materials or workmanship.

- B. In addition to above warranty, Contractor shall be responsible for a one year guarantee on all materials and workmanship as specified in the General Conditions.

1.04 SUBMITTALS

- A. Bidders shall submit with their proposal manufacturer's brochures and literature including color charts on the building which forms the basis for their proposal along with sample plans and specifications for comparable buildings.
- B. Prior to shipment of materials or starting construction, Contractor shall submit to the Owner for review and evaluation three complete sets of plans and specifications for the building. These plans and specifications shall bear the seal of a Professional Engineer, registered in the state of New York and specifically certifying the following:
 - 1. Design, plans and specifications conform to New York State Uniform Fire and Building Code (NYS UFBC).
 - 2. Building meets these specifications.
 - 3. Structural Design of the building meets minimum requirements of 30 pounds per square foot live roof load and minimum wind load per NYS UFBC.
- C. Submit with Plans and Specifications the Design calculations for the building, which shall also bear the seal of a Professional Engineer registered in New York State, including foundation design and information on soil bearing capacity.
- D. A letter of certification from the wood preserver shall be furnished which certifies the .8pcf preservative retention of treated lumber for a 0 to .75" assay zone.

PART 2 - PRODUCTS

2.01 TREATED TIMBER COLUMNS

- A. Structural nail laminated timber columns shall be No. 1 or better southern yellow pine, kiln dried to 19% moisture content.
- B. All lumber shall be pressure treated with a wood preservative to a retention of .8 pounds per cubic foot and kiln dried after treating to 19% maximum moisture content. Wood preservative shall be Chromated Copper Arsenate Type III, Oxide Type; or equal as listed in Federal Specification TT-W-571J. Preservative shall penetrate 100% of the sapwood.
- C. The treated portion of the column embedded in ground shall be laminated with stainless steel nails or equivalent.

2.02 SPLASHBOARDS/SKIRT PLANKING

- A. Splashboards/skirt planking shall be No. 2 or better southern yellow pine 2" x 8" S2S and center matched.
- B. Pressure treated to a net retention of .4 pounds per cubic foot with Chromated Copper Arsenate Type III, Oxide Type, or equivalent, in accordance with American Wood Preservers' Association Specification C2.
- C. They shall be kiln dried before and after treating to 19% maximum moisture content.

2.03 WOOD TRUSS DESIGN SPECIFICATIONS

- A. All lumber used in the design of wood trusses must be kiln dried and graded in accordance with the current grading rules. Pressure treat same as 2.02 SPLASHBOARDS/SKIRT PLANKING.
- B. Design stresses allowed are those listed in the current editions of respective lumber association's grading rules.
- C. The design of wood members must be in accordance with the formulas published in the latest edition of the National Design Specification For Wood Construction.
- D. Light metal toothed connector plates and joint design must conform to specifications as set out in the latest edition of TRUSS PLATE INSTITUTE'S Design Specification for Metal Plate Connected Wood Trusses (TPI-78).
- E. Truss members and joints must be designed in accordance with TPI-78. All truss designs must be accompanied by complete and accurate shop drawings, and the engineering analysis and design data containing the following information:
 - 1. Slope or depth, span and spacing of the truss.
 - 2. Heel bearing width.
 - 3. Design loading to include, as applicable:
 - a. Top chord live load
 - b. Top chord dead load
 - c. Bottom chord live load
 - d. Bottom chord dead load
 - e. Concentrated loads and their points
 - 4. Adjustment to lumber and plate design values for conditions of use.
 - 5. Engineering analysis showing the determination of both axial forces and bending moments for each member.
 - 6. Each reaction force.
 - 7. Plate type, thickness of guage, size, basic plate design value, the dimensioned location of each plate and a design analysis of each joint showing that proper plates have been used.
 - 8. Lumber size, species, and grade for each member.

2.04 FRAMING LUMBER

- A. Side nailers or girts shall be 2" x 4" SPF 2100 MSR (min.) spaced on 24" o.c., with all joints staggered at attachment to timber columns.
- B. Roof purlins to be 2" x 4" #2 SPF or better (min.) on edge, spaced on 24" (max.) centers.
- C. Continuous 2" x 4" (min) truss ties shall be provided for the length of the building.
- D. All other framing lumber shall be standard grade or better. All lumber shall be free of warping, twisting, or splitting and shall be pressure treated the same as 2.02 SPASHOARDS/SKIRT FLANKING.

2.05 ROOFING AND SIDING

- A. Roofing/siding shall be flexible, corrugated sheets manufactured from processed mineral and organic fibers which are totally impregnated with asphalt.
- B. Vinyl base colors shall be baked into the material during the manufacturing process.
- C. Roofing/siding shall be corrosion resistant, impervious to rot and fungus, insect and rodent proof.
- D. Standard sheet thickness: 1/8"
- E. Corrugations shall be designed with sufficient strength for wind and snow loading conditions.
- F. Siding/roofing sheets shall be fastened to building frame with EPDM washered corrosion resistant ring shank nails, 3 inches long.

2.06 SKYLIGHTS

- A. Skylights shall be PVC transparent sheets having same dimensions and corrugation sizes as siding/roofing. 66 to be provided.
- B. Minimum sheet thickness: 3/64".

2.07 TRIM

- A. Trim for corners shall be from the same quality material as the roofing/siding panels.
- B. Trim Boards for fascia, rake, rake cap shall be pressure treated lumber of same quality as framing lumber, but shall be selected pieces.

2.08 VENTILATION

- A. Continuous ridge ventilator shall be used at ridge of building in conjunction with a roof overhang on each side.
- B. Soffit and ridge ventilator to have equal amount of free air opening and installed with proper filler strips and connectors.

2.09 SERVICE DOORS AND ACCESSORIES

A. Door

- 1. Door slab to be a laminated sandwich of expanded polystyrene foam and steel.
- 2. Foam core to have a density of 1.00 lbs. per cubic foot and surrounding on four edges by wood stiles and rails, with an additional wood block as lock reinforcement.
- 3. Steel skins to be formed on edges to produce a thermal break to prevent thermal transmission from cold side to warm side.
- 4. The steel shall be 0.0242 thickness with both surfaces zinc galvanized and bonderized, and painted with a White enamel.
- 5. Top and bottom edges of door slab shall be turned back for additional rigidity and bottom edge to be covered with unextruded vinyl cap with three sealing tubes.

B. Hinges

- 1. Swing-out hinges for doors shall be 1-1/2 pair, round corner 4-1/2" x 4-1/2" butt hinges, with non-removable pin.
- 2. The hinges to be galvanized and painted with a White enamel.

C. Frames

- 1. Weatherstripped steel frames shall be designed in three inter-connecting pieces.
- 2. Frame shall be made of 18 gauge electro-galvanized, cold rolled steel, and painted.
- 3. Head and lock jambs shall be furnished with flexible, commercial grade magnetic weatherstrip, and the hinge jamb shall be fitted with compression weatherstrip.

D. Sill/Threshold

- 1. Sill to be constructed of extruded no-skid aluminum with wood supporting members in the sill cavity for extra support across the entry.
- 2. There shall be an adjustable threshold with positive adjustment up or down.

E. Glass

- 1. Door shall have a glass size of 22" x 36".
- 2. To be tempered to conform to safety regulations.
- 3. The one piece trim around the door light shall be injection molded of heat resistant, high performance virgin plastic.

F. Lock System

1. Each door shall receive a Dexter, Mark 76, double safe lock or equal.
2. Lock system shall have a heavy-duty 1" throw upper deadbolt and lower bolt that simultaneously retract when the inside door knob is turned in either direction.
3. Lock to be keyed same as other landfill building door locks.

G. Exit panic, exterior operation

1. Each exterior door shall have a flush mounted heavy duty reversible rim type exit panic device.
2. Horizontal push bar shall be wrought steel channels, latch bolts of brass extrusion, nylon bearings, and stainless steel springs.
3. Each device shall have a single point 1/4 turn dogging device to lock cross bar in an open position.
4. Each to have a key lock pull knob on exterior. Device and pull knob to have SBL aluminum finish.
5. Each door shall have reversible deadlock with solid steel components of 1" hardened steel deadbolt, steel cylinders housing, guard steel reinforcing rings, backing plants, and hardened steel thru-bolts.
6. Deadlock function shall be turn piece inside and key outside, keyed same as panic device.

PART 3 - EXECUTION

3.01 GENERAL

- A. Do not utilize or install defective materials.
- B. Construct building in workmanlike manner to required lines and elevations. All members and units to be plumb and true. Accurately cut and fit materials. Securely fasten all work.

3.02 FOOTINGS AND ANCHORAGE

- A. Excavate to required line and grade for placement of foundation as specified in Section 02200. Timber columns shall have a minimum 4'-0" bury.
- B. Construct building in workmanlike manner to required lines and elevations. All members and units to be plumb and true. Accurately cut and fit materials. Securely fasten all work.

3.02 FOOTINGS AND ANCHORAGE

- A. Excavate to required line and grade for placement of foundation as specified in Section 02200. Timber columns shall have a minimum 4'-0" bury.
- B. Construct appropriate size foundation pads of concrete having a minimum compressive strength of 3,000 pounds or as specified in approved design and shop drawings.

- C. Allow concrete to dry a minimum of 72 hours prior to installation of columns.
- D. Two galvanized steel angle base anchors are placed 3" from bottom of each column.
- E. When column is accurately positioned in the hold, place additional concrete mix around base of column.
- F. Backfill hole with suitable material as specified in Section G2200 making certain that soil is at proper moisture content.

3.03 WOOD FRAMING

- A. Construct framing of members having nominal or built-up size equal to those required by plans, specifications, or approved shop drawings.
- B. Apply heavy coat of wood treatment preservative to all field cut ends.
- C. Provide all required openings and reinforce framing members as necessary to carry the loads without excess stress.
- D. Splices will only be permitted over a support.
- E. Attach all members as indicated or as required by the various codes of representative manufacturers associations.
- F. Comply with N.F.P.A. recommendations as appropriate.
- G. Erect framing at spacing shown and attach wing nails, bolts, screws, or metal connectors per approved drawings.
- H. Provide sufficient bearing and support for all members.
- I. Provide and install 0.035" x 1-1/4" high tensile steel diagonal, X-bracing or equal in all corners. Include lateral truss ties and end bracing as necessary.
- J. Provide and install all miscellaneous blocking, framing, and nailers to sizes and shapes required for attachment and support of facing materials, fixtures, specialty items, and trim.
- K. Use closure strips at all edges or as necessary.
- L. Install wood furring plumb and level within a tolerance of 1/8" in 10 feet. Shim if required. Attach to wood framing or nailers where required.

3.04 ROOFING/SIDING

- A. Install siding and roofing plumb and square with building frame, attaching it to building frame, furring, and nailers using EPDM washered ring shank nails per manufacturer's instructions.

- B. Measure, cut and trim in workmanlike manner to maximize panel size.
- C. Lay sheets to take into account the prevailing winds from south and west and overlap side sheets accordingly. One corrugation overlap is sufficient.
- D. Drive nails only through the top of corrugations. Drive nails perpendicular to purlins or girts so that the rubber washer is snugly in contact with the sheet. Don't overdrive or underdrive nails. Use a minimum of 20 nails per sheet.
- E. ~~Install~~
- F. ~~Install~~ trim
- G. Use closure strips integrity of building.

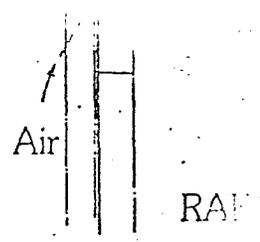
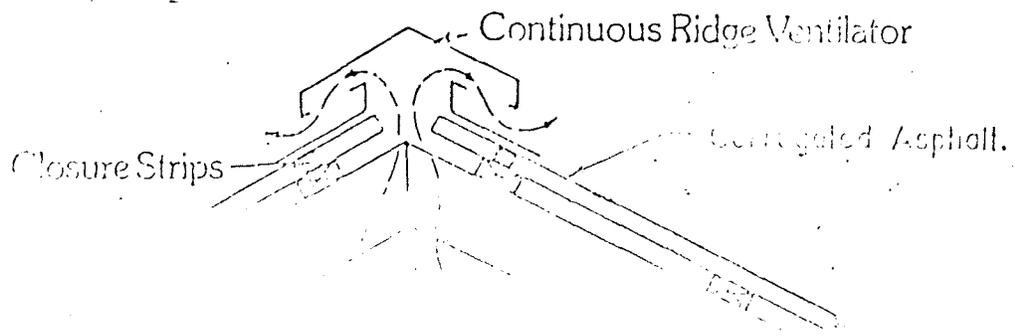
3.05 DOORS

- A. Provide proper openings for installation of doors.
- B. Install doors plumb and level to insure proper and free operation without binding. Shim as required.
- C. Attach frames securely to building.
- D. Use caulk or sealants.

3.07 MISCELLANEOUS

- A. Install all vents, soffits, rakes and trim as shown on drawings.

END OF SECTION



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ing

NOTE: SIDING SHOULD NOT COME INTO DIRECT CONTACT WITH ROOFING. REFER TO MANUFACTURER'S INSTRUCTION FOR PROPER INSTALLATION.

NOT *J. Margen*

APPROVED

PUBLIC WORKS COMMITTEE MEETING
APRIL 20, 1987

APR 22 1987

PRESENT: M. Allen B. Hitchcock F. Kelley
 M. Mogavero L. Watson J. Hopkins
 C. Wentworth W. Hanson J. Dickenson
 A. Sylor D. Roeske J. Baker

AGENDA: 1) Approval of minutes of April 6, 1987
 2) Audit
 3) Solid Waste
 4) C.R.-35 Report
 5) Material bid awards
 6) Tire Changer bid award
 7) Trailer award
 8) Bid opening - C.R.-43 bridge
 9) Bid opening - leachate tanks

The meeting was called to order at 8:30 A.M. by Chairman Allen.

Minutes of the previous meeting were approved, motion by Mr. Sylor; seconded by Mr. Hitchcock. Carried

Approval of the bills motion by Mr. Wentworth; seconded by Mr. Hitchcock. Carried

Bids were opened for the rehabilitation of Bridge #7-3, County Route 43, Town of Angelica.

Silverline Construction Company	\$227,804.25
L.C. Whitford Company	\$284,102.06
A.L. Blades & Sons	\$319,027.00

The meeting was adjourned at 9:10 A.M. for an Attorney-Client Conference-Executive Session.

The meeting was called back to order at 9:15 A.M.

Mr. Kelley discussed the memorandum sent to the towns and villages regarding certain wastes as reviewed by the committee at the April 6th meeting. It was noted that some comments are being received from the towns.

Mr. Kelley reported that the grants for both the leachate treatment facility and the recycling program look favorable.

Mr. Roeske gave a report on the findings in regards to the tag trailer situation. Trailers as per bid specifications would be of comparable price to that of the low bidder. Motion to award tag trailer to low bidder made by Mr. Hitchcock; seconded by Mr. Mogavero. Carried

Motion to award bid of tire changer to the low bidder made by Mr. Mogavero; seconded by Mr. Sylor. Carried

Bids were opened for the construction of a concrete collection basin at the landfill. The following were received:

	Tank Construction	Tank Lining
L.C. Whitford Company	\$ 93,770.00	\$ 4,800.00
A.L. Blades & Sons	\$124,790.00	\$10,700.00

Mr. Hanson and Mr. Roeske explained a problem created by Houghton College. When a new dormitory was built, a large section of bank toe was removed from a bank supporting C.R. 35. A water line break activated a slippage of this bank causing the road to drop several inches. The highway division will continue to maintain this section with gravel fill until the college rectifies the problem.

Payment of additional utilities were approved. Motion by Mr. Mogavero; seconded by Mr. Allen. Carried

Mr. Hanson requested that the \$5,000 needed for landscape work at the front of the Courthouse be referred to the Ways and Means Committee. The money can not be taken from Repair Reserve Fund. Motion by Mr. Hitchcock; seconded by Mr. Mogavero. Carried

Bid awards were made on materials items as follows:

- Item #1 - Culvert pipe and bands: Motion made to accept low bid by Mr. Sylor; seconded by Mr. Hitchcock. Carried
- Item #2 - Guide rail and posts: Motion to accept low bid by Mr. Mogavero; seconded by Mr. Wentworth. Carried
- Item #3 - Steel: Motion made to accept low bid by Mr. Mogavero; seconded by Mr. Sylor. Carried
- Item #4 - Crushed stone and sand: Motion made to accept all bids except Gernalt, Inc. by Mr. Sylor; seconded by Mr. Hitchcock. Carried
- Item #5 - Sign blanks and posts: Motion made to accept low bid by Mr. Sylor; seconded by Mr. Wentworth. Carried

Item # 6 - Bituminous Material: Held until May 4th, 1987.

Item # 7 - 1311 Calcium Chloride/Sodium Chloride Brine:
Motion made to accept low bid by Mr. Saylor; seconded
by Mr. Hitchcock. Carried

Item # 9 - Motor Oil and Hydraulic Oil: Motion made to reject
all bids and to re-bid because of incomplete bids.
Moved by Mr. Allen; seconded by Mr. Wentworth. Carried

Item #11 - Calcium Chloride Solution: Motion made to accept low
bid by Mr. Hitchcock; seconded by Mr. Saylor. Carried

Motion to go into Executive Session to discuss contractual item
at 11:10 A.M., moved by Mr. Hitchcock; seconded by Mr. Wentworth. Carried

The meeting reconvened at 11:40 A.M.

The meeting was adjourned at 11:41 A.M. Motion by Mr. Hitchcock;
seconded by Mr. Wentworth. Carried

Respectively submitted,



David S. Roeske
Deputy Superintendent I

SR:bjh

NOT
APPROVED

J. Margeson
MAY 7 1987

PUBLIC WORKS COMMITTEE MEETING
MAY 4, 1987

PRESENT: M. Allen C. Wentworth F. Kelley
M. Mogavero L. Watson J. Dickenson
A. Sylor B. Hanson J. Baker
R. Hitchcock D. Roeske

- AGENDA:
- 1) Approval of minutes of April 20, 1987
 - 2) Audit
 - 3) Bid award on C.R.-43, Bridge
 - 4) Bid award on concrete tank for Solid Waste
 - 5) Motor oil bid opening
 - 6) Bid award on bituminous materials
 - 7) Overtime report for solid waste
 - 8) Status reports on CR-6, CR-20 & CR-35
 - 9) Resolution - supplemental agreement Bosford Hollow Bridge
 - 10) Resolution - transfer funds from interfund account to capital for CR-4 & CR-49 projects

The meeting was called to order at 8:35 A.M. by Chairman Allen.

Motion to approve the minutes of the April 20, 1987, meeting made by Mr. Sylor; seconded by Mr. Hitchcock. Carried

Mr. Kelley reported on the bids for a a concrete leachate collection tank. He passed out the results (see attached). Motion to award to low bidder, L.C. Whitford Company of Wellsville, NY by Mr. Allen; seconded by Mr. Wentworth. Carried

Mr. Kelley gave a short status report on the construction at the landfill. Start-up is still scheduled for June 15, 1987.

Mr. Allen asked about the advertised spring clean-up in the Village of Wellsville. Mr. Kelley stated, that this is a regular quarterly clean-up and there is no great impact on the system.

Mr. Kelley asked the committee to approve a maintenance agreement for the scales at the landfill. The cost for the yearly inspection would be \$35 per year. Motion to approve this agreement made by Mr. Mogavero; seconded by Mr. Wentworth. Carried

Mr. Kelley reviewed a letter regarding resource recovery (see attached). Mr. Kelley would like to experiment with two stations to evaluate public response and feasibility. Motion to allow Mr. Kelley to proceed made by Mr. Mogavero; seconded by Mr. Hitchcock. Carried

Mr. Kelley presented his report on overtime as requested by Mr. Sylor (see attached). The committee shall review the report and discuss it at the next meeting.

Mr. Kelley reported on the status of the recycling grant and the NYSERTA grant for leachate treatment. (See statement attached.)

Motion to adjourn to executive session for attorney-client conference at 9:15 A.M. by Mr. Mogavero; seconded by Mr. Hitchcock. Carried

Motion to reconvene at 9:25 made by Mr. Sylor; seconded by Mr. Mogavero. Carried

Bids were opened for motor oil and hydraulic oil. The following are bids received:

Kendall Oil Company	Bradford, PA
Shorts Oil Company	Wellsville, NY
Sandburg Oil Company	Olean, NY

Award is scheduled for 11:00 A.M. on May 11, 1987.

Motion to award the rehabilitation of County bridge 7-3, County Road 43, Town of Angelica, to the low bidder, Silverline Construction Company by Mr. Sylor; seconded by Mr. Wentworth. Carried

Mr. Roeske gave a brief status report on the County Route 6 re-alignment, County Route 20 re-alignment, and the slide problem on County Route 35.

Mr. Hanson requested approval to send two employees to Highway School at Cornell (Gene Bledsoe, General Supervisor and Gregory Schnurle, Junior Engineer). Motion made by Mr. Sylor; seconded by Mr. Wentworth to approve the request. Carried

Mr. Hanson requested a Resolution be prepared to move money from an Interfund Transfer Account to establish Capital accounts for projects on County Route 4 and County Route 49. Motion by Mr. Sylor; seconded by Mr. Mogavero. Carried

COUNTY ATTORNEY PREPARE RESOLUTION.

Mr. Hanson requested a transfer of \$150.00 from A 1490.405 to A 1490.409 to cover costs of an appraisal for County property in Scio. Motion made by Mr. Mogavero; seconded by Mr. Wentworth. Carried

Mr. Hanson requested a resolution be prepared for a supplemental agreement with the New York State Department of Transportation regarding increase of right-of-way for Bosford Hollow Bridge. Motion made by Mr. Sylor; seconded by Mr. Hitchcock. Carried.

COUNTY ATTORNEY PREPARE RESOLUTION.

Mr. Hanson reported on the Emergency Bridge inspection that was done by New York State Department of Transportation. Any bridge with serious problems will be reported. Mr. Hanson is relaying information to the towns regarding problems with any town bridge. Mr. Saylor requested copies of these reports for the committee. (Copy of memorandum attached.)

Bids on asphalt products were awarded to all bidders. Motion by Mr. Saylor. seconded by Mr. Hitchcock. Carried

Motion to approve the bills made by Mr. Mogavero; seconded by Mr. Wentworth. Carried

Meeting adjourned by Chairman Allen at 10:30 A.M.

Respectfully submitted,



David S. Roeske
Deputy Superintendent I
Division of Highways

DSR:bjh

Enc.



ALLEGANY COUNTY DEPARTMENT OF
PUBLIC WORKS

GARY J. ROBBINS
Superintendent

WILLIAM R. HANSON
Deputy Superintendent

ROOM 210 COUNTY OFFICE BUILDING BELMONT NEW YORK 14813
TELEPHONE 716 268 9270

5/4/87

We have just received notice that the joint proposal, for the "Landfill Leachate Research Project", between Tompkins and Allegany County, which was submitted to the New York State Energy Research and Development Authority has been accepted by them and will be funded this year.

The project will involve construction of an on site treatment system in both Counties and will study the "Root Zone Method" of treatment of leachate. This project has a total cost of \$608,000.00 and will be funded by New York State Energy Research and Development Authority, Cornell University, United States Geological Survey, Tompkins County and Allegany County.

Allegany County's share will be less than \$5,000.00 in direct costs.

We feel that the project could give Allegany County a viable leachate treatment system.



ALLEGANY COUNTY DEPARTMENT OF
PUBLIC WORKS

GARY J. ROBBINS
Superintendent

WILLIAM R. HANSON
Deputy Superintendent

ROOM 210 COUNTY OFFICE BUILDING BELMONT, NEW YORK 14813
TELEPHONE 716 265-9230

TO: TOWN HIGHWAY SUPERINTENDENTS

FROM: W.R. HANSON, SUPERINTENDENT-COUNTY DPW

RE: EMERGENCY FLOOD SAFETY CHECKS ON BRIDGES
SUBJECT TO EROSION

DATE: APRIL 24, 1987

New York State Department of Transportation was directed to perform emergency flood safety checks on bridges subject to erosion. These checks were requested as a result of the bridge failure on the Thruway. Bridges on the State, County and Town systems subject to erosion were checked in this County between April 9 and April 14, 1987. The work tasks included in this emergency inspection included:

- 1) Alignment, profile check
- 2) Probing
- 3) Documentation

Region 6, New York State Department of Transportation, Hornell New York completed item one (1) along with related documentation. One copy of these results is enclosed if you have a bridge that generated comments of concern.

Item two (2) along with related documentation will be completed by the State's consultants as soon as possible. When results of any probings are received by our office that you should be aware of, a copy of the results will be sent to you.

WRH:bjh

Enc.

J. Margeson

Special DPW Committee Meeting
May 11, 1987

MAY 12 1987

NOT
APPROVED

Present: M. Allen A. Sylor
C. Wentworth B. Hanson
M. Mogavero

The meeting was called to order at 11:10 A.M.

A summary of the motor oil bids and hydraulic oil bids was reviewed (see attached).

Motion by Mr. Mogavero to accept Short's Oil Company bids, seconded by Mr. Hitchcock. Carried

Mr. Hanson reviewed a proposed agreement that he wanted approved. (See attached copy.) He had no concern with the contents, and wanted to know if the DPW Committee did. No concerns were voiced.

The meeting was adjourned at 11:30 A.M.

W.R. Hansen

AGREEMENT

THIS AGREEMENT made this 30th day of April, 1987 by and between the COUNTY OF ALLEGANY, a municipal corporation created and existing under the laws of the State of New York and one of its political subdivisions, having its principal offices at (No Number) Court Street, Belmont, New York, acting by and through its Department of Public Works, hereinafter called the County, and the BOARD of COOPERATIVE EDUCATIONAL SERVICES of the Sole Supervisory District of Cattaraugus, Allegany, Erie and Wyoming Counties, an educational agency created under the laws of the State of New York, with office at (No Number) Windfall Road, Olean, New York, 14760, hereinafter called BOCES,

WITNESSETH:

WHEREAS, BOCES is the owner of certain premises situate in the Town of Amity, County of Allegany and State of New York, lying west of County Road 48 which premises contain gravel, and

WHEREAS, the County has a need for the gravel contained on such premises, and

WHEREAS, the parties wish to enter into an Agreement whereby the County may mine and remove gravel from said premises.

NOW THEREFORE, in consideration of the mutual covenants and agreements herein contained the parties hereto do agree as follows:

1. BOCES hereby leases to the County the premises situate in the Town of Amity, County of Allegany and State of New York located west of County Road 48 as more particularly set forth on a map prepared by the County dated May 14, 1985, a copy of which is annexed hereto and made a part hereof. The said premises are leased for the purpose of mining and removing gravel from said premises. This lease shall be for a term of Five (5) years from the date hereof.

2. The county shall be responsible for securing any required licenses, permits or other consents required by any federal or state agency to permit the mining and removal of gravel. The County shall also be responsible for the preparation and submission of any required environmental impact statements, reports or other documents required by any federal or state agency relating to the mining and removing of said gravel.

3. The County shall be permitted to construct and shall maintain a haul road across said premises running to County Road 48. The location and dimensions of said haul road must be approved

by BOCES prior to the construction of said road.

4. The County hereby agrees to hold harmless and indemnify BOCES for any and all loss or damage suffered by BOCES arising from any claim of cause of action against BOCES which occurs as a result of the operations of the County on the said premises under this Agreement, excepting any loss or damage suffered by BOCES arising from the torts of BOCES.

5. The County shall install at a point to be designated by BOCES a gate and appropriate fencing so that the road to the gravel pit area cannot be used by motorized vehicles by unauthorized personnel. Also signs shall be erected by the County indicating that the road is a private road and is for use only by authorized parties. The gate shall be kept locked when the road is not being used by the County and BOCES shall be provided with a key to the lock so that BOCES may use the road for its staff or other authorized parties at any time.

6. During the lease term of this Agreement, the County agrees to provide BOCES, upon request, for the use of BOCES, any of the mined material at the mining site needed by BOCES for its own use and not for resale. The County shall provide on site loading of such material requested on vehicles supplied by BOCES provided that County equipment is available on site to load such material. In the event County equipment is not available on site to load such material, BOCES shall have the right to remove with its own equipment and vehicles any of such mined material needed by BOCES. In the event that BOCES removes such material with its own machinery and equipment, BOCES agrees to hold harmless and indemnify the County for any and all loss or damage suffered by BOCES arising from any claim or cause of action against BOCES which occurs as the result of BOCES removal of such mined material by its own equipment and vehicles.

7. The County Superintendent of Public Works shall prepare and provide to the Public Works Committee of the Legislature by September 15th each year a written report summarizing the number of cubic yards of material mined and removed from the premises described herein and the total value of the material removed using the price of seventy-five (75) cents per cubic yard as the estimated value. The measure of value for the gravel shall be computed by the yard as loaded at the mine. The purpose of establishing a price for the mined material is to determine, apprise, and recognize the value of the material contributed by BOCES to Allegany County Department of Public Works. Upon delivery of the report by the Superintendent of Public Works to the Public Works Committee, the Committee agrees to report on the floor of the Legislature in public session, the value of the material removed and the fact that BOCES has contributed said material to the citizens of the County of Allegany. A copy of the report

MOTOR AND HYDRAULIC OIL BID ANALYSIS

Short's Oil Co.

15-40 Drum	1400 gals @ \$2.35/gal.	\$ 3,290.00
15-40 Bulk	2000 gals @ \$2.10/gal.	4,200.00
Hydraulic Oil	1600 gals @ \$2.00/gal.	3,200.00
Oil Samples	150 @ \$5.00 each	<u>750.00</u>
	Total:	<u>\$11,440.00</u>

Sandburg Oil Co.

15-40 Drum	1400 gals @ \$2.48/gal.	\$ 3,472.00
15-40 Bulk	2000 gals @ \$2.30/gal.	4,600.00
Hydraulic Oil	1600 gals @ \$1.90/gal.	3,040.00
Oil Samples	150 @ \$3.50 each	<u>525.00</u>
	Total:	<u>\$11,637.00</u>

Kendall Oil Co.

15-40 Drum	1400 gals. @ \$3.31/gal.	\$ 4,634.00
15-40 Bulk	2000 gals. @ \$2.46/gal.	4,920.00
Hydraulic Oil	1600 gals. @ \$3.18/gal.	5,088.00
Oil Samples	150 @ N/C	<u>- 0 -</u>
	Total:	<u>\$14,642.00</u>



PUBLIC WORKS COMMITTEE MEETING
MAY 18, 1987

PRESENT: M. Allen B. Hitchcock F. Kelley
 M. Mogavero B. Hanson J. Hopkins
 C. Wentworth D. Roeske J. Dickenson
 A. Saylor

- AGENDA: 1) Approval of minutes of May 4th and May 11th, 1987
 2) Audit
 3) Solid Waste
 4) DPW April Financial report
 5) Report - Students for Safety C.R. 12 (Elm Valley)
 6) Resolution - Amend Schedule A
 Local Bridge Bond Program

The meeting was called to order by Chairman Allen at 8:35 A.M.

Motion to approve the minutes of the previous meetings made by Mr. Mogavero; seconded by Mr. Wentworth. Carried

Committee discussed the current problems with bridges county wide. A plan of action should be formulated and a dollar cost attached. Different ideas as to how to handle the problem were discussed. Funding was the issue that the committee is most concerned with. The committee directed Mr. Hanson and Mr. Roeske to work out a program.

Mr. Kelley asked for questions concerning the report on overtime which was given out for review at the last meeting. The concern as to how overtime will be reduced was answered by Mr. Kelley. When the landfill is operating overtime will be reduced, the situation is temporary and dependent on the opening of the landfill.

Mr. Kelley gave a status report on construction. The site preparation is progressing smoothly. Work on the liner is starting and the pavement is being laid at entrance and parking area.

Dr. Schwert from the Alfred Tech addressed the committee with concerns of safety and maintenance of County Road 12. A study is being conducted by an Ad Hoc committee (see report in the Office the the Superintendent of Public Works). It has been suggested that the State should take-over maintenance of this highway. Also, emphasis is being given to orientation of students concerning County Road 12, its past problems, history of accidents, etc.

Mr. Kelley asked the committee to support a resolution that would commit the County to leachate treatment. This has been requested by New York State Department of Environmental Conservation to insure that the County would treat the leachate and not let the situation get out of hand. Motion by Mr. Hitchcock; seconded by Mr. Sylor. Carried

COUNTY ATTORNEY TO PREPARE DRAFT RESOLUTION

(For review at Public Works Committee Meeting on June 1, 1987.)

A determination must be made as to whether or not the County would accept ash from the incinerator. The ash would actually help with the leachate treatment by removing some heavy metals. A question on tipping fees was raised. Any fee charged would be reflected in the tipping fee at the incinerator. Motion made by Mr. Sylor; seconded by Mr. Wentworth that ash not be accepted at this time or until more information and experience is gained. 3 Yes 1 No Carried

Mr. Sylor asked if an area was available at the landfill for a construction materials landfill. Mr. Kelley responded to the question with a yes; but would the county be willing to construct such a landfill. The towns would have a much easier time getting permitted. The larger the entity, the greater the controls.

Mr. Kelley will have sludge handling cost by the next meeting.

Mr. Hanson passed out a financial report for the month of April.

Mr. Hanson requested a resolution to revise schedule A in regards to the Transportation Bond Act bridge schedule. The figures must be revised to reflect the actual cost of construction vs. the estimate. Motion by Mr. Sylor; seconded by Mr. Wentworth. Carried.

COUNTY ATTORNEY PREPARE RESOLUTION

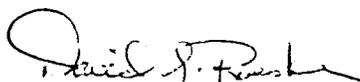
Mr. Hanson reported that a Mr. Ray Byington would like to purchase approximately 6 acres of the old B & S railroad bed. Mr. Hanson will get a cost appraisal from John McGranahan.

Mr. Hanson requested an interfund transfer. \$200 to be moved from E5130.408 to E 5130.401. Motion by Mr. Hitchcock; seconded by Mr. Sylor. Carried

Motion to approve payment of the bills made by Mr. Hitchcock; seconded by Mr. Sylor. Carried

Motion to adjourn made by Mr. Allen; seconded by Mr. Wentworth. Carried
Meeting adjourned at 11:30 A.M.

Respectfully submitted,



David S. Roeske
Deputy Superintendent I

Motion to reconvene to the regular session at 9:50 A.M. made by Mr. Wentworth; seconded by Mr. Hitchcock. Carried

Bids were opened and read aloud for the sale of used Health Department vehicles. Motion to award to highest bidders made by Mr. Wentworth; seconded by Mr. Mogavero. Carried

Mr. Roeske gave a report on a draft agreement between the County and the State University Construction Fund. This would involve the reconstruction of the Pine Street Bridge in the Town of Alfred. The Assistant County Attorney has reviewed the agreement and has responded to the state with comments.

The County bidding crushed bank run gravel and screened bank run gravel for the Towns was discussed. Motion to bid these items was made by Mr. Allen; seconded by Mr. Mogavero. Carried

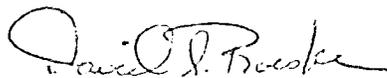
Mr. Roeske gave a status report on the re-alignments of County Routes 6 and 20. It is hoped a June letting can be achieved.

Mr. Allen read letters from the Towns of Belfast and Caneadea expressing their support of a County take-over of Town Bridges. (See Attached.)

Mr. Kelley discussed illegal dumping of garbage. He informed the Committee that two contractors were shut-off of the system this morning because of alleged illegal hauling of solid waste. It was the Committee's feeling that the contractors should pay some sort of resitution before being allowed to use the system.

Motion to adjourn the meeting at 10:45 A.M. made by Mr. Hitchcock and seconded by Mr. Wentworth. Carried

Respectfully submitted,



David S. Roeske
Deputy Superintendent I
Division of Highways

DSR:bjh

Enc.

TOWN OF BELFAST
BELFAST, NEW YORK 14711

OFFICE OF _____ Supervisor _____

MUNICIPAL BUILDING
MERTON AVENUE
BELFAST, NEW YORK 14711
PHONE 716-365-2623

May 19, 1987

Mr. W.R. Hanson, Superintendent
Allegany Co. Dept. of Public Works
County Office Building
Belmont, New York 14813

Dear Mr. Hanson,

In response to your letter of March 19th, the Belfast Town Board has held discussions concerning the Bridge Building and Maintenance Cost-Sharing Plan proposed by Allegany Co. Public Works Dept. We have agreed that the program certainly has to be continued. Belfast, along with all the Towns in Allegany County, has neither the manpower, equipment nor financial resources available to maintain, let alone construct, a bridge.

Our Board would be willing to negotiate a small increase in cost ratio, if necessary, but in view of the fact that costs for fuel and building materials have decreased the last few years, we see no reason for a change in either parties contribution, at this time.

We have all lost F.R.S. funds, but Allegany County has increased revenue from Sales Tax. The Towns have had to absorb this loss-not so the County.

Belfast Town Board has passed a Resolution, a copy of which is enclosed, supporting the recommendations made by Alle. Co. Highway Superintendents Bridge Committee. We feel this group of gentlemen are more knowledgeable and experienced and are better able to remedy the problems with our bridge system to the best interests of the taxpayers of Allegany County.

TOWN OF BELFAST
BELFAST, NEW YORK 14711

OFFICE OF _____Supervisor_____

MUNICIPAL BUILDING
MERTON AVENUE
BELFAST, NEW YORK 14711
PHONE 716-365-2623

2

In regards to the Snow and Ice Removal Contracts, our Board feels that Allegany County is getting a good deal in snow removal. We are satisfied with the program as it stands.

One last thought, we all live and work in Allegany County and have to work together for everyones benefit.

Sincerely,



Charles Clark
Supervisor
Town of Belfast

cc: Max Allen, Chairman, Dept. of Public Works Comm.
James Fleming; President, Alle. Co. Town Supts. Assoc.

CC/wk

TOWN OF BELFAST
BELFAST, NEW YORK 14711

Town Clerk

MUNICIPAL BUILDING
MERTON AVENUE
BELFAST, NEW YORK 14711
PHONE 716-361-2523

RESOLUTION # 6-87

TITLE: THAT THE TOWN OF BELFAST BOARD SUPPORTS RECOMMENDATIONS
MADE BY ALLEGANY COUNTY HIGHWAY SUPERINTENDENTS BRIDGE
COMMITTEE

I, Gwenda L. Kenyon, Clerk of the Belfast Town Board
of the County of Allegany, State of New York do hereby
certify that the foregoing constitutes a correct copy
of the original on file in my office and the whole
thereof of a Resolution passed by said Board on the
_____ 13th day of April _____, 19 87.

Gwenda Kenyon dated at Belfast,
New York this 14th day of April, 19 87.

Absent:

Moved by Mountain, Seconded by Sweet

Vote: Ayes 5, Noes 0, Absent 0 Voice x

TOWN OF BELFAST
BELFAST, NEW YORK 14711

MUNICIPAL BUILDING
MERTON AVENUE
BELFAST, NEW YORK 14711
PHONE 716-365-2623

Person: Town Clerk

RESOLUTION #6-87

TITLE: Town of Belfast Board supports recommendations made concerning Cost-Sharing plans for Bridge construction and maintenance.

RESOLVED:

THAT THE Town Board of the Town of Belfast will support any recommendations to County Public Works Committee and Allegany County Legislators made by Allegany County Highway Superintendents Bridge Committee.

Supervisor

Charles Clark

Councilmen

James A. Mountain
R. K. Sweet

David Chalber

James R. Ace

MEMORANDUM OF EXPLANATION

INTRO. No. _____
(Clerk's Use Only)

COMMITTEE: PUBLIC WORKS

DATE: _____

LEACHATE TREATMENT PLAN TO BE IMPLEMENTED AFTER
THE COUNTY LANDFILL BECOMES OPERATIONAL:

SEE ATTACHED FOR DETAILED EXPLANATION.

DSR:bjh

6/1/87

FISCAL IMPACT:

ESTABLISHING A LEACHATE TREATMENT PLAN TO BE IMPLEMENTED AFTER THE COUNTY LANDFILL BECOMES OPERATIONAL; DIRECTING COUNTY DEPARTMENT OF PUBLIC WORKS TO RECOMMEND TO COUNTY BOARD A FUTURE LEACHATE TREATMENT PLAN AFTER LEACHATE TREATMENT RESEARCH PROJECT IS COMPLETED AND THEREAFTER AT TIMES DEEMED APPROPRIATE BY SAID COUNTY DEPARTMENT OR BY THE COUNTY BOARD

Offered by: Public Works Committee

WHEREAS, Allegany County government is committed to a County leachate treatment program which is environmentally sound, not detrimental to the health of its citizens and is economically feasible, and

WHEREAS, the County Department of Public Works has recommended to this Board that when leachate cannot be treated at the County landfill facility, after operation of such landfill begins, that such leachate be disposed of at a Department of Environmental Conservation approved waste water treatment facility until such time as a more feasible leachate treatment plan can be determined, and

WHEREAS, the County Department of Public Works is currently conducting a research project called "Root Zone Method of Treating Leachate", now, therefore, be it

RESOLVED:

1. That the County Department of Public Works is hereby authorized and directed to dispose of all leachate generated at the County's landfill site that cannot be properly treated at such site by said County Department, by hauling or causing the hauling of all such untreated leachate to a waste water treatment facility approved by the State Department of Environmental Conservation for the treatment of such untreated leachate unless and until another method of treating such untreated leachate receives the approval of the County Board of Legislators; subject, however, to the annual appropriation by the County Board of Legislators of the funds requested by said County Department for such disposal.

2. That the County Department of Public Works is hereby ordered and directed to recommend to this County Board of Legislators all future leachate treatment plans for County Board approval, the first such recommended plan to be submitted after completion and result analysis of its current research project called "Root Zone Method of Treating Leachate", and thereafter at such time or times as said County Department or said County Board deems appropriate.

3. That the Clerk of this Board is hereby directed to send a copy of this resolution to the New York State Department of Environment Conservation.

J. Margeson

PUBLIC WORKS COMMITTEE MEETING

JUN 17 1987

June 15, 1987

PRESENT: M. Allen C. Wentworth J. Dickerson
 M. Mogavero B. Hanson J. Margeson
 B. Hitchcock D. Roeske
 A. Saylor J. Hopkins

- AGENDA: 1. Approval of minutes of June 1, 1987
 2. Audit
 3. Solid Waste
 a. Increased Tipping Fee
 b. Recycling
 c. Landfill Status
 4. Resolution to move funds
 5. Committee approval for condemnation re: CR-6; CR-20
 6. Deficient bridge report

**NOT
APPROVED**

The meeting was called to order at 8:35 a.m. by Chairman Allen.

The motion to approve the minutes of the previous meeting was made by Mr. Hitchcock and seconded by Mr. Wentworth. Carried.

Mr. Kelley reported on the increase in tipping fee from C.I.D. Landfill. Effective date will be July 1, 1987 and the new rate will be \$22.00/ton minus the \$2.00/ton discount for quick payment.

Mr. Kelley gave a report on status of construction of the landfill. Weather has set completion date back one week. Once construction is complete, expect a 30-day turn around thru D.E.C. for the operating permit. Soil testing and certification shall be the biggest problem. Expect August 1st as earliest opening or September 1st as late opening.

Mr. Kelley received a letter from the State Supervisors and Legislators Association requesting that he attend their conference on June 22, 1987 in Olean. Also, it was requested that he serve on the panel for Solid Waste Management. The Committee members felt that this would be beneficial.

Mr. Kelley reported that a pole barn type enclosure must be built over the leachate collection basin. The cost will be approximately \$11,000.

Mr. Kelley discussed out-of-County waste being hauled to the County transfer stations. At the last meeting, two contractors were barred from the system until restitution was paid. Patton's Busy Bee was charged \$150. and has been paid. Lippincott has paid a fee allowing him back into the system. Lippincott is to be called for a consultation to determine final restitution.

Many different subjects related to Solid Waste were discussed.
(Ex. incineration process to recycling.)

Mr. Allen commented on the recycling projects being started by individuals in Angelica. He would like to hold discussions with these people to help implement the program.

Mr. Allen recommended that certain meetings held throughout the last quarter be authorized as legitimate Committee days. Motion by Mr. Saylor and seconded by Mr. Hitchcock. Carried.

Mr. John Margeson presented a proposal to dispose of 15 acres of land owned by the County on Swift Hill Road in the Town of Angelica. Motion to investigate the sale of this property made by Mr. Hitchcock and seconded by Mr. Saylor. Carried.

Mr. Roeske presented a report on deficient bridges on the town and county systems. (See attachment)

Mr. Roeske reported that bids for the construction on County Routes 6 & 20 would be opened on June 25, 1987 at 10:00 a.m. in the Superintendent's office.

Mr. Roeske reported that the work ordered by D.E.C. at the County-owned gravel pit in Almond had been completed.

Mr. Roeske reported that the 1987 paving program is under way.

Resolutions allowing the County to pursue eminent domain proceedings to acquire certain properties for the relocation of County Routes 6 & 20 were approved. Motion by Mr. Hitchcock and seconded by Mr. Magavero. Carried. These resolutions only needed Committee approval, not full Board approval.

Mr. Hanson requested a resolution to transfer \$3,800.00 from D3310.432 to D3310.103. Motion by Mr. Wentworth and seconded by Mr. Magavero. Carried.

COUNTY ATTORNEY TO PREPARE RESOLUTION

Motion to approve payment of the bills made by Mr. Wentworth and seconded by Mr. Saylor. Carried.

Motion to adjourn the meeting at 11:30 a.m. made by Mr. Saylor and seconded by Mr. Hitchcock. Carried.

Respectfully submitted,



David S. Roeske
Deputy Superintendent I

MEMORANDUM OF EXPLANATION

INTRO. No. _____
(Clerk's Use Only)

COMMITTEE: PUBLIC WORKS

DATE: June 15, 1987

Because of the retirement of the Senior Sign Maker, the D3310.103 account was charged to pay for accumulated vacation time, etc. This payment left the account deficient. \$3,800. has to be transferred from D3310.432 to D3310.103 so there will be sufficient funds to pay the salary of the new Sr. Sign Maker through the remainder of the year.

WH/jh

FISCAL IMPACT:



ALLEGANY COUNTY DEPARTMENT OF
PUBLIC WORKS

HIGHWAY DIVISION
SOLID WASTE DIVISION
BUILDINGS & GROUNDS DIVISION

ROOM 210 COUNTY OFFICE BUILDING BELMONT, NEW YORK 14513
TELEPHONE 716 265-9230

County System

1200 linear feet of bridge surface that could be constructed
by force account at \$4,000.00/lin ft. (20' - 80' span) =
\$4,800,000.00.

700 linear feet of bridge surface that would have to be let
for contract at \$7,000.00/lin ft. (80' span or greater) =
\$4,900,000.00.

Total on County System = \$9,700,000.00

Town System

1950 linear feet of bridge surface that could be constructed
by force account at \$4,000/lin ft. (20' - 80' span) =
\$7,800,000.00.

1450 linear feet of bridge surface that would have to be let
for contract at \$7,000/lin ft. (80' span or greater) =
\$10,150,000.00.

Total on Town System = \$17,950,000.00

**GRAND TOTAL FOR COUNTY & TOWN SYSTEMS = \$27,650,000.00

Keep in mind that this does not include monies needed for
maintenance at bridges with a General Condition rating of
5.

DSR:bjh
6/12/87



ALLEGANY COUNTY DEPARTMENT OF
PUBLIC WORKS

HIGHWAY DIVISION
SOLID WASTE DIVISION
BUILDINGS & GROUNDS DIVISION

ROOM 210 COUNTY OFFICE BUILDING BELMONT NEW YORK 14813
TELEPHONE 716 265-9220

BRIDGE SITUATION
ALLEGANY COUNTY

Total County & Town Bridges	= 333
Total Town (20' span or greater)	= 208
Total County (20' span or greater)	= 125

A General Condition Rating of 4 or less is considered deficient by New York State Department of Transportation Standards.

County System

Of the 125 bridges (20' span or greater), 37 are deficient which is a deficiency rate of 30%.

Town System

Of 208 bridges (20' span or greater), 66 are deficient which is a deficiency rate of 32%.

On both the County and Town System there are 102 bridges with a condition rating of 5. In all probability these structures, if not maintained, will become classified as deficient within the next five to ten years.

The following is a cost breakdown (at today's replacement costs) of money needed to bring the system to 0% deficiency. Keep in mind that these figures are 1987 dollars and assuming no other structures will be termed deficient.

J. Margison

JUL 7 1987

PUBLIC WORKS COMMITTEE MEETING
JULY 6, 1987

NOT
APPROVED

PRESENT: M. Allen B. Hitchcock J. Hopkins
 M. Mogavero B. Hanson J. Dickenson
 A. Saylor F. Kelley

- AGENDA:
- 1) Approval of minutes of June 15, 1987
 - 2) Audit
 - 3) Solid Waste
 - a) Policy decisions
 - b) Status report
 - c) Laborer position request
 - d) Request for additional capital account funds
 - 4) Bid awards C.R.-6; C.R.-20
 - 5) Bid openings: bank run/crushed gravel
 - 6) Resolution - agreement with State on Pine Street Bridge, Alfred, New York
 - 7) 1988 Budget
 - 8) Town Highway Superintendents Bridge Committee report

The meeting was called to order at 8:40 A.M.

Minutes of the meeting of June 15, 1987, approved by Mr. Mogavero; seconded by Mr. Hitchcock. Carried

Mr. Kelley briefly discussed the need to make some policy decisions regarding landfill operations (see attached copy). Committee members requested time to review the options presented and then decided to have a special meeting on Friday, July 17, at 8:00 A.M. to have an in-depth review and decision making session.

Mr. Kelley reported that the landfill should be ready to operate in 4-6 weeks barring any unforeseen problems.

Mr. Kelley and Mr. Hanson made a request to have a laborer's position created that is urgently needed so that the transition of opening the landfill occurs smoothly. A resolution is necessary. Mr. Hitchcock made a motion to support the request; seconded by Mr. Mogavero. Carried

COUNTY ATTORNEY PREPARE RESOLUTION.

Mr. Hanson made a request to go before the Ways and Means Committee to ask for funds to make payments on landfill capital charges (leachate tank, paving, engineering and building covering leachate tank) estimated to be approximately \$58,200. Approval granted to go before Ways and Means on July 7, 1987.

The Bridge Committee of the Town Highway Superintendents Association represented by Jim Fleming (Angelica), Bill Nichols (Belfast), Bill Cronk (Amity), Jim Hennessy (Wellsville), presented a proposal for a county take over of town bridges. They were in hopes of some positive comments, but were informed taht the material would have to be studied and discussed with them at some later date, possibly in two months. The Public Works Committee is very much aware of the bridge problem at all levels of government and realize that the problems have to be addressed as effectively as possible.

Awards were made to the following firms for the relocation of portions of County Road 6 and County Road 20 (both Industrial Access Projects).

County Road 6	L.C. Whitford Co., Inc.	\$244,501.50
County Road 20	A.L. Blades & Sons, Inc.	\$315,917.35

Motions by Mr. Mogavero; seconded by Mr. Sylor. Carried

Bids for bank run gravel, screened gravel and crushed bank run gravel were opened. Bidders included:

Lawson Sand and Gravel
Buffalo Crushed Stone
Earl F. Dean
Alfred Atlas

Wayne Gravel Product's bid was received after the bid opening.

Motion made by Mr. Sylor, seconded by Mr. Mogavero to award all bids subject to review by the County Attorney's Office.

Mr. Kelley informed committee that he was informally negotiating with the Olean Treatment facility to treat leachate generated at the County Landfill. Mr. Kelley would like to have a D.E.C. approved plant that we could use in lien of the Amherst plant. Committee granted their approval to allow Mr. Kelley to continue with his informal negotiations.

Mr. Hanson requested approval to have a resolution prepared that would approve of the County participating with the State to rehabilitate the bridge on Pine Street in Alfred, NY and also authorize Mr. Hanson to execute said agreement. Motion to have resolutions prepared by Mr. Hitchcock; seconded by Mr. Sylor. Carried

COUNTY ATTORNEY PREPARE RESOLUTION.

Committee members requested copies of the proposed 1988 budget to be made available at the August 3 meeting. A review of the budget would be done at the August 17 meeting.

Audit of the bills was approved by Mr. Mogavero; seconded by Mr. Saylor. Carried.

The Meeting was adjourned at 11:40 A.M.

Respectfully submitted,



William R. Hanson, L.S.
Superintendent
Allegany County Department
of Public Works

WRH:bjh

Enc.

MEMORANDUM OF EXPLANATION

COMMITTEE: PUBLIC WORKS

INTRO. No. _____
(Clerk's Use Only)

DATE: _____

Resolution for Pine Street Bridge Project
Alfred, New York

A resolution is needed to grant approval for the County to enter into an agreement with the State University Construction Fund to collaborate on the replacement of the Pine Street Bridge in the Village of Alfred, New York and to authorize the Superintendent of the County Public Works to sign said agreement.

WRH:bjh

7/7/87

FISCAL IMPACT:

MEMORANDUM OF EXPLANATION

COMMITTEE: PUBLIC WORKS

INTRO. No. _____
(Clerk's Use Only)

DATE: _____

Request for laborer position -

Currently the Landfill operator is unable to fulfill his duties as Operator because he is performing maintenance type work and acting as a backup at the transfer stations.

The Landfill Operator has to start preparing for the opening of the landfill. Shifting existing personnel around leaves a void that can easily be filled by a laborer.

The additional person is needed and it is hoped that the reduction in overtime will be sufficient to cover the costs.

WRH:bjh
7/7/87

SCAL IMPACT:

Solid Waste Division

Re: Policy Decisions

In order to insure proper operation of the Solid Waste Division, policy decisions have to be made. These decisions have to be finalized prior to opening the County Landfill. The following are the items that must be addressed:

- 1) The acceptance of non-hazardous industrial waste, generated within Allegany County, in the County Landfill.

Background: Since the inception of the County Solid Waste Program, these wastes have been handled under the same policies as typical solid waste, with the exception of permits. Permits for disposal had been handled by the Generator of the waste. Enforcement of existing D.E.C. regulations since September of 1986 has made it increasingly difficult to dispose of this waste. Methods of disposal have changed in many cases, for example: landspreading of waste water treatment plant sludges was common prior to 1987. Currently there is no landspreading from any of these facilities. Also an inventory of all industrial and commercial waste generators was completed in 1986 by this Department and any potentially hazardous waste was eliminated from the waste stream. Strict control is the only method of insuring that no hazardous waste enters the County Waste Stream.

Policy Option (1)

Allegany County would be responsible for permitting acceptance of the waste into the County Waste Stream to insure strict control. A County permitting agent will do all required paper work and submit to D.E.C. for approval. The County will require analysis from the waste generator for the permit process. It will be the responsibility of the waste generator to do the required analysis.

In following this procedure, we will be in full control of all non-hazardous waste. The cost of this policy will be \$8,000.00 per year. It will involve about 15 Industries and Municipalities. All major Industries and all waste water treatment plants will come under this policy. The County will haul this waste from Municipal operations only.

Policy Option (2)

In order to maintain control over non-hazardous waste the following could be implemented to control it:

Have all non-hazardous waste generators do the required paper work for D.E.C. permit process for disposal. Allegany County will have to review the information and approve prior to acceptance in the County Landfill. Delivery and hauling permits will be responsibility of the generator. Loads will have to be inspected at the landfill. We will have little knowledge of when the loads are coming and what exactly is in the load.

Policy Option (2) Continued

This will be a coordination situation to insure proper landfill operation. This is not a full control situation. Hazardous and non-hazardous waste could end up at the landfill with hauler not having the proper permits. We would then turn away a load knowing that it is being hauled illegally.

Policy Option (3)

This would be the same as Policy Option (1) with the exception of a fee attached to each permit. I suggest a fee of the actual cost for each permit. Example; Village of Belmont, fee for permit would be approximately \$500.00 and because we would haul about 6 loads at 12 tons each, a total of 72 tons, times an estimated haul and disposal cost of \$20.00 per ton for a total cost to the Village of \$1,940.00 per year. This fee would vary depending on the haul cost and volume generated.

The permit fee for industry would be \$500.00 plus a per ton tipping fee at the landfill of \$16.00 per ton (estimated).

The cost to the County would then be about \$1,500.00 for accounting purposes. Revenue to the County would be about \$40,000.00.

For the municipalities funds for payment will have to be appropriated in their budgets. For industry, they will just have to pay.

Policy Option (4)

That we will not accept any non-hazardous industrial waste in the County Landfill.

2) Leachate Treatment Agreement

Background: As required for our permit to operate the landfill, we must have signed agreements with two, D.E.C. approved waste water treatment plants. We have an agreement with the plant in Amherst and have letters of intent from three other plants. The Amherst Plant will be very expensive to haul to so a closer plant should be located. It is anticipated that we will haul about 5,000 gallons per day in peak months of the year. This could easily be over 1,000,000 gallons per year. We have searched within a 100 mile radius to find an approved plant.

Option (1)

Informal negotiations have taken place with a D. E. C. approved plant operated by the City of Olean. They have a sludge disposal problem which will become serious when Cattaraugus County closes its landfill this fall. They will be faced with an expensive haul and disposal cost at the C.I.D. Landfill. We also have a problem due to the haul cost to Amherst.

Leachate Treatment Agreement

Option (1) - Continued

The plan would be that we would accept 12.5 c.y. of sludge from Olean, 5 days per week and in return, we would be able to dispose of our leachate at their facility. D.E.C. would approve this plan. The cost to Allegany County would be \$63.00 per day hauling and \$200.00 per day landfill cost. The total cost would be about \$68,380.00 per year. This includes landfill related costs in closure, monitoring and operation.

This plan would be implemented on a year to year basis. This would allow the County to develop alternate leachate planning.

Option (2)

Haul to Amherst for treatment. This would cost the County \$129.00 per day hauling and \$250.00 per day treatment. Total cost to the County would be \$98,540.00 per year. Also since we would be using one tractor trailer for 6 hours per day, the flexibility of our hauling operation would be limited. This also would be operated on a year to year basis.

Option (3)

Negotiate a per load fee with the City of Olean for disposal of both leachate and sludge. Our cost would probably be \$81,380.00 per year with a revenue of \$52,000.00 per year for sludge disposal. This sludge disposal cost would be for closure, monitoring and operation of the landfill. This would be implemented on a year to year basis. We would charge \$16.00 per ton and the City of Olean would charge \$.05 per gallon. Depending on volumes of leachate generation, the cost to the County could vary significantly.

Option (4)

We have all intent and propose to have an on-site treatment facility. With waste water treatment plants upgrading in the County, a location to treat leachate off-site may be found in the next two years. The economics of using such a facility may prove more viable than any on-site methods. One of the solutions above may prove better on a temporary basis. Flexibility is important.

3) Landfill Closure Monies

Background: As part of our requirements to operate the landfill guarantees must be made to insure monies are available each year for landfill closure. Also money must be available to monitor the site after closure for a period of 30 years. In order to do this a plan must be put in place to eliminate any future situations that may occur at the landfill.

Our consulting engineers tell us that the annual closure costs run

Landfill Closure Monies - Continued

between \$105,000.00 and \$150,000.00. As this is a forty year operation post closure costs are difficult to estimate. Today's estimates are in the neighborhood of \$1,000,000.00 for the 30 year post closure plan.

Option (1)

Devote five dollars for each ton of waste landfilled, to be put into a reserve account to be used for annual closure and post closure program. A line item account would be budgeted each year and a portion of the monies would be used each year for yearly closure. The remaining monies would be used in post closure plan. These remaining monies would build up over the 40 year operation and the Board of Legislators would authorize expenditure if and when any situation arose. In the 40 year life a total of \$4,200,000.00 would be set aside. Of this \$1,400,000.00 would be left for post closure and \$2,800,000.00 would be spent over the 40 years on annual closure.

Flexibility in having monies available when they are needed is necessary because of budget constraints.

Option (2)

Budget annually for annual closure. This will be difficult at times due to variables in volumes. Example; the incinerator has a major problem and shuts down for 3 months. We bury 3 times the volume and if we run over annual projections, we would run short of funds for annual closure.

Post closure funds would be established annually after closure of the landfill. No monies would be available if a situation arose before the closure that required funds other than budget items.

4) Ash Disposal

Background: Due to the fact that Cattaraugus County is closing its landfill in 1987, an anticipated increase in ash disposal costs is imminent. This will directly reflect on tipping fees paid to Cattaraugus County for use of the incinerator. I anticipate our tipping fee to be between \$35.00 and \$40.00 per ton compared to the \$20.00 we are currently paying. Also a great deal of research has been done to determine the impact ash has on a landfill. E.P.A. is nearing completion of its determination of whether or not ash is hazardous.

Our findings show that it is beneficial to decrease leachate toxicity. If a landfill is acidic (which typical landfills are) the basic ash will neutralize the leachate forcing a lot of the contaminants out of the leachate before it comes out of the landfill.

Ash Disposal - Continued

Approximately 18,000 tons of ash is generated each year. Current construction has provided for 81,000 cubic yards of air space for disposal. Projections for 1987-88 year show we will need 52,000 cubic yards air space. The ash would consume 18,000 cubic yards air space. This amounts to a total of 70,000 cubic yards of air space needed, if we take the ash for the 1987-88 year.

Option (1)

Do not accept the ash. Many variables will impact the cost to the County. The other options will better explain. The increase in Incinerator Fee will cost the County \$270,000.00 to \$360,000.00 per year. The estimated increase in leachate treatment costs because of toxicity could be \$24,000.00

Option (2)

Accept the ash for no fee. This would cost the county \$288,000.00 per year for disposal. Our landfill space will be reduced 40% or 16 years. This would create a 24 year landfill instead of a 40 year landfill.

Our tipping fee at the incinerator would probably only go to \$25.00 due to regular operating costs. This will add another \$90,000.00 to our operating costs. Total cost to the County would be \$378,000.00 per year. Our leachate treatment cost would go down.

Option (3)

Accept the ash for a fee. This fee would be \$20.00 per ton. The cost for disposal would be \$288,000.00 per year. The revenue realized from this fee would be \$360,000.00. Net gain would be \$72,000.00 per year. The increase in tipping fee due to our \$20.00 fee would be \$10.00 per ton or \$180,000.00 per year. Subtracting our net gain of \$72,000.00 from this total leaves an increase in operating costs of \$108,000.00 per year. This is by far the most cost effective. Also our leachate treatment cost would decrease.

5) Accepting out of County Waste in the County Landfill

Background: Many Municipalities and Industries outside of Allegany County have shown great interest in using the County Landfill. An effort was made to establish only County control over the site and documentation was received giving the County control. Also many Allegany Towns and Villages have formally voiced that they do not want to have out of County waste disposed of at the County Landfill. The issue of having a 40 year landfill with the unknowns of today's technology and the future of landfills has yet to be resolved.

Accepting out of County Waste in the County Landfill - Continued

My personal feeling is that if any planning in solid waste disposal goes beyond 15 years, the probability of major change is significant. With the existing landfill design of 40 years and the availability of another 40 years on the existing property, we must look at options available to make this operation economically efficient to the people of Allegany County.

Option (1)

Sell the landfill to the private sector with a 15 year guarantee of air space for disposal of Allegany County waste at no cost to the County. At our estimated per ton cost today the net worth of the landfill is \$13,440,000.00. The estimated market price for the facility would be \$8,400,000.00. The savings in operating cost using today's per ton cost over 15 years would be \$5,040,000.00. The economical benefit to Allegany County would be \$896,000.00 per year for 15 years. Basically the Solid Waste Operations would cost the taxpayers nothing and an actual revenue realized.

Option (2)

Accept a portion of waste from outside the County for a fee. This portion would be the difference of what we presently are landfilling and the 21,500 tons per year design. A minimum of \$21.00 per ton fee would be charged with \$5.00 of that going to a reserve fund for post closure. This would maintain maximum operating efficiency with incentives for the County to reduce the volume generated in the County.

This would generate about \$136,000.00 for fixed operating costs. A net savings of about \$100,000.00 per year operating costs would be realized with a significant increase in reserve dollars each year, which could reduce the amount the County would have to put into the reserve each year.

Option (3)

Do not allow any outside of County waste into the County Landfill. Because of the new D.E.C. Solid Waste Plan this will drive the operating cost up. The reason is that the Plan calls for 50% reduction in volume of waste disposed of in the next 10 years. Our fixed landfill cost is about \$8.00 per ton times 21,500 design tons per year. This accounts for a total fixed cost of \$172,000.00 per year. Our estimated burial cost is an additional \$6.00 per ton. This means the cost per year will be \$172,000.00, regardless of how many tons we landfill up to 21,500 tons per year. We are currently landfilling 14,000 tons per year, so

Accepting out of the County Waste in the County Landfill

Option (3) - Continued

our per ton cost will be \$18.29. If we landfilled 21,500 tons, our per ton cost will be \$11.91. If we follow the new D.E.C. Plan and reduce waste disposed of by 50% in 1997 our cost will go to \$36.57 per ton for disposal and operating. This will be a gradual change of 5 $\frac{2}{3}$ per year from \$18.29 to \$36.57 over ten years. Of course other increases in operations are anticipated, but it is premature to estimate at this time.

J. Margeson

PUBLIC WORKS COMMITTEE MEETING
JULY 20, 1987

NOT
APPROVED

AUG 27 1987

PRESENT: M. Allen C. Wentworth F. Kelley
M. Mogavero L. Watson J. Hopkins
A. Sylor B. Hanson J. Dickenson
B. Hitchcock D. Roeske

- AGENDA: 1) Approve minutes
2) Audit
3) Solid Waste
4) Bridge report letter - NYS DOT
5) Resolution-transfer funds for Pine Street Bridge
6) C.R. 20 - temporary detour due to Conrail crossing repair

The meeting was called to order at 8:30 A.M. by Chairman Allen.

Approval of the minutes of the previous meeting. Motion made by Mr. Sylor and seconded by Mr. Wentworth. Carried

Approval of the audit. Motion made by Mr. Hitchcock; seconded by Mr. Mogavero. Carried

Mr. Kelley reviewed the final plans for the leachate collection and treatment facility with the committee. The reeds will be established in the treatment beds this year and leachate will be put into the system next spring.

Mr. Hanson reported that County Route 20 will be closed from Belvidere to Friendship for approximately two weeks. Conrail is rehabilitating their crossing and traffic control arms at the crossing near the S-curves.

Mr. Hanson requested a Resolution be prepared to move money from the Interfund Transfer Account D 9553.9 to a Capital Account in the amount of \$37,500 to cover the County's share of the reconstruction of Pine Street Bridge, Town of Alfred.

COUNTY ATTORNEY PREPARE RESOLUTION.

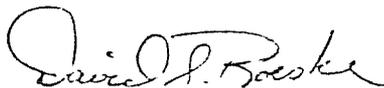
Mr. Hanson announced a scheduled field trip to County Route 4 following the meeting.

Mr. Hanson reviewed a letter from New York State Department of Transportation regarding deficient bridges. Department of Transportation is requesting certain data be supplied to them by the municipalities. All reports are to be in Albany no later than October 1, 1987.

Mr. Allen requested that a list of towns and their CHIPS allocations be supplied to the committee.

Motion to adjourn made by Mr. Saylor; seconded by Mr. Allen. The meeting adjourned at 10:00 A.M.

Respectfully submitted,



David S. Roeske
Deputy Superintendent I
Division of Highways

DSR:bjh

SEP 14 1987 *J. Margen*

PUBLIC WORKS COMMITTEE MEETING
SEPTEMBER 8, 1987

NOT
APPROVED

PRESENT: M. Allen L. Watson J. Hopkins
 A. Sylor B. Hanson J. Dickenson
 C. Wentworth D. Roeske J. Baker
 M. Mogavero F. Kelley

- AGENDA:
- 1) Approval of minutes of August 17, 1987
 - 2) Audit
 - 3) Status report on:
 - a) County Road 6
 - b) County Road 20
 - c) Bridge on County Road 43
 - 4) Equipment repair costs on 1973, Mack, Tandem Dump
 - 5) Review proposed 1988 road maintenance program
 - 6) Resolution request - two additional CHIPS CAPITAL PROJECTS
 - 7) Real property sales (Angelica, Centerville, County gravel pit)
 - 8) Solid Waste - landfill status; sludge from Cuba
 - 9) Additional parking spaces

The meeting was called or order by Chairman Allen at 1:30 P.M.

Approval of the minutes of the August 17th, 1987, meeting.
Motion by Mr. Wentworth and seconded by Mr. Sylor. Carried

Motion to approve the bills made by Mr. Wentworth; seconded by Mr. Sylor. Carried

A request to transfer \$200 from E 5130.408 to E 5130.401 was approved. Motion made by Mr. Sylor and seconded by Mr. Wentworth. Carried

The Committee discussed a letter received from Mr. Lyle P. Edwards, councilman, Town of Genesee. The letter contained concerns in regards to County Road 5. Mr. Hanson and Mr. Roeske had reviewed the concerns in the field and gave a report ot the Committee.

Mr. Kelley reported on a meeting between the Village of Cuba and himself. The Village is planning to upgrade its sewage treatment plant. There exists a sludge pond with approximately 2000 cubic yards of sludge, which the village would like to haul to the county's landfill. Mr. Kelley estimated that 20% of this material was generated before the county assumed responsibility for solid waste. Any waste generated before the take over is not the responsibility of the county. After a lengthy discussion, a motion was made by Mr. Wentworth and seconded by Mr. Allen that the county accept 80% with a \$5.00/ton fee to be assessed for the closure fund and the other 20% to be taken for a total fee of \$21.00/ton. Carried 3 yes 1 no

Mr. Kelley reported that a non-county company had contacted him regarding use of the county landfill. Motion made by Mr. Wentworth and seconded by Mr. Allen that the present policy of no non-county residence be allowed at this time. Carried

Mr. Kelley reported on the status of opening the landfill. New York State Department of Environmental Conservation is processing the paperwork as rapidly as possible.

Mr. Saylor reported that Sal Cappizzi approached him on behalf of a private company interested in buying the landfill. The committee directed Mr. Kelley to contact these people to find out what they have in mind. There were mixed feelings among the members as to selling the landfill.

Mr. Kelley reported that work on the source separation law is progressing slowly, but, after a few weeks the county attorney should be able to spend more time with it.

Mr. Roeske reported on the status of capital projects now in progress. County Route 6 re-alignment in Cuba, County Route 20 re-alignment in Friendship; County Route 43 - Bridge rehabilitation in Angelica. The projects on Pine Street, Alfred, County Route 3 -bridge rehabilitation in Hume and the District 2 Shop were also discussed.

Mr. Roeske gave the committee copies of the tentative 1988 paving program. Preparation of these roads to be repaved must start soon. Mr. Roeske asked for a commitment as to funding. The committee directed that work be started on the routes in the worst condition.

Mr. Roeske reviewed reconditioning estimates for the 1973 Mack Tractor and the 1978 Ford tandem axle dump. Copies of the estimates were given to members present.

Mr. Roeske presented a plan to create more parking in the employee parking lot. The committee reviewed this plan, and revised it. The area to be expanded will be limited to the lot directly behind the court house building. Motion made by Mr. Saylor and seconded by Mr. Wentworth to proceed with the revised plan. Carried

Mr. Hanson presented the committee with a written report on the BOCES gravel pit. This report is to be read to the entire board and sent to the BOCES chief executive officer as per our agreement with BOCES.

Mr. Hanson discussed two (2) parcels of county owned property that individuals have shown an interest in purchasing. One parcel being a part of the old county home and situated in Angelica. The recommended price, as suggested, after reviewing land transactions, was \$300/acre. Motion made by Mr. Mogavero and seconded by Mr. Saylor to sell the parcel for \$300/acre. Carried

The second parcel being in the Town of Centerville. The recommended price, was \$100/acre. Motion made by Mr. Mogavero and seconded by Mr. Saylor to sell this parcel for \$100/acre. Carried

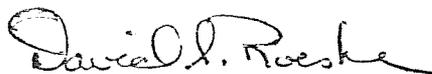
A discussion of the possible sale of the County gravel pit in Almond ended with the committee directing Mr. Hanson to advise five or six companies in the mining business of our intentions and to take written offers. Motion made by Mr. Saylor and seconded by Mr. Wentworth to proceed in this direction. Carried.

Mr. Hanson requested a resolution be prepared to set up two (2) capital projects to expend the required amount of chips funding for bridge work. The two bridges being on County Road 3 in Hume and County Road 7D in Cuba. Motion made by Mr. Saylor and seconded by Mr. Wentworth. Carried

COUNTY ATTORNEY PREPARE RESOLUTION.

Motion to adjourn at 4:10 P.M. made by Mr. Mogavero and seconded by Mr. Saylor. Carried

Respectfully submitted,



David S. Roeske
Deputy Superintendent I
Division of Highways

J. Margeson

AUG 19 1987

PUBLIC WORKS COMMITTEE MEETING
AUGUST 17, 1987

PRESENT: M. Allen C. Wentworth L. Watson
 M. Mogavero B. Hanson J. Hopkins
 A. Saylor D. Roeske J. Dickenson
 B. Hitchcock F. Kelley

AGENDA: 1) Approval of minutes of August 3, 1987
 2) Audit
 3) Budget review
 4) Solid Waste
 5) Glu-laminated, pressure-treated bridge openings:
 a) Bridge #20-16
 b) Bridge # 1-2

NOT
APPROVED

The meeting was called to order at 8:30 a.m. by Chairman Allen.

Motion to approve the minutes of August 3, made by Mr. Mogavero; seconded by Mr. Hitchcock. Carried

Motion to approve payment of the bills made by Mr. Mogavero; seconded by Mr. Hitchcock. Carried

Mr. Hanson requested a transfer of funds from account number A 8160.406 to A 8160.430 in the amount of \$28,000.00 and transfer funds from account number A 8160.433 to A 8160.430 in the amount of \$8,000.00. Motion made by Mr. Hitchcock; seconded by Mr. Wentworth. Carried

Mr. Kelley reported on the negotiations with the City of Olean regarding leachate treatment. Olean will treat our leachate for 2.7¢ per gallon and in return Allegany County will landfill their sludge for \$16.00 per cubic yard. A letter of intent is to be drawn up and problems worked out before any agreements are signed.

Mr. Kelley reported that New York State Department of Environmental Conservation will make a final inspection of the landfill on Friday, August 21, 1987.

Mr. Roeske reported that work on County Route 6 re-alignment is underway; work on County Route 20 re-alignment is expected to start this week. The bridge rehabilitation on County Route 43 is on schedule.

Bids were opened at 10:00 a.m. on the following glu-laminated, pressure-treated bridge decks:

	County Route #3 Bridge #20-16	Pine Street Bridge # 1-2
Associated Components	\$29,942	\$34,559
Laminated Concepts	\$24,678	\$28,546
Eco Bridge	\$23,378	\$29,676

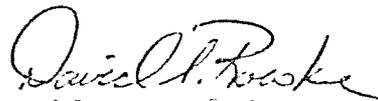
Mr. Roeske asked for and received permission to award to low bidder pending examination of the bids by the County Attorney and approval of the shop drawings. Approval granted motion made by Mr. Saylor; seconded by Mr. Hitchcock. Carried

Review of the Public Works Budget covering Administration and Solid Waste was accomplished.

A meeting was scheduled for 10:00 a.m. on Thursday, August 20th, 1987, to complete the budget review.

The meeting was adjourned at 12:00 p.m.

Respectfully submitted,



David S. Roeske
Deputy Superintendent I
Division of Highways

DSR:bjh

PUBLIC WORKS COMMITTEE MEETING
AUGUST 3, 1987

J. Margen
NOT
APPROVED

AUG 5 1987

PRESENT: M. Allen L. Watson F. Kelley
M. Mogavero A. Sylor J. Hopkins
B. Hitchcock B. Hanson J. Dickenson
C. Wentworth D. Roeske

AGENDA: 1) Approval of minutes of July 20, 1987
2) Audit
3) Solid Waste
4) DPW Budget hand outs for review

The meeting was called to order at 8:30 A.M. by Chairman Allen.

Motion to approve the minutes of the previous meeting made by Mr. Mogavero; seconded by Mr. Wentworth. Carried

Motion to approve payment of the bills made by Mr. Hitchcock; seconded by Mr. Wentworth. Carried

Mr. Kelley asked for committee guidance as to landfill policy #1. This is in regards to a charge made to municipalities and private industries for the preparation of hauling permits. Motion made by Mr. Hitchcock; seconded by Mr. Wentworth, to charge for the preparation of the hauling permits. Carried; Mr. Sylor casting a negative vote.

Mr. Kelley reported on the status of the landfill. Possible to open within the next 30 days. An open house was discussed. Mr. Kelley would rather wait until we have been in operation a few weeks.

Mr. Hanson requested a transfer of \$150. from Account # A 1620.205 (Office Supplies) to A 1620.202 (Tools). Motion made by Mr. Sylor; seconded by Mr. Wentworth. Carried

Mr. Hanson passed out copies of his proposed 1988 budget for members to review prior to a thorough review on August 17, 1987.

Motion to adjourn to Executive Session for personnel matters made by Mr. Hitchcock; seconded by Mr. Mogavero. Carried 9:30 A.M.

Motion to reconvene to regular session made by Mr. Hitchcock; seconded by Mr. Mogavero. Carried

Motion to adjourn the meeting made by Mr. Wentworth; seconded by Mr. Mogavero. Carried.

The meeting was adjourned at 9:50 A.M.

Respectfully submitted,



David S. Roeske
Deputy Superintendent I
Division of Highways

DSR:bjh

J. Margeson
NOT
APPROVED

PUBLIC WORKS COMMITTEE MEETING
SEPTEMBER 21, 1987

SEP 23 1987

PRESENT: M. Allen B. Hanson J. Hopkins (WDR)
 M. Mogavero L. Watson J. Dickenson (OTH)
 A. Sylor D. Roeske
 C. Wentworth F. Kelley

AGENDA: 1) Approval of minutes of September 8, 1987
 2) Audit
 3) Solid Waste - Landfill
 4) Flood water damage
 5) 1988 equipment needs discussion
 6) Bridge posting discussion

The meeting was called to order by Chairman Allen at 8:30 A.M.

The minutes of the September 8, 1987, meeting were approved. Motion made by Mr. Sylor and seconded by Mr. Mogavero. Carried

Motion to approve payment of bills made by Mr. Sylor; seconded by Mr. Wentworth. Carried

Bids for sand and salt mix were opened by Chairman Allen with the following companies submitting a bid:

- 1) Wayne Gravel Products
- 2) Buffalo Crushed Stone, Inc.
- 3) Spencer & Haley, Inc.

Mr. Roeske asked the committee for permission to award the bid upon review of the County Attorney. Motion made by Mr. Sylor; seconded by Mr. Wentworth approving the request. Carried

Mr. Kelley reported that New York State Department of Environmental Conservation will inspect the landfill site on Wednesday September 23, 1987 at 1:30 P.M. Every effort is being made to start operation on Thursday September 24, 1987. Mr. Allen asked what happens if the permit is not issued. Mr. Kelley responded that we would begin landfilling as per board resolution of last year.

Mr. Kelley reported that he called the party in Virginia as directed by the committee in regards to possible sale of the landfill. The committee felt that discussion in regards to a sale would be inappropriate at this time.

The used tire disposal problem was discussed at length. Different options such as stockpiling, splitting and landfilling were looked at. At this time landfilling is the option available, others are being investigated.

Mr. Kelley reported on the cost of rehabilitation of the Solid Waste Division tractors. The cost per unit is estimated at \$32,000 maximum each. Different companies have been contacted and the question of rehabilitation or replacement was discussed. There seems to be different views as to feasibility. Our biggest concern would be back-up tractors during the time the tractors are in the shop. Mr. Allen suggested that a replacement and rehabilitation program be implemented in which one truck per year be replaced and another be rehabilitated. The consensus of the committee is for a planned replacement and repair program. It was decided to leave the money in the budget for the time being.

Mr. Roeske reported on the damage caused by the recent heavy rains. Minor damage to road shoulders, plugged culvert pipes and stream bank erosion are the biggest problems. Repair work is in progress. No major damage to the County Highway System. Three rip rap projects were approved by the S.C.S. for federal funding. (Two (2) on County Road 12 and one (1) on Statley Hill Road in Alfred.)

Mr. Roeske reported on the County/Town Bridge Program. Work is progressing. Three bridges are complete and three more are left to do this year.

Mr. Roeske gave an update of progress on the relocation projects; County Road 6 and County Road 20. County Road 6 is approximately eighty per cent (80%) complete and County Road 20 is approximately twenty per cent (20%) complete.

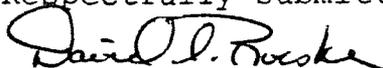
Mr. Roeske handed out a listing of bridges to be posted for weight restrictions on the County Road System.

Mr. Hanson asked for and received permission for two (2) employees to attend a solid waste seminar. Motion to approve the request made by Mr. Mogavero; seconded by Mr. Saylor. Carried

Mr. Hanson requested a transfer of funds from account no. A 8160.401 to A 8160.404 in the amount of \$442.00, also from account no. A 8160.401 to A 8160.405 in the amount of \$16.53. Motion to approve the request made by Mr. Saylor; seconded by Mr. Wentworth. Carried

Motion to adjourn at 10:30 A.M. made by Mr. Wentworth; seconded by Mr. Saylor. Carried

Respectfully submitted,



David S. Roeske
Deputy Superintendent I

PUBLIC WORKS COMMITTEE MEETING

October 5, 1987

J. Morgan
OCT 6 1987

NOT

APPROVED

PRESENT: M. Allen B. Hanson J. Dickenson (OTH)
M. Magavero L. Watson G. Herdman
B. Hitchcock D. Roeske H. Tucker
C. Wentworth F. Kelley
A. Sylor J. Hopkins (WDR)

AGENDA: 1) Approval of minutes
2) Audit
3) Resolution - Amendment 5 Local Bridge Program
4) Budget Transfers
5) CR-6 Status
6) Parking Lot Project
7) Lease agreement with Gelser for land along CR 15A
8) Letter from Lee Edwards
9) CR-35 Problem/ Houghton College request
10) Solid Waste up-date
11) Request to go to Ways & Means
12) Report from Glenn Herdman on Cuba Incinerator ash

The meeting was called to order at 8:35 a.m. by Chairman Allen.

Motion to approve the minutes of the September 21, 1987 meeting made by Mr. Wentworth and seconded by Mr. Sylor, Carried.

Motion to approve payment of the bills made by Mr. Magavero and seconded by Mr. Sylor, Carried.

Glen Herdman of EnerCan addressed the Committee regarding the recent publicity concerning the Toxicity test taken by D.E.C. The testing was done by D.E.C. to define a sampling (testing method that would be uniform. These tests were not to be used to determine the toxicity of the ash being generated. (See attached data sheet and letter)

Mr. Hanson requested permission to attend a Ways & Means Committee meeting to address shortfalls within the Solid Waste operating budget. Also, additional funds are needed for design work that must be completed before February 1, 1988.

The County must meet the current EPA design standards for landfills. Mr. Kelley discussed the regulation changes being developed by D.E.C. and the fact that the County must comply with these changes. Motion made by Mr. Allen and seconded by Mr. Watson to allow Mr. Hanson to address the Ways & Means Committee, Carried.

Mr. Kelley reported that the operations at the landfill are running smoothly. Any committee member is welcome to visit the site.

Mr. Hanson requested a resolution be prepared to revise Schedule A of the Transportation Bond Program. The revisions to be made will account for total fund costs on the CR 43 and CR 18 Bridge Projects.

COUNTY ATTORNEY TO PREPARE RESOLUTION.

Mr. Hanson requested several transfers in the following accounts:

<u>FROM</u>	<u>TO</u>	<u>AMOUNT</u>
D5020.429	D5020.405	\$100.00
D3310.408	D3310.432	2,600.00
A8160.412	A8160.408	625.00
A8160.401	A8160.405	41.80
A8160.102	A8160.103	10,000.00
A8160.412	A8160.438	525.00

Motion made by Mr. Hitchcock and seconded by Mr. Wentworth to approve the transfers, Carried.

Mr. Roeske reported that due to the weather, maintenance work is backlogged and the proposed work on the rear parking lot will be rescheduled next spring.

Mr. Hanson discussed problems finding suitable locations for stockpiles. Duane Gelser of Birdsall is willing to lease some land for \$200/year. Motion made by Mr. Mogavero and seconded by Mr. Hitchcock to have the County Attorney prepare a lease, Carried.

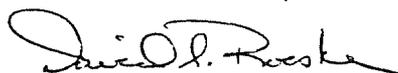
The Committee briefly discussed a letter from Lee Edwards of Edwards & Moncreiff, P.C.

Mr. Hanson discussed a request from Houghton College regarding the possible paving of CR 35 in the slide area. Both Mr. Hanson and Mr. Roeske felt that the area should remain as is until the problem has stabilized. The Committee directed that an investigation into the possibility of turning CR 35 over to Houghton College be investigated.

The Committee discussed different options regarding existing County Route 6 in the Cuba Cheese plant area. Mr. Hanson will discuss the matter with the County Attorney.

Motion to adjourn at 10:50 a.m. made by Mr. Allen and seconded by Mr. Mogavero. Carried.

Respectively submitted,



David S. Roeske
Deputy Superintendent I

MEMORANDUM OF EXPLANATION

INTRO. No. _____
(Clerk's Use Only)

COMMITTEE: PUBLIC WORKS

DATE: _____

A resolution is needed to approve the fifth amended Schedule A of the Local Bridge Program Agreement approved by Resolution No. 170-84.

Changes necessary are:

- 1) Increase capital account and revenue account appropriations for County Road 43 bridge, (P.I.N. 6751.56B) from \$249,000 to \$269,337.85.
- 2) Increase capital account and revenue account appropriations for County Road 18 bridge, (P.I.N. 6751.80B) to \$212,161.
Capital Account No. H 5238
Revenue Account No. H 3089.40
- 3) Decrease capital account revenue account appropriations for County Road 16 Bridge to \$62,055.84.
Capital Account No. H 5249
Revenue Account No. H 3089.46

WRH:bjh
10/06/87

SCAL IMPACT:



Henry G. Williams
Commissioner

APR 29 1987

Mr. Herb Tucker
Cattaraugus Energy Recovery Facility
4545 Haskell Road
Cuba, New York 19727

Dear Mr. Tucker:

Re: Cattaraugus County Energy Recovery Facility
Ash Residue Characteristic Program

Attached are the analytical data for the residue samples which were collected on March 11, 1987 at the Cattaraugus County Energy Recovery Facility. Sample identification numbers and descriptions of samples are also attached. Samples were transported via courier to the NYSDEC contract lab, ERCO/ENSECO, in Cambridge, Massachusetts. Analyses were performed utilizing the Extraction Procedure (EP) Toxicity Test as set forth in Appendix 20 of 6 NYCRR Part 371. In addition, selected samples were analyzed utilizing the Toxic Characteristic Leaching Procedure (TCLP) which is currently under consideration by EPA as a replacement for the EP Toxicity Test.

During the months of January, February and March 1987, ash residue samples were collected at six of the State's seven municipal resource recovery combustion facilities as part of a Statewide Ash Residue Characterization program. One of the primary purposes of this program is to develop sampling and analytical protocols which are capable of yielding representative data.

An examination of the Cattaraugus County ERF results indicates that the sampling and analytical protocols utilized on March 11, 1987 were not adequate to differentiate the reliability of one sampling technique over another with respect to which technique provided a representative portrayal of the ash residue quality. For example, one could speculate that the four hour composite sample should be numerically similar to the sample cored from the roll-off container. However, since the results are so radically different, no conclusion can be made regarding the preference of one sampling method over another.

What these data clearly demonstrate is that many samples must be collected, analyzed and statistically compiled to even begin to approach a reasonable characterization of the ash residue. We will continue to work with all facilities in an effort to develop an acceptable sampling protocol and to work towards establishing a representative characterization of the ash residue.

ASH DATA:

DATE OF SAMPLE 3/11/87

CONCENTRATIONS ARE PPM E.P.A. LIMITS ARE 5.0 FOR Pb, 1.0 FOR Cd

SAMPLE	E.P. TOXICITY TEST		T.C.L.P. TEST	
	Pb	Cd	Pb	Cd
SAMPLE 1 GRAB SAMPLE	0.79	0.190	0.050	0.020
SAMPLE 2 CORE SAMPLE	2.80	0.058	0.280	0.035
SAMPLE 3 4 HR COMPOSITE (4 REPLICATED ANALYSIS THIS CONCENTRATION INDICATED IS THE SAMPLE MEAN)	29.25	0.125	5.6	0.069
AVERAGE FOR 3 SAMPLES	10.946	0.124	1.976	0.041

EP TOXICITY TEST IS A TEST DESIGNATED TO EVALUATE THE LEACHEATE PRODUCED FROM A LANDFILL CONTAINING 95 PARTS MSW, 5 PARTS ASH. ITS VALIDITY IN THE APPLICATION TO 100 % ASH IS SUSPECT.

T.C.L.P. (TOXIC CHARACTERISTIC LEACHING PROCEDURE) IS THE TEST CURRENTLY UNDER CONSIDERATION BY THE E.P.A. TO REPLACE THE E.P. TOXICITY TEST FOR INCINERATOR ASH ANALYSIS. ADOPTION OF THIS TEST COULD TAKE PLACE YET THIS YEAR.

J. Margeson

PUBLIC WORKS COMMITTEE MEETING

October 19, 1987

NOT APPROVED

PRESENT:	M. Allen	B. Hanson	J. Hopkins (WDR)
	M. Mogavero	D. Roeske	J. Dickerson (OTH)
	A. Sylor	F. Kelley	L. Edwards
	C. Wentworth	L. Watson	M. Weishan

- AGENDA:
1. Approval of minutes
 2. Audit
 3. Status report on CR-6; CR-20
 4. Discussion with Edwards & Moncreiff, P.C.
 5. Solid Waste:
 - a. Double liner
 - b. 1988 budget adjust request
 - c. Ash disposal discussion
 6. Discussion of highway abandonment

OCT 22 1987

The meeting was called to order at 8:30 a.m. by Chairman Allen.

Motion to approve payment of the bills made by Mr. Hitchcock and seconded by Mr. Wentworth. Carried

Motion to approve the minutes of the October 5, 1987 meeting made by Mr. Sylor and seconded by Mr. Wentworth. Carried

Mr. Kelley discussed needed changes in the 1988 budget. The redesign to incorporate the artificial liners at an estimated cost of \$212,500 for construction and an additional \$15,000 for engineering costs. An increase in the tipping fee at the incinerator was also discussed. Because of impending improvements, increased operating costs, and charges for ash disposal Cattaraugus County is proposing a fee of \$36.81/ton. Committee members, after some discussion, felt that we should take 15,000 tons of burnables to the incinerator, take 15,000 tons of ash from the incinerator to our landfill; pay \$30.00/ton to tip at the incinerator and charge Cattaraugus County \$30.00/ton for dumping ash at the landfill. Mr. Kelley will submit the figures and comments to Jr. Johnson, Superintendent of Cattaraugus County D.P.W.

Mr. Lee Edwards and Mr. Mike Weishan representing Edwards and Moncreiff, P.C. addressed the Committee concerning the redesign of the landfill liner system. It was stressed that all aspects of the design should protect the County now and in the future. Mr. Edwards expressed an interest in continuing with the project. Mr. Kelley and Mr. Hanson asked what procedures would be followed and if the redesign could be accomplished by the February 1, 1988 deadline. Mr. Edwards responded by saying if his firm were selected, work would begin immediately and the February 1st deadline would pose no problem.

Mr. Roeske reported on the status of the relocation projects. County Route 6 is nearing completion and County Route 20 is approximately 60% complete.

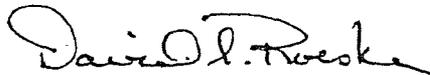
Motion made by Mr. Sylor and seconded by Mr. Hitchcock to proceed with a land trade with Cuba Cheese. The land the County would receive would be used as a stockpile area.

Mr. Hanson reported on the procedure used to turn county roads back to the towns.

Mr. Hanson reported that the person interested in buying County land near the old County Home is no longer interested because they felt the price was too high. Mr. Watson stated that another party would buy the whole parcel for \$150/acre. The Committee felt that property values would rise and therefore would hold off for a better offer.

Motion to adjourn made by Mr. Sylor and seconded by Mr. Hitchcock at 11:40 a.m. Carried.

Respectfully submitted,



David S. Roeske
Deputy Superintendent I

DSR/jh

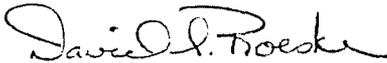
Mr. Hanson requested a transfer of funds in the amount of \$50.00 from Account E 5130.408 to E 5130.411. Motion by Mr. Wentworth; seconded by Mr. Sylor. Carried

Mr. Hanson requested a resolution be prepared to transfer \$1,000.00 from Account A 1620.426 to A 1620.103; \$1,100.00 from Account A 1620.428 to A 1620.205 (Buildings & Grounds). Motion made by Mr. Wentworth and seconded by Mr. Sylor. Carried

COUNTY ATTORNEY PREPARE RESOLUTION.

Motion to adjourn at 10:15 a.m. made by Mr. Wentworth; seconded by Mr. Sylor. Carried

Respectfully submitted,



David S. Roeske
Deputy Superintendent I
Division of Highways

DSR:bjh

Enc.

There was discussion on the tractor truck units of Solid Waste. Committee of the Whole made a decision to cut one of the two tractor truck units out of the proposed 1988 budget, but the Public Works Department has some concerns about the cut. (See cost analysis attached to these minutes). More discussion is scheduled. Some committee members would like to see how much it would cost to contract with someone to provide tractor-trucks with drivers to move the county waste containers. Problems with this approach will be discussed with the County Attorney and be reviewed with committee.

Mr. Kelley noted that the landfill operation was inspected recently by D.E.C. and a good report was generated.

Mark Glynn of Glynn Geotechnical Engineering was introduced to committee members because he has played a very active role in the landfill development and has the potential to design additional space under the new requirements. The firm of Edwards & Moncreiff, P.C., designed the transfer stations and the landfill and their continued assistance was considered, however, if their services were continued Mr. Glynn's firm would still be involved. It was felt by using Mr. Glynn and his firm one less party would be involved, which would simplify procedures. Mr. Sylor made a motion to use Mr. Glynn and Glynn Geotechnical Engineering for the next phase of development for landfill space which includes the use of synthetic liner(s). Motion seconded by Mr. Mocarvero. Carried. Time is very important because the design for the next phase has to be to NYS D.E.C. by February 1, 1987. A letter will be sent to Edwards and Moncreiff, P.C., thanking them for their assistance to date.

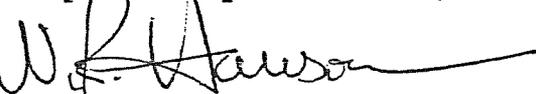
Request for budget line item transfers approved by Mr. Sylor; seconded by Mr. Wentworth. Carried (see attached copy of requests)

Approval was granted to allow Mr. Hanson, Mr. Roeske and Mr. Green attend an asphalt seminar in Buffalo, NY on December 2, 1987.

The Public Works Committee meeting of December 7, 1987, will be held at the Friendship Shop.

The meeting was adjourned at 12:40 P.M.

Respectfully submitted,



William R. Hanson, L.S.
Superintendent

WRH:bjh

Enc.

COST ANALYSIS OF SOLID WASTE TRACTOR TRAILERS

The County presently owns two 1982 Model tractor trailers and a third tractor trailer of 1983 vintage. The first two tractor trailers went on the line in March of 1983 and the third in June of 1983. A fourth used tractor was purchased in the Fall of 1985 to be used as a backup.

The newest tractor has over 9,000 hours on it. The 1982 models have been used over 9,500 hours.

The "Construction Equipment Cost Reference Guide" lists these tractors showing the maximum efficient hours to be expected, economically, as 11,000 hours.

If these tractors were "over the road haulers", averaging 40 miles per hour, there would be over 400,000 miles covered by them. This is the average miles per hour given by two trucking companies. These figures are for comparison purposes only. Trucking companies tell me that engine wear is equivalent in our situation because of engine r.p.m. during loading and unloading. Idling is not appreciable.

Numerous considerations are found in understanding what and when to do something to a tractor trailer to keep it operating economically. Many trucking companies have gone into bankruptcy trying to get that extra mile out of a "worn out" piece of equipment.

Following are the considerations I have looked into in order to make the recommendations listed:

Maintenance Costs:

During the first year maintenance costs are low due to equipment being new and manufacturing warranties. Typical costs for the first year are preventive maintenance costs, oil changes, filters, greasing, tires and at 50,000 miles injector replacement. In our situation this amounted to about \$450.00 per month per tractor.

In the second year universals were replaced along with clutches, Pto shafts, hydraulic pumps and the preventive maintenance remained about the same. Tires and one set of injectors also remained the same. This made the monthly maintenance cost climb to \$600.00 per month per tractor.

In the third year we maintained about the same as the second year with the exception of an extra clutch and other extra parts on the engines such as fuel pump. Monthly costs were approximately \$650.00 per tractor.

In the fourth year our costs started sky rocketing. On top of the same costs as the first year we started replacing engine components such as injector pumps, starter motors, turbo rebuilds, water pumps and head gaskets. Also we started seeing significant drive line wear including spring breakage, brake replacements and front end repairs. We are only part way through this phase and are faced with doing major work on the tractors. Our costs this year are at just over \$1,000.00 per month per tractor.

COST ANALYSIS OF SOLID WASTE TRACTOR TRAILERS

Cont'd

Page 2

In the fifth year projected costs will be about \$1,700.00 per month per tractor. this breaks down as follows per tractor:

Rebuilt Engine	\$ 8,000.00	
Spring Replacement	1,200.00	
Transmission Rebuilt or Rear End Rebuilt	2,400.00	
Cab Repair	1,000.00	
	<u>\$12,600.00</u>	or \$1,050.00 per month per tractor to be added to third year costs(est.) of \$650.00.

Adding it all up each tractor will cost \$20,400.00 to maintain in 1988. Many items are not planned for replacement, but could go bad. Some of these items are radiators, axles, frame, steering components, and wheel bearings. This is a big difference considering first years of cost and what we will have at the end of 1988. This leads to the next consideration.

Trade In Timing:

To insure top value at the best time in replacing equipment-cost of owning has to be assured in comparison of replacement cost. Our tractors cost \$59,000.00 when purchased and amortizing this cost over four years equals about \$15,000.00 per year. Cost of maintaining the tractor over the four years is approximately \$32,400.00 or \$8,100.00 per year. This means the total cost of owning is \$23,100.00 per truck per year. If we proceed to the fifth year this cost will be \$22,500.00. This initially looks fairly good, but we should also include replacement trade in value. If traded now the value would be \$15,000.00. If traded in 1989, the value drops to \$8,000.00. Subtract this from the cost of ownership makes the annual bottom line cost per tractor for four years per year \$19,350.00 and per year for five years the cost is \$20,900.00. Still these figures are close. Now to the next consideration.

Down Time Cost:

In Solid Waste down time is lost time and is expensive. A minimum of one month lost tractor time is anticipated because of aged equipment. Typically a month is lost to regular maintenance, so expected down time will be a minimum of two months. A new tractor would be less than a month. A replacement tractor has to be run and the replacement is in the same condition, so hence double break downs are a reality due to the law of averages. To chance this everyday for a year is just burdening the system. New equipment has fewer surprises. Rebuilt equipment has no guarantees. If a rebuilt engine blows up we spend another \$8,000.00. If a new engine blows up, warrantee will cover the costs nine times out of ten. Down time is serious business when we are ill-trained, half equipped, and lacking in tractor maintenance personnel. The track record of engine rebuilds in our

COST ANALYSIS OF SOLID WASTE TRACTOR TRAILERS

Cont'd

Page 3

situation leaves much to be desired. Do we want to take the chance? Garbage does not stop. Break downs on the road are the most expensive in all aspects. Trucking companies admit that the most expensive repair is when it happens on the road. With a shoestring budget and the lack of trained personnel, preventive maintenance is about half of what it should be. Drivers do 90% of all preventive maintenance and I know of none who have had formal education in maintenance. The element of risk grows with the age of the equipment. Efficiency of operation decreases which leads to the next consideration.

Equipment Specifications:

Equipment is specifically purchased to do a job. Careful planning and bid specifications are drawn to get the most efficient cost effective price of equipment for the job. Technology of 1983 gave us what we have operating today. Many considerations of that time have technically changed on the positive side. Also we have learned much in terms of bettering things such as fuel efficiency, drive lines, and engines. A good comparison is the 1950 model Oshkosh Tractor still operating in the Highway Division. Yes it is still running but, it is about 50% as efficient as the Mack Tractor. This is time and money. We can brag about its age, but it takes twice the time to do the job. This is true with our tractors. Replacement tractors will not save 50% of the cost from the experience we have gained and the new technology in tractors a significant savings can be found. Fuel efficiency for example: our tractors average 3.8 to 4.1 miles per gallon. The engines available today would increase this average to 6 to 7 miles per gallon. We consume 12,500 gallons of fuel for each tractor per year. The new tractor would consume 8,500 gallons. For three tractors this total consumption savings of 12,000 gallons of fuel per year. With projected fuel costs doubling in 1988, this would be a substantial savings.

Another example to consider is traveling time. Currently, with the existing drive line, our tractors are under powered. Increasing horse power and increasing fuel efficiency will provide a decrease in travel time and an increase in operations efficiency. Operating costs will be cut down drastically.

All in all many specification changes would be made to increase overall operation efficiency.

The most important aspect is developing a replacement program. This is the last consideration.

Replacement Program:

The purchase of three tractors at one time created the problem and so when we replace the equipment is now to be addressed. If two tractors are replaced now (the old tractor and one of the three), two tractors remain, one of which will serve as a backup and only operate approximately 4 months of the year, thus saving this tractor and the second tractor, being the best of the three will operate on a full time basis and will have the lowest cost of operation. In

COST ANALYSIS OF SOLID WASTE TRACTOR TRAILERS

Cont'd

Page 4

each of the next two years one of these tractors will be replaced. That puts a replacement program on a staggered basis in place, that is one tractor per year. We would skip the 1991 year and start again, one tractor per year in 1992. Each tractor would be four years old at replacement time.

Mr. Kelley reported on a meeting with D.E.C. regarding the new design of the landfill. Many questions were answered and the project is underway.

Mr. Kelley reported that tires were being accepted at Wellsville and the landfill only. Mr. Allen asked if tires could be collected and sliced at each transfer station. Mr. Kelley responded that the extra work at the transfer stations would require additional manpower and every tire handled by the division costs money. Mr. Kelley called for the support of the private sector to handle tires. Mr. Allen suggested that efforts be made to encourage the private sector in the tire disposal and recycling area.

Mr. Roeske requested entry upon private lands for stream work along County Route 10. Many attempts have been made to contact the land owners and all were unsuccessful. Motion by Mr. Mogavero; seconded by Mr. Saylor that permission be granted subject to review by the County Attorney's office. Carried

Mr. Roeske reported that the re-alignment of County Route 6 and County Route 20 are completed and the Pine Street Bridge in Alfred is also complete.

Mr. Watson commented on a meeting held with SUNY at Alfred and Alfred University officials concerning County Route 12. Another meeting is scheduled for December 17, 1987.

Mr. Hanson Requested transfer of funds from account D 5020.427 to 5020.405 in the amount of \$94.73 and from account A 1620.428 to A 1620.429 in the amount of \$85.00. Motion by Mr. Hitchcock; seconded by Mr. Wentworth. Carried

The Committee toured the Friendship Shop facility.

Motion to approve payment of the bills made by Mr. Mogavero; seconded by Mr. Wentworth. Carried

Motion to adjourn made by Mr. Saylor; seconded by Mr. Hitchcock. Carried

Meeting adjourned at 10:30 A.M.

Respectfully submitted,



David S. Roeske
Deputy Superintendent I

EDWARDS AND MONCREIFF, P. C.

ENGINEERS AND SURVEYORS

LEES EDWARDS, P.E. & L.S.
CULLEN D. MONCREIFF, JR., P.E.
GLENN D. COOLEY, P.E.

482 S. CASCADE DRIVE, P.O. BOX 159
SPRINGVILLE, NEW YORK 14141-0159
716 592-2851

FRANK J. JANER, P.E. & L.S.
ROY R. PEDERSEN, P.E.
MARK L. WELLES, L.S.

November 30, 1987

Allegany County Dept. of Public Works
Mr. William Hanson, Supt.
County Building
Belmont, NY 14813

RE: Landfill Project

Dear Bill:

An article from the Detroit Free Press has come to our attention, and a copy is enclosed. Incinerator ash is a problem in Michigan, also.

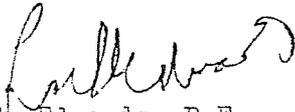
We again point out the necessity to have such items as incinerator ash and sewer plant sludge tested and approved as being non-hazardous. We, further, suggest you ask DEC for specific approval prior to accepting such materials; and that tests be performed periodically, with results sent to DEC each time. Also, obtain a DEC approval each time. If the waste is hazardous, the County should not accept it at all.

We feel very comfortable with the landfill as it is intended: a municipal landfill which exceeds requirements of DEC regulation part 360. IT IS NOT A HAZARDOUS WASTE LANDFILL.

We would predict nothing but extreme problems in the future, if hazardous waste is accepted. Potential remediation costs could be staggering.

We don't want to appear unduly pessimistic, nor do we want to see problems in ongoing relationships with other government entities; but we also believe the area waste disposal situation is going to worsen. Thus, we urge you to accept only normal "Part 360" waste. If an error is made, make it on the safe side.

Very truly yours,
EDWARDS & MONCREIFF, P.C.



Lee S. Edwards, P.E.
President

dss
enc.

cc: Max Allen
John Spagnoli
Senator Jess Present

Detroit Free Press

Section A, Page 3

SECOND FRONT PAGE

Friday, November 27, 1987

lottery extra

Wednesday's number, 460, has been drawn seven times before: on 3-20-78, 7-23-79, 12-8-81, 8-12-82, 12-21-82, 3-21-83 and 7-3-84.

Lottery line 1-976-2020

State to test ash from 2 incinerators

By BOB CAMPBELL
Free Press Environment Writer

The state will test ash from two suburban Detroit municipal incinerators because of mounting evidence that incinerator ash contains high levels of toxic materials.

At issue is whether the ash can be buried safely in municipal landfills that are not required to meet the same groundwater protection standards as hazardous waste landfills.

Neither the Grosse Pointes Clinton Incinerator Authority in Clinton Township nor the Southeastern Oakland County Incinerator Authority in Madison Heights has tested the ash they produce, operators said in interviews last month.

That's why the state Department of Natural Resources wants to know what's in the ash, said Al Howard, chief of the DNR's waste management division.

"Under the hazardous waste regulations, there is no specific requirement to test the ash, but there is a requirement to properly manage their waste," Howard said.

If incinerator ash has unacceptable levels of toxic materials,

Toxic level at issue for safe landfill burial

regulations require that it be shipped to a hazardous waste landfill.

Earlier this week, the U.S. Environmental Protection Agency released results of a study of four unnamed incinerators that showed high levels of dioxin, cadmium and lead in the fly ash and lesser amounts in the bottom ash. Most incinerator operators mix the ash before sending it to landfills.

The EPA classifies waste as hazardous if more than one part per million of cadmium or five parts per million of lead leak from the ash when an acid solution is poured through it. In the EPA test, most of the ash from the four incinerators failed the tests. Lead exceeded the standard by as much as seven times; cadmium

exceeded the standard by as much as four times.

DIOXIN COMPOUNDS in fly ash at the four incinerators reached the equivalent of as much as 780 parts per billion of the most toxic form of dioxin. The EPA does not have a dioxin standard.

Gerry Dorian, an EPA scientist who worked on the study, said: "We do not claim the study was representative of incinerators. It was designed as a first cut at establishing some baseline information and flagging some areas of concern."

Within the next few months, the EPA likely will propose new regulations for handling and disposal of ash, Dorian said. The agency may require ash to be buried in separate cells or holes within municipal landfills. Such cells could prevent the ash from being exposed to acids found in decomposing trash. The acid can leach metals through landfill barriers and into groundwater.

The EPA also wants closer attention paid to the handling of ash between the incinerators and landfills to minimize exposure

See ASH, Page 15A

State to test incinerators' ash

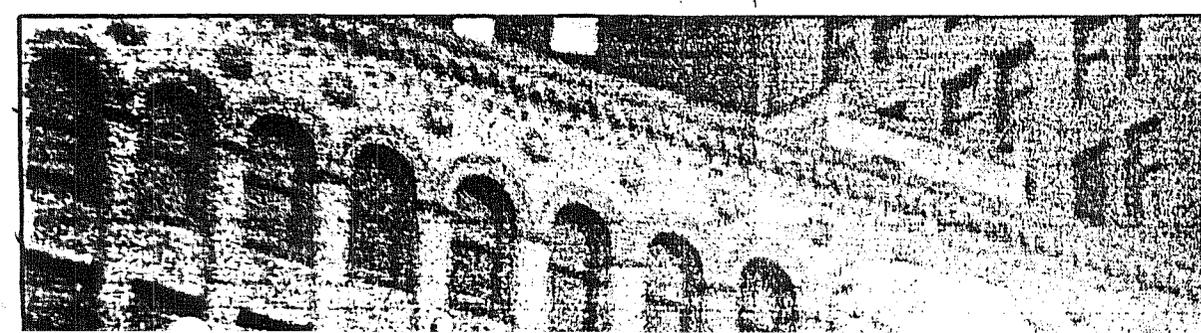
ASH, from Page 3A

to dust from it, Dorian said.

State and federal officials say the ash issue will become more important as the number of incinerators grows. The EPA estimated there were 107 municipal incinerators in 1986. Some 193 new incinerators will be operating by 1993, the agency estimates. The

City of Detroit's 3,000-ton-a-day resource recovery plant, scheduled to open in 1989, will be one of the nation's largest.

Jackson County recently began tests of its new waste-to-energy incinerator, and plants are being planned or under construction in Macomb, Oakland, Kent and Muskegon counties.



J. Margison
NOT
APPROVED

PUBLIC WORKS COMMITTEE MEETING
DECEMBER 21, 1987

DEC 28 1987

PRESENT: M. Allen B. Hitchcock D. Roeske
 M. Mogavero L. Watson F. Kelley
 A. Saylor B. Hanson J. Hopkins

- AGENDA: 1) Approval of minutes of December 7, 1987
 2) Audit of the bills
 3) Solid Waste
 4) Transfer of funds
 5) CHIPS Capitol Project request
 6) Auction of old personal property
 7) Letter from Snowmobilers Federation
 8) Erskine letter, re: Brown Road/CR-32

The meeting was called to order at 8:30 A.M. by Chairman Allen.

Motion to approve the minutes of the December 7, 1987 meeting made by Mr. Mogavero and seconded by Mr. Hitchcock. Carried.

Mr. Allen read a letter from a Mr. Howard Erskine concerning a drainage problem on CR-32 which maybe affecting his septic system. Mr. Allen suggested that he and Mr. Roeske along with anyone else interested review the problem at location on Tuesday, December 22, 1987.

Mr. Watson reported that Mr. Ivan Quaintance has offered \$225.00/acre for the purchase of County property in Angelica on Swift Road. Motion to accept the offer made by Mr. Hitchcock and seconded by Mr. Mogavero. Carried

Mr. Roeske presented an offer from Mr. Dean Harvey of Canaseraga for the purchase of the County's Sand and Gravel Pit in Almond. Said offer will be taken into consideration.

Bids were opened for tires and tubes to be supplied in 1988. One bid was received from Main Tire Company, Dansville, New York.

Bids were opened for the purchase of one new wheel loader. The following Companies submitted bids:

<u>COMPANY</u>	<u>BID PRICE w/TRADE</u>
S. C. Hansen	\$61,874.00
5-Star Equipment	68,123.00
L. B. Smith	59,850.00
Dow & Co., Inc.	63,718.00
D & K Trojan Co.	57,872.00
Syracuse Supply	81,958.00
Nuttall Equipment Co.	64,975.00

Bids will be reviewed and award made on January 4, 1988.

Mr. Roeske read a letter from the Allegany County Federation of Snowmobilers. They have requested snowmobile crossing signs on CR2. The Committee felt that if these signs were erected more requests would materialize causing a financial and liability problem. The letter was referred to the Planning and Historical Committee for their review and comments.

Mr. Kelley reported that Steuben County had contacted him in regards to the use of the County Landfill. Mr. Kelley responded by telling them that space was limited and Allegany County would not be able to handle their waste.

Mr. Kelley reported that sludge will be landfilled from the City of Olean sometime in January, as soon as we start hauling leachate to them.

Mr. Kelley passed out material regarding the Allegany County Recycling Education Program (ACREP). See attached.

Mr. Allen asked if the County was accepting construction wastes. Mr. Kelley responded that the practice is discouraged, but because of a lack of local laws the County must either take the material or send it to Patton's with the County paying the Tipping Fee. This problem will be addressed in the Source Separation Law.

Mr. Kelley reported that he has requested proposals from various firms in regards to groundwater monitoring. Alfred Analytical is now performing this function. All proposals will be reviewed and the results reported to the Committee.

Mr. Kelley passed out copies of a proposed contract between Allegany and Cattaraugus Counties in regards to ash disposal. Mr. Guiney, Assistant County Attorney is reviewing the proposed contract and Committee members should review and formulate questions.

Mr. Hanson requested that resolutions be prepared to set up additional CHIPS Projects from surplus funds of 1987 Capital Projects. Motion was made by Mr. Saylor and seconded by Mr. Hitchcock. Carried
County Attorney to prepare Resolutions.

Mr. Hanson reported that he has closed two town bridges to all traffic:

- 1.) Crandall Road Bridge - Town of Angelica
- 2.) Ormel Hill Bridge - Town of Caneadea

Both Supervisors and Superintendents have been notified. Mr. Hanson asked, if when actions of this type are taken, would the Committee like to have the district legislators notified. It was felt by the Committee that the district Legislators would appreciate the information.

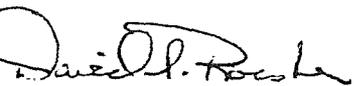
Mr. Hanson requested permission to dispose of certain County personal property. The Committee suggested consignment in an auction. Mr. Hanson will look into this possibility. Mr. Saylor suggested checking with Central Service Committee in regards to spare typewriters.

Mr. Hanson requested a transfer of funds from Account D5142.431 to D5142.408 in the amount of \$37,500.00. Motion was made by Mr. Hitchcock and seconded by Mr. Mogavero. Carried

Motion to approve payment of the bills made by Mr. Saylor and seconded by Mr. Mogavero. Carried

Motion to adjourn at 12:00 P.M. made by Mr. Hitchcock; seconded by Mr. Saylor. Carried

Respectfully submitted,



David S. Roeske
Deputy Superintendent I

DSR:ned

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Tefft 105
Alfred University
Alfred, NY 14802
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Fred Kelly
Allegany County Dept. of Public Works
Division of Solid Waste
Belmont, NY 14807

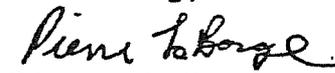
Dear Fred,

I greatly appreciate your time and input concerning ACREP (Allegany County Recycling Education Program) the last time we met on the 16th. I am pleased and excited about the direction ACREP is taking and hope that our combined energy will get the ball rolling in full force at the start of the new year.

Enclosed is a program outline describing briefly what we talked about on the 16th, a program objective for the spring semester of 88', a County job application and a invoice for funds up to the end of 1987.

I am looking forward to speaking with you on the 22nd, in hopes that our plans will be granted by the public works committee. Thank you again and I am looking forward to working with you at the start of the year.

Cordially,


Pierre LaBarge

ACREP

Allegany County Recycling Education Program

Spring of 1988 Program Objective

Purpose:

The initial objective of ACREP will be to design and publish informative literature to distribute to the county constituency. The plan's initial thrust is to introduce the public to the new "sort-separation" law while also making them aware of the feasibility of municipal waste recycling. Secondly, press releases and other publicity will be used to assist in educating the general public about Allegany County's solid waste problem and the solution to this problem, mandatory "sort-separation".

Another component of this objective will be the ongoing task of searching out educational materials for the network of materials already collected. This material will be used for analysis and planning of Allegany County's future Educational program effectiveness.

In addition, a Alfred University student group, with the assistance of faculty and staff, will develop a pilot recycling program within the university that will enhance the program's effectiveness.

ACREP

General Outline and Goals for Allegany Counties Recycling Education Program

Abstract

The goal of the project is to develop a program to educate the people of Allegany County about the importance of municipal solid waste recycling. The program will be implemented through a series of tiers reaching adults first on a practical and economic level, followed by children on a fun oriented learning level in the schools.

- Tier 1:
- Informative pamphlets and fact sheets sent to each resident explaining the "sort-separation" law and the county solid waste problem.
 - Press Releases to local newspapers and radio stations.
 - Cost/Benefit education for solid waste contractors.
 - A massive advertising campaign
Ex. Bumper stickers, Billboards, Etc.

- Tier 2: - Educational programs designed to gain

support from local governments through town meetings.

Ex. Videos, Slide shows, presentations etc.

- Coordinating networks enabling town governments to work together in educating residents effectively.
- Harnessing a sense of pride from the people in the County for being the first county in the State of New York to implement such a law.

- Tier 3:
- Networking recycling educational materials for elementary and secondary curriculum in Allegany County's schools.
 - Developing and promoting school wide recycling drives to raise funds for other school activities.
 - Encouraging young people to make sound environmental decisions today for a prosperous tomorrow.

Implementation Period

The "sort-separation" law will state that in three years all of Allegany County must separate certain components of the municipal waste stream. The goal of this educational program is to foster and develop smooth integration periods between these tiers enabling public acceptance both on a social and economic level over the three year period.