

C I T Y O F T H O R O L D
M U N I C I P A L F I R E P R O T E C T I O N P L A N
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CITY OF THOROLD

FIRE DEPARTMENT

FINAL DRAFT

FEBRUARY 14, 1991

TABLE OF CONTENTS

<u>SECTION 1</u>	<u>INTRODUCTION</u>	<u>PAGE</u>
1.1	PURPOSE OF THE PLAN	1
1.2	REASONS FOR THE PLAN	1
1.3	SCOPE OF THE PLAN	2
1.4	PLAN FORMAT	2
1.5	COMMITTEE MEMBERS	2
 <u>SECTION 2</u>	 <u>FIRE MARSHALS OFFICE RECOMMENDATION</u>	
2.1	BACKGROUND	3
2.2	RECOMMENDATIONS	4
 <u>SECTION 3</u>	 <u>FIRE UNDERWRITERS SURVEY</u>	
3.1	BACKGROUND	13
3.2	RECOMMENDATIONS	14
 <u>SECTION 4</u>	 <u>A TEN YEAR MUNICIPAL FIRE PROTECTION PLAN</u>	
4.1	A TEN YEAR PLAN	20
4.2	CAPITAL COST FORECAST	25
4.3	FIRE COMMITTEE ESTIMATES AND PROJECTIONS	26

SECTION 1 INTRODUCTION

1.1 PURPOSE OF THE PLAN

In Oct. 1987, the City of Thorold embarked on a study of the Fire Department to review the existing Fire Protection Facilities and Services to determine what changes if any, should be considered in order to improve the efficiency and effectiveness of the department.

The Plan establishes a recommended course of action to guide the provision of Fire Protection services and facilities in Thorold to the year 2000.

1.2 REASONS FOR THE PLAN

In addition to the need to provide a path to follow into the next century, other reasons were noted for the study as follows:

1. Fire Stations, Buildings and Locations:

- (i) Station #1 - Staff have expressed concern that office space is inadequate for the day to day operation of the department. The station is not located where the potential demand will be greatest or most central for multiple station responses.
- (ii) Station #2 - Firefighters have expressed concerns that the station is inadequate in size, difficult to maintain and not centrally located in the normal response area.
- (iii) Station #3W - This station is owned by the St. Lawrence Seaway Authority. It is not suitable for use as a fire station and would require extensive renovations to bring it up to a minimum standard. The station is not located centrally.

2. Manning

- (i) District #1 - Staff expressed concerns over dangerously low firefighter turnout for emergency calls during daytime hours and the lack of an immediate manned response at anytime within the City. The number of calls requiring the volunteer firefighters to respond was also of concern.
- (ii) District #3 - The total number of firefighters operating from this station (7) is inadequate. Average response was less than 3 firefighters per call.

3. Pelham Agreement

Staff expressed concerns and reservations regarding the adequacy of the reciprocal agreement with the Town of Pelham that is now in effect.

1.3 SCOPE OF THE PLAN

1. The Plan covers the whole of the City of Thorold.
2. Review the present fire station locations and buildings to determine if they are best located and adequately sized to serve present and future needs.
3. Review the manpower, both full-time and volunteer to determine if it is adequate to serve present and future needs.

1.4 PLAN FORMAT

Complete detail on the background review and other pertinent data has been made available under separate cover. The recommendations of the Fire Marshals Office are outlined in Section II, the recommendations of the Fire Underwriters Survey are outlined in Section III and this Committee's recommended prioritized plan is detailed in Section IV.

1.5 COMMITTEE MEMBERS

At a meeting of Council on October 24, 1989, a committee was established and given a mandate to prepare a Municipal Fire Protection Plan for the Corporation of the City of Thorold. The Committee is composed of the following members:

- (a) Mayor W. C. Longo
- (b) Councillor F. Neale - Chairperson
- (c) Councillor M. Striliski - Vice-Chairperson
- (d) K. R. Todd - C.A.O.
- (e) Fire Chief L. R. Jane
- (f) Deputy Fire Chief K. P. Roach
- (g) P. Sorrell - Local 1182
- (h) R. Stewart - District Chief District #1
- (i) R. Burke - District Chief District #2
- (j) S. Elson - District Chief District #3
- (k) P. Bronn - District Chief District #4

SECTION 2 OFFICE OF THE FIRE MARSHAL, REPORT ON
FIRE STATIONS, PERSONNEL AND RESPONSES

BACKGROUND

2.1 In September 1987, the Council of the Corporation of the City of Thorold requested the Office of the Fire Marshal to conduct a fire station location, manning and response evaluation study for the City of Thorold Fire Department. The study was completed by Services Advisor J. Wm. Jones, with assistance from his supervisor - David Fields.

Most of the essential information required by Mr. Jones was provided by Mr. G. Atack, Planner/Deputy Clerk, Fire Chief L. Jane and Deputy Fire Chief K. Roach.

Additional data was reviewed from the following sources:

1. Previous fire station location studies.
2. Response statistics reported to the Office of the Fire Marshal.
3. Response reports completed by the Thorold Fire Department.
4. Physical assessments of the fire stations and response areas each covers.
5. The Handbook of Municipal Fire Protection in Ontario.
6. Previous experience of the local Fire Services advisor in Thorold.
7. Current and previous comment of fire department personnel: full-time and volunteer.

The Fire Marshals Office Report was completed and presented to Council on April 24, 1989. Council accepted the Report for information purposes and referred it to the Ad Hoc Committee.

2.2 FIRE MARSHALS OFFICE RECOMMENDATIONS

The recommendations of the Office of the Fire Marshal are as listed below with the action of the Committee following the recommendations:

FIRE MARSHALS RECOMMENDATION #1

1. *"The council form a committee consisting of such members as deemed necessary, including the fire chief and deputy fire chief, to formulate and present a five year development plan to council in 1989 for their approval or amendment if required."*

The committee was formed and now submits this Municipal Fire Protection Plan as their initial report. The committee chose to formulate a 10 year plan rather than a 5 year plan as recommended so as to spread expenditures over a greater number of years. Also the plan includes all normal capital costs for ongoing vehicle replacements in order to show major 10 year expenditures.

FIRE MARSHALS RECOMMENDATION #2

"A new fire station be constructed in the vicinity of Highways 20 and 58 in 1990, of sufficient size to accommodate three apparatus bays, a meeting/lecture room, office space for the officer in charge and training accommodations for the firefighters to replace the existing Station #2."

BACKGROUND

Station #2 was constructed in 1927, with renovations being done in the 1950's and again in the late 1970's. Due to its age, the building has become increasingly difficult to maintain and at times poses hazardous conditions. Inadequate floor space in the truck bays makes it difficult for the firefighters to perform their regular maintenance duties on the vehicles and equipment. The station is located on Allanburg Road, south of Niagara Falls Rd. It is on the boundary of the normal response area, not centrally located.

The committee agreed that a new station should be constructed to replace the existing station and it should be located in the area of Highway 58 between Allanburg Road and Highway 20.

Committee Recommendation #1

That land be obtained in 1991 in the vicinity of Highway 20 and Highway 58 for the construction of a replacement fire station for Station #2 in the year 1993. The station shall be sufficient in size to accommodate 3 apparatus bays, a meeting/lecture room, office space for the officer in charge and training accommodations for the firefighters.

Committee Recommendation #1 cont'd.

The existing station #2 to be sold and the revenues be applied towards the purchase of land and the construction of the new fire station.

FIRE MARSHALS RECOMMENDATION #3

"A new fire station be constructed in the vicinity of Highway 20 and Merrittville Highway in 1992, of sufficient size to accommodate three apparatus bays, a meeting/lecture room, office space for the officer in charge and training accommodations for firefighters to replace Station 3 West and Station 4."

BACKGROUND

Station 3 West is owned by the St. Lawrence Seaway Authority. The structure is virtually a large metal garage equipped with two sliding doors which necessitates pulling one vehicle out and then sliding both of the doors back over to permit exit of the second vehicle.

The truck bays are inadequate in size. They do not allow the firefighters enough space to perform routine maintenance on the vehicles and equipment. The floor is dirt and gravel. The station is located at the east end of Port Robinson Road, certainly not central in their normal response area. The existing building does not meet minimum building and fire safety standards and would be very costly to try and upgrade.

The committee agreed that a new station should be constructed to replace the existing Station 3 West and that it should be located in the vicinity of Port Robinson Rd. and Merrittville Highway. The committee did not agree however that Station 4 should be closed and combined with Station #3 West at this time.

Committee Recommendation #2

That land be obtained in 1991 in the vicinity of Port Robinson Rd. and Merrittville Highway for the construction of a replacement fire station for Station #3 West in the year 1991. The station shall be sufficient in size to accommodate 3 apparatus bays, a meeting/lecture room, office space for the officer in charge and training accommodations for the firefighters.

FIRE MARSHALS RECOMMENDATION #4

"Land be obtained as soon as possible in the Confederation Heights area, in the vicinity of Collier Road for construction of a new fire department headquarters station."

FIRE MARSHALS RECOMMENDATION #5

"A new headquarters fire station be constructed in 1991 in the Confederation Heights area of sufficient size to accommodate four apparatus bays, a meeting/lecture room, office space for the fire chief, deputy chief, training/fire prevention officer and administrative staff and training accommodations for the firefighters to replace the existing Station #1."

BACKGROUND

Station #1, although relatively modern in design, is small in size. It lacks adequate space for administration, storage and routine activities. The station is centered in the core of the downtown area. With the development that has taken place in Confederation Heights and the Brock Industrial Park, it is no longer centrally located in the area that it provides protection to. Also it does not meet present day needs. The committee agreed that a new headquarters station should be built in the Confederation Heights area in 1998.

Committee Recommendation #3

That land be obtained in the Confederation Height area in 1995 in the vicinity of Collier Road for the construction of a new headquarters station in the year 1998 and that monies gained by the sale of the existing Station #1 be used to offset this incurred cost.

Committee Recommendation #4

That an addition be added in 1991 to the present Station #1 in order to provide adequate administration and storage space.

FIRE MARSHALS RECOMMENDATION #6

"Fire Station 3 East be renovated and the necessary plumbing updates be made when the services are in place in Port Robinson."

BACKGROUND

This station was constructed in 1932 and was renovated in 1953. Although small in size, there is adequate floor space to provide routine duties. The station is suitably located to provide fire protection to the area it covers. The committee agreed that this station should remain where it is and that renovations and updates should be made.

The sewers have been installed since the report was prepared and plumbing updates have been completed. Further renovations such as the replacement of truck bay doors and windows are scheduled to take place in 1991 and succeeding years.

No recommendation of the committee was required as the renovations and updates are currently being addressed.

FIRE MARSHALS RECOMMENDATION #7

"The full-time complement be increased by six persons over the next five years commencing in 1989."

BACKGROUND

The present complement of full-time firefighters (6) that are scheduled on 24 hour shift coverage, does not permit a guaranteed immediate initial response to any incident in the City of Thorold.

This has been identified as a concern in past fire department surveys as well as a submission to this regard in this present survey.

It is also a concern of the chief officers' of this department. By the addition of a minimal number of full-time firefighters, this concern would be rectified.

In order to limit the number of full-time personnel needed to provide for an immediate minimal manning response, it would be necessary to replace the present existing normal communication receiving and dispatching procedures and locate it at another competent dispatching centre.

This would then guarantee an immediate minimal manning response anywhere in the City for any type of incident regardless of the time of day. This would also help to alleviate the frequency of responses now required of the volunteer firefighters for such calls as lock-outs, investigations, medical assist calls and infractions or complaints of the Ontario Fire Code or City by-laws.

Committee Recommendation #5

That the full-time complement of firefighters be increased by six (6) persons over the next 4 years as follows:

1991 - (1) one firefighter
1992 - (2) two firefighters
1993 - (2) two firefighters
1994 - (1) one firefighter

Committee Recommendation #6

Communications including the receiving of emergency calls and the dispatching of fire department vehicles to emergencies be contracted to the St. Catharines Fire Department.

FIRE MARSHALS RECOMMENDATION #8

"Sufficient volunteer persons be recruited to provide a minimum complement of 35 at Station 1 and Station 2 and Station 3 East increase their complement to 25 persons."

BACKGROUND

The total number of volunteer firefighters at the time of the survey was below allotted number. This has recently been rectified by the addition of more volunteer firefighters.

FIRE MARSHALS RECOMMENDATION #9

"Upon completion of the fire station replacing 3 West and 4, a complement of 35 volunteers be assigned to this area."

NOTE: Should all of the members from 3 West and 4 wish to relocate to the new facility, this should be encouraged until the complement reaches 35 through natural attrition.

Committee Recommendation #7

Station #4 not be reassigned at this time.

FIRE MARSHALS RECOMMENDATION #10

"Station 3 West increase their minimum complement to 15 persons as soon as possible."

BACKGROUND

This has been completed.

FIRE MARSHALS OFFICE RECOMMENDATION #11

"The fire chief and deputy fire chief establish criteria for the recruitment of the volunteers required in order to ensure maximum availability of first attack response teams at all times."

BACKGROUND

This is presently being handled through the District Chiefs of each District.

FIRE MARSHALS OFFICE RECOMMENDATION #12

"The fire chief and deputy fire chief formulate a practical plan or set of procedures in conjunction with the district chiefs, establishing all responses, reserve requirements and additional personnel where required."

BACKGROUND

This will be completed upon acceptance of parts of this Study.

FIRE MARSHALS OFFICE RECOMMENDATION #13

"The fire chief and deputy fire chief evaluate all of the 1989 responses and examine the feasibility of a volunteer shift or platoon system and selected response teams for specialized calls such as medical assists or extrication utilizing volunteer members."

BACKGROUND

This will be completed upon acceptance of parts of this Study.

FIRE MARSHALS RECOMMENDATION #14

"The practice of the firefighters from Station 3 West attending training sessions at Station 3 East be discontinued immediately and alternative arrangements be made for regular training within their response area."

BACKGROUND

This has been completed and is presently in effect.

FIRE MARSHALS RECOMMENDATION #15

"Upon completion of the fire stations and staffing, the fire chief evaluate the possibility of having some of the volunteer members respond directly to the emergency scene rather than their respective response area."

BACKGROUND

This will be completed upon acceptance of parts of this Study.

FIRE MARSHALS RECOMMENDATION #16

"Consideration be given to the re-alignment of some of the duties of the training/fire prevention officer in order to have him available for first responses when the full-time complement is down for any reason."

BACKGROUND

This is presently in place and being done.

FIRE MARSHALS RECOMMENDATION #17

"Upon completion and staffing of the station replacing Station 3 West and 4, Pelham be notified in accordance with the agreement that their services are no longer required by Thorold."

BACKGROUND

The Pelham agreement came into effect when the bridge in Port Robinson was destroyed and no fire protection on the west side of Port Robinson was available.

Also, it was continued after Station #3W went into operation because of the low number of volunteer firefighters on this side.

We now have an adequate number of firefighters on this side with many of them residing in the area covered presently by Pelham Fire Department.

Committee Recommendation #8

That the reciprocal agreement for the provision of firefighting services with the Town of Pelham be cancelled. Fire protection in the area of Thorold now provided by Pelham would be provided by District #3W and District #4.

FIRE MARSHALS RECOMMENDATION #18

"The fire chief report to council respecting the action to be taken respecting the area of Pelham presently serviced by Thorold considering the status of the existing Station #4 and Pelham's request or needs."

FIRE MARSHALS RECOMMENDATION #18 cont'd.

BACKGROUND

This arrangement is presently in effect under the existing Pelham Fire Agreement in which we cover the north east area of Pelham.

Station #4 will now automatically be responding to incidents in the 3 West fire area of Thorold.

Committee Recommendation #9

That after the Pelham fire agreement has been terminated that consideration be given to the contracting of fire protection to the Town of Pelham in the area now protected by District #4 on a monetary per call basis for a specified period of time.

FIRE MARSHALS RECOMMENDATION #19

"During the last year of Thorold's five year development plan, the Office of the Fire Marshal be requested to conduct a complete municipal fire protection survey addressing all aspects of fire protection within the city."

BACKGROUND

This request must be made by Thorold City Council.

SECTION 3 FIRE UNDERWRITERS SURVEY

BACKGROUND

3.1 In August 1988, a survey of the fire defences of the City of Thorold was conducted by Fire Underwriters Survey for insurance classification purposes. The Fire Underwriters Survey is an independent organization, financed and directed by the Insurance Bureau of Canada. In the preparation of this report, the technical staff of the Insurance Advisory Organization is utilized.

The Insurance Advisory Organization uses the results of the survey to classify a municipality, or area for insurance purposes. Insurance companies use this classification to determine the premium rate to be paid for property insurance, in the area surveyed.

Municipalities are rated on scales as listed below:

A scale of 1 - 10, with 1 being the highest rating and 10 being the lowest rating. The City of Thorold areas are rated as follows:

1. Thorold - Rating of 5
2. Thorold South - Rating of 5
3. Port Robinson - Rating of 6
4. Rural Area - Rating of 9

RECOMMENDATION

- 3.2 The following recommendations were made by the Insurance Advisory and are directed toward the elimination of significant deficiencies in the fire protection facilities of the municipality of Thorold, relative to the widely recognized standards of fire Underwriters Survey. They are offered to the municipality to assist officials in providing improved conditions with respect to control of life and property losses in the community.

A total of 13 recommendations were made. Many of the recommendations have been instituted as a matter of departmental policy, rather than being treated by recommendations of this Committee.

FIRE UNDERWRITERS RECOMMENDATION #1

While the water supply facilities in the community of Port Robinson do provide some water for fire protection, they may prove to be inadequate in the event of a major fire. It is recommended that the basic water supply facilities, in conjunction with storage, be increased to meet the maximum daily consumption rate plus a basic fire flow of 6,400 L/min (1400 I.g.p.m.) for a duration of 2 hours.

This recommendation is considered by the Fire Underwriters Study to be of prime importance.

BACKGROUND

The water supply facilities are under the control of the Regional Niagara. Considerable improvements were made to the pumping system in 1990 and this has improved water flow in the Port Robinson area for firefighting purposes.

The City of Thorold Engineering Department is monitoring the system on a continuing basis.

FIRE UNDERWRITERS RECOMMENDATION #2

Where fire flow tests indicate the available water supply to various areas may be insufficient in the event of a major fire, it is recommended that the distribution grid be suitably reinforced where so indicated.

FIRE UNDERWRITERS RECOMMENDATION #2 cont'd.

BACKGROUND

The distribution system is maintained by the Engineering Department of the City of Thorold. Modifications have been to improve the water flow in some areas of the downtown and in the Thorold South area. The engineering department plans to improve the system in stages, in succeeding years.

FIRE UNDERWRITERS RECOMMENDATION #3

It is recommended that all appointments and promotions be made under requirements which will assure the selection of the best qualified persons. These requirements include practical, oral and competitive written examinations. Suitable standards for appointments and promotions should be prescribed with consideration given to seniority and record of experience. Personnel should be removed from their positions only for just cause.

This recommendation is considered by the Fire Underwriters Study to be of prime importance.

BACKGROUND

An officers' training program is in the process of being set up by the Training Officer, in conjunction with the Deputy Fire Chief. Materials have been purchased and distributed to each District Chief for review. The Training Officer is scheduled to attend an Officers' Training Course at the Ontario Fire College in February of this year and after completion of this course, the training officer will begin training the officers here. The Officers' Training program is scheduled to begin in April, 1991 for the Department.

FIRE UNDERWRITERS RECOMMENDATION #4

In order that the strength of the firefighting force be commensurate with life and property loss potential, it is recommended that the department manning Fire Hall 3 West (Port Robinson) be raised to not less than fifteen (15) active volunteer firefighters, including at least two (2) company officers.

BACKGROUND

The members of District #3 have embarked on a recruitment program and have raised the strength of the firefighting force at Stn.3W to 15 active volunteer firefighters.

Effective January 1, 1991, permission was granted by Council to add one (1) additional officer with the rank of Deputy District Chief to the complement of officers at District #3. Station #3W now maintains three (3) company officers, as does Station #3E.

FIRE UNDERWRITERS RECOMMENDATION #5

It is recommended that in view of its shorter response times and distances, Fire Hall 4 (St. Johns) provide the backup manpower and apparatus to Fire Hall 3 West's coverage area rather than using Fire Hall 3 East as at present.

BACKGROUND

Effective December 4, 1989, 1 pumper from District #4 is dispatched to respond with District #3W to all emergency calls in the District #3W response area.

FIRE UNDERWRITERS RECOMMENDATION #6

It is recommended that a minimum response of two (2) pumpers be made to all structural fire calls in the hydrant protected areas of the municipality.

BACKGROUND

Effective December 4, 1989, 1 pumper from District #2 is to be dispatched to respond with District #3E to all structural fire calls in the District #3E response area. A minimum of 2 pumpers now respond to all structural fire calls in the hydrant protected areas of the municipality.

FIRE UNDERWRITERS RECOMMENDATION #7

It is recommended that all hose, exclusive of hard suction hose, be subjected to an annual recorded test of at least 1700 kPa (250p.s.i.) for a minimum of three (3) minutes. Furthermore, adequate records should be kept of the conditions and the age of each length of hose.

This recommended practice is in place in varying degrees across the City and in the process of being fully implemented.

FIRE UNDERWRITERS RECOMMENDATION #8

It is recommended that all pumpers be tested at draft yearly, a system of records be set up to record these tests. These records will enable the fire department to assess the effectiveness of the preventative maintenance programme, the physical condition of the pumper and the reasonable pumping capacity after the unit has been in service for some time.

This practice is presently being implemented.

FIRE UNDERWRITERS RECOMMENDATION #9

The fire department was found to be deficient in some basic equipment. It is therefore recommended that the following equipment be obtained:

- (a) A portable deluge gun with 35mm (1 3/8"), 38mm (1 1/2"), and 44mm (1 3/4") tips and a large combination nozzle be provided at Fire Hall 3 East (Port Robinson).*
- (b) A minimum of three 65mm (2 1/2") combination nozzles should be carried on each pumper.*
- (c) Salvage equipment including a minimum of four (4) salvage covers and four (4) floor runners per fire hall.*

BACKGROUND

Most of the equipment that was recommended has been purchased and placed in service. It is planned to buy the remainder of the equipment in 1991.

FIRE UNDERWRITERS RECOMMENDATION #10

A standard training programme for all fire halls incorporating all facets of firefighting through the use of modern training manuals and practical exercises should be instituted.

BACKGROUND

In an effort to comply with the recommendation, each district has been issued a copy of "Firefighting Essentials", a training manual produced by the International Fire Service Training Association. Each district has also been issued a collection of standard teaching plans, compiled by the Municipal Fire Department Instructors Association, to be used in conjunction with the Firefighting Essentials Manual.

A Recruit Training Programme has also been prepared by the Training Officer. The first run through of the programme is presently being conducted with 6 new firefighters at Station #1.

FIRE UNDERWRITERS RECOMMENDATION #11

COMMUNICATIONS

As a modern method of alerting volunteer firefighters is essential to ensure a prompt response of apparatus and manpower, it is recommended that the number of pocket pagers be increased so that all members of the fire department are pager equipped.

BACKGROUND

The department is continuing with the objective of equipping all volunteer firefighters with pagers. Presently, 65% of all the volunteer firefighters are now equipped with pagers.

FIRE UNDERWRITERS RECOMMENDATION #12

Fire prevention is an important part of a modern fire department organization. To maintain effective control of hazards and conditions, inspections should be conducted of all institutional properties at least twice yearly and all industrial, assembly and commercial at least annually.

FIRE UNDERWRITERS RECOMMENDATION #13

In view of the need for regular fire prevention inspections and follow-ups in the municipality, consideration should now be given to employing a full-time fire prevention officer.

The committee agrees that a regular fire prevention inspection program and further, that a fire prevention education program in the schools should be instituted.

Fire Committee Recommendation #10

That a full-time fire prevention officer be employed in 1991.

SECTION 4 A TEN YEAR MUNICIPAL FIRE PROTECTION PLAN

A TEN YEAR PLAN

- 4.1 Through the co-operation of Council, the Fire Chief, the officers and the firefighters of the department, the plan can be implemented to enhance the level of fire protection services within the City of Thorold.

This prioritized plan indicates specific action required, the total time frame to both implement and evaluate changes as well as a budget in reflecting the costs involved to attain the objectives. Also included in the fire capital budget forecast are the anticipated capital expenditures for years 1991 through to year 2000. The budget should be reviewed on an annual basis where current figures differ from those projected or become more accurate.

YEAR 1 - 1991

1. Communications including the receiving of emergency calls and the dispatching of fire department vehicles to emergencies be contracted to the St. Catharines Fire Department.

This action satisfies Committee Recommendation #6.

2. The reciprocal agreement for the provision of firefighting services with the Town of Pelham be cancelled. Fire protection in the area of Thorold now provided by Pelham would be provided by District #3W and District #4 and consideration be given to the Town of Pelham in the area now protected by District #4 on a per call basis.

This action satisfies Committee Recommendation #8 and #9.

3. One additional firefighter be employed.

This action partially satisfies Committee Recommendation #5.

4. A fire prevention officer be appointed and should this create a vacancy, the vacancy be filled with an additional firefighter.

This action satisfies Committee Recommendation #10.

5. Land be obtained in the vicinity of Port Robinson Rd. and Merrittville Highway for the future construction of a replacement fire station for Station #3W.

This action partially satisfies Committee Recommendation #2.

6. Land be obtained in the vicinity of Highway 20 and Highway 58 for the future construction of a replacement fire station for station #2.

This action partially satisfies Committee Recommendation #1.

7. Station #1 be renovated to provide additional office space for present day needs.

This action partially satisfies Committee Recommendation #4.

YEAR 2 - 1992

1. A new fire station be constructed in the vicinity of Port Robinson Road and Merrittville Highway of sufficient size to accommodate three apparatus bays, a meeting/lecture room, office space for the officer in charge and training accommodations for the firefighters to replace Station 3W.

This action satisfies Committee Recommendation #2.

2. Two additional firefighters be employed.

This action partially satisfies Committee Recommendation #5.

ADDITIONAL CAPITAL EXPENDITURES

1. New vehicle be purchased to replace Unit #8 (1969 GMC Sqrt).

YEAR 3 - 1993

1. A new fire station be constructed in the vicinity of Highway 20 and 58 in sufficient size to accommodate three apparatus bays, a meeting/lecture room, office space for the officer in charge and training accommodations for the firefighters to replace the existing Station 2.

This action satisfies Committee Recommendation #1.

2. Two additional firefighters be employed .

This action partially satisfies Committee Recommendation #5.

ADDITIONAL CAPITAL EXPENDITURES

1. New vehicle be purchased to replace present Unit #15 (1972 Ford Pumper).
2. New vehicle be purchased to replace present Unit #12 (1978 Van).

YEAR 4 - 1994

1. One additional fulltime firefighter be employed.

This action fully satisfies Committee Recommendation #5.

ADDITIONAL CAPITAL EXPENDITURES

1. Two vehicles be purchased to replace Units #11 and #17 (1973 Tankers).

YEAR 5 - 1995

1. Land be obtained in the Confederation Height area in the vicinity of Collier Road for the construction of a new headquarters station in the year 1998.

This action satisfies Committee Recommendation #3.

ADDITIONAL CAPITAL EXPENDITURES

1. One vehicle be purchased to replace Unit #18 (1974 Van)

YEAR 6 - 1996

1. One vehicle be purchased to replace Unit #13 (1975 Pumper)

YEAR 7 - 1997

1. Two vehicles be purchased to replace Unit #10 (1977 Pumper) and Unit #1 (Car).

YEAR 8 - 1998

1. A new headquarters fire station be constructed in the Confederation Heights area of sufficient size to accommodate four apparatus bays, a meeting/lecture room, office space for the fire chief, deputy chief, training/fire prevention officer and administrative staff and training accommodations for the firefighters to replace the existing Station 1.

YEAR 8 - 1988 continued

This action completes Committee Recommendation #3.

YEAR 9 - 1999

YEAR 10 - 2000

1. Two vehicles be purchased to replace Unit #3 (1980 Telesquirt) and Unit #4 (1985 Rescue).

Fire Capital Budget Forecast
As at November 15, 1990

	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Land Purchases Stn 2	50000									
Land Purchases Stn 3	40000									
Stn 1 Renovations	150000									
Sub - 1991	240000									
Build Stn 3 West		600000								
Unit 8 Replacement(Squirt)		200000								
Sub - 1992		800000								
Build Stn 2			625000							
Unit 15 Replacement(Pump)			200000							
Unit 12 Replacement(Van)			70000							
Sub - 1993			895000							
Replace Units 11 & 17(Tankers)			160000							
Sub - 1994			160000							
Land Purchase Stn 1				250000						
Unit 18 Replacement(Van)				70000						
Sub - 1995				320000						
Replace Unit 13(Pumper)					250000					
Sub - 1996					250000					
Replace Unit 10(Pump)						275000				
Replace Unit 1(Car)						20000				
Sub - 1997						295000				
Build Stn 1							800000			
Sub - 1998							800000			
Sub - 1999									0	
Replace Unit 3(TeleSquirt)										600000
Replace Unit 4(Rescue)										100000
Sub - 2000										700000

Increase over previous year

As at November 15, 1990

ASSUME:

- 1 Capital requirements are similar to those of 1990 and will grow at the inflation rate.
- 2 Benefit Inflation at 7 % of total benefits
- 3 Mat/Svc/Rent at 5% inflation
- 4 Capital Inflation at 10%

ASSUME:

- 1 Capital requirements are similar to those of 1990 and will grow at the inflation rate.
- 2 Benefit Inflation at 7 % of total benefits
- 3 Mat/Svc/Rent at 5% inflation
- 4 Capital Inflation at 10%

Increases over previous year												
	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	
Benefits		7.0%	7.0%	7.0%	7.0%	7.0%	7.0%	7.0%	7.0%	7.0%	7.0%	
Material/Svcs/Rents		5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	
Capital Exp		10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	
Benefits	104465	111778	119602	127974	136932	146517	156773	167747	179489	192053	205497	
Material/Svcs/Rents	285292	299557	314535	330262	346775	364114	382320	401436	421508	442583	464712	
Capital Exp	44500	48950	53845	59230	65153	71668	78835	86719	95391	104930	115423	
Communications Tr-f (St.Cath)		35000	36750	38588	40517	42543	44670	46904	49249	51711	54297	
Sub-total Non-Payroll	434257	495285	524732	556054	589377	624842	662598	702806	745637	791277	839929	
Total Projected Budget	883020	1072467	1240824	1416061	1549144	1632599	1720743	1813860	1912243	2016214	2126114	
Salary as a % of Tot Proj Budget	50.8%	53.8%	57.7%	60.7%	62.0%	61.7%	61.5%	61.3%	61.0%	60.8%	60.5%	

YEAR 2 - 1992

1. A new fire station be constructed in the vicinity of Port Robinson Road and Merrittville Highway of sufficient size to accommodate three apparatus bays, a meeting/lecture room, office space for the officer in charge and training accommodations for the firefighters to replace Station 3W.

This action satisfies Committee Recommendation #2.

2. Two additional firefighters be employed.

This action partially satisfies Committee Recommendation #5.

ADDITIONAL CAPITAL EXPENDITURES

1. New vehicle be purchased to replace Aerial#2 (1969 GMC Sqrt).

YEAR 3 - 1993

1. A new fire station be constructed in the vicinity of Highway 20 and 58 in sufficient size to accommodate three apparatus bays, a meeting/lecture room, office space for the officer in charge and training accommodations for the firefighters to replace the existing Station 2.

This action satisfies Committee Recommendation #1.

2. Two additional firefighters be employed .

This action partially satisfies Committee Recommendation #5.

ADDITIONAL CAPITAL EXPENDITURES

1. New vehicle be purchased to replace present Pump #4 (1972 Ford Pumper).
2. New vehicle be purchased to replace present Utility#3 (1978 Van).

YEAR 4 - 1994

1. One additional fulltime firefighter be employed.

This action fully satisfies Committee Recommendation #5.

ADDITIONAL CAPITAL EXPENDITURES

1. Two vehicles be purchased to replace Tanker #4 and Tanker 5 (1973 Tankers).

YEAR 5 - 1995

1. Land be obtained in the Confederation Height area in the vicinity of Collier Road for the construction of a new headquarters station in the year 1998.

This action satisfies Committee Recommendation #3.

ADDITIONAL CAPITAL EXPENDITURES

1. One vehicle be purchased to replace Utility 4 (1968 Van)

YEAR 6 - 1996

1. One vehicle be purchased to replace Pump #5 (1975 Pumper)

YEAR 7 - 1997

1. Two vehicles be purchased to replace Pump #3 (1977 Pumper) and Car 1 (Car).

YEAR 8 - 1998

1. A new headquarters fire station be constructed in the Confederation Heights area of sufficient size to accommodate four apparatus bays, a meeting/lecture room, office space for the fire chief, deputy chief, training/fire prevention officer and administrative staff and training accommodations for the firefighters to replace the existing Station 1.

YEAR 8 - 1988 continued

This action completes Committee Recommendation #3.

YEAR 9 - 1999

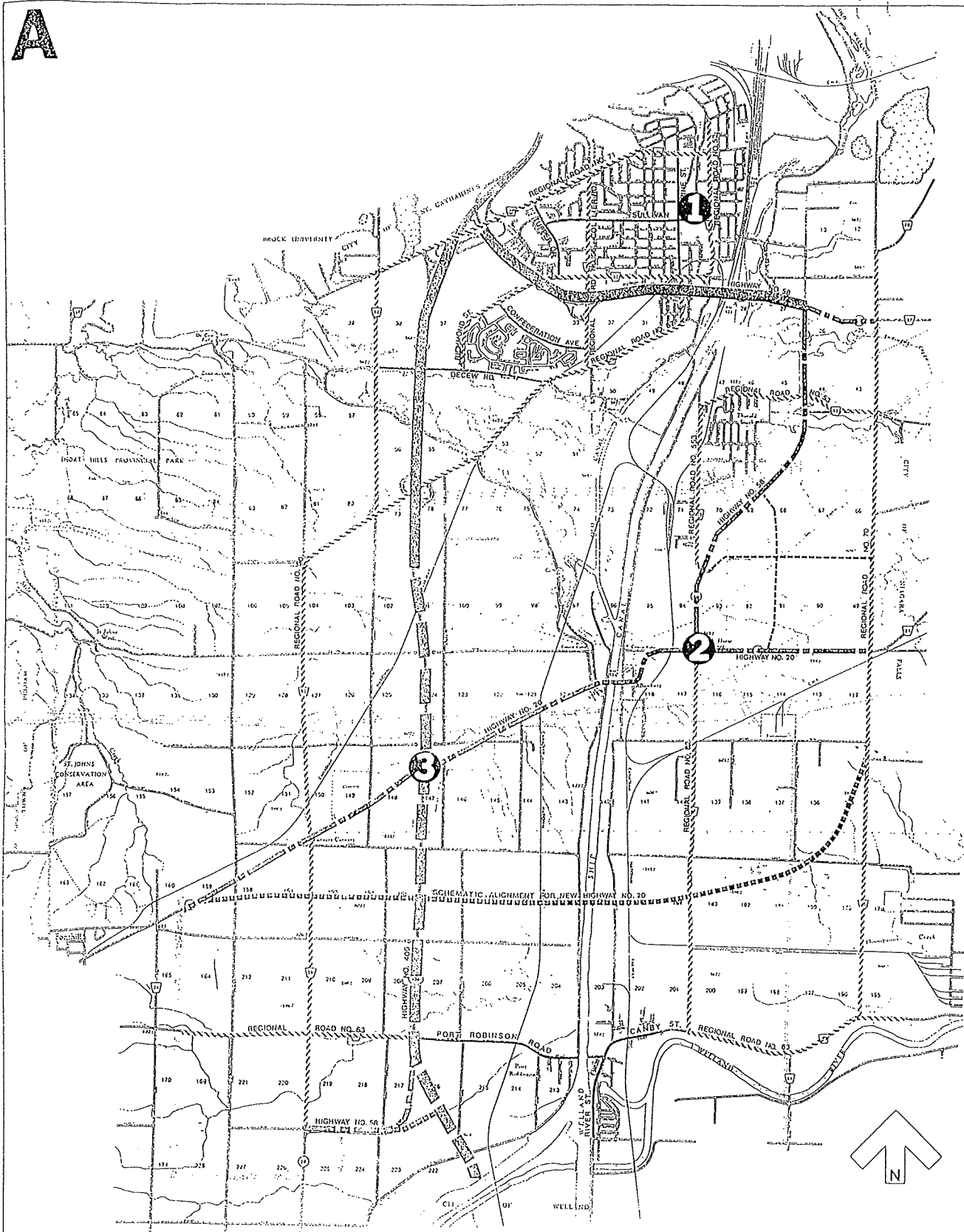
YEAR 10 - 2000

1. Two vehicles be purchased to replace Aerial 1(1980 Telesquirt) and Rescue 1(1985 Rescue).

Fire Capital Budget Forecast
As at November 15, 1990

[illegible]

A



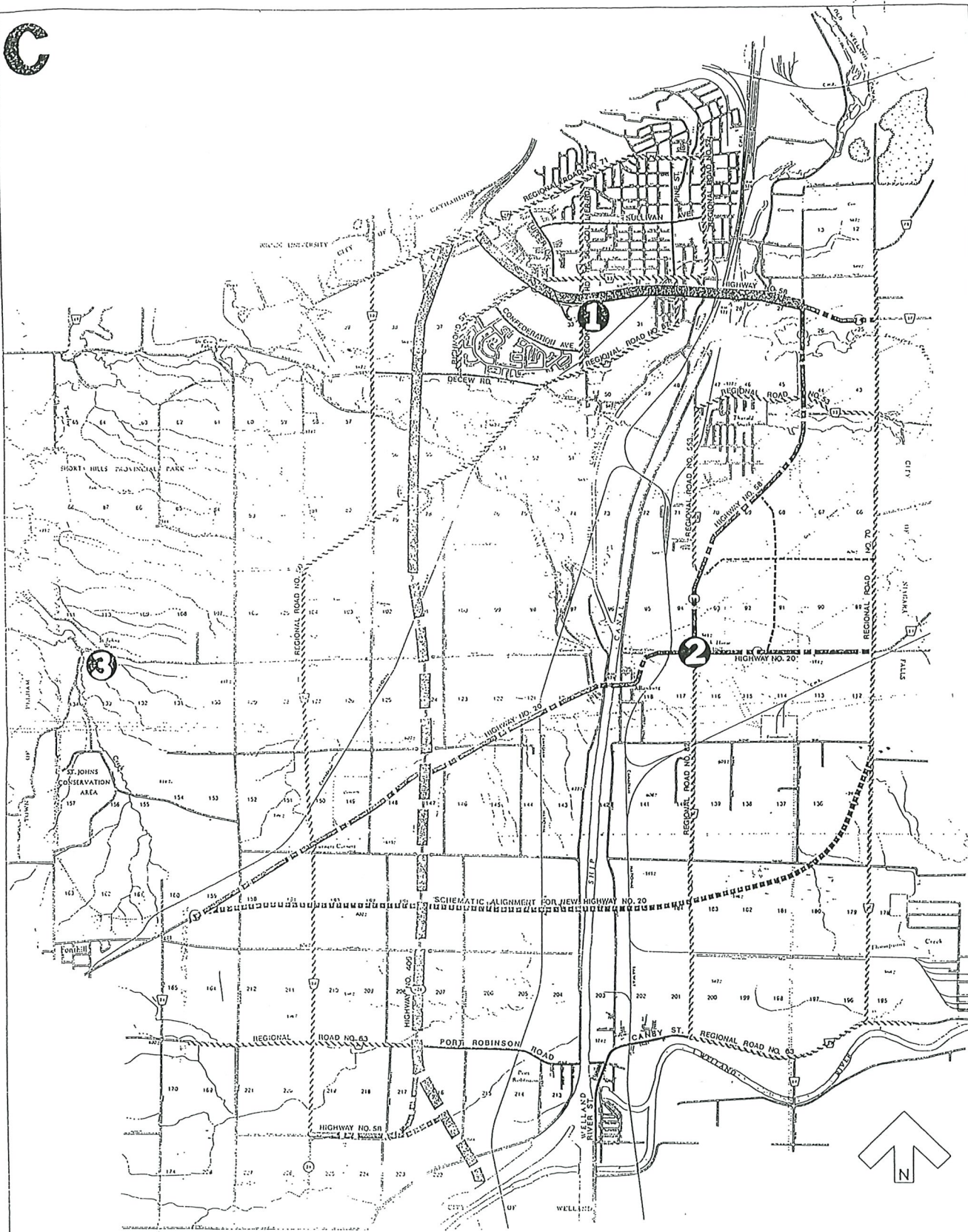
LEGEND:

FIRE STATION LOCATIONS RECOMMENDED BY DEPUTY FIRE CHIEF THOMAS WADE - 1969

[illegible]

FIRE STATION LOCATIONS RECOMMENDED BY THE OFFICE OF THE FIRE MARSHAL - 1977

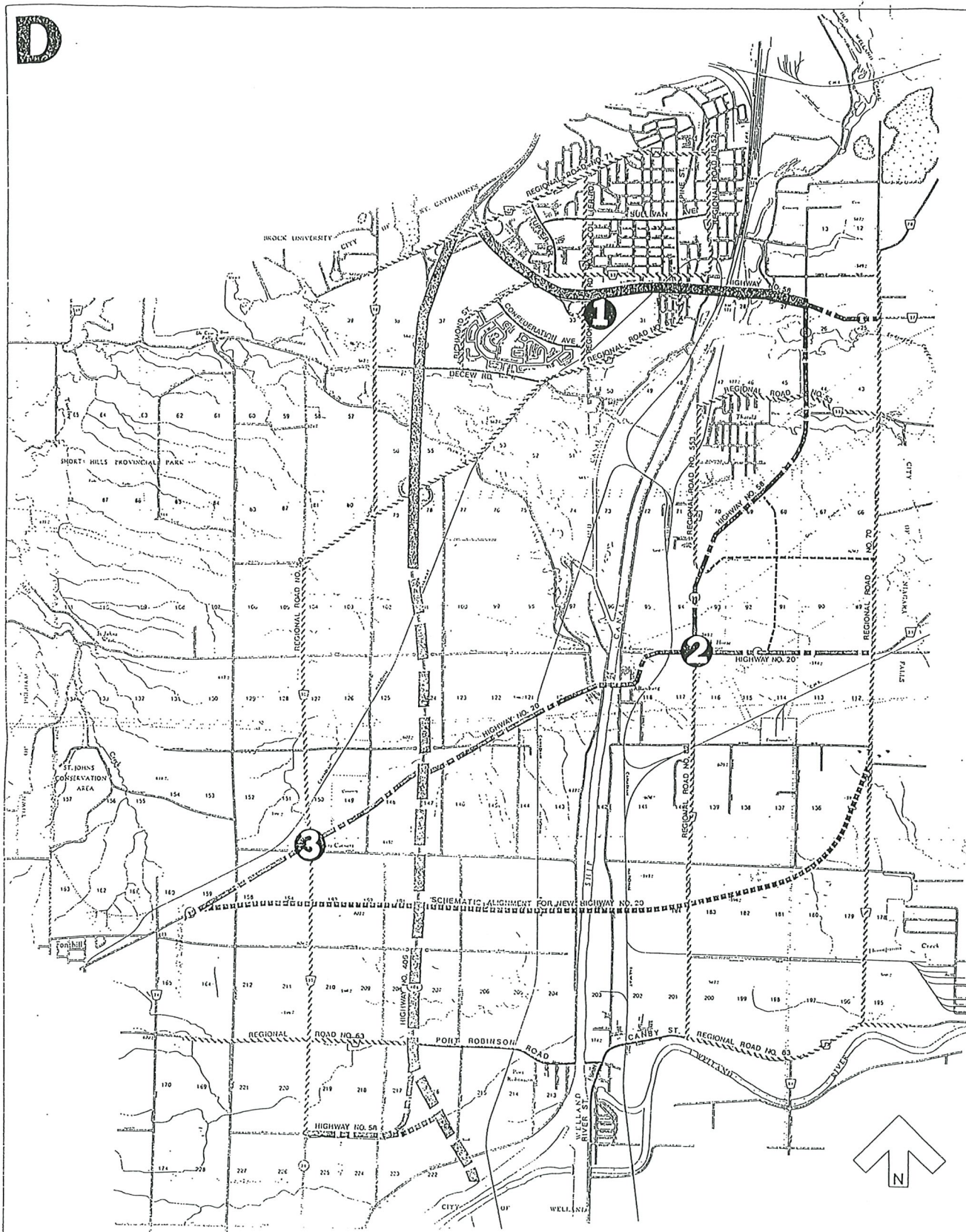
C



LEGEND:

FIRE STATION LOCATIONS RECOMMENDED BY CITY ADMINISTRATOR CHARLES ORT - 1977

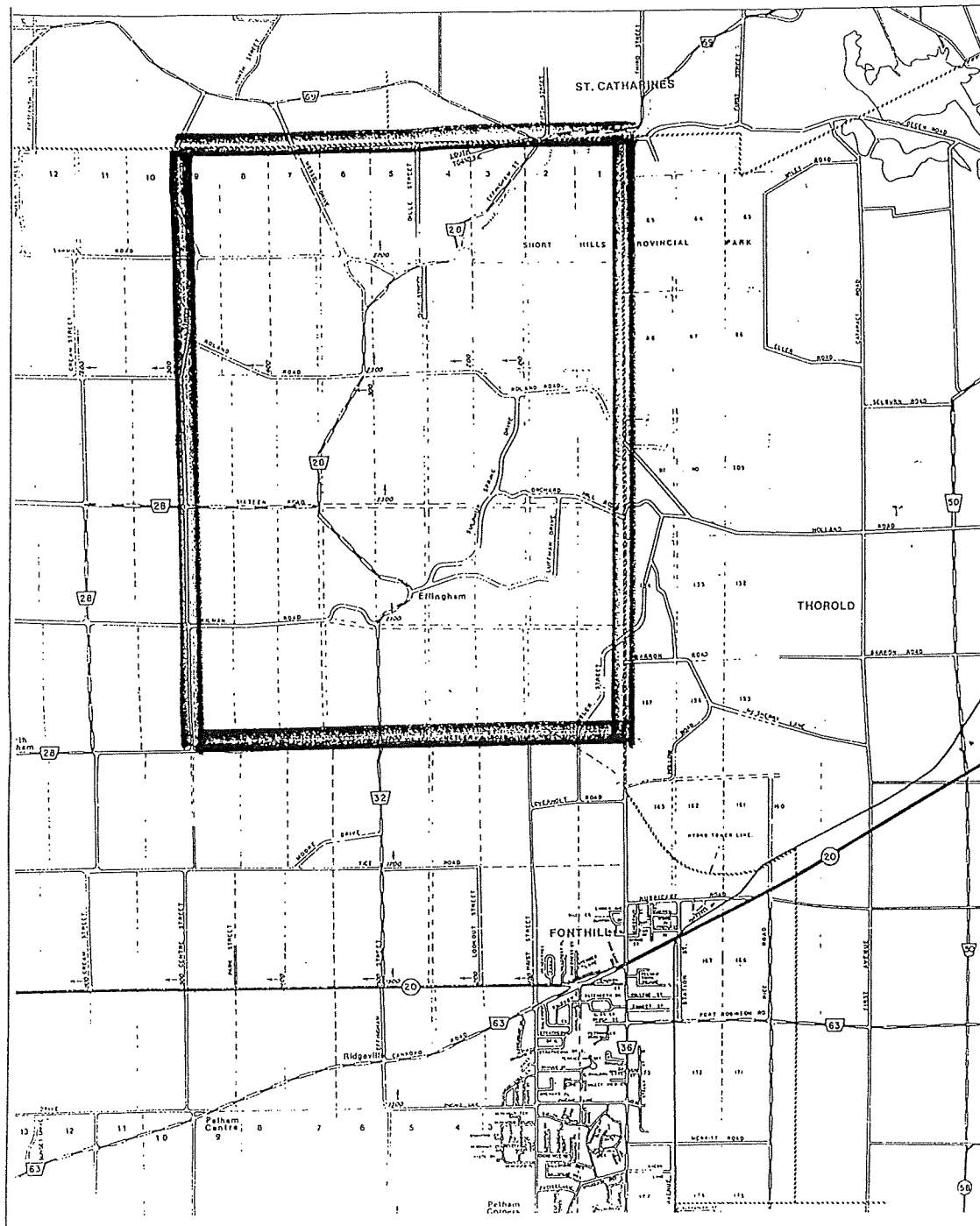
D



LEGEND:

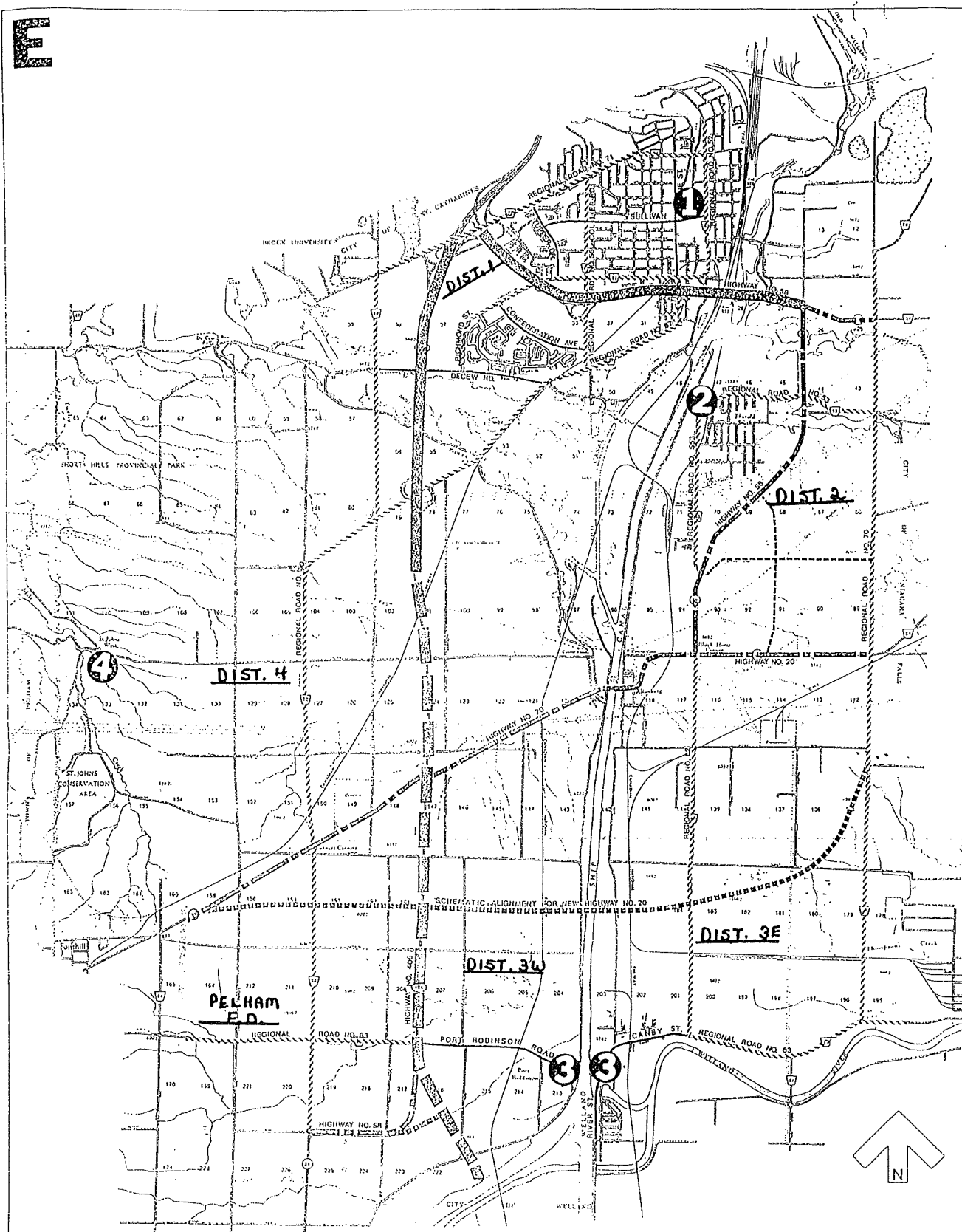
FIRE STATION LOCATIONS RECOMMENDED BY FIRE CHIEF LARRY JANE - 1987

E1



EXISTING AREA OF PELHAM PROTECTED BY THOROLD DISTRICT #4

E



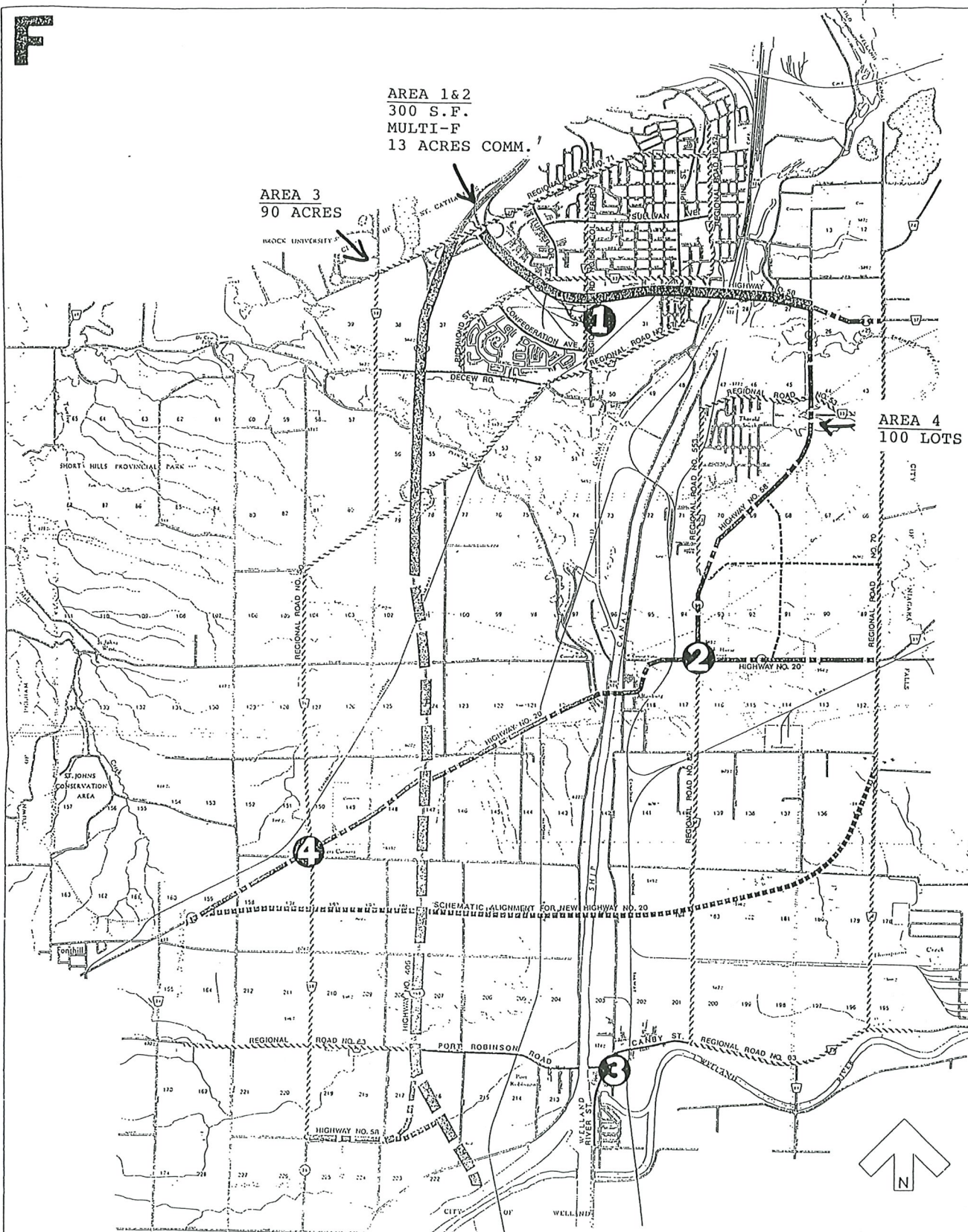
EXISTING FIRE STATION LOCATIONS AND RESPONSE AREAS

F

AREA 1&2
300 S.F.
MULTI-F
13 ACRES COMM.

AREA 3
90 ACRES

AREA 4
100 LOTS



LEGEND:

FIRE STATION LOCATIONS PROPOSED BY THE OFFICE OF THE FIRE MARSHAL AND
PROJECTED DEVELOPMENT - 1988

