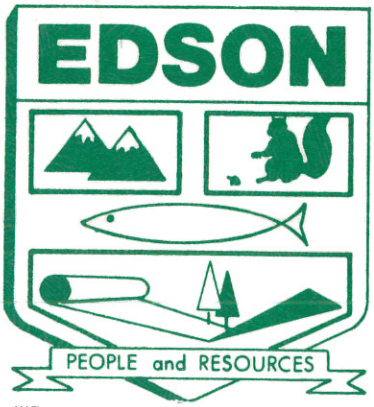

THE TOWN OF EDSON

General Engineering Study

1982

Stanley

TOWN OF EDSON

GENERAL ENGINEERING STUDY

1982

as prepared by

STANLEY ASSOCIATES ENGINEERING LTD.

Stanley Associates Engineering Ltd.
Mayfield Business Centre
10512 - 169 Street
Edmonton, Alberta T5P 3X6
Telephone (403) 483-4777 Telex 037 414 32

22 April 1982
File: 52-661-95-1-1

Town of Edson
Box 1388
Edson, Alberta
TOE OPO

Attention: Mr. P. Serdiak, Town Manager

Dear Sir:

Reference: Edson - General Engineering Study 1982

Attached please find the final report of the General Engineering Study 1982.

This Study examined the water, sanitary sewer, storm sewer and roadway systems required to ultimately service a total Study Area of 20.7 sq. km. surrounding Edson (includes the existing Town). The existing systems were first examined and recommendations made for their expansion to serve the complete Study Area based on population and land use projections developed by Makale and Kyllo Planning Associates.

It should be noted that the Study concentrates on the ultimate infrastructure systems needed to serve the Study Area at full development. The Study Area will however be developed in stages and in order to determine the optimum phasing of developments each proposed expansion should be assessed keeping in mind that it must become part of the ultimate system.

We would be pleased to meet with Council to discuss any aspect of this Study and any questions that might come up.

Yours truly,

STANLEY ASSOCIATES ENGINEERING LTD.

G.D. McRae, P.Eng.
Project Manager

GDM/dac

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LIST OF ABBREVIATIONS

CBD	Central Business District
cfs	cubic feet per second
CNR	Canadian National Railway
CSP	Corrugated Steel Pipe
dBA L_{dn}	unit of noise measurement
GSC	Geodetic Survey of Canada
ha	hectare
HGL	Hydraulic Grade Line
Hp	Horsepower
IAO	Insurer's Advisory Organization
km	kilometre
kPa	kilopascal
kW	kilowatt
l	litre
lphd	litre per hectare per day
lpcd	litre per capita per day
lpd	litre per day
l/s	litre per second
Ml	Mega litre
m	metre
m^3	cubic metre
m^3/s	cubic metre per second
m^3/d	cubic metre per day
m/s	metre per second
mm	millimetre
NTS	National Topographic System
PF	Peak Factor
psi	pounds per square inch
SAEL	Stanley Association Engineering Ltd.
TDH	Total Dymanic Head
vpd	vehicles per day

CONVERSION FACTORS

1 hectare	= 2.471 acres
1 kilometre	= 0.621 miles
1 kilopascal	= 0.145 pounds per square inch
1 litre	= 0.220 imperial gallons
1 litre per hectare day	= 0.089 imperial gallons per acre day
1 litre per capita day	= 0.220 imperial gallons per capita day
1 litre per day	= 0.220 imperial gallons per day
1 litre per second	= 13.198 imperial gallons per minute
1 Mega litre	= 219 million imperial gallons
metre	= 3.280 feet
cubic metre	= 35.315 cubic feet
cubic metre	= 219.977 imperial gallons
cubic metre per day	= 219.977 imperial gallons per day
metre per second	= 3.280 feet per second
milimetre	= 0.039 inches
tonne	= 1.102 tones
tonne	= 2204 pounds

ACKNOWLEDGEMENTS

We would like to thank Mr. P. Serdiak, Town Manager and Mr. C. Ward, Town Superintendant for their assistance in the preparation of this report.

STANLEY ASSOCIATES ENGINEERING LTD.

STUDY TEAM

D. McRae
E. Shillington
D. Burgess
J. Hodgson
K. Collicott
P. Yeung
P. Grubb
N. Nuttall