

ITEM 15
MANAGER'S REPORT NO. 45
COUNCIL MEETING 9.1/07/22

TO: MUNICIPAL MANAGER 1991 JULY 16
FROM: DIRECTOR ENGINEERING FILE: 40-06-05
SUBJECT: CAPITAL WORKS PROGRAM -
DRAINAGE IMPROVEMENTS TO THE BIG BEND AREA
PURPOSE: To obtain Council's permission to enclose a portion of
the Marine Drive/12th Avenue drainage channel.

RECOMMENDATION:

1. THAT Council approve the enclosure of a portion of the Marine Drive/12th Avenue drainage channel.

REPORT

Introduction:

Council at its regular meeting of 1991 April 15 endorsed a phased drainage capital improvement program in the Big Bend area. One of the projects identified required upgrading a drainage channel through a farm (6359 12th Avenue) below Marine Drive at 12th Avenue to minimize potential for overflows and flooding of agricultural land (Figure 1).

Proposed Improvements:

This area was scheduled as a priority for implementation in 1991 and to that end the Engineering Department retained a consultant to prepare detailed designs. Arising from the design work and from discussions with the landowners it was determined that the solution that would maximize benefits for both flood control and agricultural purposes would involve enclosing a portion of the drainage channel through the farm.

The proposed enclosure of a portion of the drainage channel has been reviewed with the Planning and Building Inspection Department. It has been concluded that the enclosure would facilitate access and thereby enhance the day-to-day operational requirements for the agricultural use of the adjacent lands. In this regard, it should be noted that if the entire channel was to be reconstructed in an open condition, it would require existing productive agricultural lands to be taken out of production. Furthermore, the proposed enclosure work will be more cost-effective than the open channel alternative which would involve extensive excavation to achieve the cross-section required.

The enclosed channel would discharge into the existing 12th Avenue roadside ditch which, together with other roadside ditches, discharges to the Meadow Avenue drainage system. The Fisheries Department has confirmed that this drainage system does not have any present or future fisheries value.

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Present Council policy is not to enclose watercourses however in this case staff believe the proposed channel enclosure would have the following advantages:

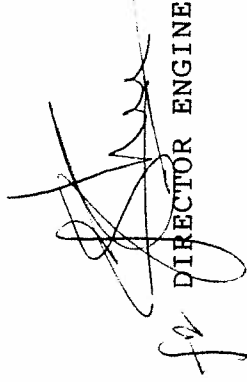
- . cost-effective/cost saving
- . effective flood control
- . minimize impact to agricultural land use
- . reduce future system maintenance requirements
- . improve existing farming operation and access

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Conclusion:

In order to finalize design work and obtain the necessary easements for construction, staff are recommending that Council approve enclosing a portion of the Marine Drive/12th Avenue drainage channel located at 6359 12th Avenue as shown on Figure 1.

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Attach.

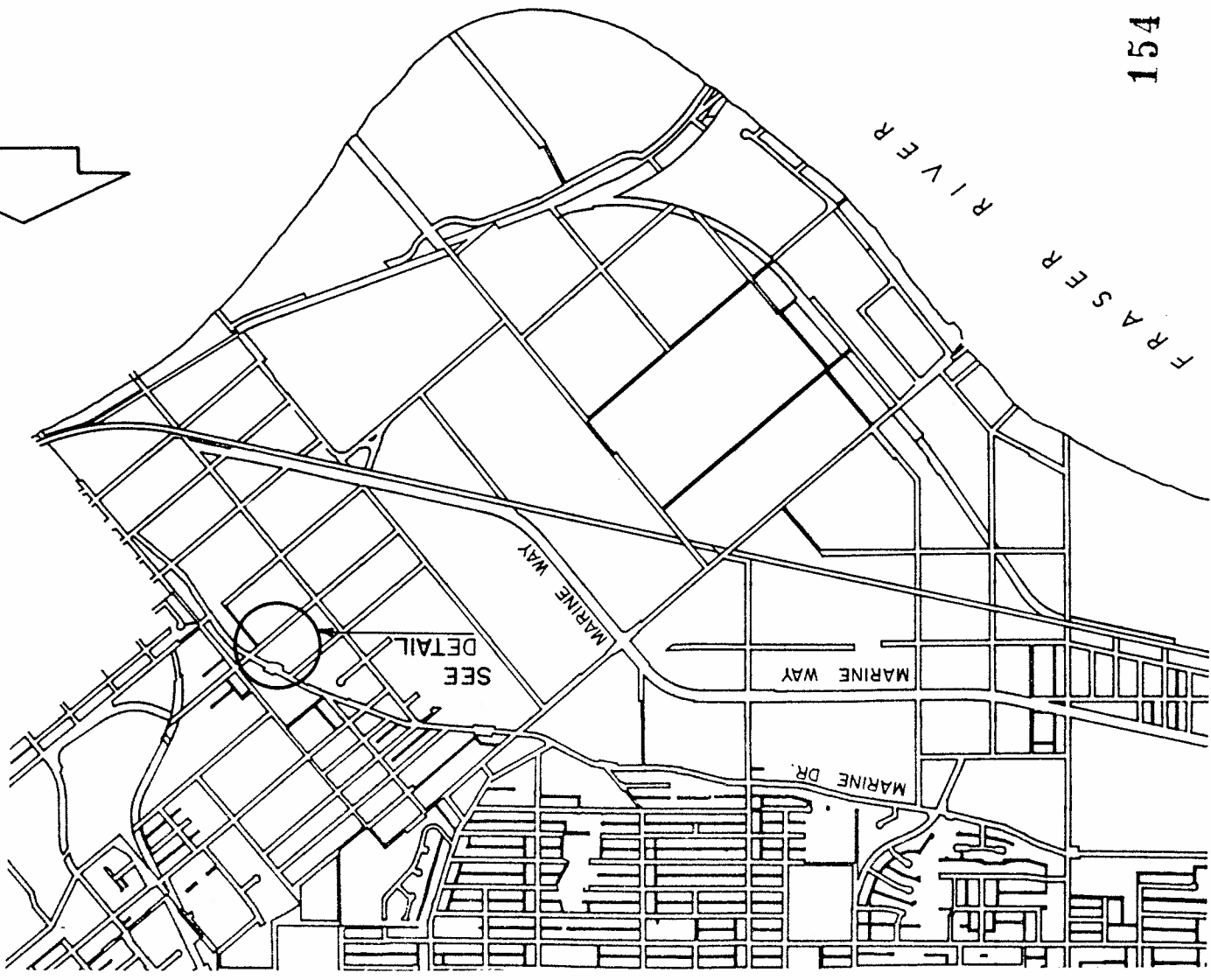

DIRECTOR ENGINEERING

cc: Director Planning & Building Inspection

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NO.	DATE	REVISION

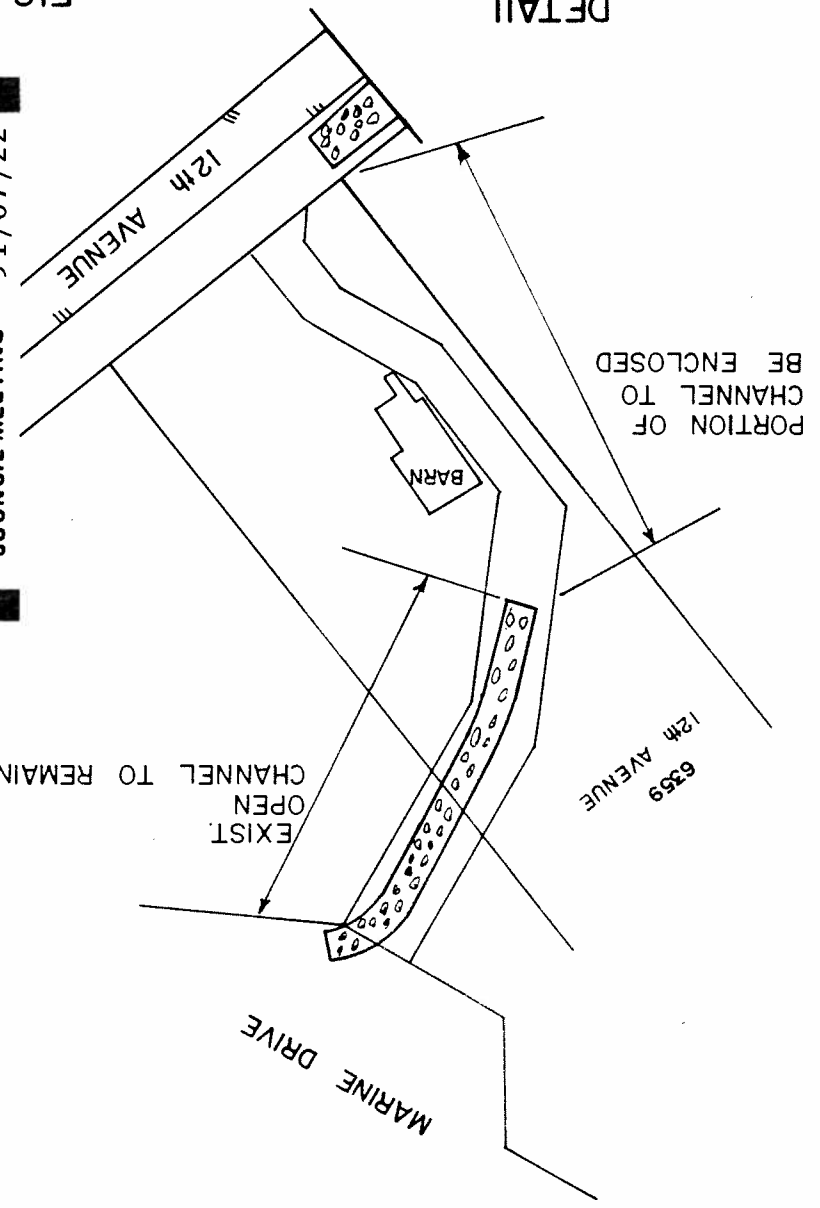
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MARINE DRIVE - 12th AVENUE

CHANNEL DEVELOPMENT

DETAIL
N.T.S.



DESIGNED BY: N.T.S.
 DRAWN BY: GWFUNK
 DATE: 91-07-12
 CHECKED BY:
 APPR'D BY:
L
 2253

FIG. 1

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