

JOHN WAIHEE
GOVERNOR -



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OFFICE OF ENVIRONMENTAL
QUALITY CONTROL

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION

869 PUNCHBOWL STREET
HONOLULU, HAWAII 96813-5097

June 24, 1993

HAR-EP 1103.93

13
06/24/93
REX D. JOHNSON
DIRECTOR

DEPUTY DIRECTORS
JOYCE T. OMINE
AL PANG
JEANNE K. SCHULTZ
CALVIN M. TSUDA

IN REPLY REFER TO:

To: Brian J. J. Choy, Director
Office of Environmental Quality Control

From: *for* Rex D. Johnson, Director
Department of Transportation *[Signature]*

Subject: NEGATIVE DECLARATION - GASCO CARGO PIPELINES
FOR NAWILIWILI PIER EXTENSION, KAUAI

In accordance with Act 241, SLH 1992, we have completed the formal Environmental Assessment (EA) 30-day review period for the subject project. Since we have not received any comments from the public, we have determined that the action will not have a significant impact. Therefore, we are submitting it as a Negative Declaration (NEG/DEC). We have enclosed the original plus four (4) copies of the EA on the proposal and a completed OEQC Form for publication in the OEQC Bulletin.

Should you have any questions on the action, please contact Elton Teshima of our Harbors Division at 587-1880.

Enc.

c: GASCO, Inc. - Mr. Ed Sawa
McCarter, Inc. - Mr. Bill McCarter

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1993-07-08-KA-FEA-Nawiliwili Pier Extension Gasco Cargo Pipelines

date: June 21, 1993

NAWILIWILI PIER CARGO PIPELINES

NAWILIWILI, KAUAI

APPLICANT: GASCO INC.
515 KAMAKEE STREET
HONOLULU, HAWAII 96814

APPROVING AGENCY: DEPARTMENT OF TRANSPORTATION
HARBORS DIVISION

PROJECT LOCATION: NAWILIWILI, LIHUE, KAUAI
TAX MAP 3/02/03:7P & 43P

AGENCIES CONSULTED:

Agencies that were and/or will be consulted include;

- State Department of Transportation
- State Department of Health
- Kauai County Planning Department
- Kauai County Building Department
- Kauai County Fire Department

DESCRIPTION OF THE PROPOSED ACTION:

The proposed project involves pipelines for liquified petroleum gas (LPG) and includes the 1) installation of wire and receptacles in a electrical hatch, 2) installation of two (2) pipelines under pier and 3) installation of two (2) pipelines from the pier, underground across the container yard and terminating at existing underground LPG lines including a valve pit, valves, fittings and cathodic protection. Piping within State property will be in an easement secured from the State in accordance with the attached drawings.

The tax map key where the proposed action is to occur is 3/02/03:7P & 43P, all a portion of Kauai County, Hawaii.

The estimated cost of completed project is \$ 205,000 including installation of all new lines, valves, hangers, cathodic protection, electrical and related appurtenances.

GENERAL DESCRIPTION OF TECHNICAL, ECONOMIC, SOCIAL AND ENVIRONMENTAL CHARACTERISTICS:

TECHNICAL: The new pipelines are being installed at this time because of the preference of installing these lines before paving the container yard and provides the coordinated planning and design before construction of the pier.

The new system will include pipelines installed as proposed on the drawing. One (1), eight (8) inch line and one (1) four (4) inch line are below the pier, from the hatch to the bulkhead and then underground to GASCO's existing lines serving Pier 1.

Lines under the pier are installed as near the slab as possible to keep above the water line at high tides and are coated with special epoxy coating for splash water corrosion protection. Sleeved openings through the bulkhead and beams shall be

used for new piping. Valve hatches and covers are being provided by the State, however, the State will be reimbursed by GASCO. Pipelines will terminate in these hatches.

From the bulkhead, these lines will be installed underground at a nominal depth of three (3) feet. All buried piping will be coated with a extruded, high density, polyethylene and shall be cathodically protected.

Each pipeline will be hydrostatically tested at twice the working pressure prior to use.

The attached drawing "Right-Of-Way Plan", shows this proposed easement and alignment. The attached drawings, "Nawiliwili Pier Cargo Pipelines", drawings T-1 through M-5, show the complete scope of the project.

The primary long range objective of this project is to provide for LPG barges unloading at the new pier 3 and transporting LPG to GASCO Storage Facility at Nawiliwili.

ECONOMIC CHARACTERISTICS: The economic characteristics of the proposed action are positive in that construction jobs will be made available, construction supplies, services and equipment will be purchased in Hawaii and State and County revenues will be generated.

SOCIAL CHARACTERISTICS: The social characteristics of the proposed project are positive in that it will conform to the policies of the Special Management Area, will be designed to protect coastal resources from potential fuel spills and pipeline leakages and provide safe and efficient means for transporting and handling of fuel.

EXISTING CONDITIONS AND PROPOSED ACTIONS: The environmental characteristics of the proposed project are positive in that the project is intended to install a pipeline transfer system using the latest proven materials of construction and protection systems. Construction activities will be performed in compliance with Federal, State and County environmental protection regulations and special precautions will be taken to ensure that no fuel is drained or spilled. Furthermore, it is anticipated the action is in accord with the State's long term environmental policies and goals; positively affects the economic and social welfare of the state; involves no secondary impacts on population or community facilities; is individually limited and does not cumulatively have an adverse effect on the environment or involve a commitment for larger actions; will not detrimentally affect air or water quality or ambient noise levels; or adversely affect environmentally sensitive areas.

PROBABLE IMPACTS AND MITIGATION MEASURES: Impacts to the project area environment could be caused by open welding of pipe and equipment during fabrication; and the generation of construction dust, noise and wastes. Construction activities will utilize standard construction techniques and procedures. Pipeline welding will be accomplished by trained, experienced welders in compliance with applicable safety and environmental protection regulations. There are hazards such as fire and fuel spills during construction, however, only when new lines are connected to the existing lines. Special precautions and supervision are required for this connection work. Construction area dust, noise and solid waste will be short-term and controlled through the implementation of existing established procedures. The proposed project will not affect any species of rare, threatened or

endangered plants or wildlife and the proposed action will not affect any known archaeological or historical sites of significance.

To mitigate potential adverse environmental impacts, applicable environmental protection regulations will be included in the project specifications and contract terms and conditions. Solid waste generated during the construction period will be collected and disposed in accordance with State and County environmental protection regulations; procedures for fire control will be those established by the Harbors Division; dust and noise caused by construction will be limited to the project site and will be short term; earthquakes, flooding and tsunamis will be considered in the design and proper design measures taken to protect the system.

SUMMARY OF MAJOR IMPACTS: As indicated above, the major potential adverse environmental impacts that could result from the proposed project are noise generated during construction and the potential for fire during welding operations. The major future potential positive environmental impact is the release of fuel from possible line failure resulting in fuel contamination and release of gas with a consequence of a possible localized fire at the failure, and including other resulting fire hazards, stopping of pier operations traffic and resulting in delays and congestion.

ALTERNATIVES CONSIDERED: There is no satisfactory alternative for the installation of pipelines. The alternative to installing no pipelines is to continue using the present pier. Minor Alternatives will be considered for the line easement in accordance with comments and suggestions by the Harbors Division.

DETERMINATION: Based on the above, the type of activity planned, the relative short-term duration of the project and lack of adverse environmental impacts, it is anticipated that the proposed action will not have a significant impact on the environment and a determination has been made that an environmental impact statement is not required.

Based on the evaluation of the present Pier Project and the Master Plan it is imperative that a new system be installed in conjunction with the States' construction plan and schedule.

SUMMARY OF REASONS SUPPORTING ABOVE DETERMINATION:

1. The proposed action does not involve an irrevocable commitment to loss or destruction of any natural or cultural resource.
2. The proposed action increases the range of beneficial uses of the environment.
3. The proposed action is in concert with the State's long-term environmental policies, goals and guidelines.
4. The proposed action does not substantially affect the economic or social welfare of the community or state.
5. The proposed action does not involve substantial secondary impacts, such as population changes or effects on public facilities.
6. The proposed action does not substantially affect public health.

7. The proposed action does not involve a substantial degradation of environmental quality.

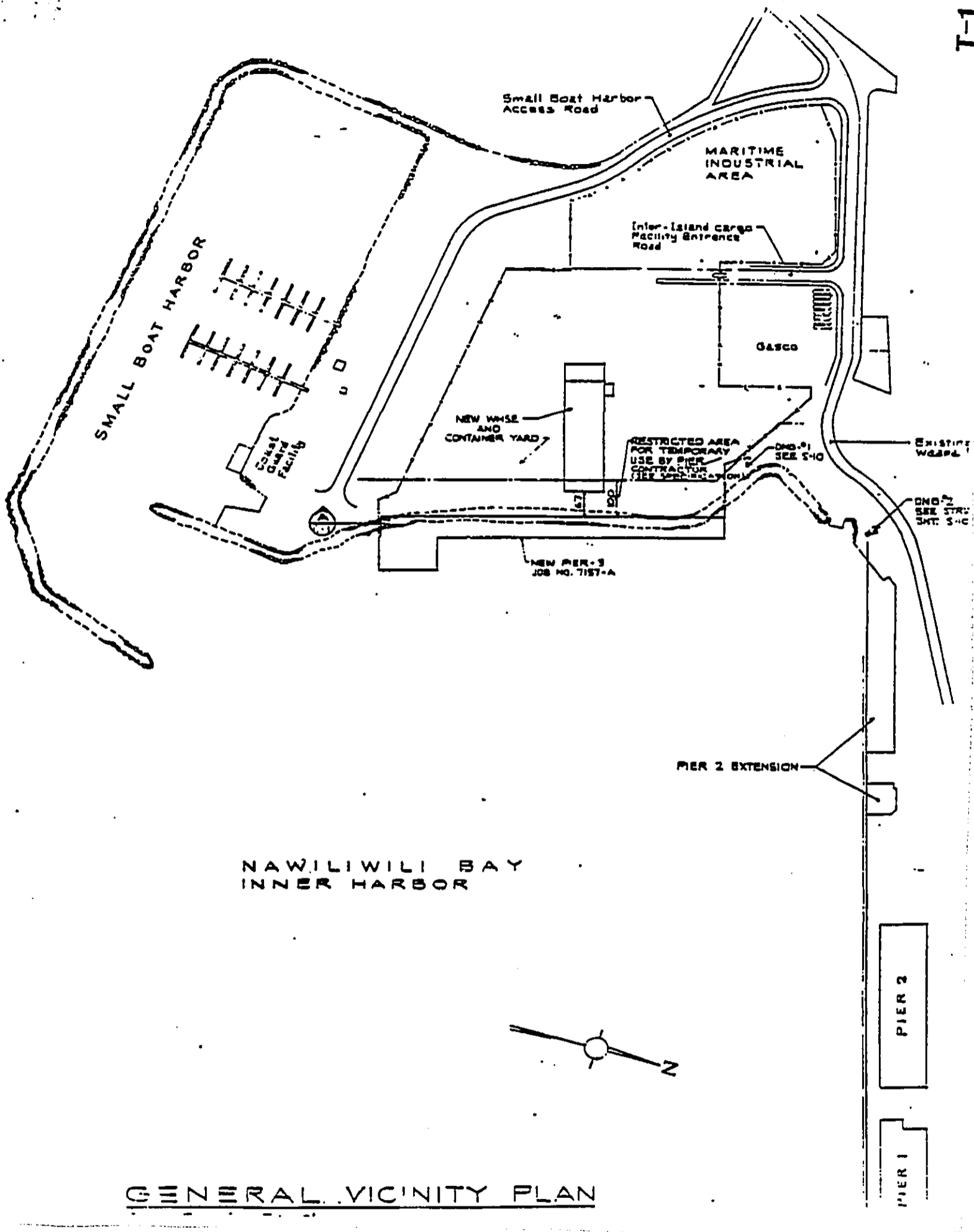
8. The proposed action is individually limited and cumulatively, does not have a considerable effect upon the environment or involve a commitment of larger actions.

9. The proposed action does not substantially affect rare, threatened or endangered species or habitats.

10. The proposed action does not detrimentally affect air, water quality or ambient noise levels.

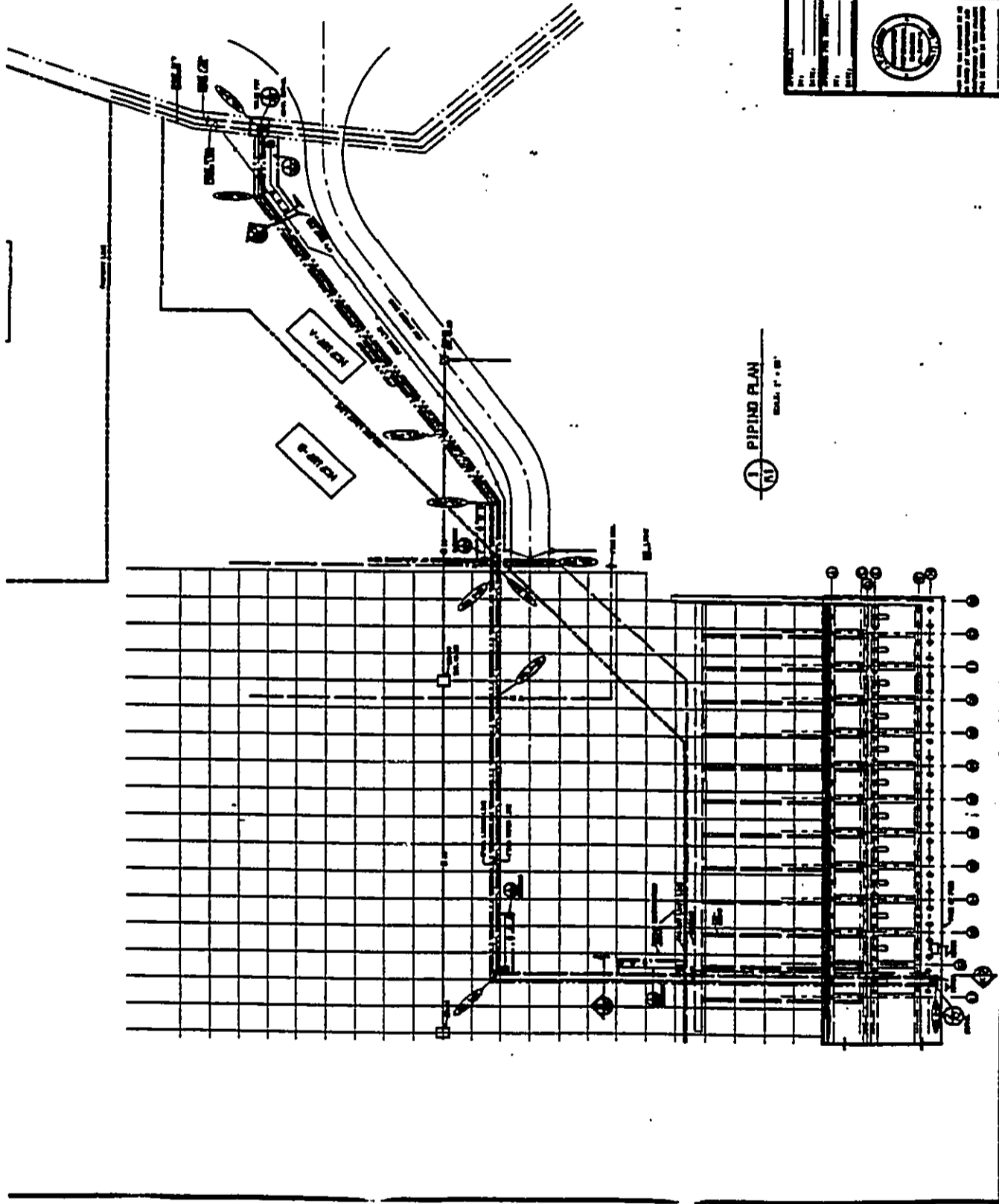
11. The proposed action does not affect an environmentally sensitive area such as flood plain, tsunami zone, erosion prone area, geologically hazardous land, estuary or coastal waters.

12. The proposed action is necessary because of the plan to relocate incoming LPG barges to use the new pier and allow the older piers to be used for other types of operations.




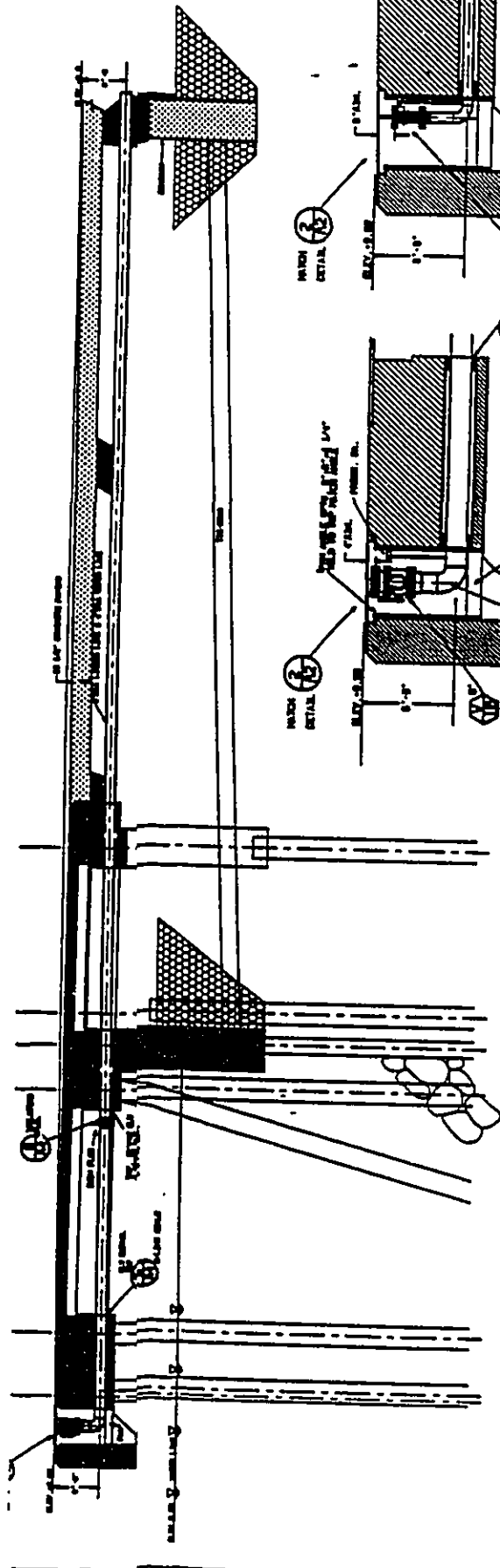
NAWILIWILI BAY
INNER HARBOR

GENERAL VICINITY PLAN

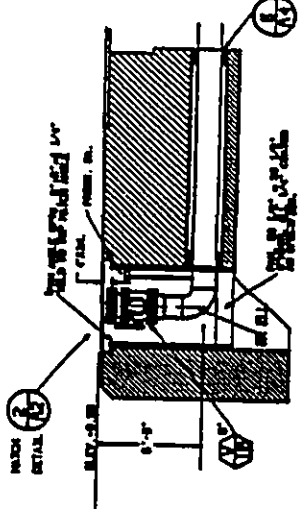


1 PIPING PLAN
SCALE: 1" = 8'

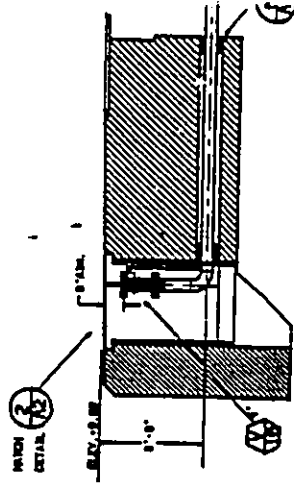
		McCARTIER, INC. P. O. BOX 10770, CHICAGO, ILLINOIS 60687	
PROJECT: NAVAL WULF PIER INSTALL TWO PIPES	SHEET NO. 1 OF 1	GENERAL PIPING PLAN	PROJECT NO. 10770-101
DATE: 10/1/68	DRAWN BY: J. J. JONES	CHECKED BY: J. J. JONES	APPROVED BY: J. J. JONES



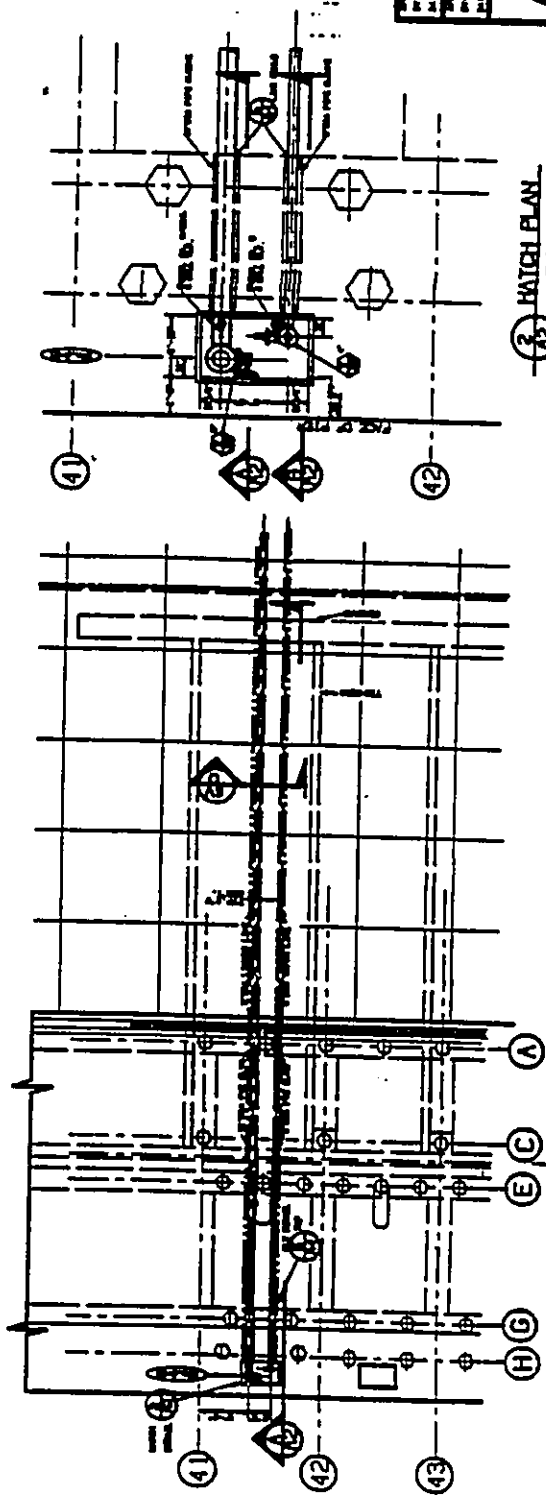
A TYPICAL SECTION
SCALE: 1/4" = 1'-0"



A-A SECTION
SCALE: 1/4" = 1'-0"



B-B SECTION (SIMILAR TO A-A)
SCALE: 1/4" = 1'-0"

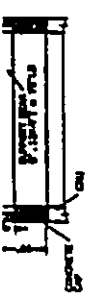


1 DETAIL, PIER PLAN
SCALE: 1/4" = 1'-0"

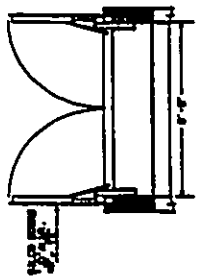
3 HATCH PLAN
SCALE: 1/4" = 1'-0"

NOTE: INTERFERENCES AND DETAILS ARE FURNISHED BY STATE.

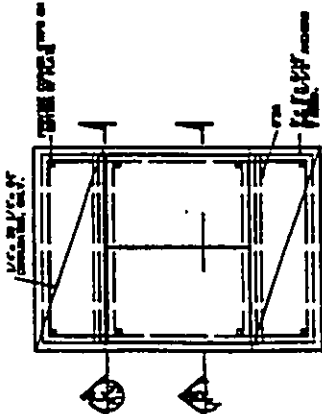
		McGARTY, INC. P. O. BOX 1000, CHARLOTTE, NORTH CAROLINA 28202 PROJECT: HAVILLYVILLE PIER CARGO PIPELINE PIER PIPING PLAN DETAIL B SECTIONS PROJECT NO. 1000 DRAWING NO. 1000-1000-1000-1000 DATE: 10/1/80
DATE: 10/1/80 DRAWING NO. 1000-1000-1000-1000 PROJECT: HAVILLYVILLE PIER CARGO PIPELINE PIER PIPING PLAN DETAIL B SECTIONS PROJECT NO. 1000 DRAWING NO. 1000-1000-1000-1000 DATE: 10/1/80	DATE: 10/1/80 DRAWING NO. 1000-1000-1000-1000 PROJECT: HAVILLYVILLE PIER CARGO PIPELINE PIER PIPING PLAN DETAIL B SECTIONS PROJECT NO. 1000 DRAWING NO. 1000-1000-1000-1000 DATE: 10/1/80	DATE: 10/1/80 DRAWING NO. 1000-1000-1000-1000 PROJECT: HAVILLYVILLE PIER CARGO PIPELINE PIER PIPING PLAN DETAIL B SECTIONS PROJECT NO. 1000 DRAWING NO. 1000-1000-1000-1000 DATE: 10/1/80



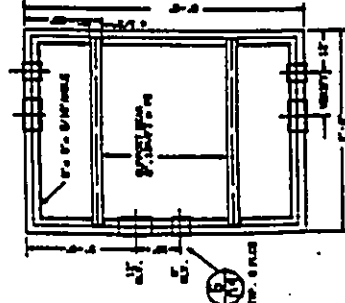
DETAIL, COVER FLAT
SCALE: 1/2"



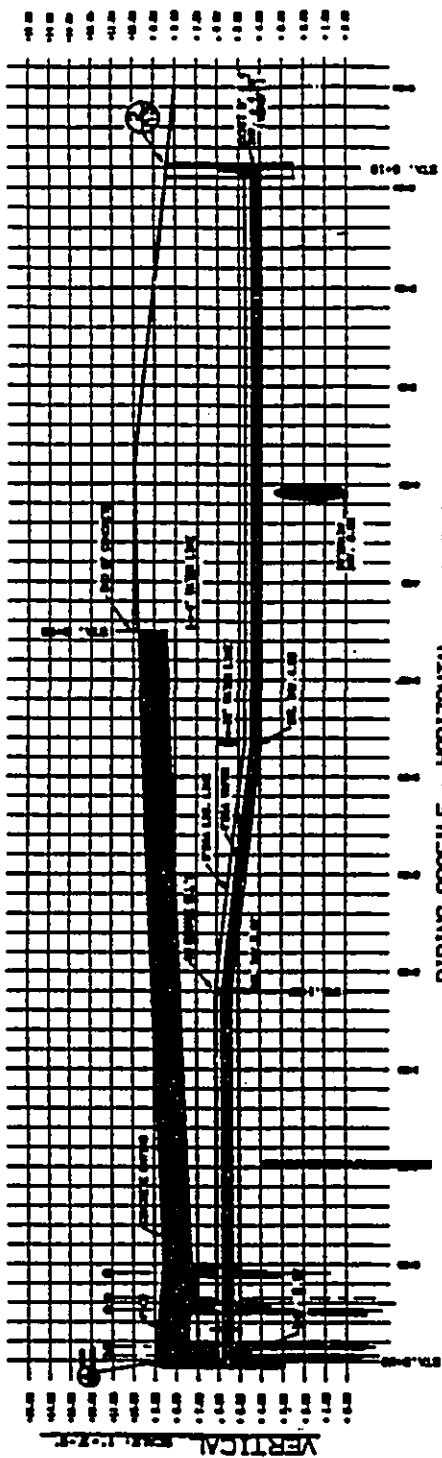
DETAIL, HINGED COVER
SCALE: 1/2"



PLAN, VALVE PIT COVER
SCALE: 1/2"

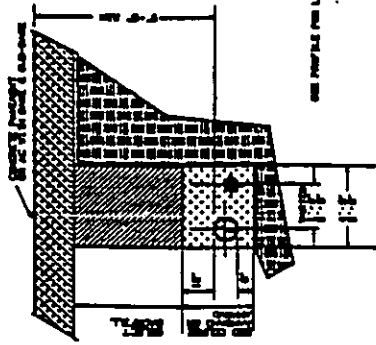


PLAN, VALVE PIT FRAME
SCALE: 1/2"

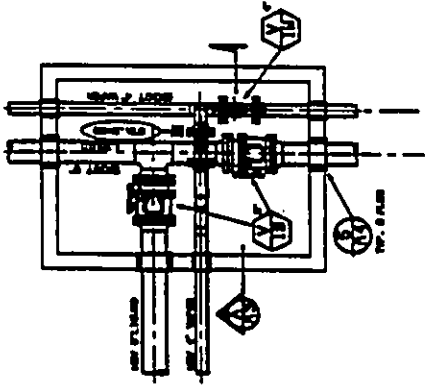


PIPING PROFILE - HORIZONTAL
SCALE: 1"

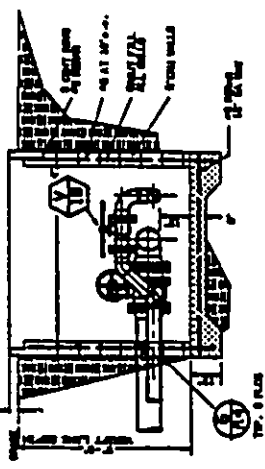
STATION 8+88 TO 8+18



TYPICAL TRENCH DETAIL
NO SCALE



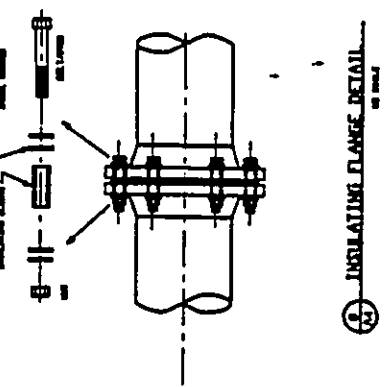
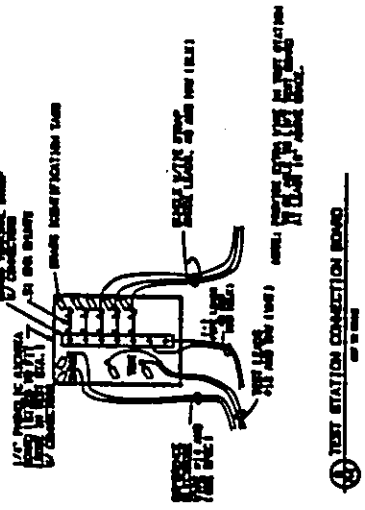
PLAN, VALVE PIT FRAME
SCALE: 1/2"



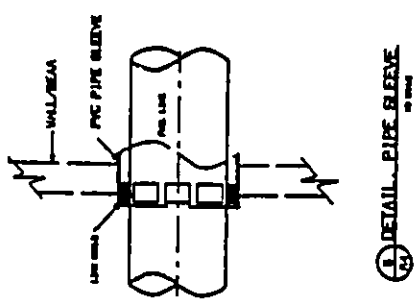
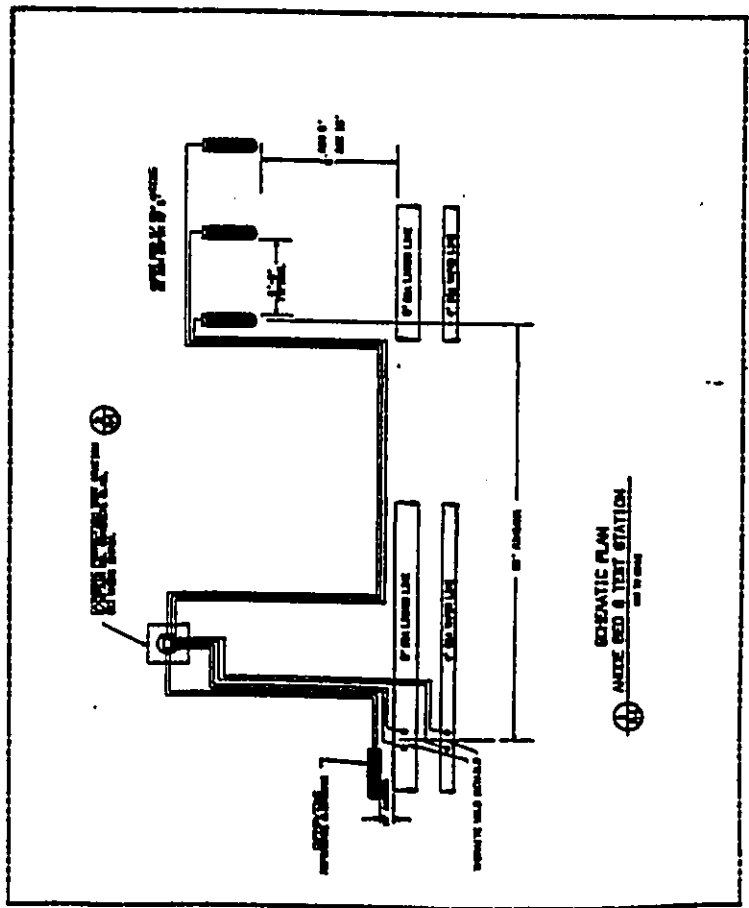
SECTION, VALVE PIT
SCALE: 1/2"

McCARTER, INC. PIPING PROFILES VALVE PIT & TRENCH DETAIL	
PROJECT: NAVILWILLI PIER CASSEL PIPELINE	DRAWING NO.: SHEET NO.:
DATE: SCALE:	DESIGNED BY: CHECKED BY:

VIRING DIAGRAM



① S.P. TEST STATION



② CABLE CONNECTION TO PIPE



③ DETAIL PIPE SLEEVE

MOCARTER, INC. P.O. BOX 1000, WASHINGTON, D.C. 20001	
PROJECT: MULTIVALE PIER CARGO PIPELINE	
CATHODIC ANODE SYSTEM AND DETAILS	
FOR: WASTED INC. 1000 WASHINGTON BLVD. WASHINGTON, D.C. 20001	
DATE:	DRAWN BY:
CHECKED BY:	SCALE:
APPROVED BY:	PROJECT NO.:
DATE:	SHEET NO.: