APPENDIX D Nearshore Confined Disposal (NCD) As-Built Drawings



STAGE 1 MARINE TERMINAL IMPROVEMENTS

COMMISSIONERS:

DON HOPKINS, JR. ED MORROW

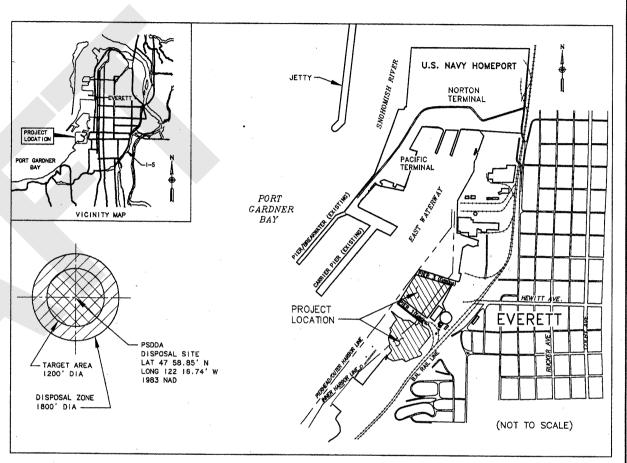
JAMES P. SHAFFER

PORT STAFF:

MICHAEL R. DELLER EXECUTIVE DIRECTOR
JACK R. OLSON PROJECT MANAGER

CONSULTING ENGINEERS:

BERGER/ABAM ENGINEERS, INC - CIVIL/STRUCTURAL
DAMES & MOORE, INC - GEOTECHNICAL ENGINEERS
HARTMAN ASSOCIATES, INC - DREDGING
CLARK M. LEEMAN - SURVEYING
McGOWAN BROZ ENGINEERS, INC - ELECTRICAL & MECHANICAL



LOCATION MAP

DRAWING LIST DRAWING NO. DRAWING NO. GENERAL MECHANICAL ADDITIVE BID NO. 2 ADD. BID NO. 2 - STRUCTURAL DEMOLITION DETAILS TITLE SHEET & VICINITY MAP DRAINAGE PLAN PILE CAP DETAILS - SHEET 2 LEGENDS, ABBREVIATIONS AND GENERAL NOTES EXISTING SITE CONDITIONS AND TOPOGRAPHY C-2 DRAINAGE DETAILS - SHEET I PILE CAP DETAILS - SHEET 3 DOMESTIC WATER & FIRE PROTECTION PIPING PLAN ADD. BID NO. 2 - WHARF SURFACE FEATURES AND PILE PLAN SITE PLAN C-3 DRAINAGE DETAILS - SHEET 2 DOMESTIC WATER & FIRE PROTECTION PIPING PLAN ADD. BID NO. 2 - FRAMING PLAN AND PILE CAP DETAILS SOIL BORING PLAN STRUCTURAL DEMOLITION DETAILS PILE-TO-CAP CONNECTION DETAILS ADD. BID NO. 2 - PILE CAP AND BOLLARD DETAILS SECTIONS AND PROFILES S-14 PRECAST DECK PANEL DETAILS - SHEET M-5 ADD. BID NO. 2 - INTEGRATION PLAN AND DETAILS STRUCTURAL S-15 ADD. BID NO. 2 - PRECAST DECK PANEL DETAILS DEMOLITION PLAN - SOUTH WATERWAY AREA STRUCTURAL NOTES AND DESIGN CRITERIA PRECAST DECK PANEL DETAILS - SHEET 2 ELECTRICAL DREDGE AND FILL PLAN - SOUTH WATERWAY AREA WHARF SURFACE FEATURES PLAN - SHEET ! BULLRAIL DETAILS LEGENDS, GENERAL NOTES AND ELEC SITE PLAN WHARF SURFACE FEATURES PLAN - SHEET 2 UTILITY HATCH DETAILS WHARF PARTIAL PLAN SOUTH - POWER & COMMUNICATIONS SECTIONAL VIEWS 2 - SOUTH WATERWAY AREA PILE AND PILE CAP PLAN - SHEET I BOLLARD AND CLEAT DETAILS DREDGE AND FILL PLAN - PIER I - 3 AREA PILE AND PILE CAP PLAN - SHEET 2 300-TON BOLLARD DETAILS SECTIONAL VIEWS - PIER 1 - 3 AREA FRAMING PLAN - SHEET I FENDER SYSTEM - SHEET I SETTLEMENT MONITORING PLAN & DETAILS FRAMING PLAN - SHEET 2 MISCELLANEOUS DETAILS PROPOSED NCD BERTH APPROACH DREDGING AND DEEPENING S-8 TYPICAL WHARF CROSS SECTION INTEGRATION DETAILS TO EL -40 MLLW, PLAN VIEW PILE CAP DETAILS - SHEET I FENDER SYSTEM - SHEET 2 PROPOSED NCD BERTH APPROACH DREDGING AND DEEPENING TO EL -40 MLLW, CROSS SECTION A-A

Port of EVERETT
P.O. BOX 538
EVERETT, WA 98206
425-259-3164

BERGER/ABAM ENGINEERS INC.

E N G ! N E E R S ! N C. 3330! 9TH AVENUE SOUTH FEDERAL WAY, WASHINGTON 98003-6395 (206)431-2300 FAX:(206)431-2250



DRAWN BY: R. MOHN 08/08/96

DESIGN BY: J. BARD1 08/08/96

CHECK BY: B. OSTBO 08/08/96

PROJ ENGR: B. OSTBO 08/08/96

DATE AS-BUILT JAW BIO 4/3/98

MARK REVISION BY APP. DATE

STAGE 1
MARINE TERMINAL IMPROVEMENTS

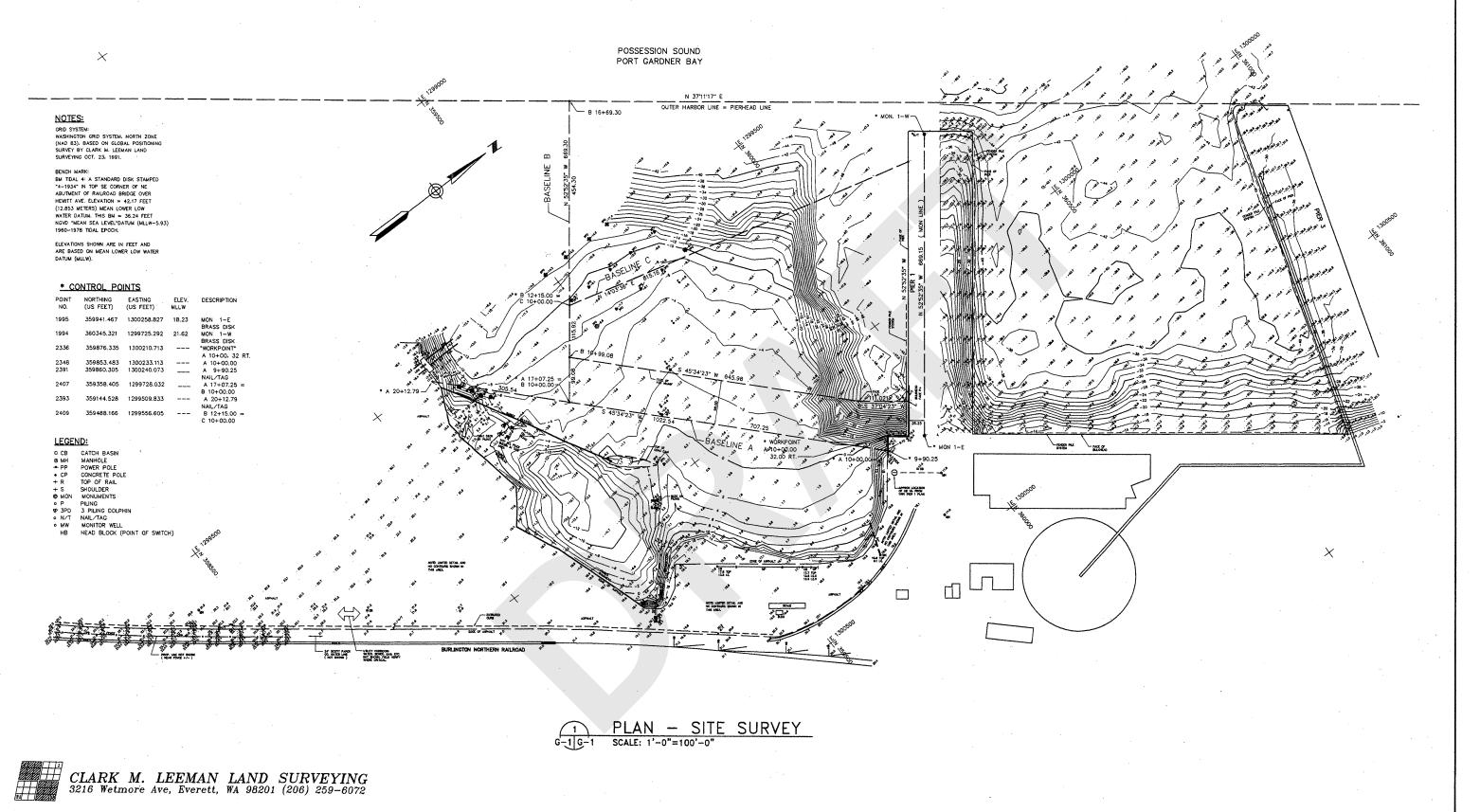
TITLE SHEET & VICINITY MAP

DRAWING NO. T-1

BERGER/ABAM
PROJECT NO. A96073

SHEET NO. 1 OF 55





Port of EVERETT

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425-259-3164

BERGER / ABAM ENGINEERSINC, 33301 9TH AVENUE SOUTH FEDERAL WAY, WASHINGTON 98003-6395 (208)431-2300 FAX: (206)431-2250



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	CHECK BY:	CLM 0	8/08/96								_
	PROJ ENGR: B.	OSTBO (08/08/96				\dashv				
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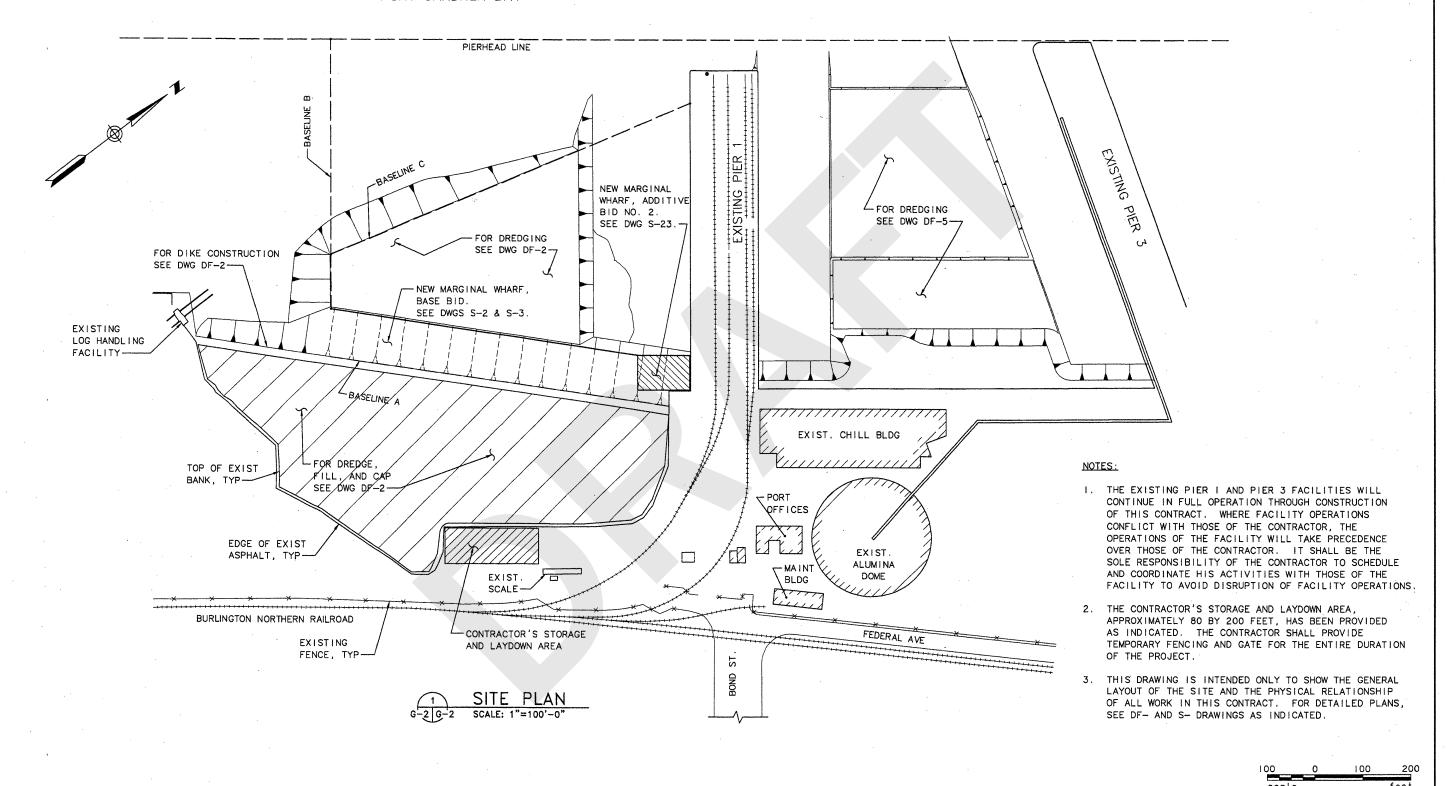
STAGE 1
MARINE TERMINAL IMPROVEMENTS

EXISTING SITE CONDITIONS
AND TOPOGRAPHY

DRAWING NO. G-1

BERGER/ABAM PROJECT NO. __A96073 SHEET NO. _2 __OF__55

POSSESSION SOUND PORT GARDNER BAY





BERGER/ABAM ENGINEERSINC, 33301 9TH AVENUE SOUTH FEDERAL WAY, WASHINGTON 98003-6395 (206)431-2300 FAX: (208)431-2250



DRAWN BYM. BOLLINGER	08/08/96						
DESIGN BY: J. BARDI	08/08/96						
CHECK BY: B. OSTBO	08/08/96					÷	<u> </u>
PROJ ENGR: B. OSTBO	08/08/96						
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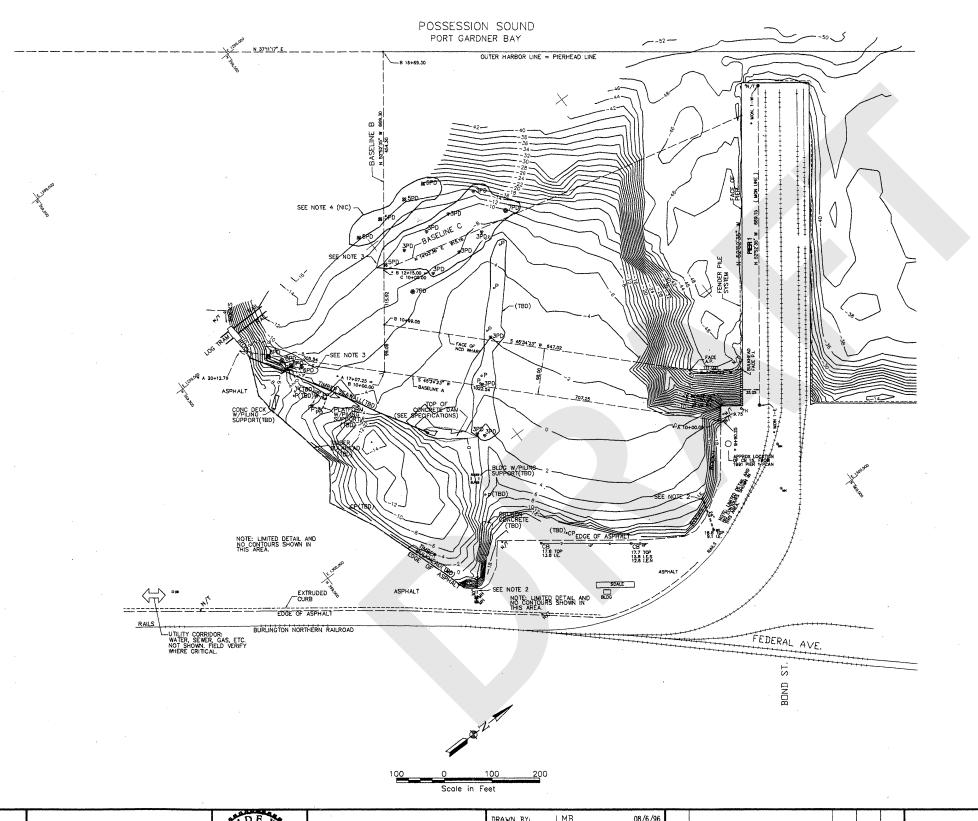
STAGE 1
MARINE TERMINAL IMPROVEMENTS

SITE PLAN

DRAWING NO. G-2

BERGER/ABAM PROJECT NO. <u>A96073</u>

SHEET NO. 3 OF 55



NOTES

- STRUCTURES, DOLPHINS, PILING AND OTHER ITEMS TO BE DEMOLISHED ARE INDICATED WITH SYMBOL (TBD). REFER TO SECTION 02050 OF THE SPECIFICATIONS FOR DEMOLITION REQUIRE— MENTS.
- 2) FOR EXTENSION OF STORM DRAIN PIPING SEE DRAWING NO. C-2.
- 3) MULTIPLE-PILE DOLPHINS INDICATED WITH NOTE 3
 SHALL BE PULLED AND THE PILING TURNED OVER TO
 THE PORT. PILING SHALL BE STOCKPILED WHERE
 DIRECTED BY THE PORT PROJECT MANAGER.
- 4) MULTIPLE-PILE DOLPHINS INDICATED WITH NOTE 4 SHALL NOT BE DISTURBED (NOT IN CONTRACT).
- 5) HORIZONTAL DATUM:
 WASHINGTON GRID SYSTEM, NORTH ZONE
 (NAD 83), BASED ON GLOBAL POSITIONING
 SURVEY BY CLARK M. LEEMAN LAND
 SURVEYING OCT. 23, 1991.
 BENCH MARK:
 BM TIOAL 4: A STANDARD DISK STAMPED
 "4-1934" IN TOP SE CORNER OF NE
 ABUTMENT OF RAILROAD BRIDGE OVER
 HEWITT AVE. ELEVATION = 42.17 FEET
 (12.853 METERS) MEAN LOWER LOW
 WATER DATUM. THIS BM = 36.24 FEET
 NGVD "MEAN SEA LEVEL"DATUM (MLLW-5.93)
 1960-1978 TIDAL EPOCH.
- 6) VERTICAL DATUM: ELEVATIONS SHOWN ARE IN FEET AND ARE BASED ON MEAN LOWER LOW WATER DATUM (MLLW).
- 7) BATHYMETRIC AND UPLAND SURVEY BY CLARK M. LEEMAN LAND SURVEYING OCT. 1995 AND JUNE 1996.

LEGEND:

CB CATCH BASIN

MH MANHOLE

◆PP POWER POLE◆ CP CONCRETE POLE

MON MONUMENTS

OP PILE

93PD 3 PILE DOLPHIN

o N/T NAIL/TAG

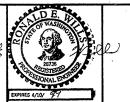
MW MONITOR WELL

Port of EVERETT
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206-259-3164

▼ HARTMAN ASSOCIATES, INC.

810 3rd Ave. Suite 408 Seattle, WA 98104

Phone: (206) 382-0388
Pax: (206) 382-0268



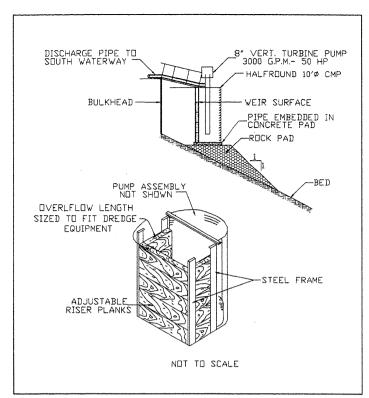
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STAGE 1
MARINE TERMINAL IMPROVEMENTS

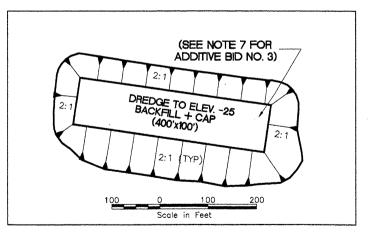
DEMOLITION PLAN
SOUTH WATERWAY AREA

DRAWING NO. DF-1
BERGER/ABAM

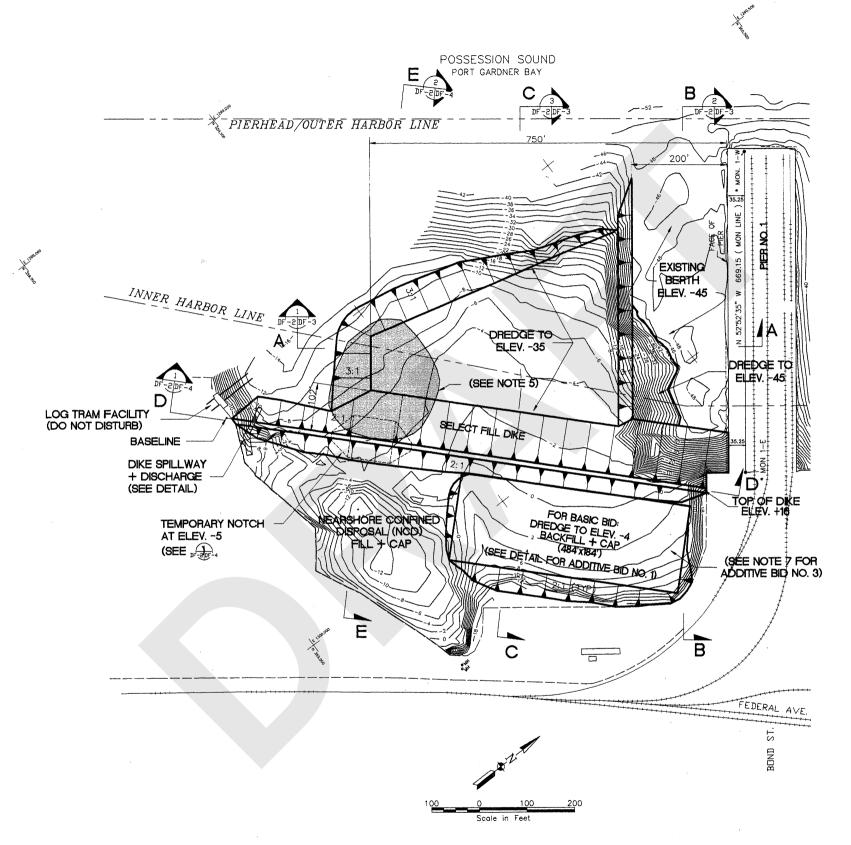
PROJECT NO. ______SHEET NO. _ _ _ OF __7



DROP INLET WEIR AND DISCHARGE FACILITY DETAIL (CONCEPTUAL)



BASIC BID WITH ADDITIVE BID NO. 1 DETAIL (SEE SPECIFICATIONS)



LEGEND

INDICATES SLOPE DIRECTION



------ EDGE OF CONCRETE

---- FENDERPILE SYSTEM

- DROP INLET WEIR AND DISCHARGE FACILITY IS CONCEPTUAL. ACTUAL SIZE AND CONFIGURATION DEPEND ON DREDGING EQUIPMENT USED BY THE CONTRACTOR.
- CONTRACTOR.

 2) HORIZONTAL DATUM:
 WASHINGTON GRID SYSTEM, NORTH ZONE
 (NAD 83), BASED ON GLOBAL POSITIONING
 SURVEY BY CLARK M. LEEMAN LAND
 SURVEYING OCT. 23, 1991.
 BENCH MARK:
 BM TIDAL 4: A STANDARD DISK STAMPED
 "4—1934" IN TOP SE CORNER OF NE
 ABUTMENT OF RAILROAD BRIDGE OVER
 HEWITT AVE. ELEVATION = 42.17 FEET
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- 3) VERTICAL DATUM: ELEVATIONS SHOWN ARE IN FEET AND ARE BASED ON MEAN LOWER LOW WATER
- BATHYMETRIC AND UPLAND SURVEY BY CLARK M.
 LEEMAN LAND SURVEYING DCT. 1995 AND JUNE 1996.
- 5) WOOD DEBRIS TO UPLAND DISPOSAL ON PORT PROPERTY WHERE DIRECTED BY PORT PROJECT MANAGER.
- 6) FOR DREDGING SEQUENCE OF SOUTH WATERWAY AREA SEE SECTION 02482 OF SPECIFICATIONS.
- 7) FOR DESCRIPTION OF ADDITIVE BID NO. 3 PROVIDING FOR UPLAND DISPOSAL OF SEDIMENTS DREDGED BEHIND NCD DIKE SEE SECTION 01025 OF SPECIFICATIONS.



▼ *HARTMAN ASSOCIATES, INC.*

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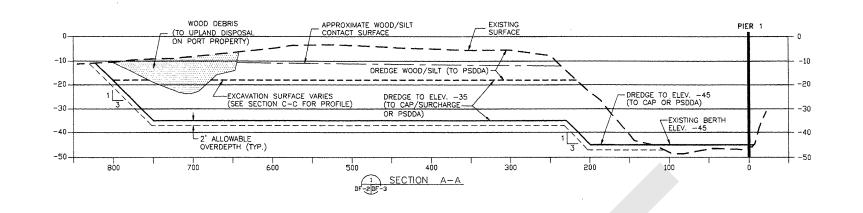
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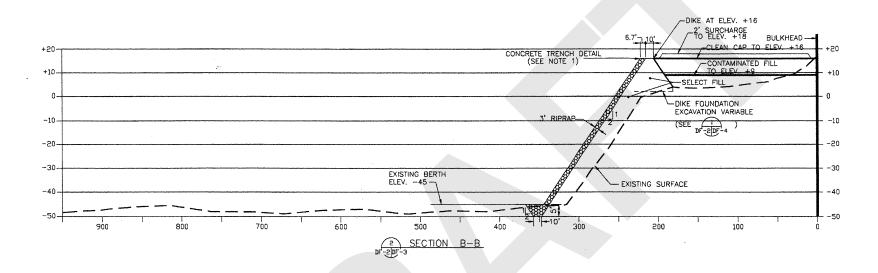
STAGE 1 MARINE TERMINAL IMPROVEMENTS

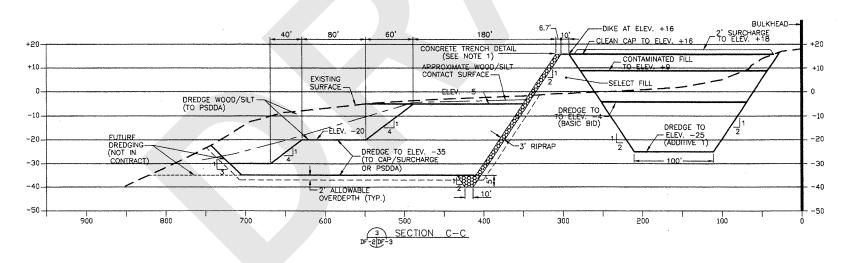
DREDGE and FILL PLAN SOUTH WATERWAY AREA DRAWING NO. DF-2

BERGER/ABAM PROJECT NO.

SHEET NO. 2







---- APPROX, BOTTOM OF WOOD/SILT __ _ _ 1995 OR 1996 EXISTING SURFACE --- PROPOSED DREDGE

HORIZONTAL SCALE: 1"=60' VERTICAL SCALE: 1"=20'

- CONCRETE TRENCH INSTALLATION AND MODIFIED RIPRAP DETAIL NOT SHOWN (SEE DRAWING NO. S-8).
- 2) ELEVATIONS SHOWN ARE IN FEET AND ARE BASED ON MEAN LOWER LOW WATER DATUM (MLLW)
- 3) FOR FILL SURCHARGE LAYOUT SEE DRAWING (DF-7).



▼ HARTMAN ASSOCIATES, INC.

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MARINE TERMINAL IMPROVEMENTS SECTIONAL VIEWS 1

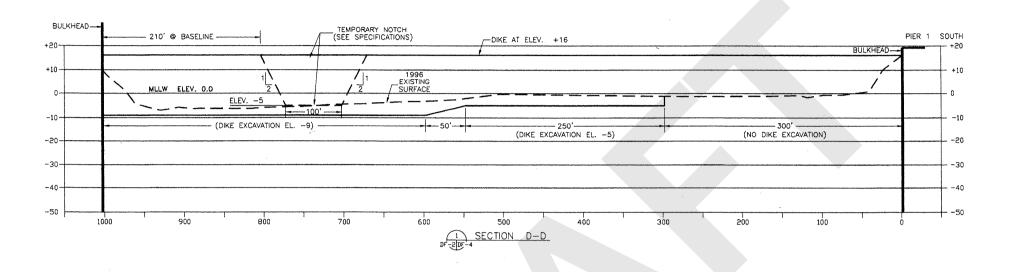
SOUTH WATERWAY AREA

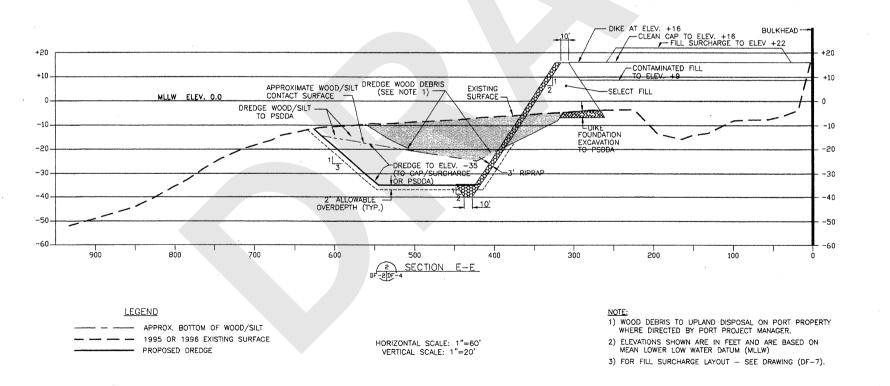
STAGE 1

DRAWING NO. DF-3BERGER/ABAM

PROJECT NO.

SHEET NO. 3







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DRAWN BY	LMB	08/06/96	Δ	SURCHARGE ELEV. CHANGED TO +22'	LB	RW	8/21/96	
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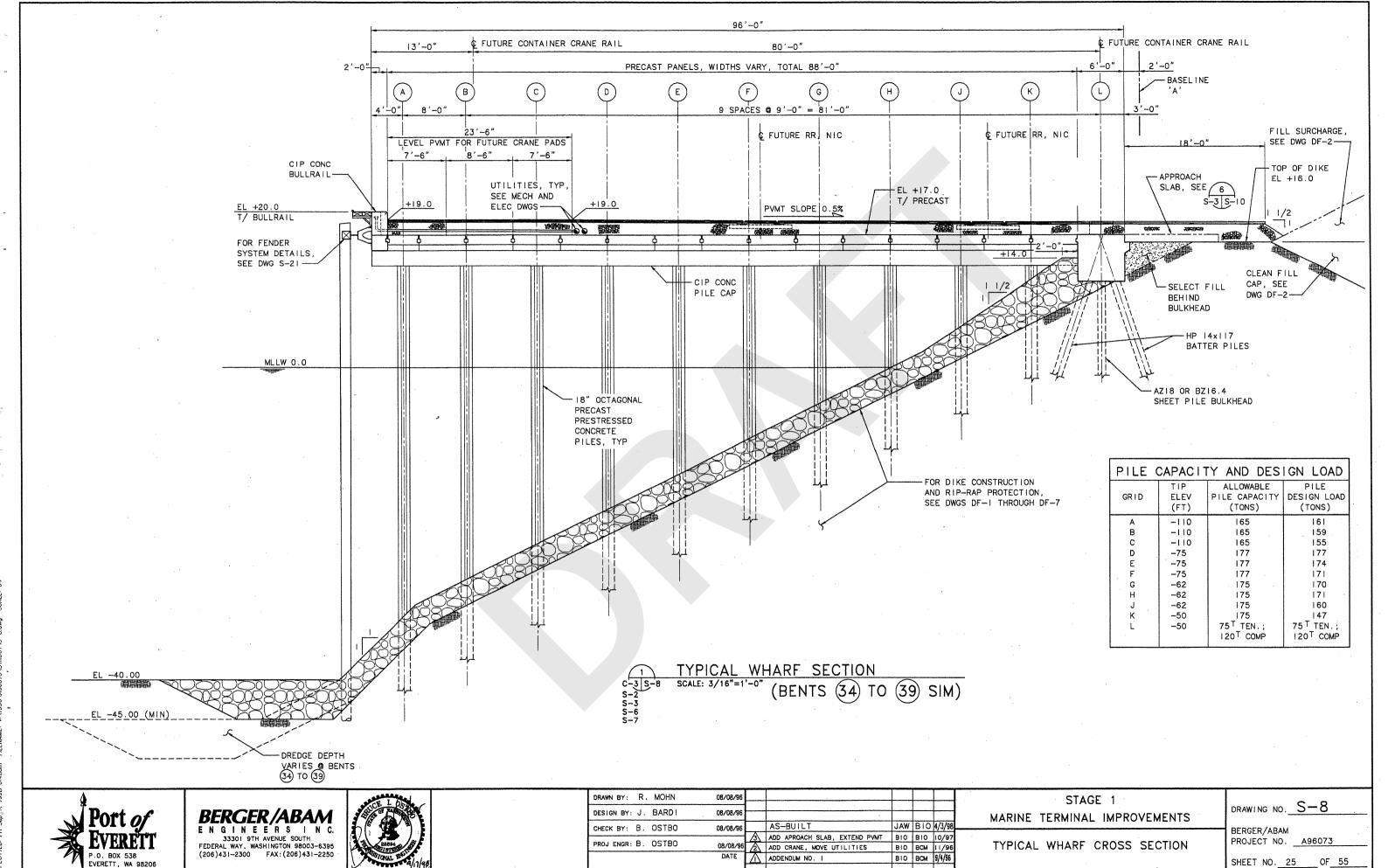
STAGE 1
MARINE TERMINAL IMPROVEMENTS

DRAWING NO. DF-4

BERGER/ABAM
PROJECT NO. ______

SHEET NO. _____4 ___OF __7

SECTIONAL VIEWS 2 SOUTH WATERWAY AREA



BY APP. DATE

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425-259-3164