Annex F

Floating Docks Surveying and Replacement Design 2024

Reference Documents

Drawings and Components List



Reference Drawing List

Note: The drawings provided correspond to the original works and are to be used as a guide only.

General

61/01/01/T1	Title Sheet
61/01/01/T2	General Notes
61/01/01/T3	Standard Barge Units
61/01/01/T4	Standard Barge Attachments
61/01/01/T5	Standard Aluminium Platforms
61/01/01/T6	Standard Aluminium Gangways & Ramps

Hamilton Terminal

13/26/02/HT2	Site Plan
13/26/02/HT3	Barge Assembly Plan
13/26/02/HT4	Aluminium Assembly Plan
13/26/02/HT5	Assembly Connection Details
13/26/02/HT6	Ballasting Plan
13/26/02/HT8	Wall Notch Construction
13/26/02/HT10	Gangway Pier Extension
13/26/02/HT11	Wall Fender
13/26/02/HT12	Mooring Piles
13/26/02/HT13	Misc. Details

Dockvard Terminal

DOCKVAIA ICI	mmai
61/45/01/DY1	Existing Conditions
61/45/01/DY3	Barge & Aluminum Assembly Plan
61/45/01/DY4	Assembly Connections
61/45/01/DY5	Ballasting Plan
61/45/01/DY6	Gangway Notch Plan & Details
61/45/01/DY7	Wall Fender
61/45/01/DY8	Not Included
61/45/01/DY9	Fender Details
61/45/01/DY10	Misc. Details

61/45/01/DY11 Mooring Layout 61/45/01/DY12 Mooring Details

Market Wharf

61/46/01/SG2 Site Layout

61/46/01/SG3 Barge & Aluminium Assembly Plan

61/46/01/SG4 Assembly Connections

61/46/01/SG5 Ballasting Plan

Hamilton Depot

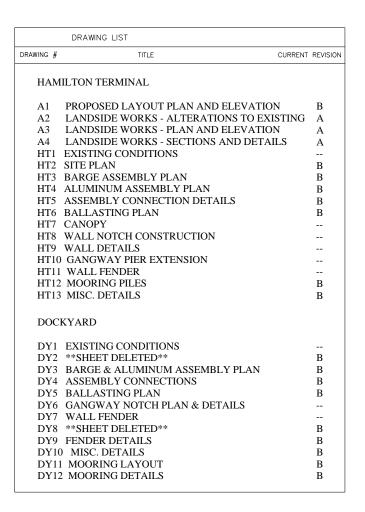
61/35/01/HD3 Barge Assembly Plan

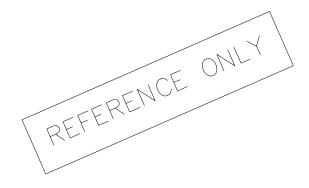
S00 General Arrangement Plan



PHASE 1 DOCK CONSTRUCTION PROJECT NO. 61/01/01 MAY 2001

TITLE		DRAWING LIST		
T1 TITLE SHEET T2 GENERAL NOTES B T3 STANDARD BARGE UNITS B T4 STANDARD BARGE UNITS B T5 STANDARD ALUMINUM PLATFORMS T6 STANDARD ALUMINUM GANGWAYS & RAMPS HAMILTON DEPOT HD1 EXISTING CONDITIONS HD2 SITE LAYOUT B HD3 BARGE ASSEMBLY PLAN HD4 ALUMINUM ASSEMBLY PLAN B HD5 ASSEMBLY CONNECTIONS B HD6 BALLASTING PLAN B HD7 PIER PILE & PILE CAP PLAN B HD7 PIER PILE CAP DETAILS HD9 STRUCTURE ALTERNATIVES HD10 MISCELLANEOUS CONCRETE DETAILS B HD11 WALL AND VESSEL FENDER A HD12 MOORING PILES	DRAWING #	# TITLE	CURRENT	REVISIO
T2 GENERAL NOTES T3 STANDARD BARGE UNITS T4 STANDARD BARGE UNITS T5 STANDARD BARGE ATTACHMENTS T6 STANDARD ALUMINUM PLATFORMS T6 STANDARD ALUMINUM GANGWAYS & RAMPS HAMILTON DEPOT HD1 EXISTING CONDITIONS HD2 SITE LAYOUT HD3 BARGE ASSEMBLY PLAN HD4 ALUMINUM ASSEMBLY PLAN HD5 ASSEMBLY CONNECTIONS HD6 BALLASTING PLAN HD7 PIER PILE & PILE CAP PLAN HD8 PIER PILE CAP DETAILS HD9 STRUCTURE ALTERNATIVES HD10 MISCELLANEOUS CONCRETE DETAILS HD11 WALL AND VESSEL FENDER A HD12 MOORING PILES	GEN	ERAL DRAWINGS		
T3 STANDARD BARGE UNITS T4 STANDARD BARGE ATTACHMENTS B T5 STANDARD ALUMINUM PLATFORMS T6 STANDARD ALUMINUM GANGWAYS & RAMPS HAMILTON DEPOT HD1 EXISTING CONDITIONS HD2 SITE LAYOUT B HD3 BARGE ASSEMBLY PLAN HD4 ALUMINUM ASSEMBLY PLAN HD5 ASSEMBLY CONNECTIONS HD6 BALLASTING PLAN HD7 PIER PILE & PILE CAP PLAN HD8 PIER PILE CAP DETAILS HD9 STRUCTURE ALTERNATIVES HD10 MISCELLANEOUS CONCRETE DETAILS HD11 WALL AND VESSEL FENDER A HD12 MOORING PILES B	T1 7	TITLE SHEET		В
T4 STANDARD BARGE ATTACHMENTS T5 STANDARD ALUMINUM PLATFORMS T6 STANDARD ALUMINUM GANGWAYS & RAMPS HAMILTON DEPOT HD1 EXISTING CONDITIONS HD2 SITE LAYOUT HD3 BARGE ASSEMBLY PLAN HD4 ALUMINUM ASSEMBLY PLAN HD5 ASSEMBLY CONNECTIONS HD6 BALLASTING PLAN HD7 PIER PILE & PILE CAP PLAN HD8 PIER PILE CAP DETAILS HD9 STRUCTURE ALTERNATIVES HD10 MISCELLANEOUS CONCRETE DETAILS HD11 WALL AND VESSEL FENDER HD12 MOORING PILES B	T2 (GENERAL NOTES		В
T5 STANDARD ALUMINUM PLATFORMS T6 STANDARD ALUMINUM GANGWAYS & RAMPS HAMILTON DEPOT HD1 EXISTING CONDITIONS HD2 SITE LAYOUT HD3 BARGE ASSEMBLY PLAN HD4 ALUMINUM ASSEMBLY PLAN HD5 ASSEMBLY CONNECTIONS HD6 BALLASTING PLAN HD7 PIER PILE & PILE CAP PLAN HD8 PIER PILE CAP DETAILS HD9 STRUCTURE ALTERNATIVES HD10 MISCELLANEOUS CONCRETE DETAILS HD11 WALL AND VESSEL FENDER HD12 MOORING PILES B	T3 S	STANDARD BARGE UNITS		В
T6 STANDARD ALUMINUM GANGWAYS & RAMPS HAMILTON DEPOT HD1 EXISTING CONDITIONS HD2 SITE LAYOUT HD3 BARGE ASSEMBLY PLAN HD4 ALUMINUM ASSEMBLY PLAN HD5 ASSEMBLY CONNECTIONS HD6 BALLASTING PLAN HD7 PIER PILE & PILE CAP PLAN HD8 PIER PILE CAP DETAILS HD9 STRUCTURE ALTERNATIVES HD10 MISCELLANEOUS CONCRETE DETAILS HD11 WALL AND VESSEL FENDER HD12 MOORING PILES B	T4 S	STANDARD BARGE ATTACHMENTS		В
HAMILTON DEPOT HD1 EXISTING CONDITIONS	T5 S	STANDARD ALUMINUM PLATFORMS		
HD1 EXISTING CONDITIONS HD2 SITE LAYOUT HD3 BARGE ASSEMBLY PLAN HD4 ALUMINUM ASSEMBLY PLAN HD5 ASSEMBLY CONNECTIONS HD6 BALLASTING PLAN HD7 PIER PILE & PILE CAP PLAN HD8 PIER PILE CAP DETAILS HD9 STRUCTURE ALTERNATIVES HD10 MISCELLANEOUS CONCRETE DETAILS HD11 WALL AND VESSEL FENDER A HD12 MOORING PILES B	T6 S	STANDARD ALUMINUM GANGWAYS & RA	MPS	
HD2 SITE LAYOUT HD3 BARGE ASSEMBLY PLAN HD4 ALUMINUM ASSEMBLY PLAN HD5 ASSEMBLY CONNECTIONS HD6 BALLASTING PLAN HD7 PIER PILE & PILE CAP PLAN HD8 PIER PILE CAP DETAILS HD9 STRUCTURE ALTERNATIVES HD10 MISCELLANEOUS CONCRETE DETAILS HD11 WALL AND VESSEL FENDER A HD12 MOORING PILES B	HAM	IILTON DEPOT		
HD3 BARGE ASSEMBLY PLAN HD4 ALUMINUM ASSEMBLY PLAN HD5 ASSEMBLY CONNECTIONS HD6 BALLASTING PLAN HD7 PIER PILE & PILE CAP PLAN HD8 PIER PILE CAP DETAILS HD9 STRUCTURE ALTERNATIVES HD10 MISCELLANEOUS CONCRETE DETAILS HD11 WALL AND VESSEL FENDER HD12 MOORING PILES B	HD1	EXISTING CONDITIONS		
HD4 ALUMINUM ASSEMBLY PLAN HD5 ASSEMBLY CONNECTIONS HD6 BALLASTING PLAN HD7 PIER PILE & PILE CAP PLAN HD8 PIER PILE CAP DETAILS HD9 STRUCTURE ALTERNATIVES HD10 MISCELLANEOUS CONCRETE DETAILS HD11 WALL AND VESSEL FENDER HD12 MOORING PILES B	HD2	SITE LAYOUT		В
HD5 ASSEMBLY CONNECTIONS B HD6 BALLASTING PLAN B HD7 PIER PILE & PILE CAP PLAN A HD8 PIER PILE CAP DETAILS HD9 STRUCTURE ALTERNATIVES HD10 MISCELLANEOUS CONCRETE DETAILS B HD11 WALL AND VESSEL FENDER A HD12 MOORING PILES B	HD3	BARGE ASSEMBLY PLAN		В
HD6 BALLASTING PLAN B HD7 PIER PILE & PILE CAP PLAN A HD8 PIER PILE CAP DETAILS HD9 STRUCTURE ALTERNATIVES HD10 MISCELLANEOUS CONCRETE DETAILS B HD11 WALL AND VESSEL FENDER A HD12 MOORING PILES B	HD4	ALUMINUM ASSEMBLY PLAN		В
HD7 PIER PILE & PILE CAP PLAN A HD8 PIER PILE CAP DETAILS HD9 STRUCTURE ALTERNATIVES HD10 MISCELLANEOUS CONCRETE DETAILS B HD11 WALL AND VESSEL FENDER A HD12 MOORING PILES B	HD5	ASSEMBLY CONNECTIONS		В
HD8 PIER PILE CAP DETAILS HD9 STRUCTURE ALTERNATIVES HD10 MISCELLANEOUS CONCRETE DETAILS B HD11 WALL AND VESSEL FENDER A HD12 MOORING PILES B	HD6	BALLASTING PLAN		В
HD9 STRUCTURE ALTERNATIVES HD10 MISCELLANEOUS CONCRETE DETAILS HD11 WALL AND VESSEL FENDER HD12 MOORING PILES B	HD7	PIER PILE & PILE CAP PLAN		A
HD10 MISCELLANEOUS CONCRETE DETAILS B HD11 WALL AND VESSEL FENDER A HD12 MOORING PILES B				
HD11 WALL AND VESSEL FENDER A HD12 MOORING PILES B	HD9	STRUCTURE ALTERNATIVES		
HD12 MOORING PILES B	HD10) MISCELLANEOUS CONCRETE DETAILS		В
	HD1	1 WALL AND VESSEL FENDER		A
HD13 MISC. DETAILS B	HD12	2 MOORING PILES		В
	HD13	3 MISC. DETAILS		В





	DRAWING LIST		
DRAWING	# TITLE	CURRENT	REVISION
ST. C	EORGE'S		
SG1	EXISTING CONDITIONS	,	
SG2	SITE LAYOUT		В
SG3	BARGE & ALUMINUM A	ASSEMBLY PLAN	В
SG4	ASSEMBLY CONNECTION	NC	В
	BALLASTING PLAN		В
SG6	PIER PLAN AND DETAIL	LS	
~ ~ .	MOORING PILES		В
	MISC. DETAILS		В
SG9	PLAN, SECTIONS AND I	DETAILS	
ROC	KAWAY TERMINAL		
RW1	EXISTING CONDITION	S	
RW2	SITE LAYOUT		
10110	ACCESS RAMP PLAN &	C DDD (IIIIOI)	В
	ACCESS RAMP REINFO		A
	OUTSHORE PLATFORM		AB
	PIER PLAN & ELEVATI		
	PIER PILE/PILECAP PL		
	PILE & PILE CAP DETA		
	SHEETING ELEVATION		
) PIER STRUCTURE AL'		
	I PIER NOTCH PLAN &		
	2 PIER ATTACHMENT I		
	BERTHING DOLPHINS	S	
	4 DOLPHIN DETAILS	AND DEPART OF	
	GANGWAY HOIST PL		 D
	5 DOLPHIN ASSEMBLY	PLANS & DETAILS	В
KWI	7 MISC. DETAILS		

Reference Drawings

THE MINISTRY OF WORKS AND ENGINEERING

P.O. Box HM525 Hamilton HMCX Bermuda Phone: (441)295-5151

> ENGINEERING and OPERATIONS DIVISION Fax: (441)295-0170

Structures Section



GENERAL NOTES:

ISSUED FOR: REFERENCE ONLY 2016 09 07

	MENTS: REVISION	LAPP	I DATE
		7 11 1	Ditte
B N	OTES	RRB	04/01
∠c\ R	EFERENCE ONLY	MAM	2016
Λ		1.	

SCALE: NO SCALE SURVEY PREPARED BY: DATE: DESIGN PREPARED BY: 23/05/01 CHECKED BY: RRB 23/05/01 **DRAWING** PREPARED BY: 23/05/01 CHECKED BY: APPROVED BY: PROJECT NUMBER: 61/01/01 PROJECT NAME:

REPLACEMENT FERRY PROJECT PHASE I DOCK CONSTRUCTION

DRAWING FILE NO: ACAD R-14
TITLE SHT REV.dwg
SHEET TITLE:

ncei iiile.

TITLE SHEET

SHEET NUMBER: 61/01/01/T1



GENERAL NOTES:

ALL ELEVATIONS ARE IN ORDNANCE DATUM MEAN HIGH WATER (MHW) = 0.80 m MEAN LOW WATER (MLW) = -0.60 m

HURRICANE STORM SURGE ELEVATIONS

	Cat 1 Hurricane	Cat 3 Hurricane	Cat 5 Hurricane
Terminal Location	Max Surge (m)	Max Surge (m)	Max Surge (m)
Hamilton Depot	0.79	1.56	2.34
Hamilton Terminal	0.79	1.56	2.34
Rockaway	1.72	3.05	4.39
Dockyard	0.82	1.52	2.33
St. George's	0.56	1.05	1.63

DESIGN LOADS

4800 N/M² Ramps and Platforms (uniform) Ramps and Platforms Concentrated 1335 N (25 cm² Area) Guardrails (uniform) 1460 N/M Guardrails (concentrated) 1110 N 730 N/M Handrails (uniform) Handrails (concentrated) 1110 N Wind Load 2000 N/M

(110 MPH sustained with gusting factor)

essel Berthing Speed		
Normal	Side	4.6 KPH
	Bow	2.8 KPH
Extreme	Side	10 KPH
	Bow	5 KPH

2300 mm Warwick Class 1070 mm

Barge Design Freeboard

1380 mm Type III, IV

CODES

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM) AMERICAN WELDING SOCIETY (AWS)

AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC)

ALUMINUM ASSOCIATION SPECIFICATIONS FOR ALUMINUM STRUCTURES

AMERICAN CONCRETE INSTITUTE (ACI)

CONCRETE REINFORCING STEEL INSTITUTE (CRSI)

AMERICAN BUREAU OF SHIPPING - RULES FOR BUILDING AND CLASSING STEEL BARGES (ABS) STEEL STRUCTURES PAINTING COUNCIL (SSPC)

BOCA NATIONAL BUILDING CODE

FOUNDATION

MOORING PILE TYPE I

15 TONS MOORING PILE TYPE II 25 TONS

MOORING PILE TYPE III 25 TONS ALL BEARING PILES 50 TONS

HAMILTON TERMINAL DOLPHIN 60 TONS TOTAL CAPACITY FOR GROUP

BEARING CAPCITY

ROCKAWAY RETAINING WALLS

AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS, LATEST EDITIONS

ALL STEEL PLATE AND ANGLES SHALL BE WEATHERING STEEL AND SHALL CONFORM TO

ALL OTHER STRUCTURAL STEEL SHAPES, UNLESS OTHERWISE NOTED, SHALL

ALL STAINLESS STEEL BARS AND SHAPES SHALL CONFORM TO ASTM A276. TYPE 316 ALLOY.

ALL NUTS, BOLTS AND WASHERS SHALL BE STAINLESS STEEL ASTM F593. TYPE 316 ALLOY

MACHINE AND EYE BOLTS SHALL BE STAINLESS STEEL AND CONFORM TO ASTM A276, TYPE 316 ALLOY UNLESS OTHERWISE NOTED

ANCHOR BOLTS SHALL BE STAINLESS STEEL TYPE 316 ALLOY AND CONFORM TO ASTM A276 AND A479

WELDING RODS SHALL CONFORM TO AWS E70XX GRADE.

ALL STAINLESS STEEL WELDING SHALL CONFORM TO ASTM A530.

ALL WELDING OF WEATHERING STEEL SHALL BE ANSI / AASHTO / AWS D1.5-88. CONTRACTOR SHALL USE LOW-HYDROGEN ELECTRODES AND FOLLOW ALL MINIMUM PREHEAT SUGGESTIONS IN ANSI / AWS D1.1-92

GALVANIZING SHALL BE BY THE HOT DIP METHOD ACCORDING TO ASTM SPECIFICATIONS A-123 AND A-153 UNLESS OTHERWISE NOTED. HOT DIP GALVANIZING SHALL BE IN A DRY KETTLE METHOD, WITH A ZINC-NICKEL ALLOY, IN ACCORDANCE WITH ASTM A 123, ASTM A 153 AND ASTM A385, AS APPLICABLE, GALVANIZING SHALL BE DONE WITH A NICKEL ENRICHMENT OF THE GALVANIZING TANK SUCH AS "NIGALV" OR APPROVED EQUAL

ALUMINUM

THE DECKING FOR BOTH THE GANGWAY, RAMPS AND PLATFORMS SHALL BE NON-SKID WITH EITHER A RAISED RIB PROFILE WITH THE RIBS NO HIGHER THAN 1/4" AND PERPENDICULAR TO THE FLOW OF TRAFFIC, OR COVERED WITH A UNIFORM CARBORUMDUM SURFACE. SURFACES CAPABLE OF HAVING A SLOPE OF THAT IS STEEPER 1:12 SHALL HAVE A STATIC COEFFICIENT OF FRICTION OF 0.8 OR GREATER WHEN WET. SURFACES WHERE THE SLOPE WILL ALWAYS BE 1:12 OR LESS SHALL HAVE A STATIC COEFFICIENT OF FRICTION OF 0.5 OR GREATER WHEN WET.

ALL NUTS, BOLTS AND WASHERS SHALL BE STAINLESS STEEL ASTM F593 TYPE 316 ALLOY. NUTS SHALL

EXPANSION JOINT MATERIAL BETWEEN ALUMINUM PLATFORMS SHALL BE CROSS LINKED POLYETHYLENE METASEALAS MANUFACTURED BY CAPITAL SERVICES OF NY, INC, TO THE DIMENSIONS SHOWN ON THE CONTRACT DOCUMENTS

GANGWAY CONNECTION PINS AND SLEEVES SHALL BE STAINLESS STEEL AND MEET ASTM A269 TYPE 316 ALLOY

COATINGS

ALL COATINGS SHALL BE FROM THE SAME MANUFACTURER UNLESS OTHERWISE AGREED BY THE OWNER. ALL COATINGS SHALL BE TWO PART EPOXY, MIXED IMMEDIATELY PRIOR TO INSTALLATION.

ALL STEEL SHALL BE CLEANED AND PREPARED AS RECOMMENDED BY THE MANUFACTURER FOR EACH TYPE OF COATING PRIOR TO FABRICATION

SANDBLASTING SHALL MEET THE REQUIREMENTS OF SSPC-SP10 "NEAR-WHITE BLAST CLEANING"

COATINGS SHALL MEET THE REQUIREMENTS OF SSPC-PS 13.01

COATING ON ALL STEEL PLATE AND SHAPES, ALL FIELD WELDED OR DAMAGED AREAS SHALL BE

THE EXTERIOR OF THE BARGE. SIDES AND BOTTOM SHALL BE COATED WITH AMERCOAT 235 TWO PART EPOXY WITH 68% SOLIDS OR APPROVED EQUAL. THERE SHALL BE A MINIMUM OF TWO COATS WITH A FINAL DRY FILM THICKNESS OF 16 MILS (MINIMUM, NOT AVERAGE). THERE SHALL BE A STRIP COAT OVER SHARP EDGES. CUTOUTS AND WELDS. THERE SHALL BE CONTRASTING COLORS FOR EACH COAT. WITH THE FINAL COLORS DARK GREY ABOVE THE WATERLINE AND LIGHT BLUE BELOW THE WATERLINE. ALL SURFACES MUST BE INSPECTED PRIOR TO COATING.

THE DECK OF THE BARGE SHALL BE COATED WITH AMERCOAT 238 TWO PART EPOXY WITH 77% SOLIDS OR APPROVED EQUAL. THERE SHALL BE A MINIMUM OF TWO COATS WITH A FINAL DRY FILM THICKNESS OF 16 MILS (MINIMUM, NOT AVERAGE). THE FINAL COAT SHALL CONTAIN AMERON FINE GRIT 886 ALUMINUM OR APPROVED EOUAL. THERE SHALL BE A STRIP COAT OVER SHARP EDGES. CUTOUTS AND WELDS. THERE SHALL BE CONTRASTING COLORS FOR EACH COAT WITH THE FINAL COLORS LIGHT GREY. ALL SURFACES MUST BE INSPECTED PRIOR TO COATING.

THE CONTRACTOR SHALL FOLLOW ALL RECOMMENDATIONS OF THE MANUFACTURER

ALL BARGE DECKS OR OTHER STEEL WALKING SURFACES SHALL HAVE A LIGHT GRAY COLOR COATING AND SHALL HAVE A NON-SKID FINISH

STEEL BARGES

TACTILE WARNING STRIP SHALL BE DETECTABLE WARNING SURFACE AS MANUFACTURED BY AMS TACTILE SYSTEMS, LLC, STOUGHTON, MA OR APPROVED EQUAL.

ANODES SHALL BE ALOLINE GALVANIC ALUMINUM ANODES 29FM, MANUFACTURED BY FARWEST CORROSION, GARRDENA CA OR EQUAL. CONSUMPTION RATE OF 7.6 PONDS PER AMP YEAR, NO MERCURY ALLOWED. ALL ANODE CONNECTIONS SHALL BE BOLTED.

TYPE I BARGE UNITS SHALL HAVE 16 ANODES (MIN) TYPE II BARGE UNITS SHALL HAVE 12 ANODES (MIN) TYPE III BARGE UNITS SHALL HAVE 12 ANODES (MIN) TYPE IV BARGE UNITS SHALL HAVE 6 ANODES (MIN).

TYPE I PILE GUIDE SHALL HAVE 2 ANODES (MIN). TYPE II PILE GUIDE SHALL HAVE 2 ANODES (MIN). TYPE III PILE GUIDE SHALL HAVE 1 ANODES (MIN).

BOW LOADER UNITS SHALL HAVE 4 ANODES (MIN)

ALL BALLAST SHALL BE PLACED ON CCA TREATED TIMBER CROSS FRAMED TO PREVENT MOVEMENT OF THE TIMBER, TIMBER SHALL BE INSTALLED AND SECURED SUCH THAT MOVEMENT OF THE TIMBER IS NOT ALLOWED. NO DIRECT ATTACHMENT OF THE TIMBER TO THE BARGE SHALL BE ALLOWED. ALL DULT PROJECT TIMBER SHALL BE FASTENED USING STAINLESS STEEL THROUGH BOLTS WITH NO BOLT PROJECTIONS ON THE EXPOSED BALLAST DECK FACE.

BALLAST SHALL BE CONCRETE OR LEAD BLOCK.

FENDER PANELS

THE RUBBER ELEMENTS USED SHALL BE CONE TYPE UNIT AS MANUFACTURED BY SUMITOMO. FENDER UNIT SHALL BE SUMITOMO PVT-600H, WITH CT2 TYPE RUBBER OR APPROVED EQUAL. FENDERS SHALL BE MOLDED RUBBER UNITS WITH METAL MOUNTING PLATES IMBEDDED IN AND BONDED TO THE ENDS TO CREATE AN INTEGRAL UNIT AT BOTH CONNECTION FACES. FENDER UNITS SHALL BE RESISTANT TO OZONE, SUNLIGHT, TEMPERATURE EXTREMES, MARINE GROWTH, WEAR AND ABRASION. EMBEDDED STEEL PLATES SHALL CONFORM TO ASTM A36 OR BETTER.

THE RUBBER PERFORMANCE CHARACTERISTICS SHALL BE:

RATED DEFLECTION 57.5% - REACTION LOAD 25.7 ton / ENERGY ABSORPTION 6.4 ton-M MAXIMUM DEFLECTION 60% - REACTION LOAD 28.2 ton / ENERGY ABSORPTION 6.8 ton-M

FENDER PANEL CHAINS SHALL BE GALVANIZED, SPECTRUM 4 HIGH STRENGTH CHAIN AS MANUFACTURED BY CROSBY GROUP OR APPROVED EOUAL HAVING A SAFE WORKING LOAD CAPACITY OF 18,500 POUNDS

CONNECTING LINKS SHALL BE OF THE SIZE SHOWN ON THE PLAN AND SHALL BE LOK-A-LOY-6 CONNECTING LINKS AS MANUFACTURED BY CROSBY GROUP OR APPROVED EQUAL HAVING A SAFE WORK LOAD CAPACITY OF 23,000 POUNDS.

RUBBER FENDER FACING: MATERIAL SHALL BE A SOLID RUBBER. NATURAL OR SYNTHETIC AND CONFORM TO ASTM D2000 CALLOUT 3BA720A14B13C12EA14F17G11 (G11≥250 LB/SQ IN) AS MANUFACTURED BY MARITIME INTERNATIONAL, INC. OR APPROVED EQUAL

FENDER PANEL PERIMETER: PERIMETER OF PANEL SHALL BE COVERED WITH UHMW-PE.

CONCRETE WORKS

ALL REINFORCEMENT SHALL BE NEW DEFORMED BILLET STEEL BARS, GRADE 60, AND GALVANIZED IN ACCORDANCE WITH ASTM A-123.

REINFORCEMENT ACCESSORIES SHALL BE DIELECTRIC COATED STEEL OR APPROVED PLASTIC FORM COATINGS SHALL BE NON-GRAIN RAINING AND NON-STAINING TYPE THAT DO NOT LEAVE RESIDUE

THERE ARE TWO TYPES OF AGGREGATE FOR THE PROJECT. IMPORTED AGGREGATE SHALL MEET ASTM C33 FOR FINE COARSE AGGREGATES. LOCAL BERMUDA AGGREGATE SHALL BE APPROVED BY THE OWNER PRIOR TO USE

NO WATER SHALL BE ADDED AT THE SITE DURING PLACEMENT OPERATIONS. ALL CONCRETE SHALL MEET SLUMP REQUIREMENTS FOR THE TYPE AND LOCATION.

AIR ENTRAINMENT SHALL BE MAINTAINED AT 3% - 5% FOR ALL CONCRETE WORKS. TYPE A GROUT IS CEMENTATIOUS GROUT THAT IS NON-METALLIC AND CONTAINS NO CHLORIDE. TYPE B SHALL BE A HIGH STRENGTH, NON-SHRINK GROUT WITH SALTWATER RESISTANCE SUCH AS FIVE STAR GROUT 120.

CONSTRUCTION JOINTS SHALL BE A MAXIMUM OF 40 APART

EXPANSION JOINTS SHALL INCLUDE A JOINT FILLER, BOND BREAKER AND JOINT SEALANT. CONCRETE SHALL BE CURED FOR 7 DAYS AND KEEP IN A MOIST CONDITION FOR THIS ENTIRE TIME

PILE JACKETS

ALL CONCRETE FOR PILE JACKETING SHALL BE 4000 PSI CONCRETE WITH 3/8" (3/4" ALLOWED IF LARGER PIPE USED FOR PLUMBING) IMPORTED AGGREGATE.

PILE JACKETS SHALL BE ¼" THICK MINIMUM FIBERGLASS JACKET THAT NEST ON EACH TO PROVIDE THE SUFFICIENT LENGTH OF JACKET.

THE BOTTOM OF THE FORM REQUIRES A 200MM EPOXY GROUT PLUG THAT HAS FULLY CURED PRIOR TO PLACEMENT OF CONCRETE.

THE JACKETS SHALL HAVE REINFORCING BANDS AS RECOMMENDED BY THE MANUFACTURER OF THE

HOIST SYSTEM

THE MECHANICAL WINCH SHALL BE JEAMAR CMA HEAVY DUTY SEAWORTHY ALUMINUM MODEL CMA

THE ELECTRICAL WINCH SHALL BE THE JEAMAR NLS2000 HEAVY DUTY LIFTING WINCH, SINGLE PHASE. THE WIRE ROPE SHALL BE THE STEEL WIRE ROPE, 6X37 IWRC, EIPS AS SUPPLIED BY JEAMAR WITH THE

ALL SHEAVES AND BLOCKS SHALL BE JEAMAR UNITS THAT ARE SEALED AND SELF LUBRICATING. REMOTE WINCH CONTROLLER AND ELECTRICAL BOX SHALL BE WEATHER TIGHT, LOCKING AS SUPPLIED BY JEAMAR WITH THE UNITS

ALL CABLE DIRECTED TO BE SUBAQUEOUS SHALL BE MINING CABLE - 600/2000 VOLT TYPE G OR GC THREE CONDUCTOR ROUND CABLE.

MISCELLANEOUS ITEMS

ALL FRICTION SURFACES SHALL HAVE A DYNAMIC COEFFICIENT OF FRICTION OF 0.10 - 0.14 (DRY). MATERIAL SHALL HAVE A DENSITY OF 0.93 g/cm 3 , MINIMUM TENSILE STRENGTH OF 4000 psi, ABRASION INDEX OF 10 (SAND SLURRY), A SAND ON WHEEL INDEX OF 100cc (ASTM G65) AND A DUROMETER

ALL HATCHES SHALL BE REMOVABLE WITH A MINIMUM OPENING OF 0.680M CLEAR HATCHES SHALL. BE WATERTIGHT WITH A NEOPRENE GASKET THAT CONFORMS TO MIL SPEC MIL R-6855 CLASS 2 NEOPRENE GRADE 60. HATCH SHALL BE SECURED WITH STAINLESS STEEL SOCKET SCREWS, FLUSH TO

ALL DISSIMILAR METALS SHALL BE SEPARATED WITH PLASTIC SHEETS OR BUSHINGS NO LESS THAN 1.59MM (1/16") THICK. PLASTIC PADS SHALL BE PLACED UNDER ALL ALUMINUM BASE PLATES AND BUSHINGS INSTALLED BETWEEN ALL STAINLESS STEEL STUDS. THE SEPARATION MATERIAL SHALL BE NYLATRON-GS PLASTIC CONFORMING TO MILITARY SPECIFICATION MIL-P-15035

RAILING SHALL BE 1 1/2" I.P.S. SCHEDULE 40 INTER-RAIL TYPE WITH HEAVY DUTY BASE PLATES.

THE MINISTRY OF WORKS AND ENGINEERING

P.O. Box HM525 Hamilton HMCX Bermuda Phone: (441)295-5151

ENGINEERING and OPERATIONS DIVISION Fax: (441)295-0170

Structures Section



GENERAL NOTES:

ISSUED FOR: REFERENCE ONLY 2016 09 07

AMENDMENTS:

NO:	REVISION	APP	DATE:
A	Revised as noted	RJT	14/08/01
A	Revised as noted	RRB	04/01/02
Δ	Revised as noted	MAM	2016 09 0
_			
_			
Δ	•		•

SCALE: NONE

SURVEY PREPARED BY DATE: **DESIGN** PREPARED BY:

16/03/01 DRG CHECKED BY DATE: 16/03/01 PREPARED BY:

16/03/01 DATE: 16/03/01 APPROVED BY:

PROJECT NUMBER:

61/01/0 PROJECT NAME:

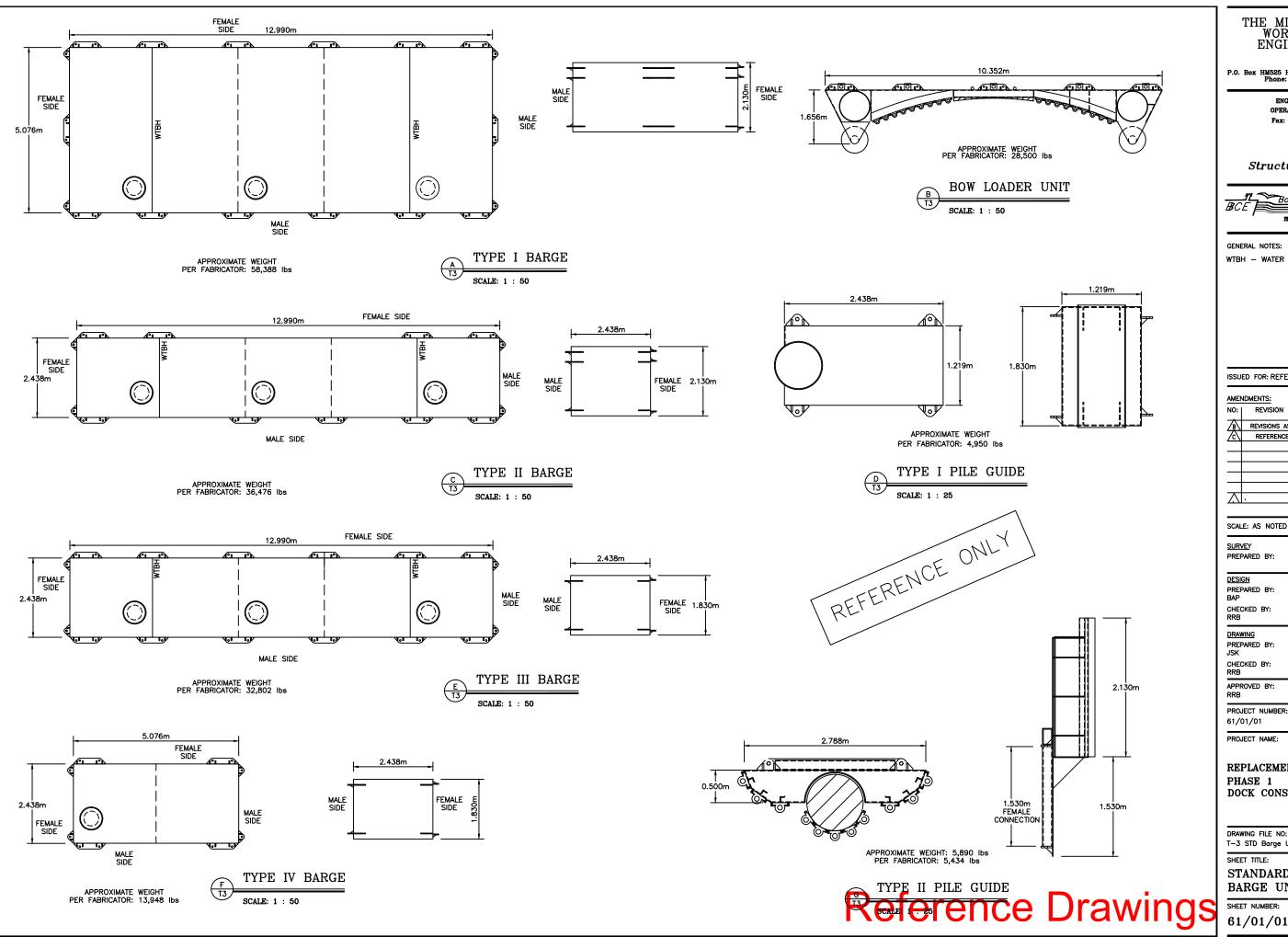
REPLACEMENT FERRY PROJEC PHASE I DOCK CONSTRUCTION

DRAWING FILE NO: ACAD R-14 T-2 gen notes.dwg

GENERAL NOTES



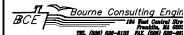
Reference Drawing SHEET NUMBER: 61/01/01/T2



P.O. Box HM525 Hamilton HMCX Bermud Phone: (441)295-5151

ENGINEERING and OPERATIONS DIVISION Fax: (441)295-0170

Structures Section



GENERAL NOTES:

WTBH - WATER TIGHT BULKHEAD

ISSUED FOR: REFERENCE ONLY 2016 09 07

AMEN	IDMENTS:		
NO:	REVISION	APP	DATE:
<u> </u>	REVISIONS AS NOTED	RRB	04/01/02
7€ \	REFERENCE ONLY	МАМ	2016 09 0
		<u> </u>	
$I \cap A I$		Ι.	Ι.

SCALE: AS NOTED SURVEY PREPARED BY: DATE: DESIGN PREPARED BY: BAP DATE: 23/05/01 CHECKED BY: RRB DATE: 23/05/01 DRAWING PREPARED BY: JSK DATE: 23/05/01 CHECKED BY: DATE: 23/05/01 APPROVED BY:

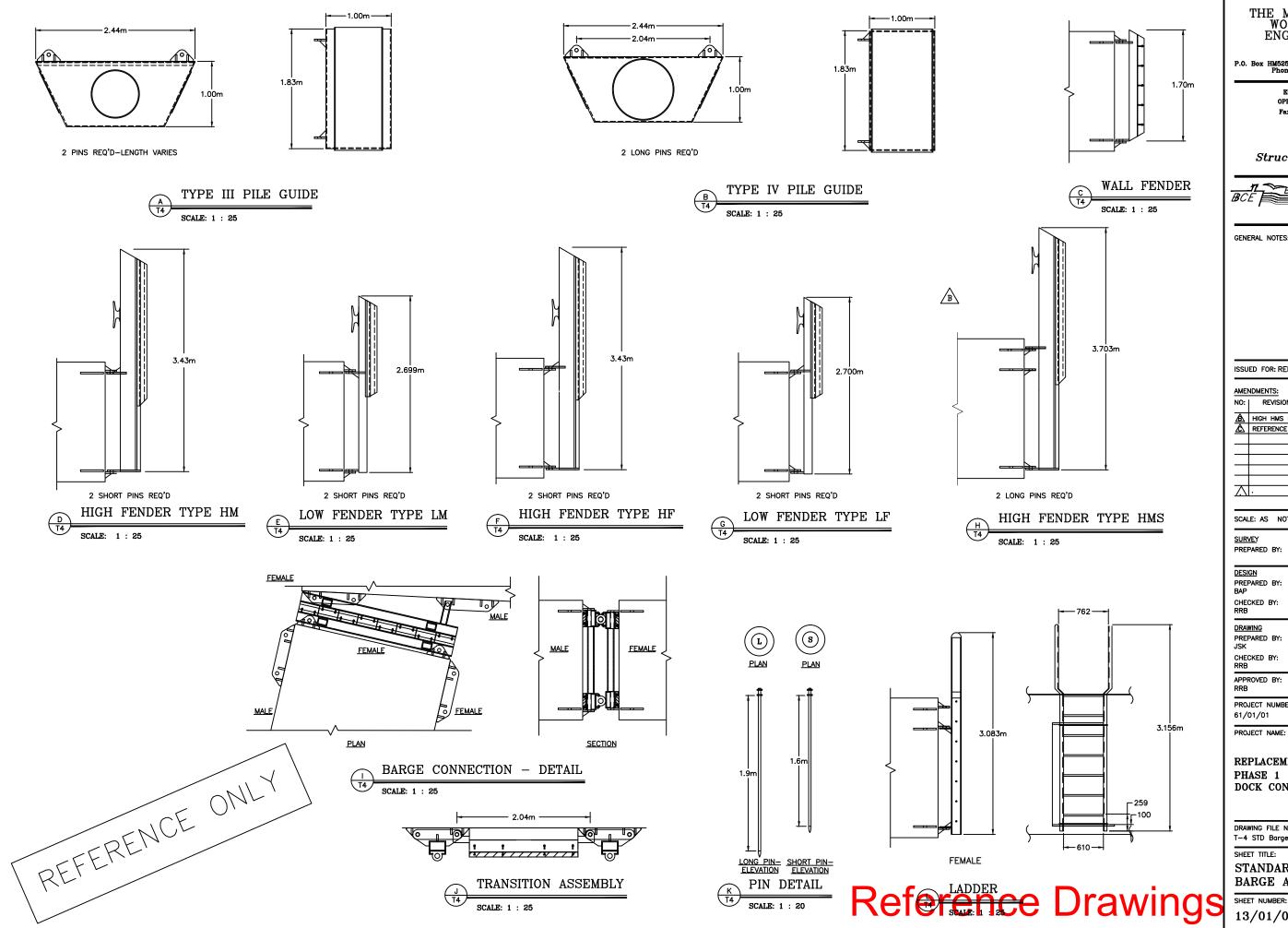
PROJECT NAME:

REPLACEMENT FERRY PROJEC PHASE 1 DOCK CONSTRUCTION

DRAWING FILE NO: ACAD R-14 T-3 STD Barge Units.dwg SHEET TITLE:

STANDARD BARGE UNITS

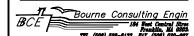
SHEET NUMBER: REVISION \bar{C}\ 61/01/01/T3



P.O. Box HM525 Hamilton HMCX Ber Phone: (441)295-5151

ENGINEERING and OPERATIONS DIVISION Fax: (441)295-0170

Structures Section



GENERAL NOTES:

ISSUED FOR: REFERENCE ONLY 2016 09 07

NO:	REVISION	APP	DATE:
A	HIGH HMS FENDER	RRB	04/01/02
◬	REFERENCE ONLY	MAM	2016 09 0
_			
Λ	.	1.	

SCALE: AS NOTED	
SURVEY PREPARED BY:	DATE:
DESIGN PREPARED BY: BAP	DATE: 23/05/0
CHECKED BY: RRB	DATE: 23/05/0
DRAWING	
PREPARED BY: JSK	DATE: 23/05/0
CHECKED BY: RRB	DATE: 23/05/0
APPROVED BY: RRB	
PROJECT NUMBER: 61/01/01	
,,	

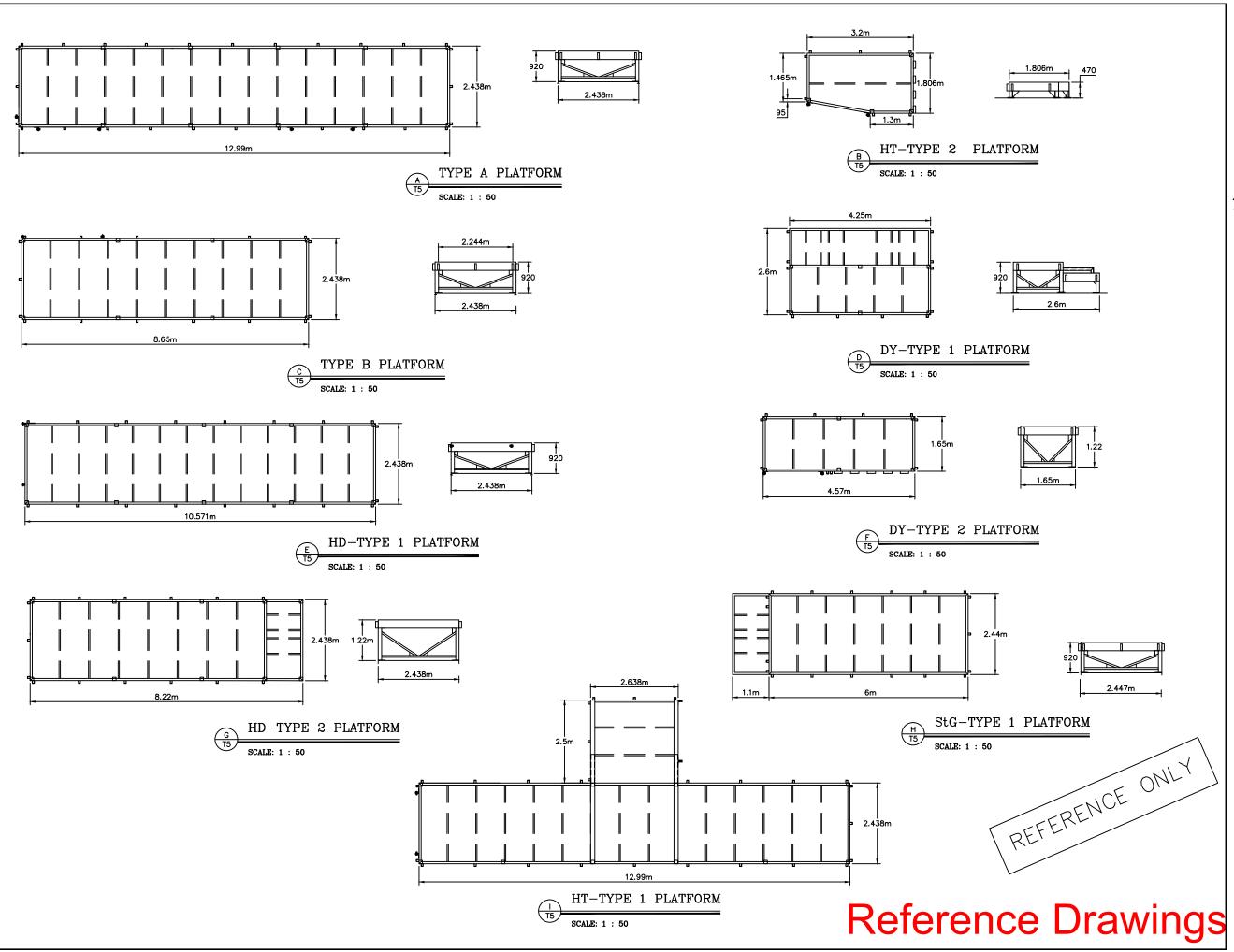
REPLACEMENT FERRY PROJEC PHASE 1 DOCK CONSTRUCTION

DRAWING FILE NO: T-4 STD Barge Attachments.dwg

SHEET TITLE:

STANDARD BARGE ATTACHMENTS

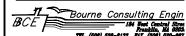
SHEET NUMBER: REVISION 13/01/01/T4



P.O. Box HM525 Hamilton HMCX Bermud Phone: (441)295-5151

> ENGINEERING and OPERATIONS DIVISION Fax: (441)295-0170

Structures Section



GENERAL NOTES:

ISSUED FOR: REFERENCE ONLY 2016 09 07

NO:	REVISION	APP	DATE:
-			
\dashv			
M			

SCALE: 1 :

SURVEY PREPARED BY:	DATE:
DESIGN PREPARED BY:	DATE:
BAP	23/05/
CHECKED BY: RRB	DATE: 23/05/
DRAWING	
PREPARED BY: JSK	DATE: 23/05/
CHECKED BY: RRB	DATE: 23/05/
APPROVED BY:	

PROJECT NUMBER:

61/01/01

PROJECT NAME:

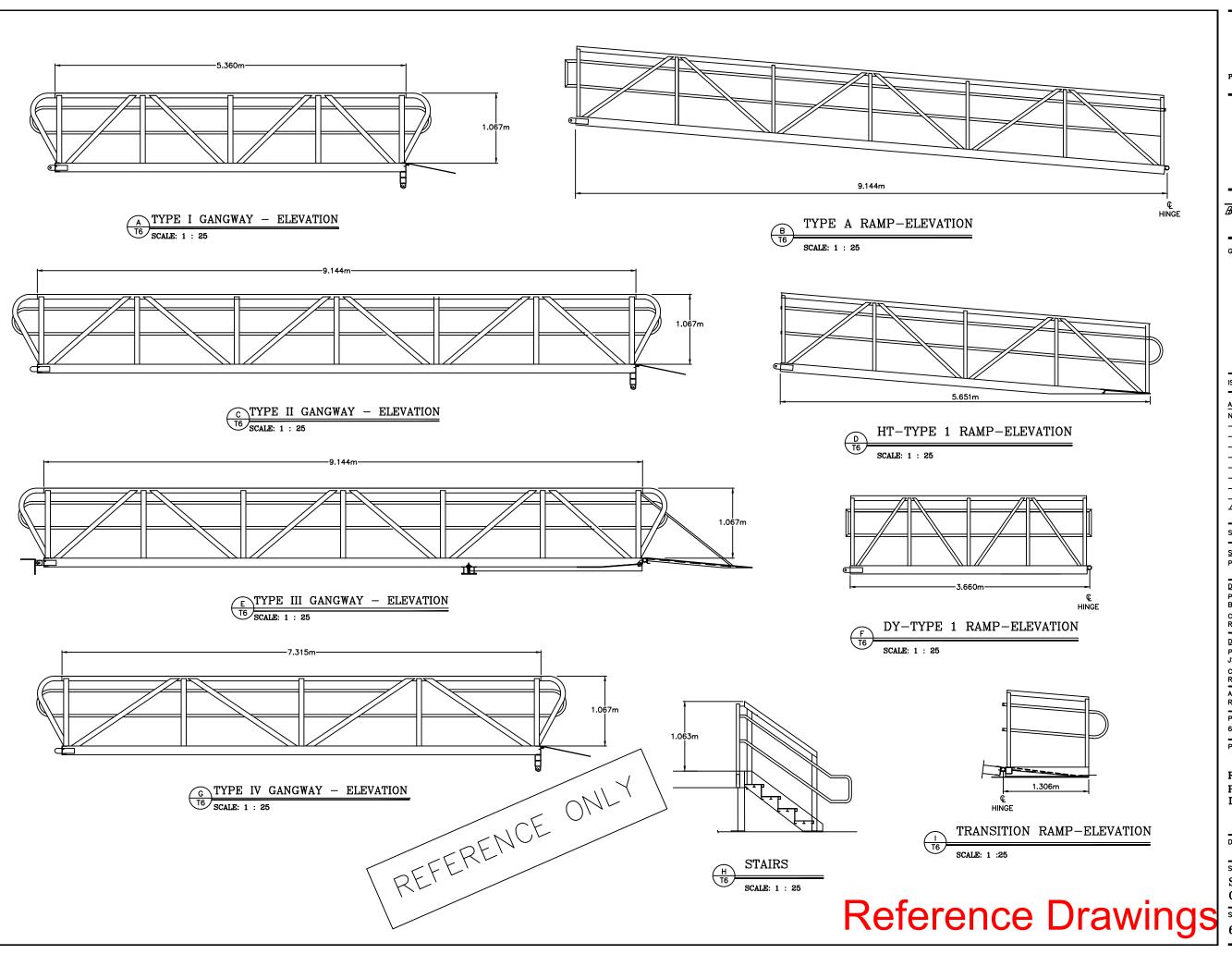
REPLACEMENT FERRY PROJECT PHASE 1
DOCK CONSTRUCTION

DRAWING FILE NO: ACAD R-14
T-5 STD Aluminum Platforms.dwg

SHEET TITLE:

STANDARD ALUMINUM PLATFORMS

SHEET NUMBER: REVISION 61/01/01/T5



P.O. Box HM525 Hamilton HMCX Bermu

OPERATIONS DIVISION Fax: (441)295-0170

Structures Section



GENERAL NOTES:

ISSUED FOR: REFERENCE ONLY 2016 09 07

NO:	REVISION	APP	DATE:
_			
\rightarrow			
$\overline{}$			
<u>/.\l·</u>		•	

20115: 4 : 0

SCALE: 1 : 25	
SURVEY PREPARED BY:	DATE:
DESIGN PREPARED BY: BAP	DATE: 23/05/0
CHECKED BY: RRB	DATE: 23/05/0
DRAWING	
PREPARED BY: JSK	DATE: 23/05/0
CHECKED BY: RRB	DATE: 23/05/0
APPROVED BY:	

RRB

PROJECT NUMBER: 61/01/01

PROJECT NAME:

REPLACEMENT FERRY PROJECT PHASE 1
DOCK CONSTRUCTION

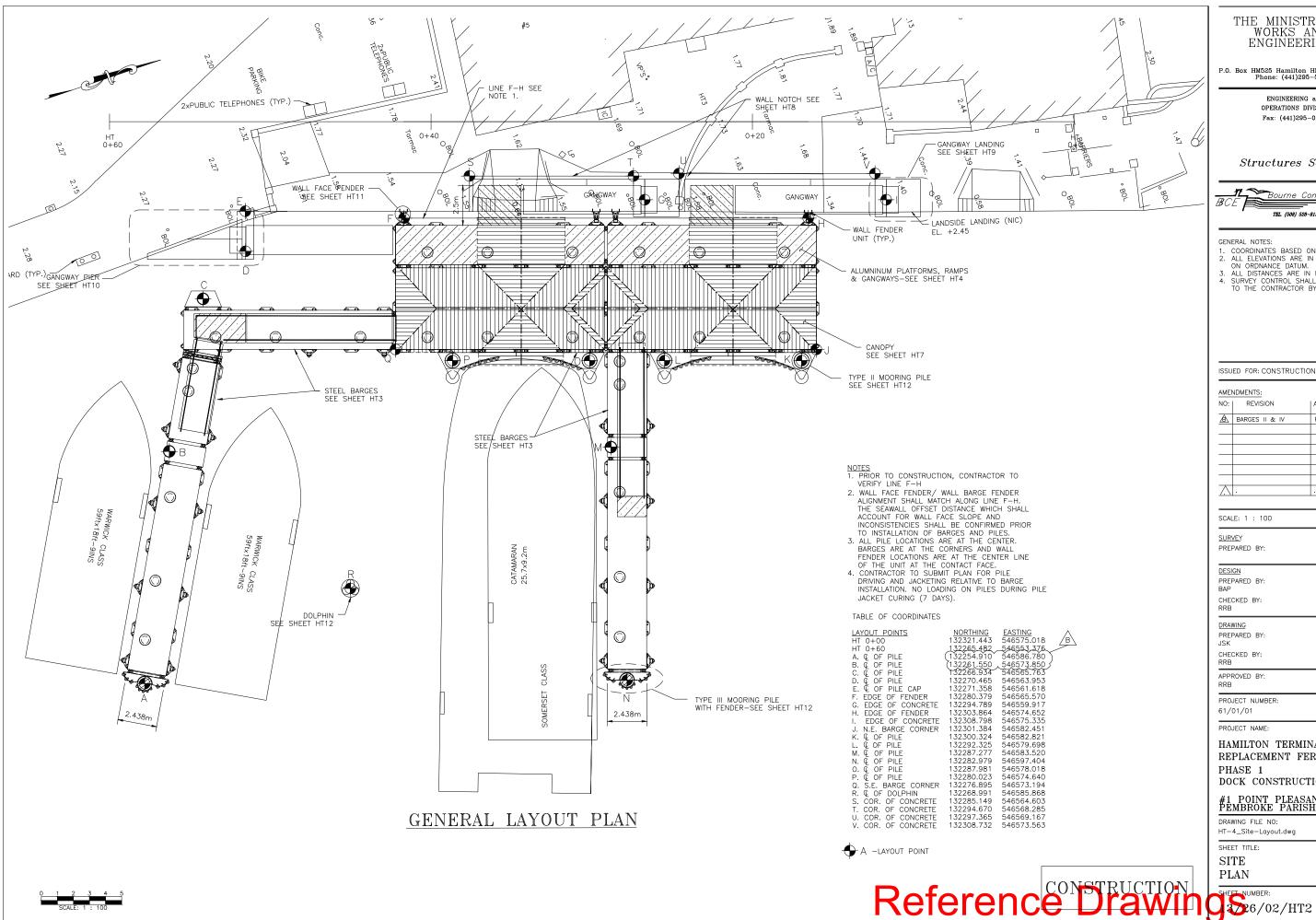
DRAWING FILE NO: ACAD R-1

SHEET TITLE:

STANDARD ALUMINUM GANGWAYS & RAMPS

SHEET NUMBER: F

REVISION



P.O. Box HM525 Hamilton HMCX Bermuda Phone: (441)295-5151

ENGINEERING and OPERATIONS DIVISION Fax: (441)295-0170

Structures Section



GENERAL NOTES:

- 1. COORDINATES BASED ON BNG 2000.
 2. ALL ELEVATIONS ARE IN METERS BASED ON ORDNANCE DATUM.
 3. ALL DISTANCES ARE IN METERS.
 4. SURVEY CONTROL SHALL BE PROVIDED TO THE CONTRACTOR BY THE OWNER.

ISSUED FOR: CONSTRUCTION 14/08/01

AMENDMENTS:		
NO:	REVISI	
Æ	BARGES II	

NO:	REVISION	APP	DATE:
A	BARGES II & IV	RRB	04/01/02
_			
_			
<u> </u>			•

SCALE: 1 : 100

SURVEY PREPARED BY:

DATE: DATE: 23/05/01 DATE: 23/05/01

CHECKED BY: DRAWING

PREPARED BY: BAP

DESIGN

PREPARED BY: DATE: 23/05/01 JSK DATE: 23/05/01 CHECKED BY:

APPROVED BY:

PROJECT NUMBER: 61/01/01

PROJECT NAME:

HAMILTON TERMINAL REPLACEMENT FERRY PROJECT PHASE 1 DOCK CONSTRUCTION

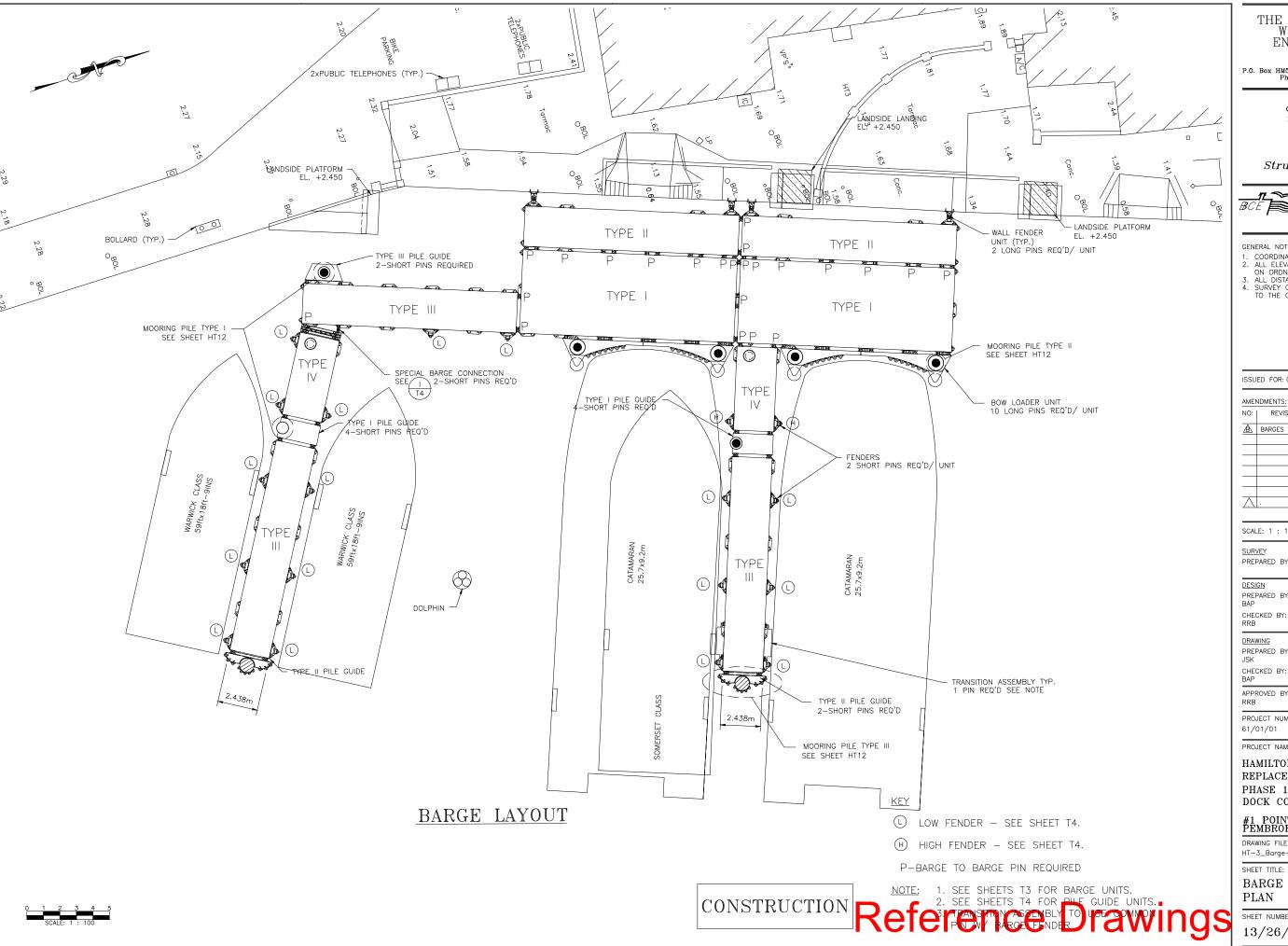
#1 POINT PLEASANT ROAD PEMBROKE PARISH

DRAWING FILE NO: HT-4_Site-Layout.dwg ACAD R-14

SHEET TITLE:

SITE PLAN

REVISION B



P.O. Box HM525 Hamilton HMCX Bermuda Phone: (441)295-5151

ENGINEERING and OPERATIONS DIVISION Fax: (441)295-0170

Structures Section



GENERAL NOTES:

- 1. COORDINATES BASED ON BNG 2000.
 2. ALL ELEVATIONS ARE IN METERS BASED ON ORDNANCE DATUM.
 3. ALL DISTANCES ARE IN METERS.
 4. SURVEY CONTROL SHALL BE PROVIDED TO THE CONTRACTOR BY THE OWNER.

ISSUED FOR: CONSTRUCTION 14/08/01

AMENDMENTS:

NO:	REVISION	APP	DATE:
A	BARGES II & IV	RRB	04/01/02
_			
—		_	
—			
_			
Z. \	l.	1.	

SURVEY PREPARED BY:	DATE:
DESIGN PREPARED BY: BAP	DATE: 23/05/
CHECKED BY:	DATE:

23/05/01 DRAWING DATE: 23/05/01 PREPARED BY

APPROVED BY:

PROJECT NUMBER: 61/01/01

PROJECT NAME:

HAMILTON TERMINAL REPLACEMENT FERRY PROJEC PHASE 1

DOCK CONSTRUCTION

#1 POINT PLEASANT ROAD PEMBROKE PARISH

DRAWING FILE NO: ACAD R-14 HT-3_Barge-assembly.dwg

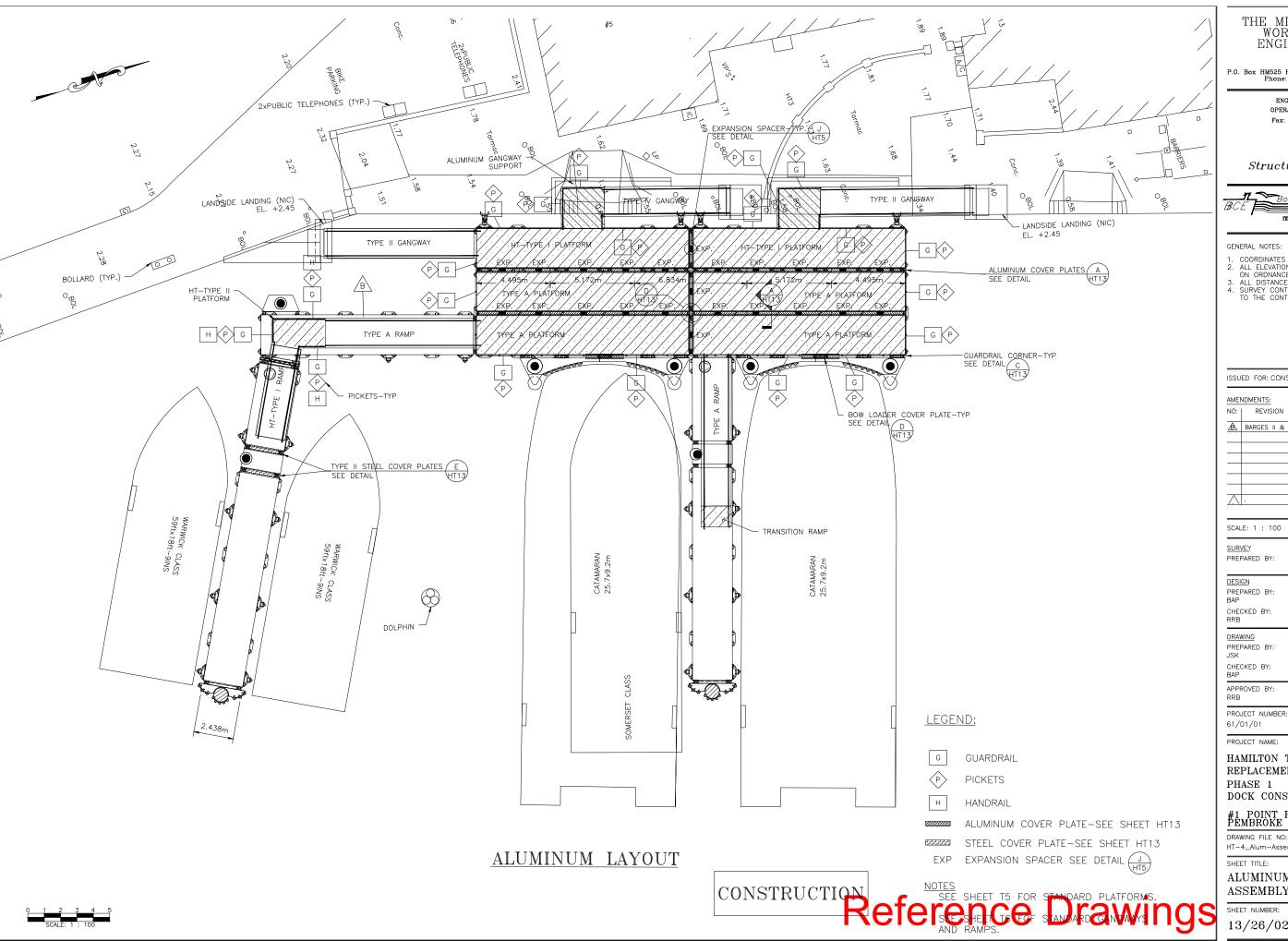
SHEET TITLE:

BARGE ASSEMBLY PLAN

SHEET NUMBER: 13/26/02/HT3



DATE: 23/05/01



P.O. Box HM525 Hamilton HMCX Bermuda Phone: (441)295-5151

ENGINEERING and OPERATIONS DIVISION Fax: (441)295-0170

Structures Section



GENERAL NOTES:

- COORDINATES BASED ON BNG 2000.
 ALL ELEVATIONS ARE IN METERS BASED ON ORDNANCE DATUM.
 ALL DISTANCES ARE IN METERS.
 SURVEY CONTROL SHALL BE PROVIDED TO THE CONTRACTOR BY THE OWNER.

ISSUED FOR: CONSTRUCTION 14/08/01

AME	NDMENTS:		
NO:	REVISION	APP	[
Æ	BARGES II & IV	RRB	04

SCALE: 1 : 100

SURVEY PREPARED BY: DATE:

DESIGN PREPARED BY: BAP DATE: 23/05/01 CHECKED BY: RRB DATE: 23/05/01

<u>DRAWING</u> DATE: 23/05/01 PREPARED BY:

APPROVED BY:

61/01/01

PROJECT NAME:

HAMILTON TERMINAL REPLACEMENT FERRY PROJEC PHASE 1 DOCK CONSTRUCTION

#1 POINT PLEASANT ROAD PEMBROKE PARISH

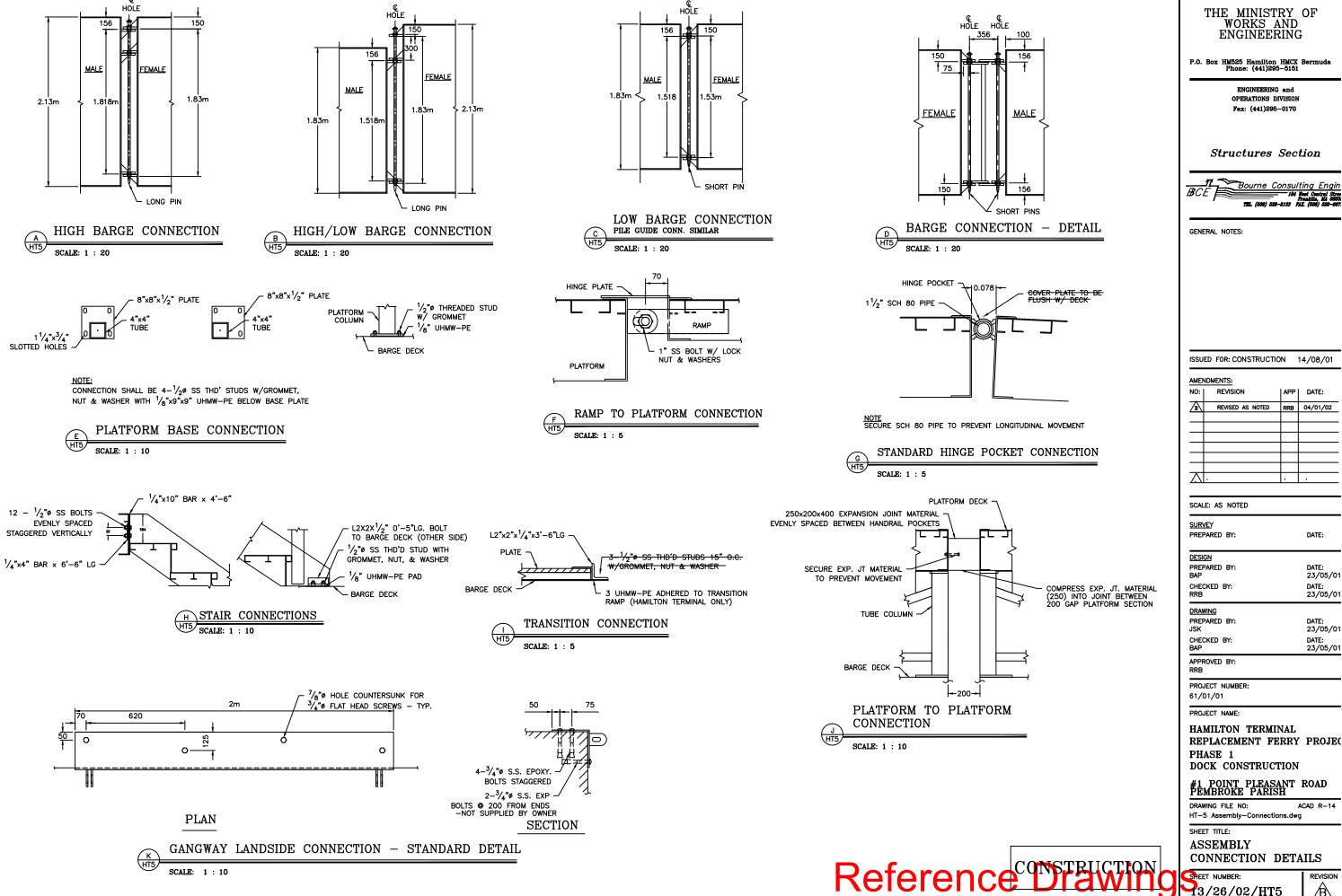
DRAWING FILE NO: HT-4_Alum-Assembvly.dwg

SHEET TITLE:

ALUMINUM ASSEMBLY PLAN

SHEET NUMBER: 13/26/02/HT4

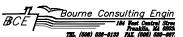




P.O. Box HM525 Hamilton HMCX Ber Phone: (441)295-5151

ENGINEERING and OPERATIONS DIVISION Fax: (441)295-0170

Structures Section



GENERAL NOTES:

SSUE	FOR: CONSTRUCTI	ON	14/08/01
MEND	MENTS:		
10:	REVISION	APP	DATE:
B	REVISED AS NOTED	RRB	04/01/02
+			
. .			
/. <u>/</u> 1.		1.	•
SCALE:	AS NOTED		
ORVE	Y RED BY:		DATE:
DESIGN	<u> </u>		
PREPA BAP	RED BY:		DATE: 23/05/01
CHECK RRB	ED BY:		DATE: 23/05/01
RAWII			
PREPA ISK	RED BY:		DATE: 23/05/01
CHECK BAP	ED BY:		DATE: 23/05/0
APPRO	VED BY:		
RRB	VED BY: CT NUMBER:		

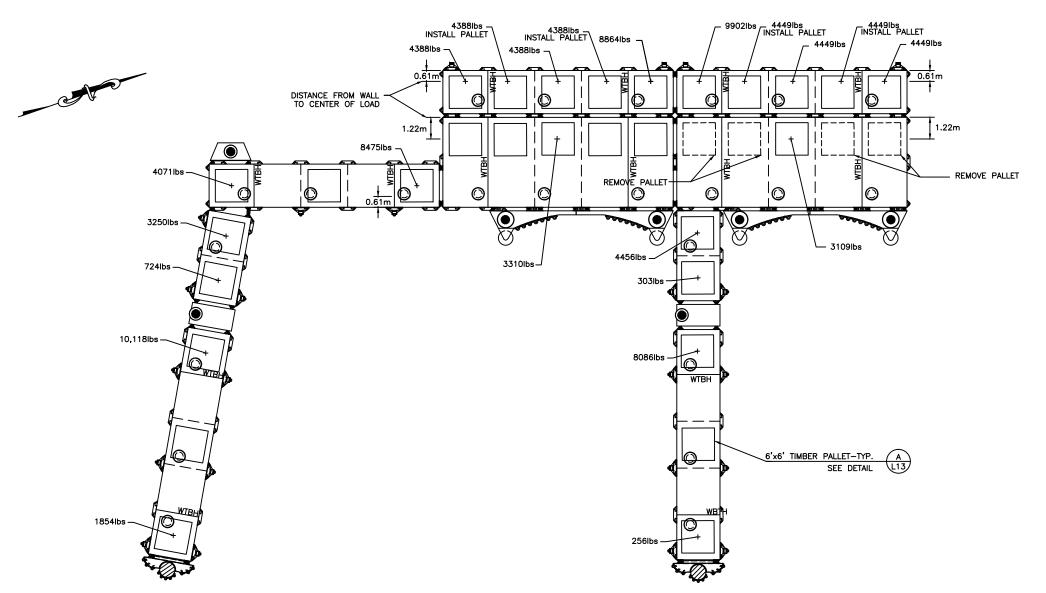
#1 POINT PLEASANT ROAD PEMBROKE PARISH

DRAWING FILE NO: HT-5 Assembly-Connections.dwg

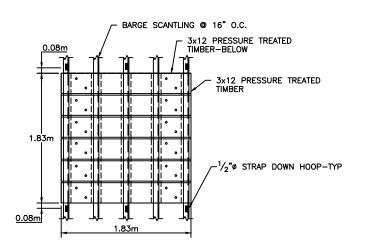
ASSEMBLY CONNECTION DETAILS

SHEET NUMBER:

REVISION B **1**3/26/02/HT5



HAMILTON TERMINAL



CONSTRUCTION

BALLAST PALLET-PLAN

A HD6 SCALE: 1: 25

NOTES:

1. BALLAST LOADS ARE SHOWN AT CENTER OF BAY UNLESS NOTED OTHERWISE.

2. BALLAST TO BE REMOVABLE CONCRETE

References at the property with Barress.

THE MINISTRY OF WORKS AND ENGINEERING

P.O. Box HM525 Hamilton HMCX Bermu-Phone: (441)295-5151

> ENGINEERING and OPERATIONS DIVISION Fax: (441)295-0170

Structures Section



GENERAL NOTES:

ISSUED FOR: CONSTRUCTION	14/08/01
--------------------------	----------

AMENDMENTS:

	NO:	REVISION	APP	DATE:
	\mathbb{Z}	HOOP ORIENTATION	RRB	04/01/02
	Zc\	BALLAST LAYOUT	RRB	11/01/02
	Δ		١.	
- 1				

SCALE: 1 : 100

SURVEY PREPARED BY:	DATE: 23/05/
DESIGN	
PREPARED BY: BAP	DATE: 23/05/
CHECKED BY: RRB	DATE: 23/05/
DRAWING	
PREPARED BY: JSK	DATE: 23/05/
CHECKED BY: BAP	DATE: 23/05/
APPROVED BY:	

APPROVED E RRB

PROJECT NUMBER: 61/01/01

PROJECT NAME:

HAMILTON TERMINAL
REPLACEMENT FERRY PROJEC
PHASE 1

DOCK CONSTRUCTION

#1 POINT PLEASANT ROAD PEMBROKE PARISH

DRAWING FILE NO: HT-6_Ballasting_Plan

SHEET TITLE:

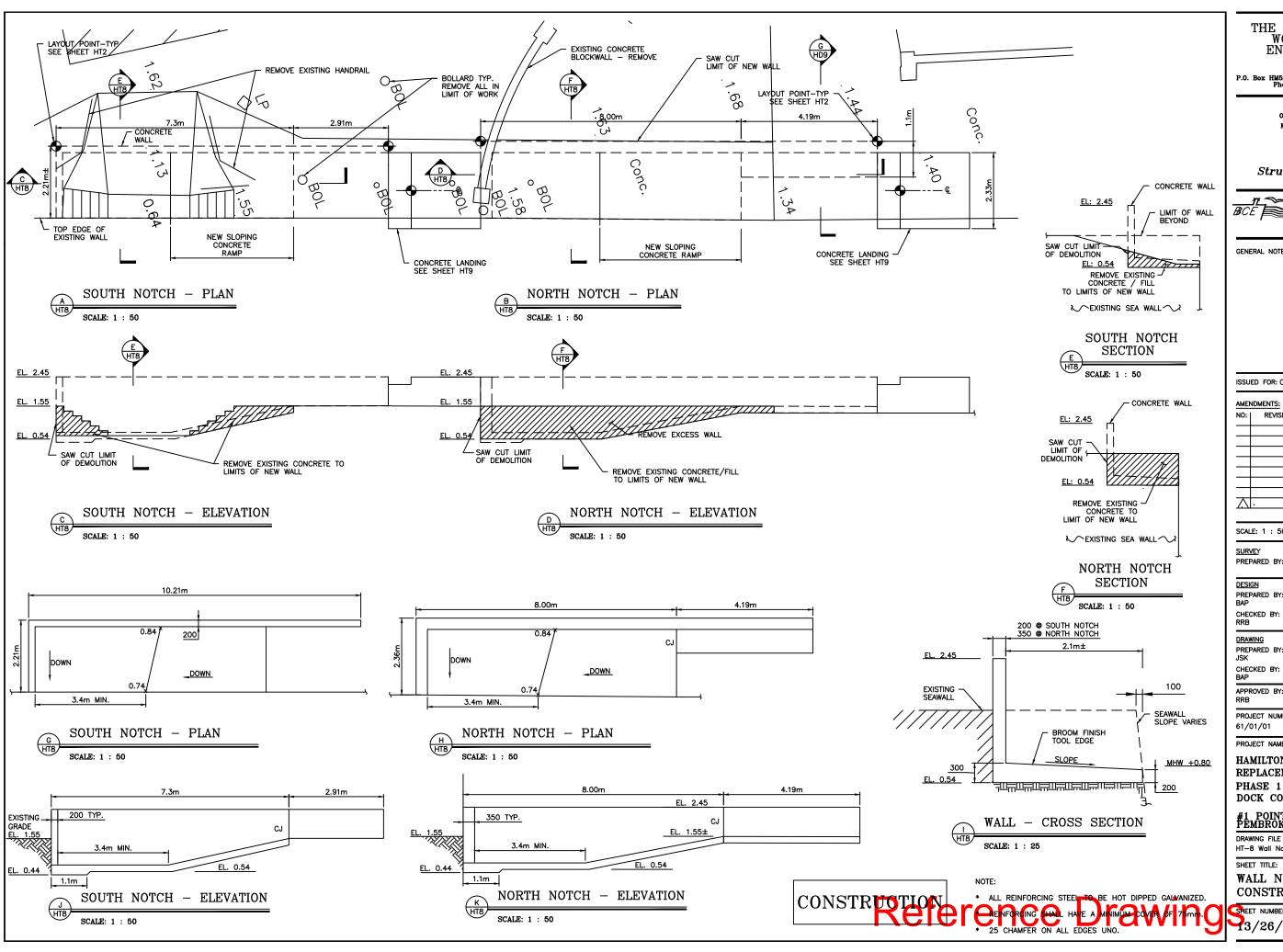
BALLASTING PLAN

Sheet NUMBER: 3/26/02/HT6



ACAD R-14





P.O. Box HM525 Hamilton HMCX Bermude Phone: (441)295-5151

ENGINEERING and OPERATIONS DIVISION Fax: (441)295-0170

Structures Section



GENERAL NOTES:

	DMENTS:	LADD	l DATE
NO:	REVISION	APP	DATE
_			
_			
+			
-+			
+		_	<u> </u>
$-\!$			

SCALE: 1 : 50

SURVEY PREPARED BY: DATE: DESIGN PREPARED BY: DATE: 23/05/01

CHECKED BY: DATE: 23/05/01 DRAWING DATE: 23/05/01 PREPARED BY CHECKED BY: DATE: 23/05/01

APPROVED BY:

PROJECT NUMBER: 61/01/01

PROJECT NAME:

HAMILTON TERMINAL REPLACEMENT FERRY PROJEC

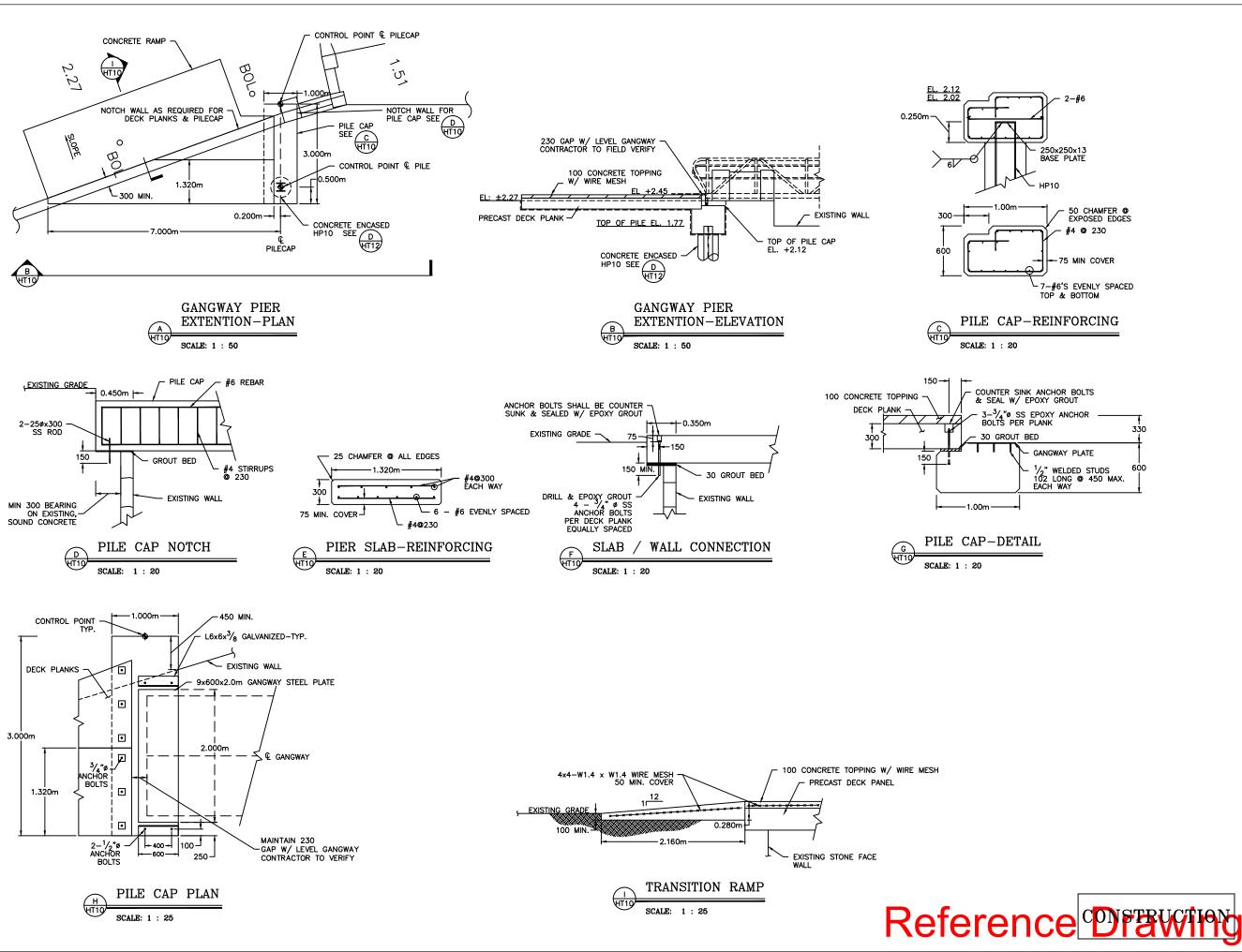
DOCK CONSTRUCTION

#1 POINT PLEASANT ROAD PEMBROKE PARISH

DRAWING FILE NO: HT-8 Wall Notch.dwg

WALL NOTCH CONSTRUCTION

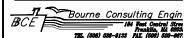
SHEET NUMBER: **1**3/26/02/HT8 REVISION



P.O. Box HM525 Hamilton HMCX Bermuc Phone: (441)295-5151

> ENGINEERING and OPERATIONS DIVISION Fax: (441)295-0170

Structures Section



GENERAL NOTES:

AMEN	DMENTS:		
NO:	REVISION	APP	DATE
\equiv			
\dashv			
+			
+			
\Box			
ΔĿ		<u> </u>	•
SCALE	: AS NOTED		

 DESIGN

 PREPARED BY:
 DATE:

 BAP
 23/05/01

 CHECKED BY:
 DATE:

 RRB
 23/05/01

 DRAWING
 DATE:

 PREPARED BY:
 DATE:

 RFG
 23/05/01

 CHECKED BY:
 DATE:

 RRB
 23/05/C

 APPROVED BY:
 BPR

PROJECT NUMBER:

61/01/01

PROJECT NAME:

HAMILTON TERMINAL REPLACEMENT FERRY PROJEC PHASE 1

DOCK CONSTRUCTION

#1 POINT PLEASANT ROAD PEMBROKE PARISH

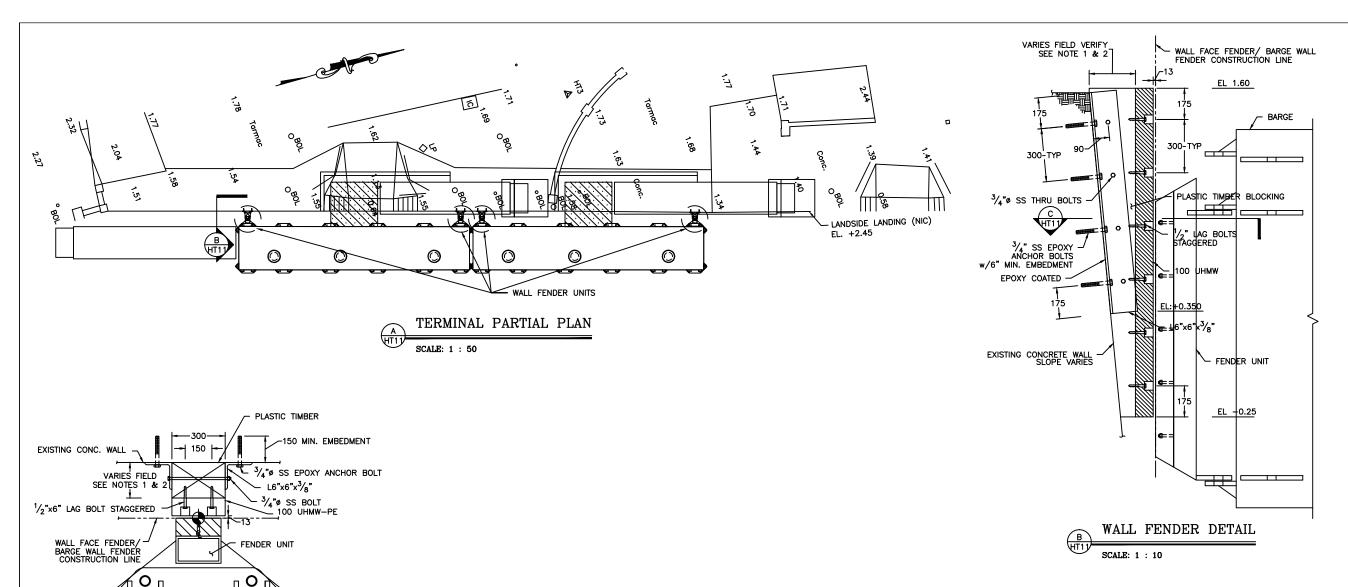
DRAWING FILE NO: ACA HT-10_Gandway_Pier_Ext.dwg

SHEET TITLE:

GANGWAY PIER EXTENTION

SHEET NUMBER: 3/26/02/HT10

REVISION



P.O. Box HM525 Hamilton HMCX Bermuda Phone: (441)295-5151

ENGINEERING and OPERATIONS DIVISION Fax: (441)295-0170

Structures Section



GENERAL NOTES:

ISSUED FOR: CONSTRUCTION 14/08/01

NO:	REVISION	APP	DATE:
\Box			
+		-	
+			
\dashv			
M			

SCALE: AS NOTED

SURVEY PREPARED BY:	DATE:
DESIGN	
PREPARED BY: BAP	DATE: 23/05/0
CHECKED BY: RRB	DATE: 23/05/0
DRAWING	
PREPARED BY: JSK	DATE: 23/05/0
CHECKED BY: BAP	DATE: 23/05/0
APPROVED BY:	

RRB PROJECT NUMBER:

61/01/01

PROJECT NAME:

HAMILTON TERMINAL REPLACEMENT FERRY PROJEC

PHASE 1 DOCK CONSTRUCTION

#1 POINT PLEASANT ROAD PEMBROKE PARISH

ACAD R-14

REVISION

DRAWING FILE NO:

HT-11_Wall-Fender.dwg

SHEET TITLE: WALL FENDER

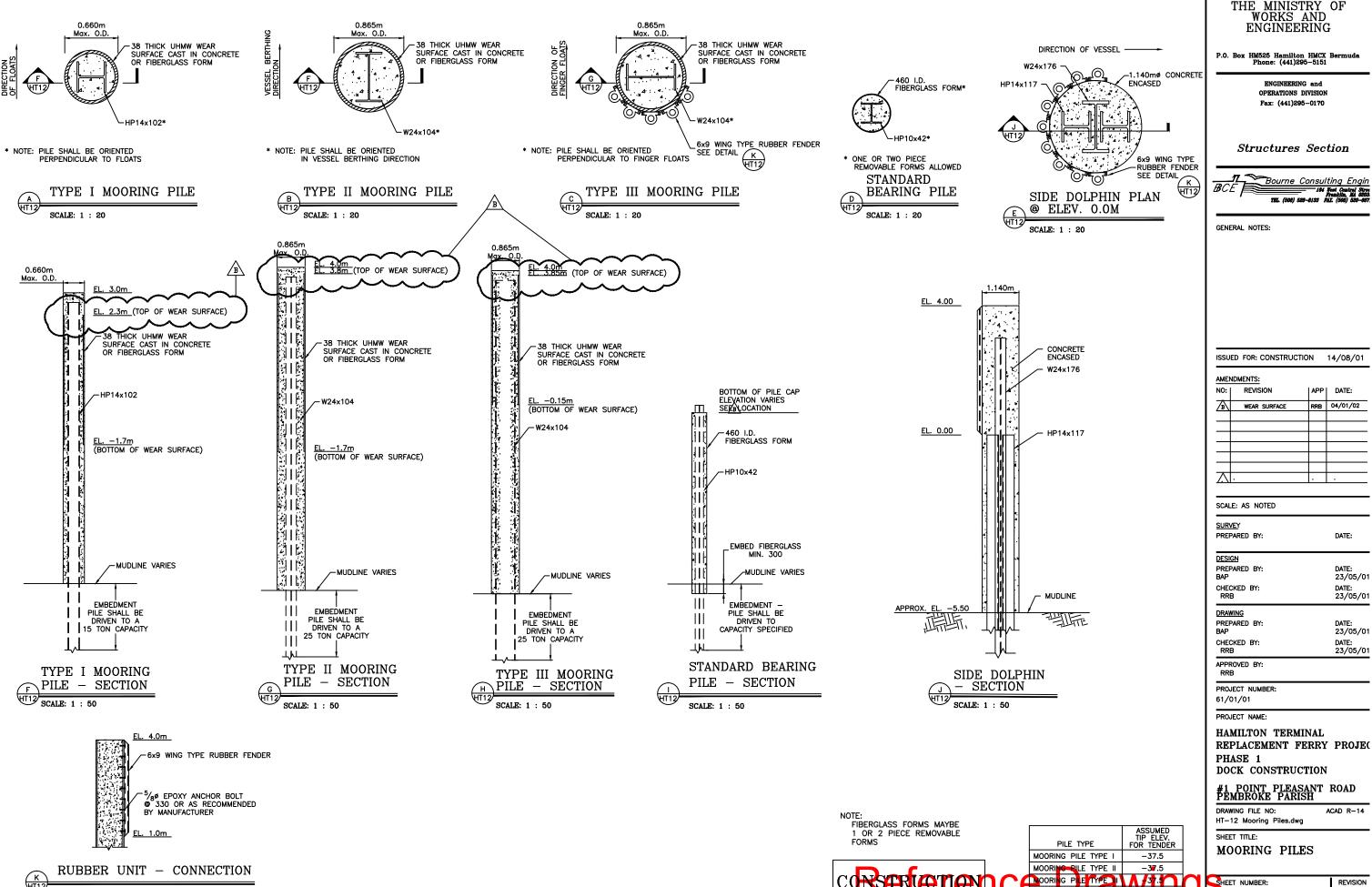
SHEET NUMBER: 13/26/02/HT11

Reference Prawing

NOTES
1. PLASTIC TIMBER SHALL HAVE MINIMUM THICKNESS OF 100mm @ EL:+0.35.
2. CONTRACTOR TO FIELD VERIFY SEAWALL SLOPE AND FINAL WALL FACE FENDER/ BARGE WALL FENDER CONSTRUCTION LINE.

WALL FENDER PLAN

SCALE: 1 : 10



SCALE: 1 : 50

THE MINISTRY OF WORKS AND ENGINEERING

P.O. Box HM525 Hamilton HMCX Bermuda Phone: (441)295-5151

ENGINEERING and OPERATIONS DIVISION Fax: (441)295-0170

Structures Section



GENERAL NOTES:

SCALE: AS NOTED SURVEY PREPARED BY: DATE: DESIGN PREPARED BY: BAP 23/05 CHECKED BY: RRB 23/05 DRAWING PREPARED BY: BAP 23/05 CHECKED BY: DATE: 23/05 DRAWING CHECKED BY: DATE: DAT	AMEND	DMENTS:		
SCALE: AS NOTED SURVEY PREPARED BY: DATE: DESIGN PREPARED BY: BAP 23/05 CHECKED BY: RRB 23/05 DRAWING PREPARED BY: BAP 23/05 APPROVED BY: RRB 23/05 APPROVED BY: RRB PROJECT NUMBER:	NO:	REVISION	APP	DATE:
SCALE: AS NOTED SURVEY PREPARED BY: DATE: DESIGN PREPARED BY: BAP 23/05 CHECKED BY: RRB 23/05 DRAWING PREPARED BY: BAP 23/05 CHECKED BY: RRB 23/05 APPROVED BY: RRB PROJECT NUMBER:	A	WEAR SURFACE	RRB	04/01/0
SCALE: AS NOTED SURVEY PREPARED BY: DATE: DESIGN PREPARED BY: BAP 23/05 CHECKED BY: RRB 23/05 DRAWING PREPARED BY: BAP 23/05 APPROVED BY: RRB PROJECT NUMBER:	7			
SCALE: AS NOTED SURVEY PREPARED BY: DATE: DESIGN PREPARED BY: BAP 23/05 CHECKED BY: RRB 23/05 DRAWING PREPARED BY: BAP 23/05 CHECKED BY: RRB 23/05 APPROVED BY: RRB PROJECT NUMBER:	7			
SCALE: AS NOTED SURVEY PREPARED BY: DATE: DESIGN PREPARED BY: BAP 23/05 CHECKED BY: RRB 23/05 DRAWING PREPARED BY: BAP 23/05 CHECKED BY: RRB 23/05 APPROVED BY: RRB PROJECT NUMBER:	,		1.	
SURVEY				
DESIGN DATE: PREPARED BY: DATE: BAP 23/05 CHECKED BY: DATE: RRB 23/05 DRAWING PREPARED BY: DATE: BAP 23/05 CHECKED BY: DATE: RRB 23/05 APPROVED BY: RRB PROJECT NUMBER:	SCALE	: AS NOTED		
PREPARED BY: DATE: BAP 23/05 CHECKED BY: DATE: RRB 23/05 DRAWING PREPARED BY: DATE: BAP 23/05 CHECKED BY: DATE: RRB 23/05 APPROVED BY: RRB PROJECT NUMBER:		=		DATE:
RRB 23/05 DRAWING PREPARED BY: PREPARED BY: DATE: BAP 23/05 CHECKED BY: DATE: RRB 23/05 APPROVED BY: RRB PROJECT NUMBER: PROJECT NUMBER:		VI		
PREPARED BY: DATE: BAP 23/05 CHECKED BY: DATE: RRB 23/05 APPROVED BY: RRB PROJECT NUMBER: NUMBER:	PREPA	=		
CHECKED BY: DATE: RRB 23/05 APPROVED BY: RRB PROJECT NUMBER:	PREPA BAP CHECK	ARED BY:		23/05
PROJECT NUMBER:	PREPA BAP CHECK RRB DRAWII	RED BY: KED BY:		23/05 DATE: 23/05 DATE:
	PREPA BAP CHECK RRB DRAWII PREPA BAP CHECK	RED BY: KED BY: NG NG RED BY:		23/05 DATE: 23/05 DATE: 23/05
	PREPA BAP CHECK RRB DRAWII PREPA BAP CHECK RRB	RED BY: NG RED BY:		23/05 DATE: 23/05 DATE: 23/05 DATE:

#1 POINT PLEASANT ROAD PEMBROKE PARISH

ACAD R-14

B

DRAWING FILE NO: HT-12 Mooring Piles.dwg

SHEET TITLE:

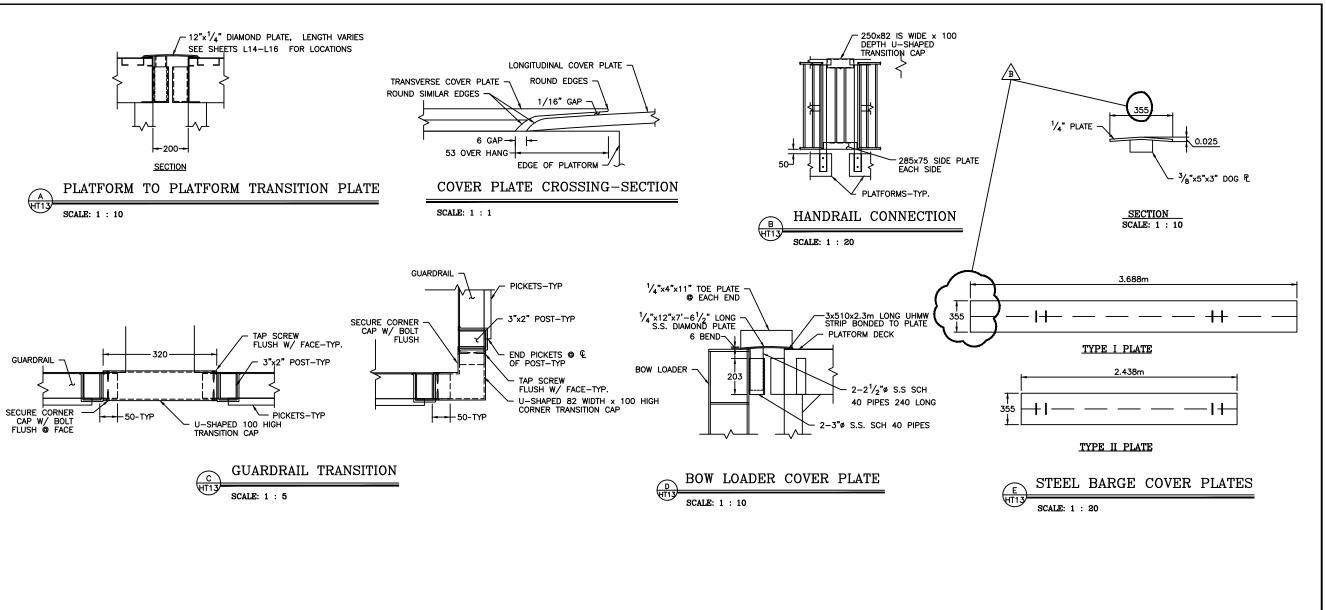
-37.5

STD. BEARIN

DOLPHIN

MOORING PILES

SHEET NUMBER: REVISION 13/26/02/HT12



P.O. Box HM525 Hamilton HMCX Bermude Phone: (441)295-5151

> ENGINEERING and OPERATIONS DIVISION Fax: (441)295-0170

Structures Section



GENERAL NOTES:

AMEN	NDMENTS:		
NO:	REVISION	APP	DATE:
A	TYPE I PLATE	RRB	04/01/02
\Box			
-		_	
-		_	
\forall		_	
<i>L</i> . V	•		•

PREPARED BY:

DESIGN
PREPARED BY:
BAP

CHECKED BY:
RRB

DATE:
23/05/01

DRAWING
PREPARED BY:
JSK

DATE:
23/05/01

DRAWING
PREPARED BY:
DATE:
23/05/01

APPROVED BY:
RRB

PROJECT NUMBER:

PROJECT NUMBE 61/01/01

PROJECT NAME:

HAMILTON TERMINAL

REPLACEMENT FERRY PROJECT PHASE 1

DOCK CONSTRUCTION
#1 POINT PLEASANT ROAD
PEMBROKE PARISH

DRAWING FILE NO: ACAD R-14 HT-13 Misc. Details.dwg

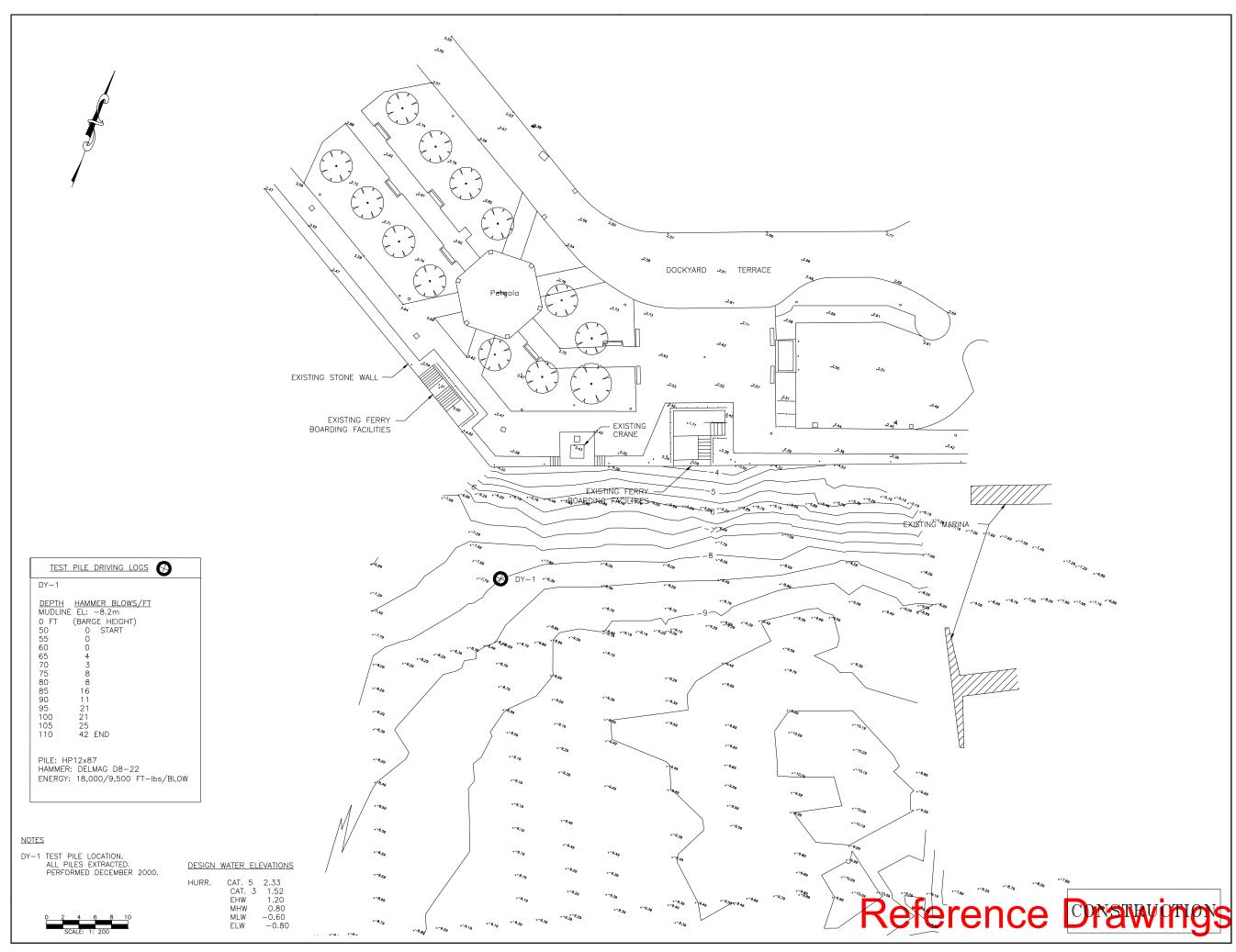
REVISION

B

SHEET TITLE:
MISC.
DETAILS

SAEET NUMBER: 3/26/02/HT13

Reference Drawing



P.O. Box HM525 Hamilton HMCX Bermuda Phone: (441)295-5151

ENGINEERING and OPERATIONS DIVISION Fax: (441)295-0170

Structures Section



GENERAL NOTES:

- COORDINATES BASED ON BNG 2000.
 ALL ELEVATIONS ARE IN METERS BASED ON ORDNANCE DATUM.
 ALL DISTANCES ARE IN METERS.
- 4. SURVEY CONTROL SHALL BE PROVIDED TO THE CONTRACTOR BY THE OWNER.

ISSUED FOR: CONSTRUCTION 14/08/01

AMEN	MENTS:		
NO:	REVISION	APP	DATE:
-			
-			
-			
_			
Λ .		١.	

SCALE: 1 : 200

SURVEY PREPARED BY:	DATE:
DESIGN	
PREPARED BY:	DATE:
BAP	23/05/01
CHECKED BY:	DATE:
RRB	23/05/01
DRAWING	
PREPARED BY:	DATE:
JSK	23/05/01
CHECKED BY:	DATE:
BAP	23/05/01

APPROVED BY:

PROJECT NUMBER: 61/01/01

PROJECT NAME:

DOCKYARD

REPLACEMENT FERRY PROJEC PHASE 1

DOCK CONSTRUCTION

DOCKYARD TERRACE SANDYS PARISH

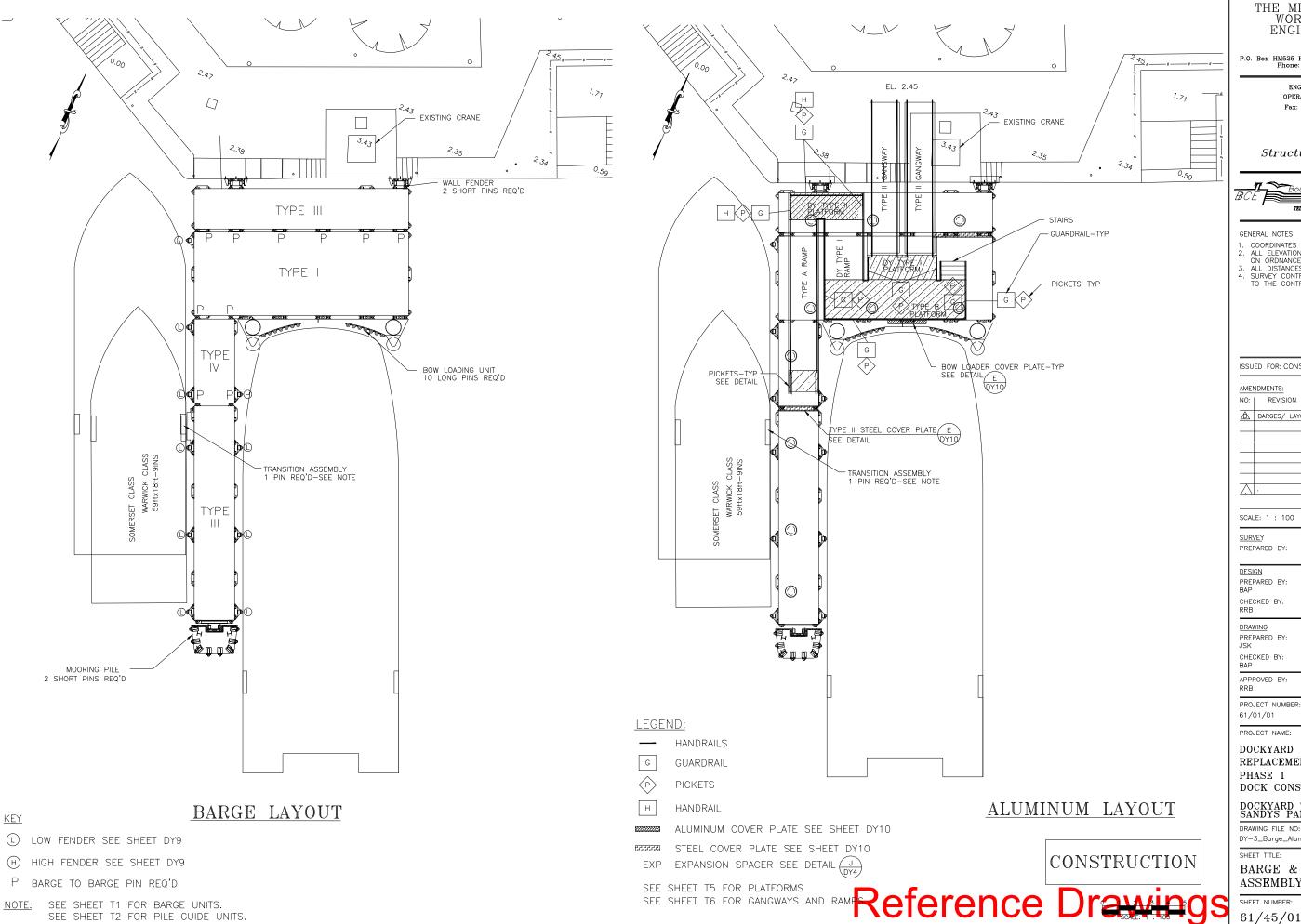
DRAWING FILE NO: ACAD R-14 DY-01_Exist Cond.dwg

SHEET TITLE:

EXISTING CONDITIONS

SHEET NUMBER: 61/45/01/DY1





P.O. Box HM525 Hamilton HMCX Bermuda Phone: (441)295-5151

ENGINEERING and OPERATIONS DIVISION Fax: (441)295-0170

Structures Section



GENERAL NOTES:

- 1. COORDINATES BASED ON BNG 2000.
 2. ALL ELEVATIONS ARE IN METERS BASED ON ORDNANCE DATUM.
 3. ALL DISTANCES ARE IN METERS.
 4. SURVEY CONTROL SHALL BE PROVIDED TO THE CONTRACTOR BY THE OWNER.

ISSUED FOR: CONSTRUCTION 14/08/01

AMENDMENTS:

NO:	REVISION	APP	DATE:
Æ	BARGES/ LAYOUTS	RRB	04/01/02
l			
l			
l			
ı			

SCALE: 1 : 100

SURVEY PREPARED BY DATE:

DESIGN PREPARED BY: BAP DATE: 23/05/01 CHECKED BY: DATE: 23/05/01

<u>DRAWING</u> PREPARED BY DATE: 23/05/01 CHECKED BY: BAP

APPROVED BY:

PROJECT NAME:

DOCKYARD REPLACEMENT FERRY PROJEC PHASE 1

DOCK CONSTRUCTION

DOCKYARD TERRACE SANDYS PARISH

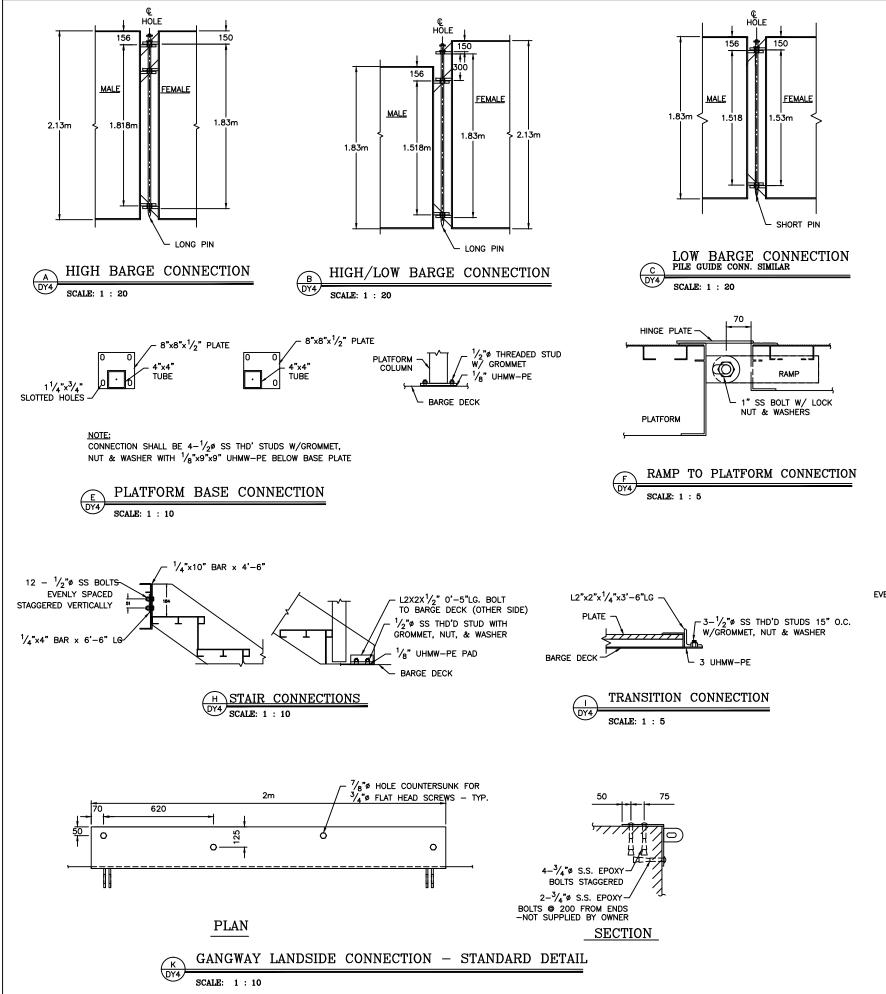
DRAWING FILE NO: ACAD R-14 DY-3_Barge_Alum_Assembly.dwg

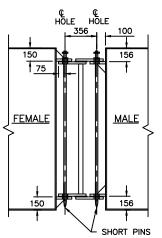
SHEET TITLE:

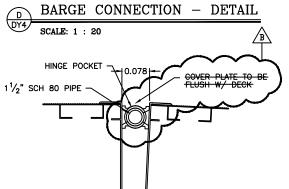
BARGE & ALUMINUM ASSEMBLY PLAN

SHEET NUMBER: 61/45/01/DY3

REVISION B

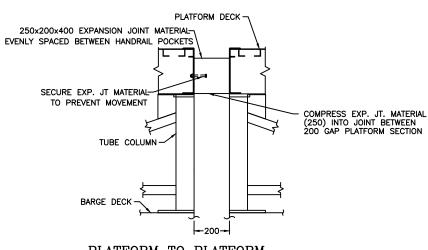


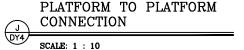




 $rac{ ext{NOTE}}{ ext{SECURE}}$ Sch 80 pipe to prevent longitudinal movement







Reference Drawing

THE MINISTRY OF WORKS AND ENGINEERING

P.O. Box HM525 Hamilton HMCX Bermuda Phone: (441)295-5151

> ENGINEERING and OPERATIONS DIVISION Fax: (441)295-0170

Structures Section



GENERAL NOTES:

ISSU	ISSUED FOR: CONSTRUCTION 14					
AMEN	IDMENTS:					
NO:	REVISION	APP	DATE:			
B	COVER PLATE	RRB	04/01/02			
$\overline{\Lambda}$						

SCALE: AS NOTED	
SURVEY PREPARED BY:	DATE:
DESIGN PREPARED BY: BAP	DATE: 23/05/
CHECKED BY: RRB	DATE: 23/05/
DRAWING PREPARED BY: JSK	DATE: 23/05/
CHECKED BY: BAP	DATE: 23/05/
APPROVED BY: RRB	
PROJECT NUMBER:	

PROJECT NUMBER

PROJECT NAME:

DOCKYARD
REPLACEMENT FERRY PROJECT PHASE 1

DOCK CONSTRUCTION

DOCKYARD TERRACE SANDYS PARISH

DRAWING FILE NO: ACAD R-1
DY-4 Assembly-Connections.dwg

SHEET TITLE:

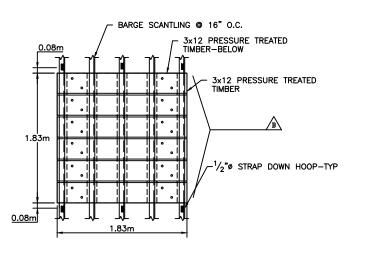
ASSEMBLY CONNECTIONS

SHEET NUMBER: 61/45/01/DY4



7835lbs 5995lbs DISTANCE FROM WALL TO-CENTROID OF LOAD TYP. 10450lbs -2900lbs 2900lbs -NO BALLAST 2683lbs - NO BALLAST 7675lbs -6'x6' TIMBER PALLET-TYP. A SEE DETAIL DY5 5315lbs ·

DOCKYARD



BALLAST PALLET-PLAN

SCALE: 1 : 25

NOTES:

- 1. BALLAST LOADS ARE SHOWN AT CENTER OF BAY UNLESS NOTED OTHERWISE.
- 2. BALLAST TO BE REMOVABLE CONCRETE BLOCK OR LEAD.
- 3. BALLAST SHALL BE INSTALLED ON TIMBER PALLETS AT LOCATIONS SHOWN. PALLET SUPPLIED W/ BARGES

THE MINISTRY OF WORKS AND ENGINEERING

P.O. Box HM525 Hamilton HMCX Bermuda Phone: (441)295-5151

ENGINEERING and OPERATIONS DIVISION Fax: (441)295-0170

Structures Section



GENERAL NOTES:

ISSUED FOR: CONSTRUCTION 14/08/01					
AMENDMENTS:					
NO:	REVISION	APP	DATE:		
Æ	HOOP ORIENTATION	RRB	04/01/02		
ß	BALLAST LAYOUT	RRB	11/02/02		
Δ	•				
SCALE: AS NOTED					

SCALE: AS NOTED	
SURVEY PREPARED BY:	DATE:
DESIGN PREPARED BY: BAP	DATE: 23/05/0
CHECKED BY: RRB	DATE: 23/05/0
DRAWING PREPARED BY: JSK	DATE: 23/05/0
CHECKED BY: BAP	DATE: 23/05/0
APPROVED BY: RRB	

PROJECT NUMBER: 61/01/01

PROJECT NAME:

DOCKYARD REPLACEMENT FERRY PROJEC

PHASE 1 DOCK CONSTRUCTION

DOCKYARD TERRACE SANDYS PARISH

DRAWING FILE NO:

ACAD R-14 DY-05_Ballasting Plan.dwg

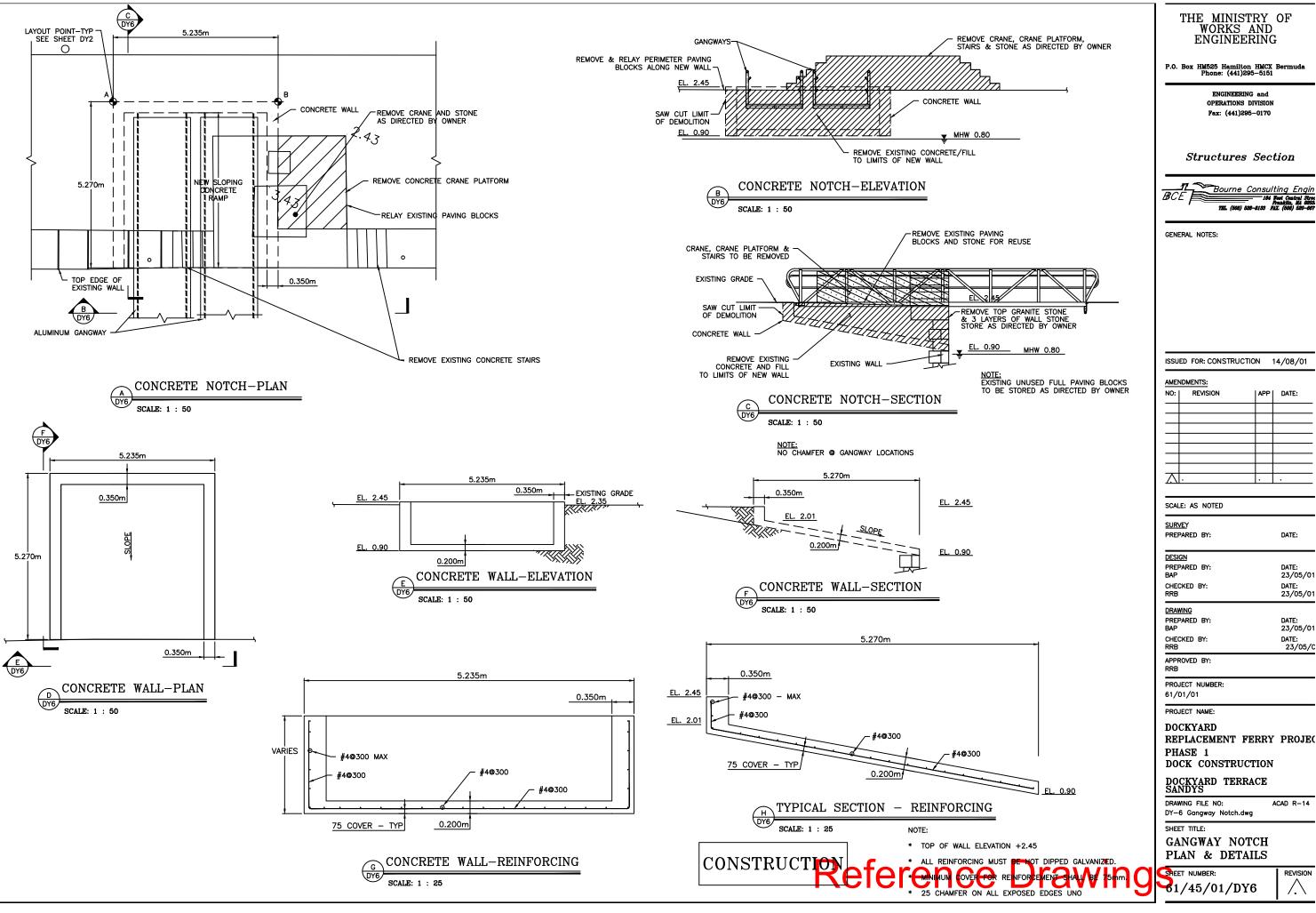
> REVISION æ

SHEET TITLE:

BALLASTING **PLAN**

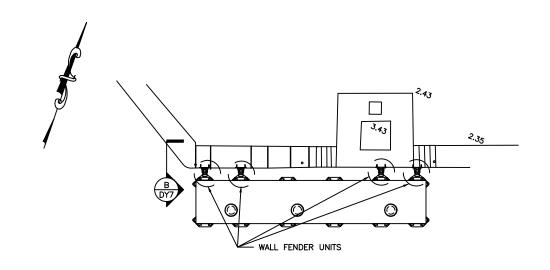
SHEET NUMBER: 01/45/01/DY5

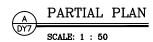


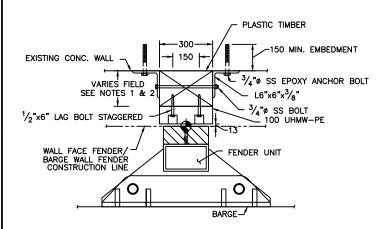


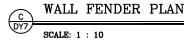


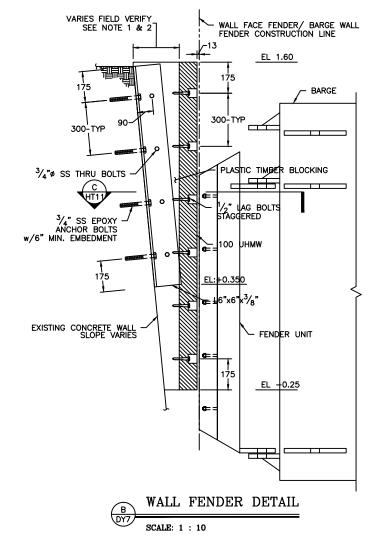
REPLACEMENT FERRY PROJEC











Reference Construction

THE MINISTRY OF WORKS AND ENGINEERING

P.O. Box HM525 Hamilton HMCX Bermude Phone: (441)295-5151

ENGINEERING and OPERATIONS DIVISION Fax: (441)295-0170

Structures Section



GENERAL NOTES:

AMENE	DMENTS:		
NO:	REVISION	APP	DATE:
_			
\dashv			
_			
		1.	_

SURVEY PREPARED BY: DATE: DESIGN PREPARED BY: BAP DATE: 23/05/01 CHECKED BY: DATE: 23/05/01 DRAWING DATE: 23/05/01 PREPARED BY: CHECKED BY: DATE: 23/05/01 APPROVED BY:

PROJECT NUMBER:

61/01/01

PROJECT NAME:

DOCKYARD REPLACEMENT FERRY PROJEC

PHASE 1

DOCK CONSTRUCTION

DOCKYARD TERRACE SANDYS PARISH

DRAWING FILE NO: DY-07_Wall-Fender.dwg ACAD R-14

REVISION

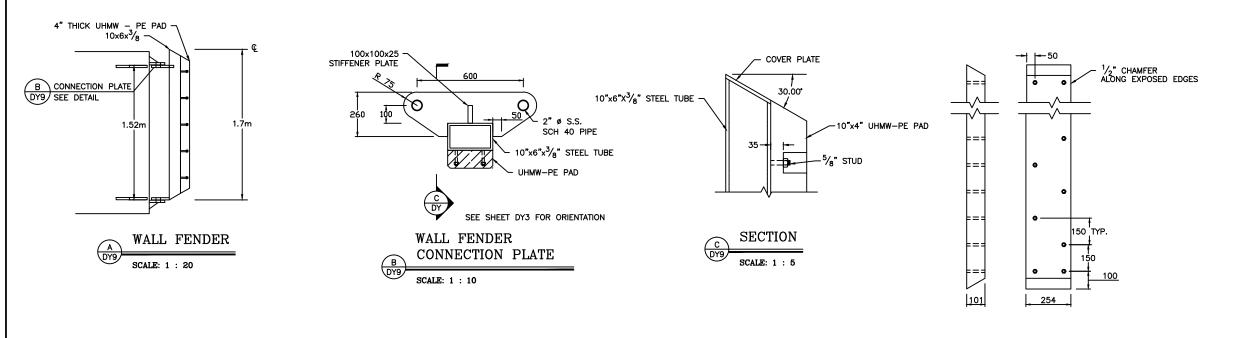
SHEET TITLE:

WALL **FENDER**

SHEET NUMBER: **√**1/45/01/DY7



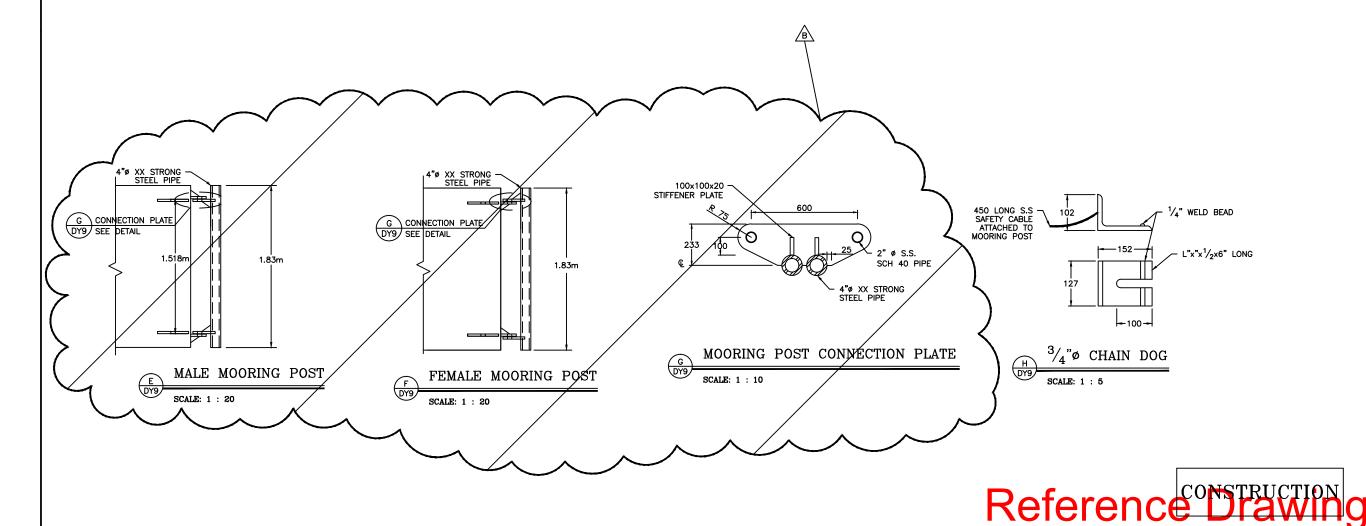
1. PLASTIC TIMBER SHALL HAVE MINIMUM THICKNESS OF 100mm © EL:+0.35.
2. CONTRACTOR TO FIELD VERIFY SEA WALL SLOPE AND FINAL WALL FACE FENDER/ BARGE WALL FENDER CONSTRUCTION LINE.



UHMW-PE ELEVATIONS

OD

SCALE: 1:10



THE MINISTRY OF WORKS AND ENGINEERING

P.O. Box HM525 Hamilton HMCX Bermude Phone: (441)295-5151

> ENGINEERING and OPERATIONS DIVISION Fax: (441)295-0170

Structures Section



ISSUED FOR: CONSTRUCTION 14/08/01

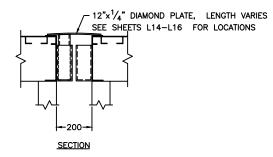
GENERAL NOTES:

_					
AME	NDMENTS:				
NO:	REVISION	APP	DATE:		
<u>Æ</u>	DELETE MRG. DETAILS	RRB	04/01/02		
_					
Δ.		١.	•		
SCA	LE: AS NOTED				
SUR	VEY				
PRE	PARED BY:		DATE:		
DES	GN				
PREI BAP	PARED BY:		DATE: 23/05/01		
	CKED BY:	DATE:			
RRB 23/05/01					
DRAWING PREPARED BY: DATE:					
JSK	23/05/01				
BAP	CKED BY:	DATE: 23/05/01			
APPROVED BY: RRB					
	JECT NUMBER:				
61/	01/01				
PRO	JECT NAME:				
	CKYARD				
	PLACEMENT FE	KKY	PROJEC		
PHASE 1 DOCK CONSTRUCTION					
DOCKYARD TERRACE SANDYS PARISH					
DRAWING FILE NO: ACAD R-14					
DY-	09Mooring Details				
	ET TITLE:				
FE	NDER				

DETAILS

SHEET NUMBER: 61/45/01/DY9

REVISION



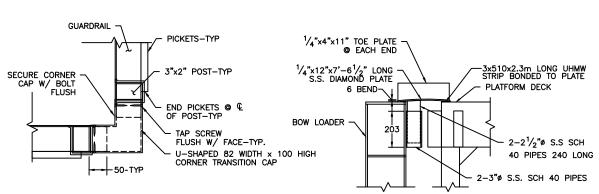
PLATFORM TO PLATFORM TRANSITION PLATE

SCALE: 1 : 10

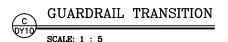
GUARDRAIL -

SECURE CORNER

CAP W/ BOLT FLUSH @ FACE



SCALE: 1 : 20



TAP SCREW FLUSH W/ FACE-TYP.

3"x2" POST-TYP

- PICKETS-TYP



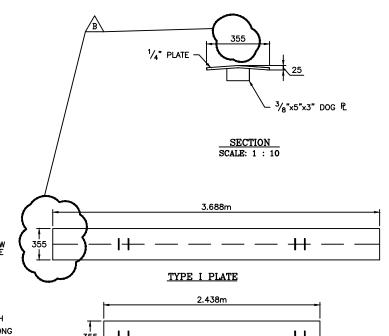
- 250x82 IS WIDE x 100 DEPTH U-SHAPED TRANSITION CAP

PLATFORMS-TYP.

HANDRAIL CONNECTION

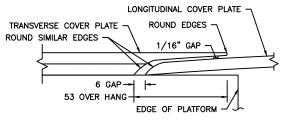
- 285x75 SIDE PLATE EACH SIDE





TYPE II PLATE





U-SHAPED 100 HIGH TRANSITION CAP

COVER PLATE CROSSING-SECTION SCALE: 1 : 1

Reference Drawing

THE MINISTRY OF WORKS AND ENGINEERING

P.O. Box HM525 Hamilton HMCX Bermuda Phone: (441)295-5151

ENGINEERING and OPERATIONS DIVISION Fax: (441)295-0170

Structures Section



GENERAL NOTES:

ISSUED FOR: CONSTRUCTION 14/08/01

AMENDMENTS: | APP | DATE: | RRB | 04/01/02

SCALE: AS NOTED SURVEY PREPARED BY: DATE: DESIGN PREPARED BY: DATE: 23/05/01 CHECKED BY: DATE: 23/05/01 DRAWING DATE: 23/05/01 PREPARED BY: CHECKED BY: DATE: 23/05/01

APPROVED BY:

PROJECT NUMBER: 61/01/01

PROJECT NAME:

DOCKYARD REPLACEMENT FERRY PROJEC

PHASE 1

DOCK CONSTRUCTION

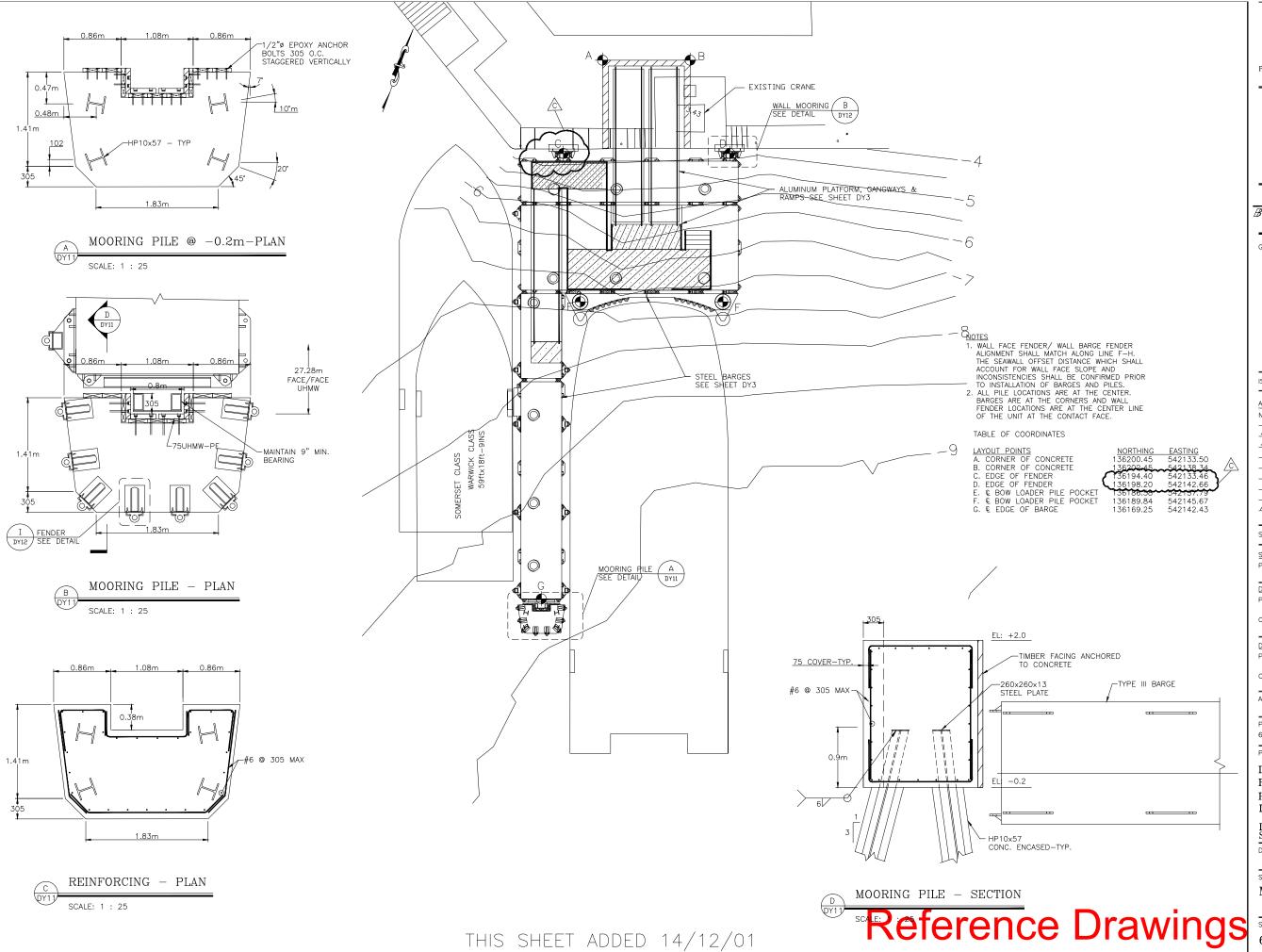
DOCKYARD TERRACE SANDYS PARISH

DRAWING FILE NO: ACAD R-14 DY-10 Misc. Details.dwg

SHEET TITLE:

MISC. **DETAILS**

SHEET NUMBER: 61/45/01/DY10 REVISION B



P.O. Box HM525 Hamilton HMCX Bermuda Phone: (441)295-5151

ENGINEERING and OPERATIONS DIVISION Fax: (441)295-0170

 $Structures \ Section$



GENERAL NOTES:

ISSUED FOR: CONSTRUCTION 28/11/01

AMENDMENTS:

NO:	REVISION	APP	DATE:	
A	SHEET ADDED	RRB	04/01/02	
Δ	COORDINATES REVISED	DGF	22/02/02	
Λ				

SCALE: AS NOTED

SURVEY PREPARED BY:	DATE:
DESIGN	
PREPARED BY:	DATE:
BAP	26/11/0
CHECKED BY:	DATE:
RRB	28/11/0
DRAWING	
PREPARED BY:	DATE:
BAP	26/11/0
CHECKED BY:	DATE:
RRB	28/11/0

APPROVED BY:

PROJECT NUMBER: 61/01/01

PROJECT NAME:

DOCKYARD REPLACEMENT FERRY PROJEC

PHASE 1 DOCK CONSTRUCTION

DOCKYARD TERRACE SANDYS PARISH

ACAD R-14 DRAWING FILE NO: 21378/DY-11.dwg

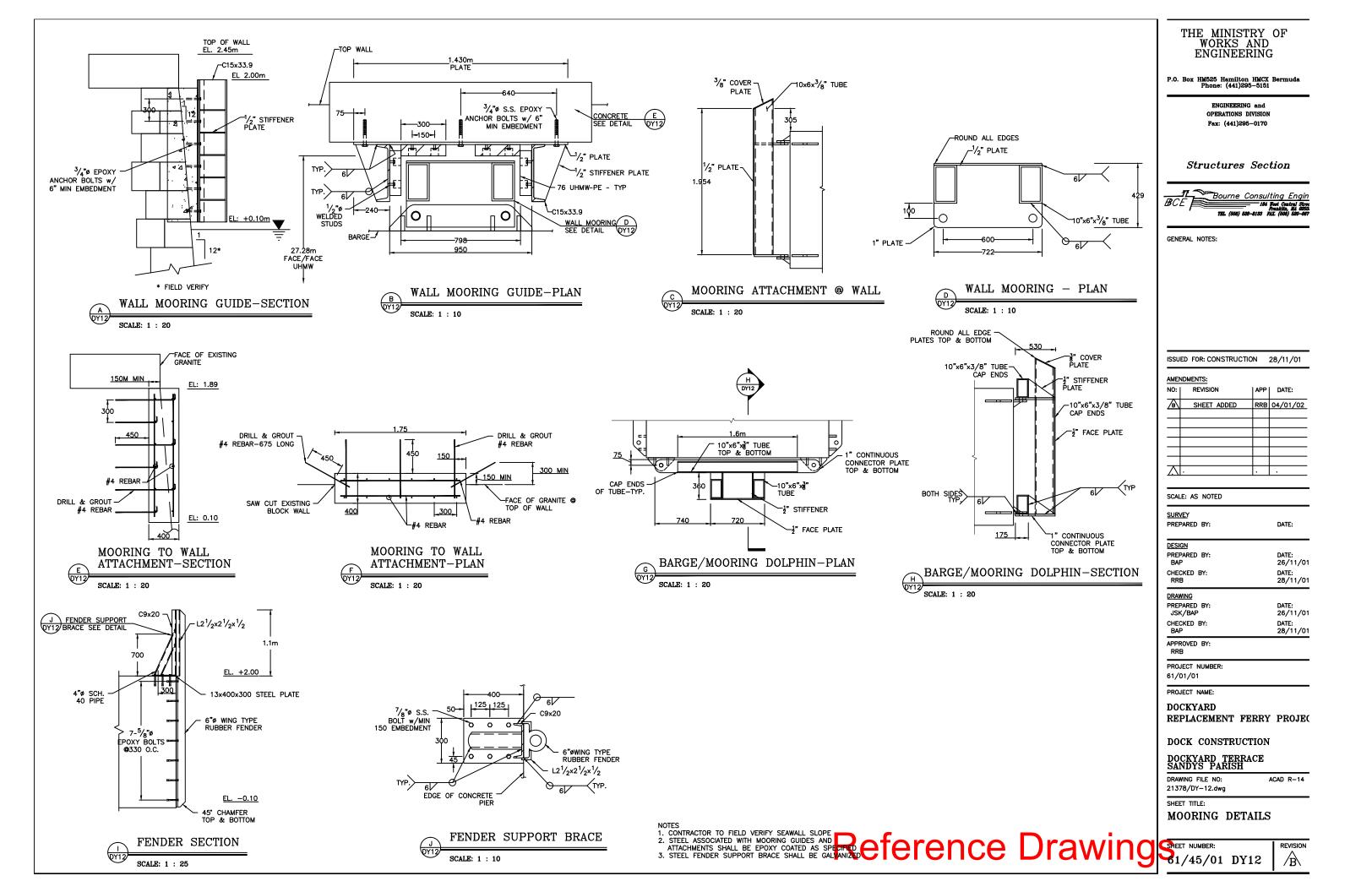
SHEET TITLE:

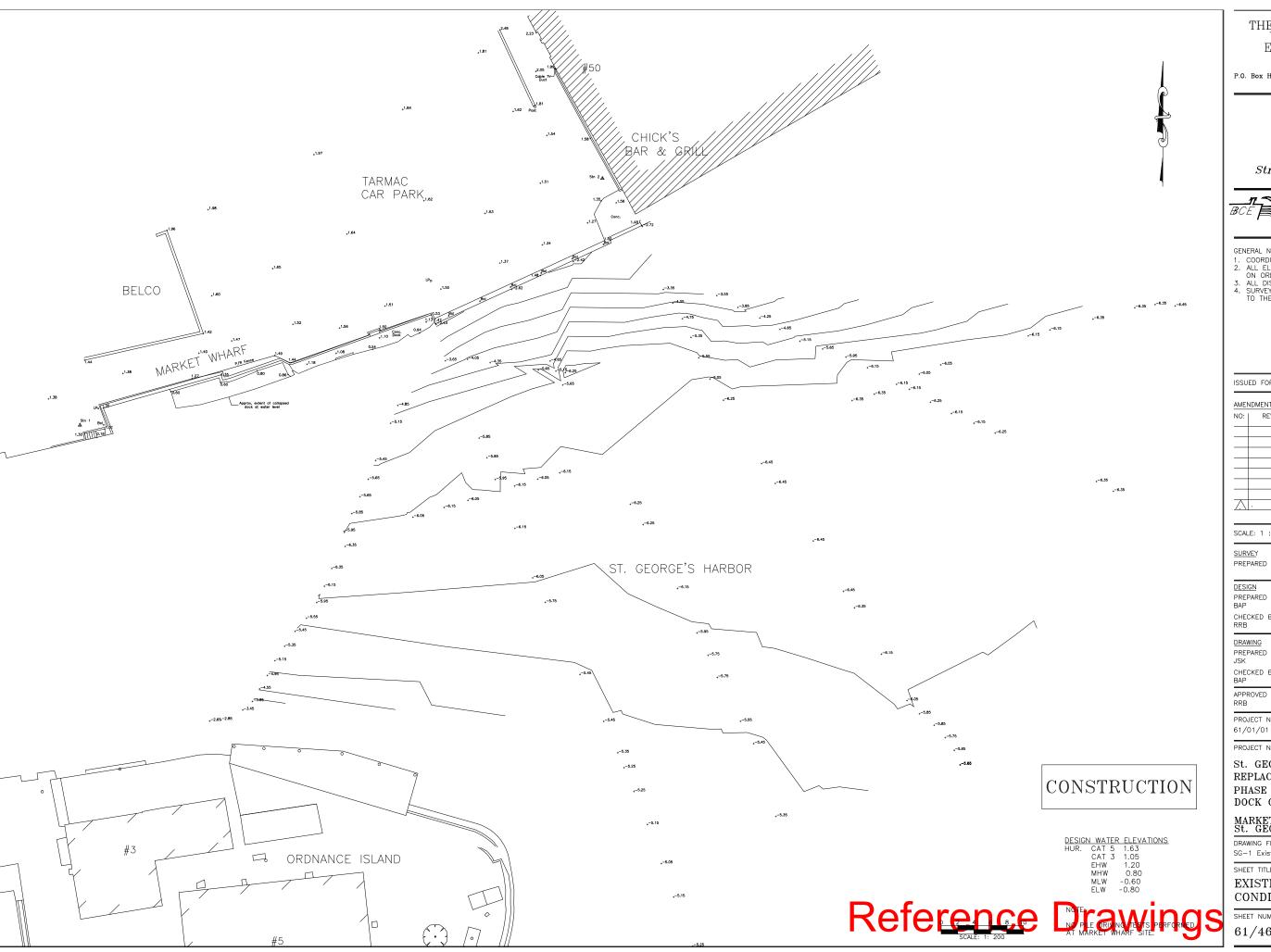
MOORING LAYOUT

61/45/01/DY11



28/11/01





P.O. Box HM525 Hamilton HMCX Bermuda Phone: (441)295-5151

ENGINEERING and OPERATIONS DIVISION Fax: (441)295-0170

Structures Section



GENERAL NOTES:

- 1. COORDINATES BASED ON BNG 2000.
 2. ALL ELEVATIONS ARE IN METERS BASED ON ORDNANCE DATUM.
 3. ALL DISTANCES ARE IN METERS.
 4. SURVEY CONTROL SHALL BE PROVIDED TO THE CONTRACTOR BY THE OWNER.

ISSUED FOR: CONSTRUCTION 14/08/01

REVISION	APP	DATE:
	REVISION	REVISION APP

SCALE: 1 : 200	
SURVEY PREPARED BY:	DATE:
DESIGN PREPARED BY: BAP CHECKED BY: RRB	DATE: 23/05/01 DATE: 23/05/01
DRAWING PREPARED BY: JSK CHECKED BY: BAP	DATE: 23/05/01 DATE: 23/05/01

APPROVED BY: PROJECT NUMBER:

PROJECT NAME:

St. GEORGE'S REPLACEMENT FERRY PROJEC PHASE 1 DOCK CONSTRUCTION

MARKET WHARF St. GEORGE'S PARISH

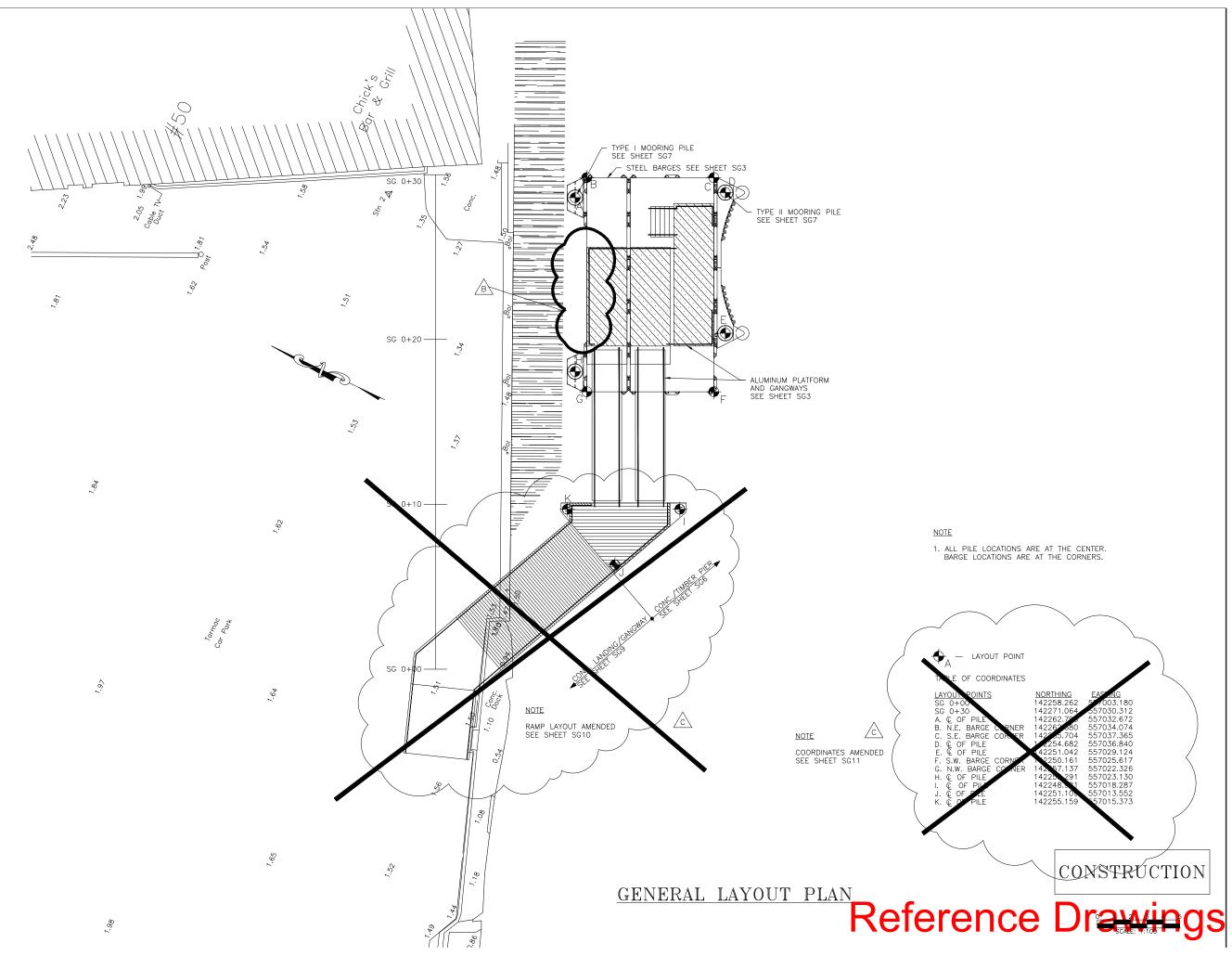
DRAWING FILE NO: SG-1 Existing Cond.dwg

SHEET TITLE:

EXISTING CONDITIONS

SHEET NUMBER: 61/46/01/SG1

REVISION



P.O. Box HM525 Hamilton HMCX Bermuda Phone: (441)295-5151

ENGINEERING and OPERATIONS DIVISION Fax: (441)295-0170

Structures Section



GENERAL NOTES:

- 1. COORDINATES BASED ON BNG 2000.
 2. ALL ELEVATIONS ARE IN METERS BASED ON ORDNANCE DATUM.
 3. ALL DISTANCES ARE IN METERS.
 4. SURVEY CONTROL SHALL BE PROVIDED TO THE CONTRACTOR BY THE OWNER.

ISSUED FOR: CONSTRUCTION 14/08/01

AMENDMENTS:

NO:	REVISION	APP	DATE:
A	BARGE II	RRB	04/01/02
A	LAYOUT CHANGED	RJT	23/05/02
l			
l			

SCALE: 1 . 100	
SURVEY PREPARED BY:	DATE:
DESIGN PREPARED BY: BAP	DATE: 23/05/0
CHECKED BY: RRB	DATE: 23/05/0
DRAWING	
PREPARED BY: JSK	DATE: 23/05/0
CHECKED BY: BAP	DATE: 23/05/0
APPROVED BY:	

PROJECT NUMBER: 61/01/01

PROJECT NAME:

St. GEORGE'S REPLACEMENT FERRY PROJEC PHASE 1

DOCK CONSTRUCTION

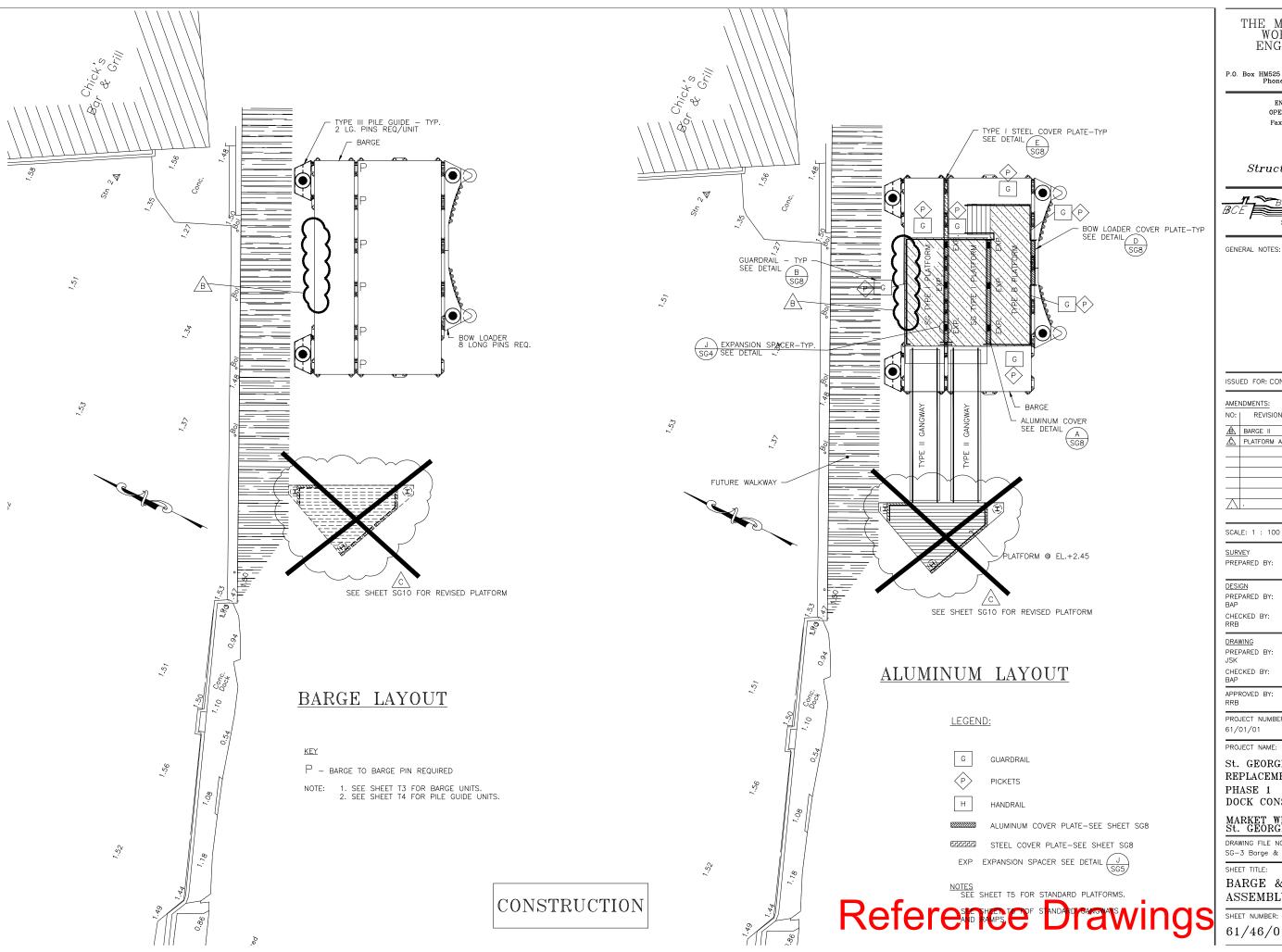
MARKET WHARF St. GEORGE'S PARISH

DRAWING FILE NO: ACAD R-14 SG-2 SITE LAYOUT.dwg

SHEET TITLE:

SITE LAYOUT

SHEET NUMBER: REVISION 61/46/01/SG2



P.O. Box HM525 Hamilton HMCX Bermuda Phone: (441)295-5151

ENGINEERING and OPERATIONS DIVISION Fax: (441)295-0170

Structures Section



GENERAL NOTES:

ISSUED FOR: CONSTRUCTION 14/08/01

AME	NDMENTS:		
NO:	REVISION	APP	D
Æ	BARGE II	RRB	04
A	PLATFORM AMENDED	RJT	23

Æ	BARGE II	RRB	04/01/02
Æ	PLATFORM AMENDED	RJT	04/01/02 23/05/02
$\overline{\wedge}$			

<u>SURVEY</u> PREPARED BY: DATE:

DATE: 23/05/01 CHECKED BY: DATE: 23/05/01 <u>DRAWING</u> DATE: 23/05/01 PREPARED BY:

APPROVED BY:

PROJECT NUMBER: 61/01/01

PROJECT NAME:

St. GEORGE'S REPLACEMENT FERRY PROJEC PHASE 1

DOCK CONSTRUCTION

MARKET WHARF St. GEORGE'S PARISH

DRAWING FILE NO: ACAD R-14 SG-3 Barge & Assembly Plan.dwg

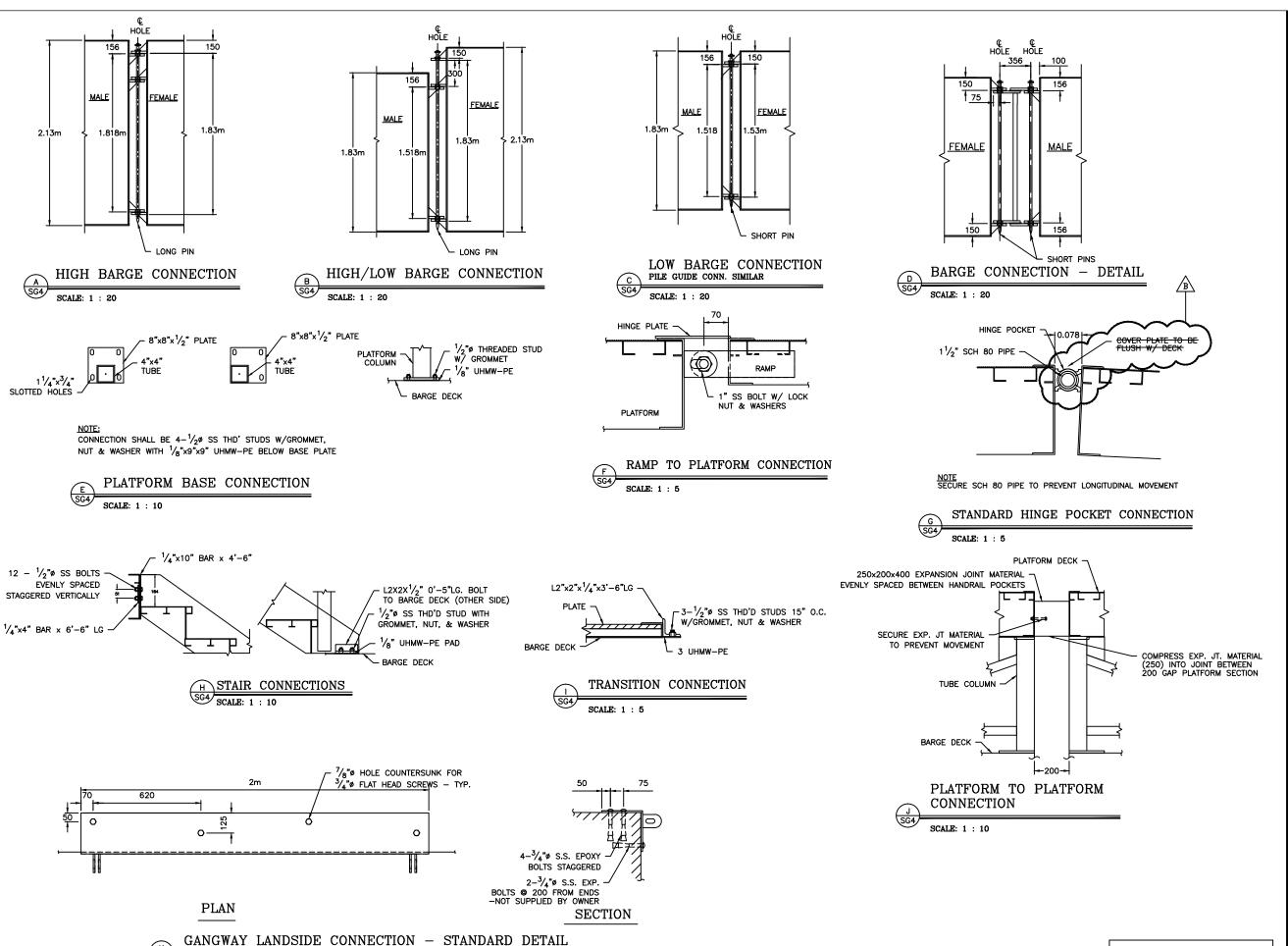
SHEET TITLE:

BARGE & ALUMINUM ASSEMBLY PLAN

SHEET NUMBER: 61/46/01/SG3



DATE: 23/05/01



SCALE: 1:10

Reference Drawings

THE MINISTRY OF WORKS AND ENGINEERING

P.O. Box HM525 Hamilton HMCX Bermuda Phone: (441)295-5151

> ENGINEERING and OPERATIONS DIVISION Fax: (441)295-0170

Structures Section



GENERAL NOTES:

_	D FOR: CONSTRU		14/08/01
NO:	DMENTS: REVISION	APP	DATE:
B	COVER PLATE	RRB	04/01/02
7			
\exists			
$\overline{\Lambda}$			
SCALE	E: AS NOTED		
SURVI PREP	EY ARED BY:		DATE:
DESIGN PREPARED BY: BAP			DATE: 23/05/0
CHECKED BY: RRB			DATE: 23/05/0
DRAWING PREPARED BY: JSK			DATE: 23/05/0
CHECKED BY: BAP			DATE: 23/05/0
APPRI	OVED BY:		
PROJI 61/0	ECT NUMBER:		

MARKET WHARF St. GEORGE'S PARISH

DOCK CONSTRUCTION

REPLACEMENT FERRY PROJEC

DRAWING FILE NO: SG-4 ASSEMBLY-CONN.DWG

SHEET TITLE:

PROJECT NAME:

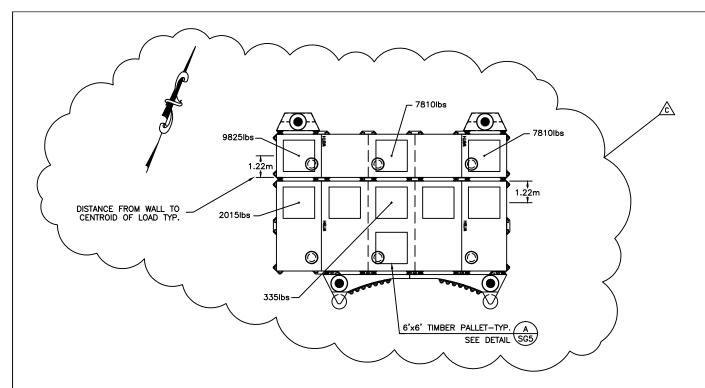
PHASE 1

St. GEORGE'S

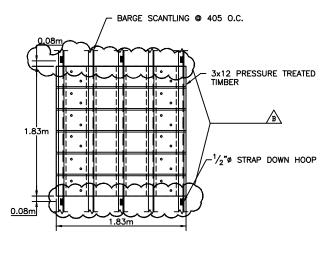
ASSEMBLY CONNECTION

SHEET NUMBER: 61/46/01/SG4

REVISION



ST. GEORGE'S



BALLAST PALLET-PLAN SCALE: 1 : 25

1. BALLAST LOADS ARE SHOWN AT CENTER

OF BAY UNLESS NOTED OTHERWISE.

BALLAST TO BE REMOVEABLE
CONCRETE BLOCK OR LEAD.

A BALLAST SHALL BE INSTALLED ON THE

THE MINISTRY OF WORKS AND ENGINEERING

P.O. Box HM525 Hamilton HMCX Bermuda Phone: (441)295-5151

ENGINEERING and OPERATIONS DIVISION Fax: (441)295-0170

Structures Section



GENERAL NOTES:

ISSUED FOR: CONSTRUCTION 14/08/01

AMENDMENTS:					
NO:	REVISION	APP	DATE:		
Æ	HOOP ORIENTATION	RRB	04/01/02		
Δl	BALLAST	BAP	13/05/02		
Λ	•	· _			

SCALE: AS NOTED

SURVEY PREPARED BY: DATE: DESIGN

PREPARED BY: BAP DATE: 23/05/01 CHECKED BY: RRB DATE: 23/05/01 DRAWING PREPARED BY: DATE: 23/05/01 CHECKED BY: DATE: 23/05/01

APPROVED BY:

PROJECT NUMBER: 61/01/01

PROJECT NAME:

St. GEORGE'S

REPLACEMENT FERRY PROJEC PHASE 1

DOCK CONSTRUCTION MARKET WHARF St. GEORGE'S PARISH

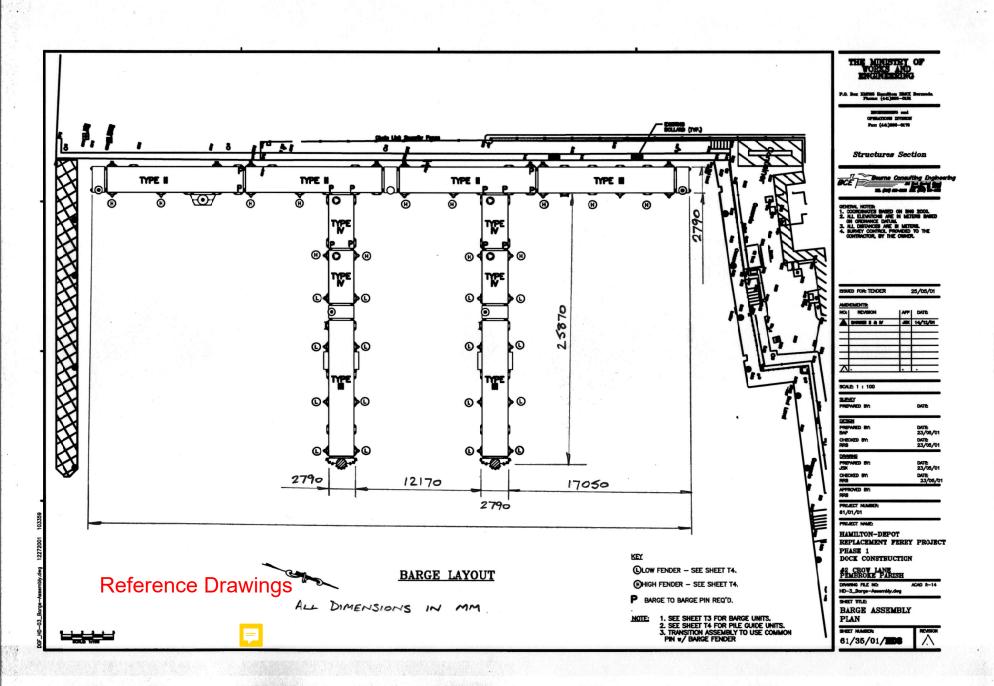
DRAWING FILE NO:

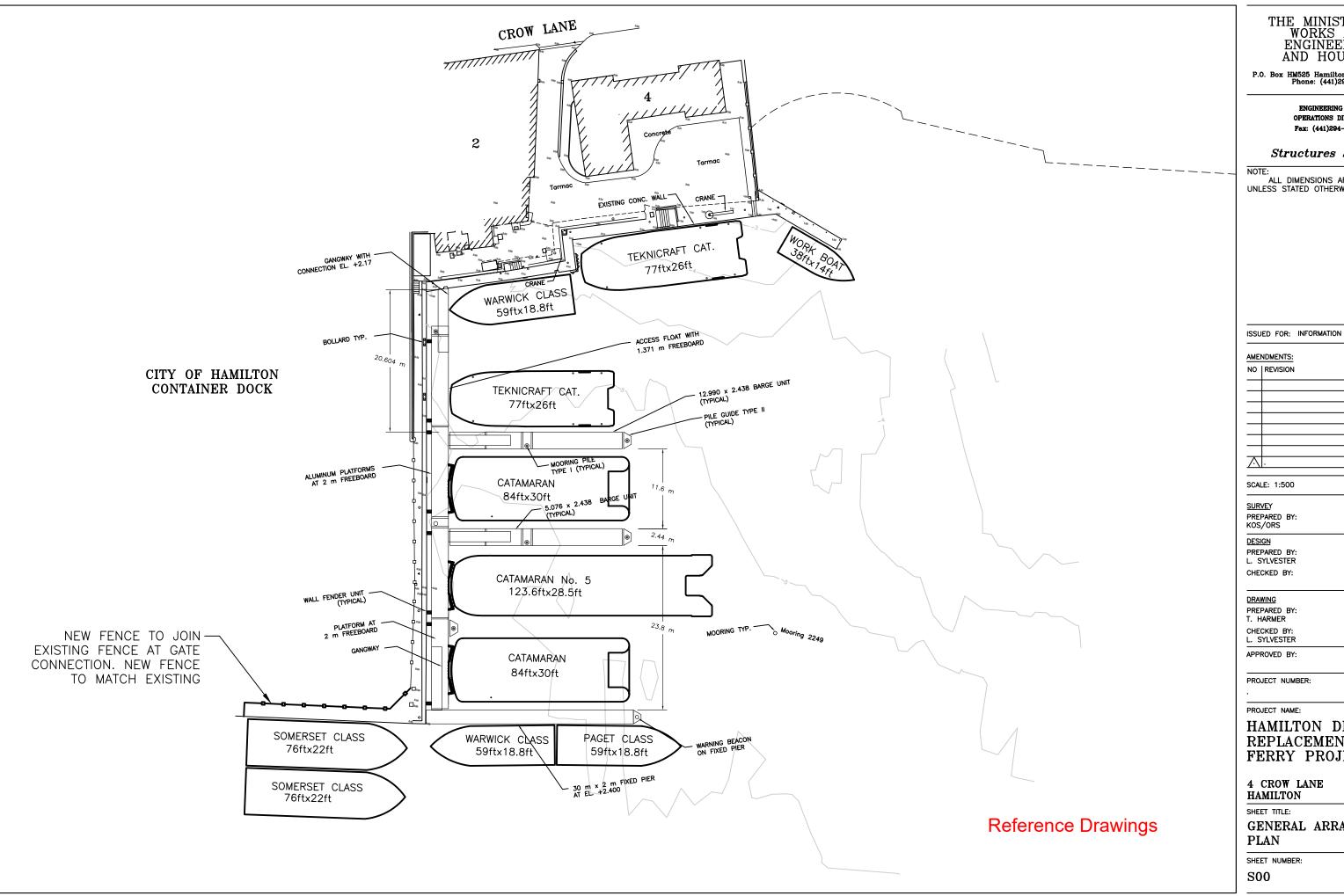
SG-5 Ballasting Plan.dwg SHEET TITLE:

BALLASTING **PLAN**

SHEET NUMBER: REVISION ∕c\ 61/46/01/SG5







THE MINISTRY OF WORKS AND ENGINEERING AND HOUSING

P.O. Box HM525 Hamilton HMCX Bermuda Phone: (441)295-5151

ENGINEERING and OPERATIONS DIVISION Fax: (441)294-9087

Structures Section

ALL DIMENSIONS ARE IN METERS UNLESS STATED OTHERWISE.

25/07/06

AMENDMENTS: NO | REVISION SCALE: 1:500 SURVEY PREPARED BY: KOS/ORS DATE: 14/07/99 DESIGN PREPARED BY: L. SYLVESTER DATE: 21/07/06 CHECKED BY: DATE: **DRAWING** PREPARED BY: T. HARMER DATE: 24/07/06 CHECKED BY: L. SYLVESTER DATE: 25/07/06 APPROVED BY:

HAMILTON DEPOT REPLACEMENT FERRY PROJECT

4 CROW LANE **HAMILTON**

SHEET TITLE:

GENERAL ARRANGEMENT PLAN

SHEET NUMBER:

REVISION



Component List

Note: The component list contains items used in the original works. Items may have changed since then, so $\underline{\text{this list is to be used as a guide only}}$. The Contractor is advised to confirm this list.

There might be missing components or additional spare components stored at Government Quarry.

Components	H <u>amilton Terminal</u>	Dockyard	From St. Georges
			Now believed to be at Governments Quarry
Barges			
Type I	2	1	1
Type II	2		1
Type III	3	2	
Type IV	2	1	
Barge Connectors			
Long pins	60	33	25
Short pins	53	30	
Special connector	1		
Pile Guides			
Type I	2		
Type II	2	1	
Type III	1		2
Type IV			
Bow Loader Unit	2	1	1
Fenders			
Type H	2		
Type L	17	10	
Wall fenders			
Fender Panels			
Gangways			
Type I			
Type II	2	2	2
Type III			
Type IV	1		
Ramps			
Type A	2	1	

Transition Ramp	1	1	
HT - Type I	1		
DY - Type I		1	
DY - Stairs		1	
SG - Stairs			1
Platforms			
Type A	4		
HD - Type I			
HD - Type 2			
HD - Type 3			
HT - Type 1	2		
HT - Type 2	1		
Type B		1	1
DY - Type 1		1	
DY - Type 2		1	
SG - Type 1			2

END OF SECTION