

RETURN BIDS TO:
RETOURNER LES SOUMISSIONS À:
Bid Receiving Public Works and Government
Services Canada/Réception des soumissions Travaux
publics et Services gouvernementaux Canada
800 Burrard Street, Room 219
800, rue Burrard, pièce 219
Vancouver
British Columbia
V6Z 0B9
Bid Fax: (604) 775-9381

SOLICITATION AMENDMENT MODIFICATION DE L'INVITATION

The referenced document is hereby revised; unless otherwise indicated, all other terms and conditions of the Solicitation remain the same.

Ce document est par la présente révisé; sauf indication contraire, les modalités de l'invitation demeurent les mêmes.

Comments - Commentaires

Vendor/Firm Name and Address
Raison sociale et adresse du
fournisseur/de l'entrepreneur

Issuing Office - Bureau de distribution
Public Works and Government Services Canada -
Pacific Region
800 Burrard Street, Room 219
800, rue Burrard, pièce 219
Vancouver
British C
V6Z 0B9

Title - Sujet New Floats for MSPV Moorage	
Solicitation No. - N° de l'invitation F1816-140001/A	Amendment No. - N° modif. 004
Client Reference No. - N° de référence du client F1816-140001	Date 2014-05-30
GETS Reference No. - N° de référence de SEAG PW-\$PWY-015-7252	
File No. - N° de dossier PWY-4-37014 (015)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2014-06-06	Time Zone Fuseau horaire Pacific Daylight Saving Time PDT
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Chan (PWY), Scarlett	Buyer Id - Id de l'acheteur pwy015
Telephone No. - N° de téléphone (604) 775-9382 ()	FAX No. - N° de FAX (604) 775-6633
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: DFO - Institute of Ocean Sciences - Patricia Bay, BC	

Instructions: See Herein

Instructions: Voir aux présentes

Delivery Required - Livraison exigée	Delivery Offered - Livraison proposée
Vendor/Firm Name and Address Raison sociale et adresse du fournisseur/de l'entrepreneur	
Telephone No. - N° de téléphone Facsimile No. - N° de télécopieur	
Name and title of person authorized to sign on behalf of Vendor/Firm (type or print) Nom et titre de la personne autorisée à signer au nom du fournisseur/ de l'entrepreneur (taper ou écrire en caractères d'imprimerie)	
Signature	Date

30 May 2014

Les documents français seront disponibles sur demande.

ADDENDUM NO. 3

The following changes/clarification to the tender documents are effective immediately. This addendum will form part of the tender/contract documents.

Specification Section 01115

Revise Clause 1.4.3 of Section 01115 to read as:

Hours of work will be restricted to 7:00 AM to 6:00 PM daily, including weekends

Existing Camel Drawings

Add As-Built drawings "Titled Patricia Bay, BC Institute of Oceans Sciences - Main Wharf Fendering Upgrade (13 sheets)" showing Camel construction details

Drawing 496-101

Replace the note " 6x16 intermediate bars @ 38.1 (1 ½") O.C. with " 6x10 intermediate bars @ 38.1 (1 ½") O.C.

Drawing 496-401 Under Grating Note (Section C)

Remove the following note as Borden grating is not required :

"Borden #9 Type W/F Galvanized (or approved equal)"

General Inquiries/Clarifications:

Question: Are we able to replace the 2 - 12.75" x 0.375 approach piles with 18" x 0.5" piles

Answer: There is an error in the question as the drawing shows the approach piles as 2 - 12.75" x 0.5" not 2 - 12.75" x 0.375. Also, no alternate or substitution will be allowed.

Question: Would you consider re-specifying the project to use 24" piles in place of the 18" piles for the float moorage ?

Answer: No alternate or substitution will be allowed.

Question: For our drilling water discharge we are planning on setting up a 3 phase system. First phase will have discharge go into a containment tank to settle out coarse rick Second phase will go into another containment tank to settle out fines. Third phase will have the dirty water drain into a filter bag which then would drain back into the ocean. Is this an acceptable method If not, what is the expectation for treating the drilling discharge water.

Answer: The drilling process must comply with the requirements of the Standard Mitigation Organized by Project Activity included in Appendix C of the Contract Documents. Any discharge water or drill tailings discharged into the ocean or in land should follow the BC Marine and Pile Driving Contractors Association, Best Management Practices for Pile Driving and Related Operations and should comply with the local or municipal regulations with respect to discharge onshore.

End of of Addendum No. 3

STRUCTURAL AND MISCELLANEOUS STEEL

1. STRUCTURAL STEEL: C_{45} OR C_{50} (SA 485/500), WITH THE FOLLOWING GRADATIONS: W 360, W 400, W 440, W 460, W 500, W 550, W 600, W 660, W 700, W 750, W 800, W 850, W 900, W 950, W 1000, W 1100, W 1200, W 1300, W 1400, W 1500, W 1600, W 1700, W 1800, W 1900, W 2000, W 2100, W 2200, W 2300, W 2400, W 2500, W 2600, W 2700, W 2800, W 2900, W 3000, W 3100, W 3200, W 3300, W 3400, W 3500, W 3600, W 3700, W 3800, W 3900, W 4000, W 4100, W 4200, W 4300, W 4400, W 4500, W 4600, W 4700, W 4800, W 4900, W 5000, W 5100, W 5200, W 5300, W 5400, W 5500, W 5600, W 5700, W 5800, W 5900, W 6000, W 6100, W 6200, W 6300, W 6400, W 6500, W 6600, W 6700, W 6800, W 6900, W 7000, W 7100, W 7200, W 7300, W 7400, W 7500, W 7600, W 7700, W 7800, W 7900, W 8000, W 8100, W 8200, W 8300, W 8400, W 8500, W 8600, W 8700, W 8800, W 8900, W 9000, W 9100, W 9200, W 9300, W 9400, W 9500, W 9600, W 9700, W 9800, W 9900, W 10000, W 10100, W 10200, W 10300, W 10400, W 10500, W 10600, W 10700, W 10800, W 10900, W 11000, W 11100, W 11200, W 11300, W 11400, W 11500, W 11600, W 11700, W 11800, W 11900, W 12000, W 12100, W 12200, W 12300, W 12400, W 12500, W 12600, W 12700, W 12800, W 12900, W 13000, W 13100, W 13200, W 13300, W 13400, W 13500, W 13600, W 13700, W 13800, W 13900, W 14000, W 14100, W 14200, W 14300, W 14400, W 14500, W 14600, W 14700, W 14800, W 14900, W 15000, W 15100, W 15200, W 15300, W 15400, W 15500, W 15600, W 15700, W 15800, W 15900, W 16000, W 16100, W 16200, W 16300, W 16400, W 16500, W 16600, W 16700, W 16800, W 16900, W 17000, W 17100, W 17200, W 17300, W 17400, W 17500, W 17600, W 17700, W 17800, W 17900, W 18000, W 18100, W 18200, W 18300, W 18400, W 18500, W 18600, W 18700, W 18800, W 18900, W 19000, W 19100, W 19200, W 19300, W 19400, W 19500, W 19600, W 19700, W 19800, W 19900, W 20000, W 20100, W 20200, W 20300, W 20400, W 20500, W 20600, W 20700, W 20800, W 20900, W 21000, W 21100, W 21200, W 21300, W 21400, W 21500, W 21600, W 21700, W 21800, W 21900, W 22000, W 22100, W 22200, W 22300, W 22400, W 22500, W 22600, W 22700, W 22800, W 22900, W 23000, W 23100, W 23200, W 23300, W 23400, W 23500, W 23600, W 23700, W 23800, W 23900, W 24000, W 24100, W 24200, W 24300, W 24400, W 24500, W 24600, W 24700, W 24800, W 24900, W 25000, W 25100, W 25200, W 25300, W 25400, W 25500, W 25600, W 25700, W 25800, W 25900, W 26000, W 26100, W 26200, W 26300, W 26400, W 26500, W 26600, W 26700, W 26800, W 26900, W 27000, W 27100, W 27200, W 27300, W 27400, W 27500, W 27600, W 27700, W 27800, W 27900, W 28000, W 28100, W 28200, W 28300, W 28400, W 28500, W 28600, W 28700, W 28800, W 28900, W 29000, W 29100, W 29200, W 29300, W 29400, W 29500, W 29600, W 29700, W 29800, W 29900, W 30000, W 30100, W 30200, W 30300, W 30400, W 30500, W 30600, W 30700, W 30800, W 30900, W 31000, W 31100, W 31200, W 31300, W 31400, W 31500, W 31600, W 31700, W 31800, W 31900, W 32000, W 32100, W 32200, W 32300, W 32400, W 32500, W 32600, W 32700, W 32800, W 32900, W 33000, W 33100, W 33200, W 33300, W 33400, W 33500, W 33600, W 33700, W 33800, W 33900, W 34000, W 34100, W 34200, W 34300, W 34400, W 34500, W 34600, W 34700, W 34800, W 34900, W 35000, W 35100, W 35200, W 35300, W 35400, W 35500, W 35600, W 35700, W 35800, W 35900, W 36000, W 36100, W 36200, W 36300, W 36400, W 36500, W 36600, W 36700, W 36800, W 36900, W 37000, W 37100, W 37200, W 37300, W 37400, W 37500, W 37600, W 37700, W 37800, W 37900, W 38000, W 38100, W 38200, W 38300, W 38400, W 38500, W 38600, W 38700, W 38800, W 38900, W 39000, W 39100, W 39200, W 39300, W 39400, W 39500, W 39600, W 39700, W 39800, W 39900, W 40000, W 40100, W 40200, W 40300, W 40400, W 40500, W 40600, W 40700, W 40800, W 40900, W 41000, W 41100, W 41200, W 41300, W 41400, W 41500, W 41600, W 41700, W 41800, W 41900, W 42000, W 42100, W 42200, W 42300, W 42400, W 42500, W 42600, W 42700, W 42800, W 42900, W 43000, W 43100, W 43200, W 43300, W 43400, W 43500, W 43600, W 43700, W 43800, W 43900, W 44000, W 44100, W 44200, W 44300, W 44400, W 44500, W 44600, W 44700, W 44800, W 44900, W 45000, W 45100, W 45200, W 45300, W 45400, W 45500, W 45600, W 45700, W 45800, W 45900, W 46000, W 46100, W 46200, W 46300, W 46400, W 46500, W 46600, W 46700, W 46800, W 46900, W 47000, W 47100, W 47200, W 47300, W 47400, W 47500, W 47600, W 47700, W 47800, W 47900, W 48000, W 48100, W 48200, W 48300, W 48400, W 48500, W 48600, W 48700, W 48800, W 48900, W 49000, W 49100, W 49200, W 49300, W 49400, W 49500, W 49600, W 49700, W 49800, W 49900, W 50000, W 50100, W 50200, W 50300, W 50400, W 50500, W 50600, W 50700, W 50800, W 50900, W 51000, W 51100, W 51200, W 51300, W 51400

EMBEDDED ANCHORS

1. ALL ANCHOR RODS TO BE STAINLESS

2. DRILL ANCHOR HOLES IN CONCRETE AS DETAILS, ADJUST TO AVOID CONTACT WITH EXISTING REINFORCING. PLUG ALL DRILL HOLES NOT USED WITH GENEROUS GROUT.
3. FIELD MEASURE AND DRILL FABRICATED STEEL ELEMENTS & PLATES TO SUIT FIELD DRILL HOLES
4. EPOXY GROUT ANCHORS WITH "ULTI HIT HY150" OR APPROVED EQUIVALENT (SEE 500 EPOXY UNDERWATER)
5. TACK WELD ALL EXPOSED NUTS HOLDING CHAIN TO CONCRETE

FENDERS

- ## 1. FENDER RUBBERS

DESIGN OF THE FENDER RUBBERS HAS BEEN BASED ON PROPRIETARY CATALOGUE INFORMATION REQUIRED DESIGN

CONC	UNIT	ELDMNT	USESSO	500	400	350	180
CONC							
UNIT	ELDMNT	USESSO	500	400	350	180	
CONC							

- (ARCH AND UNIT ELEMENT DATA BASED ON 1 MI W)
- FACE FINISH:
- Sheet 4 OF 10 TOTAL: MOUNTAIN 4 STATE

- TYPE B: STRUCTURAL MOUNTING TO FACE OF EMBEDDED STEEL PLATE WITH UHPC HOLES AT OTHER END. PANEL MOUNTING

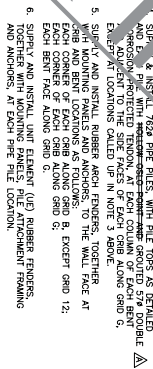
- TYPE C: STRUCTURAL MOUNTING RUBBERS
2. PROVIDE, FOR ENGINEER'S APPROVAL, DATA AND PERFORMANCE DATA OF FENDER RUBBERS TO BE SUBMITTED MEET THE ABOVE REQUIREMENTS.
 3. FENDER MOUNTING PLATE SIZES AND ANCHOR BOLT LOCATIONS ARE TO BE ADJUSTED TO THE CONTRACTOR FOR FENDER RUBBERS APPROVED BY PM/SCS.

7000

SUMMARY OF SCOPE OF WORK

1. REMOVE DISPOSED RUBBER PILES ALONG THE NORTH AND SOUTH FALLOUT ZONE AND END CRIBS OF ARCH 1 AND PIER 2.
2. REEL AND USE 200MM RUBBER ROPE CHAIN TENDERS WHEN REQUIRED TO ACCOMMODATE NEW TENDERING SYSTEM.
3. SUPPLY AND INSTALL RUBBER PILES, CHAIN BRIDGES, AND PILING TO PROTECT AND STRENGTHEN THE EXISTING RUBBER PILES.
4. LOCATE AND REEL RUBBER PILES AT THE FOLLOWING LOCATIONS:
 - CRIBS 3 TO 10.
 - CRIBS 11 TO 12.
 - CRIBS 13 TO 14.
 - CRIBS 15 TO 16.
 - CRIBS 17 TO 18.
 - CRIBS 19 TO 20.
 - CRIBS 21 TO 22.
 - CRIBS 23 TO 24.
 - CRIBS 25 TO 26.
 - CRIBS 27 TO 28.
 - CRIBS 29 TO 30.
 - CRIBS 31 TO 32.
 - CRIBS 33 TO 34.
 - CRIBS 35 TO 36.
 - CRIBS 37 TO 38.
 - CRIBS 39 TO 40.
 - CRIBS 41 TO 42.
 - CRIBS 43 TO 44.
 - CRIBS 45 TO 46.
 - CRIBS 47 TO 48.
 - CRIBS 49 TO 50.
 - CRIBS 51 TO 52.
 - CRIBS 53 TO 54.
 - CRIBS 55 TO 56.
 - CRIBS 57 TO 58.
 - CRIBS 59 TO 60.
 - CRIBS 61 TO 62.
 - CRIBS 63 TO 64.
 - CRIBS 65 TO 66.
 - CRIBS 67 TO 68.
 - CRIBS 69 TO 70.
 - CRIBS 71 TO 72.
 - CRIBS 73 TO 74.
 - CRIBS 75 TO 76.
 - CRIBS 77 TO 78.
 - CRIBS 79 TO 80.
 - CRIBS 81 TO 82.
 - CRIBS 83 TO 84.
 - CRIBS 85 TO 86.
 - CRIBS 87 TO 88.
 - CRIBS 89 TO 90.
 - CRIBS 91 TO 92.
 - CRIBS 93 TO 94.
 - CRIBS 95 TO 96.
 - CRIBS 97 TO 98.
 - CRIBS 99 TO 100.

- 16 GRID 11 AT EACH COLUMN.



OF RUBBER FENDERS ADJACENT TO
CRIB ALONG GRID G.

8. SUPPLY AND INSTALL UHMW(PE) PANELS AT LOCATIONS SHOWN.
9. SUPPLY AND INSTALL LOAD DEFLECTION GABLETS TO PILES AT LOCATIONS OF THE RUBBER FENDERS, EXCEPT THE CROSS PILES ALONG GROUND 13.
10. SUPPLY AND INSTALL CONTINUOUS 7100 PPE CABLES WITH FOAM TIL, SPICE JOINTS, OUTSCISSERS, RUBBER SHIP LANDING HSS & CHAINS; ACCESSORIES, AND UHMW(PE) PANELS. CABLES TO BE PROVIDED ALONG GROUNDS A, B, F, G & 11.
11. SUPPLY AND INSTALL ACHD RUBBER FENDERS AT PPE

**Public Works and
Government Services**
**Travaux publics et
Services gouvernementaux**

- | Pacific Region | Region du Pacifique |
|-----------------------------|---------------------|
| Fisheries and Oceans Canada | |

- KM Engineering Group Inc.

Suite 305 - 695 Fort Street, Victoria, B.C. V8W 1H7

- TTL (250) 920-7979 FAX (250) 920-7911
CADD FILE NO. - SHEET 1
KM ENGINEERING PROJECT NO. - KM 04-03

[illegible]

PATRICIA BAY, B.C.
INSTITUTE OF OCEAN SCIENCES
MAIN WHARF
FENDERING UPGRADE

designated	UNIONED VENTURA, P. ENG.	consent	
date	02.02.12	date	
drawn	ALLEN CONNELLY	drawn	
date	02.02.10	date	
approved		approved	
date		date	
Tensor		Scissors	
ENGINE PROJECT Manager	ADMINISTRATIVE de APODIA INSPECTION		
project number	855033	number of project	
drawing number	number of sheets	rev	
001		A	

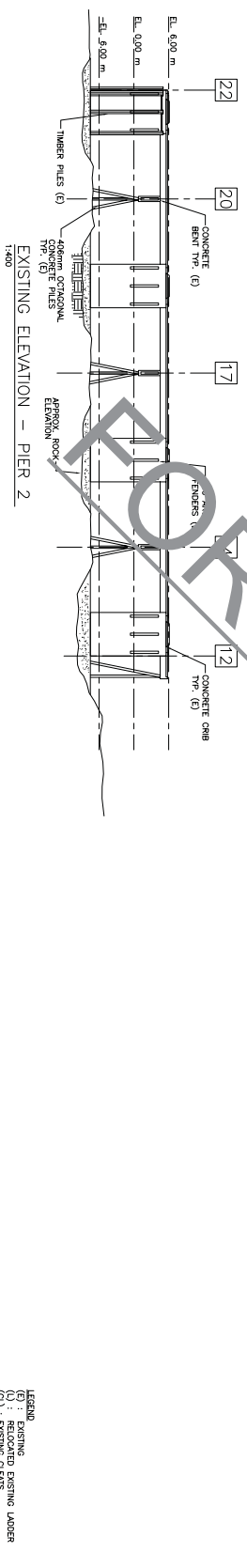
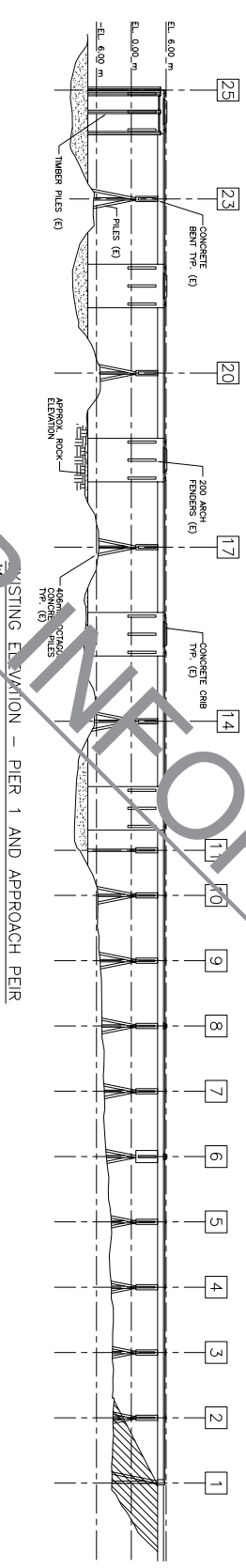
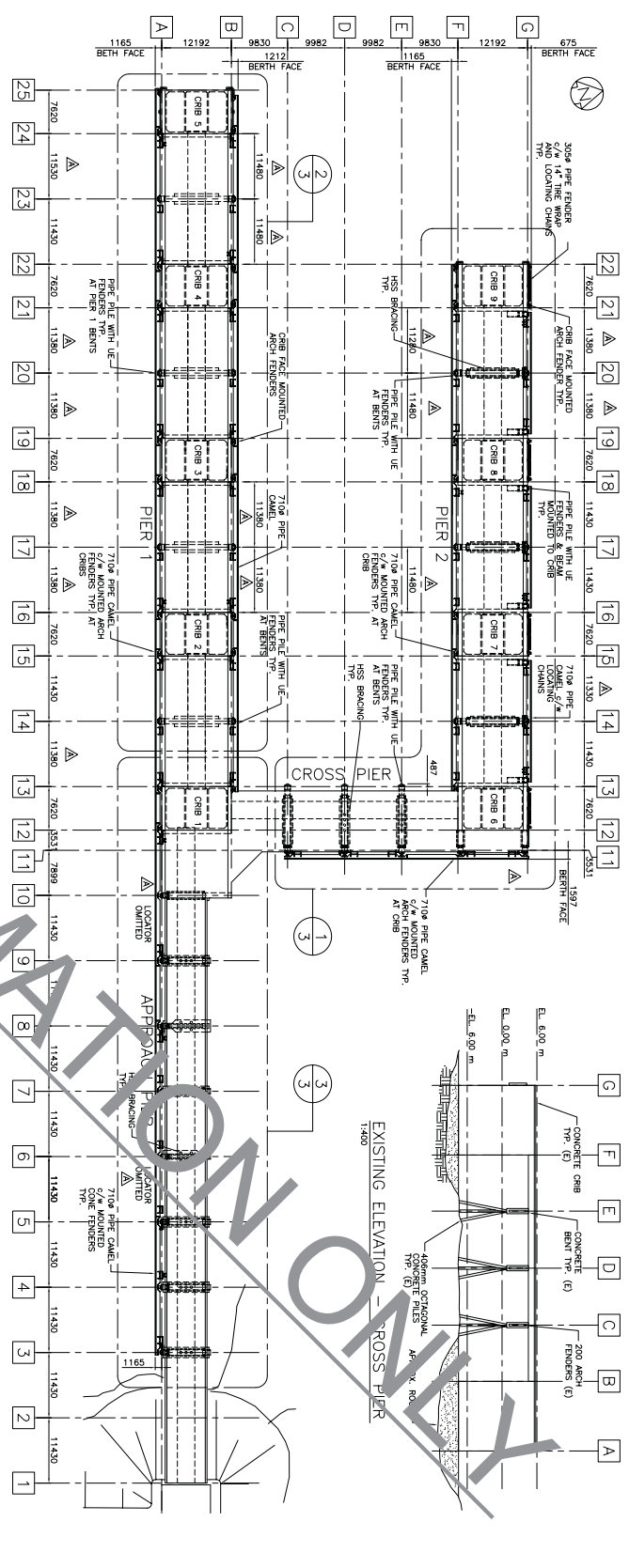
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C	number of drawing no.	B/C	number of drawing no.
	detail on drawing no.		detail on drawing no.
	detail per drawing no.		detail per drawing no.

PATRICIA BAY, B.C.
INSTITUTE OF OCEAN SCIENCES
MAIN WHARF
FENDERING UPGRADE

GENERAL ARRANGEMENT AND
EXISTING SECTIONS

designed	WACHELO KANISAKA, P. ENG.	checked	
date	03.03.02	date	
drawn	ARLEN KANISAKA	checked	
date	03.03.10	date	
approved		approved	
date		date	
checked		checked	
date		date	
Project Manager	Administrateur de projet, TPOSC	Project Manager	
Project number	863033	Project number	
drawing number	002	drawing number	



LEGEND
(E) : EXISTING
(U) : RECONSTRUCTED EXISTING
(N) : EXISTING FLEETS

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KM ENGINEERING PROJECT NO. - KM 04-03

number du detail

A

source drawing no.

B

de dessin no.

C

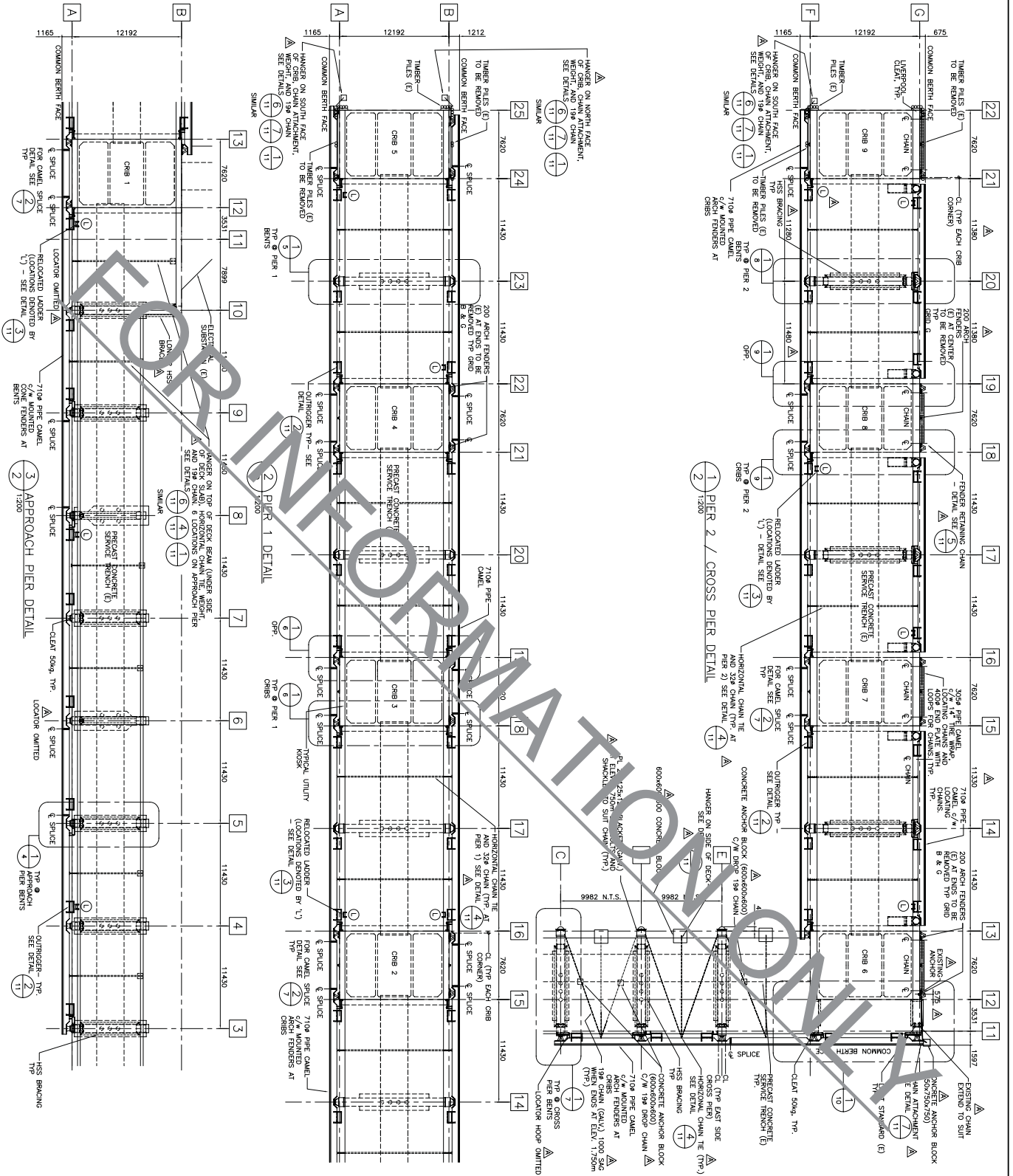
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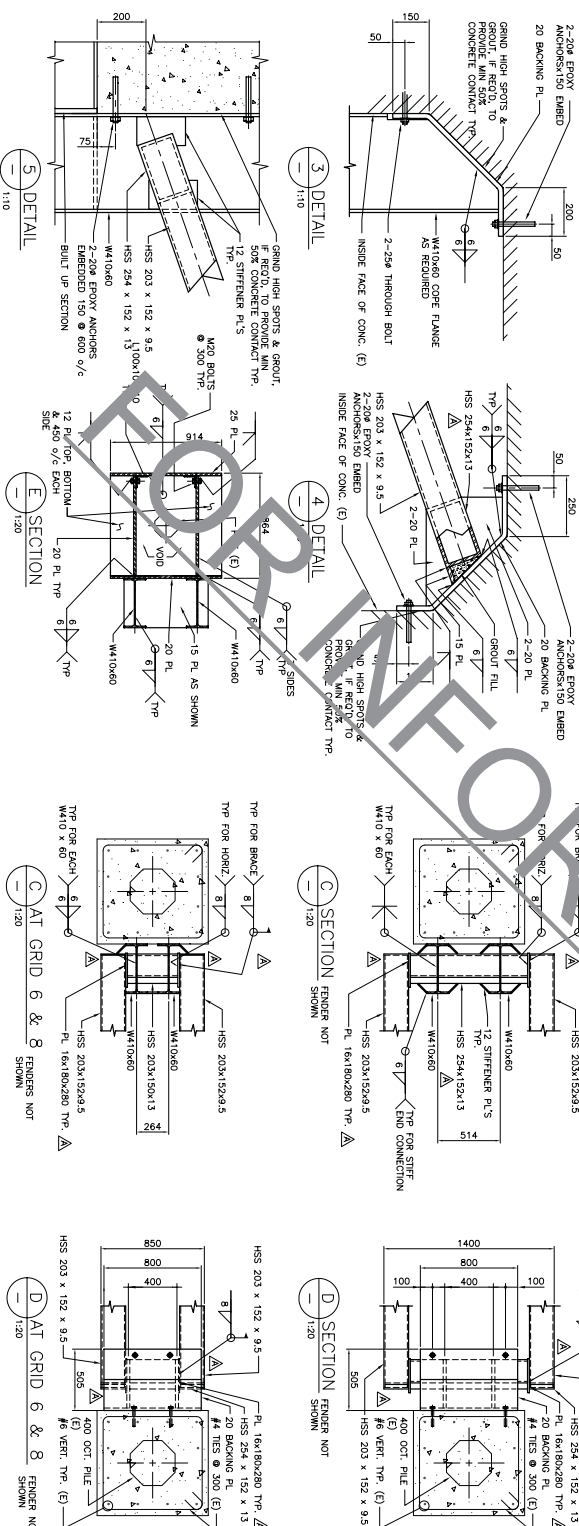
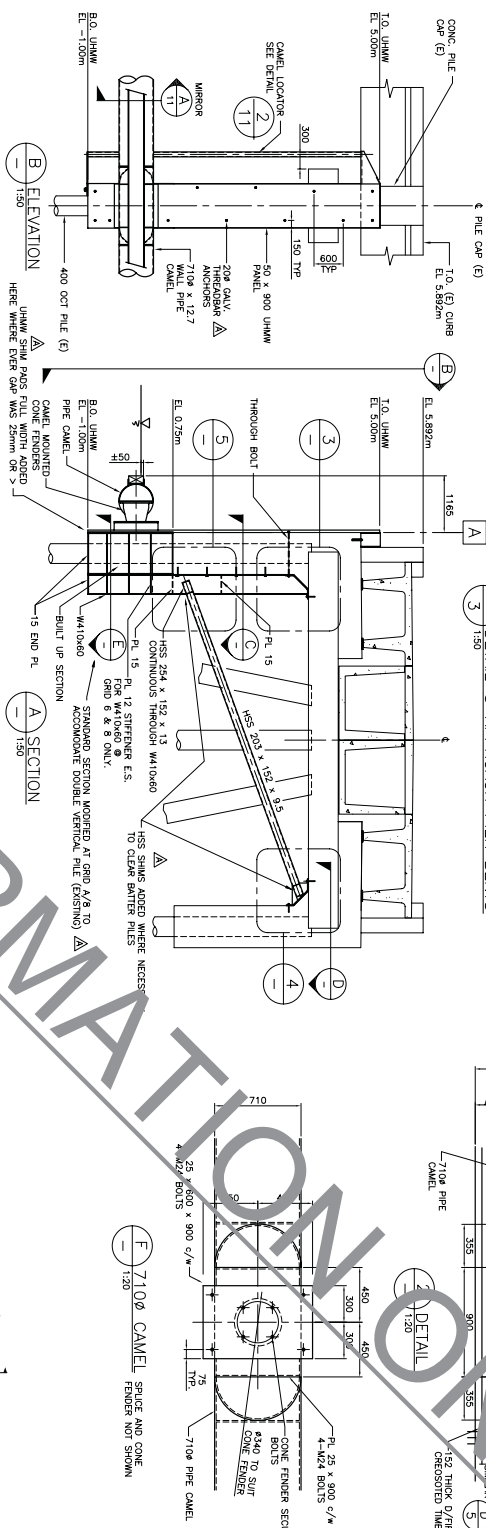
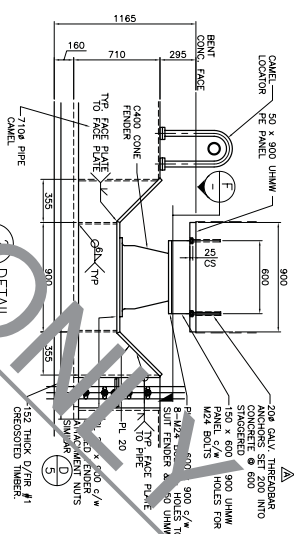
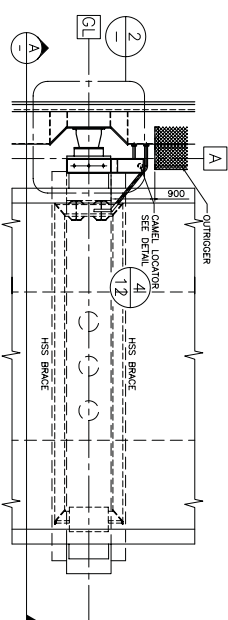
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C


GENERAL ARRANGEMENT DETAILS

003 A


Fisheries and Oceans Canada



number	revision	detail number	revision	detail
A	AS BUILD			DEC 4, 2006



A
B
C



A
B/C

A detail number
B source drawing no.
C detail on drawing no.

PATRICIA BAY, B.C.
INSTITUTE OF OCEAN SCIENCES
MAIN WHARF
FENDERING UPGRADE

DETAILS AT APPROACH BENTS

designated	MANAGED CONTRACTOR P. INC.	contract
dram	03.03.03	desaro
dram	AELIN DONNELLY	desaro
date	03.03.10	date
approved		approved
date		date
transfer		Summarized
PROJECT NUMBER	Administrateur de projets IPSCC	
project number	number du projet	
857033		
transferring number	numero du devis	rev

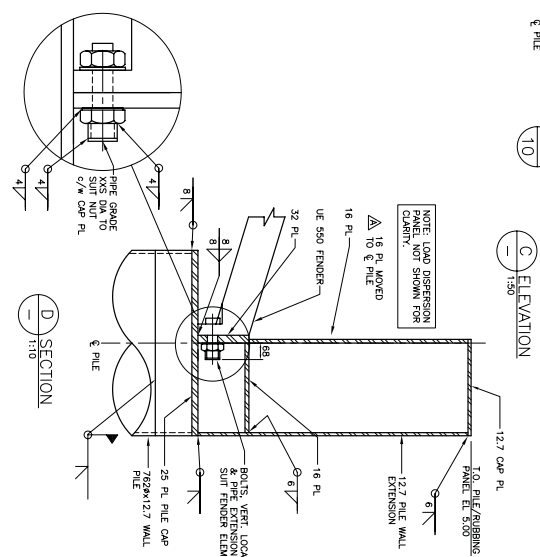
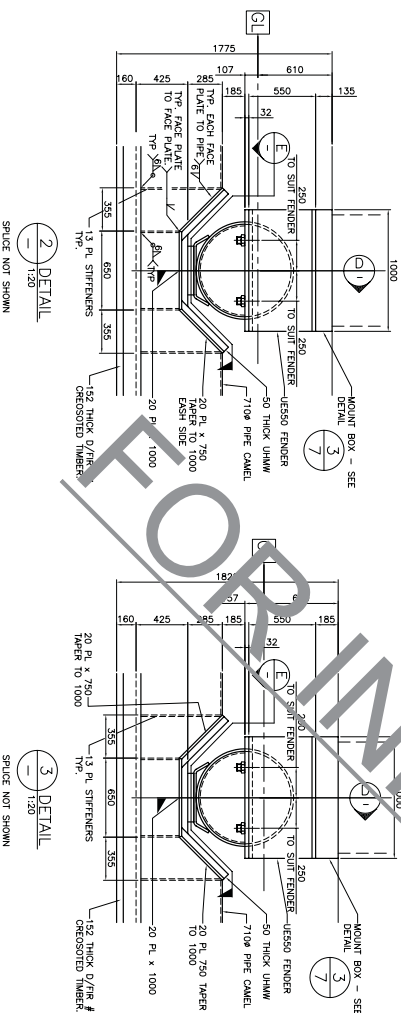
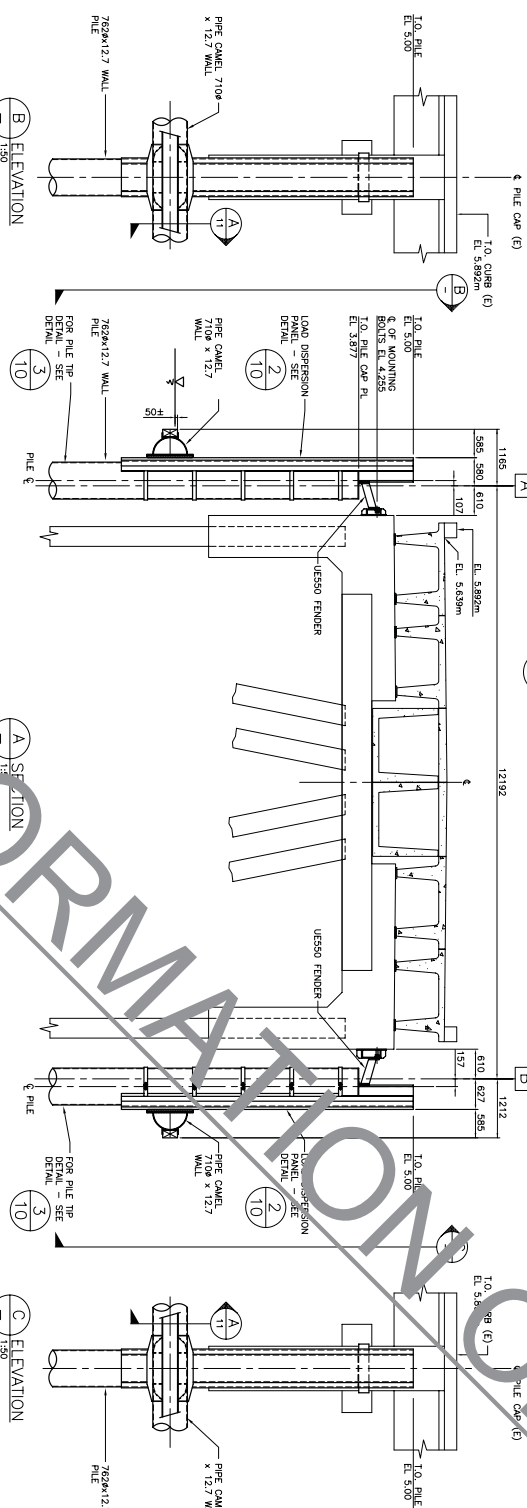
KM ENGINEERING PROJECT NO. - KM 04-03

number	revision	revision
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détail sur dessin no.


DETAILED AT PIER 1 BENIS

drawing number	numéro du
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KM Engineering Group Inc.

Consulting Engineers KM 04-2003
Suite 305 - 895 Fort Street, Victoria, B.C. V8W 1H7
TEL (250) 920-7979 FAX: (250) 920-7911
CAD FILE No. - SHEET 6
KM ENGINEERING PROJECT No. - KM 04-03

<p>A détail number number du détail</p> <p>B source drawing no. de dessin no.</p> <p>C detail on drawing no. détail sur dessin no.</p>		
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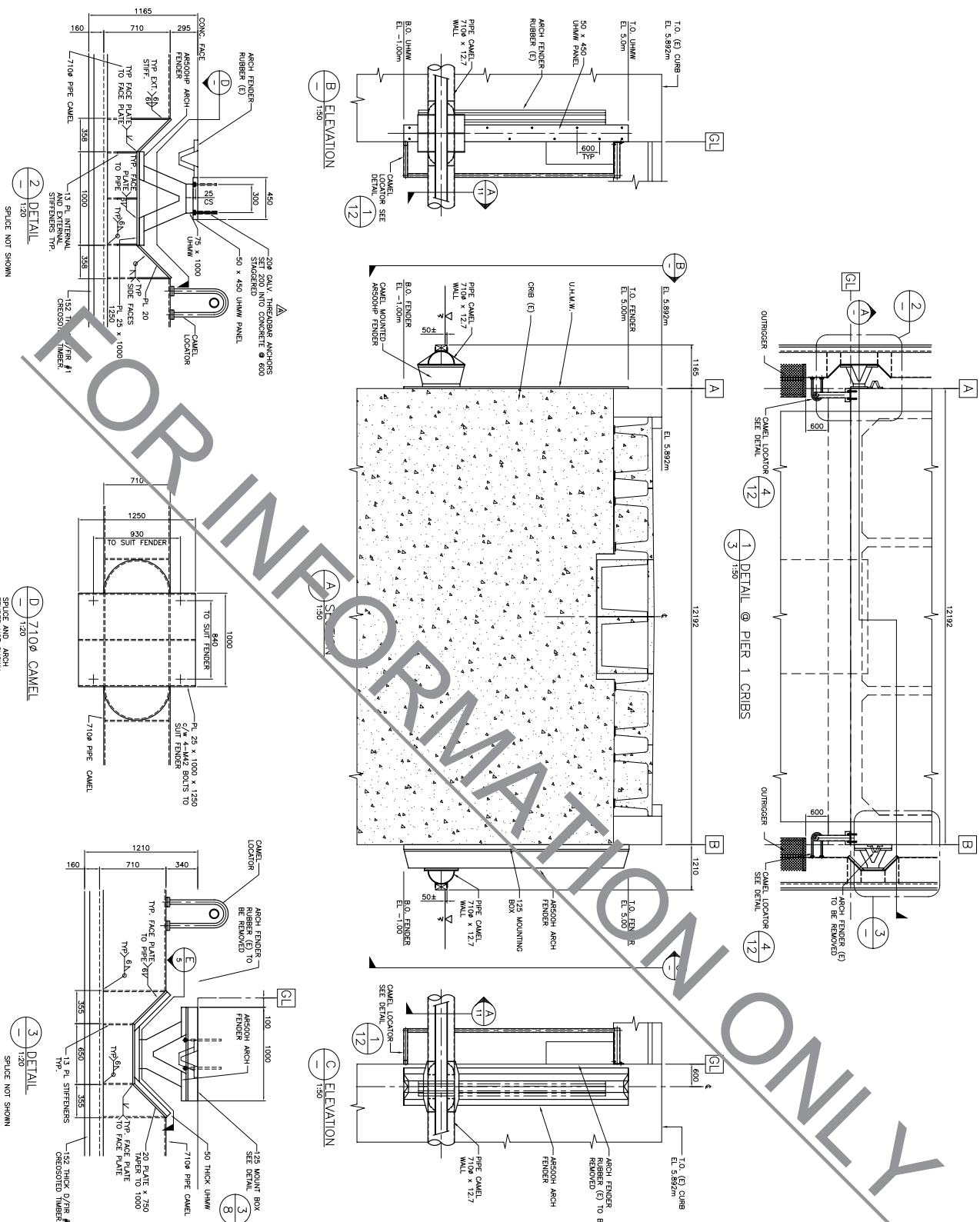
PATRICIA BAY, B.C.
INSTITUTE OF OCEAN SCIENCES
MAIN WHARF
FENDERING UPGRADE

DETAILS AT PIER 1 CRIBS

designer	MARCUS KENNEDY, P. ENG.	company
date	03.03.03	date
drawn	AILEEN DONNELLY	designed
date	03.03.10	date
approved		approved
data		data
Tender	Submission	
Project Manager	Administrateur de projets TP500	
Project number	numéro du projet	
853033		

PMOSC Project Manager	Administrateur de projets TPSC
project number	numéro du projet
853033	

Account number	Number on card	Rev
006		A



KM ENGINEERING PROJECT No. - KM 04-03



detail sur dessin no.

HENDERING UPGRADE

BENIS

853033

KM ENGINEERING PROJECT NO. - KM 04-03

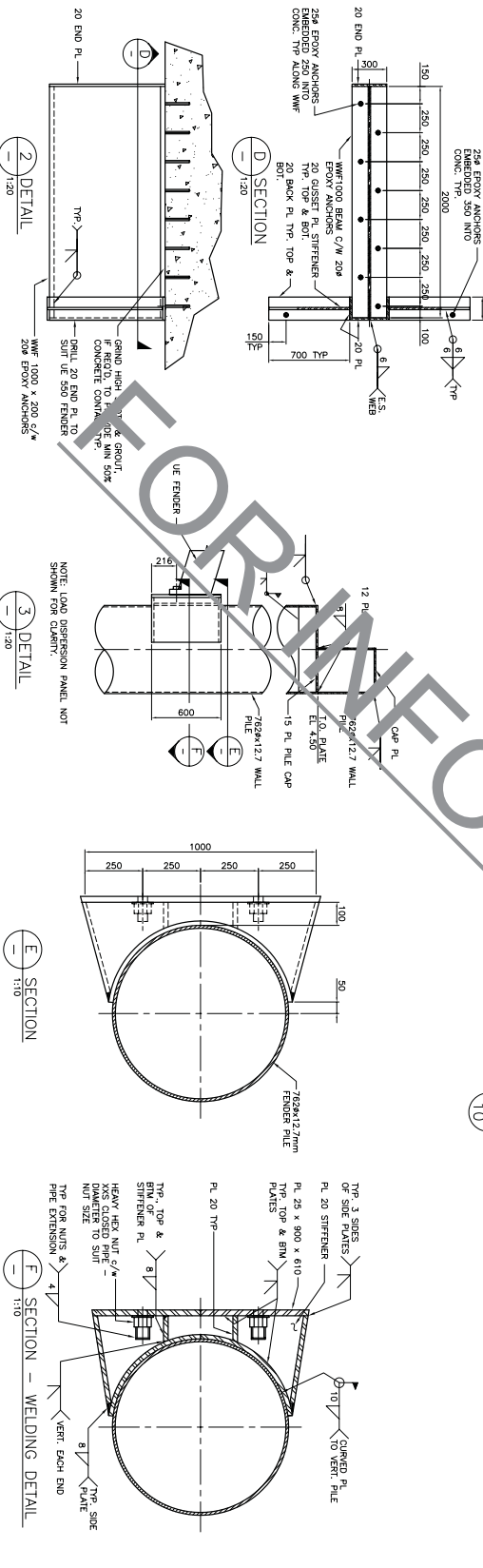



A source drawing no.
 de dessin no.

B detail sur drawing no.
 détail sur dessin no.

DETAILS AT PIER 2 CRIBS

drawing number	numéro du dessin	rev
009		A



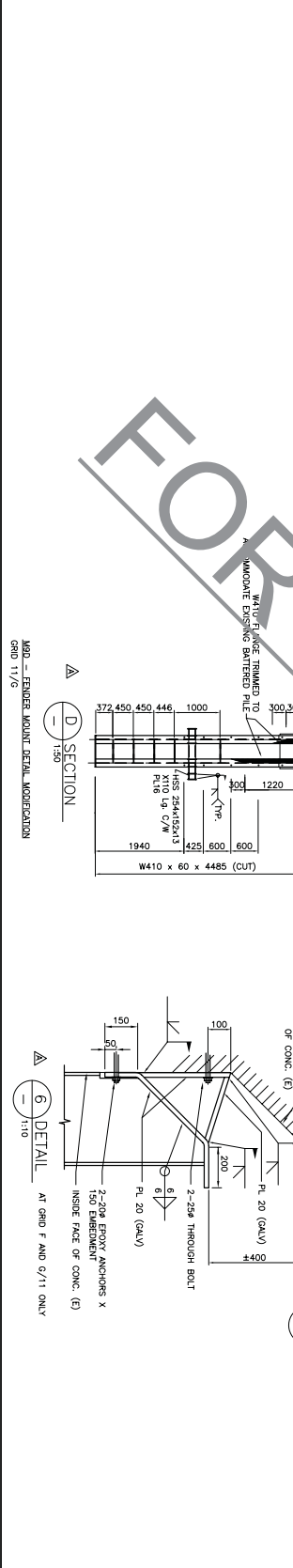
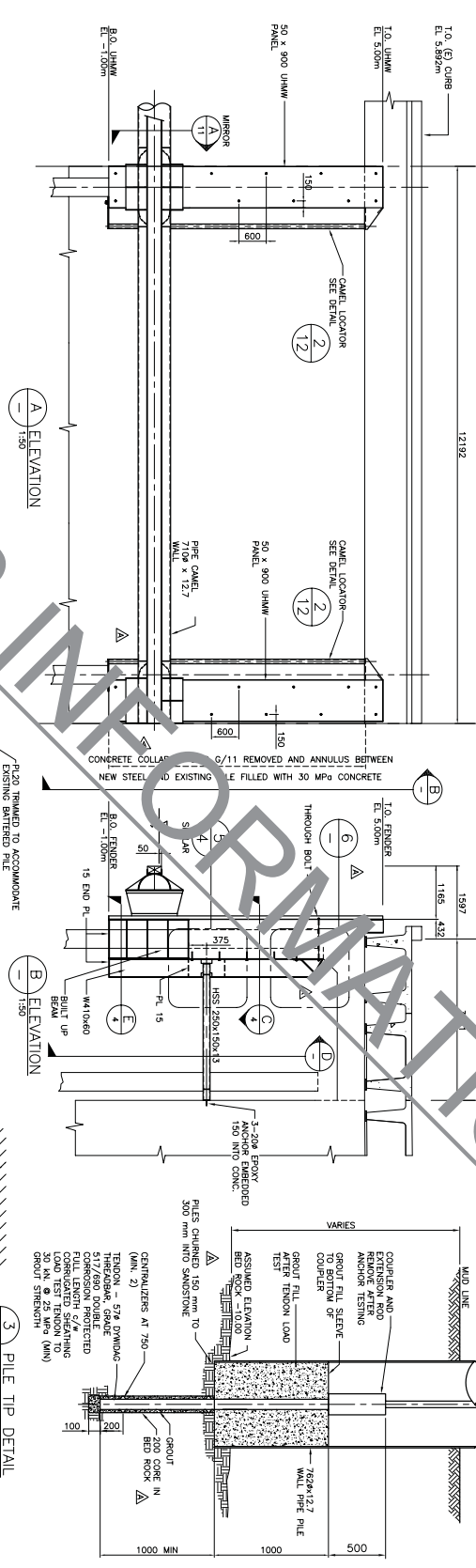
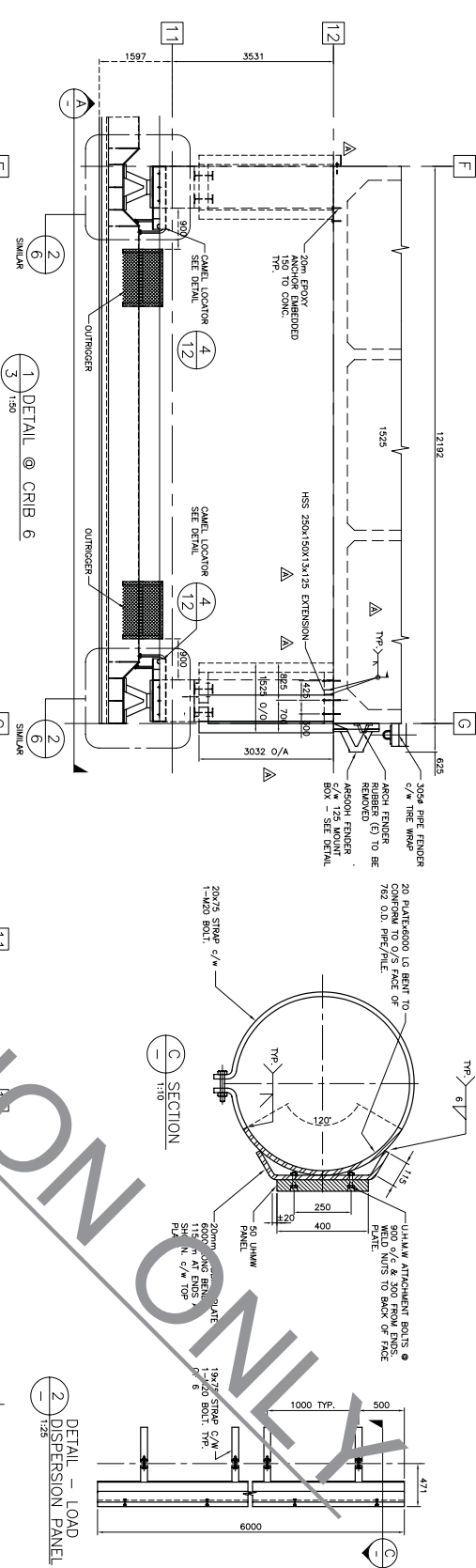
KM Engineering Group Inc.
Consulting Engineers
Suite 200 - 400 First Street, Victoria, B.C. V8W 1Y7
TEL: (250) 383-7278 FAX: (250) 383-7871
CND FILE No. - 34673 10
MID ENGINEERING PROJECT No. - KM 04-03

number	revision	date
A	AS BUILT	DEC. 5, 2004

PATRICIA BAY, B.C.
INSTITUTE OF OCEAN SCIENCES
MAIN WHARF
FENDERING UPGRADE

DETAILS AT CRIB 6

designed	checked	approved	date
WACHOET KOSMANA, P. ENG.	03.03.03	03.03.10	03.03.10
drawn	checked	approved	date
010	010	010	010
PROJECT MANAGER	ADMINISTRATIVE DE PROJECT	PROJECT MANAGER	ADMINISTRATIVE DE PROJECT
853033	853033	853033	853033
drawing number	numero du dessin	rev.	A
010	010	A	A



KM Engineering Group Inc.

Consulting Engineers
Suite 200 - 485 First Street, Victoria, B.C. V8W 1V7
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CND FILE No. - 46173 B
HM DRAWING PROJECT No. - HM 04-03

PROJECT PATRICK BAY, B.C. INSTITUTE OF OCEAN SCIENCES MAIN WHARF FENDERING UPGRADE

DETAILS AT CRIBS 1 & 6 ON GRID 13

drawn by: MACHOUEI KOSMANOV, P. ENG. date: 03.03.12

checked by: MACHOUEI KOSMANOV date: 03.03.12

approved by: [Signature] date: 03.03.12

drawn by: [Signature] date: 03.03.12

checked by: [Signature] date: 03.03.12

approved by: [Signature] date: 03.03.12

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approved by: [Signature] date: 03.03.12

drawn by: [Signature] date: 03.03.12

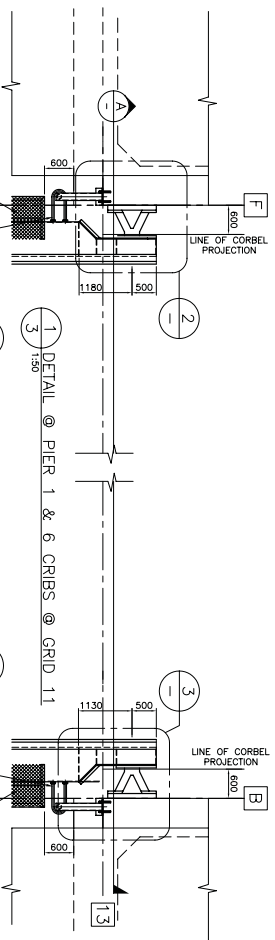
checked by: [Signature] date: 03.03.12

approved by: [Signature] date: 03.03.12

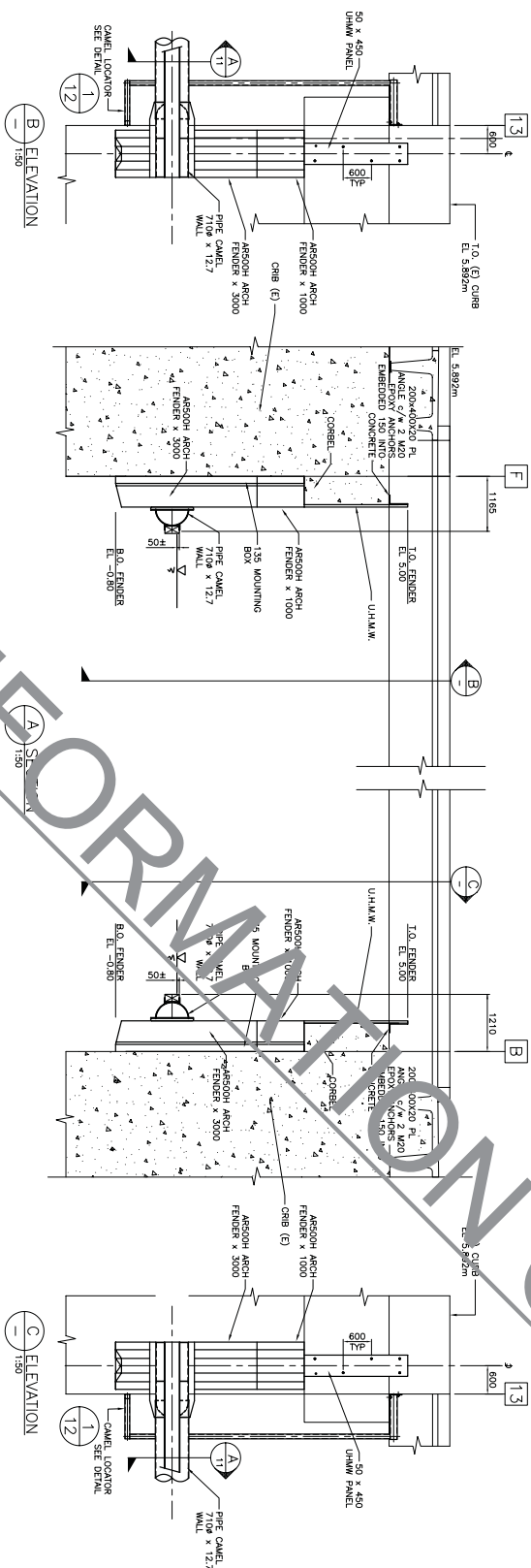
drawn by: [Signature] date: 03.03.12

checked by: [Signature] date: 03.03.12

approved by: [Signature] date: 03.03.12



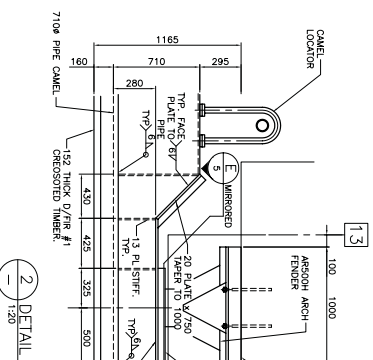
1 DETAIL @ PIER 1 & 6 CRIBS @ GRID 11



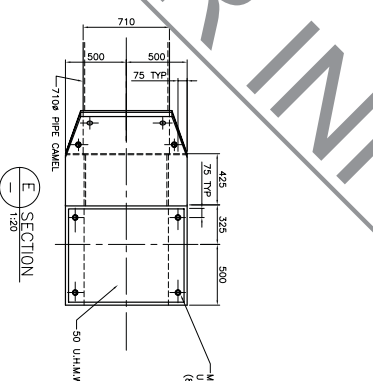
B ELEVATION

A SECTION

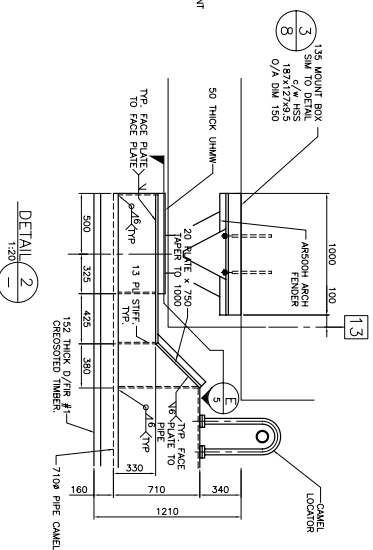
C ELEVATION



2 DETAIL



E SECTION



DETAIL 2

drawing number: 013

10-27-03