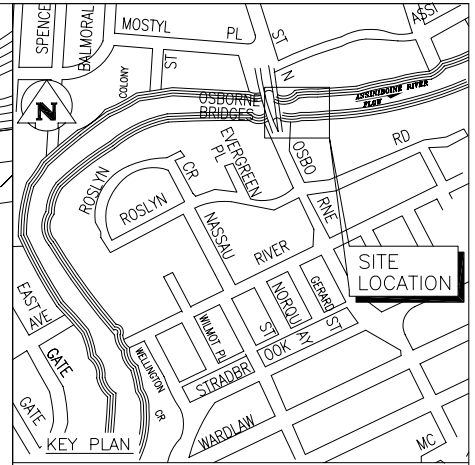
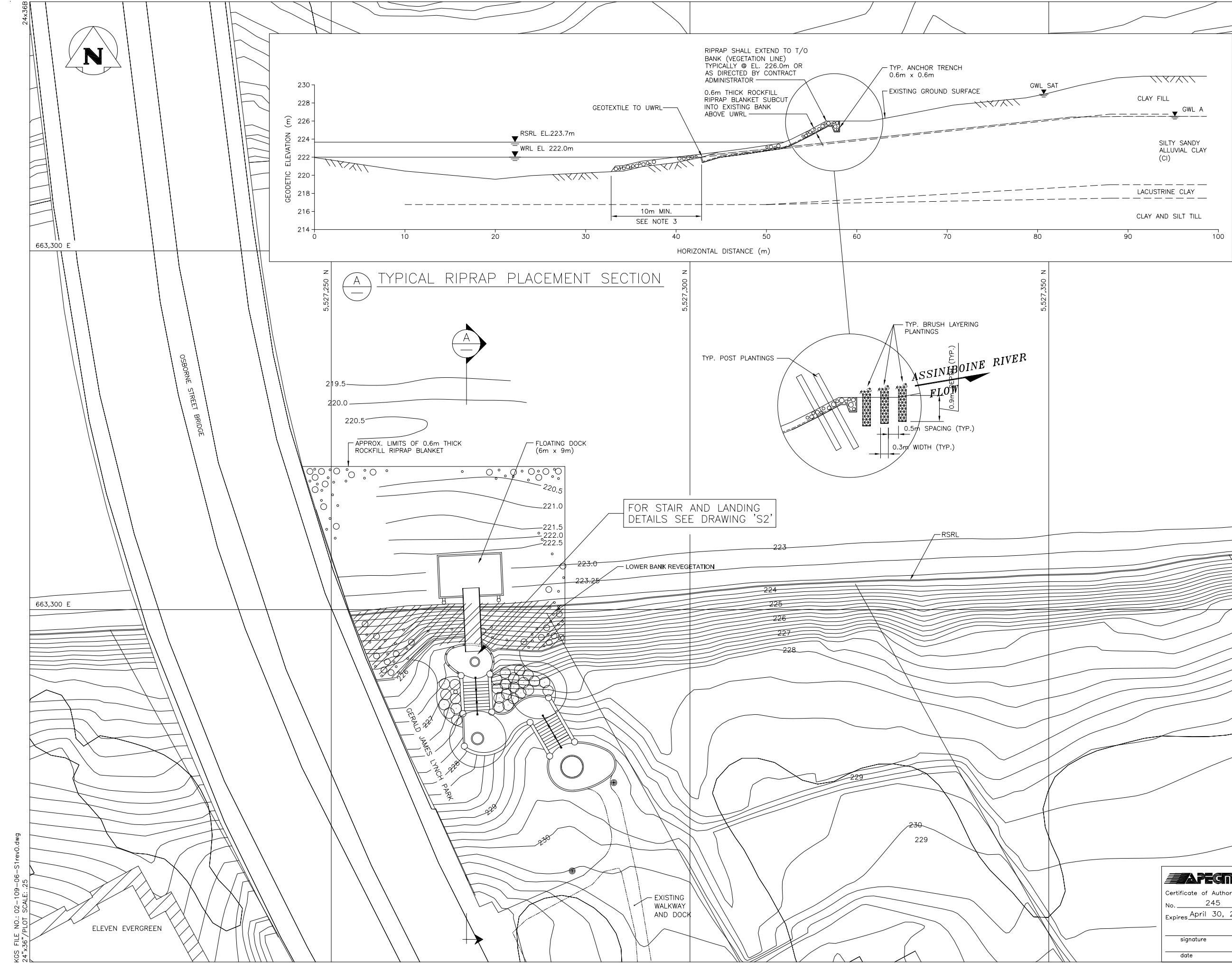


## APPENDIX F – DRAWING LIST

<b><u>DRAWING NAME</u></b>	<b><u>DRAWING TITLE</u></b>
S1	Existing Site Plan and General Arrangement
S2	Stairs and Landings Plan and Sections
S3	Dock Pipe Columns and Timber Pile Details
L1	Landscape Master General Layout Plan
L2	Layout Plan
L3	Grading Plan
	Osborne Street Dock Construction
	Osborne Street Dock Construction

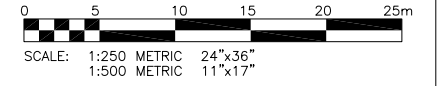


**LEGEND**

- GROUND SURFACE
- ASSUMED STRATIGRAPHIC CONTACT
- ▼ GWL A ASSUMED GROUNDWATER LEVEL
- RSRL REGULATED SUMMER RIVER LEVEL
- UWRL UNREGULATED WINTER RIVER LEVEL
- WRL WINTER RIVER LEVEL
- ▼ GWL SAT SATURATED GROUNDWATER LEVEL

**NOTES:**

1. CROSS SECTION BASED ON KGS GROUP SURVEY AND RIVER BOTTOM SOUNDINGS ON JANUARY 31, 2001.
2. GROUNDWATER LEVELS SHOWN WERE MEASURED ON FEBRUARY 9, 2001.
3. RIPRAP BLANKET SHALL BE PLACED A MINIMUM OF 10m INTO THE RIVER AS MEASURED FROM THE WINTER RIVER LEVEL BANK CONTACT.



0	16/08/02	ISSUED FOR TENDER	RJL
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NO.	D / M / Y	DESCRIPTION	BY
REVISIONS / ISSUE			
A		A. SECTION LETTER OR DETAIL NUMBER	
B		B. DRAWING WHERE SECTION OR DETAIL IS DRAWN	
		OR	
		DRAWING WHERE SECTION OR DETAIL WAS INDICATED	
		— SECTION OR DETAIL SHOWN ON SAME DRAWING	

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 Winnipeg Calgary Beijing  
 tel 204.927.3444  
 fax 204.927.3443

**KGS GROUP** CONSULTING ENGINEERS & PROJECT MANAGERS  
 WINNIPEG (204) 896-1209  
 THUNDER BAY (807) 345-2233

CLIENT: COALITION ACCES RIVIERE  
 RIVER ACCESS COALITION (CARRAC)

PROJECT: OSBORNE STREET CARRAC

P.D. NUMBER

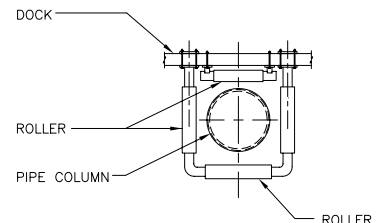
DWG. DESCRIPTION: OSBORNE STREET DOCK  
 EXISTING SITE PLAN AND  
 GENERAL ARRANGEMENT

**APEGM**  
 Certificate of Authorization  
 No. 245  
 Expires April 30, 2003  
 signature \_\_\_\_\_  
 date \_\_\_\_\_

DESIGNED BY: RJL DRAWN BY: JF  
 CHECKED BY: RJL  
 APPROVED: R.J. LONG  
 SCALE: AS NOTED DATE: APRIL 2002  
 KGS DWG. NO. 02-109-06  
 CLIENT PROJECT NO. \_\_\_\_\_ REV: 0

KGS FILE NO.: 02-109-06-S1rev0.dwg  
 24"x36" PLOT SCALE: 1:25

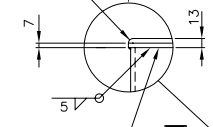




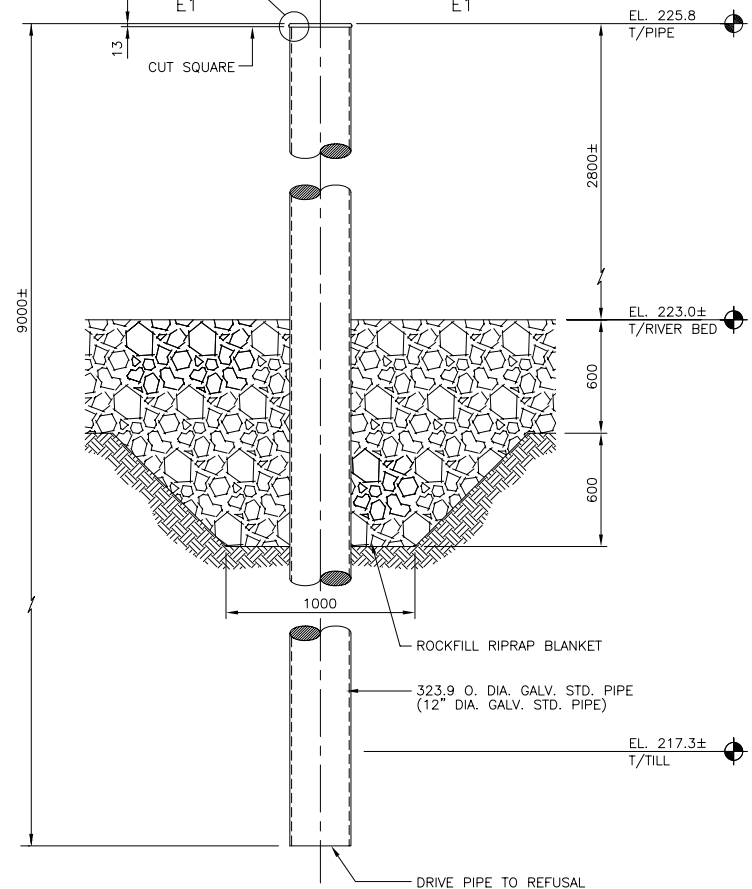
SECTION E1-E1  
SCALE 1:20  
(PROPOSED PIPE COLUMN CONNECTION DETAIL TO DOCK)

SHOP NOTE:  
GRIND ALL ROUGH EDGES SMOOTH  
THAT PERTRUDE OUTSIDE OF RADIUS  
AFTER WELDING HAS BEEN COMPLETED.

RADIUS PLATE  
ALL AROUND  
R=6mm



13mm THK. GALV. ROUND PLATE  
167mm RADIUS



PIPE COLUMN  
SCALE 1:20

FOUNDATIONS (DRIVEN TIMBER PILES)

- FOUNDATIONS SHALL BE DRIVEN TIMBER PILES AS SHOWN ON DRAWINGS.
- PILES SHALL BE DRILLED TO REFUSAL ON TILL.
- TIMBER PILES SHALL BE IN ACCORDANCE WITH CAN3-056 (LATEST) AND PRESSURE TREATED IN ACCORDANCE WITH CAN/CSA-080 (LATEST).
- THE PILING CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THE EXISTENCE AND LOCATION OF ALL UNDERGROUND SERVICES IN PILING AREA WHETHER SHOWN OR NOT. EXPOSE ALL SERVICES CLOSE TO PILING AS REQUIRED.
- PILES SHALL NOT BE MORE THAN 50mm OUT OF POSITION Laterally AT THE TOP AND NOT MORE THAN 2% OUT OF PLUMB.
- SPLIT OR SHATTERED PILES SHALL BE REJECTED.
- DO NOT SPLICE PILES WITHOUT APPROVAL OF THE DESIGN ENGINEER.
- PRE-BORE ALL PILES 3000mm.
- RESET PILES LIFTED DURING DRIVING OF ADJACENT PILES.
- CUT-OF PILES NEAT AND SQUARE AT ELEVATIONS INDICATED. TREAT EXPOSED ENDS WITH PRESERVATIVE.

CONCRETE

- CONCRETE MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH CAN/CSA-A23.1-M90. SEE BELOW FOR MIX REQUIREMENTS.
- CEMENT TYPE SHALL BE AS NOTED IN INDIVIDUAL MIX DESIGNS TO CAN/CSA-A5 (LATEST).
- MIX WATER TO BE POTABLE.
- ADMIXTURES SHALL NOT BE USED UNLESS SPECIFIED HEREIN OR APPROVED BY THE DESIGN ENGINEER. CALCIUM CHLORIDE SHALL NOT BE USED.
- DESIGN, FABRICATE AND ERECT FORMWORK/SHORING IN ACCORDANCE WITH CAN/CSA-S269.3-M92. ALLOW SUFFICIENT CONCRETE CURING TIME PRIOR TO REMOVAL.
- PLACE AND SECURE ALL EMBEDDED ANCHORS, WELD PLATES, SLEEVES, BUCKS, DOWELS, INSERTS, WATERSTOPS, ETC., PRIOR TO POURING CONCRETE. CO-ORDINATE WITH ALL TRADES FOR EMBEDDING OF ALL OTHER, CONDUIT, SERVICES, BLOCKING, ETC.
- LOCATE AND FABRICATE ALL CONSTRUCTION JOINTS, CONTROL JOINTS AND EXPANSION JOINTS AS DETAILED ON THE DRAWINGS. JOINTS NOT SHOWN SHALL BE APPROVED BY THE DESIGN ENGINEER PRIOR TO THE PLACEMENT OF CONCRETE.
- PROVIDE ADEQUATE COLD/HOT WEATHER PROTECTION AS REQUIRED DURING CURING PERIOD.

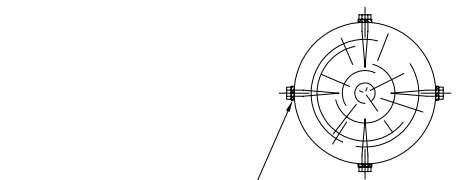
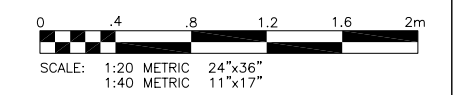
CONCRETE MIX DESIGNS

GRADE BEAMS	28 DAY COMP. STRENGTH	30 MPa
STAIRS & CURBS	CEMENT	TYPE 10
	W/C RATIO	0.45
	AGGREGATE SIZE (MAX.)	20mm
	ENTRAINED AIR	4%-6%
	SLUMP (MAX.)	90mm (±10mm)

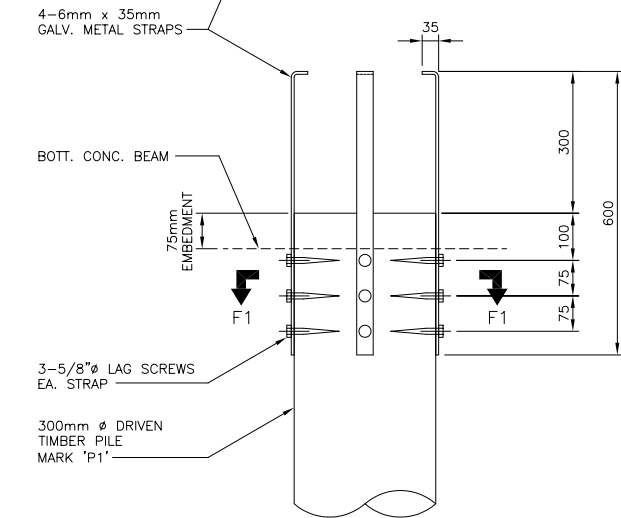
REINFORCING STEEL

- REINFORCING STEEL TO BE NEW DEFORMED BILLET STEEL BARS CONFORMING TO CAN/CSA G30.18-M92. GRADES TO BE: 400 MPa FOR 15M BARS AND LARGER; 300 MPa FOR 10M BARS.
- SUBMIT SHOP DRAWINGS WHICH CLEARLY INDICATE BAR SIZES, SPACINGS, LOCATIONS & QUANTITIES OF REINFORCING STEEL, BENDING & CUTTING SCHEDULES, SUPPORTING & SPACING DEVICES, ETC. FOR REVIEW PRIOR TO FABRICATION. DETAIL, FABRICATE AND PLACE REINFORCING IN ACCORDANCE CSA A23.1, CSA A23.3 AND ACI 315-80 "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES" EXCEPT AS NOTED. LAP STEEL 36 BAR DIAMETERS (MINIMUM) UNLESS NOTED OTHERWISE.
- LAP BEAM AND STRUCTURAL SLAB TOP REINFORCING AT CENTER SPAN, AND BOTTOM STEEL AT SUPPORTS.
- PROVIDE AT EACH FACE, 2-15M EXTRA BARS ALONG ALL SIDES, AND 2-15M DIAGONAL BARS AT ALL CORNERS OF OPENINGS UNLESS NOTED. PROJECT ALL BARS 24" PAST CORNERS.
- REINFORCING STEEL SHALL BE CLEAN, FREE OF RUST, DIRT, LOOSE SCALE, OIL, GREASE OR ANY OTHER MATERIAL WHICH WOULD REDUCE BOND WITH THE CONCRETE.
- TIE, SUPPORT AND SPACE ALL REINFORCING STEEL WITH PROPER APPROVED DEVICES DESIGNED FOR USE IN REINFORCED CONCRETE, TO PREVENT DISPLACEMENT OF REINFORCING AND ENSURE SPECIFIED CONCRETE COVER.
- PROVIDE MINIMUM CONCRETE COVER FOR REINFORCING STEEL AS FOLLOWS:

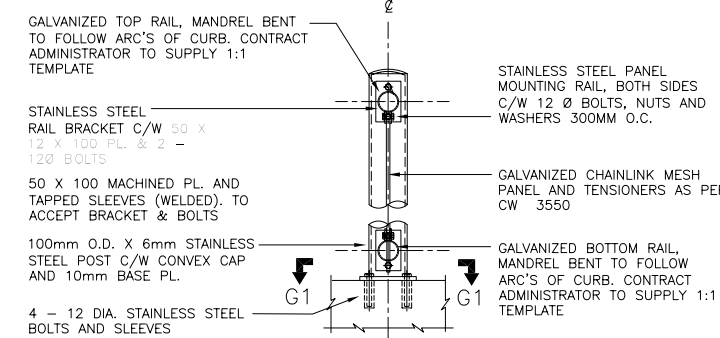
GRADE BEAMS (SIDES)	40mm
GRADE BEAMS (BOTTOM)	75mm
STRUCTURAL SLAB (TOP & BOTTOM)	25mm



SECTION F1-F1  
SCALE 1:50



TYP. TIMBER DRIVEN PILE  
SCALE 1:50



FENCE  
SCALE: 1:10

SECT. G1-G1

1	19/08/02	GENERAL REVISION TO PIPE COLUMN DETAIL	RJL
0	16/08/02	ISSUED FOR TENDER	RJL

NO.	D / M / Y	DESCRIPTION	BY
REVISIONS / ISSUE			
A		A. SECTION LETTER OR DETAIL NUMBER	
B		B. DRAWING WHERE SECTION OR DETAIL IS DRAWN	
		OR	
		DRAWING WHERE SECTION OR DETAIL WAS INDICATED	
		— SECTION OR DETAIL SHOWN ON SAME DRAWING	



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THUNDER BAY (807) 345-2233

CLIENT: COALITION ACCES RIVIERE RIVER ACCESS COALITION (CARRAC)

PROJECT: OSBORNE STREET CARRAC

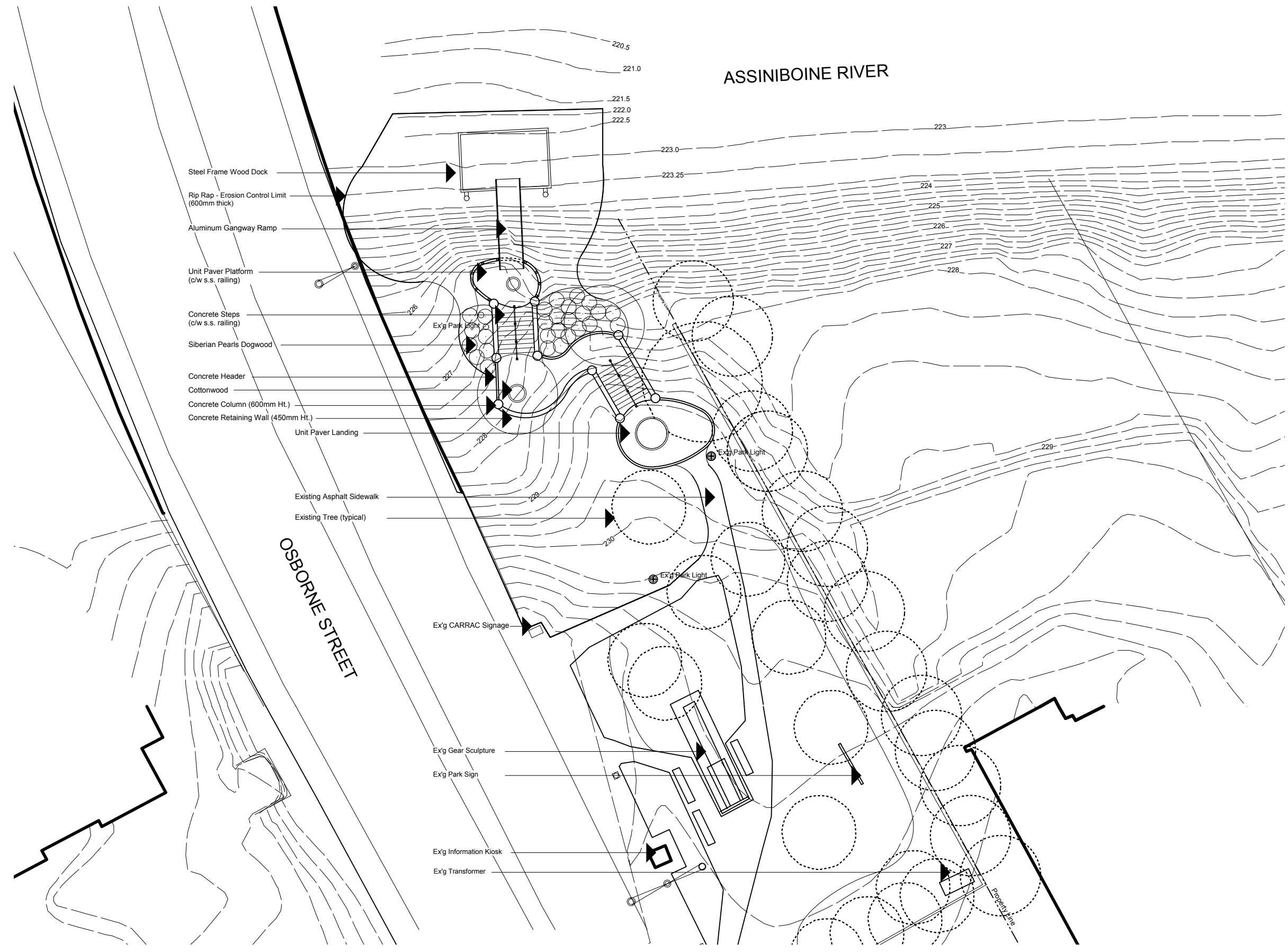
P.D. NUMBER

DWG. DESCRIPTION: OSBORNE STREET DOCK DOCK PIPE COLUMNS AND TIMBER PILE DETAILS



DESIGNED BY: RJL	DRAWN BY: JF
CHECKED BY: RJL	CHECKED BY:
APPROVED:	
SCALE: AS NOTED	DATE: APRIL 2002
KGS DWG. NO. 02-109-06	S3
CLIENT PROJECT NO.	REV: 1

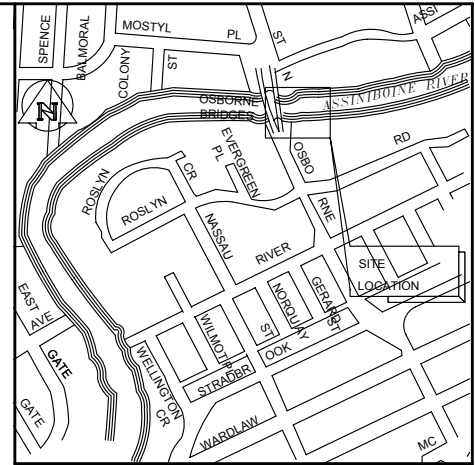
SMM FILE NO.: TX17



- Steel Frame Wood Dock
- Rip Rap - Erosion Control Limit (600mm thick)
- Aluminum Gangway Ramp
- Unit Paver Platform (c/w s.s. railing)
- Concrete Steps (c/w s.s. railing)
- Siberian Pearls Dogwood
- Concrete Header
- Cottonwood
- Concrete Column (600mm Ht.)
- Concrete Retaining Wall (450mm Ht.)
- Unit Paver Landing
- Existing Asphalt Sidewalk
- Existing Tree (typical)
- Ex'g CARRAC Signage
- Ex'g Gear Sculpture
- Ex'g Park Sign
- Ex'g Information Kiosk
- Ex'g Transformer

ASSINIBOINE RIVER

OSBORNE STREET



KEY PLAN

NOTES:

1. ANY DISCREPANCIES BETWEEN ENGINEERING AND LANDSCAPE ARCHITECTURE DRAWINGS SHALL BE REPORTED TO THE CONTRACT ADMINISTRATOR FOR CLARIFICATION PRIOR TO CONSTRUCTION.

NO.	D / M / Y	DESCRIPTION	BY
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REVISIONS / ISSUE	
A	A. SECTION LETTER OR DETAIL NUMBER
B	B. DRAWING WHERE SECTION OR DETAIL IS DRAWN OR DRAWING WHERE SECTION OR DETAIL WAS INDICATED
— SECTION OR DETAIL SHOWN ON SAME DRAWING	

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 landscape architecture urban design golf course architecture  
 8th floor 44 princess street, winnipeg, mb. r2b 1k2, tel: 204.943.4144 fax: 204.943.4126

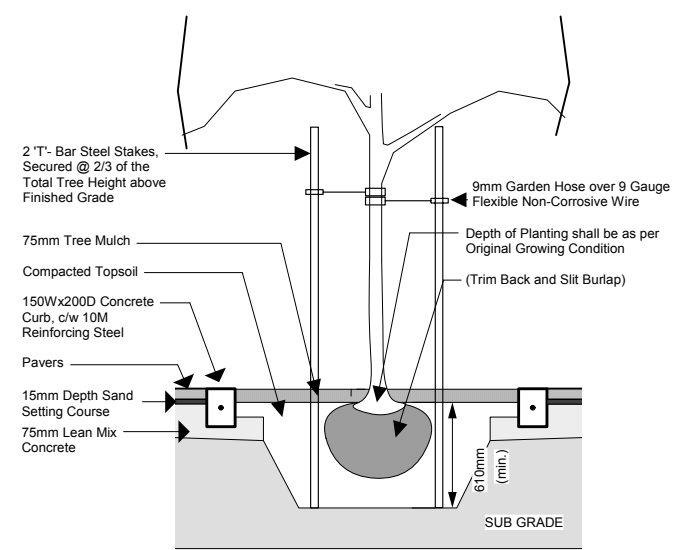
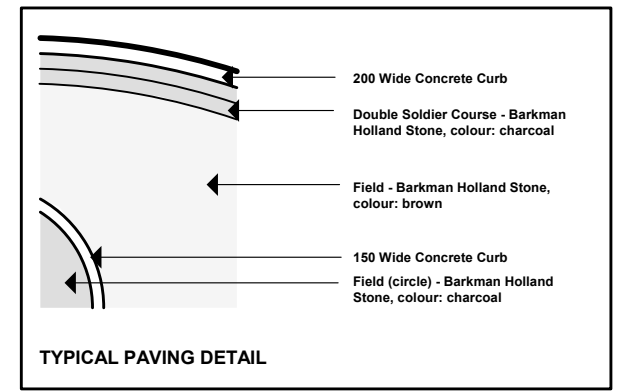
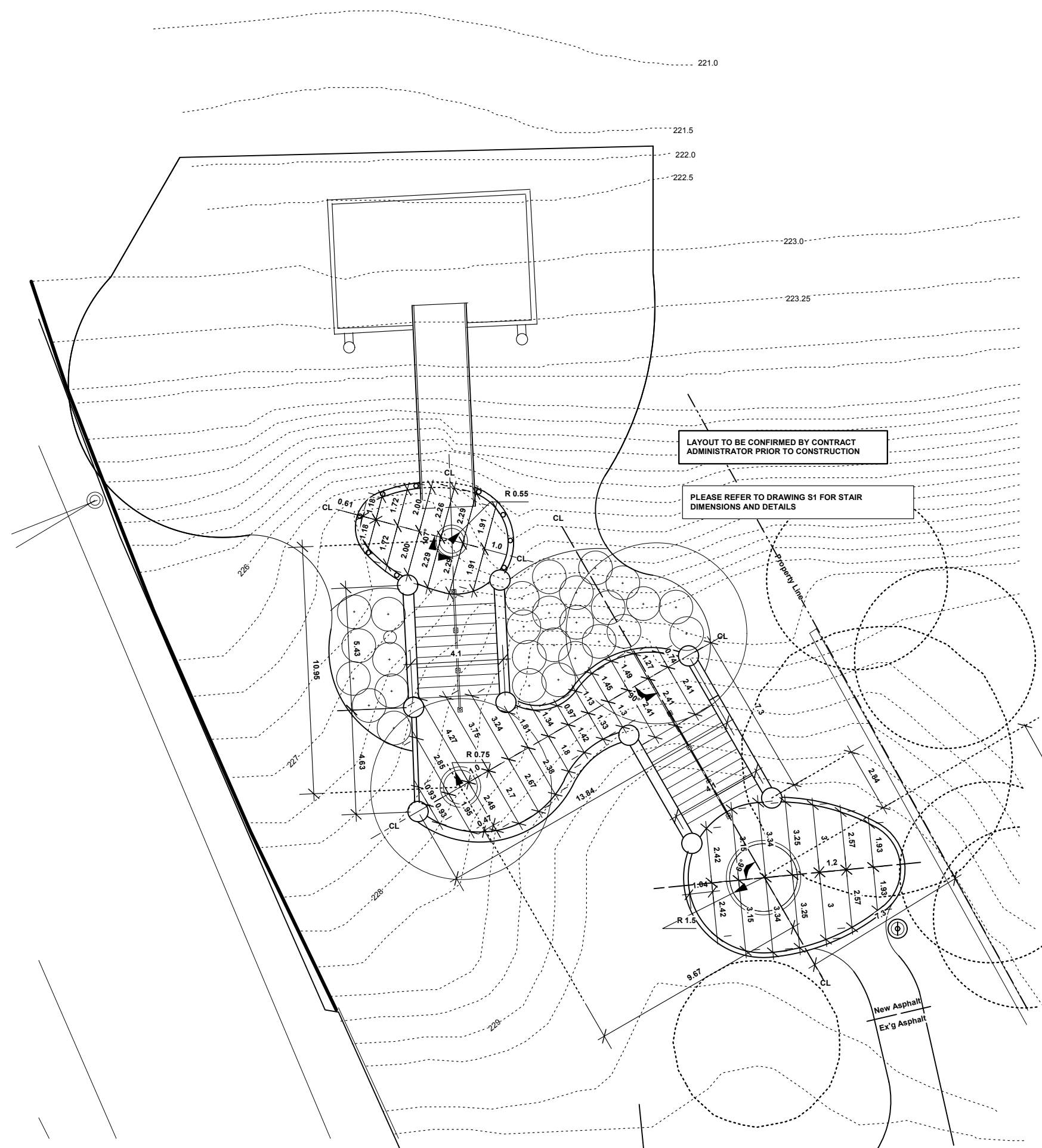
CLIENT:  
**COALITION ACCES RIVIERE RIVER ACCESS COALITION (CARRAC)**

PROJECT:  
**OSBORNE - GERALD LYNCH PARK / CARRAC**

DWG. DESCRIPTION:  
**LANDSCAPE MASTER GENERAL LAYOUT PLAN**

LANDSCAPE ARCHITECT'S STAMP	DESIGNED BY: D.M.	DRAWN BY: D.M.
	CHECKED: D.M.	CHECKED:
	APPROVED: D.M.	
SCALE: 1 : 400 (METRIC)	DATE: June 01 /2002	
SMM DWG NO. OR FILE REFERENCE		L1

CLIENT DWG. NO.	REV: 0
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NOTES:  
1. ANY DISCREPANCIES BETWEEN ENGINEERING AND LANDSCAPE ARCHITECTURE DRAWINGS SHALL BE REPORTED TO THE CONTRACT ADMINISTRATOR FOR CLARIFICATION PRIOR TO CONSTRUCTION.

NO.	D/M/Y	DESCRIPTION	BY
<b>REVISIONS / ISSUE</b>			
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B. DRAWING WHERE SECTION OR DETAIL IS DRAWN OR			
DRAWING WHERE SECTION OR DETAIL WAS INDICATED			
— SECTION OR DETAIL SHOWN ON SAME DRAWING			

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CLIENT:  
**COALITION ACCES RIVIERE RIVER ACCESS COALITION (CARRAC)**

PROJECT:  
**OSBORNE - GERALD LYNCH PARK / CARRAC**

DWG. DESCRIPTION:  
**LAYOUT PLAN**

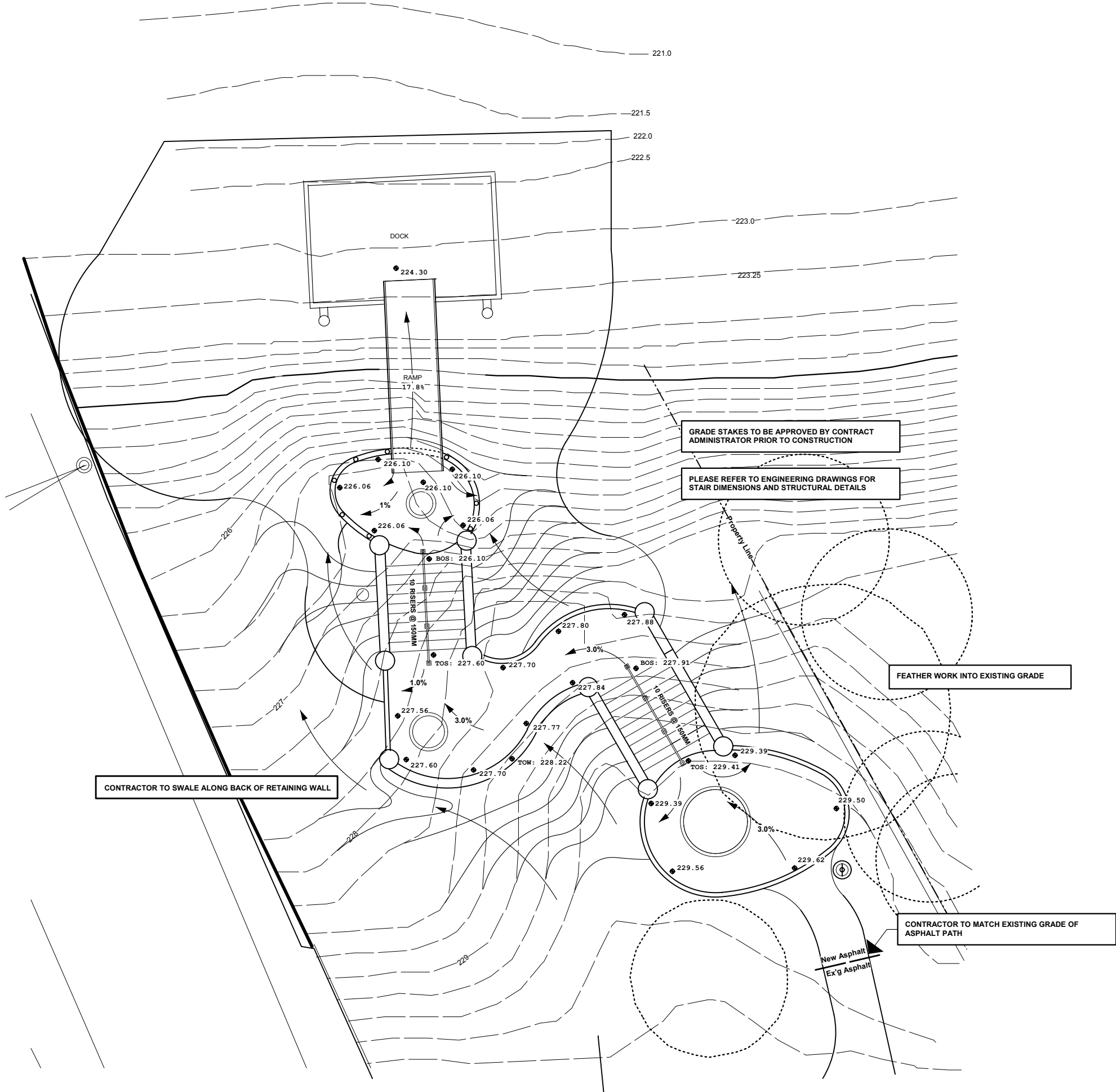
DESIGNED BY: D.M.	DRAWN BY: D.M.
CHECKED BY:	CHECKED BY:
APPROVED BY: D.M.	
SCALE: 1:200 (METRIC)	DATE: June 01/2002
SMM DWG NO. OR FILE REFERENCE	

CLIENT DWG. NO.	REV.
	<b>0</b>

SMM FILE NO.: 11TX17

NOTES:

1. ANY DISCREPANCIES BETWEEN ENGINEERING AND LANDSCAPE ARCHITECTURE DRAWINGS SHALL BE REPORTED TO THE CONTRACT ADMINISTRATOR FOR CLARIFICATION PRIOR TO CONSTRUCTION.



NO.	D/M/Y	DESCRIPTION	BY
<b>REVISIONS / ISSUE</b>			
A. SECTION LETTER OR DETAIL NUMBER			
B. DRAWING WHERE SECTION OR DETAIL IS DRAWN OR DRAWING WHERE SECTION OR DETAIL WAS INDICATED			
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 8th floor 44 princess street, winnipeg, mb., r3b 1x2, tel: 204-943-4144 fax: 204-943-4126

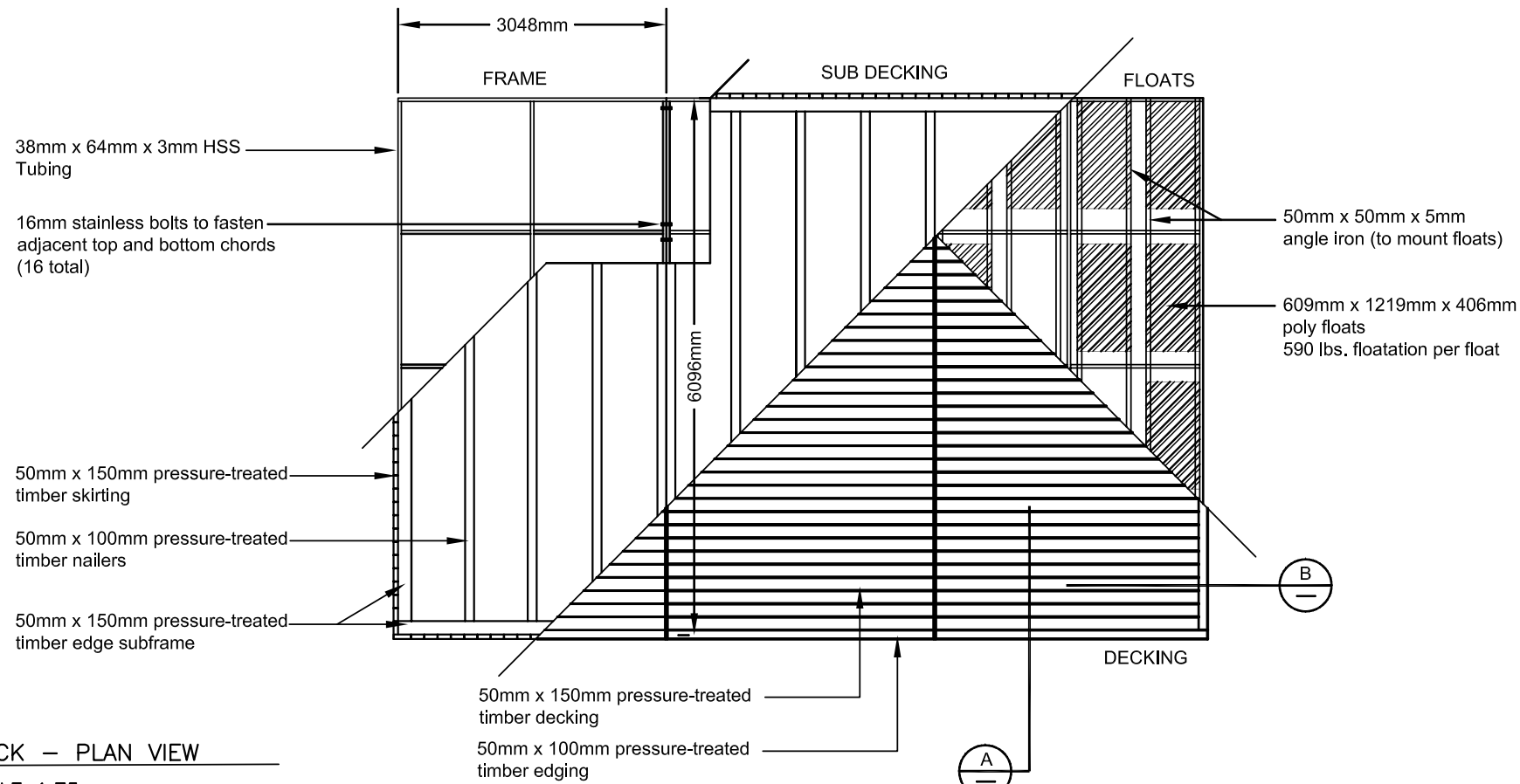
CLIENT:  
**COALITION ACCES RIVIERE RIVER ACCESS COALITION (CARRAC)**

PROJECT:  
**OSBORNE - GERALD LYNCH PARK / CARRAC**

DWG. DESCRIPTION:  
**GRADING PLAN**

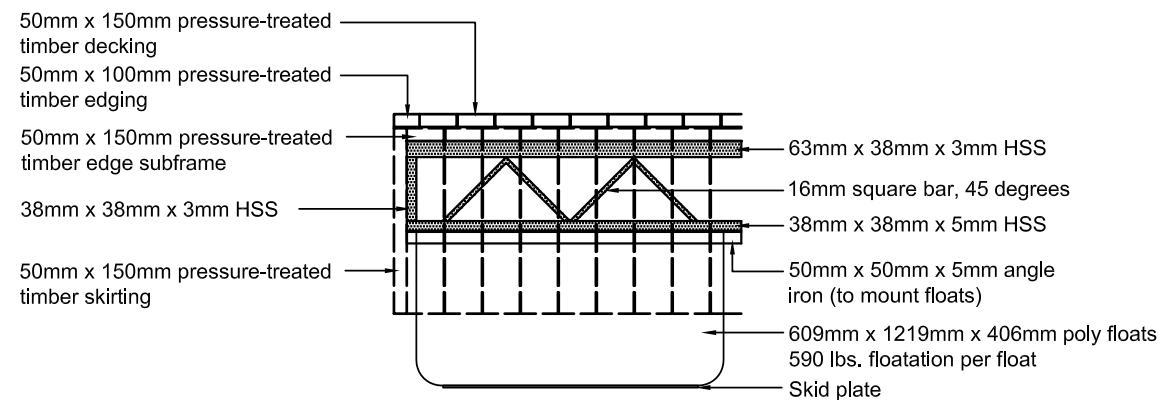
LANDSCAPE ARCHITECT'S STAMP	DESIGNED BY: D.M.	DRAWN BY: D.M.
	APPROVED: D.M.	CHECKED:
	SCALE: 1:200 (METRIC)	DATE: June 01/2002
	SMM DWG NO. OR FILE REFERENCE	

CLIENT DWG. NO. **L3** REV: **0**

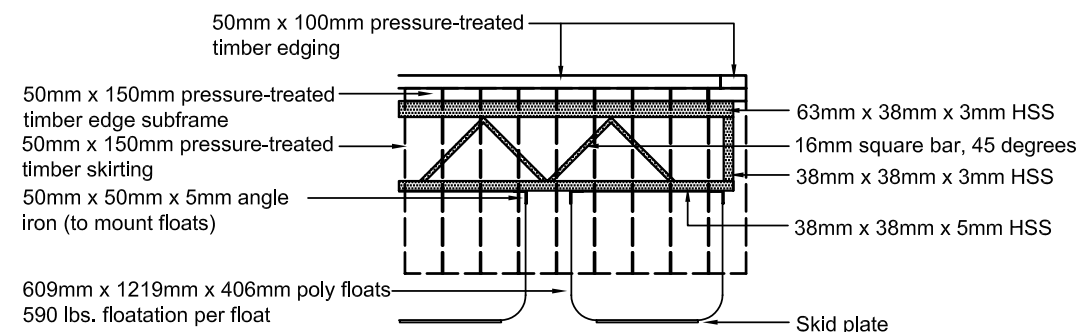


1 DOCK - PLAN VIEW  
SCALE 1:75

- NOTES:
1. Screws fastening decking to nailers - #8 x 76mm gold
  2. All welds between cords of trusses groove welded
  3. All steel hot-dipped galvanized
  4. Welding shall conform to CSA W59
  5. Nailers attached to truss chords using #10 stainless steel plated self-tapping screws at 609mm O.C. max.



A DOCK - SECTION A  
SCALE 1:30

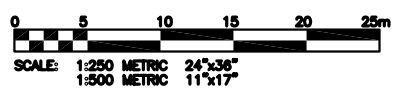


B DOCK - SECTION B  
SCALE 1:30



- LEGEND
- GROUND SURFACE
  - ASSUMED STRATIGRAPHIC CONTACT
  - GWL A ASSUMED GROUNDWATER LEVEL
  - RSRL REGULATED SUMMER RIVER LEVEL
  - UWRL UNREGULATED WINTER RIVER LEVEL
  - WRL WINTER RIVER LEVEL
  - GWL SAT SATURATED GROUNDWATER LEVEL

- NOTES:
1. CROSS SECTION BASED ON KGS GROUP SURVEY AND RIVER BOTTOM SOUNDINGS ON JANUARY 31, 2001.
  2. GROUNDWATER LEVELS SHOWN WERE MEASURED ON FEBRUARY 9, 2001.
  3. RIPRAP BLANKET SHALL BE PLACED A MINIMUM OF 10m INTO THE RIVER AS MEASURED FROM THE WINTER RIVER LEVEL BANK CONTACT.



0 16/06/02 ISSUED FOR TENDER

NO.	D / M / Y	DESCRIPTION	BY
REVISIONS / ISSUE			
A		A. SECTION LETTER OR DETAIL NUMBER IS DRAWN	A
B		B. DRAWING WHERE SECTION OR DETAIL WAS INDICATED	
		- SECTION OR DETAIL SHOWN ON SAME DRAWING	



CLIENT:  
COALITION ACCES RIVIERE  
RIVER ACCESS COALITION (CARRAC)

PROJECT:  
OSBORNE STREET CARRAC

P.D. NUMBER

DWG. DESCRIPTION:  
OSBORNE STREET DOCK  
DOCK CONSTRUCTION

DESIGNED BY: DKM	DRAWN BY: CLA
CHECKED:	CHECKED:
APPROVED:	
SCALE: AS NOTED	DATE: JANUARY 2003
KGS DWG. NO. DWG_NO	DWG
CLIENT PROJECT NO.	REV





**LEGEND**

- GROUND SURFACE
- ASSUMED STRATIGRAPHIC CONTACT
- GWL A ASSUMED GROUNDWATER LEVEL
- RSRL REGULATED SUMMER RIVER LEVEL
- UWRL UNREGULATED WINTER RIVER LEVEL
- WRL WINTER RIVER LEVEL
- GWL SAT SATURATED GROUNDWATER LEVEL

**NOTES:**

- CROSS SECTION BASED ON KGS GROUP SURVEY AND RIVER BOTTOM SOUNDINGS ON JANUARY 31, 2001.
- GROUNDWATER LEVELS SHOWN WERE MEASURED ON FEBRUARY 9, 2001.
- RIPRAP BLANKET SHALL BE PLACED A MINIMUM OF 10m INTO THE RIVER AS MEASURED FROM THE WINTER RIVER LEVEL BANK CONTACT.

0 5 10 15 20 25m  
SCALE: 1:250 METRIC 24"x36"  
1:500 METRIC 11"x17"

0 16/06/02 ISSUED FOR TENDER

NO.	D / M / Y	DESCRIPTION	BY
REVISIONS / ISSUE			
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B		B. DRAWING WHERE SECTION OR DETAIL WAS INDICATED	
— SECTION OR DETAIL SHOWN ON SAME DRAWING			

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fax 204.927.3443

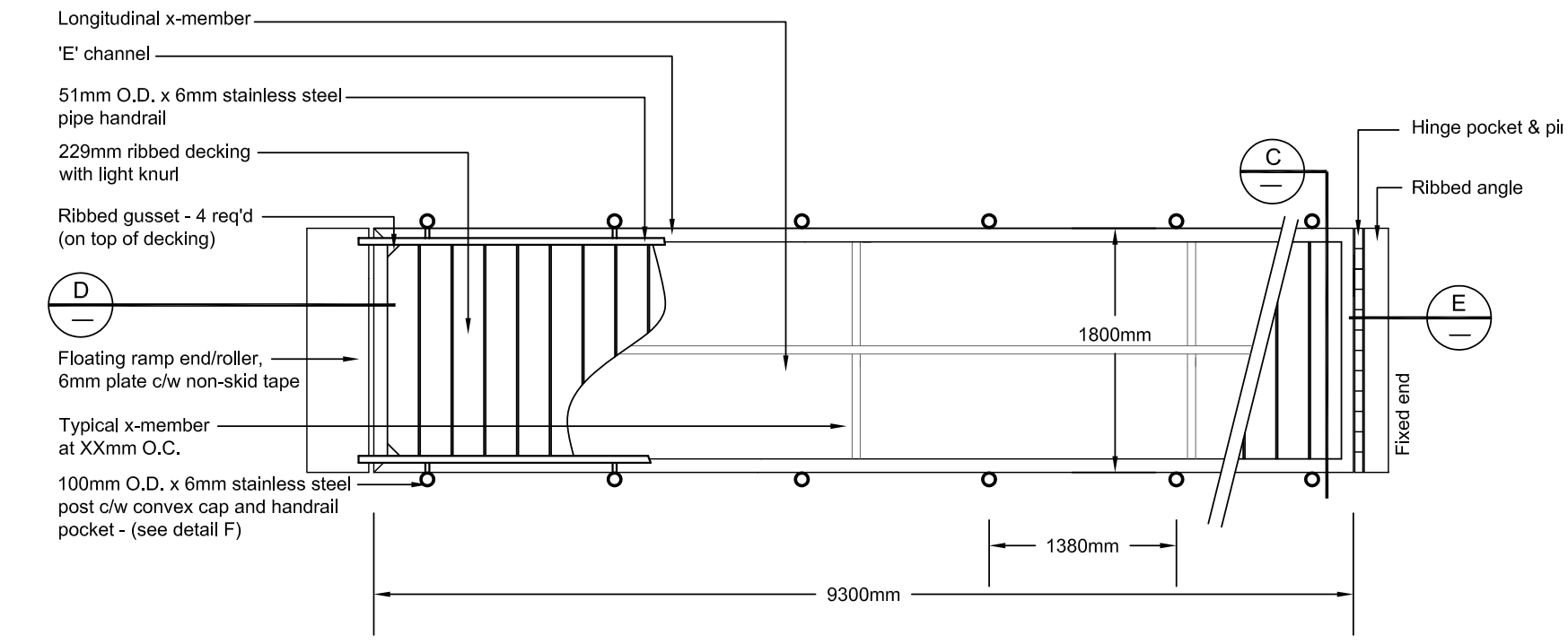
**KGS CONSULTING ENGINEERS & PROJECT MANAGERS GROUP**  
WINNIPEG (204) 698-1200  
THUNDER BAY (807) 348-2233

CLIENT:  
COALITION ACCES RIVIERE  
RIVER ACCESS COALITION (CARRAC)

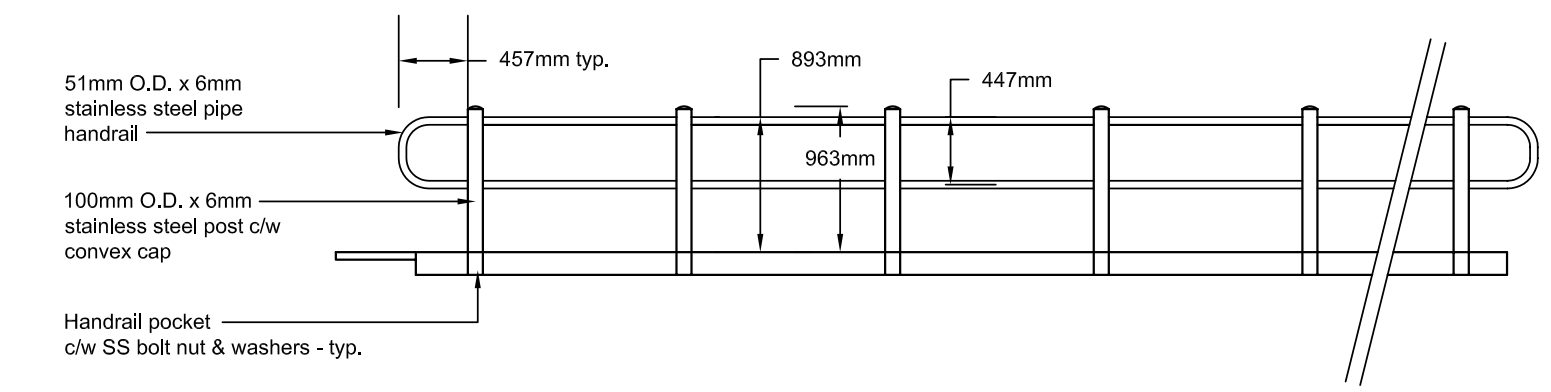
PROJECT:  
OSBORNE STREET CARRAC

P.D. NUMBER:  
OSBORNE STREET DOCK  
DOCK CONSTRUCTION

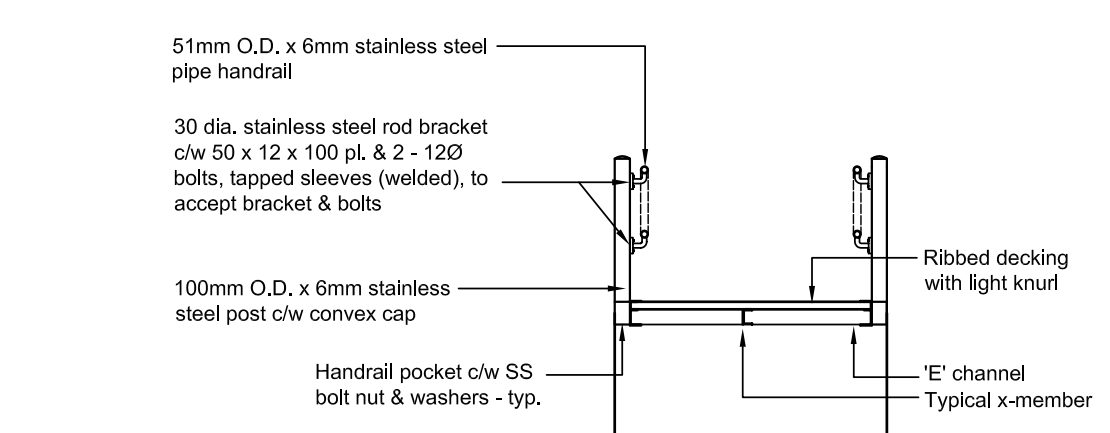
DESIGNED BY: DKM	DRAWN BY: CLA
CHECKED:	CHECKED:
APPROVED:	
SCALE: AS NOTED	DATE: JANUARY 2003
KGS DWG. NO. DWG_NO	DWG
CLIENT PROJECT NO.	REV



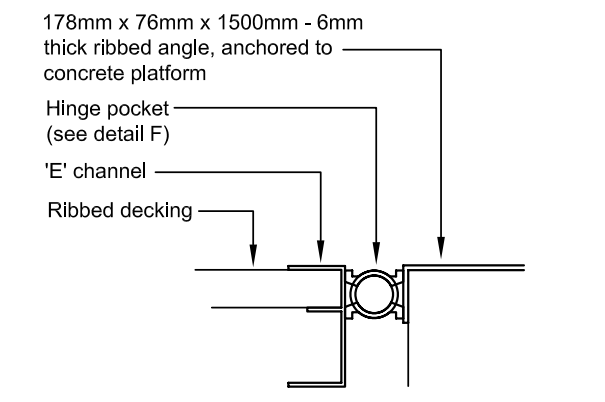
2 RAMP - PLAN VIEW  
SCALE 1:50



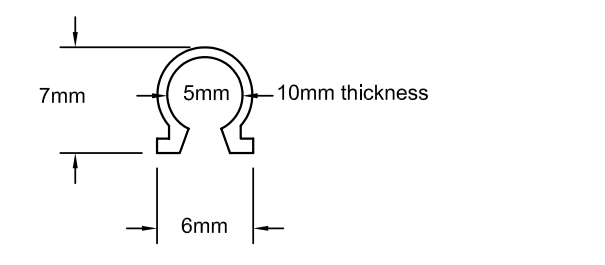
3 RAMP - ELEVATION  
SCALE 1:50



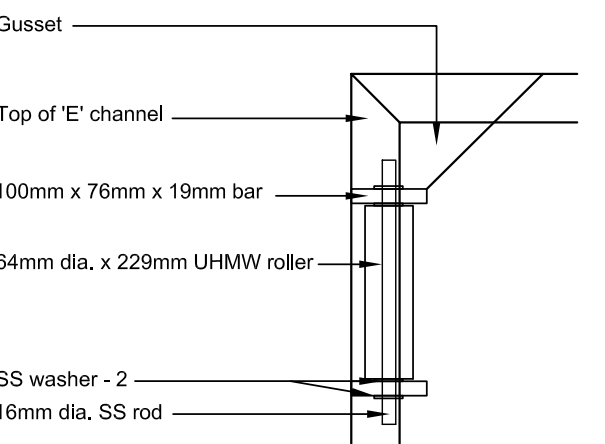
C RAMP - SECTION C  
SCALE 1:50



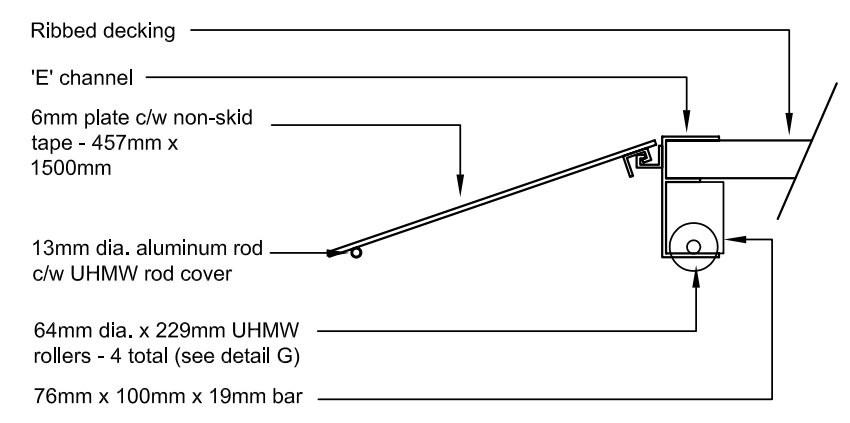
E FIXED END TO LANDING - SECTION  
SCALE 1:10



F HINGE POCKET - SECTION  
SCALE 1:5



G TYPICAL ROLLER DETAIL - PLAN  
SCALE 1:10



D FLOATING RAMP END/ROLLER - SECTION D  
SCALE 1:10