

# MCCARRS CREEK ROAD CARGO WHARF

## FOR CONSTRUCTION



LOCALITY AERIAL

NOT TO SCALE

SOURCE : GOOGLE MAPS

### DRAWING SCHEDULE

DRG NO.	DRAWING TITLE	REV.
C1.01	Cover Sheet	2
C1.02	Specification Notes	2
C1.03	General Arrangement Plan - Sheet 1 of 2	2
C1.04	General Arrangement Plan - Sheet 2 of 2	2
C1.05	Pavement Plan and Details	2
C1.06	Swept Path Analysis - 19.0m AV Parking in the Bay	2
C1.07	Swept Path Analysis - 19.0m AV Entering the Wharf	2
C1.08	Swept Path Analysis - 19.0m AV Exiting the Wharf	2
C1.09	Swept Path Analysis - 12.5m HRV Parking in the Bay	2
C1.10	Swept Path Analysis - 12.5m HRV Entering the Wharf	2
C1.11	Swept Path Analysis - 12.5m HRV Exiting the Wharf	2
C1.12	Traffic Control Devices Plan	2
C1.13	Stormwater Longsection and Details	2
C1.14	Civil Details	1
C5.01	Cargo Wharf Typical Sections	1
C5.02	Road Longsection	1
C5.03	Road Cross Sections	1

PRINT ALL DRAWINGS IN COLOUR

**WARD**  
PROJECT MANAGER  
CNR MCCARRS CREEK AND  
PITTWATER ROADS, CHURCH POINT  
ARCHITECT

Warren  
Smith &  
Partners

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### CONSULTING ENGINEERS

■ Hydraulic Services ■ Fire Services ■ Civil Services  
■ Sydney Water Accredited Water Servicing Co-ordinator  
and Designer



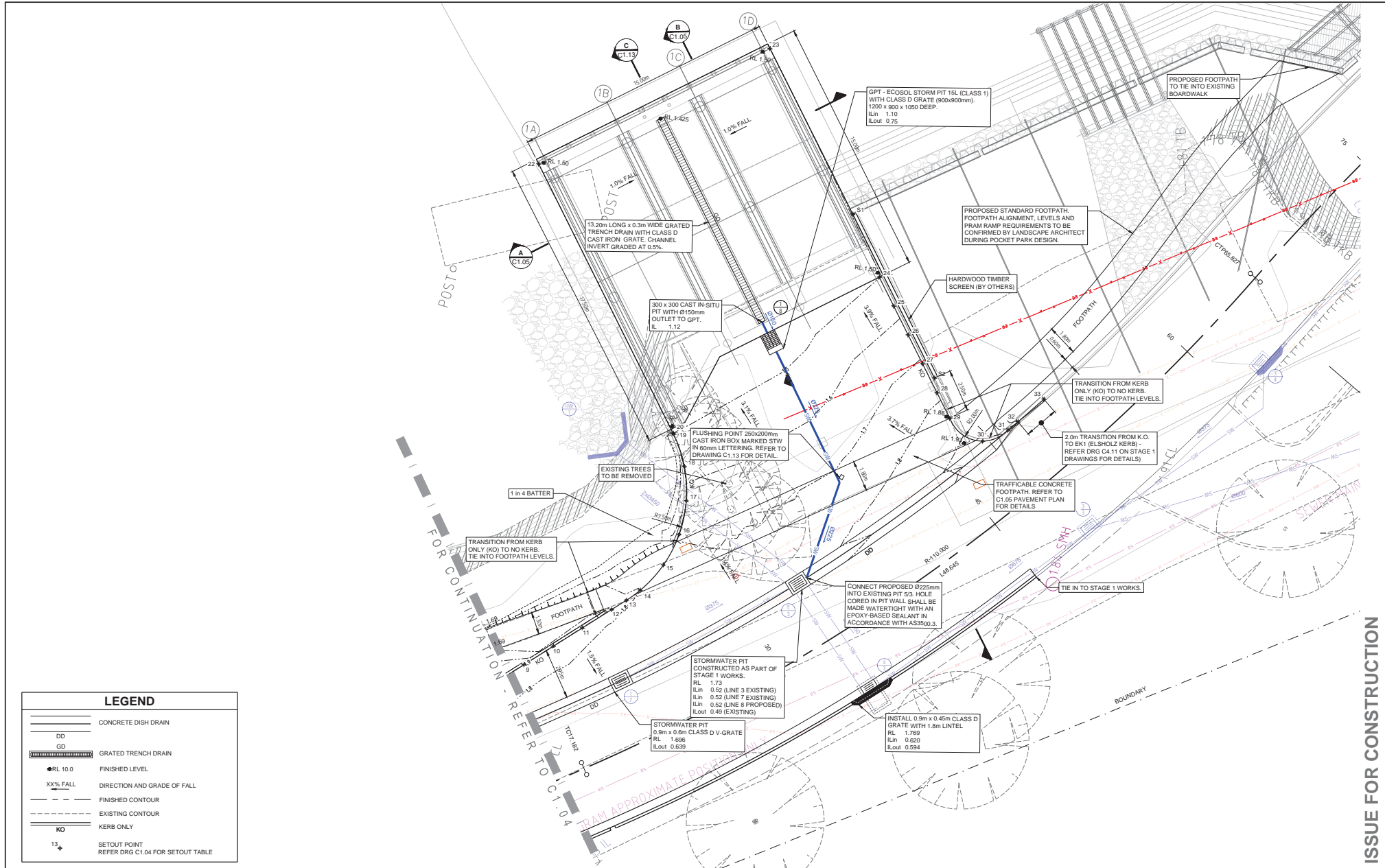
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### COVER SHEET

SCALE	DRAWN	DESIGNED	CHECKED	APPROVED
AS SHOWN	J.M.	J.W.	P.G.	M.C.
5325001	C1.01	2		

DATE: NOVEMBER 2018 STATUS: FOR CONSTRUCTION

GENERAL			CONCRETE WORKS			EARTHWORKS FOR SERVICES			ROAD WORKS, DRIVEWAYS & CARPARKS			AUTHORITY STANDARDS		
G1.	DESIGN HEREIN HAS BEEN PREPARED BY WARREN SMITH AND PARTNERS PTY LTD CONSULTING CIVIL ENGINEERS. LEVEL 9, 233 CASTLECREIGHT ST, SYDNEY NSW 2000. TEL: (02) 9299 1312, FAX: (02) 9290 1295.		C1.	ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS3600, THE STANDARDS ASSOCIATION AUSTRALIA STANDARDS, CITED IN AS3600, THE DRAWINGS AND THE SPECIFICATION.		SE10.	GEOTECHNICAL TESTING IS TO BE UNDERTAKEN AT AT LEAST LEVEL 2 CONTROL OF FILL COMPACTION STANDARD, AS DEFINED IN AS 3738 AS FOLLOWS		RES3.	RESTORE ALL AUTHORITY OWNED AREAS TO COUNCIL STANDARDS		GLA 1.	THE DRAWINGS HEREIN SHALL BE READ IN CONJUNCTION WITH LOCAL AUTHORITY'S STANDARDS & SPECIFICATIONS WHICH SHALL OVERRIDE SPECIAL DETAILS SHOWN ON THE DRAWINGS.	
G2.	THE DRAWINGS HEREIN SHALL BE READ AS REQUIRED IN CONJUNCTION WITH STRUCTURAL ENGINEERS DRAWINGS.		C2.	ALL CONCRETE SHALL BE 80mm NOMINAL SLUMP, 20mm MAXIMUM AGGREGATE WITH NO ADJUTURES OR FLY ASH, UNLESS OTHERWISE APPROVED. ALL CONCRETE WORK IN CONTACT WITH SEWER TO HAVE TYPE SL PORTLAND CEMENT, OTHERWISE TYPE C CEMENT FOR BRIDGE WORKS, A MAXIMUM 56 DAYS SHRINKAGE OF 400 MICROSTRAIN, A MINIMUM CEMENT CONTENT 300kg/m3 AND MAXIMUM WATER-CEMENT RATIO OF 0.40			FOR GENERAL FILL OR CUT AREAS OVER THE AREA PROVIDE ONE (1) TEST PER 200mm LAYER, OVER AN AREA NOT GREATER THAN 50m <sup>2</sup>		R1.	ALLOW FOR LEVEL 2 TESTING AND SUB-GRADE CONDITIONS & PAVEMENT THICKNESS TO BE VERIFIED BY GEOTECHNICAL CONSULTANT AFTER INSPECTION OF PRELIMINARY BODING		CCTV1.	UNDERTAKE A CCTV INSPECTION OF ALL THE COMPLETED DRAINAGE IN ACCORDANCE WITH THE GUIDELINES OF THE AUSTRALIAN CONDUIT CONDITION EVALUATION MANUAL (ACCEM)	
G3.	ALL DIMENSIONS IN MILLIMETRES UNO. REDUCED LEVELS AND CHANGES ARE IN METRES. DO NOT SCALE DRAWINGS. USE FIGURED DIMENSIONS.		C3.	STRENGTH GRADE OF CONCRETE SHALL BE : 25 MPa (KERB, EDGE, STOPS & CONCRETE ENCASMENT) AND 32 MPa ELSEWHERE.		SE11.	SUBMIT ALL GEOTECHNICAL TEST RESULTS TO WARREN SMITH & PARTNERS FOR REVIEW PRIOR TO CONTINUATION WITH SUBSEQUENT SECTION OF WORK.		R2.	ALLOW FOR ANY SUB-GRADE REPLACEMENT WORK TO BE DETERMINED AS REQUIRED BY GEOTECHNICAL CONSULTANT AT THE TIME OF PAVEMENT CONSTRUCTION		CCTV2.	APPLY THE FOLLOWING REQUIREMENTS TO THE CCTV INSPECTION: A. USE DATA CAPTURE SOFTWARE APPROVED BY SYDNEY WATER B. USE CERTIFIED CCTV OPERATORS	
G4.	THE PROPOSED WORKS DETAILED HEREIN SHALL BE CONSTRUCTED TO THE REQUIREMENTS OF COUNCIL GENERALLY AS DETAIL HEREUNDER		C4.	CONSTRUCTION JOINTS SHALL BE PROPERLY FORMED AND USED ONLY WHERE SHOWN OR APPROVED. GENERALLY FOR HAND PLACED KERB & GUTTER 6mm THICK APPROVED BITUMINOUS MASTIC JOINTING MATERIAL SHALL BE PROVIDED AT INTERVALS NOT EXCEEDING 6m. FOR MACHINE PLACED KERB & GUTTER 6mm THICK APPROVED BITUMINOUS MASTIC JOINTING MATERIAL SHALL BE PROVIDED AT INTERVALS NOT EXCEEDING 12m & GULLIOTTED DUMMY GROOVED JOINTS, 25mm IN DEPTH, SHALL BE FORMED EVERY 3m OF GUTTER. JOINTS ARE ALSO REQUIRED AT EACH END OF GUTTER CROSSING AND GULLY PITS. JOINTS SHALL BE SET VERTICAL AND SQUARE TO THE KERB.			TRENCH FILL MATERIAL SHALL CONSIST OF IMPORTED FILL AS SPECIFIED HEREIN OR EITHER HIGH GRADE COMPACTION SAND OR APPROVED CRUSHED ROAD GRAVEL CONFORMING TO RTA FORM 3051 OR SIMILAR.		R4.	PAVEMENT MATERIALS TO COMPLY WITH RMS SPECIFICATION No. 3051 OR SIMILAR AS APPROVED BY GEOTECHNICAL CONSULTANT.		CCTV3.	FURNISH TO THE DESIGN OF THE CONSULTANT:- A. VIDEOS IN MPG FORMAT FOR VIEWING B. CCTV REPORT AND SURVEY DATA IN PDF FORMAT C. ONE HARD COPY PRINTOUT OF THE SURVEY DATA	
G5.	ALL EXISTING SERVICES SHALL BE VERIFIED FOR DEPTH AND HORIZONTAL POSITION BY PHYSICAL MEANS PRIOR TO EXCAVATION. ANY DISCREPANCIES SHALL BE BROUGHT FORTHWITH TO THE PROJECT MANAGERS ATTENTION.		C5.	CONCRETE CURING SHALL BE COMMENCED WITHIN TWO HOURS OF FINISHING OPERATIONS AND SHALL BE CONTINUED FOR A MINIMUM OF SEVEN DAYS BY AN APPROVED PROPRIETARY COMPOUND OR BY KEEPING CONTINUOUSLY WET.		E1.	EXCAVATE TRENCHES AND STOCKPILE ALL MATERIAL FOR INSPECTION WITH REGARD TO RE-USE FOR TRENCH BACKFILL. REMAINING MATERIAL TO BE REMOVED FROM SITE.		R5.	PROVIDE (1) TEST FOR EACH LAYER NOT EXCEEDING 250mm THICK BEING BASECOURSE, SUB-BASE & SUB-GRADE OVER AN AREA NOT GREATER THAN 500m <sup>2</sup>				
	STORMWATER & SUB-SOIL DRAINAGE MATERIALS:		C6.	FORMWORK SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH AS3610. FORMWORK SHALL NOT BE STRIPPED NOR PROPS REMOVED WITHOUT APPROVAL.		E2.	BEDDING MATERIAL SHALL CONSIST OF IMPORTED FILL ONLY. THICKNESS OF BEDDING LAYER SHALL BE 75mm IN O.T.R. AND 200mm IN ROCK.		R6.	SUBMIT ALL GEOTECHNICAL TEST RESULTS TO WARREN SMITH & PARTNERS FOR REVIEW PRIOR TO CONTINUATION WITH SUBSEQUENT SECTION OF WORK.				
STW1.	PIPES AND FITTINGS FOR STORMWATER DRAINAGE SHALL BE AS FOLLOWS UNO ON THE DRAWINGS.			REINFORCEMENT:		E3.	EMBED ALL PIPES WITH IMPORTED FILL ABOVE 200mm SIDE SUPPORT AND 150mm OVERLAY PROVIDE PIPE CROWN.							
A.	SEWER GRADE 4PVC (SN8) WITH SOLVENT WELDED JOINTS FOR BELOW GROUND DRAINAGE UP TO 225mm.					E4.	TRENCH FILL ABOVE THE EMBEDMENT ZONE TO THE UNDERSIDE OF THE ROAD PAVEMENT OR FOOTWAY FILL MATERIAL SHALL BE AS FOLLOWS							
B.	FIBRE REINFORCED CEMENT / REINFORCED CONCRETE CLASS 4 WITH RUBBER RINGS FOR PIPE DIAS GREATER THAN 225mm UNO.								APPROVALS					
C.	REINFORCED CONCRETE WHERE REQUIRED BY AS 3500 FOR EXCESSIVE DEPTH.								A1.	THE AS CONSTRUCTED WORKS SHALL BE INSPECTED BY DESIGN CONSULTANT. MINIMUM 48 HOURS NOTICE SHALL APPLY TO ALL INSPECTIONS				
D.	INSTALL IN ACCORDANCE WITH AUSTRALIAN STANDARD AS3500 EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.								A2.	THE DESIGN PLANS HEREIN ARE SUBJECT TO COUNCIL APPROVAL PRIOR TO CONSTRUCTION. OBTAIN EXPRESS (WRITTEN) ADVICE TO PROCEED FROM PROJECT MANAGER PRIOR TO COMMENCEMENT				
STW2.	PIPES & FITTINGS FOR SUBSOIL DRAINAGE SHALL BE SLOTTED POLYVINYL CHLORIDE (PVC) WITH SOLVENT WELDED JOINTS. MIN. 150mm DIAMETER.								A3.	SUBMIT WORK AS EXECUTED DRAWINGS IN CIVILCAD OR DXF DIGITAL FORMAT AND HARD COPY FORMAT. VERIFY ALL CONSTRUCTION WORKS SHOWN HEREON.				
STW3.	IN GROUND DRAINAGE PIPEWORK SERVING DPs SHALL BE MINIMUM 150mm DIA. UNO.								A4.	CERTIFY THAT THE AS CONSTRUCTED SYSTEM HAS BEEN BUILT IN ACCORDANCE WITH THE APPROVED PLANS ISSUED FOR CONSTRUCTION.				
STW4.	STORMWATER PITS ARE AS SHOWN & SPECIFIED ON THE PLANS. PRECAST TYPE ACCEPTABLE WITH STEP IRONS FOR DEPTH GREATER THAN 1200. BENCH ALL PITS MIN. 50mm & FORM SMOOTH TRANSITION FROM INLET TO OUTLET. ALL INTERNAL PIT DIMENSIONS TO CONFORM TO TABLE B.2 AS-3500.3													
STW5.	SELECT FILL SHALL BE MATERIAL OBTAINED FROM EXCAVATION OF THE PIPE TRENCH OR IMPORTED WITH A PARTICLE SIZE FOR ROCK NOT GREATER THAN 75mm OR FOR OTHER THAN ROCK NOT GREATER THAN 150mm													
STW6.	IMPORTED FILL SHALL BE EITHER, AND GENERALLY CONSIST OF SINGLE SIZED AGGREGATE WITH PARTICLE SIZE NOT GREATER THAN 5mm WRAPPED ALL ROUND WITH GEOTEXTILE FILTER FABRIC OR APPROVED HIGH COMPACTION SAND OR APPROVED CRUSHED ROAD GRAVEL CONFORMING TO RTA FORM 3051 OR SIMILAR.													
STW7.	STORMWATER PITS AND GRATES TO CONFORM WITH STANDARD COUNCIL REQUIREMENTS, WHERE ON PUBLIC LAND, GRATES TO BE SUPPLIED IN CLASS SHOWN ON THE DRAWINGS.													
	INSTALLATION REQUIREMENTS:													
STW8.	PIPES SHALL BE TRUE TO GRADES SHOWN AND ALIGNED SO THAT THE CENTRES OF THE INLET PIPES INTERSECT WITH THE CENTRE OF THE OUTLET PIPE AT THE DOWNSTREAM FACE OF THE PIT.													
STW9.	MINIMUM GRADES FOR GRAVITY STORMWATER DRAINAGE SHALL CONFORM TO AS3500 PART3 AS FOLLOWS, UNO: 1% FOR 100 and 150 mm DIA. 0.5% FOR 225 mm DIA 0.5% FOR 300 mm DIA 0.4% FOR 375 mm DIA													
STW10.	MINIMUM DEPTH OF COVER SHALL BE :- - 300mm IN PRIVATE PROPERTY (NON VEHICULAR TRAFFIC). - 450mm IN PUBLIC AREAS - 600mm IN VEHICULAR TRAFFICABLE AREAS (FOOTWAY/ROADWAY)													
STW11.	BED ALL PIPES FIRMLY AND EVENLY ONTO IMPORTED BEDDING FILL MATERIAL													
STW12.	LAY AND JOINT ALL PIPES IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS AND AS 3725:1989 BURIED FLEXIBLE PIPELINES AS 2546:1989 LOADS ON BURIED FLEXIBLE PIPELINES AS 1597.2:1996 PRECAST REINFORCED CONCRETE BOX CULVERTS AS 3500:1990 NATIONAL PLUMBING & DRAINAGE CODE PART 2, SANITARY PLUMBING AND SANITARY DRAINAGE. SYDNEY WATER REQUIREMENTS.													
STW13.	ALLOW TO TEST ALL PIPES AND PITS TO MANUFACTURERS REQUIREMENTS.													
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			1 100% DETAILED DESING			1 100% DETAILED DESING			WARREN SMITH & PARTNERS			SPECIFICATION NOTES		
			2 ISSUE FOR CONSTRUCTION			2 ISSUE FOR CONSTRUCTION			PROJECT			SCALE		
									CONSULTING ENGINEERS			AS SHOWN		
									CONSULTING ENGINEERS			DESIGNED		
									Hydraulic Services Fire Protection Civil Engineering			J.M.		
									Sewer Water Wastewater Storm Servicing Geotechnical			J.W.		
									Design Project Management Building Plan Approvals			P.G.		
									SERVING THE CONSTRUCTION INDUSTRY SINCE 1981.			CHECKED		
									MCCARRS CREEK ROAD CARGO WHARF			APPROVED		
									5325001			M.C.		
									C1.02			DATE		
									NOVEMBER 2018			FOR CONSTRUCTION		



ISSUE FOR CONSTRUCTION

LEGEND

CONCRETE DISH DRAIN

DD

GD

GRATED TRENCH DRAIN

RL 10.0

XX% FALL

FINISHED LEVEL

FINISHED CONTOUR

EXISTING CONTOUR

KERB ONLY

SETOUT POINT

REFER DRG C1.04 FOR SETOUT TABLE

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NORTH

10 0 10 20 30 40 50m

SCALE 1:500

AT SHEET

REVISION	AMENDMENT	DATE	REVISION	AMENDMENT	DATE
1	100% DETAILED DESIGN	05/10/18			
2	ISSUE FOR CONSTRUCTION	05/11/18			

CLIENT

WARD

MCCARRS CREEK ROAD CARGO WHARF

PREPARED BY

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CONSULTING ENGINEERS

Hydraulic Services

Fire Protection

Civil Engineering

Sydney Water Accredited Water Servicing Co-ordinator

Design Project Management - Building Plan Approvals

SERVING THE CONSTRUCTION INDUSTRY SINCE 1981

TITLE

GENERAL ARRANGEMENT PLAN - SHEET 1 OF 2

SCALE AS SHOWN

DATE NOVEMBER 2018

5325001

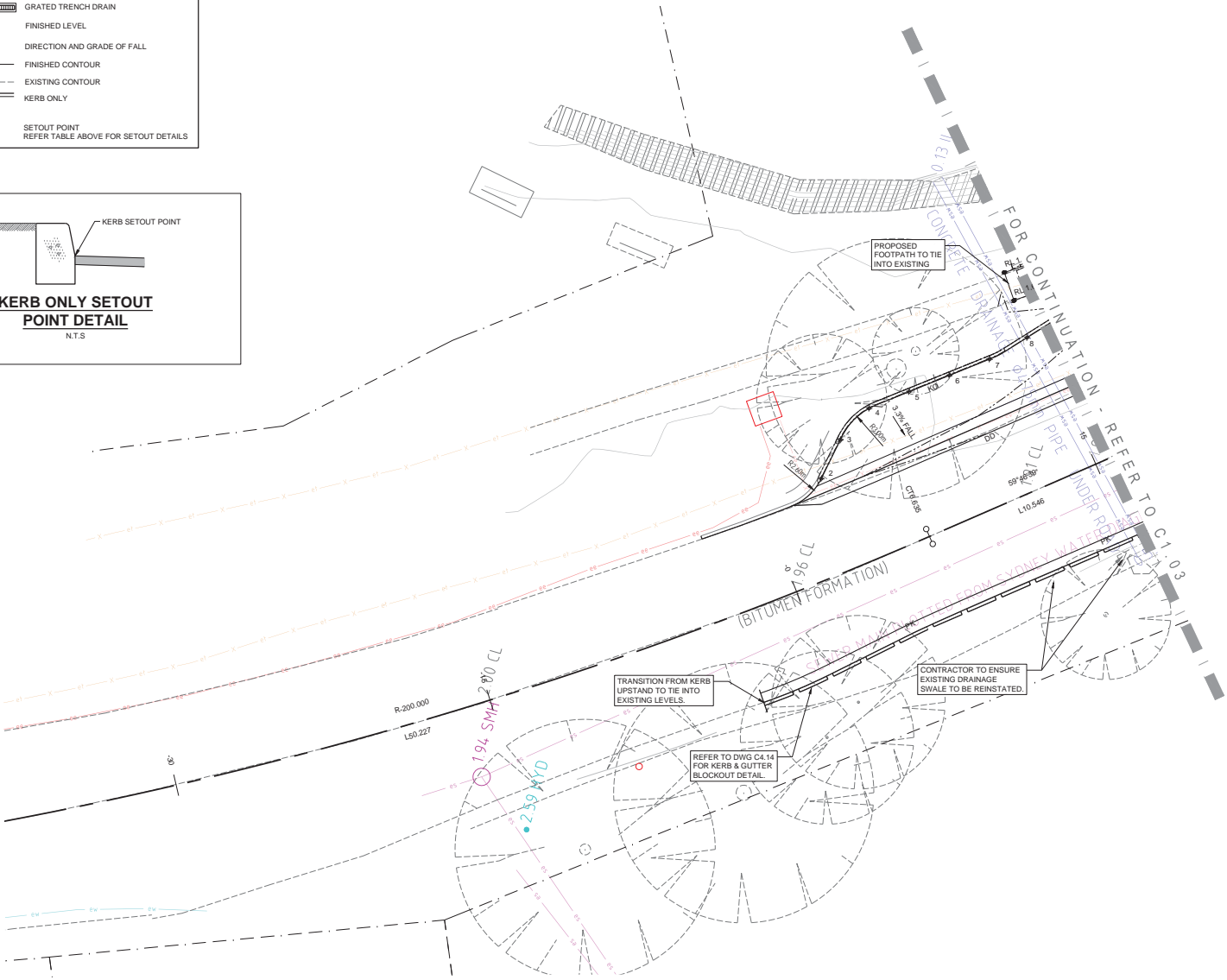
C1.03

2

FOR CONSTRUCTION

## LEGEND

	CONCRETE DISH DRAIN
DD	
	GRADED TRENCH DRAIN
GD	
	FINISHED LEVEL
● RL 10.0	
	DIRECTION AND GRADE OF FALL
XX% FALL	
	FINISHED CONTOUR
- - - - -	
	EXISTING CONTOUR
----	
	KERB ONLY
KO	
13	SETOUT POINT REFER TABLE ABOVE FOR SETOUT DETAILS



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CLIENT

 **WARD**

---

PROJECT

MCCARRS CREEK ROAD  
CARGO WHARF

PREPARED BY



**Warren Smith & Partners**

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Tel 02 9299 1312 / 02 9290 1295 [www.warrensmith.com.au](http://www.warrensmith.com.au)  
[www.warrensmith.com.au](http://www.warrensmith.com.au) **ABN** 36 300 430 126

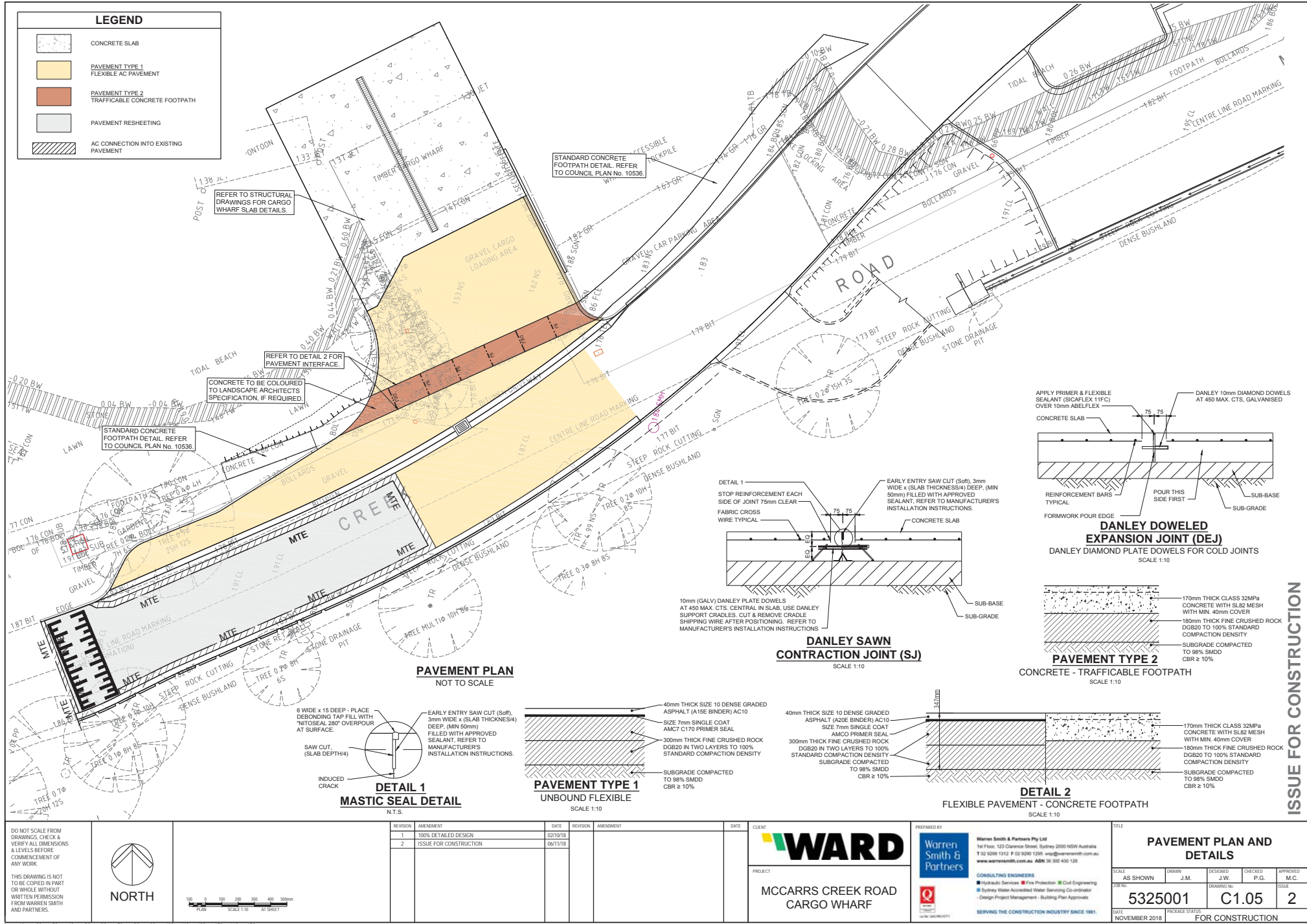
**CONSULTING ENGINEERS**

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- Sydney Water Accredited Water Servicing Co-ordinator
- Design Project Management - Building Plan Approval

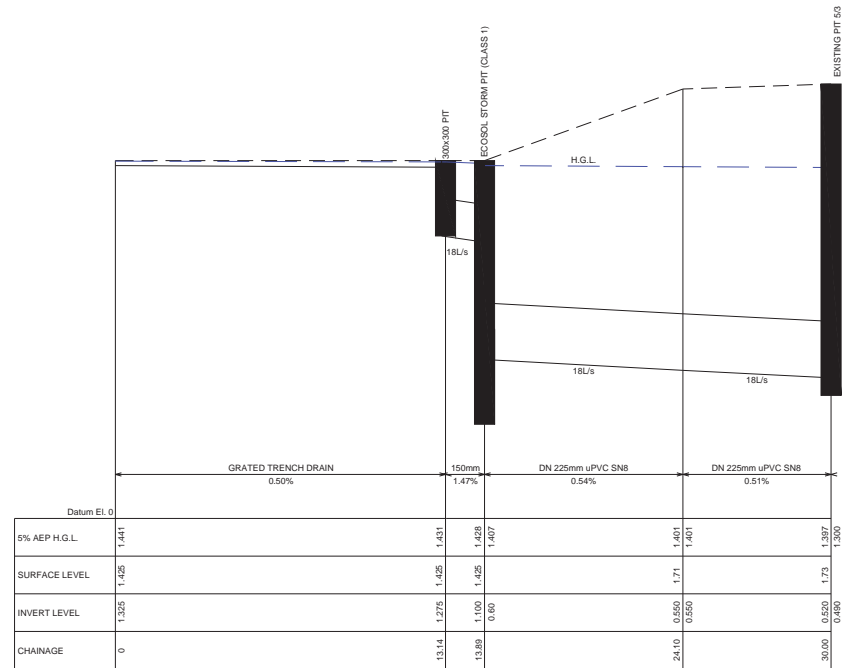
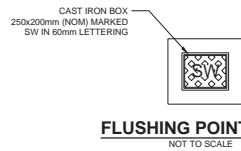
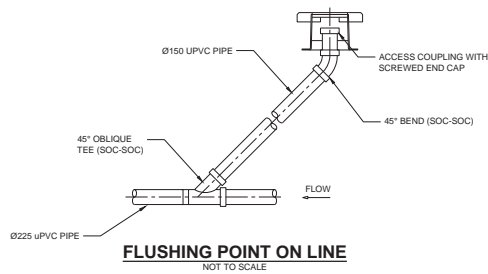
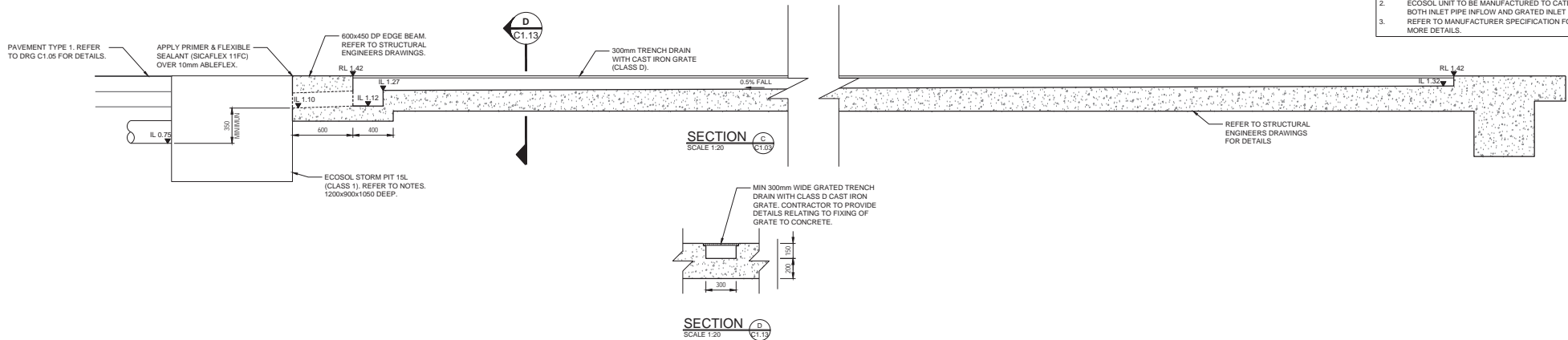
**SERVING THE CONSTRUCTION INDUSTRY SINCE 1981.**

<h1 style="text-align: center;">GENERAL ARRANGEMENT PLAN - SHEET 2 OF 2</h1>				
SCALE AS SHOWN	DRAWN J.M.	DESIGNED J.W.	CHECKED P.G.	APPROVED M.C.
JOB No. <b>5325001</b>		DRAWING No. <b>C1.04</b>		ISSUE <b>2</b>
DATE NOVEMBER 2018	PACKAGE STATUS <b>FOR CONSTRUCTION</b>			





- NOTES:**
1. A MINIMUM DROP OF 350mm IS TO BE PROVIDED BETWEEN INCOMING L PIPE AND OUTGOING PIPE L.
  2. ECOSOL UNIT TO BE MANUFACTURED TO CATER FOR BOTH INLET PIPE INFLOW AND GRATED INLET FLOW. REFER TO MANUFACTURER SPECIFICATION FOR MORE DETAILS.

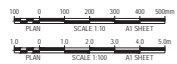


**LONGSECTION**

SCALES: HORIZONTAL 1:100 VERTICAL 1:10

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REVISION	AMENDMENT	DATE	REVISION	AMENDMENT	DATE
1	100% DETAILED DESIGN	02/10/18			
2	ISSUE FOR CONSTRUCTION	06/11/18			

**WARD**

PROJECT

MCCARRS CREEK ROAD  
CARGO WHARF

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CONSULTING ENGINEERS

Hydraulic Services Fire Protection Civil Engineering

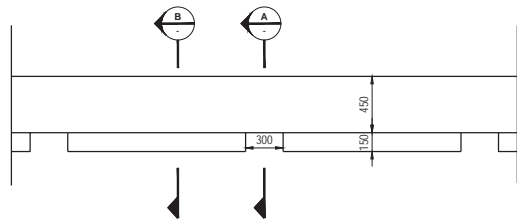
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Design Project Management - Building Plan Approvals

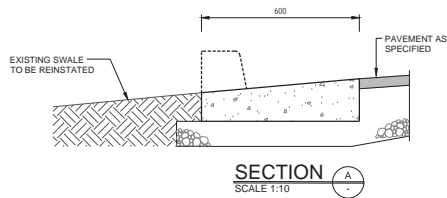
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TITLE					
STORMWATER LONGSECTION AND DETAILS					
SCALE	DRAWN	DESIGNED	CHECKED	APPROVED	
AS SHOWN	J.M.	N.G.	P.G.	M.C.	
JOB NO.	DRAWING NO.			REVISION	
5325001	C1.13			2	
DATE	PACKAGE STATUS				
NOVEMBER 2018	FOR CONSTRUCTION				

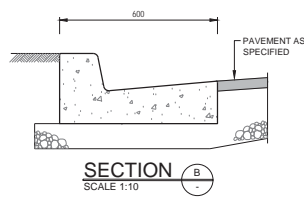
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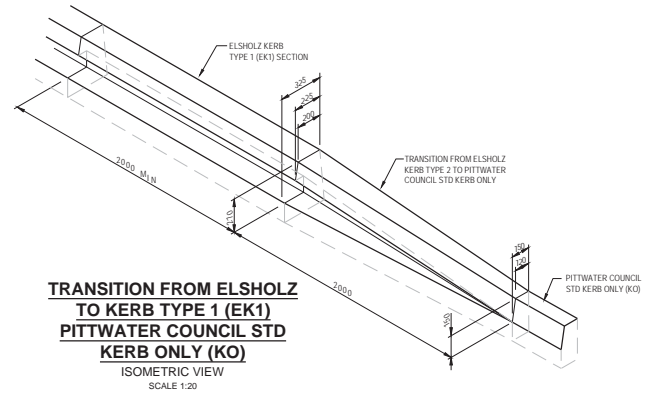
**KERB & GUTTER WITH  
BLOCKOUTS PLAN**  
SCALE 1:20



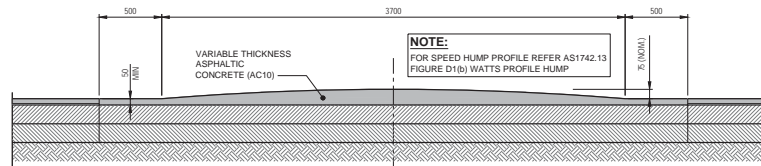
**SECTION A-A**  
SCALE 1:10



**SECTION B-B**  
SCALE 1:10



**TRANSITION FROM ELSHOLZ  
TO KERB TYPE 1 (EK1)  
PITTWATER COUNCIL STD  
KERB ONLY (KO)**  
ISOMETRIC VIEW  
SCALE 1:20



**FLEXIBLE PAVEMENT SPEED  
HUMP TYPE 1 - (ROUNDED)**  
SCALE 1:20

ISSUE FOR CONSTRUCTION

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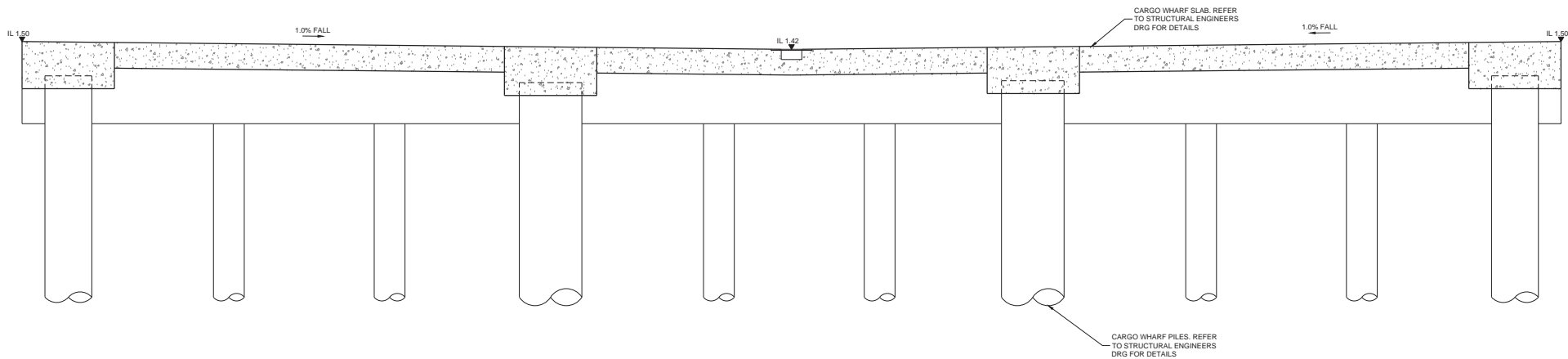
REVISION	AMENDMENT	DATE	REVISION	AMENDMENT	DATE
1	ISSUE FOR CONSTRUCTION	05/11/18			

**WARD**  
PROJECT  
MCCARRS CREEK ROAD  
CARGO WHARF

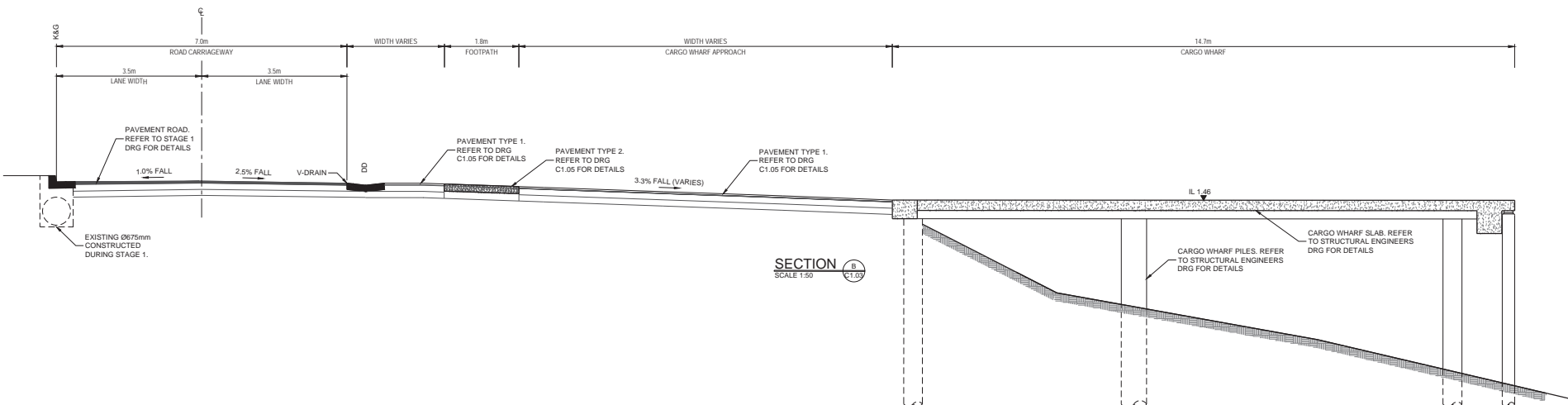
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CIVIL DETAILS					
SCALE	DRAWN	DESIGNED	CHECKED	APPROVED	
AS SHOWN	J.M.	N.Q.	P.G.	M.C.	
5325001		C1.14		1	
DATE NOVEMBER 2018		PACKAGE STATUS FOR CONSTRUCTION			

SHEET SIZE: A1



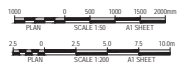
SECTION A  
SCALE 1:20



SECTION B  
SCALE 1:50

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REVISION	AMENDMENT	DATE	REVISION	AMENDMENT	DATE
1	ISSUE FOR CONSTRUCTION	04/11/18			
2	ISSUE FOR CONSTRUCTION	05/11/18			

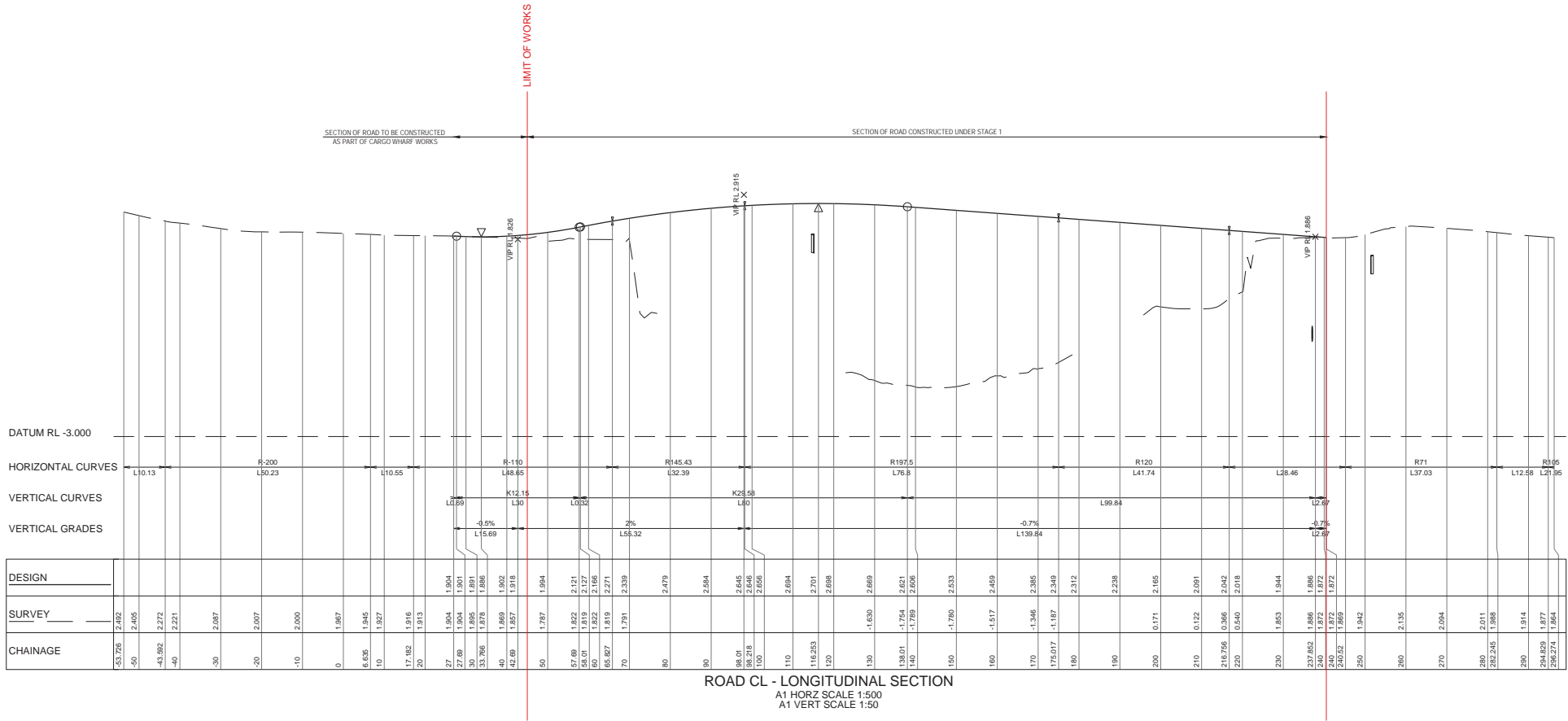
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TITLE					
CARGO WHARF TYPICAL SECTIONS					
SCALE AS SHOWN	DRAWN J.M.	DESIGNED J.W.	CHECKED P.G.	APPROVED M.C.	
JOB NO. 5325001		DRAWING NO. C5.01		ISSUE 2	
DATE NOVEMBER 2018	PACKAGE STATUS FOR CONSTRUCTION				



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1000 500 1000 2000mm

VER SCALE 1:50 AT SHEET

0 50 100 150 200m

HOR SCALE 1:500 AT SHEET

REVISION	AMENDMENT	DATE
1	ISSUE FOR CONSTRUCTION	06/11/18

REVISION	AMENDMENT	DATE
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CLIENT

**WARD**

PROJECT

MCCARRS CREEK ROAD CARGO WHARF

PREPARED BY

Warren Smith & Partners Pty Ltd

1st Floor, 121 Clarence Street, Sydney, 2000 NSW Australia

T: 62 9299 1312 F: 62 9290 1295 wsp@warrensmith.com.au

www.warrensmith.com.au ABN 36 300 430 126

CONSULTING ENGINEERS

- Hydraulic Services
- Fire Protection
- Civil Engineering

Sydney Water Accredited Water Servicing Co-ordinator

Design Project Management - Building Plan Approvals

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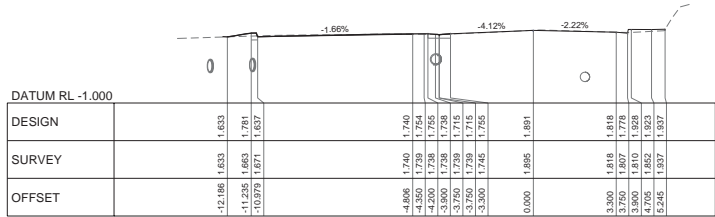
TITLE

**ROAD LONGSECTION**

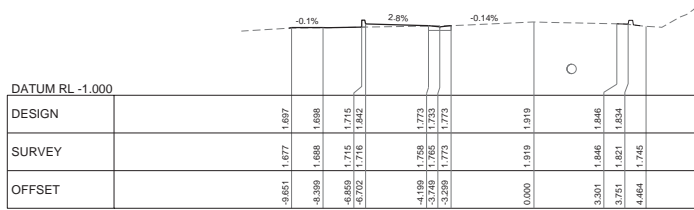
SCALE	AS SHOWN	DRAWN	J.M.	DESIGNED	J.W.	CHECKED	P.G.	APPROVED	M.C.
FIG NO.	5325001	DRAWING NO.	C5.02	CORE	1				

DATE: NOVEMBER 2018

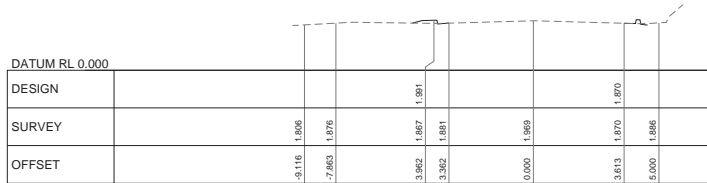
PACKAGE STATUS: FOR CONSTRUCTION



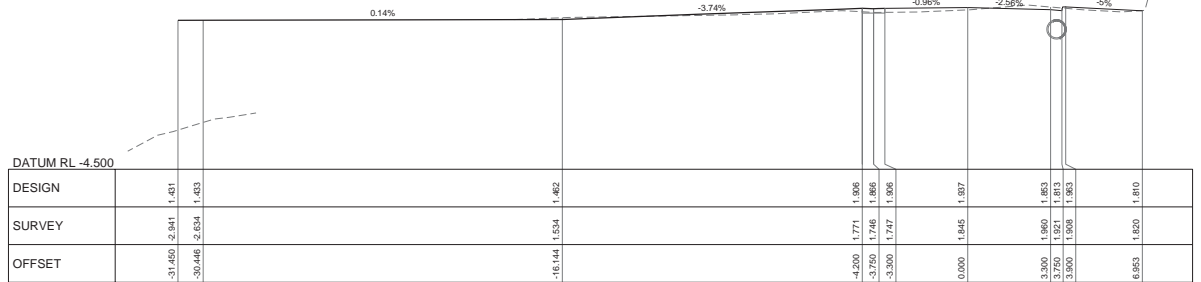
CHAINAGE 30



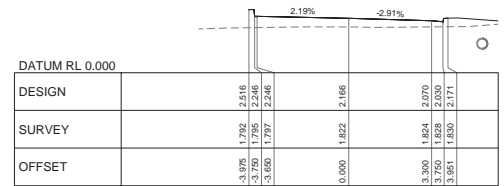
CHAINAGE 15



CHAINAGE 0



CHAINAGE 45



CHAINAGE 60

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ROAD CROSS SECTIONS					
SCALE	AS SHOWN	DRAWN	J.M.	DESIGNED	J.W.
TITLE	5325001		C5.03		1
DATE	NOVEMBER 2018		FOR CONSTRUCTION		