

NOTES :-

1. DESIGN AND FINAL PLAN PREPARED BY :
SARREN SMITH AND PARTNERS PTY.LTD.
CONSULTING CIVIL ENGINEERS.
LEVEL 1, 123 CLARENCE STREET SYDNEY. 2000.
Ph: (02) 9299 1312
Fax: (02) 9290 1295
REF: 2018B3
2. FOR : SYDNEY OPERA HOUSE TRUST
Ph: (02) 9250 7179
3. SURVEY BY HARD & FORESTER
Phone: (02) 9879 6077
Fax: (02) 9879 7143
4. THE PROPOSED WORKS DETAILED HERE ON MUST BE
CONSTRUCTED IN ACCORDANCE WITH THE SEWERAGE CODE OF
AUSTRALIA, WSA 02 - 2002-2.2, SYDNEY WATER EDITION VERSION 1.
THE CONTRACTOR MUST HAVE A COPY OF THESE DOCUMENTS
ON SITE AT ALL TIMES.
5. THE MINIMUM NUMBER OF FIELD COMPACTION TESTS REQUIRED TO
SATISFY SECTION 13.2.5 OF SEWERAGE CODE OF AUSTRALIA SUPPLEMENT.
NOT IN ROADWAY: PIPE EMBEDMENT ZONE: 1 TEST EVERY 100m
TRENCH FILL ZONE: 1 TEST EVERY 100m EACH 300mm LAYER
IN ROADWAY: PIPE EMBEDMENT ZONE: 1 TEST EVERY 50m
TRENCH FILL ZONE: 1 TEST EACH 300mm LAYER EVERY 50m
6. SURVEY MARKS ARE PEGS UNLESS OTHERWISE STATED.
7. MEASURES REQUIRED TO PROTECT THE ENVIRONMENT
ARE DETAILED IN REVIEW OF ENVIRONMENTAL FACTORS.
REF: 2018B3 REF01.DOC
8. ALL PROPOSED F.S.L. ARE APPROXIMATE AND GIVEN AS
GUIDE ONLY. DETAILS MUST BE CONFIRMED WITH THE ARCHITECT & BUILDER
PRIOR TO COMPLETION OF MH.
10. ALL EXISTING DISUSED MH'S TO BE DEMOLISHED AND
ALL EXISTING CASTINGS FROM STRUCTURES TO BE RECOVERED.
11. ALL STRUCTURES TO BE BUILT TO PPSL
12. 'A' - 'B' DISCONNECT, SANDFILL OR REMOVE 240m OF 3.05 x
1.22 R.C. BOX CULVERT
13. SERVICES SHOWN ARE INDICATIVE ONLY. A CURRENT SERVICES SEARCH AND
SITE CHECK OF ALL EXISTING SERVICES WILL BE NECESSARY BY THE CONTRACTOR
PRIOR TO COMMENCEMENT OF THE WORK AND APPROPRIATE PROCEDURES, PRECAUTIONS
AND CARE NEED TO BE TAKEN WHEN WORKING WITHIN CLOSE PROXIMITY OF
THESE SERVICES TO EXISTING SERVICES. ANY DAMAGE TO BE RECTIFIED AT
THE CONTRACTOR'S EXPENSE.
14. ALL LEVELS ELECTRONICALLY GENERATED. NO LEVEL BOOK AVAILABLE.
15. THE EXISTING CUSTOMER DRAIN LINE FOR SYDNEY OPERA HOUSE TO BE RECONNECTED TO THE
NEW STORMWATER CHANNEL. THIS CONNECTION MUST BE CARRIED OUT BY A LICENSED DRAINER & INSPECTED BY A
SYDNEY WATER PLUMBING & DRAINAGE INSPECTOR.
16. CONTRACTOR TO ALLOW FOR DEALING WITH TIDAL WATER & STORM FLOW SURCHARGES IN DRAIN DURING CONSTRUCTION.
17. LIFTING EYES ON UNITS TO BE GIVEN ONE COAT OF TAR EPOXY PRIOR TO BACKFILL.
18. ALL CONCRETE TO BE SPECIAL CLASS CONCRETE.
REFER TO SYDNEY WATER STANDARD STORMWATER SPECIFICATION.
COVER 75mm TO FACES EXPOSED TO GROUND, COVER 50mm ELSEWHERE
LAP 350 FOR N12 BARS, 300 FOR MESH.

DANGEROUS SERVICES EXIST IN THE AREA
REFER TO SERVICES SEARCH FOR DETAILS

DRAWING LIST:

DETAIL & SETOUT PLAN	SHEET 2
LONGITUDINAL SECTION	SHEET 3
TYPICAL CROSS SECTIONS	SHEET 4
OUTLET CONNECTION DETAILS	SHEET 5
INLET CONNECTION DETAILS	SHEET 6

EXISTING SURVEY & SERVICES PLAN
PLAN SHOWING DETAIL, LEVELS, SERVICES
IN THE FORECOURT AREA OF SYDNEY OPERA HOUSE
BY HARD & FORESTER CONSULTING SURVEYORS
DRAWING No. 110219026 Rev. 01

REFERENCE DRAWINGS BY
STEENSEN VARMING (AUSTRALIA) PTY LTD:

ELECTRICAL SERVICES DIVERSION PROPOSAL, SHEET 1 OF 3	E1102
ELECTRICAL SERVICES DIVERSION PROPOSAL, SHEET 2 OF 3	E1103
ELECTRICAL SERVICES DIVERSION PROPOSAL, SHEET 3 OF 3	E1104

PIPE SCHEDULE					
SIZE INCH	TYPE	CLASS	LENGTH	NOTES	
2.4 x 1.8	R.C.		107.0		
DESIGN HEADm			NO BOUNDARY TRAPS REQUIRED.		

AUSTRALIAN HEIGHT DATUM

SCALES

PLAN	1:1000	SECTION	{	HOR.	1:250
			{	VERT.	1:125

CROSS SECTIONS NATURAL

LENGTHS, DEPTHS & LEVELS ARE IN METRES.

NO AMENDMENTS ARE TO BE MADE TO THIS
PLAN WITHOUT REFERENCE TO SYDNEY
WATER.

U.B. DIRECTORY 1,M9

SHEET .1. OF .7.	File No
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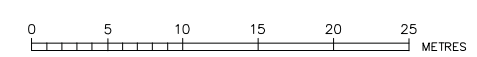
Sydney SYDNEY WATER CORPORATION

WATER

Case No. 81070SW

CITY OF SYDNEY DRAINAGE
BENNELONG POINT SWC No. 29
DEVIATION

PLAN TO BE READ IN CONJUNCTION WITH CURRENT SYDNEY WATER STANDARDS SYDNEY WATER CORPORATION	UTILITIES						WORK AS CONSTRUCTED CERTIFICATION				PIPE SCHEDULE				AUSTRALIAN HEIGHT DATUM SCALES PLAN 1:1000 SECTION { HOR. 1:250 VERT. 1:125 CROSS SECTIONS NATURAL LENGTHS, DEPTHS & LEVELS ARE IN METRES.		NO AMENDMENTS ARE TO BE MADE TO THIS PLAN WITHOUT REFERENCE TO SYDNEY WATER.	<div>Sydney WATER</div> <div>SYDNEY WATER CORPORATION</div> <div>Case No. 81070SW</div> <div>CITY OF SYDNEY DRAINAGE</div> <div>BENNELONG POINT SWC No. 29</div> <div>DEVIATION</div>
	WATER: DN100 Water	DATE	REF.	TYPE	DATE	REF.	DEVELOPER	DESIGN HEADm	NO BOUNDARY TRAPS REQUIRED.	SIZE (mm) 2.4 x 1.8	TYPE R.C.	CLASS	LENGTH 107.0	NOTES				
PRIOR TO COMMENCEMENT OF EXCAVATION FOR PROPOSED AND EXISTING SERVICES CONTACT - DIAL BEFORE YOU DIG Ph. 1100 ELECTRICITY Ph. GAS Ph. TELECOMMUNICATIONS Ph.	SEWER: S S					WATER SERVICE CO-ORDINATOR											U.B. DIRECTORY1M9	
	STORMWATER: SWD SWD					CONSTRUCTOR												
						COMPLETED W.A.C. PREPARED												
						DESIGNER												
						I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS.												

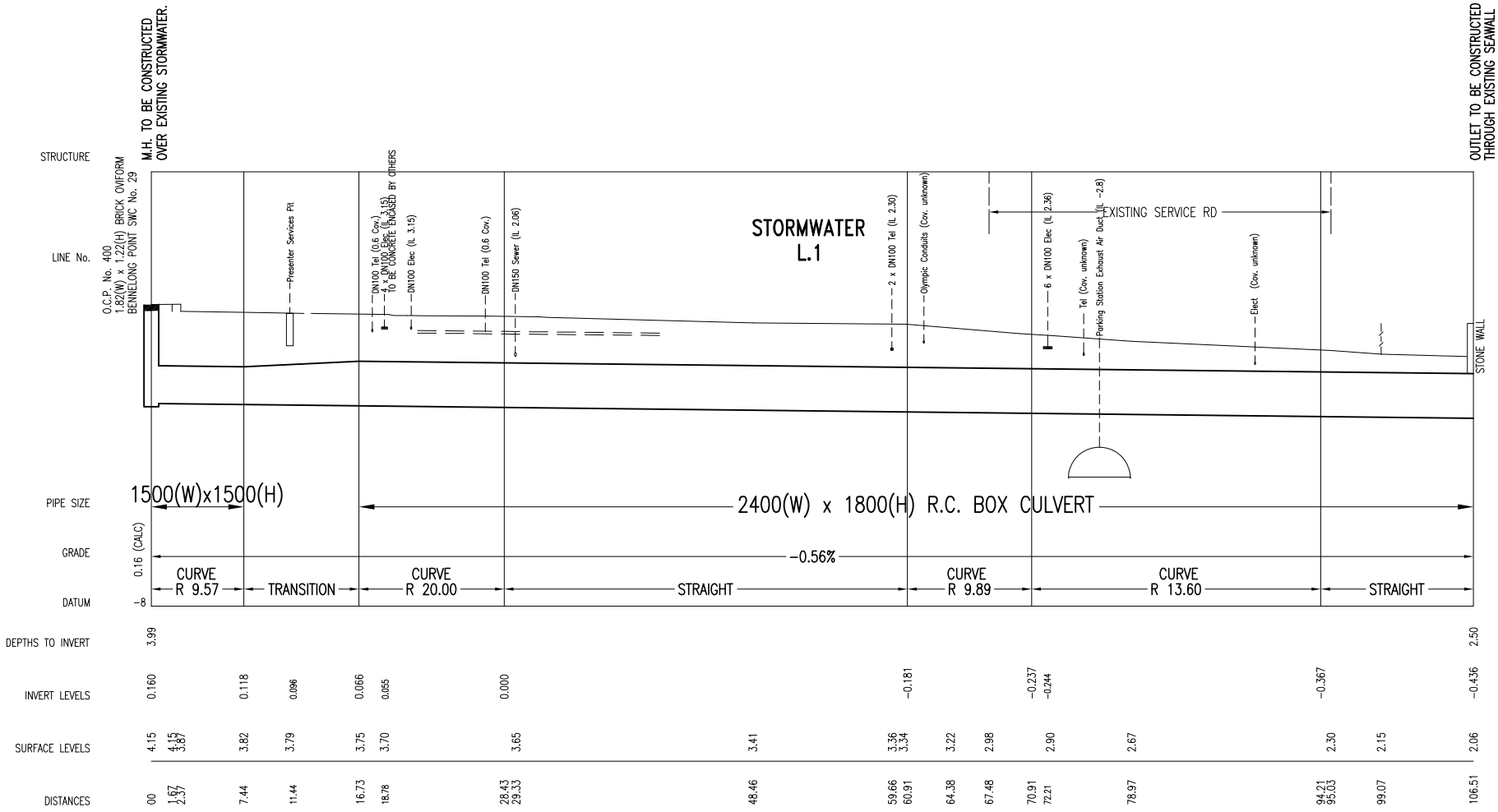


PLAN

SCALE : HOR. 1 : 250

WORK AS CONSTRUCTED CERTIFICATION		<div>Sydney WATER</div> <div>SYDNEY WATER CORPORATION</div>	
DEVELOPER		<div>Case No. 81070SW</div> <div>SHT 2 OF 7 SHTS.</div>	
W.S.C.			
CONSTRUCTOR		<div>DESIGNER</div> <div>I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORKS CONTRACT AND CHANGES</div> <div>FOR DETAILS OF SERVICES SEE SHEET 1</div>	
COMPLETED			
W.A.C. PREPARED			

ISSUE 4 : FOR PART 3A APPLICATION REVIEW
DATE: 26/05/09



LONGITUDINAL SECTION

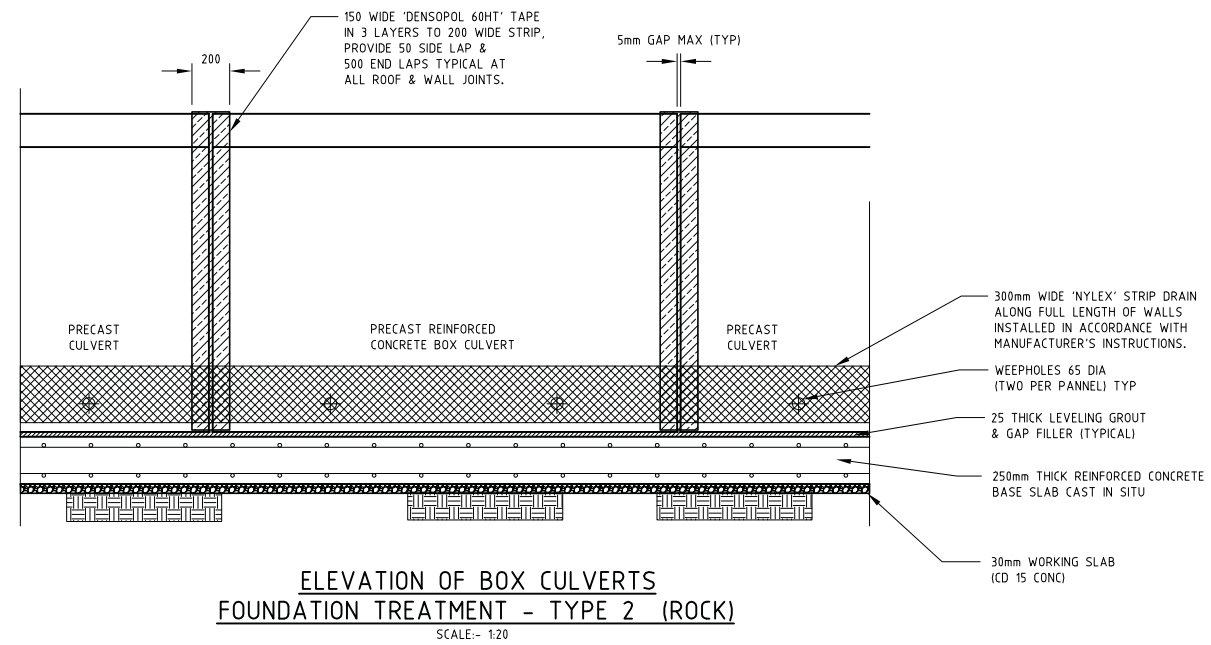
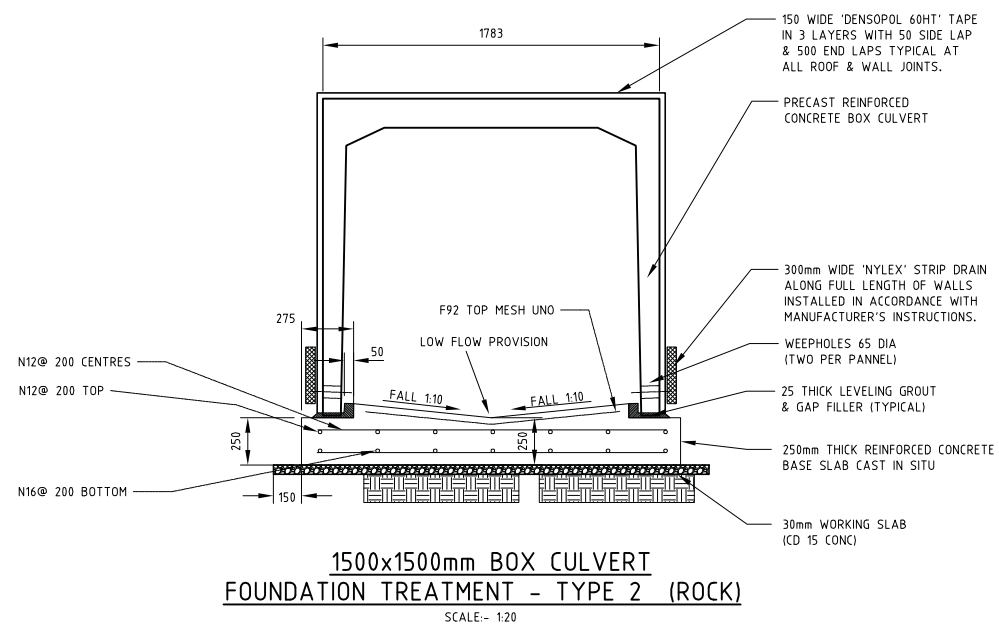
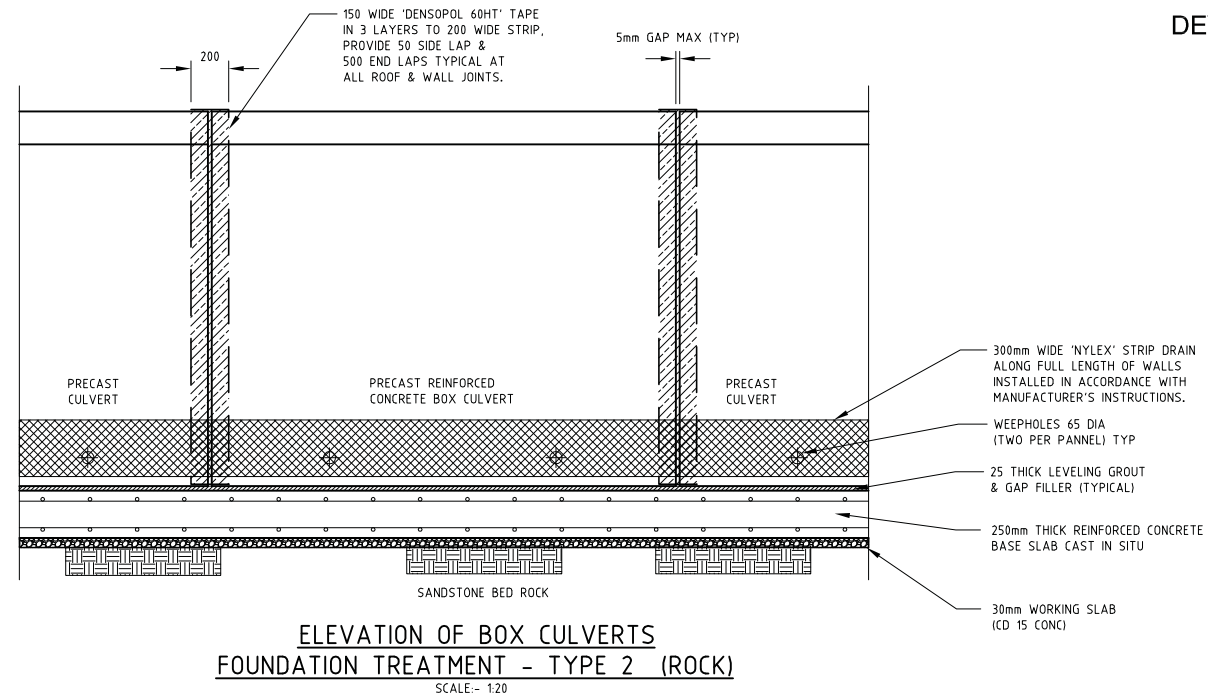
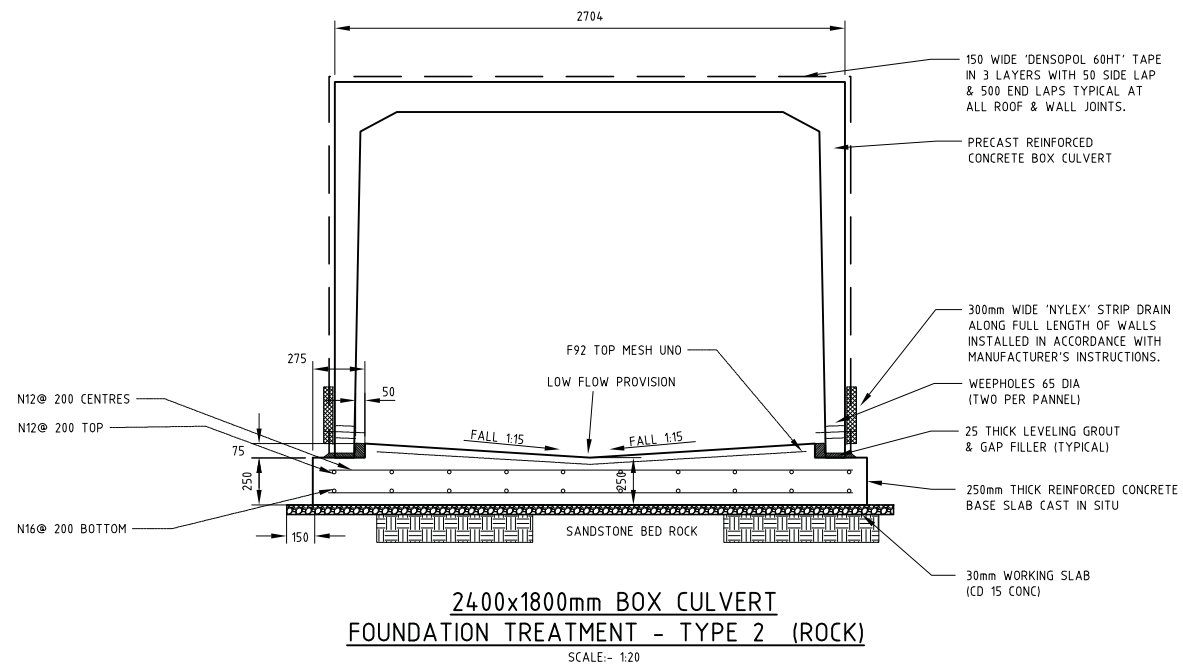
SCALE : HOR. 1 : 250
VERT. 1 : 125

PRELIMINARY

NOTE:
BOX CULVERT DIMENSION ARE INTERNAL


WORK AS CONSTRUCTED CERTIFICATION		Sydney WATER SYDNEY WATER CORPORATION	
DEVELOPER	Case No. 81070SW SHT 3 OF 7 SHTS.	
W.S.C.		
CONSTRUCTOR		
COMPLETED		
W.A.C. PREPARED	SYDNEY WATER CORPORATION FOR DETAILS OF SERVICES SEE SHEET 1	
DESIGNER		
I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS			

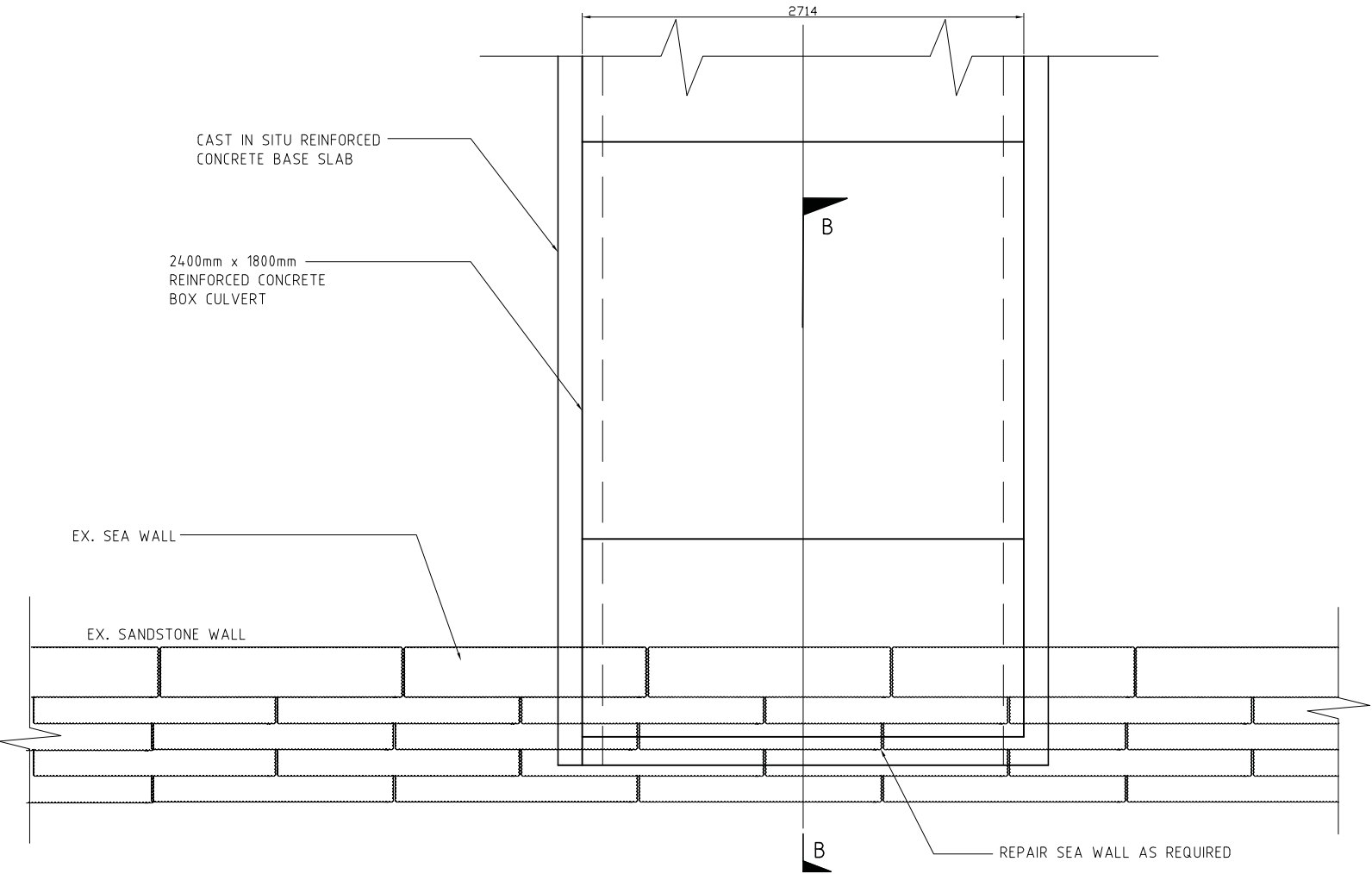
A1F



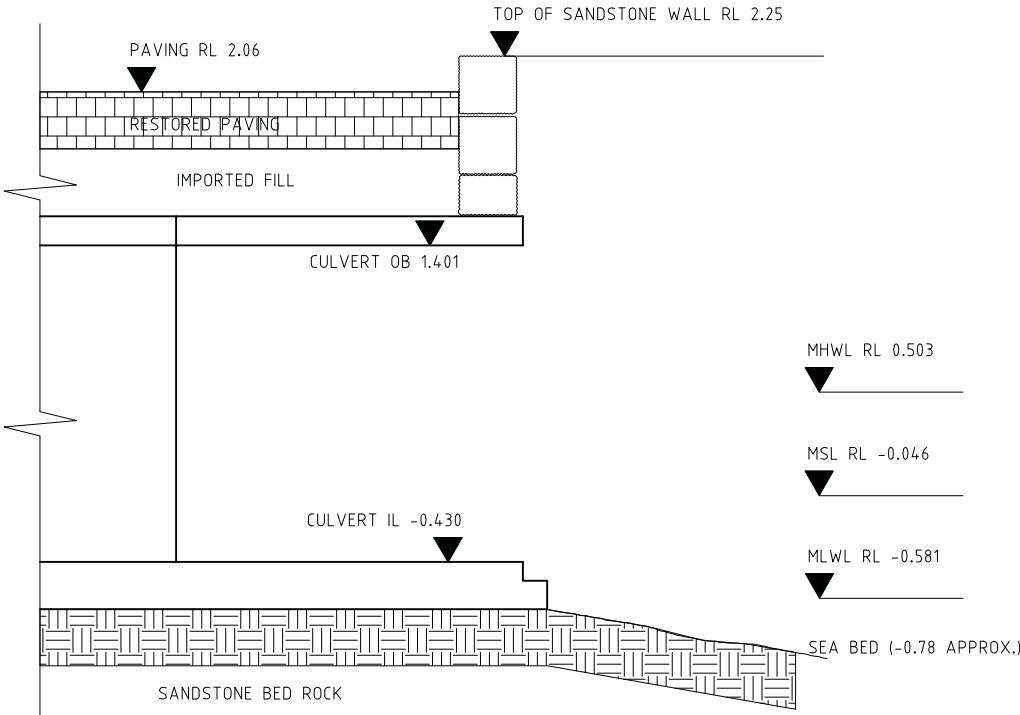
DEVELOPER CONTRACT PLAN

ISSUE 4 : FOR PART 3A APPLICATION REVIEW
DATE: 26/05/09

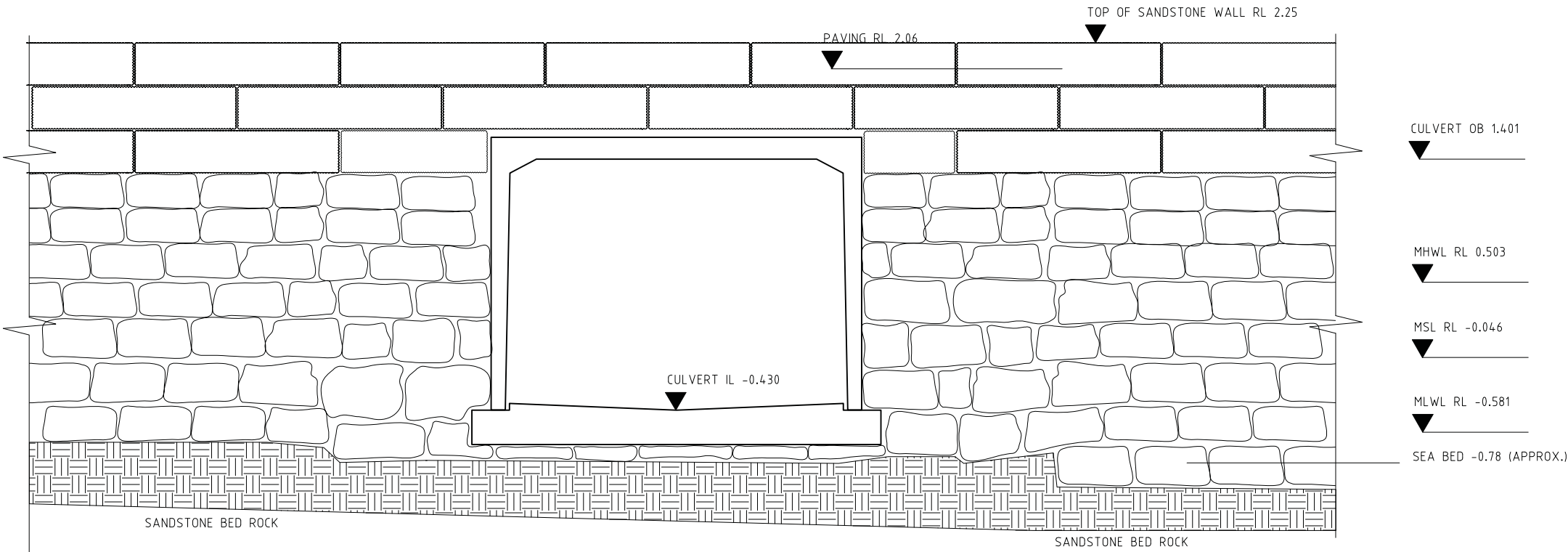
WORK AS CONSTRUCTED CERTIFICATION DEVELOPER _____ W.S.C. _____ CONSTRUCTOR _____ COMPLETED _____ W.A.C. PREPARED _____		SYDNEY WATER CORPORATION  Case No. 81070SW		SHT 4 OF 7 SHTS.	
DESIGNER _____ I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS		SYDNEY WATER CORPORATION FOR DETAILS OF SERVICES SEE SHEET 1			



PLAN OF CULVERT AT SEA WALL
SCALE:- 1:20

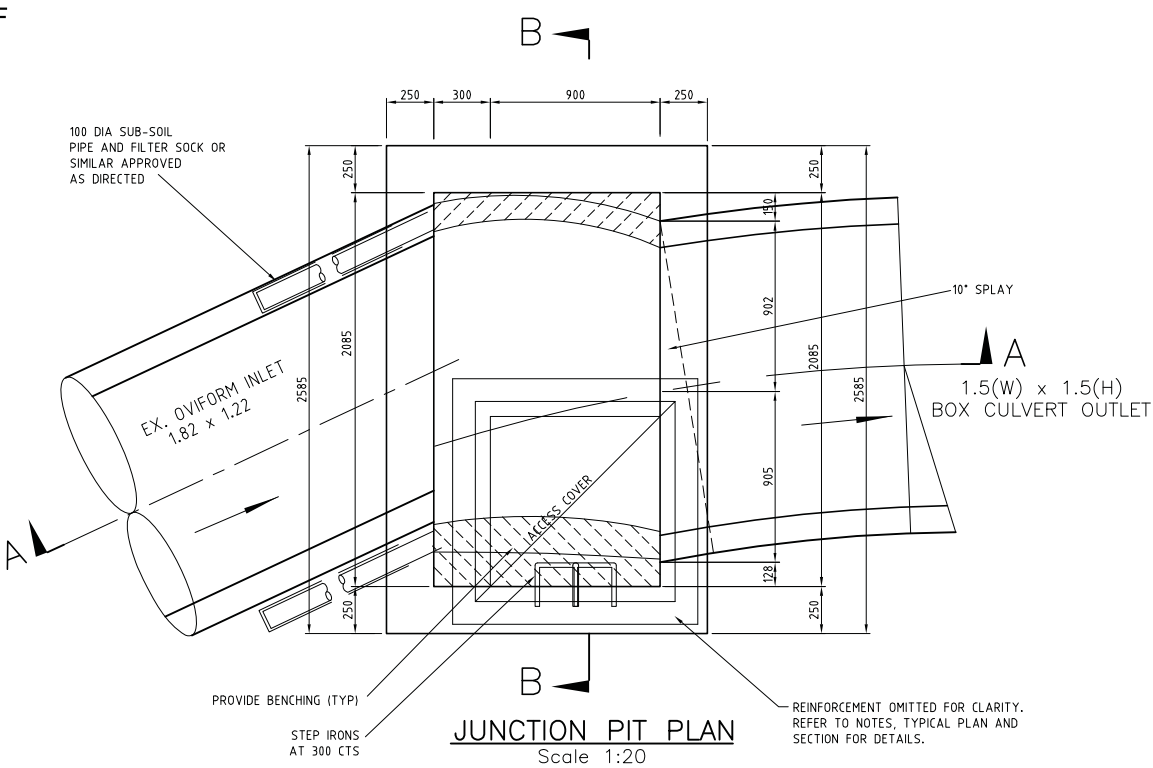


SECTION OF CULVERT AT SEA WALL
SCALE:- 1:20



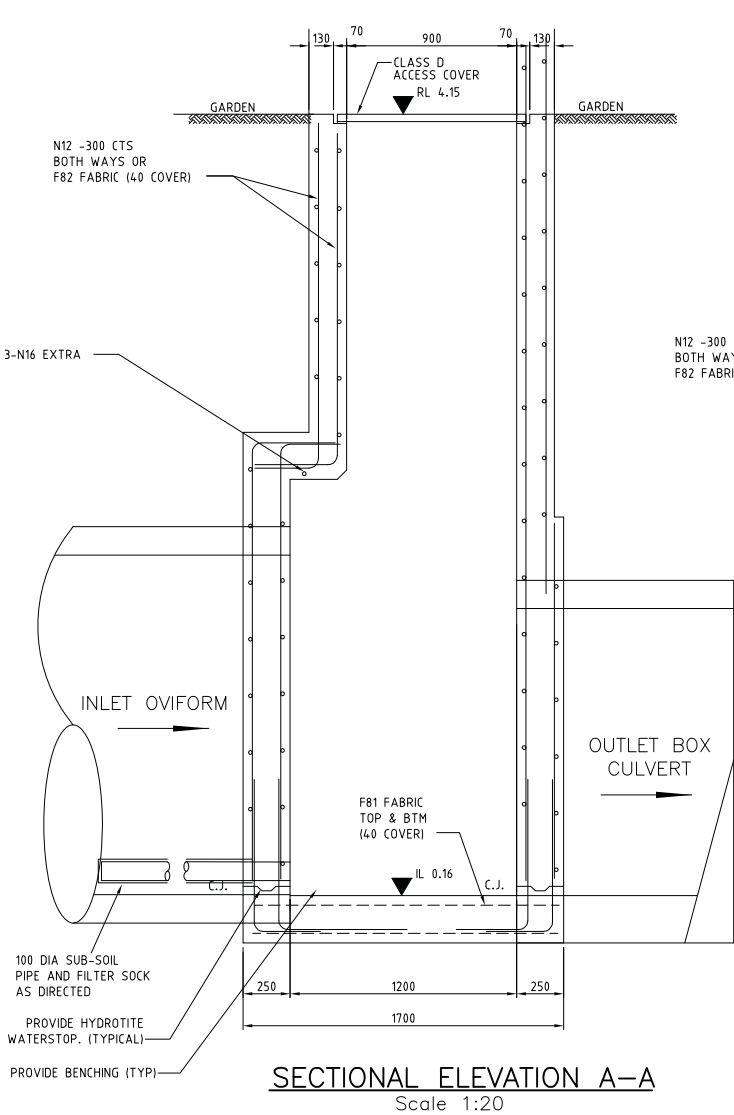
ELEVATION OF CULVERT AT SEA WALL
SCALE:- 1:20

WORK AS CONSTRUCTED CERTIFICATION		<div>Sydney WATER</div> SYDNEY WATER CORPORATION	
DEVELOPER	_____	<div>Case No. 81070SW</div> <div>SHT 5 OF 7 SHTS.</div>	
W.S.C.	_____		
CONSTRUCTOR	_____		
COMPLETED	_____		
W.A.C. PREPARED	_____		
DESIGNER	_____	SYDNEY WATER CORPORATION	
I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS		FOR DETAILS OF SERVICES SEE SHEET 1	

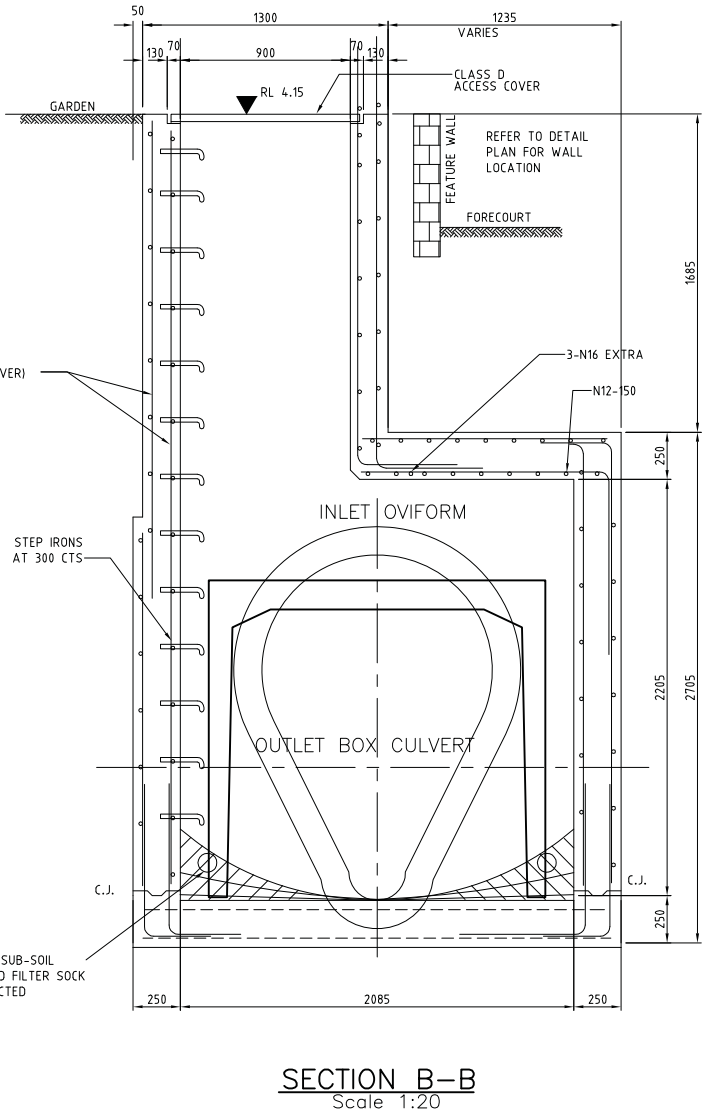


1500w x 1500h
BOX CULVERT SECTION
Scale 1:20

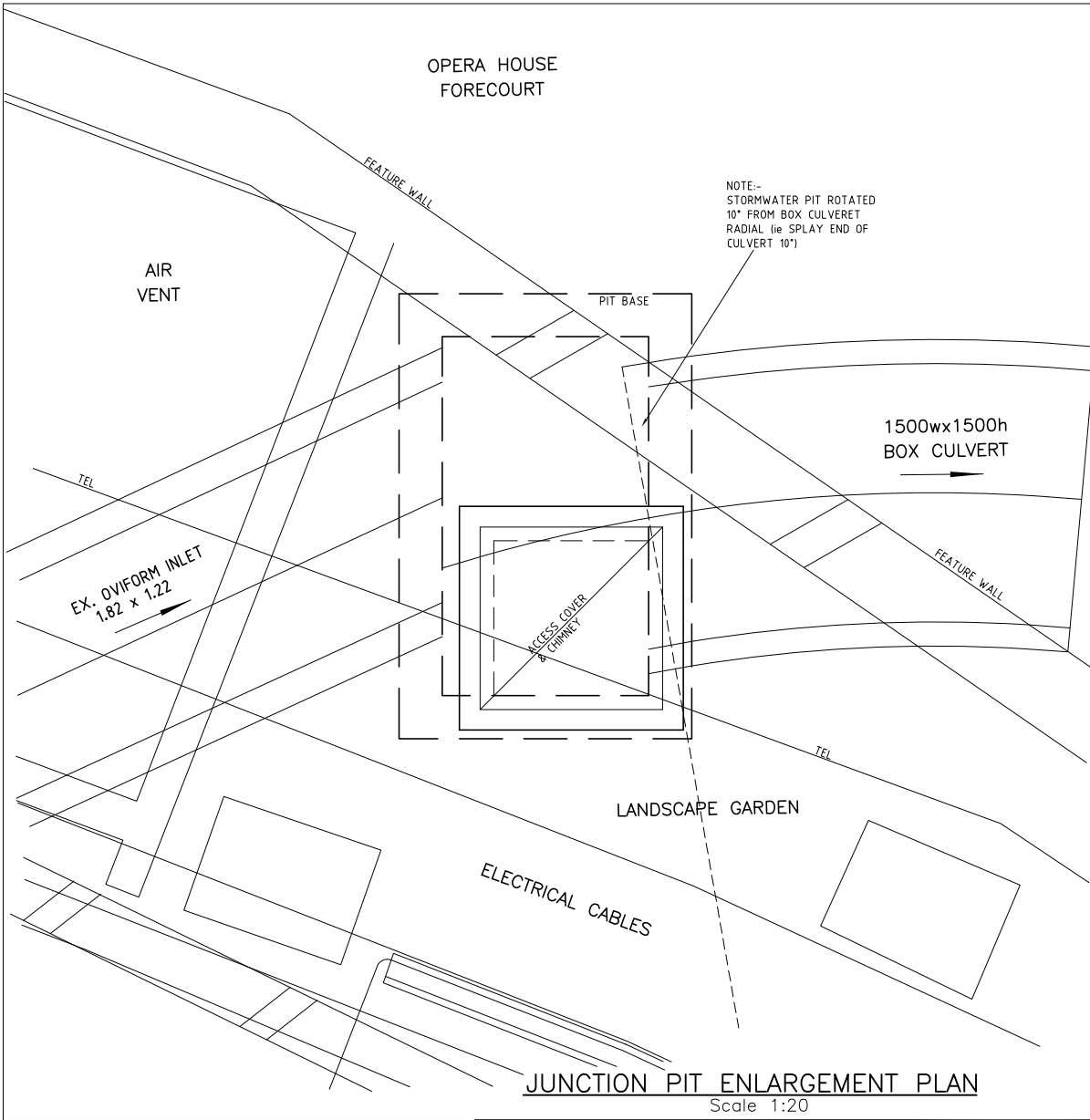
1829h x 1219w
EX. OVIFORM SECTION
Scale 1:20



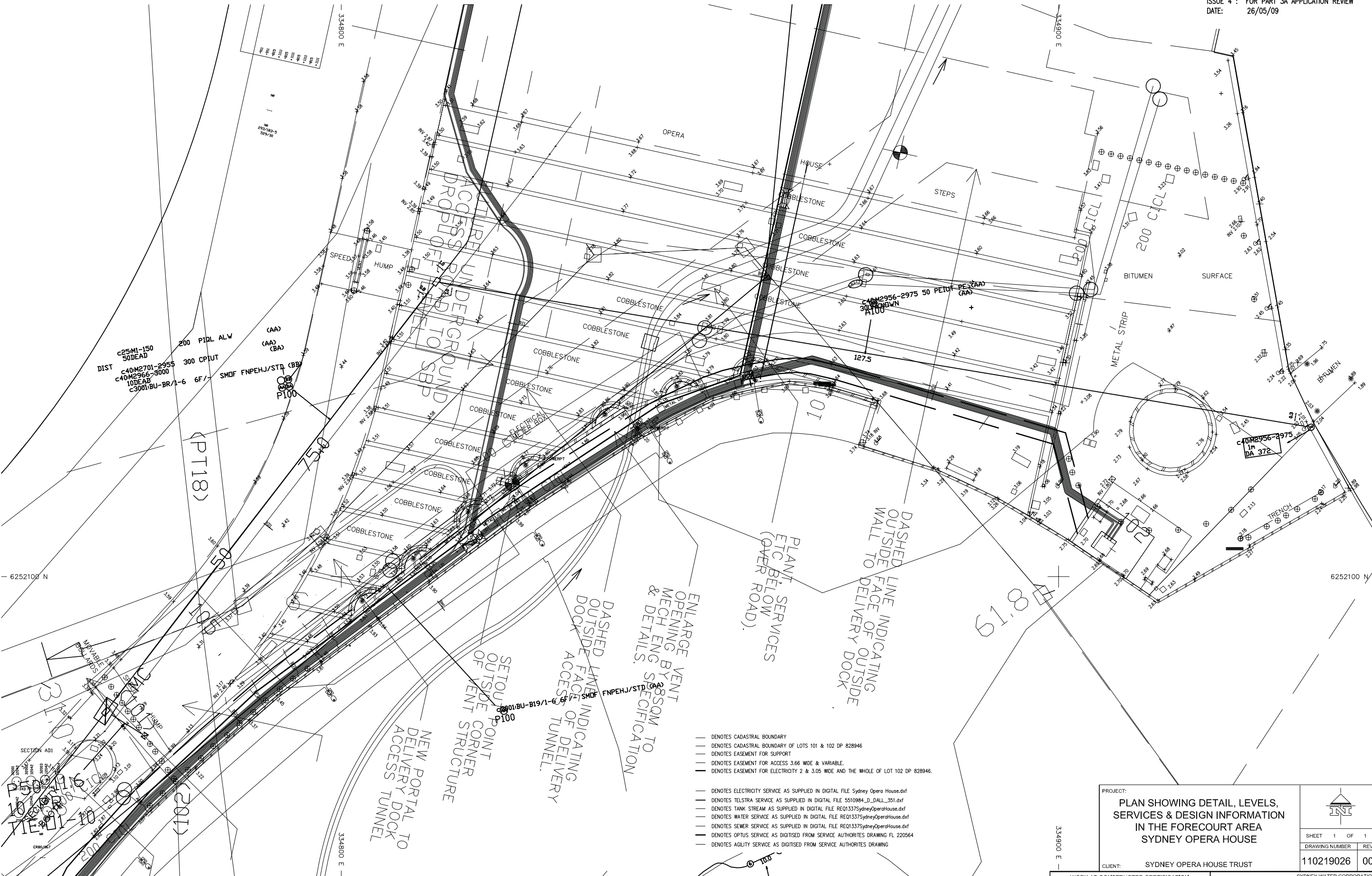
SECTIONAL ELEVATION A-A
Scale 1:20



SECTION B-B
Scale 1:20



WORK AS CONSTRUCTED CERTIFICATION		SYDNEY WATER CORPORATION	
DEVELOPER		Sydney WATER	
W.S.C.			
CONSTRUCTOR		Case No. 81070SW SHT 6 OF 7 SHTS.	
COMPLETED			
W.A.C. PREPARED			
DESIGNER			
I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS		SYDNEY WATER CORPORATION FOR DETAILS OF SERVICES SEE SHEET 1	



- DENOTES CADASTRAL BOUNDARY
- DENOTES CADASTRAL BOUNDARY OF LOTS 101 & 102 DP 828946
- DENOTES EASEMENT FOR SUPPORT
- DENOTES EASEMENT FOR ACCESS 3.66 WIDE & VARIABLE
- DENOTES EASEMENT FOR ELECTRICITY 2 & 3.05 WIDE AND THE WHOLE OF LOT 102 DP 828946
- DENOTES ELECTRICITY SERVICE AS SUPPLIED IN DIGITAL FILE Sydney Opera House.dxf
- DENOTES TELSTRA SERVICE AS SUPPLIED IN DIGITAL FILE 5510984_D_DALL_351.dxf
- DENOTES TANK STREAM AS SUPPLIED IN DIGITAL FILE REQ1337SydneyOperaHouse.dxf
- DENOTES WATER SERVICE AS SUPPLIED IN DIGITAL FILE REQ1337SydneyOperaHouse.dxf
- DENOTES SEWER SERVICE AS SUPPLIED IN DIGITAL FILE REQ1337SydneyOperaHouse.dxf
- DENOTES OPTUS SERVICE AS DIGITISED FROM SERVICE AUTHORITIES DRAWING FL 220564
- DENOTES AGLITY SERVICE AS DIGITISED FROM SERVICE AUTHORITIES DRAWING

IMPORTANT NOTE:
This plan is prepared for SOH from a combination of field survey and existing records for the purpose of designing new constructions on the land and should not be used for any other purpose.
The title boundaries shown hereon were not marked by the author at the time of survey and have been determined by plan dimensions only and not by field measurement.

Services shown hereon have been located where possible by field survey. If not able to be so located, known services have been plotted from the records of relevant authorities where available and have been noted accordingly on this plan.
Where such records either do not exist or are considered inadequate, a notation has been made hereon.
Prior to any demolition, excavation or construction on the site, the relevant authority should be contacted for possible location of further underground services and detailed locations of all services.
This note is an integral part of this plan.

LEGEND:

REVISION	DATE	DESCRIPTION	CCAD REF	APPROVED
00	02.05.2005	ORIGINAL ISSUE	EH	PWC

SCALE: HORZ. 1:250 VERT. 1:250 CONTOUR INTERVAL: MAJOR 0.0 MINOR 0.0	VERT. 1:250 CONTOUR INTERVAL: MAJOR 0.0 MINOR 0.0	B1
COORD. SYSTEM MGA	MARK ADOPTED: COORDINATES: N	
DATUM: AHD	VERTICAL DATUM RL ADOPTED: RL	
SURVEYED D.D.	DRAWN G.M.	CHECKED

HARD & FORESTER
HARD & FORESTER
52 Frederick Street
PO Box 175
Rockdale NSW 2216
DX11118 Kogarah
t: (02) 9599 4077
f: (02) 9599 2146
e: survey@hardforester.com.au
w: www.hardforester.com.au



WORK AS CONSTRUCTED CERTIFICATION	
DEVELOPER	W.S.C.
CONSTRUCTOR	COMPLETED
W.A.C. PREPARED	
DESIGNER	
I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS	

Sydney WATER	
Case No. 81070SW	SHT 7 OF 7 SHTS.
SYDNEY WATER CORPORATION	
FOR DETAILS OF SERVICES SEE SHEET 1	