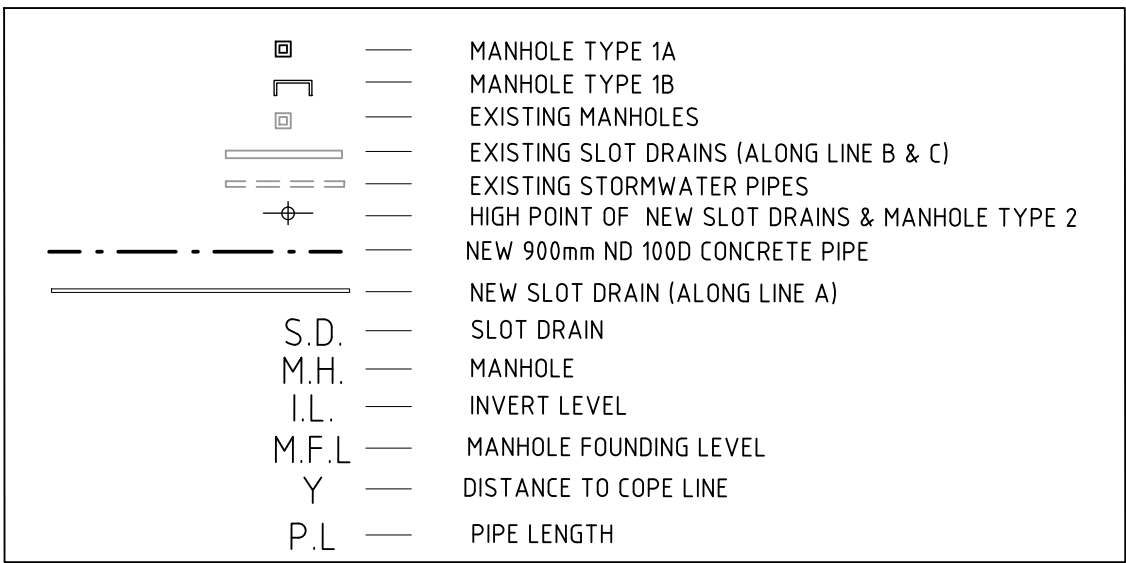


DO NOT SCALE - IF IN DOUBT, ASK

LEGEND



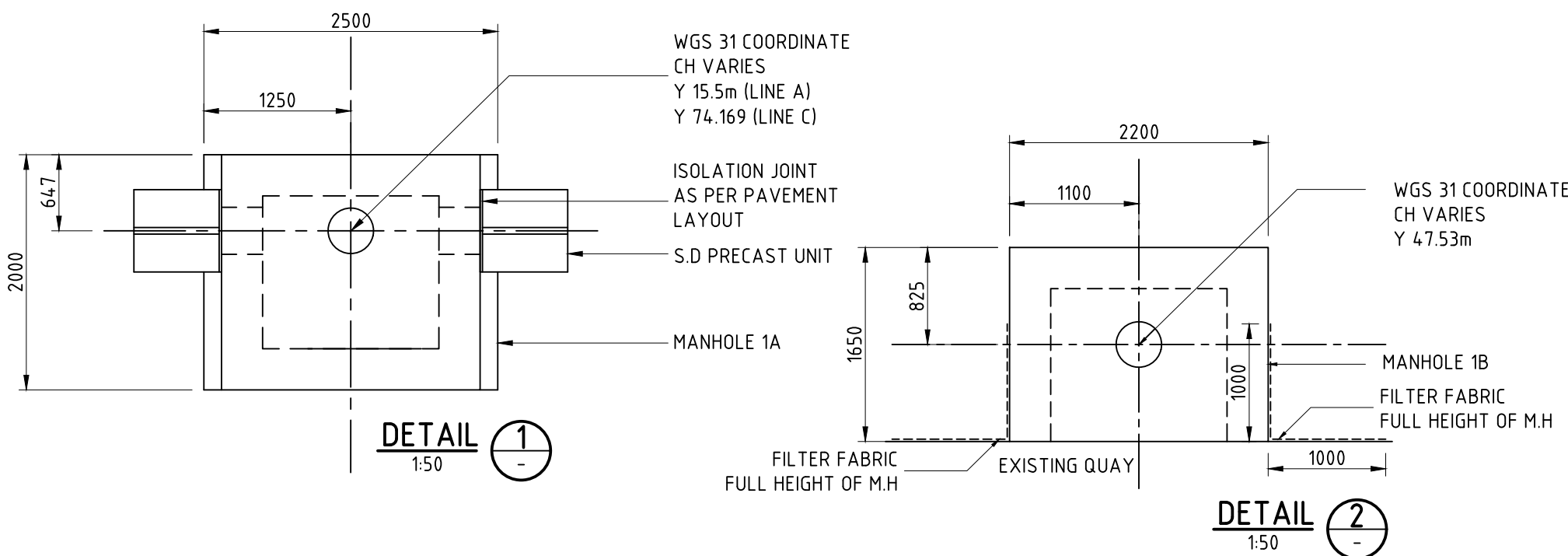
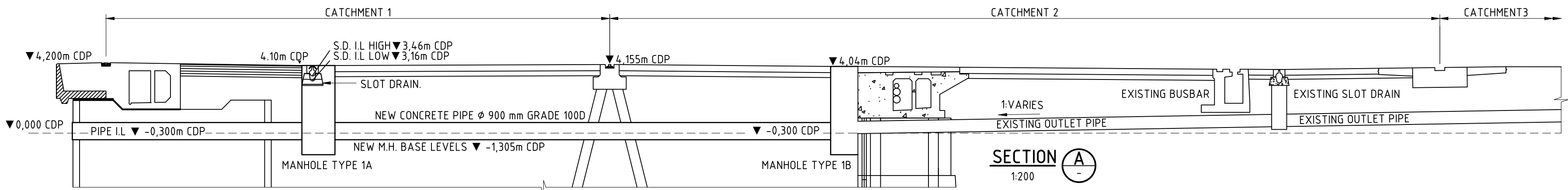
NAME	WGS84 Lo31		TYPE
	Position X	Position Y	
STW11	3306712.451	-1604.190	TYPE 1A
STW12	3306703.056	-1645.638	TYPE 2
STW13	3306693.661	-1687.087	TYPE 1A
STW14	3306686.949	-1716.698	TYPE 2
STW15	3306680.237	-1746.310	TYPE 1A
STW16	3306670.843	-1787.759	TYPE 2
STW17	3306661.448	-1829.207	TYPE 1A
STW31	3306742.095	-1618.953	TYPE 1B
STW32	3306725.363	-1692.772	TYPE 1B
STW33	3306692.029	-1839.836	TYPE 1B

NOTES:

1. THE NEW STORMWATER MANAGEMENT SYSTEM WILL CONNECT WITH THE EXISTING SYSTEM. THIS IS DONE BY USING MANHOLES TYPE 1B AS CONNECTORS, WHICH ARE LOCATED AT THE EXISTING OUTLET PIPES. THESE MANHOLES ARE TO BE FIXED INTO THE EXISTING QUAY.
2. MANHOLE TYPE 1A, 2 AND NEW SLOT DRAINS ARE FOUND ALONG LINE A.
3. THE EXISTING OUTLET PIPES ARE TO BE CHECKED FOR ANY BLOCKAGES PRIOR TO CONSTRUCTION OF MANHOLES TYPE 1B.
4. MANHOLES TYPE 2 ARE TO BE CONSTRUCTED AT EVERY SLOT DRAIN HIGH POINT. THESE ARE FOR MAINTENANCE PURPOSES.
5. INVERT LEVELS FOR THE NEW STORM WATER PIPES TO BE LEVEL AT -0.3m CDP UNLESS OTHERWISE INDICATED.
6. SLOT DRAIN INVERT LEVELS ALONG LINE A ARE I.L. HIGH 3.46 m CD ----> I.L. LOW 3.16 m CD. THUS SLOT DRAIN SLOPE IS DETERMINED BY THE DISTANCE BETWEEN OUTLET PIPES.
7. NEW STORM WATER PIPES TO BE CLASS 100D 900mm ND CONCRETE SPIGOT AND SOCKET PIPES. EACH JOINT IS TO BE WRAPPED WITH FILTER FABRIC.
8. ALL NEW STORM WATER MANHOLES ARE ORIENTATED PERPENDICULAR TO THE SETTING OUT LINE. REFER TO 1785-CO-000-C-DWG-0004-01.
9. REFER TO 1785-CO-150-C-DWG-0008-01 FOR CAISSON INTERFACE DETAILS.

PLAN : PHASE 2 STORMWATER LAYOUT

1:750



Engineers		EPCMC CONSULTANT: TNPA		ORIGINATOR: ZAA		Transnet National Ports Authority	
1785-CO-150-C-DWG-0008-01 CAISSON INTERFACE DETAILS		TITLE NAME SIGNATURE DATE		TITLE NAME SIGNATURE DATE		237 MAHATMA GANDHI ROAD	
1785-CO-150-C-DWG-0007-01 MANHOLE 2 CONCRETE DETAILS		LEAD DES. ENG. DM 19/07/26		DRAWN DM 19/07/26		DURBAN	
1785-CO-150-C-DWG-0006-01 MANHOLE 1B CONCRETE DETAILS		ENG. COORD. MC/WW 19/07/26		CHECKED MC/WW 19/07/26		P.O. BOX 31683, DURBAN	
1785-CO-150-C-DWG-0005-01 MANHOLE 1A CONCRETE DETAILS		ENG. MANAGER		ENG. COORD.		TEL: 031 361 8852	
1785-CO-150-C-DWG-0004-01 SLOT DRAIN TYPICAL DETAILS		AREA MANAGER		DISCIP. ENG.		PORT OF DURBAN	
1785-CO-150-C-DWG-0003-01 STORM WATER PHASE 3		PROJECT MGR.		ENG. MANAGER		DCT BERTHS 203 to 205 RECONSTRUCTION	
1785-CO-150-C-DWG-0001-01 STORM WATER PHASE 1		DIVISION		AREA MANAGER		DEEPENING AND LENGTHENING	
DRAWING NO. REFERENCE		NO. DESCRIPTION BY CHK'D APP'D DATE		PR.ENG. / PR.TECH. NAME J. ZIETSMAN DATE 19/07/26		STORM WATER	
REFERENCE DRAWINGS		REVISIONS / ISSUE AUTHORIZATION		SIGNATURE DATE		GENERAL ARRANGEMENT	
1 7 8 5 C O 1 5 0 C D W G 0 0 0 2 0 1 T 0 A		PROJECT NO DIS CODE AREA DISP TYPE DRG NO SHEET STATUS REV		REG. NUMBER 760293		PHASE 2 (BERTH 204)	
1 7 8 5 C O 1 5 0 C D W G 0 0 0 2 0 1 T 0 A		This Document including all design and information therein is Confidential Intellectual Property of ZAA Engineering Projects and Naval Architecture (Pty) Ltd. Copyright and all other rights are reserved by ZAA. This Document may only be used for its intended purpose.		SCALE : 1:100		PROJECT NUMBER DV FBS DIS TYPE DRG NO. SHT. REV. ID	
1 7 8 5 C O 1 5 0 C D W G 0 0 0 2 0 1 T 0 A		2 1 2 2 8 3 0 1 1 5 0 C G A 1 0 0 1 0 1 0 A DM					