INLET WORKS

MARK	DIAMETER	MATERIAL	DESCRIPTION	QUANTITY
IW/1	150mm	M.S.	PIPE 450mm O.A. ONE END FLANGED, OTHER END PLAIN WITH P.F. 100mm FROM PLAIN END	2
IW/2	160mm	C.I.	FLANGE ADAPTOR TO SUIT 160mm DIAMETER uPVC CLASS 6 PIPES	2
IW/3	100mm	M.S.	PIPE 1200mm O.A. , ONE END FLANGED, OTHER END PLAIN	1
IW/4	100mm	M.S.	PIPE 600mm O.A. , ONE END FLANGED, OTHER END PLAIN	1
IW/5	100mm	C.I.	D.F. RESILIENT SEAL GATE VALVE 254mm O.A. WITH CAP TOP TO SUIT EXTENSION SPINDLE	2
IW/6	N/A	G.M.S.	EXTENSION SPINDLE 1230mm O.A. COMPLETE WITH HANDWHEEL AND FIXING BRACKETS. DISTANCE BETWEEN WALL AND SPINDLE = 330mm	2
IW/7	150mm	M.S.	D.F. 45° MEDIUM RADIUS BEND BOTH LEGS 430mm C TO F.	2
IW/8	200mm	C.I.	FLANGE ADAPTOR TO SUIT 200mm DIAMETER uPVC CLASS 6 PIPES	1
IW/9	200mm	M.S.	PIPE 450mm O.A. ONE END FLANGED, OTHER END PLAIN WITH P.F. 100mm FROM PLAIN END	1

SLUDGE DRAW OFF BOX

MARK	DIAMETER	MATERIAL	DESCRIPTION	QUANTITY
SDB/1	150mm	C.I.	FLANGE ADAPTOR TO SUIT 150mm DIAMETER uPVC CLASS 6 PIPES	2
SDB/2	150mm	M.S.	FLANGED RADIAL TEE 560mm LONG WITH BRANCH 368mm C OF F	1
SDB/3	150mm	M.S.	D.F. PIPE 650mm O.A. WITH P.F. 325mm FROM ONE END	1
SDB/4	150mm	C.I.	D.F. RESILIENT SEAL GATE VALVE 279mm O.A. WITH CAP TOP TO SUIT EXTENSION SPINGLE	1
SDB/5	150mm	M.S.	D.F. PIPE 1055mm O.A.	1
SDB/6	150mm	M.S.	BLANK FLANGE	1
SDB/7	N/A	G.M.S.	EXTENSION SPINDLE 1725mm O.A. COMPLETE WITH HANDWHEEL AND FIXING BRACKET. DISTANCE BETWEEN SPINDLE AND WALL = 250mm	1
SDB/8	150mm	M.S.	PIPE 450mm O.A. ONE END FLANGED OTHER END PLAIN WITH P.F. 100mm FROM PLAIN END	1

RECIRCULATION PIPE INLET

MARK	DIAMETER	MATERIAL	DESCRIPTION	QUANTITY
RPI/1	100mm	C.I.	D.F. RESILIENT SEAL GATE VALVE 254mm O.A. COMPLETE WITH HANDWHEEL.	1
RPI/2	100mm	M.S.	D.F. PIPE 800mm O.A.	1
RPI/3	100mm	M.S.	D.F. 45° BEND 102mm C TO F AND 919mm STRAIGHT PIPE BETWEEN BENDS AS SHOWN ON THE DRAWING	1
RPI/4	100mm	C.I.	FLANGE ADAPTOR TO SUIT 110mm DIAMETER uPVC CLASS 6 PIPES	1

ANAEROBIC POND INLET

MARK	DIAMETER	MATERIAL	DESCRIPTION	QUANTITY
API/1	150mm	C.I.	FLANGED ADAPTOR TO SUIT 160mm DIAMETER uPVC CLASS 6 PIPES	1
API/2	150mm	M.S.	PIPE 1500mm O.A. ONE END FLANGED OTHER END PLAIN WITH P.F. 400mm FROM FLANGED END.	1

PRIMARY POND INLET

MARK	DIAMETER	MATERIAL	DESCRIPTION	QUANTITY
PPI/1	200mm	C.I.	FLANGED ADAPTOR TO SUIT 200mm DIAMETER uPVC CLASS 6 PIPES	2
PPI/2	200mm	M.S.	PIPE 1500mm O.A. ONE END FLANGED OTHER END PLAIN WITH P.F. 400mm FROM FLANGED END.	2

BOX DETAIL 1 & 2

MARK	DIAMETER	MATERIAL	DESCRIPTION	QUANTITY
BD/1	200mm	C.I.	FLANGED ADAPTOR TO SUIT 200mm DIAMETER uPVC CLASS 6 PIPES	2
BD/2	200mm	M.S.	PIPE 450mm O.A. ONE END FLANGED OTHER END PLAIN WITH P.F. 100mm FROM PLAIN END	2

RECYCLE PUMPSTATION

MARK	DIAMETER	MATERIAL	DESCRIPTION	QUANTITY
RP/1	160mm	C.I.	FLANGE ADAPTOR TO SUIT 160mm DIAMETER uPVC CLASS 6 PIPE	1
RP/2	100mm	C.I.	FLANGE ADAPTOR TO SUIT 110mm DIAMETER uPVC CLASS 6 PIPE	1
RP/3	150mm	M.S.	PIPE 650mm O.A. , WITH P.F. 325mm FROM ONE END.	1
RP/4	150mm	C.I.	D.F. RESILIENT SEAL GATE VALVE 279mm O.A. WITH CAP TOP TO SUIT EXTENSION SPLINDLE.	1
RP/5	N/A	G.M.S.	EXTENSION SPINDLE 2425mm O.A. COMPLETE WITH HANDWHEEL AND FIXING BRACKETS. DISTANCE BETWEEN SPINDLE AND WALL = 250mm	1
RP/6	150mm	M.S.	PIPE 1500mm O.A. ONE END FLANGED OTHER END PLAIN WITH P.F. 400mm FROM FLANGED END	1
RP/7	110mm	M.S.	PIPE 650mm O.A. , WITH P.F. 325mm FROM ONE END.	1

OVERFLOW STRUCTURE 4

MARK	DIAMETER	MATERIAL	DESCRIPTION	QUANTITY
OS/1	150mm	M.S.	PIPE 500mm O.A. ONE END FLANGED, OTHER END PLAIN WITH P.F. 100mm FROM PLAIN END	1
OS/2	150mm	C.I.	FLANGE ADAPTOR TO SUIT 160mm DIAMETER uPVC CLASS 6 PIPES	1

IRRIGATION SUMP

MARK	DIAMETER	MATERIAL	DESCRIPTION	QUANTITY
IS/1	150mm	C.I.	D.F. RESILIENT SEAL GATE VALVE 279mm O.A. WITH CAP TOP TO SUIT EXTENSION SPINDLE	2
IS/2	150mm	C.I.	FLANGE ADAPTOR TO SUIT 160mm DIAMETER uPVC CLASS 6 PIPES	2
IS/3	150mm	M.S.	D.F. PIPE 700mm O.A. WITH P.F. 350mm FROM ONE END	4
IS/4	50-230mm	M.S.	FLANGED BELLMOUTH 150mm O.A. 230mm DIAMETER AT BELLMOUTH END	2
IS/5	150mm	M.S.	D.F. 90° BEND 203mm C TO F	2
IS/6	150mm	M.S.	D.F. PIPE 2400mm O.A.	2
IS/7	150mm	M.S.	VIKING JOHNSON AS SIMILAR FLANGE ADAPTOR TO SUIT 150mm DIAMETER M.S. PIPES	4
IS/8	150mm	M.S.	PLAIN ENDED PIPE 2800mm O.A. TO BE CUT TO THE CORRECT LENGTH ON SITE	2
IS/9	150mm	M.S.	D.F. PIPE 600mm O.A.	2
IS/10	150mm	M.S.	BLANK FLANGE	2
IS/11	150mm	M.S.	FLANGED 22.5° BEND	2
IS/12	150mm	C.I.	FLANGE ADAPTOR TO SUIT 160mm DIAMETER uPVC CLASS 6 PIPES	2
IS/13	150mm	M.S.	PIPE 1500mm O.A. ONE END FLANGED, OTHER END PLAIN WITH P.F. 400mm FROM FLANGED END	2
IS/14	N/A	G.M.S.	EXTENSION SPINDLE 2425mm O.A. COMPLETE WITH HANDWHEEL AND FIXING BRACKETS. DISTANCE BETWEEN SPINDLE AND WALL = 250mm	1
IS/15	N/A	G.M.S.	EXTENSION SPINDLE 1725mm O.A. COMPLETE WITH HANDWHEEL AND FIXING BRACKET. DISTANCE BETWEEN SPINDLE AND WALL = 250mm	1

CHLORINE CONTACT CHANNEL

MARK	DIAMETER	MATERIAL	DESCRIPTION	QUANTITY
CC/1	150mm	M.S.	PIPE 500mm O.A. ONE END FLANGED, OTHER END PLAIN WITH P.F. 100mm FROM PLAIN END	3
CC/2	150mm	C.I.	FLANGE ADAPTOR TO SUIT 160mm DIAMETER uPVC CLASS 6 PIPES	3
CC/3	100mm	M.S.	PIPE 400mm O.A. ONE END FLANGED, OTHER END PLAIN WITH P.F. 100mm FROM PLAIN END	1
CC/4	100mm	C.I.	D.F. RESILIENT SEAL GATE VALVE 254mm O.A. WITH CAP TOP TO SUIT EXTENSION SPINDLE	1
CC/5	N/A	G.M.S.	EXTENSION SPINDLE 1280mm O.A. COMPLETE WITH HANDWHEEL AND FIXING BRACKETS. DISTANCE BETWEEN WALL AND SPINDLE = 250mm	1
CC/6	150mm	C.I.	D.F. RESILIENT SEAL GATE VALVE 279mm O.A. WITH CAP TOP TO SUIT EXTENSION SPINDLE	1
CC/7	150mm	M.S.	PIPE 400mm O.A. ONE END FLANGED, OTHER END PLAIN WITH P.F. 100mm FROM PLAIN END	1

PONDS CONNECTIONS

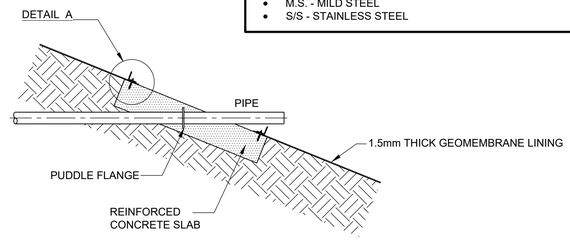
MARK	DIAMETER	MATERIAL	DESCRIPTION	QUANTITY
PC/1	200mm	C.I.	FLANGE ADAPTOR TO SUIT 200mm DIAMETER uPVC CLASS 6 PIPES	7
PC/2	200mm	M.S.	PIPE 1500mm O.A. ONE END FLANGED, OTHER END PLAIN WITH P.F. 100mm FROM PLAIN END	7
PC/3	200mm	M.S.	SOCKET ENDED RESILIENT SEAL GATE VALVE 405mm O.A WITH CAP TOP TO SUIT EXTENSION SPINDLE, SOCKET ENDS TO SUIT 200mm uPVC CLASS 6 PIPE	3

NOTES:

- ALL WORKS TO BE DONE ACCORDING TO SANS 1200
- ANY DISCREPANCIES TO BE COMMUNICATED TO THE ENGINEER PRIOR TO COMMENCEMENT OF THE WORKS
- PIPE FITTINGS UP TO 150mm NOMINAL BORE TO BE MANUFACTURED ACCORDING TO SABS 62. PIPE FITTINGS ABOVE 150mm NOMINAL BORE TO BE MANUFACTURED TO SANS 719.

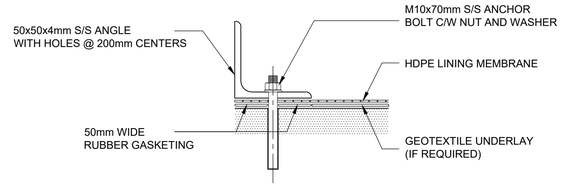
ABBREVIATIONS:

- D.F. - DOUBLE FLANGED
- O.A. - OPEN ALL
- C.I. - CAST IRON
- M.S. - MILD STEEL
- S/S - STAINLESS STEEL



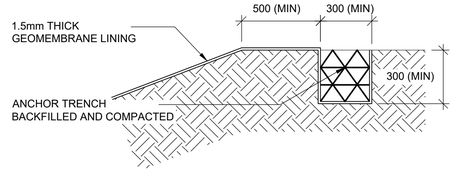
ANGLED PIPE FIXING DETAIL

N.T.S.



DETAIL A

N.T.S.



ANCHOR TRENCH DETAIL

N.T.S.

FOR TENDER

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REVISION SCHEDULE

No	DATE	DESCRIPTION	DRW	CHK
A	2025/12	DETAIL DESIGN	CH	HP
B	2026/02	FOR TENDER	CH	HP

CONSULTANT

SIGNATURE _____ | PR No 20050275 | DATE _____

CLIENT

SIGNATURE _____ | DATE _____

DESIGNED	DRAWN	CHECKED
HP	CH	SvW

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PROJECT

UPGRADING OF THE CARNARVON OXIDATION POND SYSTEM

DRAWING DESCRIPTION

TYPICAL DETAIL DRAWING SECTIONS & PIPE SCHEDULE (SHEET 1 OF 1)

SCALE FOR REDUCED PLAN

0 5 10 20 30 40 50
50mm ON ORIGINAL PLAN

DATE	SCALE	ORIGINAL SIZE
2026/02	AS SHOWN	A1

DRAWING NUMBER	REV
P08403-W-TD-001	B

C:\Users\christiaan.hhk\ix engineers\P08403 Carnarvon Oxidation Ponds - P08403 Carnarvon Oxidation Ponds\2 Working Transformation\Detailed Design\Detail Design Drawings\P08403-W-TD-001 RevA (Typical Detail Drawings & Pipe Schedule).dwg

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