



CLIENT <b>BADGER MINING &amp; CONSULTING (PTY) LTD</b>  TITLE  <div style="text-align: center;"> <b>MOOIPLAATS COAL DISCARD DUMP GENERAL ARRANGEMENT</b> </div>	DESIGNED	N.S.	MAR.09
	DRAWN	S.A.	MAR.09
	CHECKED	-	-
	SCALE	1:1500	
	DRAWING No.	T994-001	REVISION 3





X+2947750

X+2947750

X+2948000

X+2948000

X+2948250

X+2948250

X+2948500

X+2948500

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REV	BY	DATE	DESCRIPTION	DRG.No.	REFERENCE DRAWINGS	DRG.No.	REFERENCE DRAWINGS
1	NS/SA	07-05-2009	DRAWING UPDATED	001	GENERAL ARRANGEMENT		
2	NS/SA	13-05-2009	SLURRY POND 2 WALL ALTERED				
3	NS/SA	22-07-2009	DUMP ALTERED TO SUIT LOADING BIN				

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TITLE

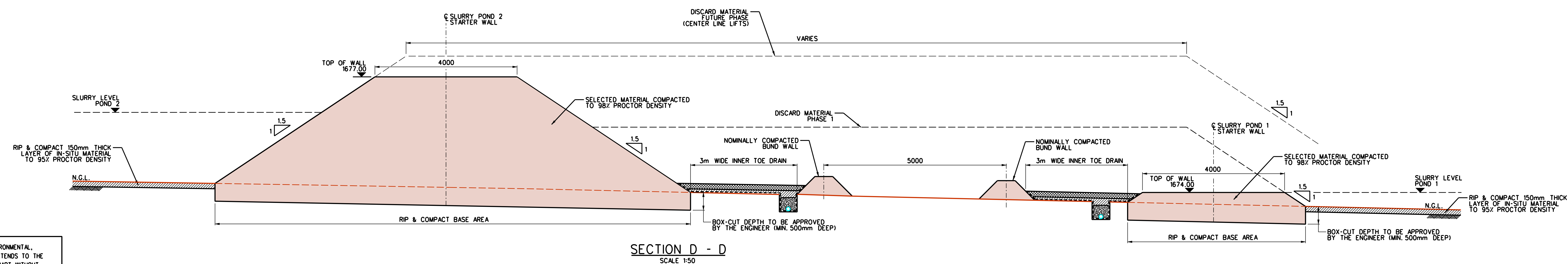
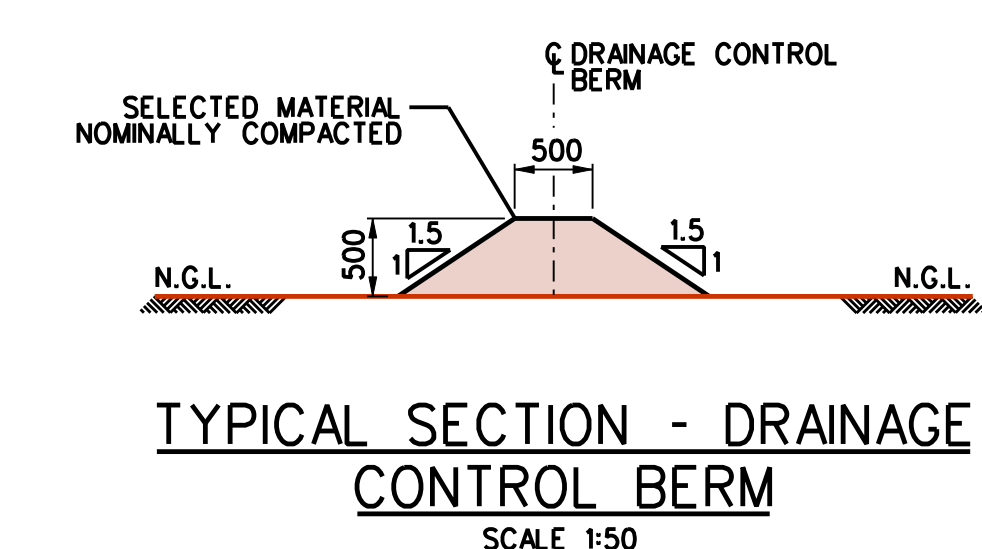
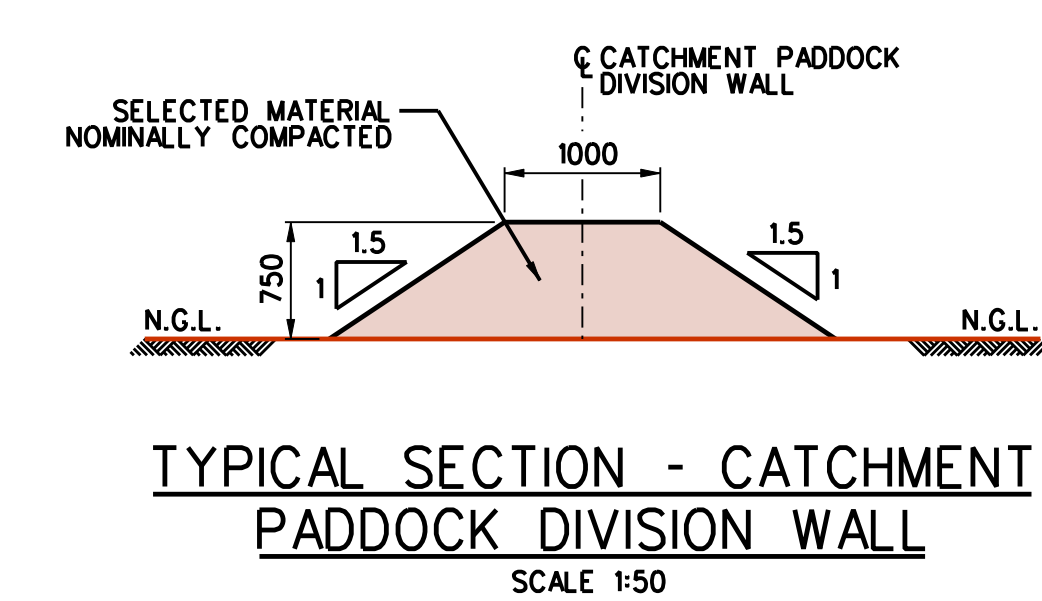
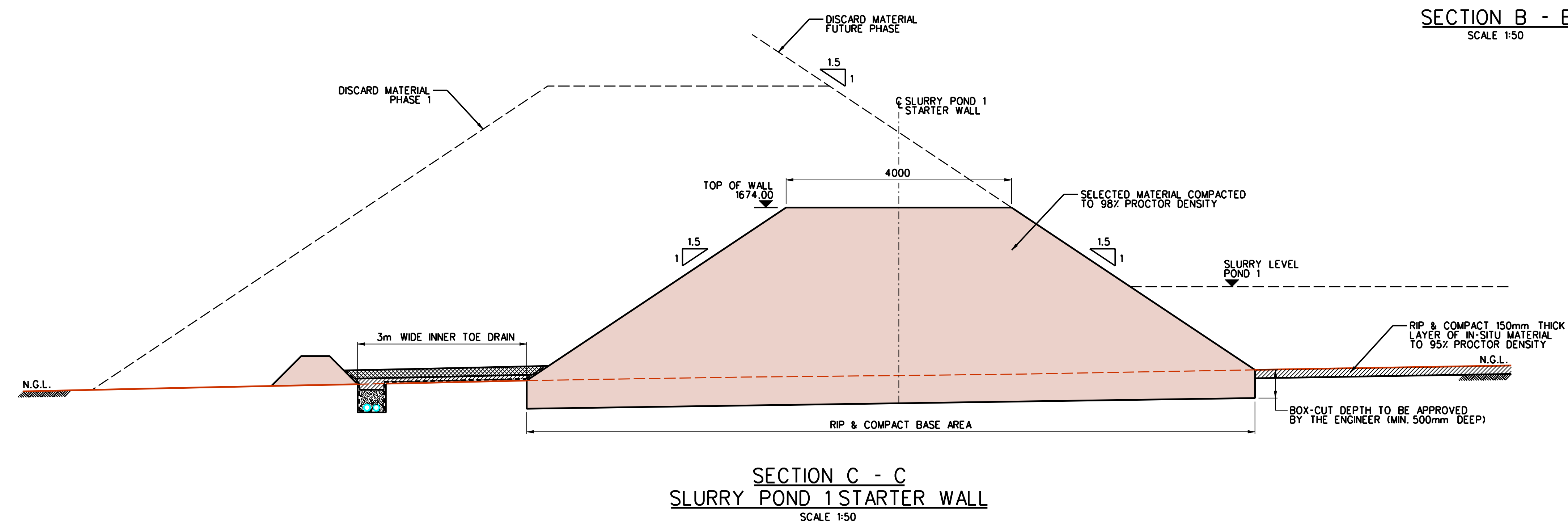
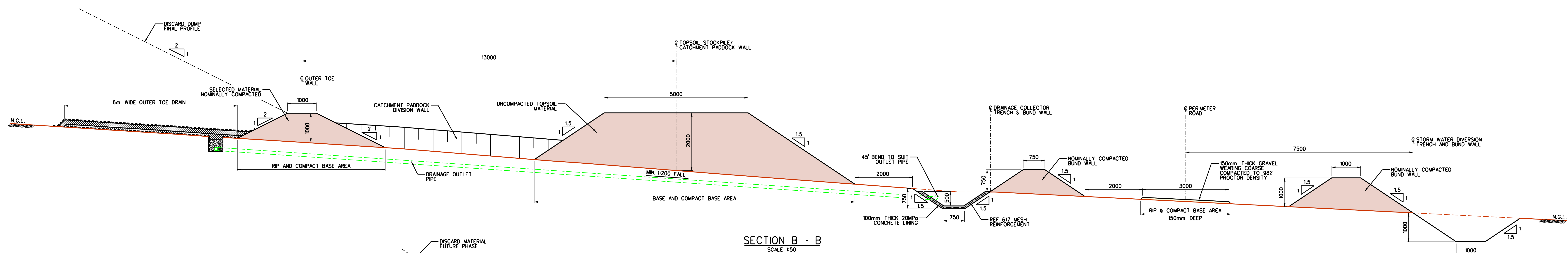
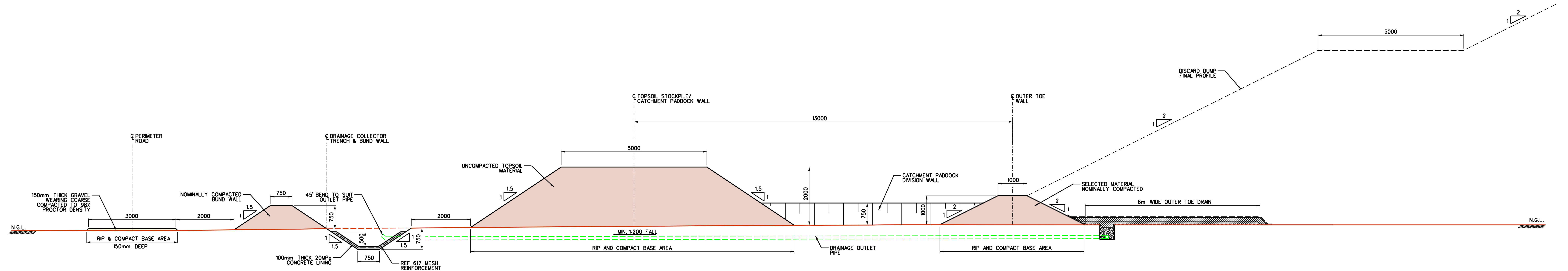
MOOIPLAATS COAL  
DISCARD DUMP  
SETTING OUT CO-ORDINATES

DESIGNED	BY	DATE
	N.S.	MAR.09
DRAWN		
	S.A.	MAR.09
CHECKED		
SCALE	1:1500	
DRAWING No.	T994-002	REVISION 3

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**DO NOT SCALE**

SETTING OUT CO-ORDINATES		
OUTER TOE WALL		
POINT	Y+	X+
OTW1	88813.454	2947861.837
OTW2	90134.511	2947914.856
OTW3	90298.305	2948273.348
OTW4	90203.750	2948482.089
OTW5	90074.438	2948494.050
OTW6	90063.708	2948496.102
OTW7	89954.889	2948505.169
OTW8	89872.628	2948414.759
OTW9	89558.058	2948265.880
OTW10	89612.606	2948183.168
OTW11	89648.718	2947980.639
CATCHMENT PADDOCK WALL/TOPSOIL STOCKPILE		
POINT	Y+	X+
CPW1	88810.193	2947848.029
CPW2	90143.413	2947903.081
CPW3	90312.595	2948273.228
CPW4	90212.407	2948494.438
CPW5	90076.473	2948508.899
CPW6	90063.879	2948508.653
CPW7	89949.437	2948518.639
CPW8	89864.153	2948425.060
CPW9	89647.921	2948274.757
CPW10	89598.938	2948185.766
CPW11	89636.864	2947973.057
SLURRY POND 1		
POINT	Y+	X+
1SP1	89997.493	2948108.050
1SP2	90033.379	2948174.632
1SP3	89981.833	2948230.069
1SP4	89823.861	2948119.704
1SP5	89865.979	2948089.707
SLURRY POND 2		
POINT	Y+	X+
2SP1	90047.427	2948190.819
2SP2	90096.361	2948282.005
2SP3	90075.659	2948324.132
2SP4	90019.331	2948261.871
2SP5	89996.489	2948245.820
RETURN WATER DAM		
POINT	Y+	X+
RWD1	90091.005	2947800.869
RWD2	90112.569	2947848.840
RWD3	90107.196	2947879.359
RWD4	89953.772	2947853.847
RWD5	89959.938	2947810.470
RWD6	90012.843	2947787.955
SILT TRAP		
POINT	Y+	X+
ST1	89959.938	2947810.470
ST2	89952.772	2947853.847
ST3	89913.307	2947847.327
ST4	89916.330	2947829.029
TEMPORARY RETURN WATER DAM		
POINT	Y+	X+
TRWD1	89954.166	2947990.250
TRWD2	89959.868	2948014.591
TRWD3	89935.527	2948020.293
TRWD4	89929.825	2947995.952
PENSTOCK INTAKE		
POINT	Y+	X+
PS1	90023.546	2948242.429
PS2	90003.087	2948155.089
SPLITTER BOX		
POINT	Y+	X+
SB1	89934.705	2947858.121
DRAINAGE COLLECTOR SUMP		
POINT	Y+	X+
DCS1	89987.951	2948187.569
LINK DRAIN OUTLET		
POINT	Y+	X+
LD1	89988.613	2947938.727
DRAINAGE COLLECTOR TRENCH		
POINT	Y+	X+
DO1	90309.227	2948240.631
DO2	90226.164	2948057.479
DO3	90135.940	2947891.208
DO4	89994.419	2947867.823
DO5	89819.090	2947838.856
DO6	89636.472	2947960.396
DO7	89600.437	2948117.538
DO8	89671.696	2948303.969
DO9	89828.503	2948413.051
D10	89908.345	2948489.130
D11	90044.455	2948520.378
SLURRY POND 1 INNER TOE DRAIN		
POINT	Y+	X+
SP1TD1	90001.546	2948130.072
SP1TD2	89905.929	2948168.852
SLURRY POND 2 INNER TOE DRAIN		
POINT	Y+	X+
SP2TD1	90069.942	2948246.696
SP2TD2	90043.786	2948276.808





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REV	BY	DATE	DESCRIPTION	DRC No.	REFERENCE DRAWINGS	DRC No.	REFERENCE DRAWINGS
1	NS/SA	07-05-2009	DRAWING UPDATED	001	GENERAL ARRANGEMENT		
2	NS/SA	13-05-2009	SLURRY POND 2 WALL ALTERED	004 SHT 1	DRAINAGE DETAILS		
				004 SHT 2	DRAINAGE COLLECTOR SUMP DETAILS		
				011	DRAINAGE COLLECTOR TRENCH LONG SECTION & DETAILS		

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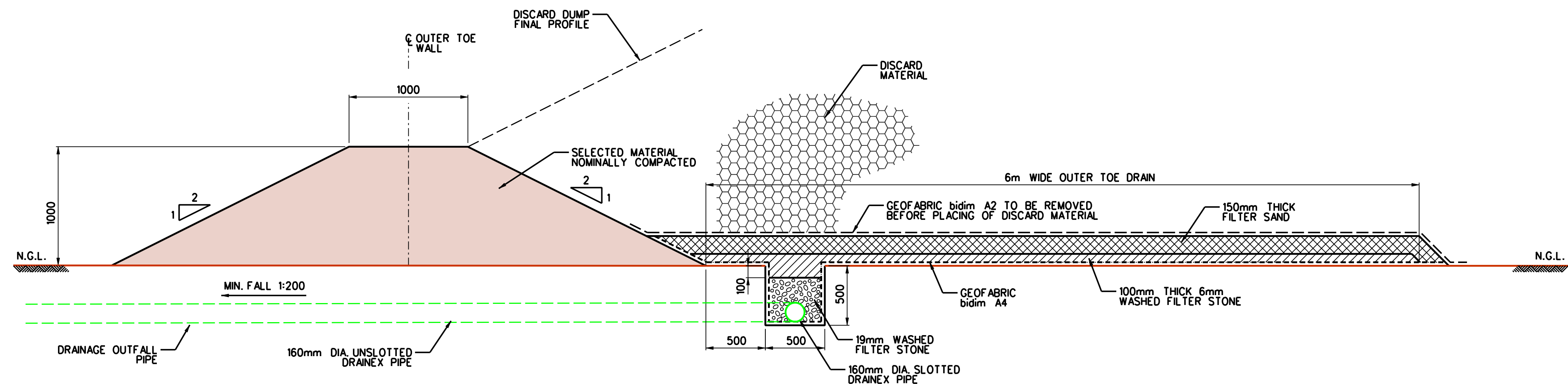
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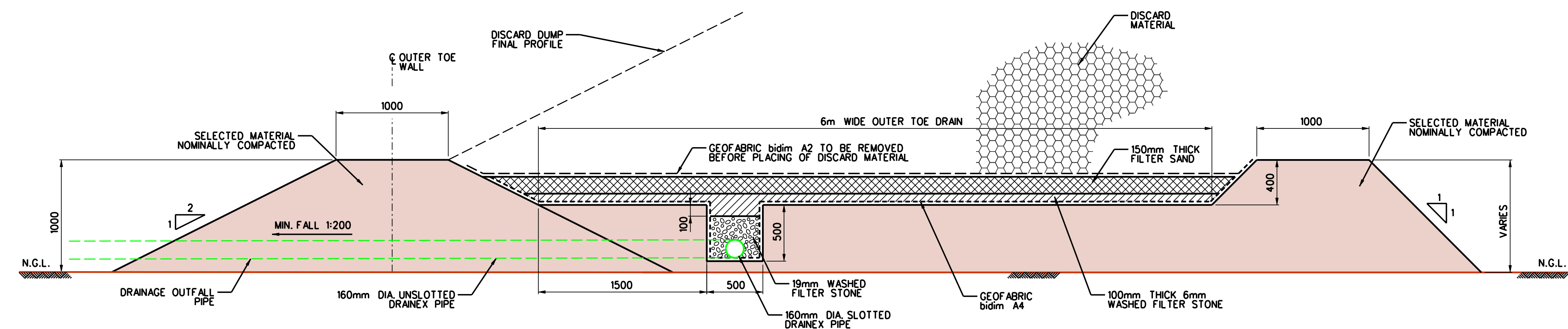
MOOIPLAATS COAL DISCARD DUMP  
EARTHWORKS  
SECTIONS & DETAILS

DESIGNED	N.S.	MAR.09
DRAWN	N.S.	MAR.09
CHECKED		
SCALE	A0-150	
DRAWING No.	T994-003	
	REVISION	2

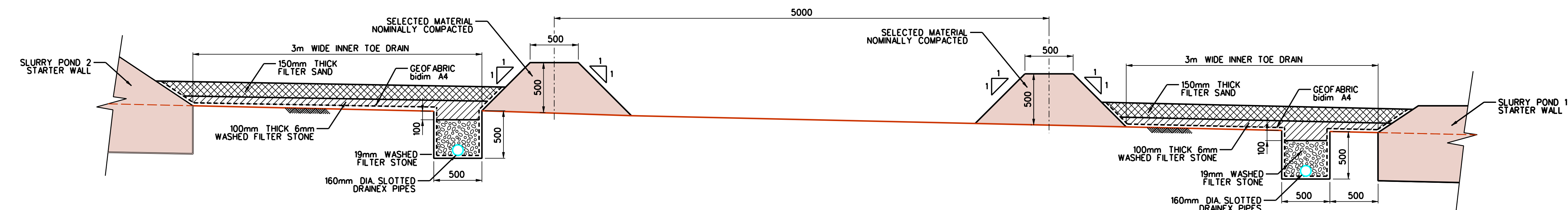




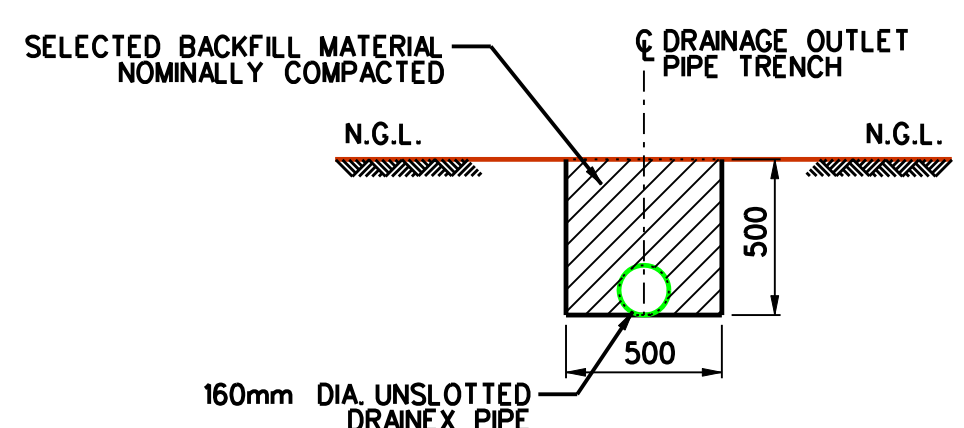
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SCALE 1:25



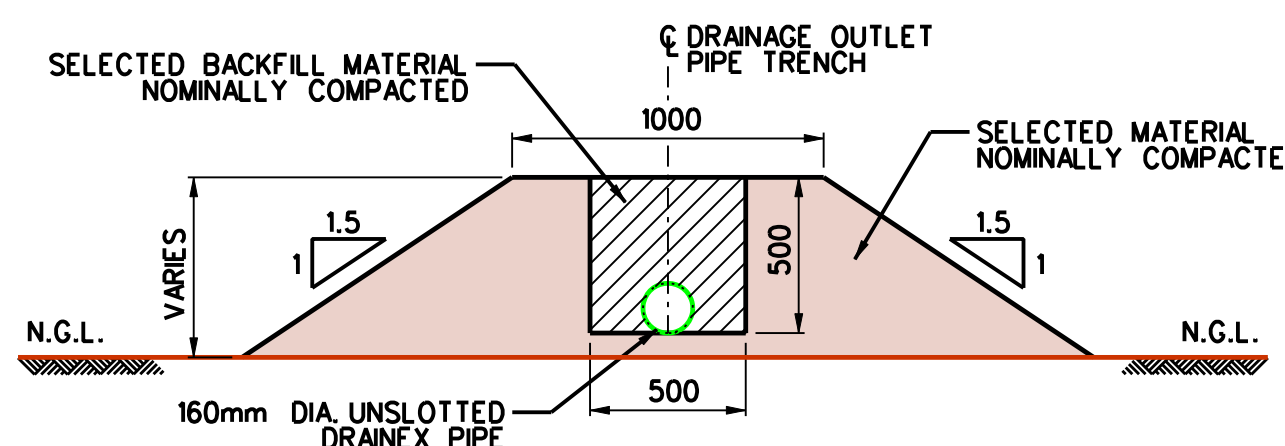
SECTION - OUTER TOE DRAIN ON PLATFORM  
(BETWEEN DRAINAGE OUTLET PIPES 4 AND 7)  
SCALE 1:25



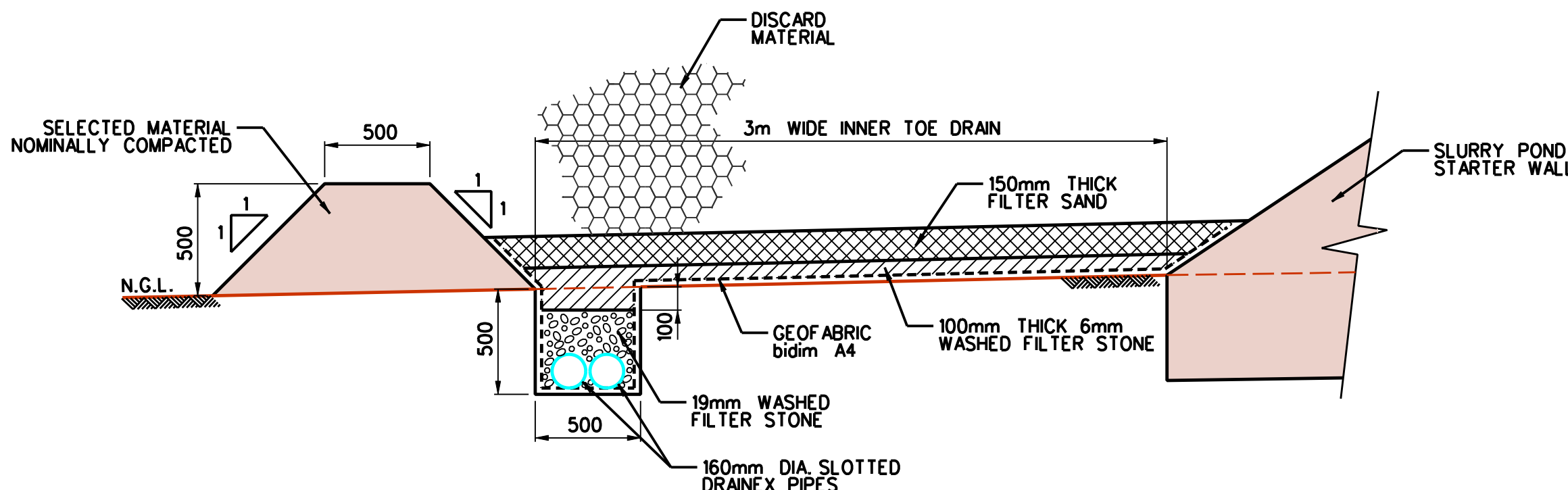
SECTION - INNER TOE DRAINS BETWEEN  
SLURRY POND 1 & 2  
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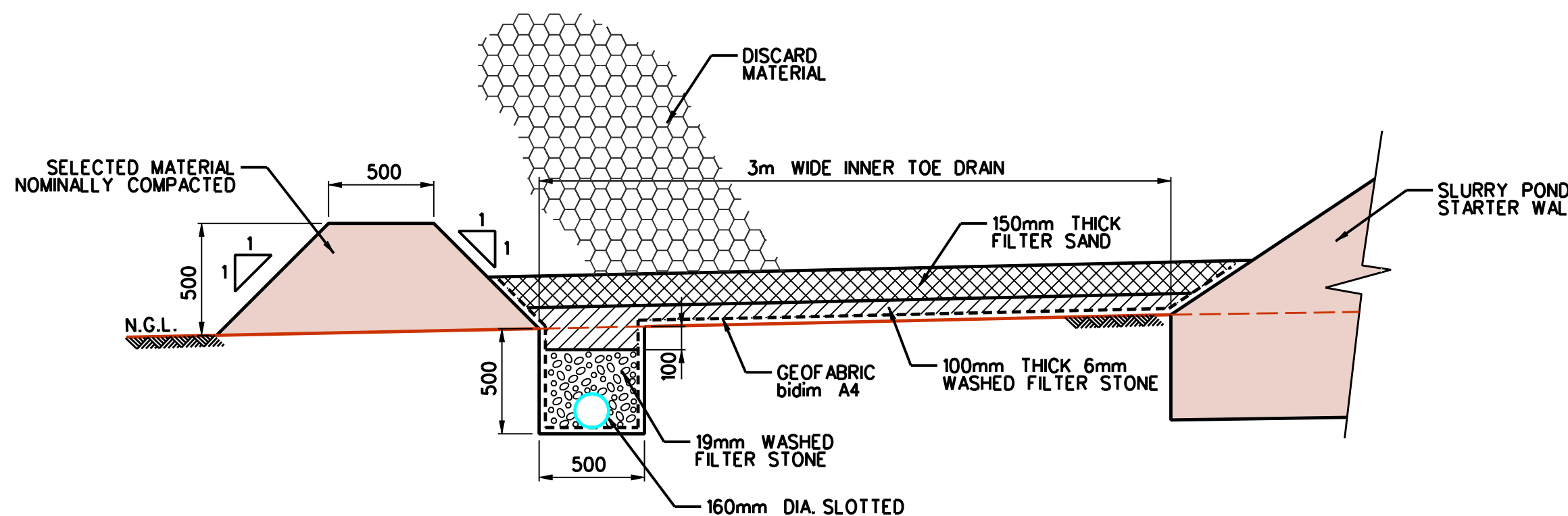
SECTION - DRAINAGE OUTLET PIPE  
BELOW N.G.L.  
SCALE 1:25



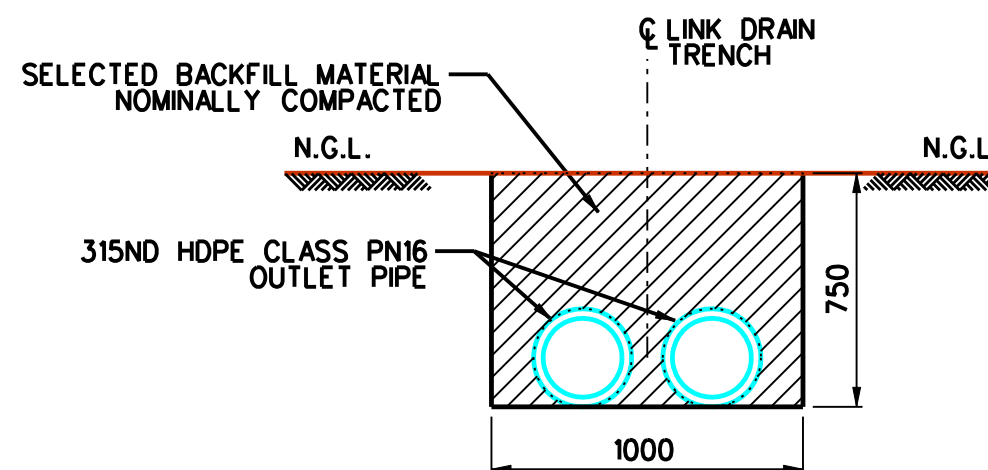
SECTION - DRAINAGE OUTLET PIPE  
ABOVE N.G.L.  
SCALE 1:25



SECTION - INNER TOE DRAIN ALONG  
SLURRY POND 1 PERIMETER  
SCALE 1:25



SECTION - INNER TOE DRAIN ALONG  
SLURRY POND 2 PERIMETER  
SCALE 1:25



SECTION - LINK DRAIN  
SCALE 1:25

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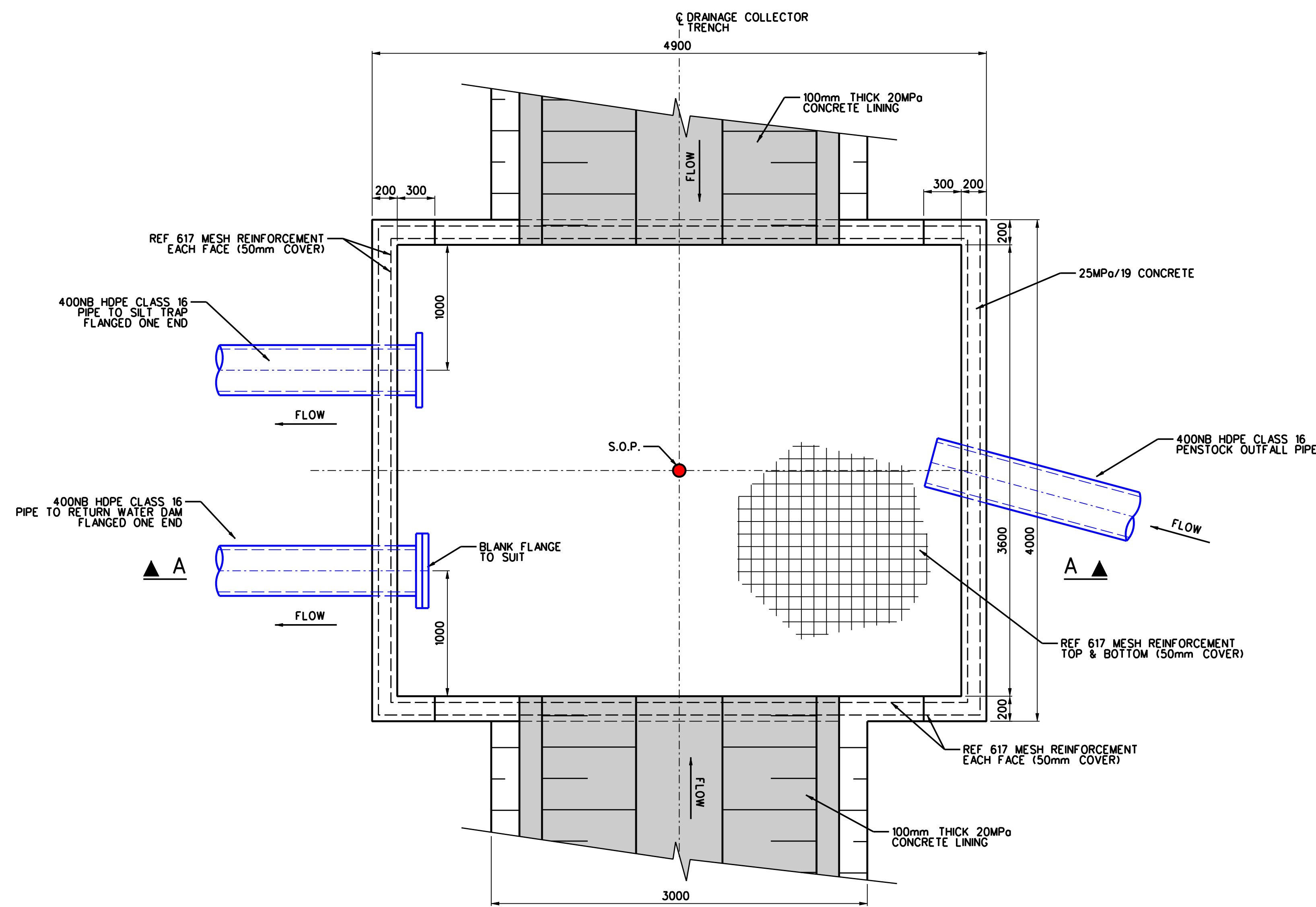
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REV	BY	DATE	DESCRIPTION	DRG.No.	REFERENCE DRAWINGS	DRG.No.	REFERENCE DRAWINGS	CLIENT	DESIGNED	BY	DATE
1	NS/SA	07-05-2009	DRAWING UPDATED	003	EARTHWORKS SECTIONS & DETAILS			BADGER MINING & CONSULTING (PTY) LTD		N.S.	APR.09
2	NS/SA	13-05-2009	SLURRY POND 2 WALL ALTERED	004 SHT 2	DRAINAGE COLLECTOR SUMP DETAILS				DRAWN	N.S.	APR.09
								TITLE	CHECKED		
								MOOIPLAATS COAL DISCARD DUMP DRAINAGE DETAILS	SCALE A0-1:25		
									DRAWING No. T994-004 SHT.1	REVISION	2

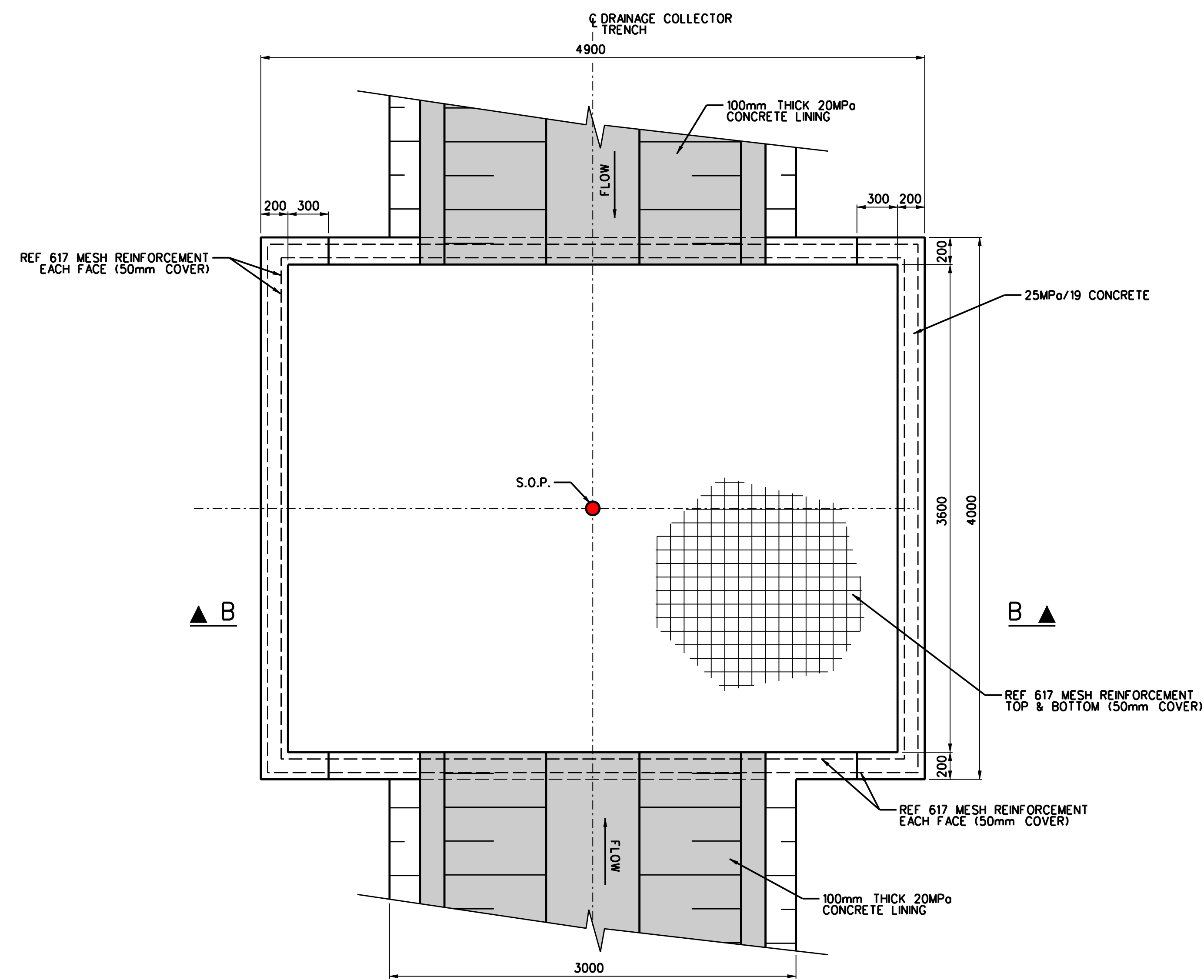
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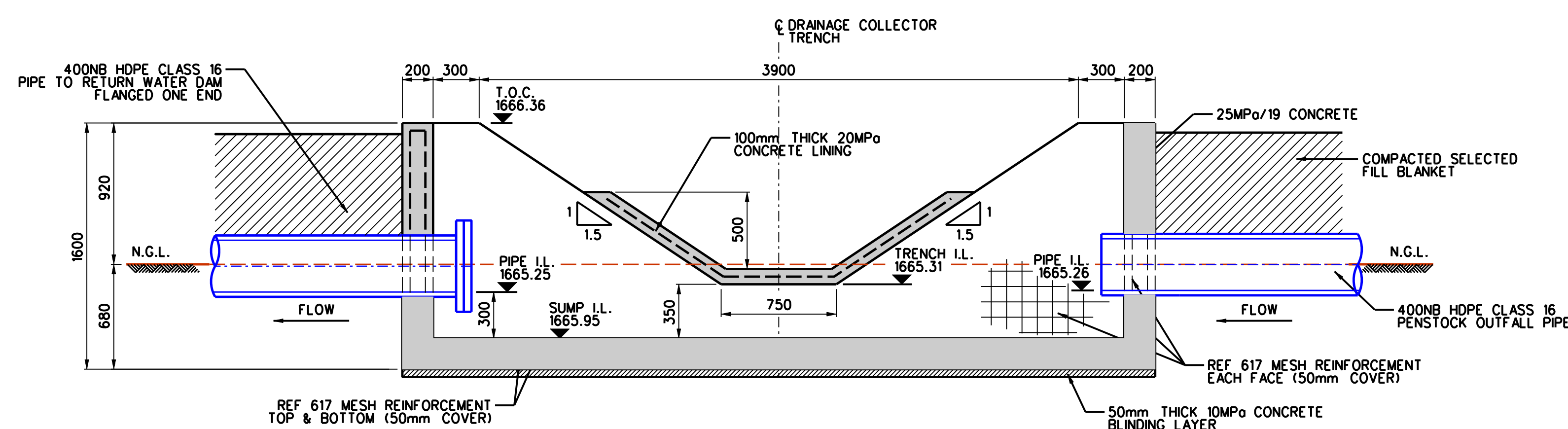




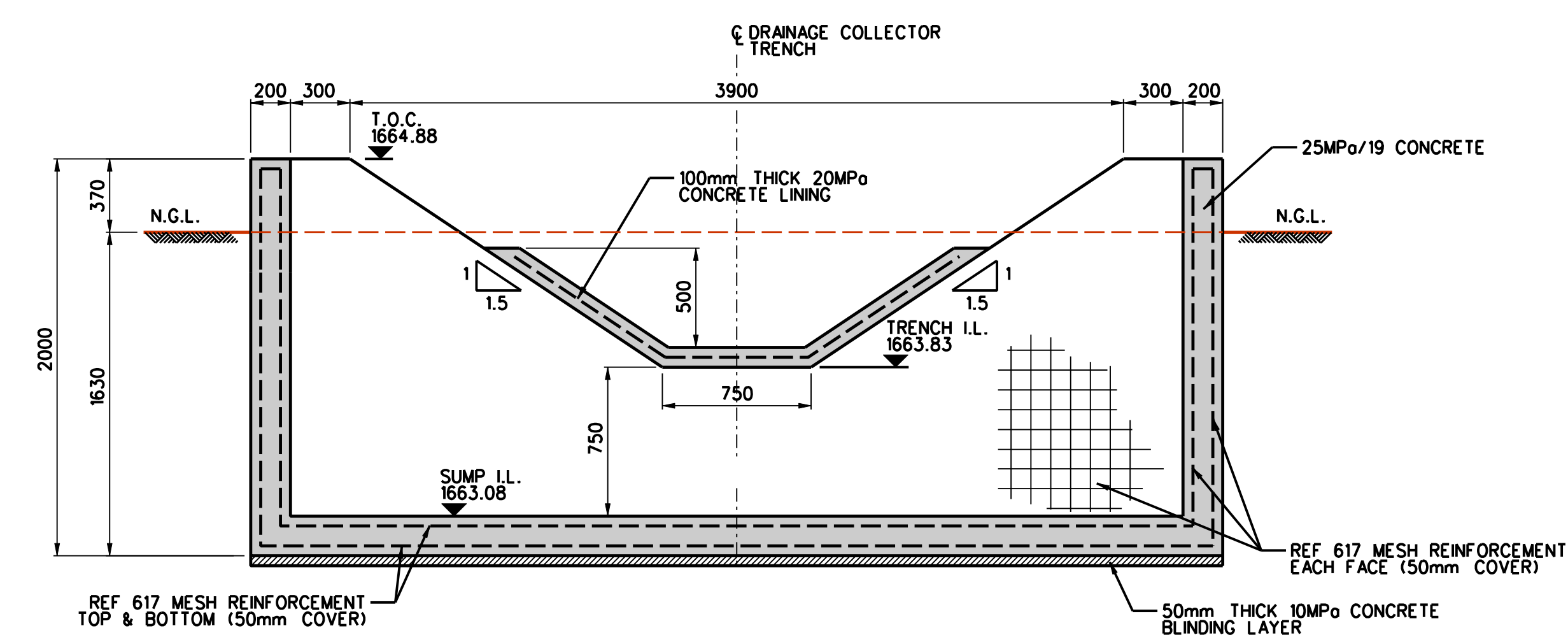
PLAN - DRAINAGE COLLECTOR SUMP 1/  
SPLITTER BOX  
SCALE 1:25



PLAN - DRAINAGE COLLECTOR SUMP 2  
SCALE 1:25



SECTION A - A  
SCALE 1:25



SECTION B - B  
SCALE 1:25

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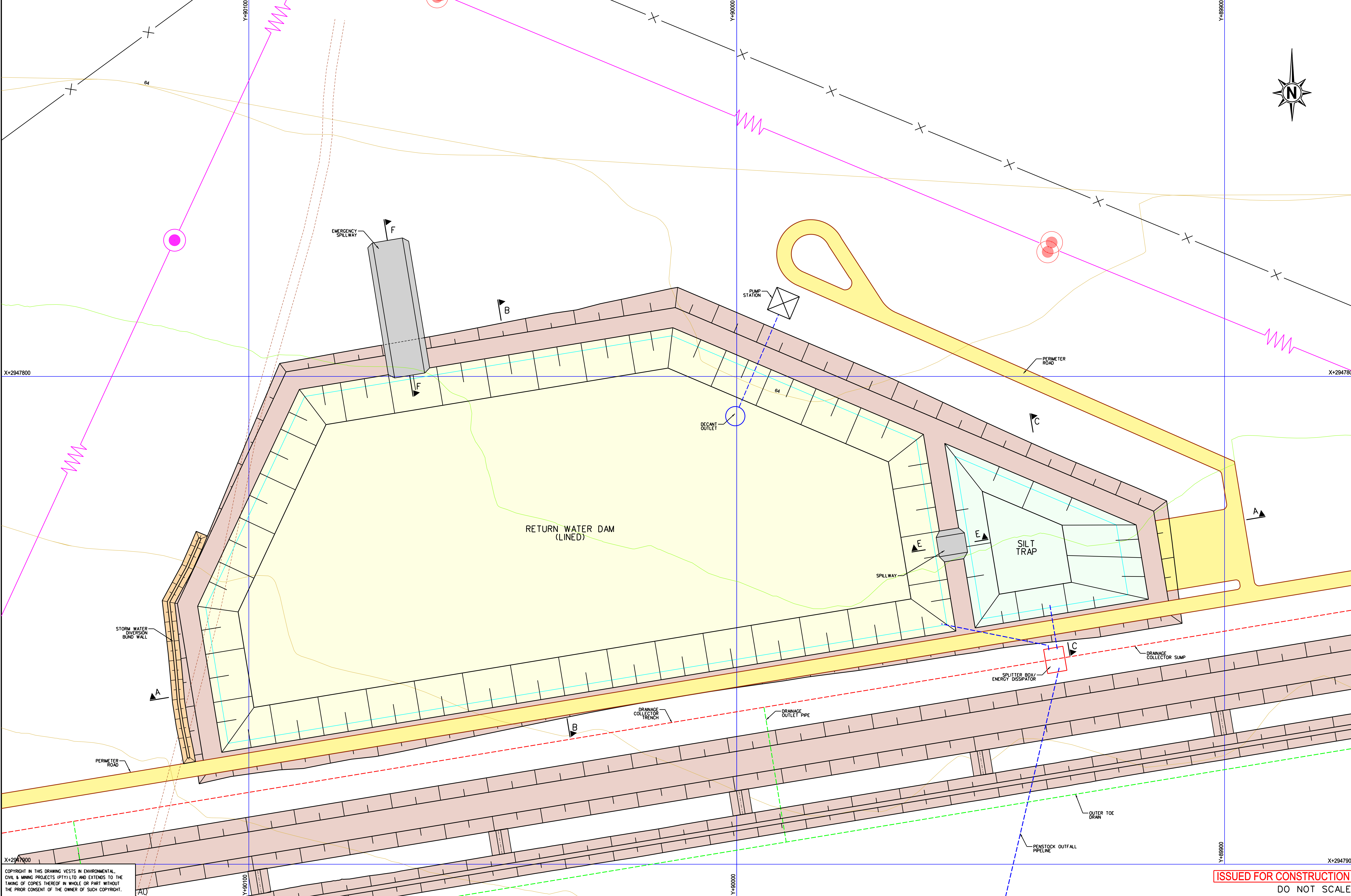
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REV	BY	DATE	DESCRIPTION	DRG.No.	REFERENCE DRAWINGS	DRG.No.	REFERENCE DRAWINGS	CLIENT	TITLE	DESIGNED	BY	DATE
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				004 SHT 1	DRAINAGE DETAILS					CHECKED		
				011	DRAINAGE COLLECTOR TRENCH LONG SECTION & DETAILS					SCALE	A0-1:25	
										DRAWING No.	T994-004 SHT.2	REVISION
												1

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MOOIPLAATS COAL DISCARD DUMP  
DRAINAGE COLLECTOR SUMP DETAILS





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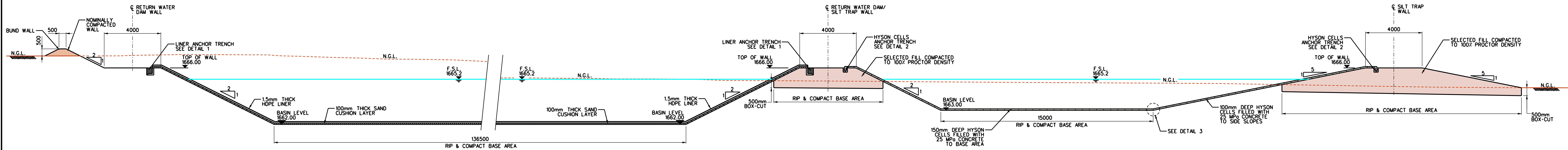
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1	NS/SA	07-05-2009	DRAWING UPDATED	001	GENERAL ARRANGEMENT			BADGER MINING & CONSULTING (PTY) LTD		DRAWN	N.S.	MAR.09
				006	RETURN WATER DAM & SILT TRAP DETAILS					CHECKED	S.A.	MAR.09
				007	RETURN WATER DAM SPILLWAY & TEMPORARY RETURN WATER DAM DETAILS					SCALE	1:250	
				012	RETURN WATER DAM DECANT SUMP DETAILS					DRAWING No.	T994-005	REVISION
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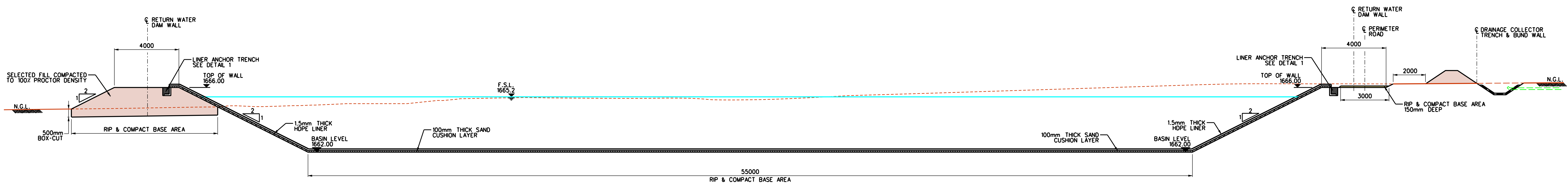
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TITLE  
MOOIPLAATS COAL DISCARD DUMP  
RETURN WATER DAM AND SILT TRAP LAYOUT

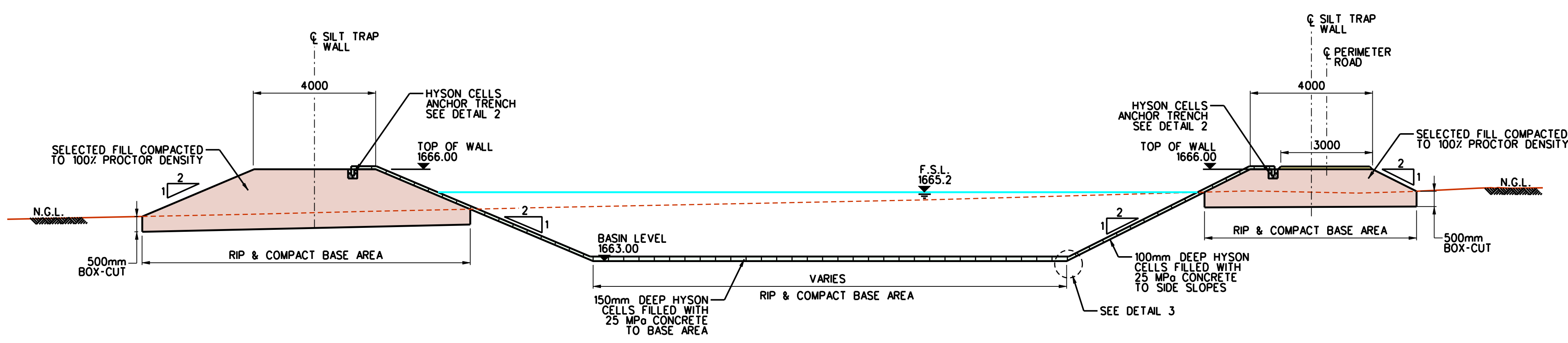




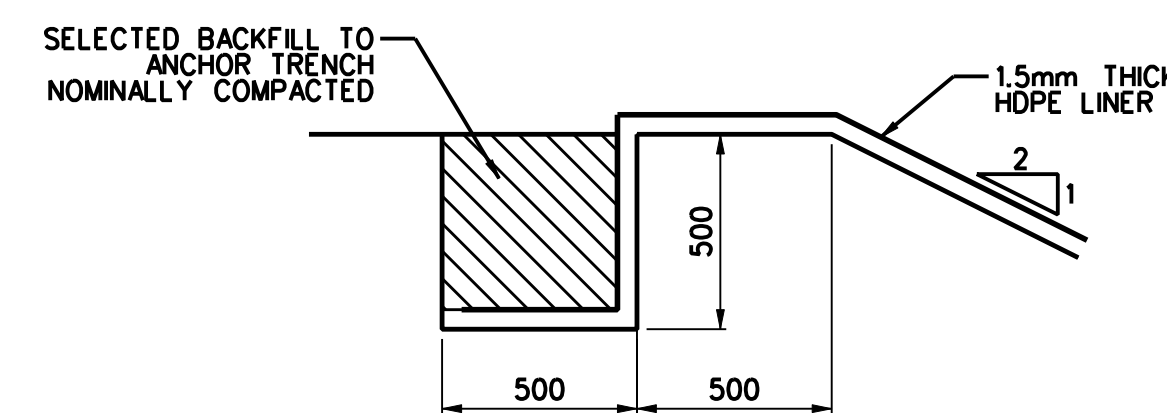
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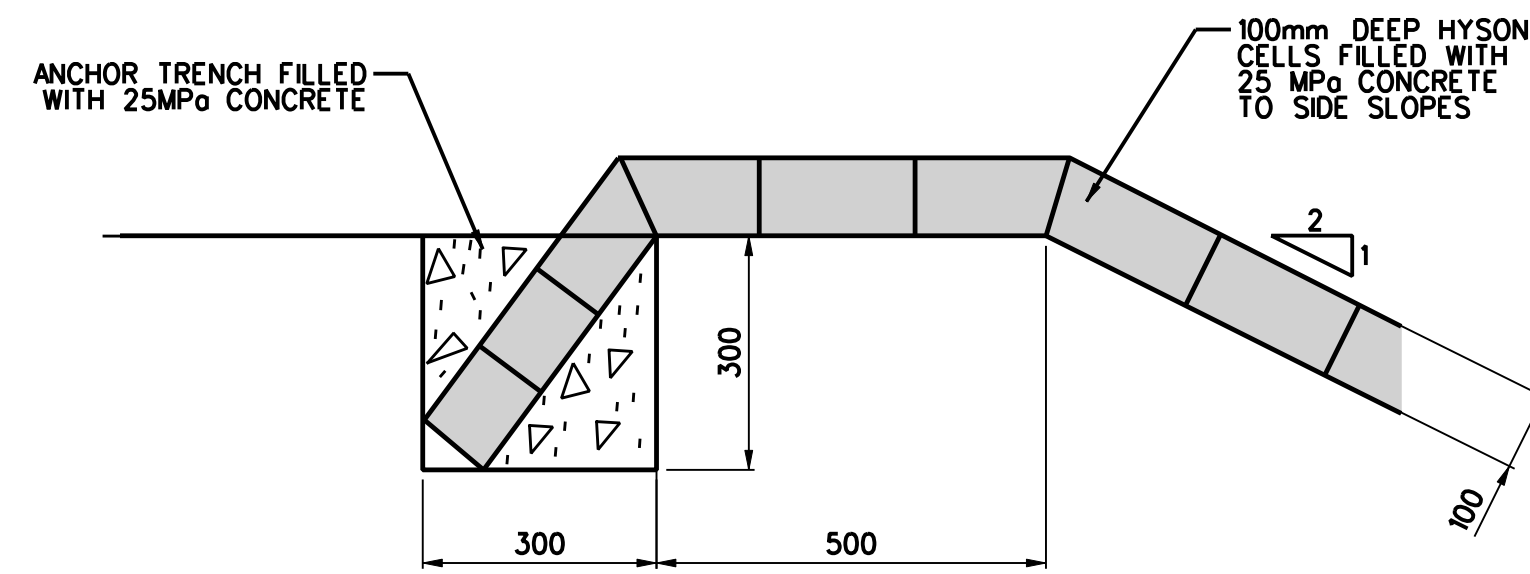
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SCALE 1:100



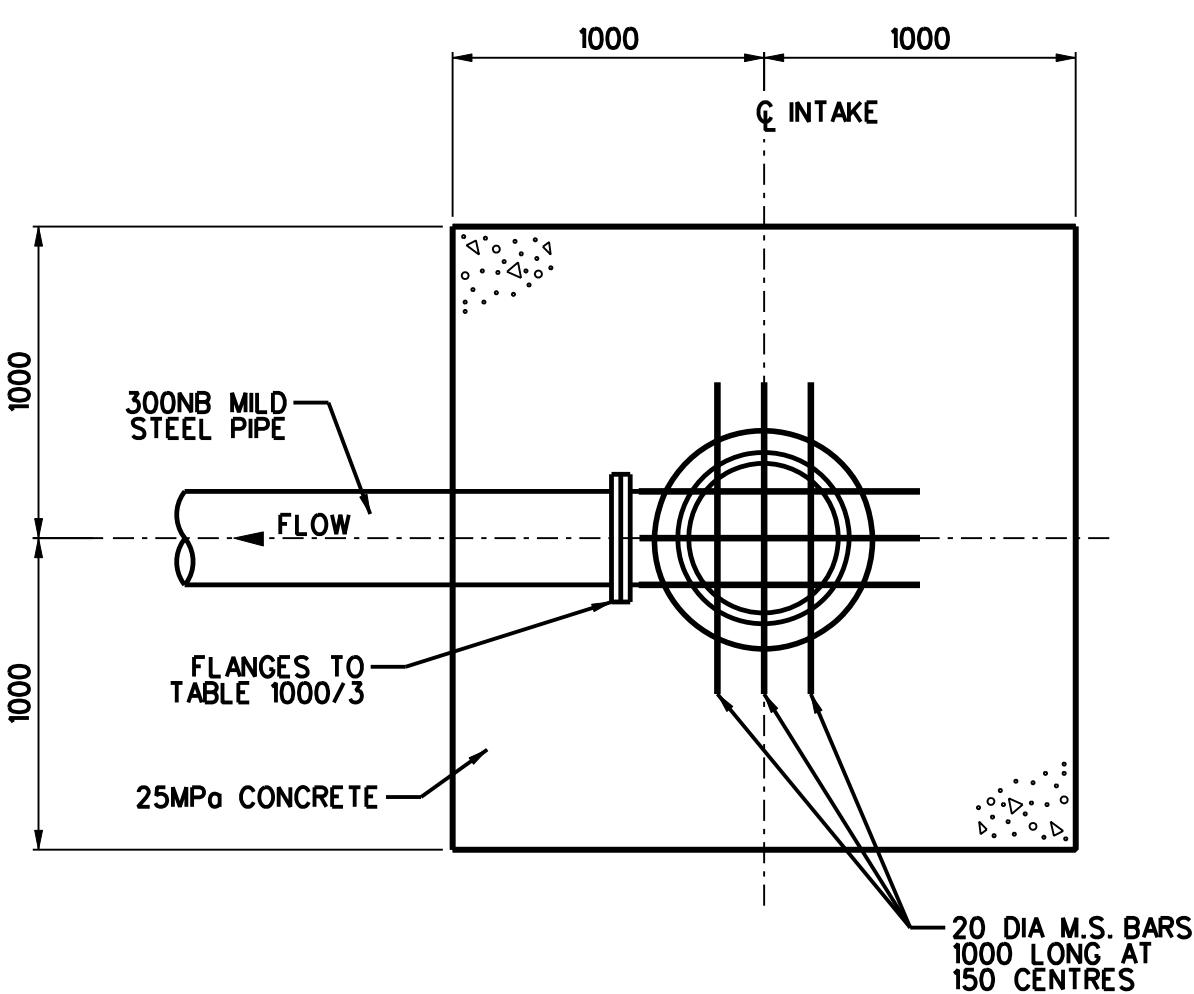
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SCALE 1:100



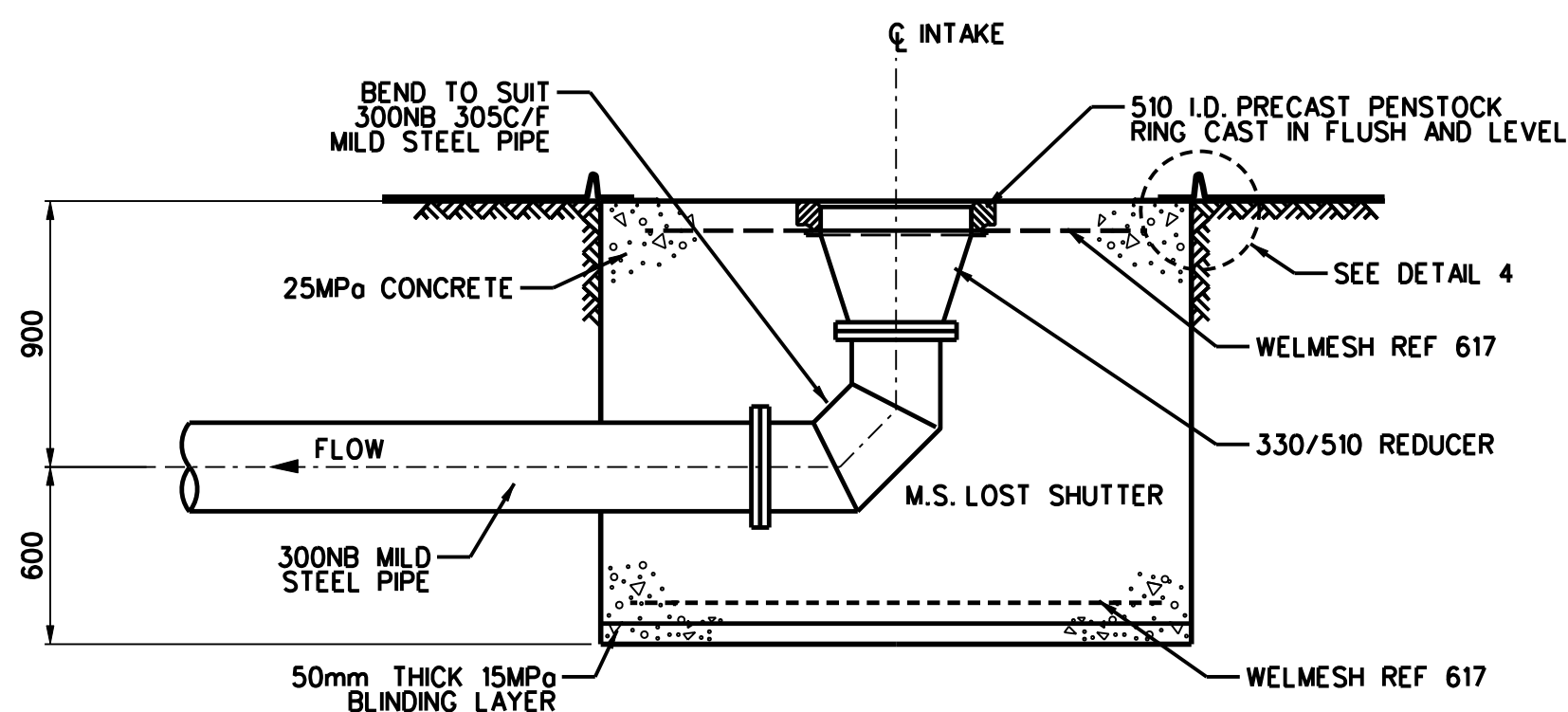
DETAIL 1  
SCALE 1:20



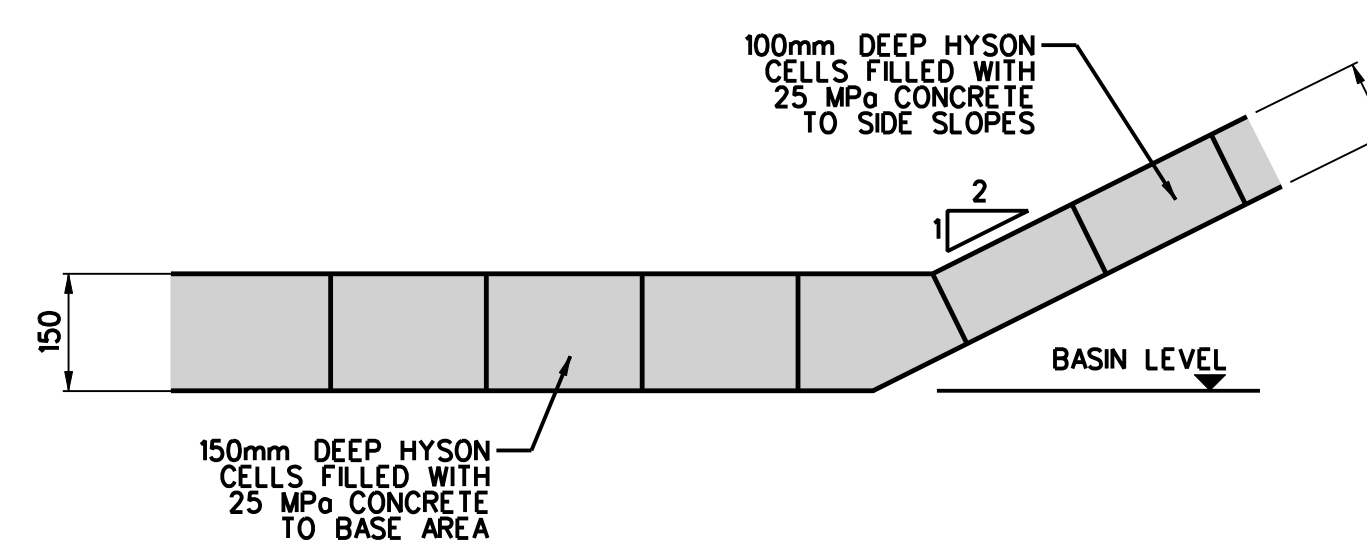
DETAIL 2  
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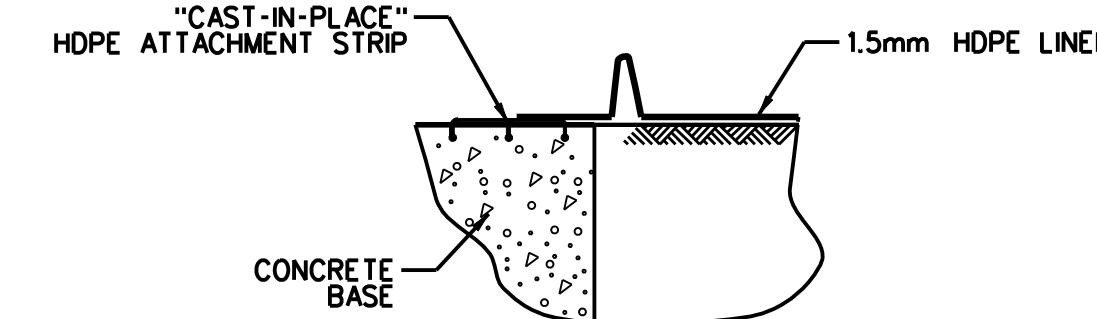
PLAN  
RETURN WATER DAM DECANT OUTLET STRUCTURE  
SCALE 1:25



SECTION  
RETURN WATER DAM DECANT OUTLET STRUCTURE  
SCALE 1:25



DETAIL 3  
SCALE 1:10



DETAIL 4  
N.T.S.

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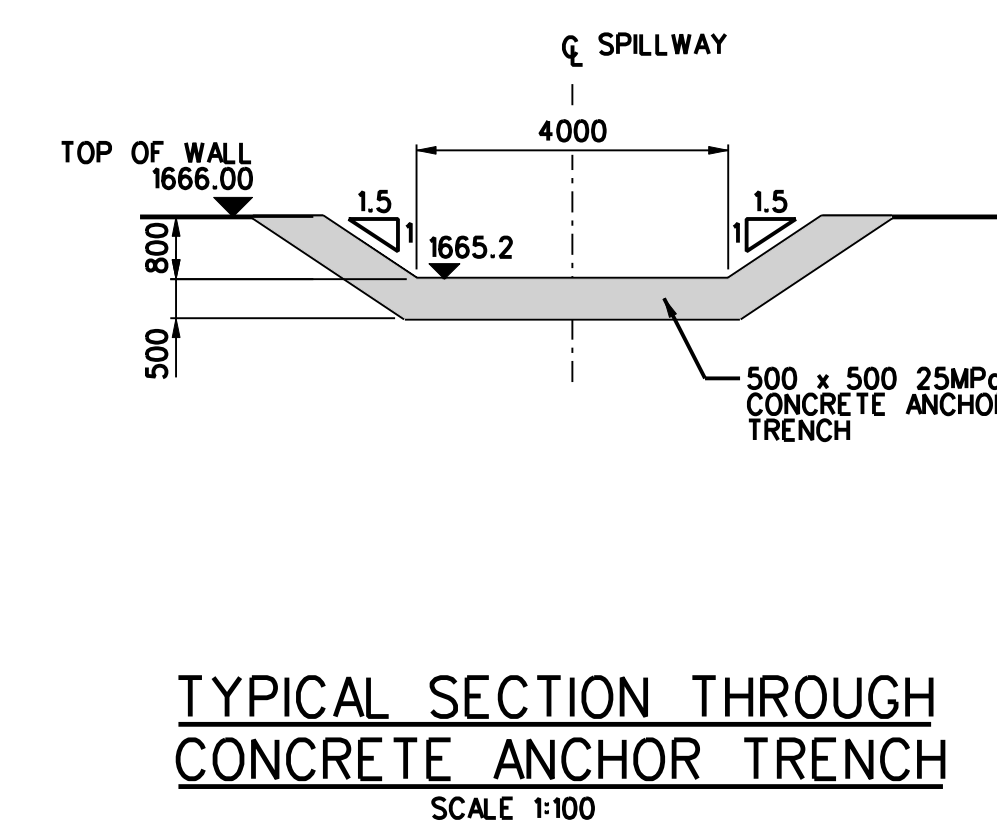
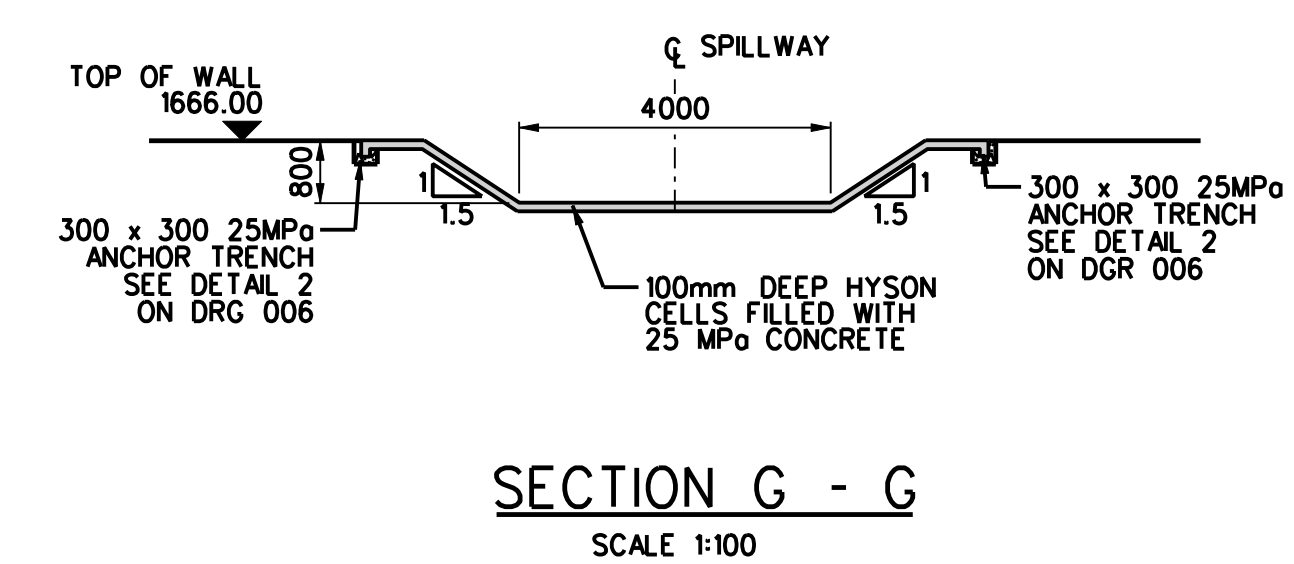
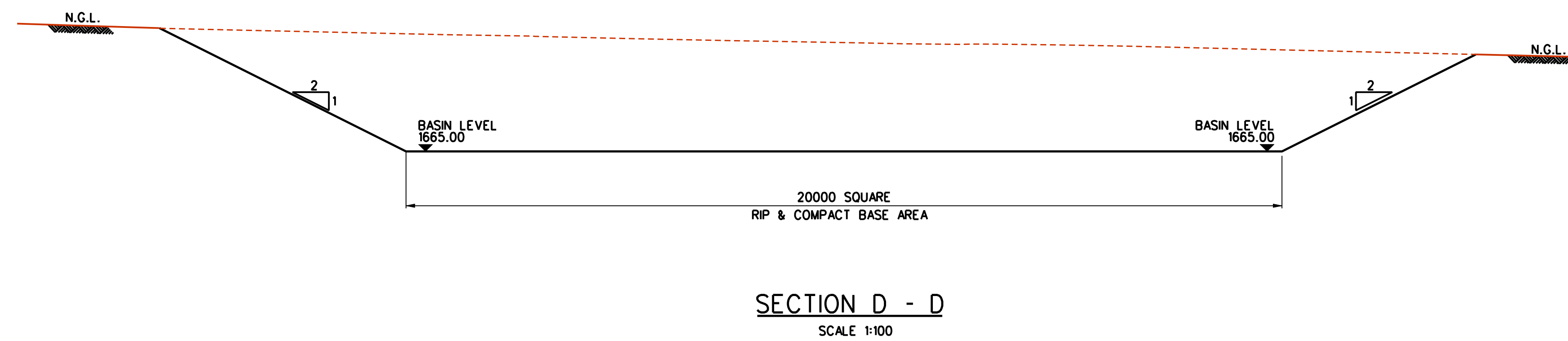
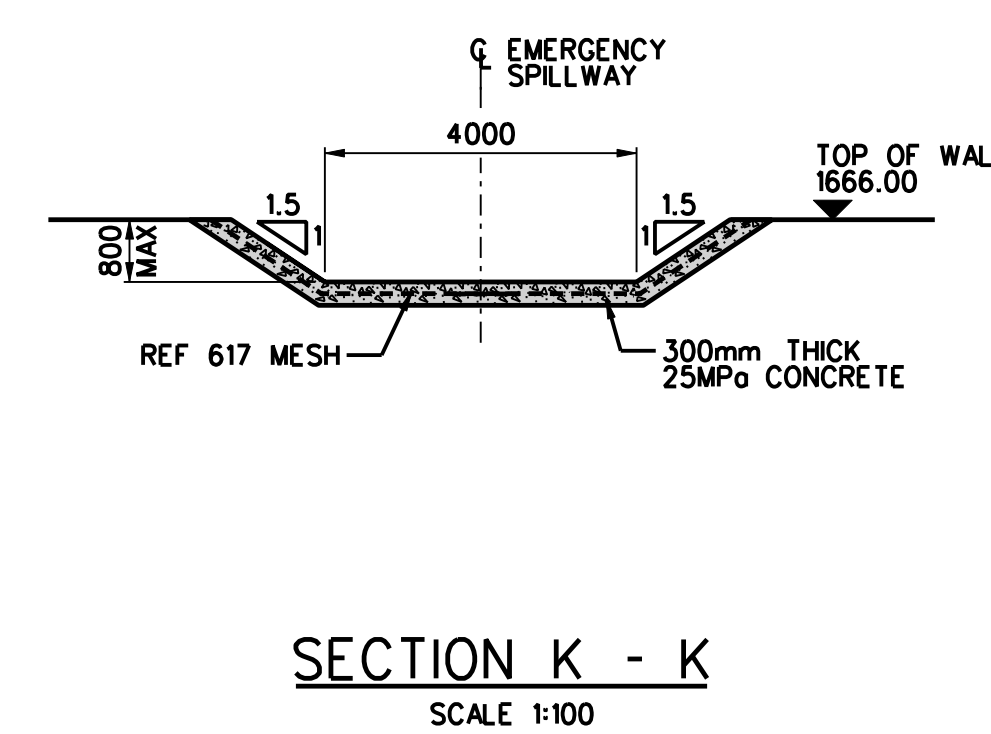
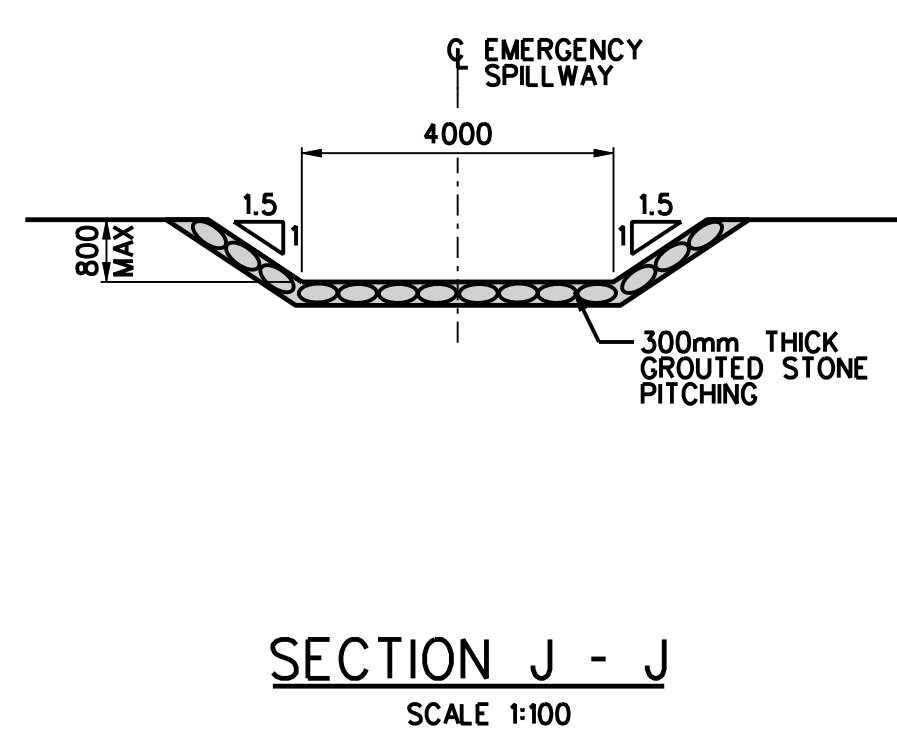
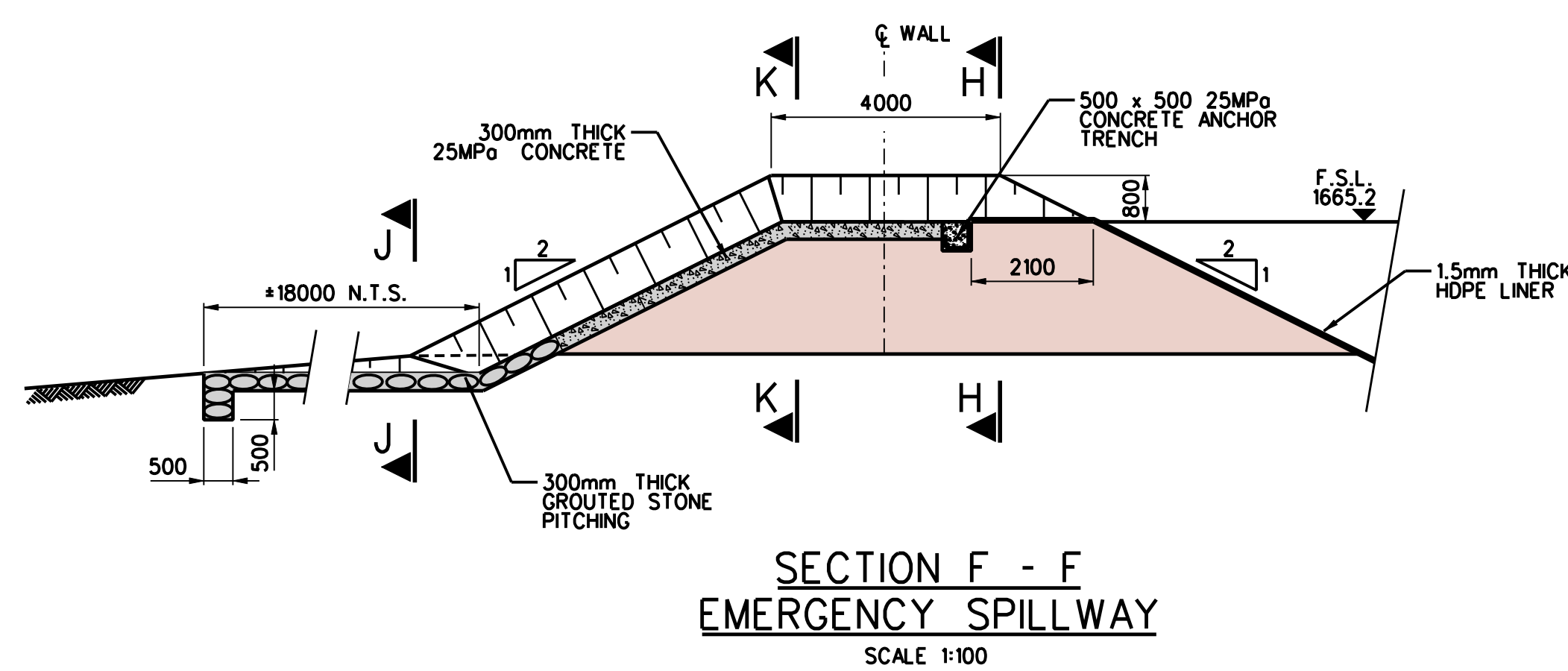
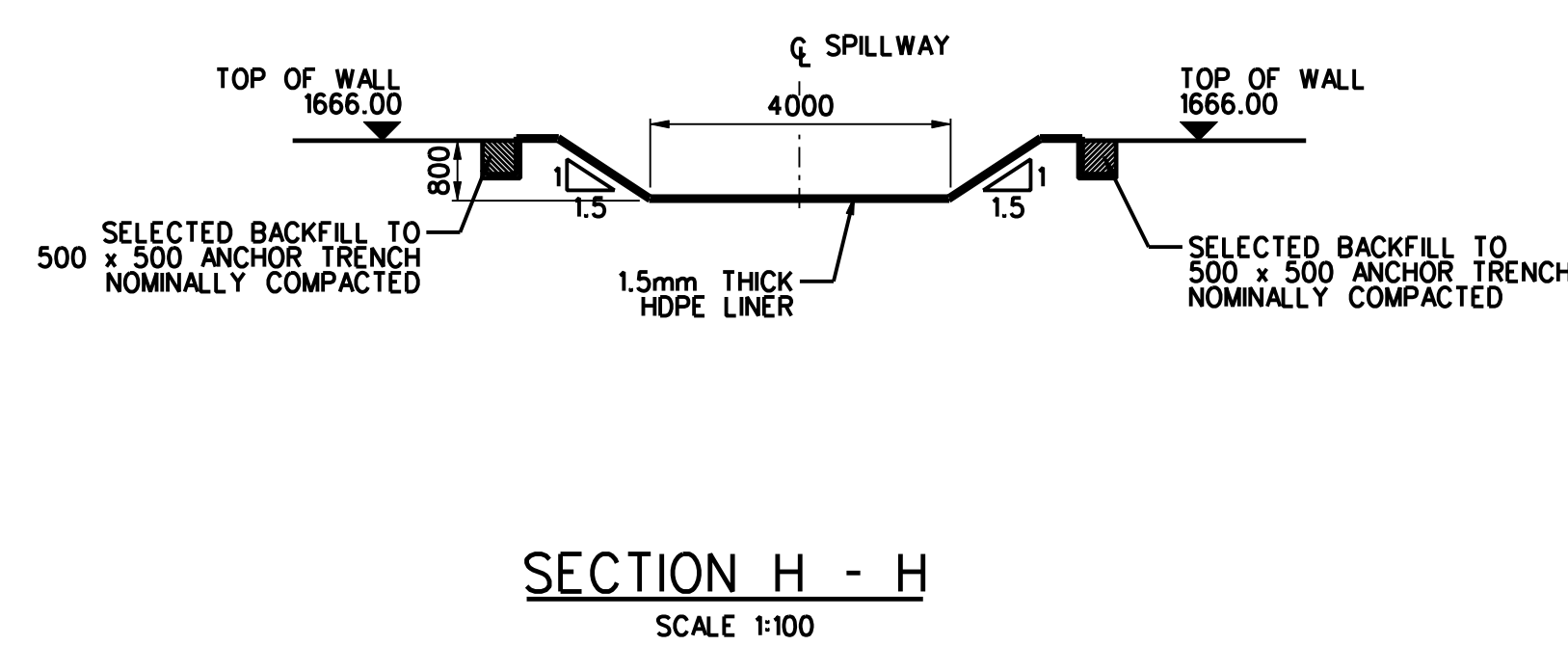
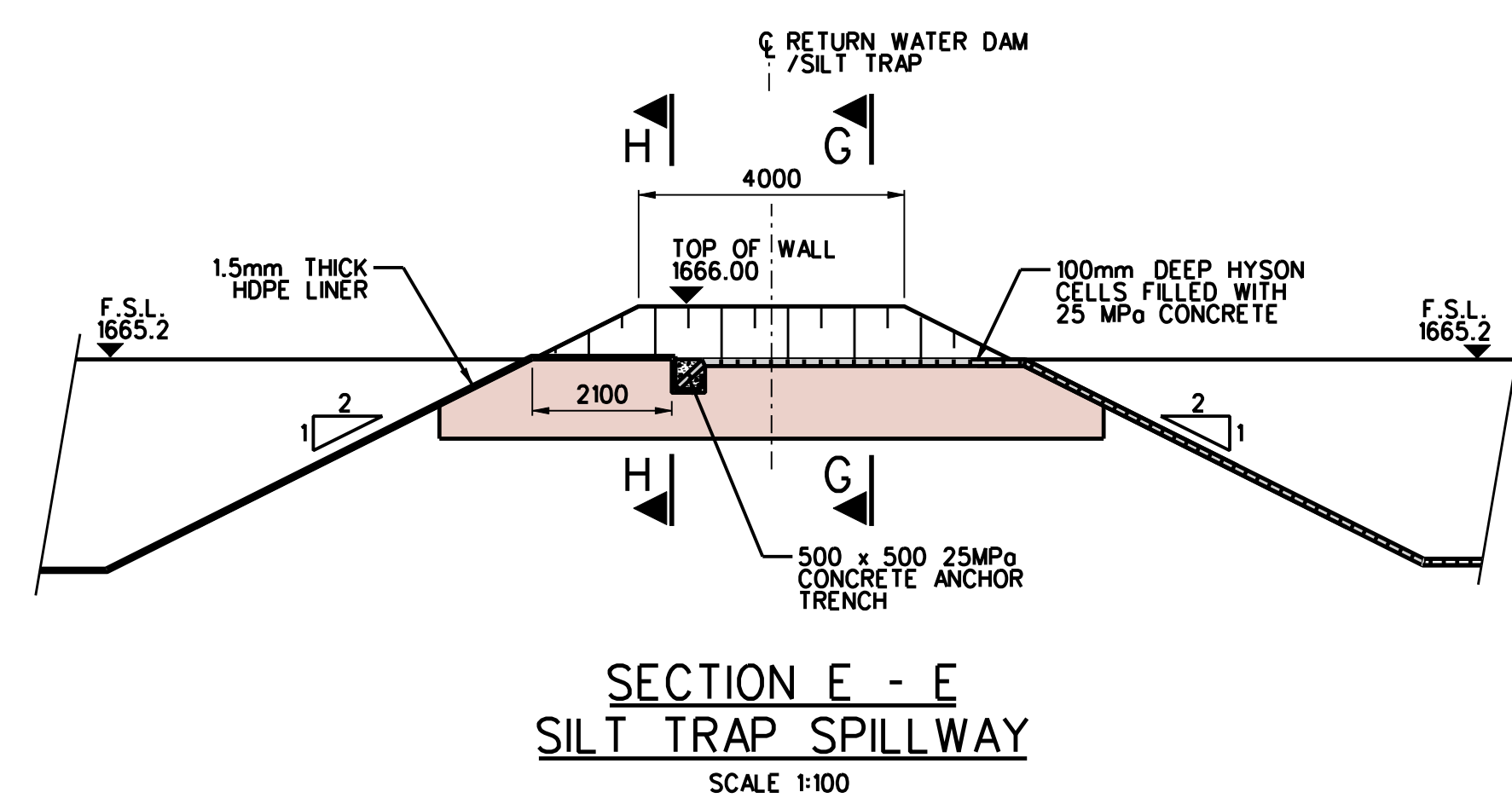
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1	NS/SA	07-05-2009	DRAWING UPDATED	001	GENERAL ARRANGEMENT			BADGER MINING & CONSULTING (PTY) LTD	MOOPLAATS COAL DISCARD DUMP RETURN WATER DAM AND SILT TRAP DETAILS				AS SHOWN	T994-006	1
				005	RETURN WATER DAM & SILT TRAP LAYOUT										
				007	RETURN WATER DAM SPILLWAY & TEMPORARY RETURN WATER DAM DETAILS										
				012	RETURN WATER DAM DECANT SUMP DETAILS										


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CLIENT	BADGER MINING & CONSULTING (PTY) LTD
TITLE	MOOPLAATS COAL DISCARD DUMP RETURN WATER DAM AND SILT TRAP DETAILS
DESIGNED	
DRAWN	
CHECKED	
SCALE	AS SHOWN
DRAWING No.	T994-006
REVISION	1



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REV	BY	DATE	DESCRIPTION	DRG.No.	REFERENCE DRAWINGS	DRG.No.	REFERENCE DRAWINGS
1	NS/SA	07-05-2009	DRAWING UPDATED	001	GENERAL ARRANGEMENT		
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				006	RETURN WATER DAM & SILT TRAP DETAILS		



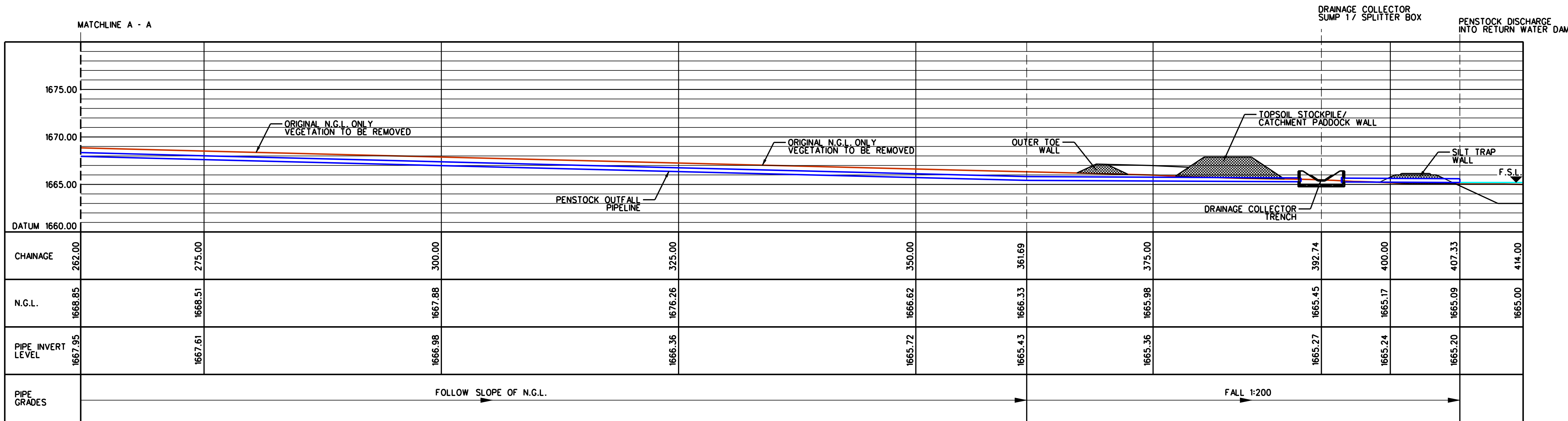
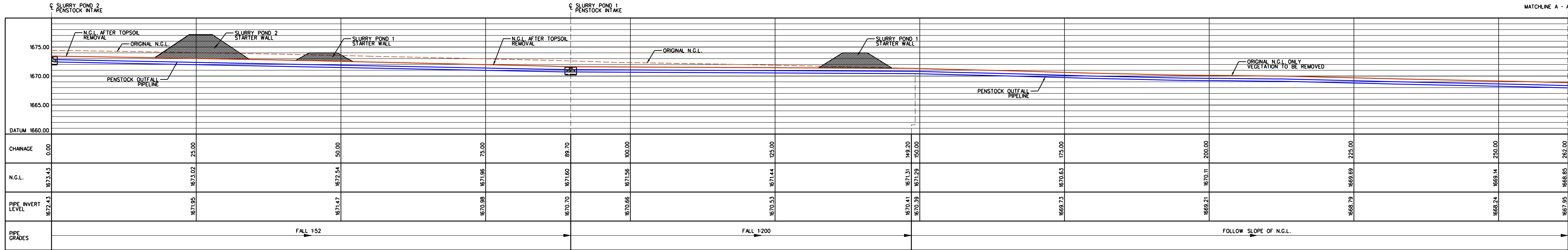
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CLIENT		BY	DATE
BADGER MINING & CONSULTING (PTY) LTD		N.S.	APR.09
TITLE		CHECKED	
MOOIPLAATS COAL DISCARD DUMP RETURN WATER DAM SPILLWAY AND TEMPORARY RETURN WATER DAM DETAILS		SCALE	AS SHOWN
		DRAWING No.	REVISION
		T994-007	1

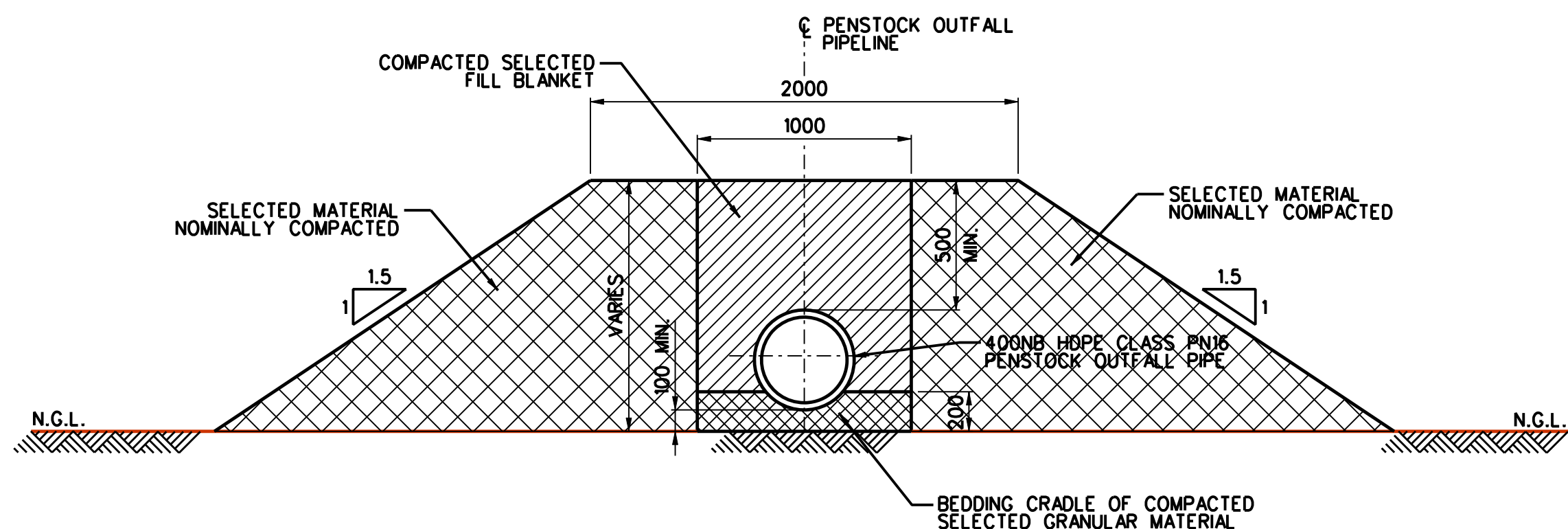
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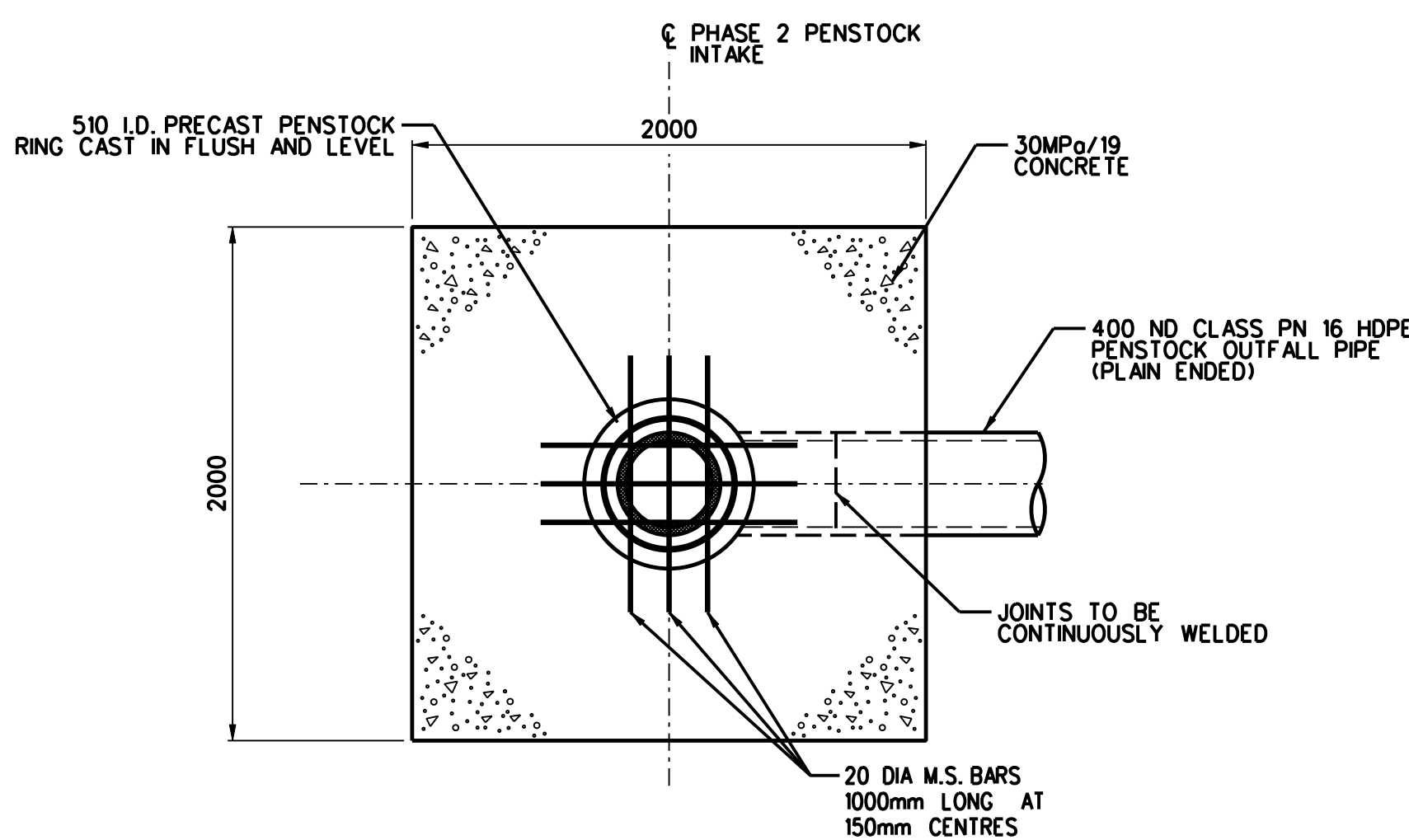




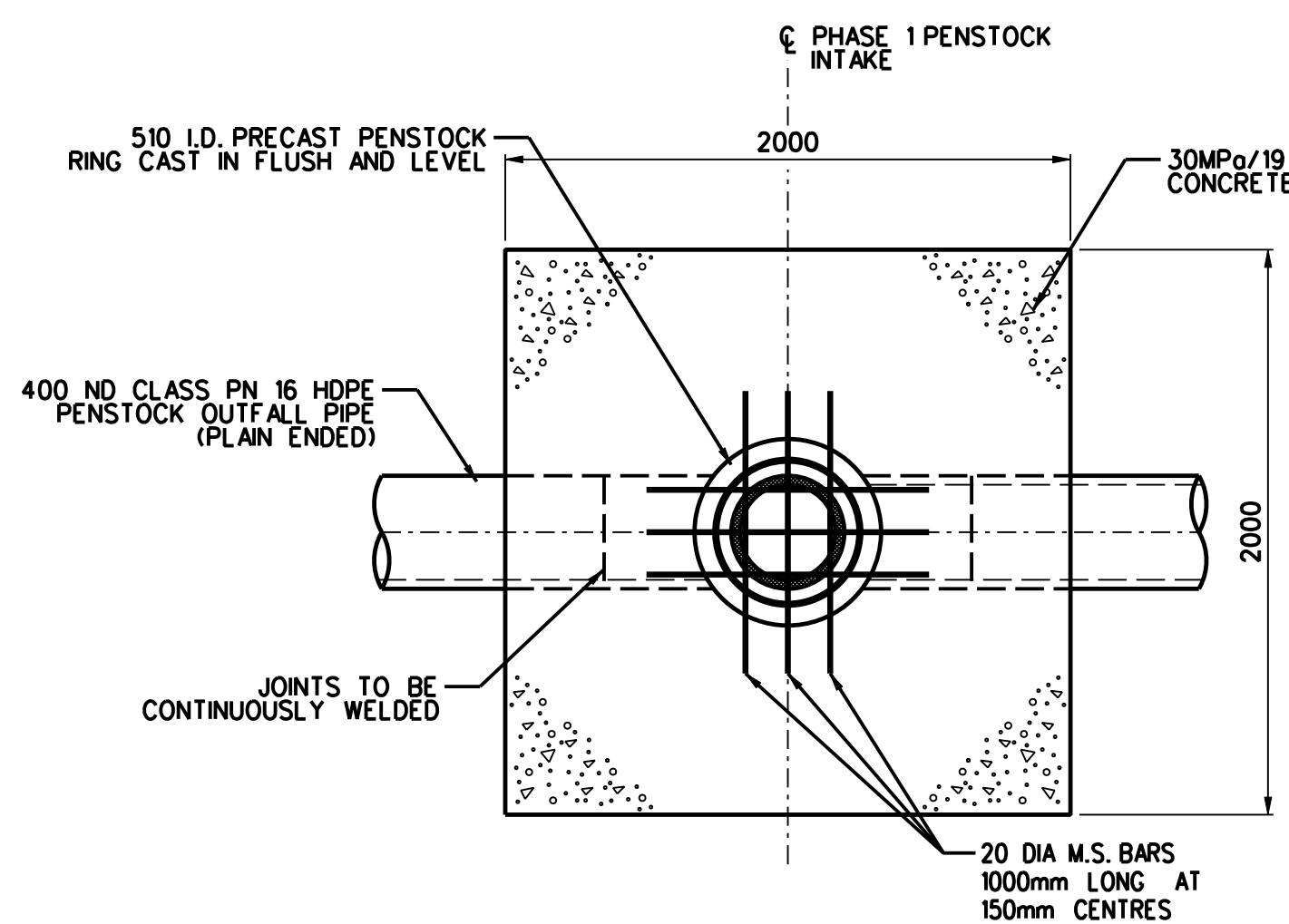
LONGITUDINAL SECTION - PENSTOCK OUTFALL PIPELINE  
SCALE 1:250



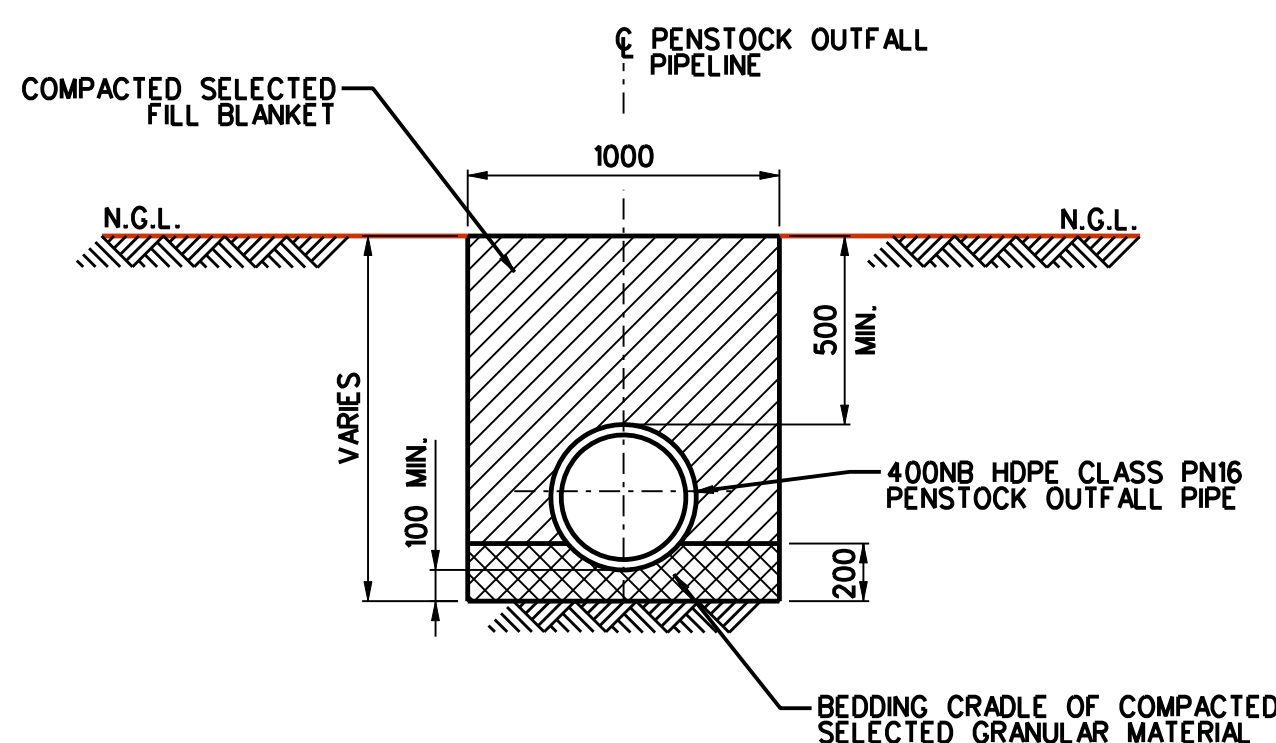
TYPICAL SECTION - PENSTOCK  
OUTFALL PIPELINE ABOVE N.G.L. (CLASS C BEDDING)  
SCALE 1:25



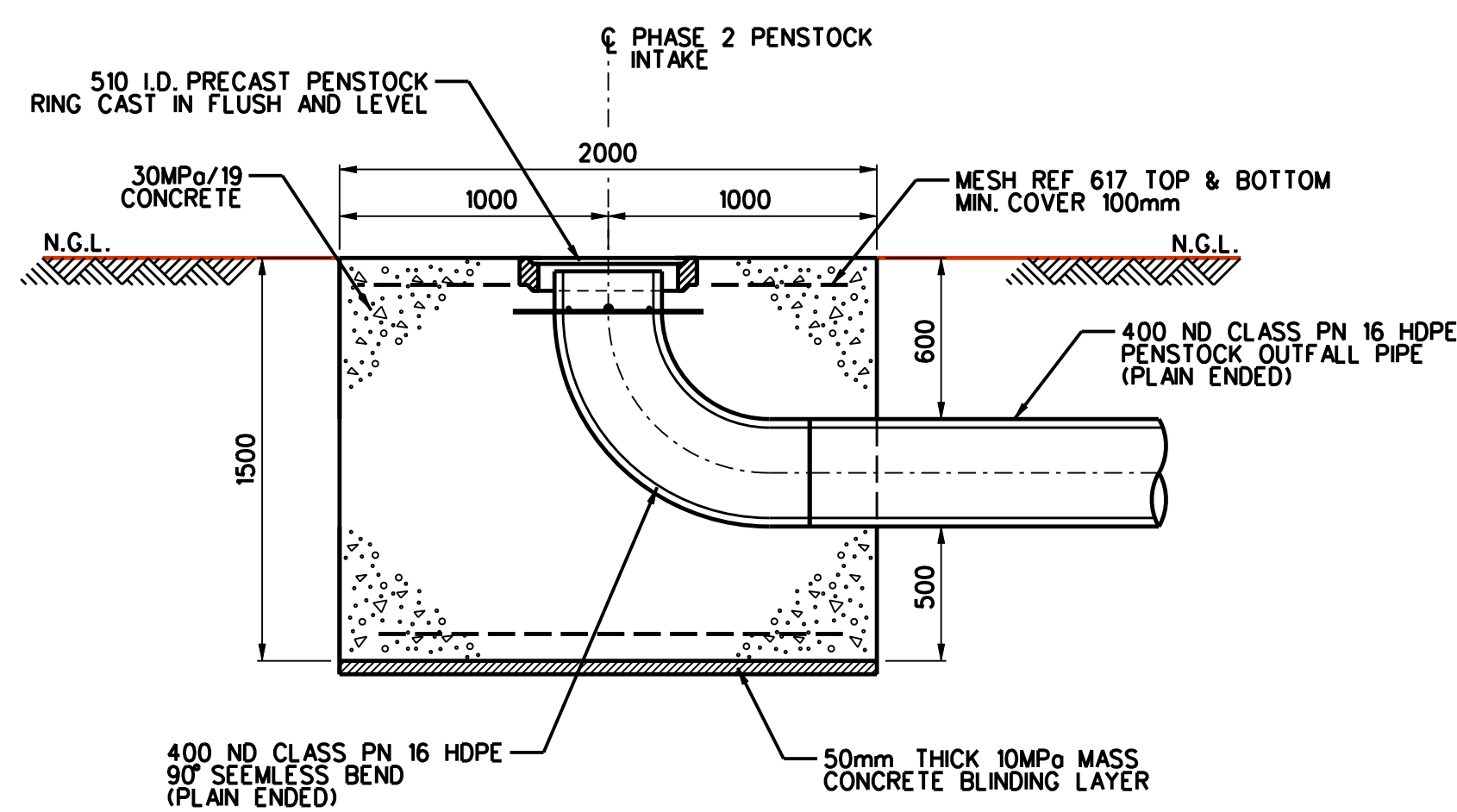
PLAN - SLURRY POND 2 PENSTOCK INTAKE  
SCALE 1:25



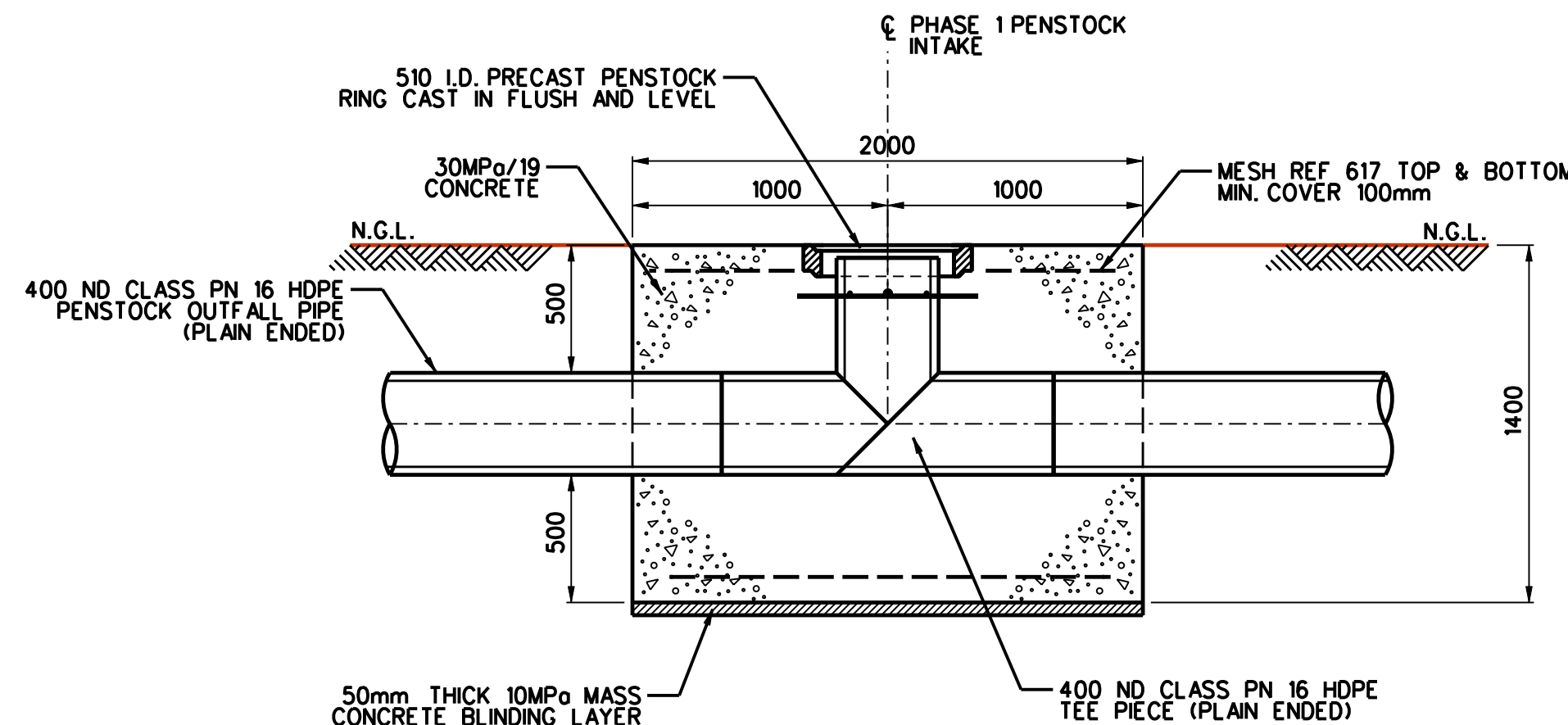
PLAN - SLURRY POND 1 PENSTOCK INTAKE  
SCALE 1:25



TYPICAL SECTION - PENSTOCK  
OUTFALL PIPELINE BELOW N.G.L. (CLASS C BEDDING)  
SCALE 1:25



SECTION - SLURRY POND 2 PENSTOCK INTAKE  
SCALE 1:25



SECTION - SLURRY POND 1 PENSTOCK INTAKE  
SCALE 1:25

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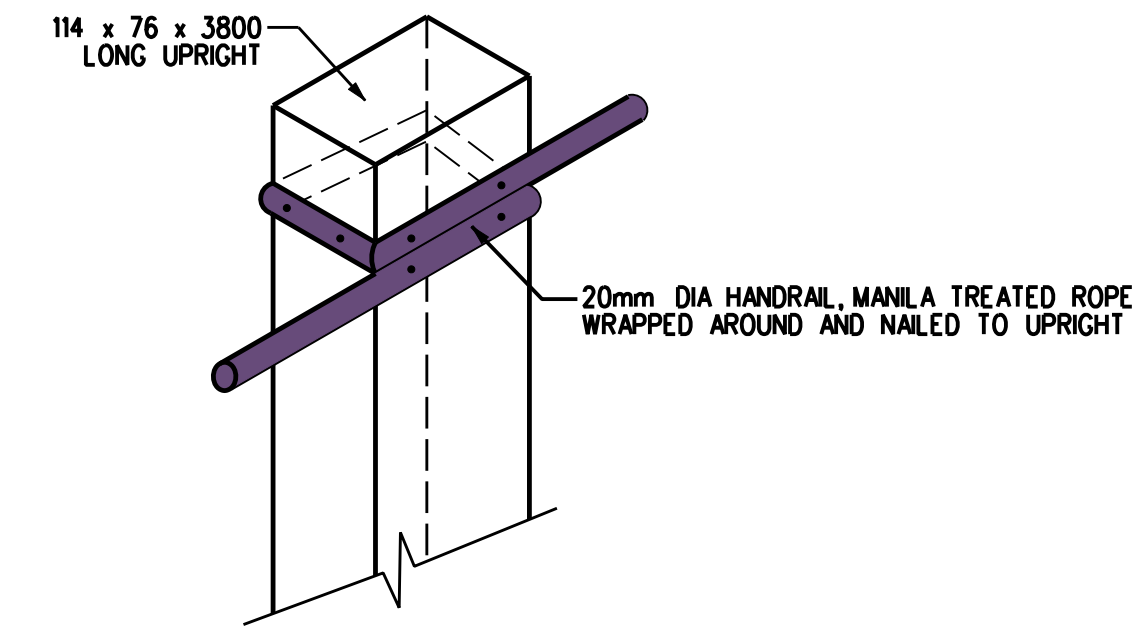
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1	NS	24-04-09	PENSTOCK PIPE I.L. ALTERED	001	GENERAL ARRANGEMENT			BADGER MINING & CONSULTING (PTY) LTD		N.S.	MAR.09
				004 SHT 1	DRAINAGE DETAILS				DRAWN	N.S.	MAR09
				004 SHT 2	DRAINAGE COLLECTOR SUMP DETAILS				CHECKED		
				011	DRAINAGE COLLECTOR TRENCH LONG SECTION & DETAILS				SCALE	AS SHOWN	
									DRAWING No.	T994-008	REVISION
											1

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TITLE  
MOOIPLAATS COAL DISCARD DUMP  
PENSTOCK OUTFALL PIPELINE  
DETAILS



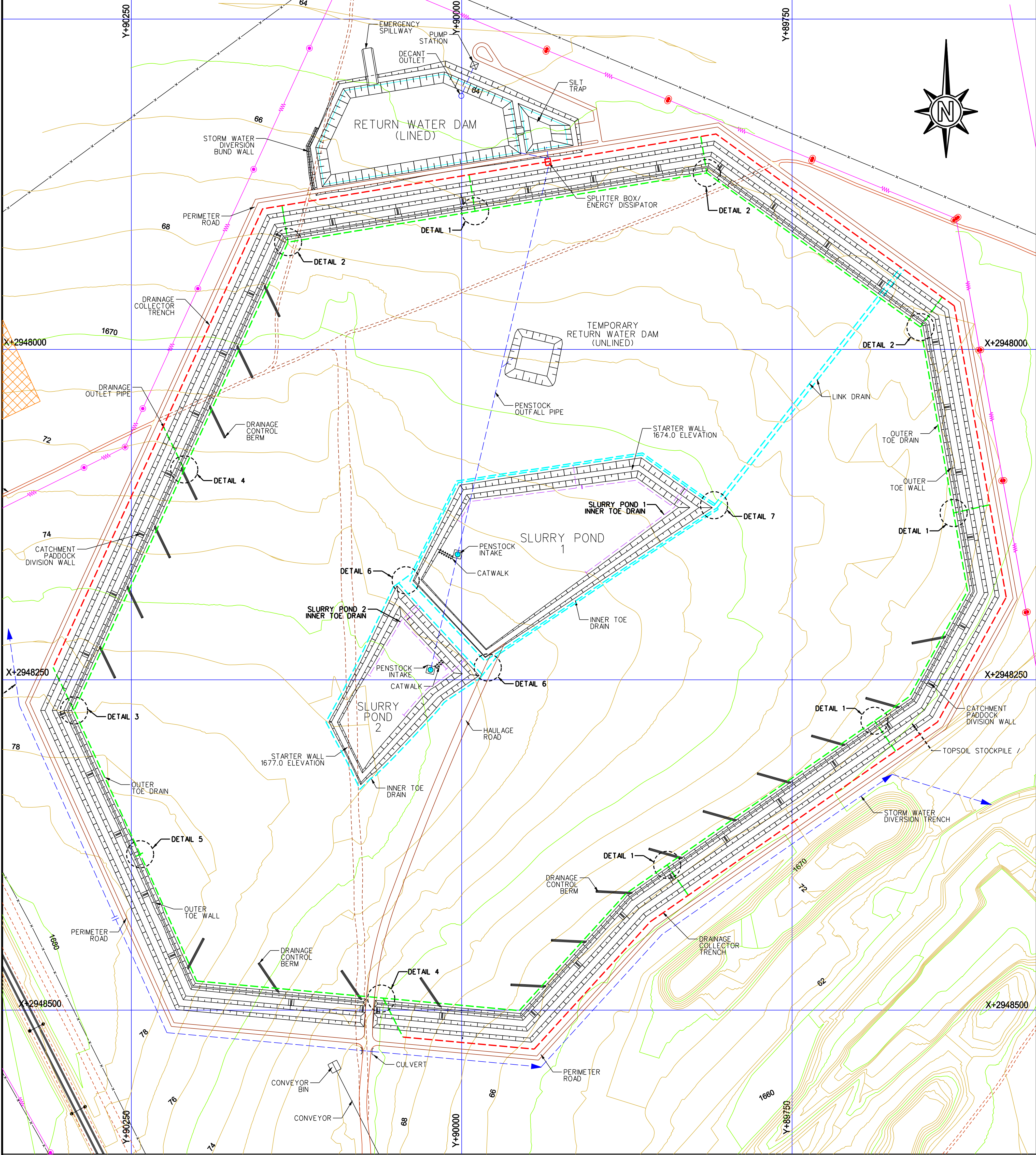
[illegible]

Technical drawing of a 10m high pedestrian bridge structure. The drawing shows a cross-section with two vertical 20mm diameter manila treated rope handrails. The bridge deck consists of 228 x 76 x 3000 long walkway planks supported by 114 x 76 x 1200 long bearers. The structure is braced with 114 x 76 x 1800 long uprights and 114 x 76 x 1200 crossbracing at every bay. The bridge is supported by 15 MPa concrete foundations, each 300 DIA. Dimensions include a total height of 10000, a clear height of 17000, and a base width of 900. The bridge is 900 wide.

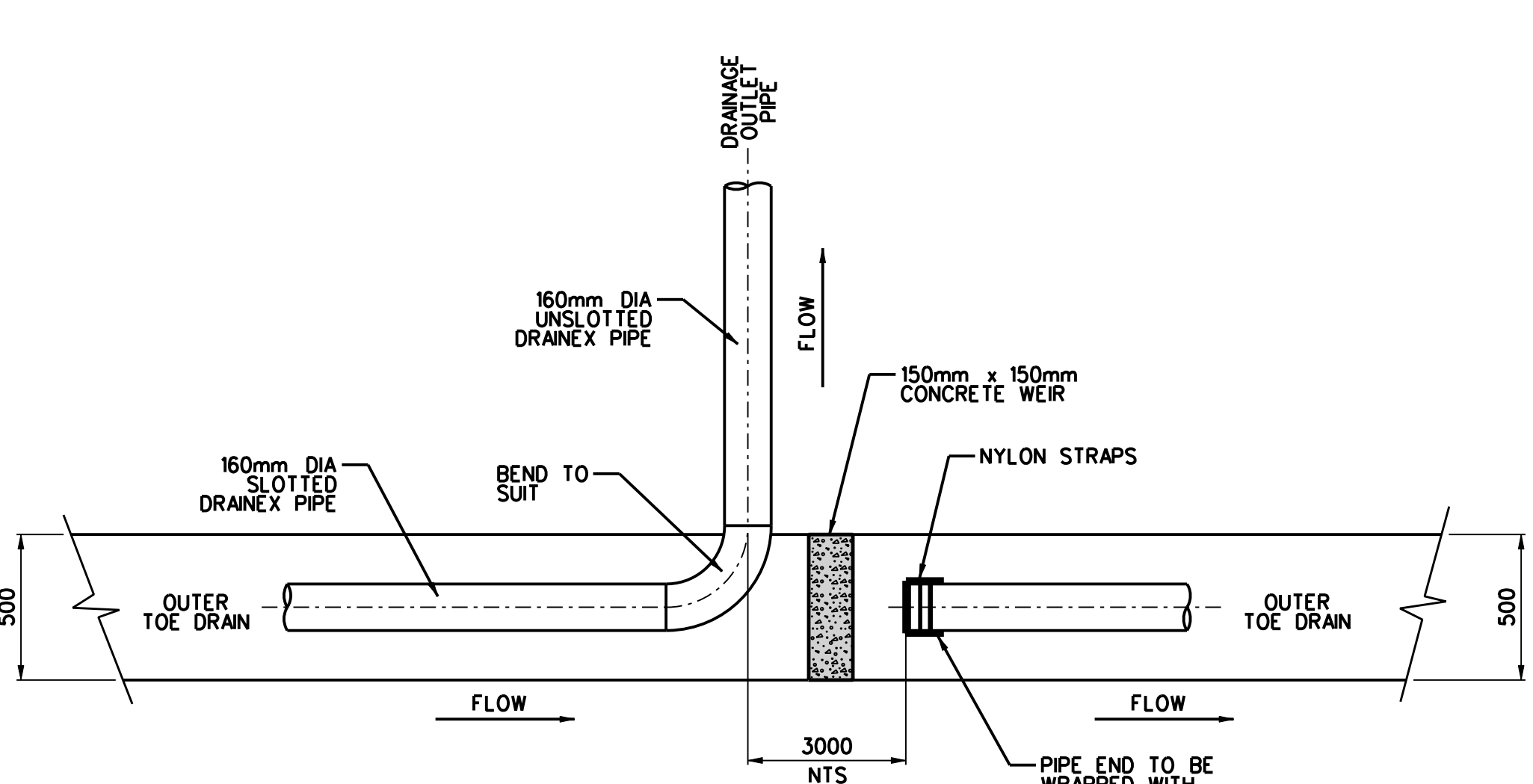
Technical drawing of a bridge deck cross-section showing two spans of 3000 CRS each. The drawing includes dimensions for the total length (6000 CRS), span length (3000 CRS), and deck width (900). It also shows the internal structure of the bridge deck, including the main girders and the deck slabs.

	BY	DATE
DESIGNED	N.S.	MAR.09
DRAWN	S.A.	MAR.09
CHECKED	-	-
SCALE	AS SHOWN	
DRAWING No.	T994-009	REVISION 2

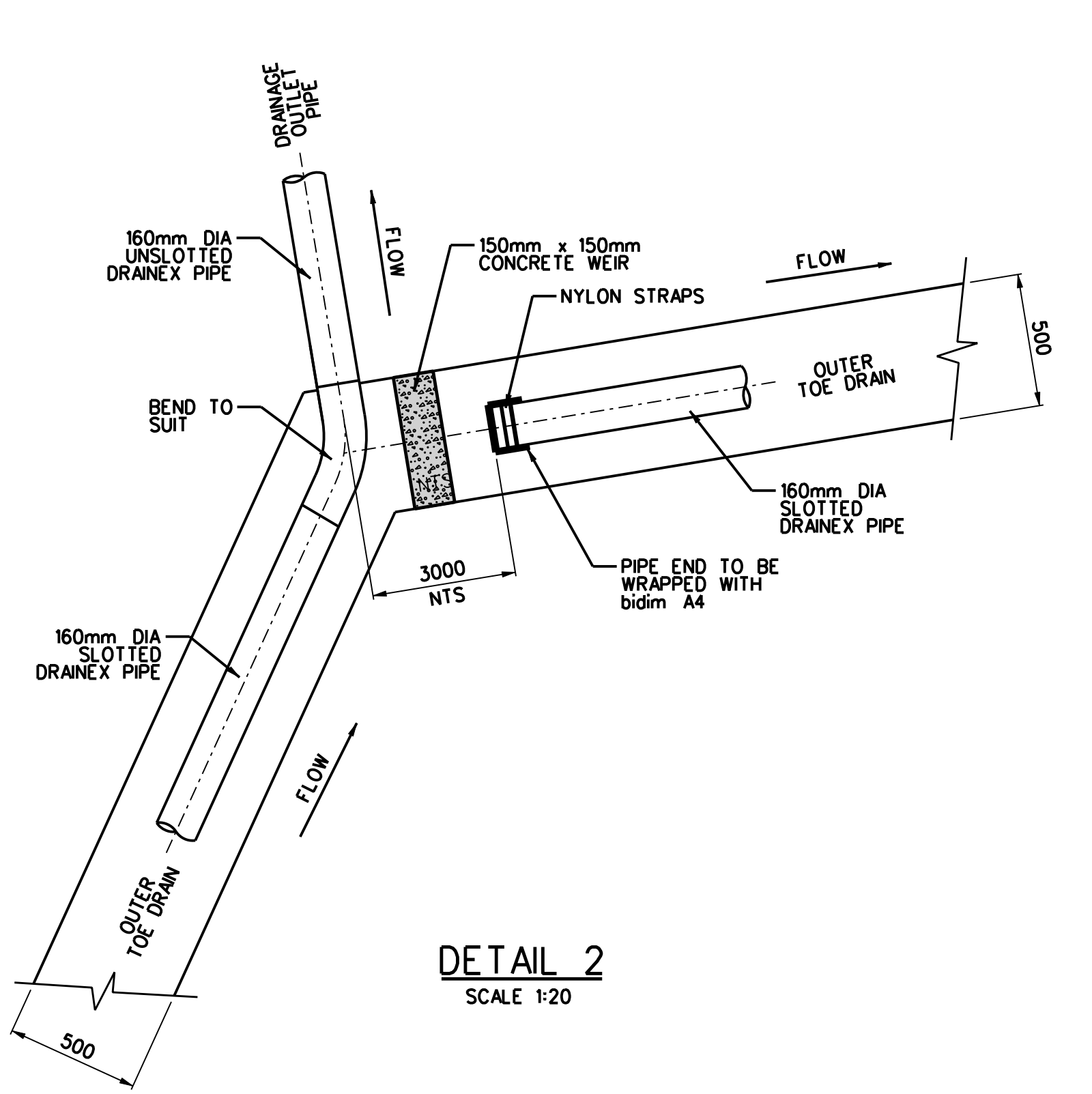




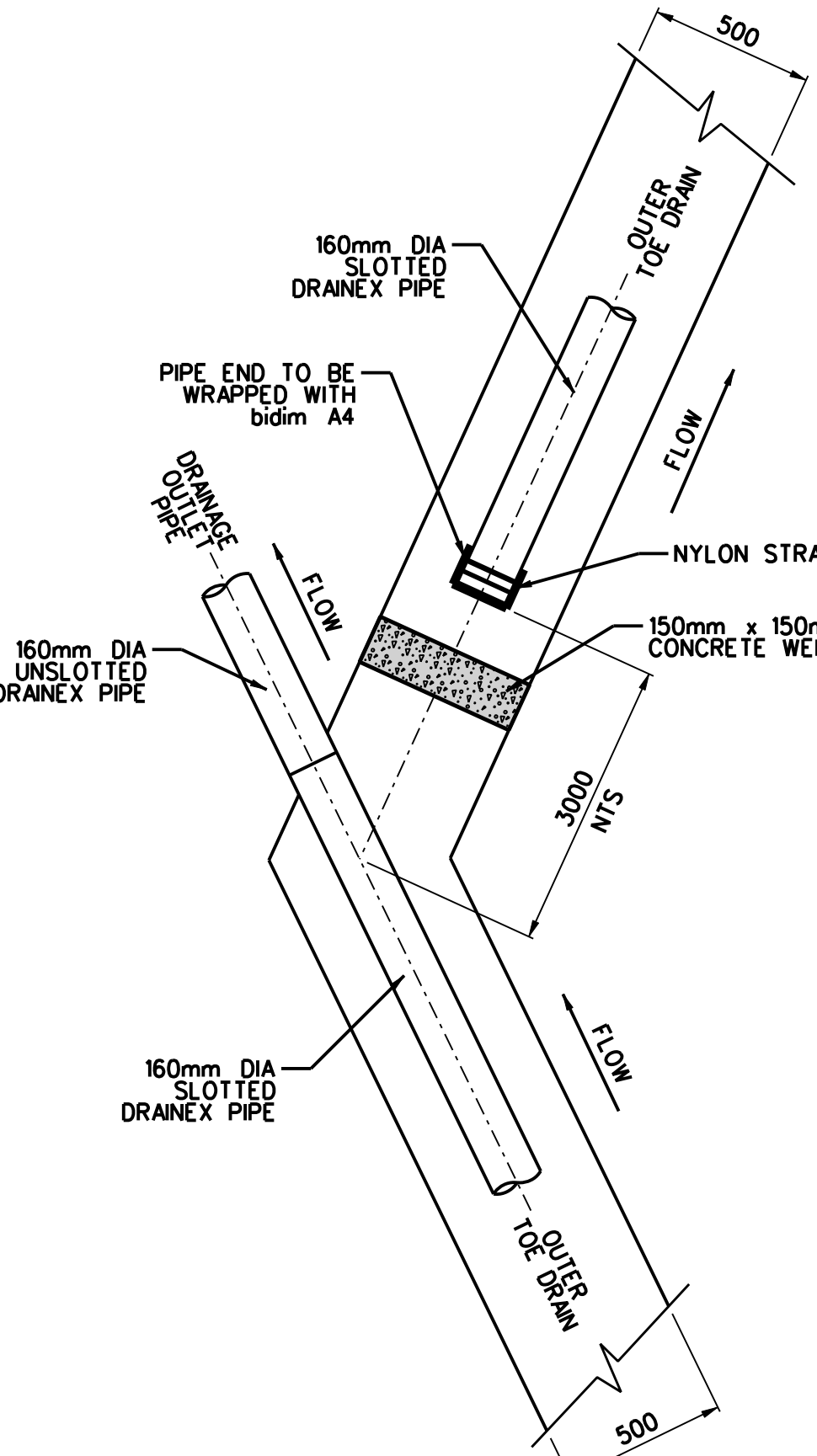
PLAN  
SCALE 1:1500



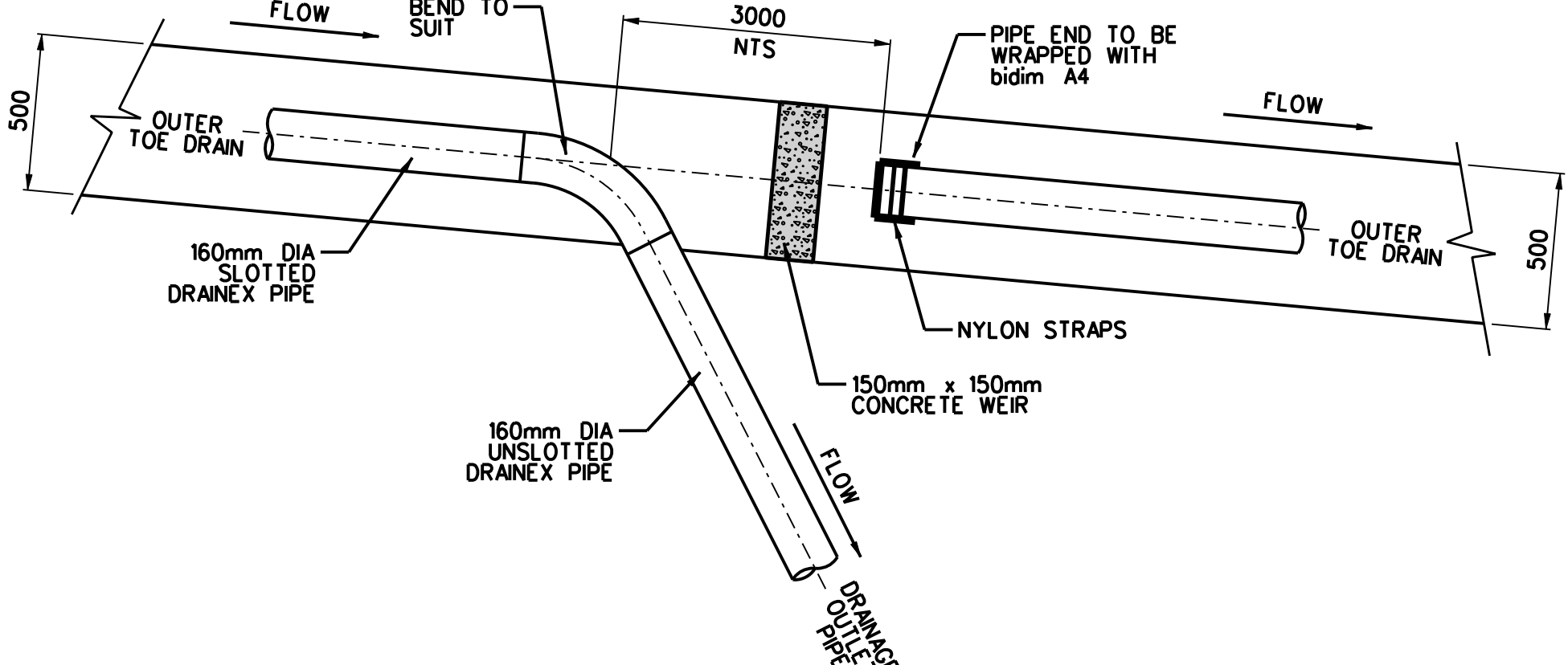
DETAIL 1  
SCALE 1:20



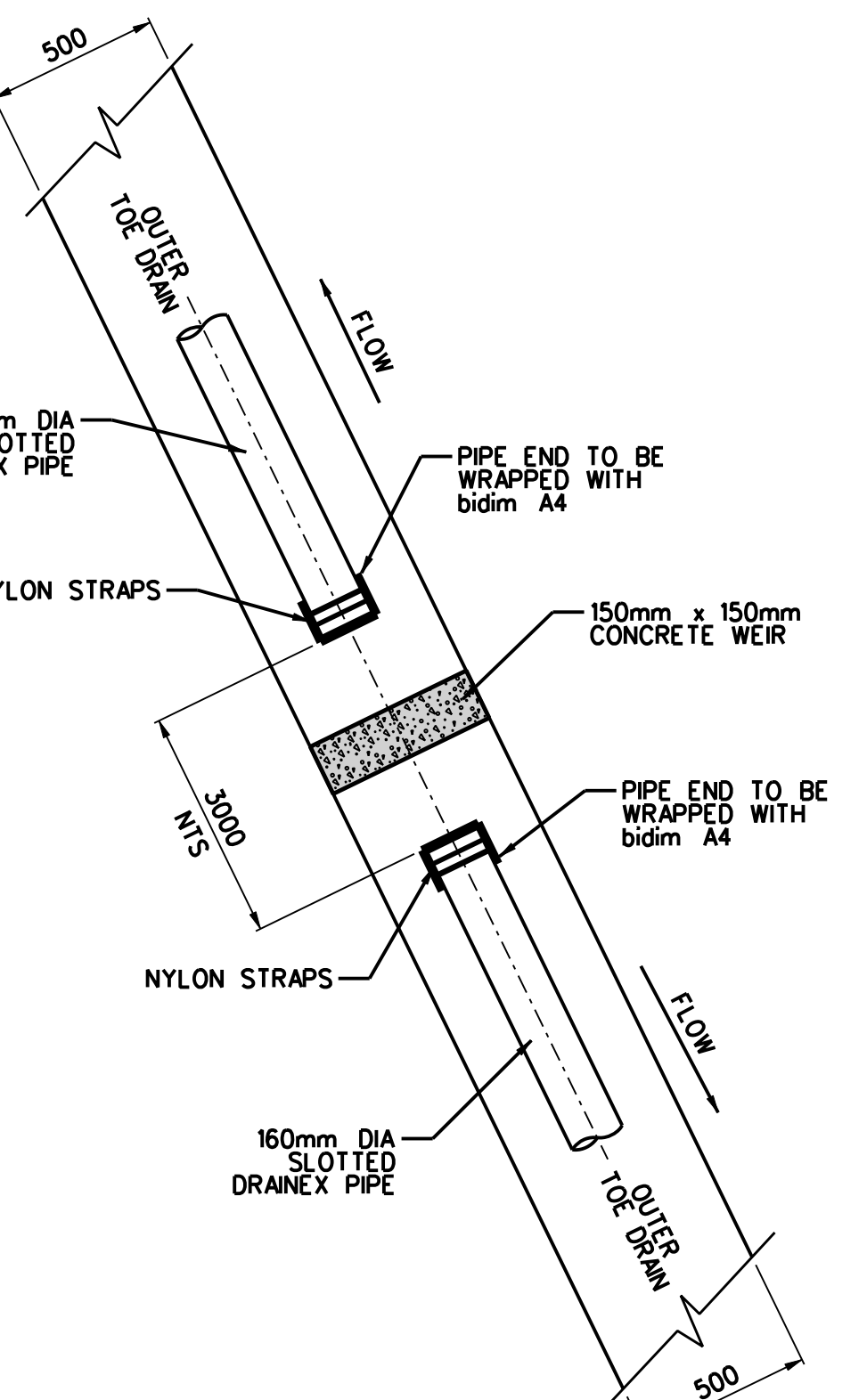
DETAIL 2  
SCALE 1:20



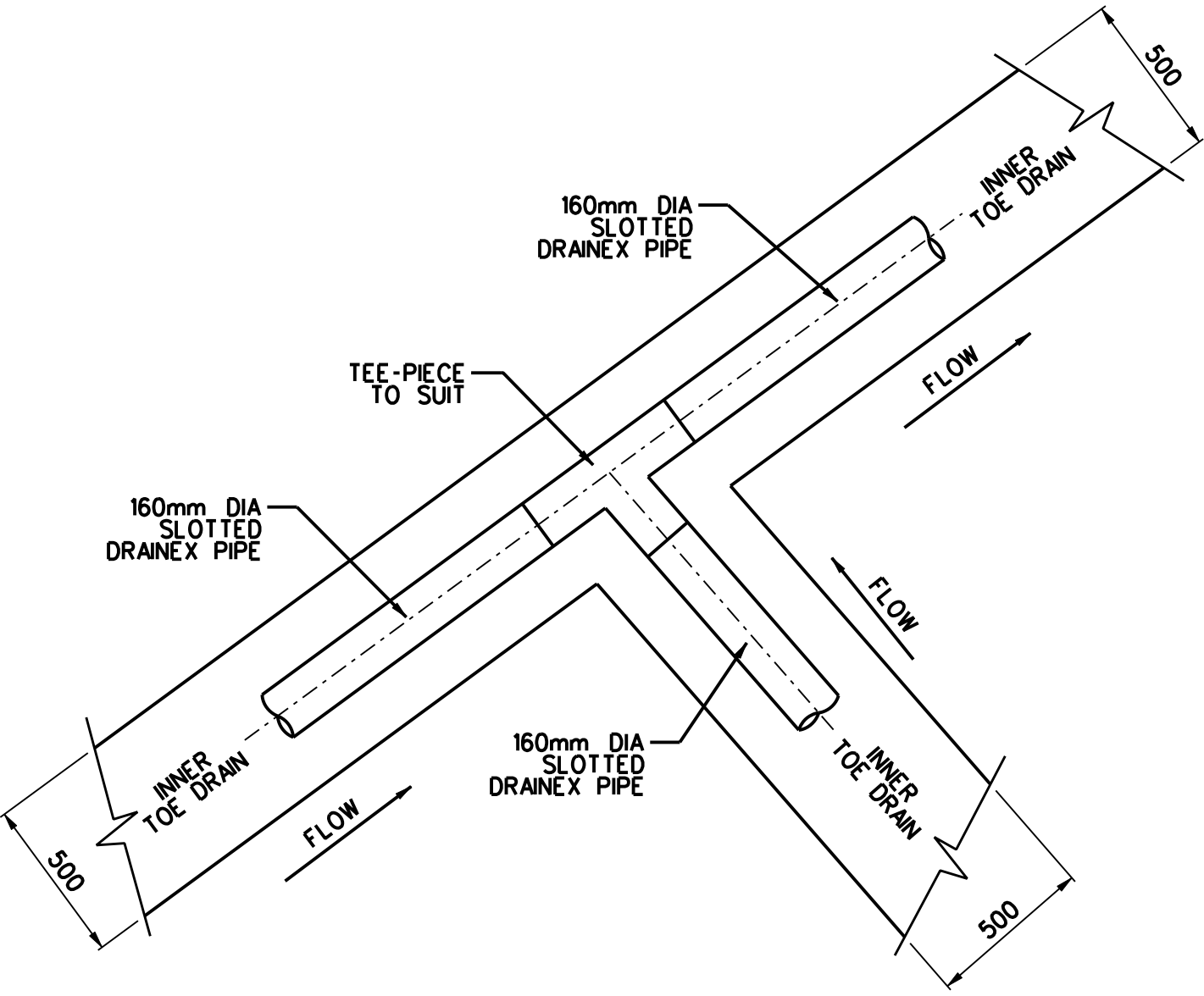
DETAIL 3  
SCALE 1:20



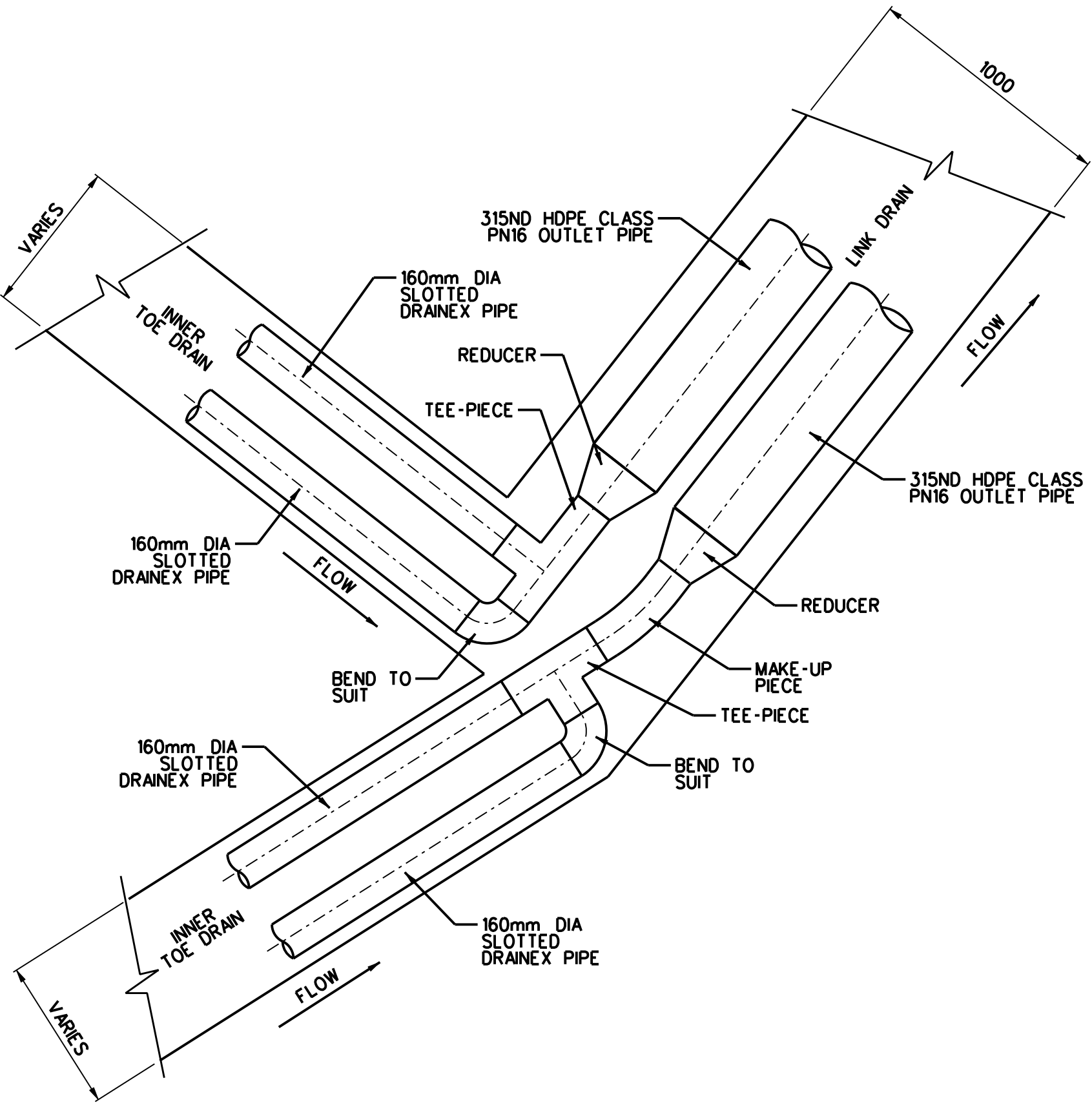
DETAIL 4  
SCALE 1:20



DETAIL 5  
SCALE 1:20



DETAIL 6  
SCALE 1:20



DETAIL 7  
SCALE 1:20

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REV	BY	DATE	DESCRIPTION	DRG.No.	REFERENCE DRAWINGS	DRG.No.	REFERENCE DRAWINGS
1	NS/SA	07-05-2009	DRAWING UPDATED	001	GENERAL ARRANGEMENT		
2	NS/SA	13-05-2009	SLURRY POND 2 WALL ALTERED	004	DRAINAGE DETAILS		
3	NS/SA	22-07-2009	DUMP ALTERED TO SUIT LOADING BIN	011	DRAINAGE COLLECTOR TRENCH LONG SECTION & DETAILS		

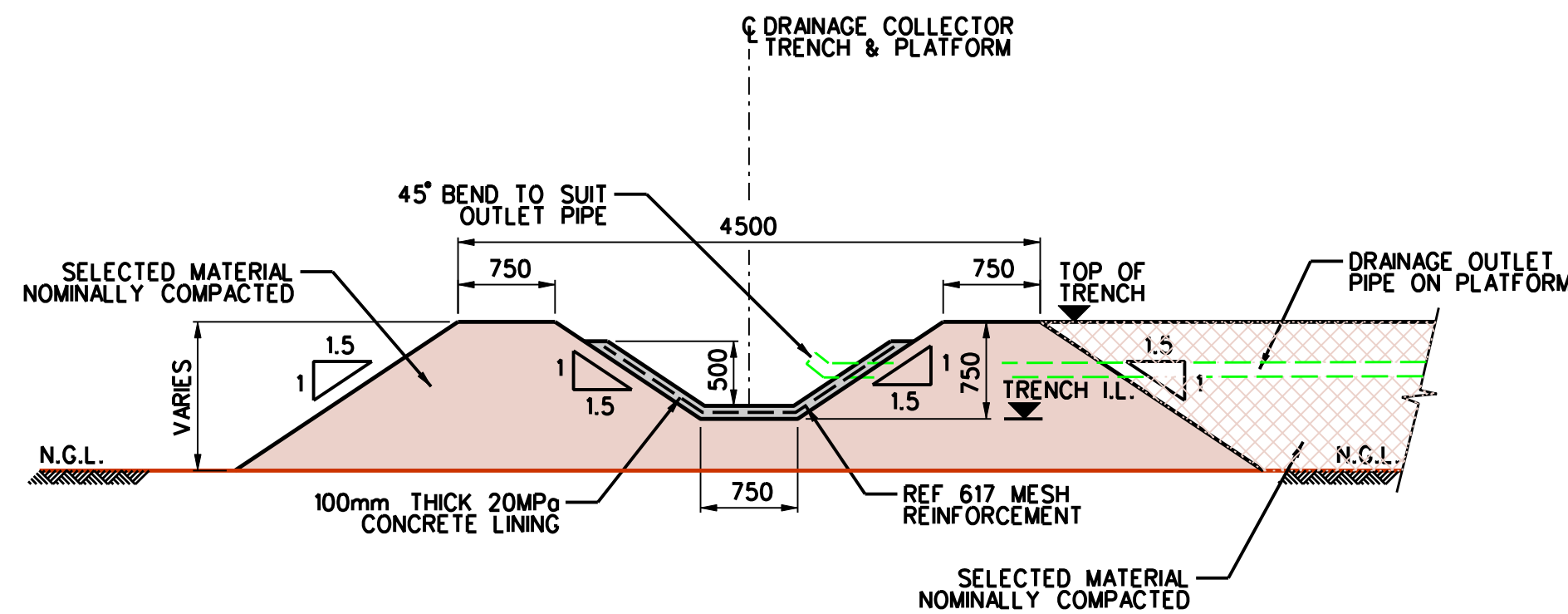
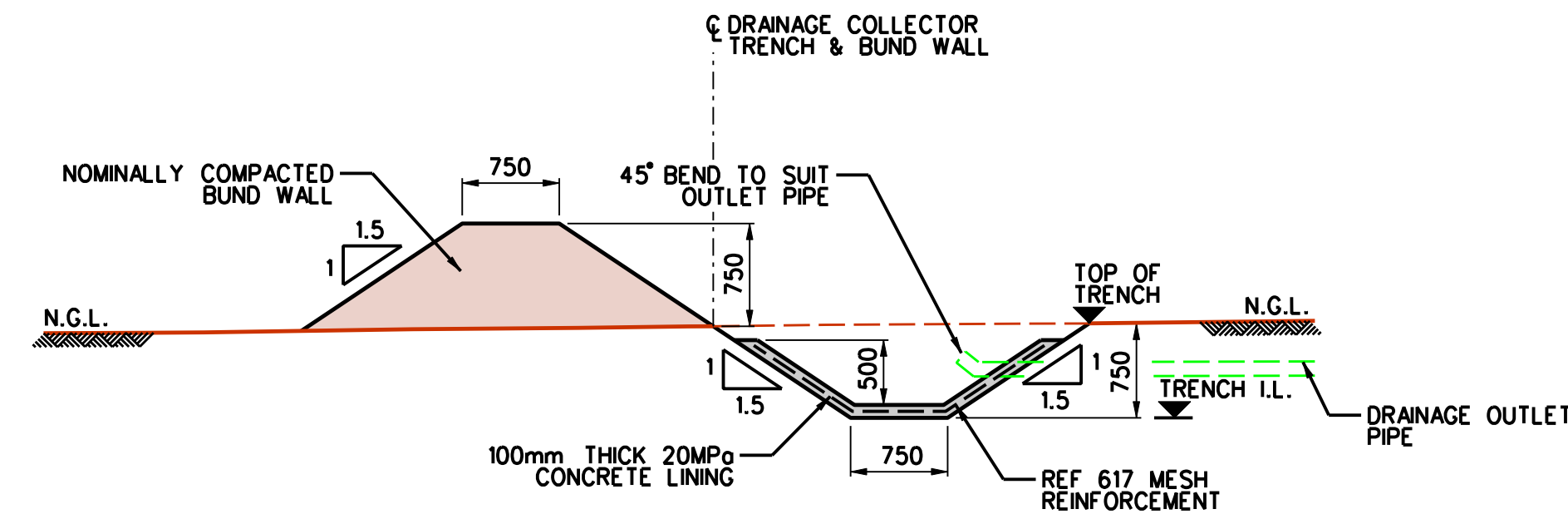
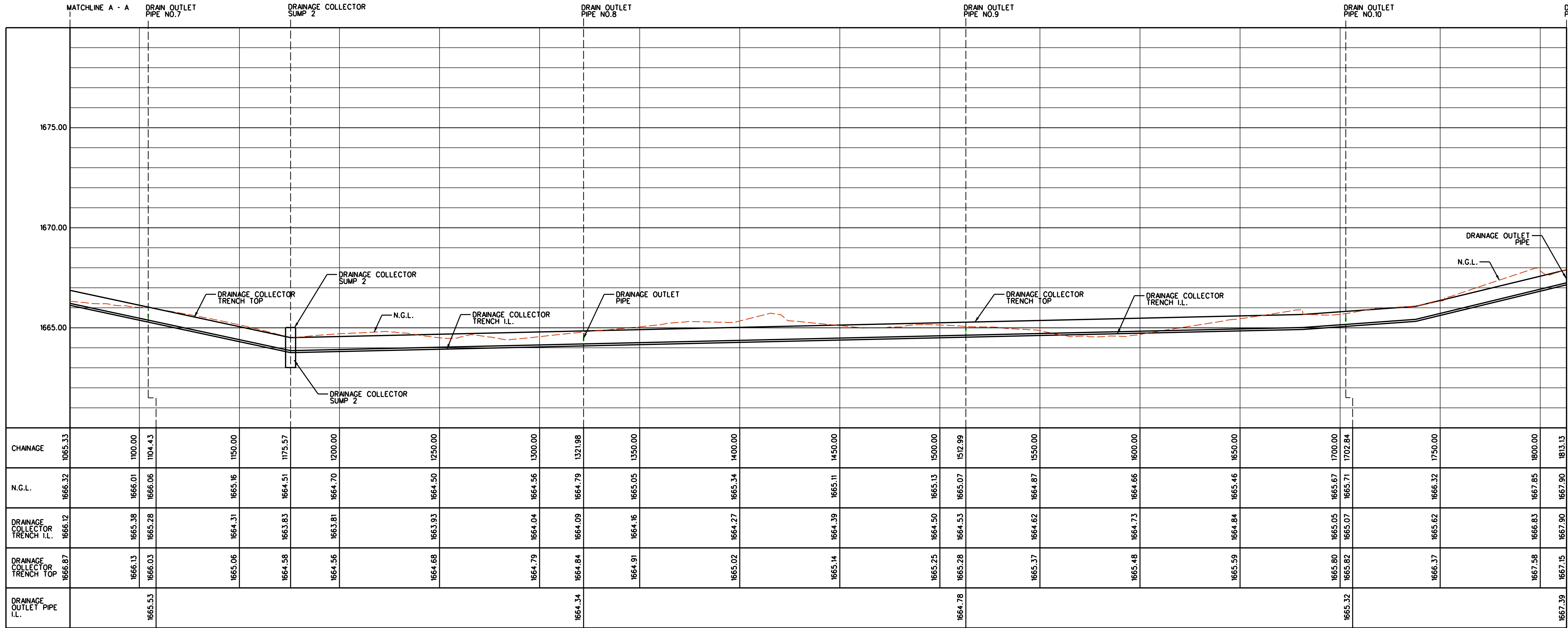
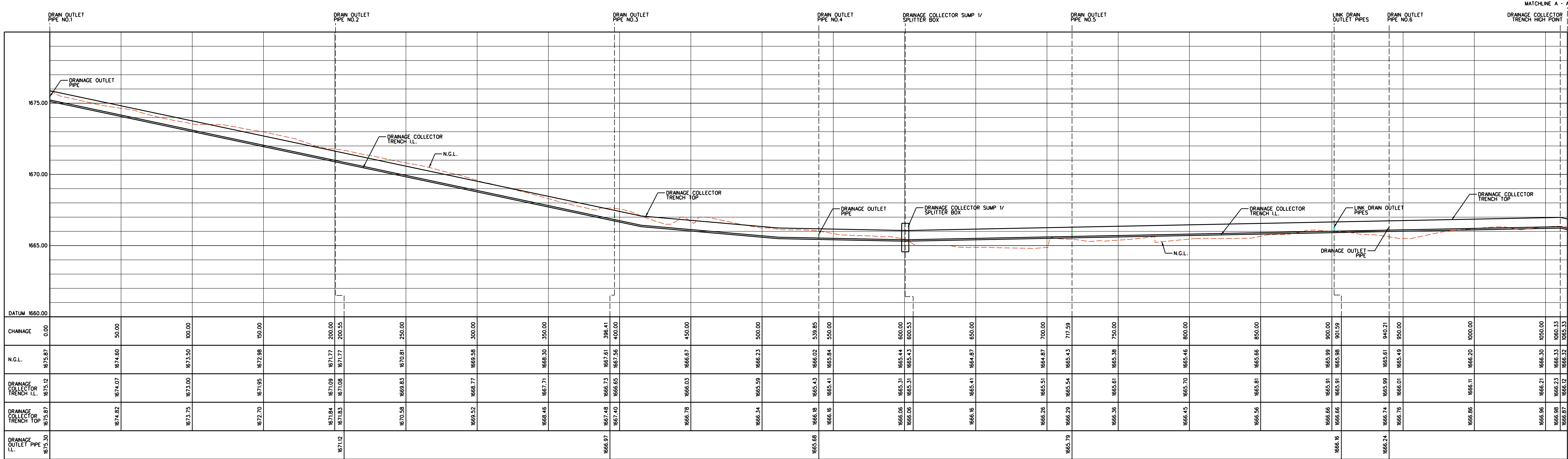
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CLIENT BADGER MINING & CONSULTING (PTY) LTD	DESIGNED	BY N.S.	DATE MAR.09
TITLE MOOIPLAATS COAL DISCARD DUMP DRAINAGE PIPE DETAILS	DRAWN	N.S.	MAR09
	CHECKED		
	SCALE A0-150		
	DRAWING No. T994-010	REVISION 3	

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LONGITUDINAL SECTION - DRAINAGE COLLECTOR TRENCH

HOR SCALE 1:1000  
VERT SCALE 1:100

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REV	BY	DATE	DESCRIPTION	DRG.No.	REFERENCE DRAWINGS	DRG.No.	REFERENCE DRAWINGS	TITLE	CLIENT	DESIGNED	BY	DATE
1	NS/SA	07-05-2009	DRAWING UPDATED	001	GENERAL ARRANGEMENT	010	DRAINAGE PIPE DETAILS		BADGER MINING & CONSULTING (PTY) LTD		N.S.	MAR.09
				002	SETTING OUT COORDINATES					DRAWN	N.S.	MAR.09
				003	EARTHWORKS SECTIONS & DETAILS					CHECKED		
				004 SHT 1	DRAINAGE DETAILS					SCALE	AS-SHOWN	
				004 SHT 2	DRAINAGE COLLECTOR SUMP DETAILS					DRAWING No.	1994-011	REVISION
				008	PENSTOCK OUTFALL PIPELINE DETAILS							1

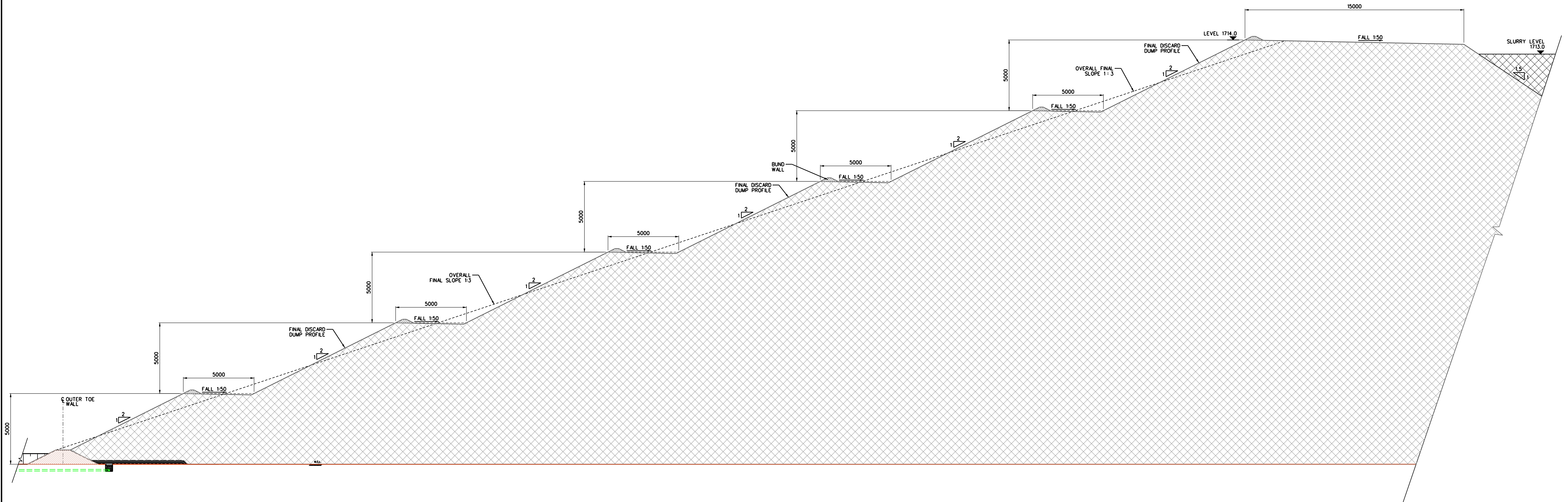
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BADGER MINING & CONSULTING (PTY) LTD	DESIGNED	N.S.	APR.09
TITLE  MOOIPLAATS COAL DISCARD DUMP RETURN WATER DAM DECANT SUMP DETAILS	DRAWN	S.A.	APR.09
	CHECKED	-	-
	SCALE AS SHOWN		
	DRAWING No.	T994-012	REVISION 2





SECTION - FINAL DISCARD DUMP PROFILE  
SCALE 1:100

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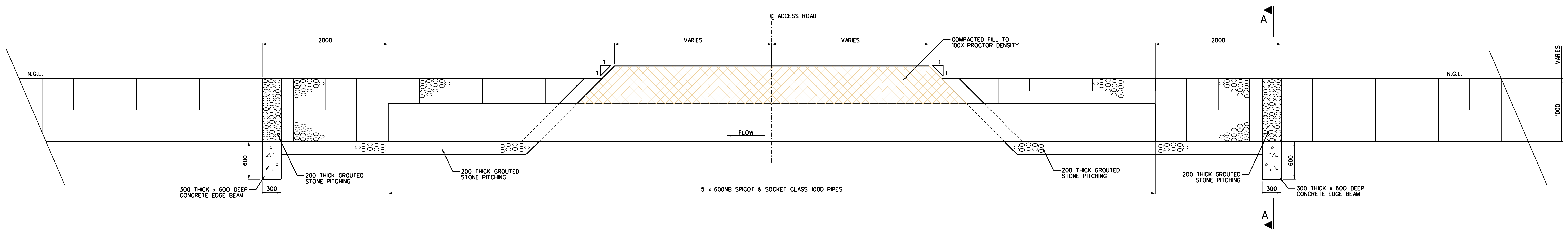
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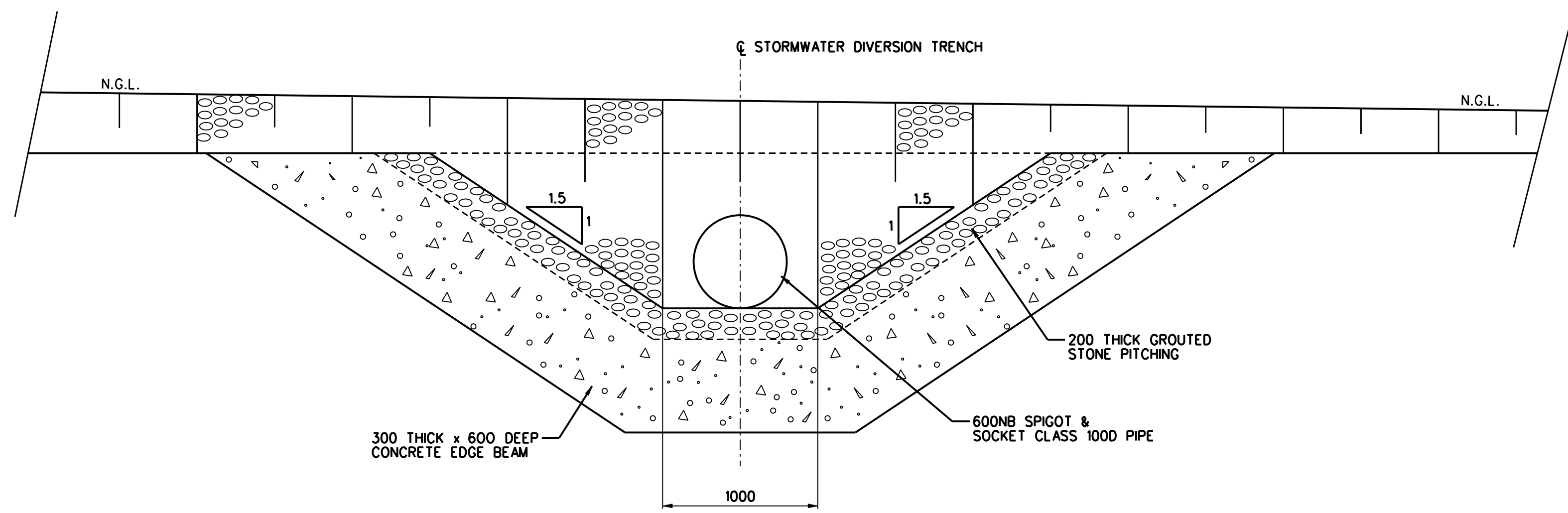
DO NOT SCALE

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1	NS/SA	07-05-2009	DRAWING UPDATED	001	GENERAL ARRANGEMENT				BADGER MINING & CONSULTING (PTY) LTD	MOOIPLAATS COAL DISCARD DUMP FINAL PROFILE		N.S.	APR.09
											DRAWN	S.A.	APR.09
											CHECKED		
											SCALE	A0=1:50	
											DRAWING No.	T994-013	REVISION 1





SECTION - CULVERT  
SCALE 1:25



SECTION A - A  
SCALE 1:25

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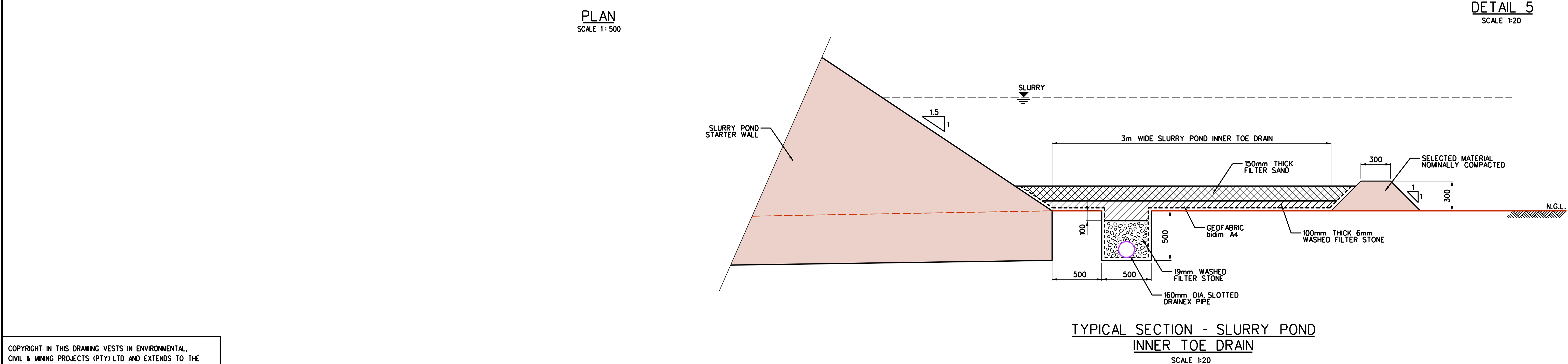
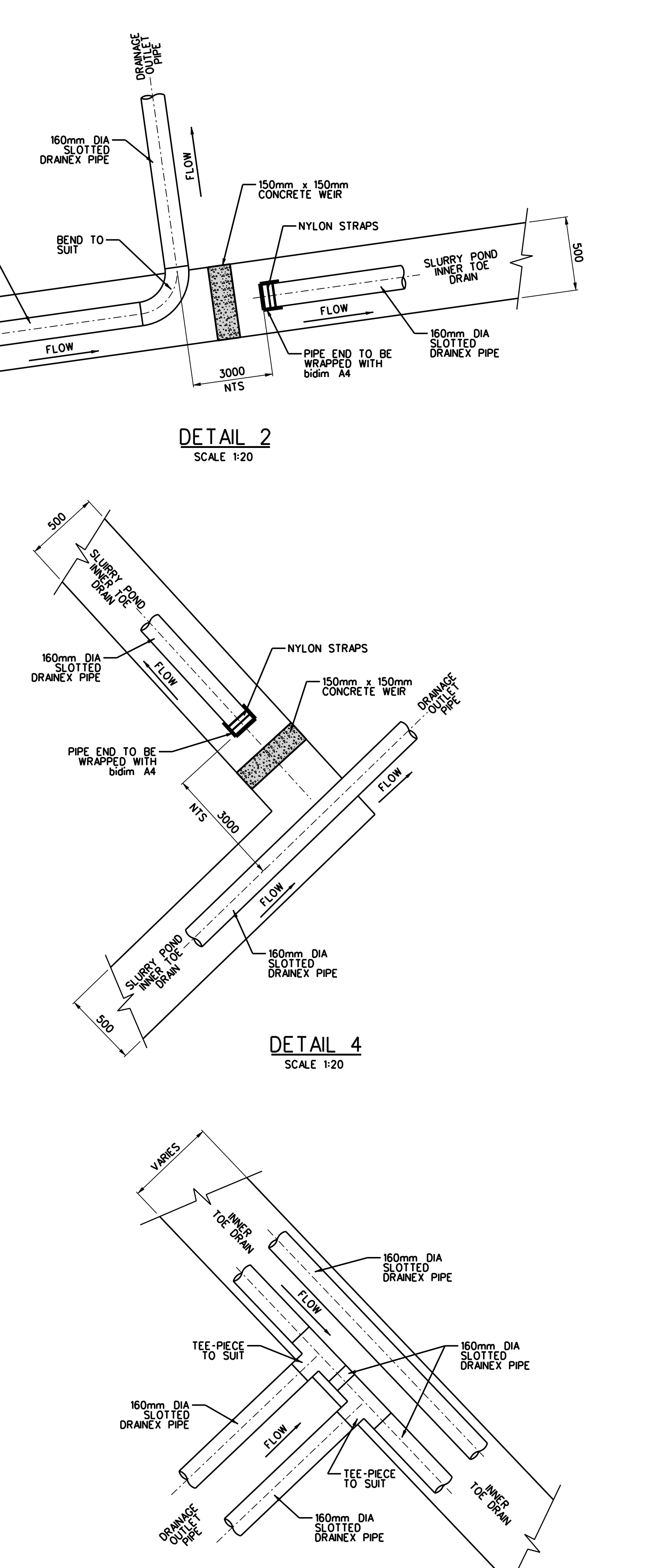
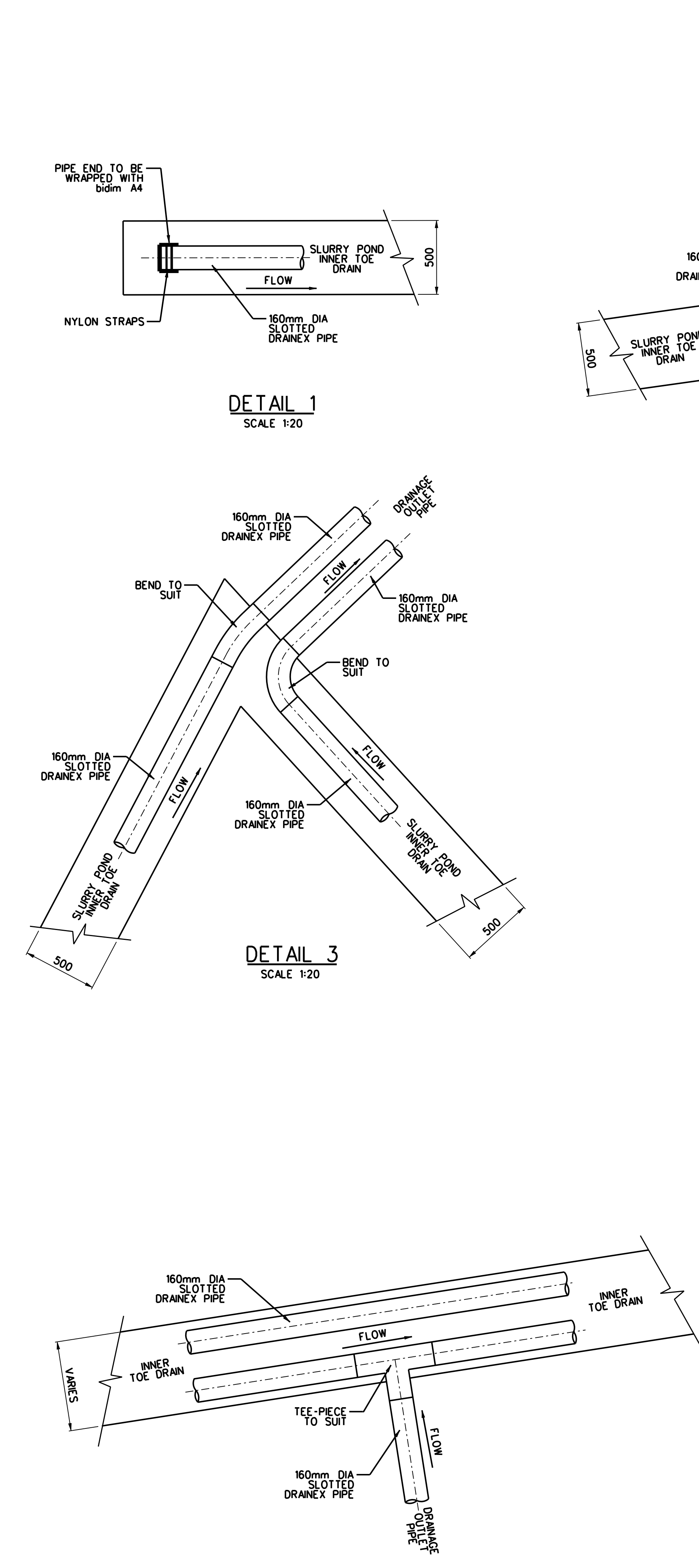
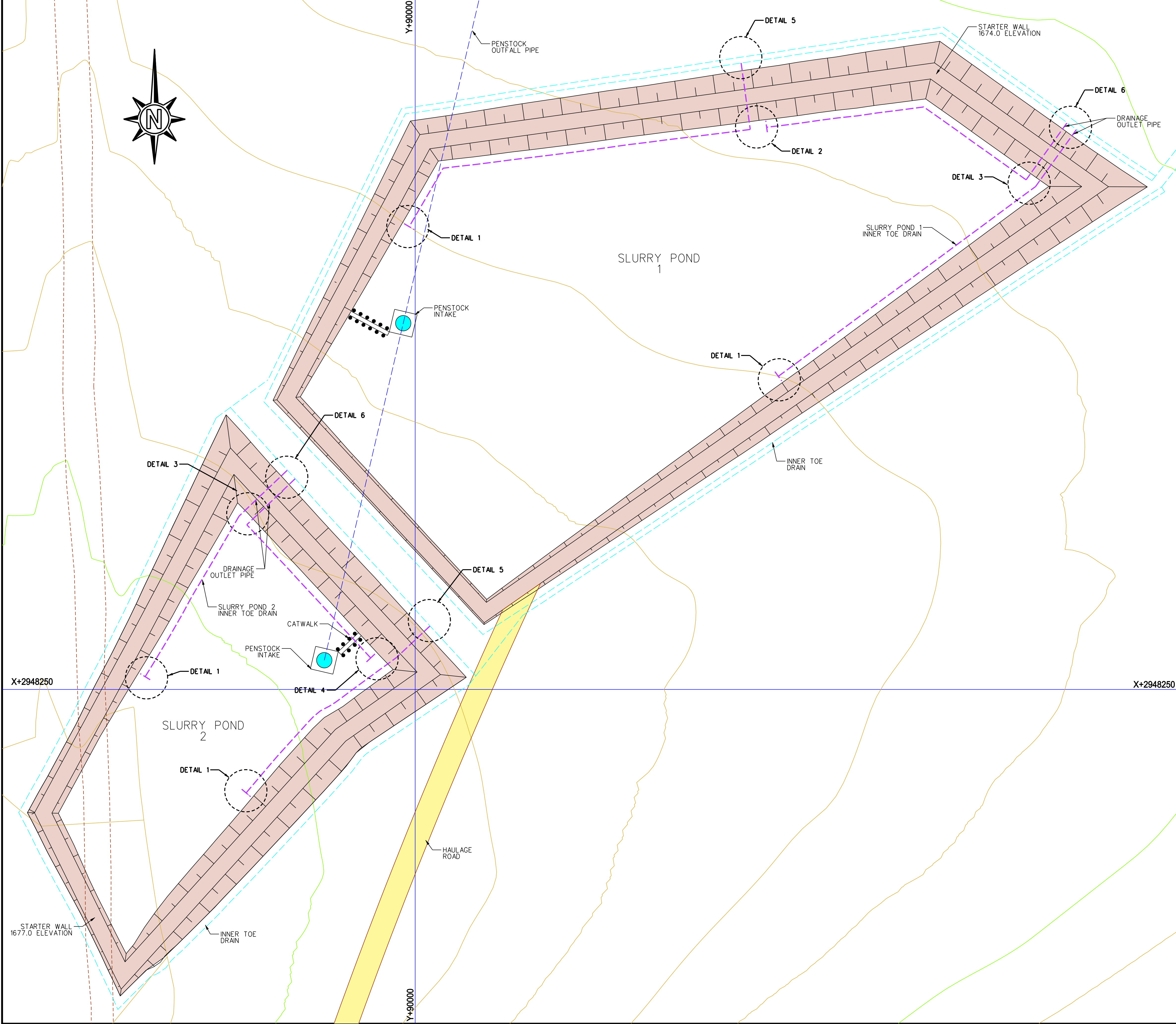
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REV	BY	DATE	DESCRIPTION	DRG.No.	REFERENCE DRAWINGS	DRG.No.	REFERENCE DRAWINGS	CLIENT	TITLE	DESIGNED	BY	DATE
1	NS/SA	11-05-2009	DRAWING UPDATED	001	GENERAL ARRANGEMENT			BADGER MINING & CONSULTING (PTY) LTD	MOOIPLAATS COAL DISCARD DUMP PIPE CULVERT SECTIONS AND DETAILS		N.S.	APR.09
										DRAWN	S.A.	APR.09
										CHECKED		
										SCALE	AS SHOWN	
										DRAWING No.	T994-014	REVISION 1

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REV	BY	DATE	DESCRIPTION	DRG.No.	REFERENCE DRAWINGS	DRG.No.	REFERENCE DRAWINGS
1	NS/SA	11-05-2009	DRAWING UPDATED	001	GENERAL ARRANGEMENT		
2	NS/SA	13-05-2009	SLURRY POND 2 WALL ALTERED	004	DRAINAGE DETAILS		

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CLIENT	BADGER MINING & CONSULTING (PTY) LTD	DESIGNED	BY	DATE
TITLE	MOOIPLAATS COAL DISCARD DUMP SLURRY PONDS DRAINAGE PIPE DETAILS	DRAWN	N.S.	MAY.09
		CHECKED	S.A.	MAY.09
		SCALE	A0-1:20	
		DRAWING No.	T994-015	REVISION
				2

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