

P1001-EB1I-CIV-0001 - Refurbishment of the Ebenezer WTW and Pump Station



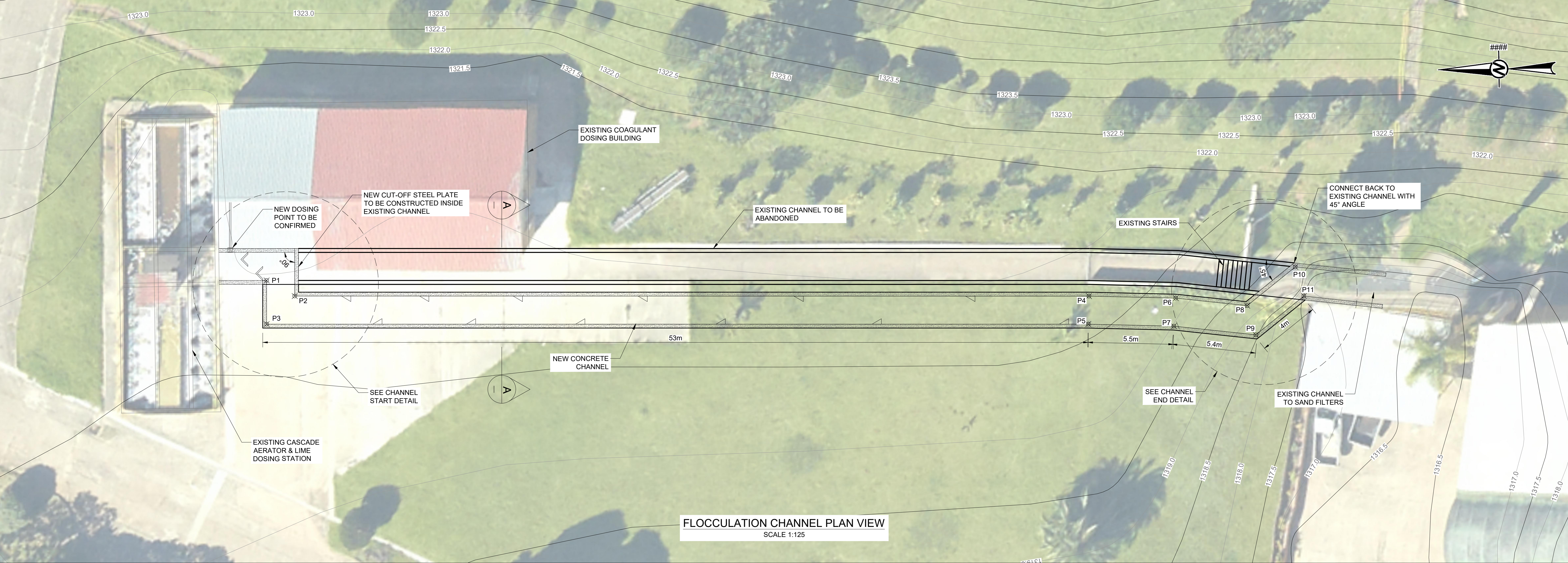
Document Register

Rev a

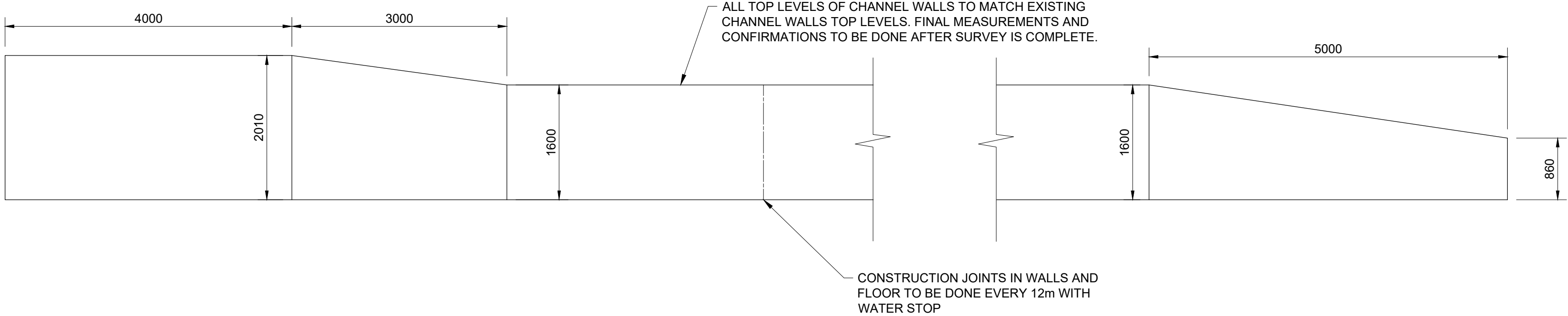
Date of Issue:

2022/10/25

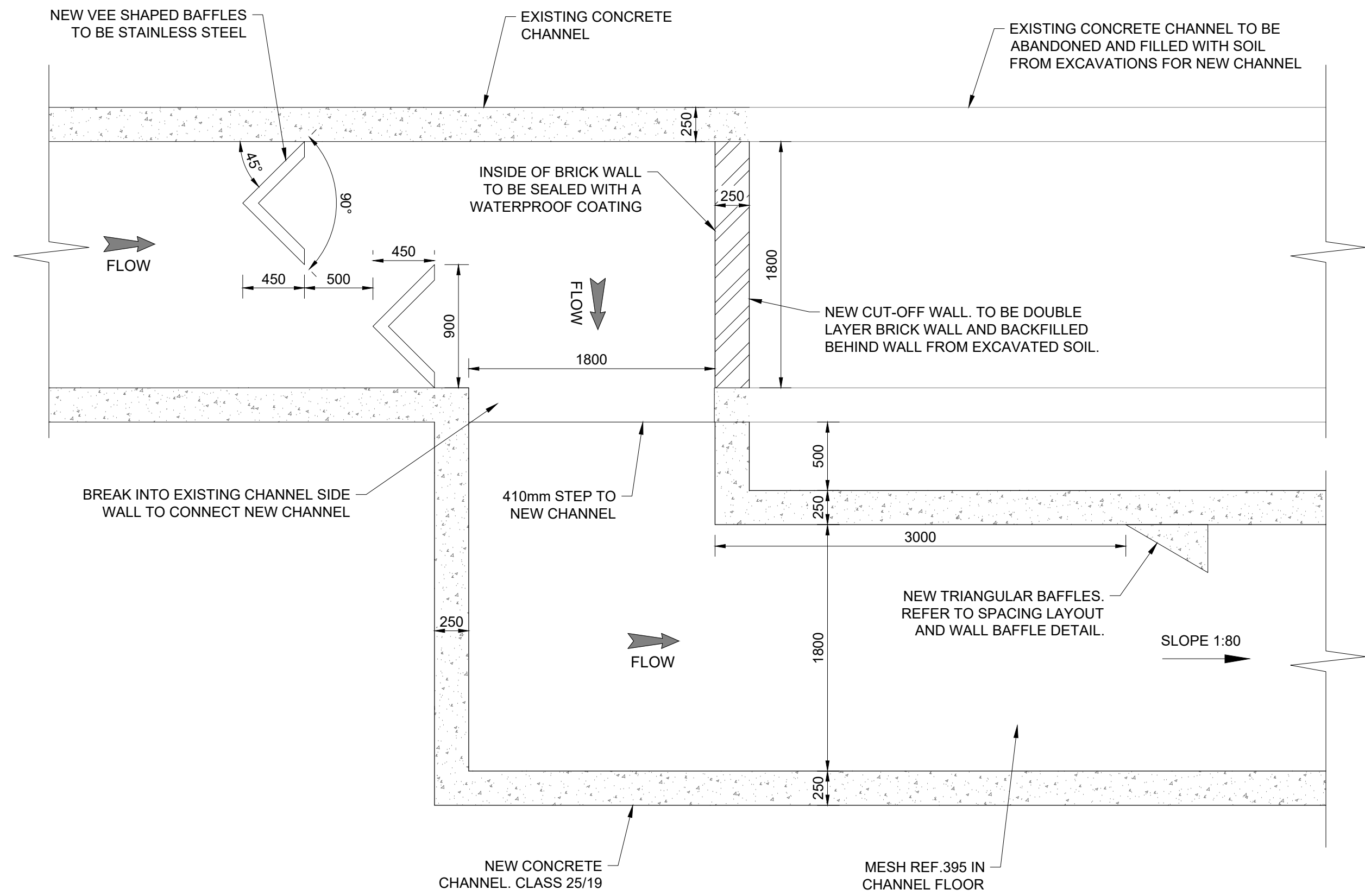
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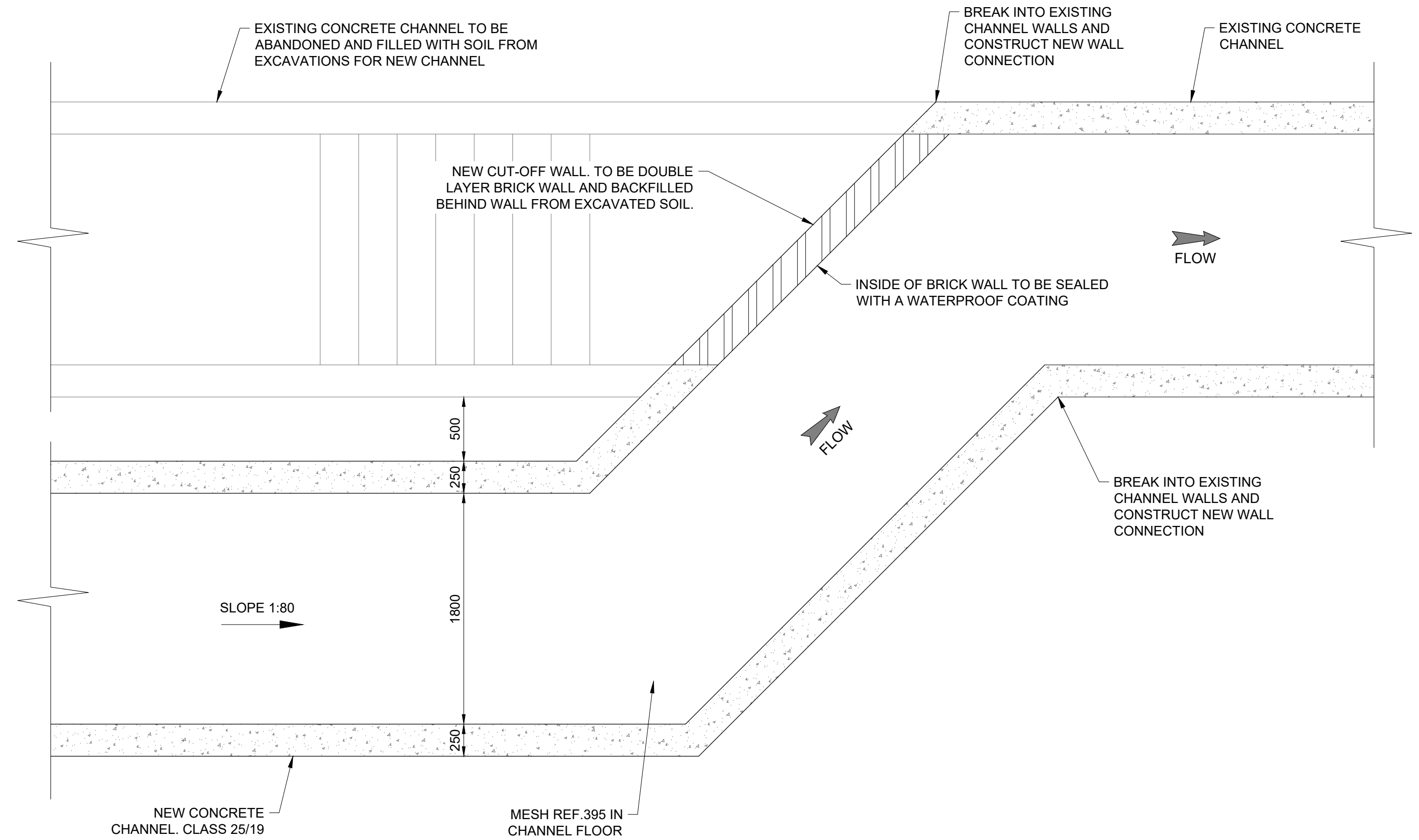
FLOCCULATION CHANNEL PLAN VIEW
SCALE 1:125



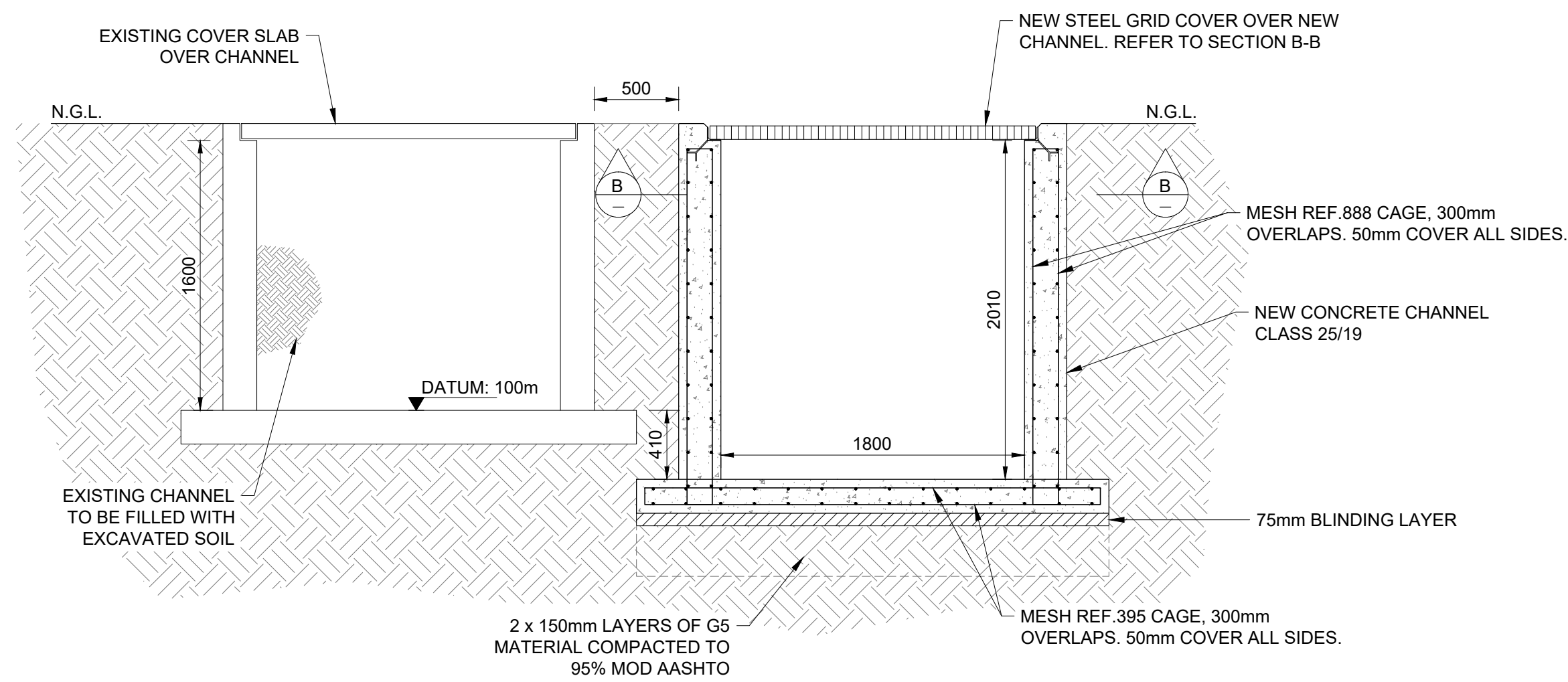
SIDE ELEVATION OF FLOCCULATION CHANNEL
SCALE 1:50



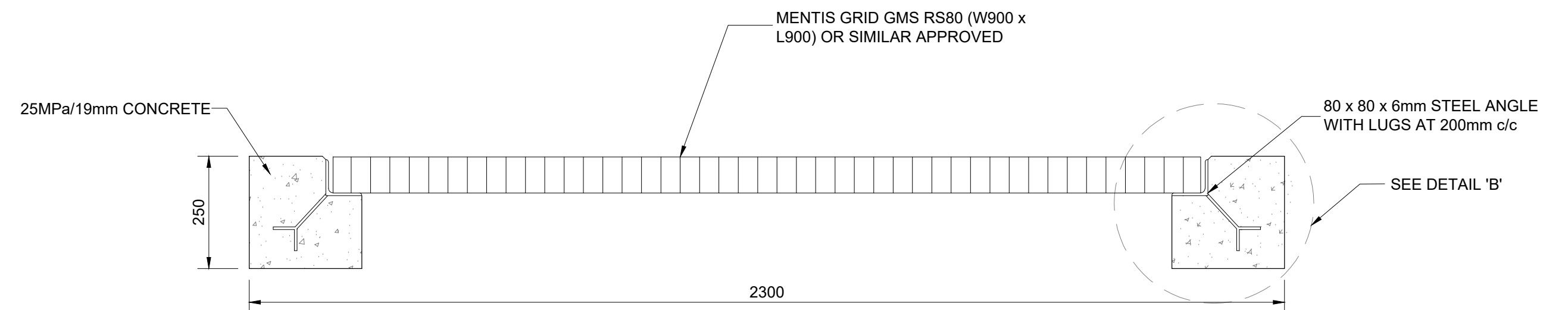
CHANNEL START DETAIL
SCALE 1:30



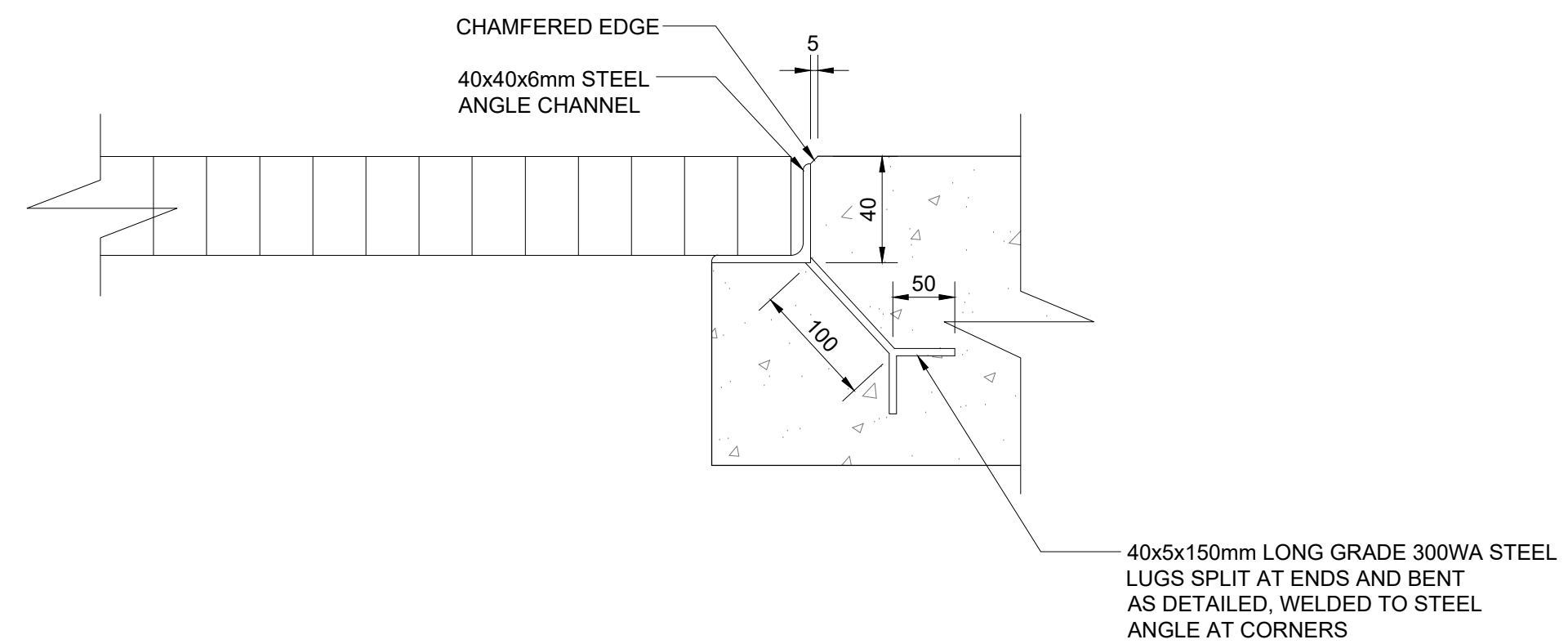
CHANNEL END DETAIL
SCALE 1:30



CHANNEL CROSS-SECTION
SECTION A-A
SCALE 1:30



SECTION B-B
SCALE 1:10



DETAIL B
SCALE 1:5

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E. COETZEE

CHECKED BY:

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REVISIONS

REV	DATE	DESCRIPTION	BY
a	2022-09-05	ISSUED FOR TENDER	R.O

PROJECT NAME

UPGRADE OF OLIFANTSPOORT AND EBENEZER
WATER SUPPLY SCHEME

TITLE

FLOCCULATION CHANNEL DETAILS AND SECTIONS
FOR EBENEZER WTW UPGRADES

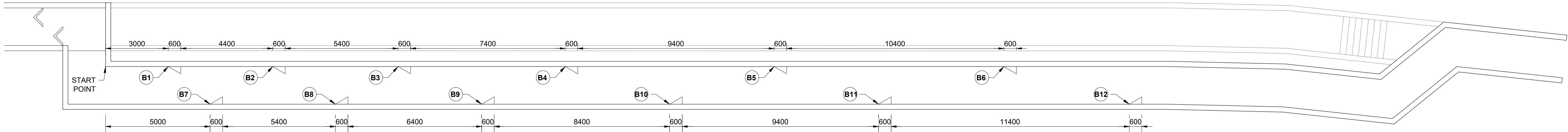
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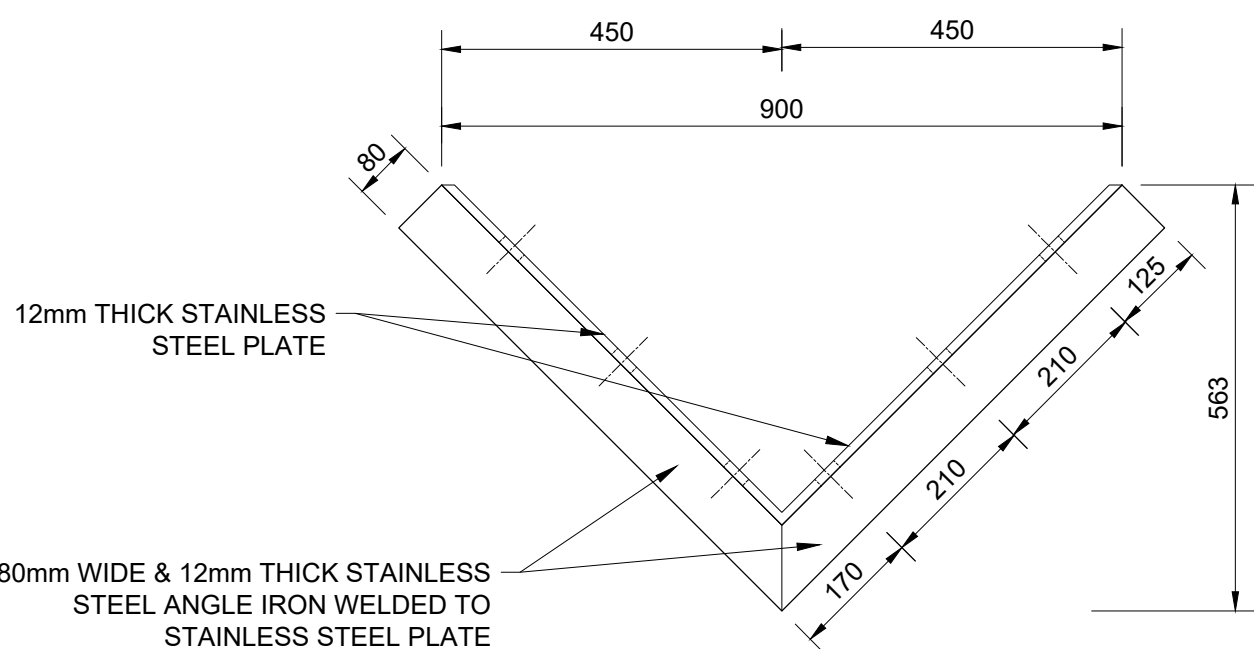
DWG NO

P1001-EB1L-CIV-0402

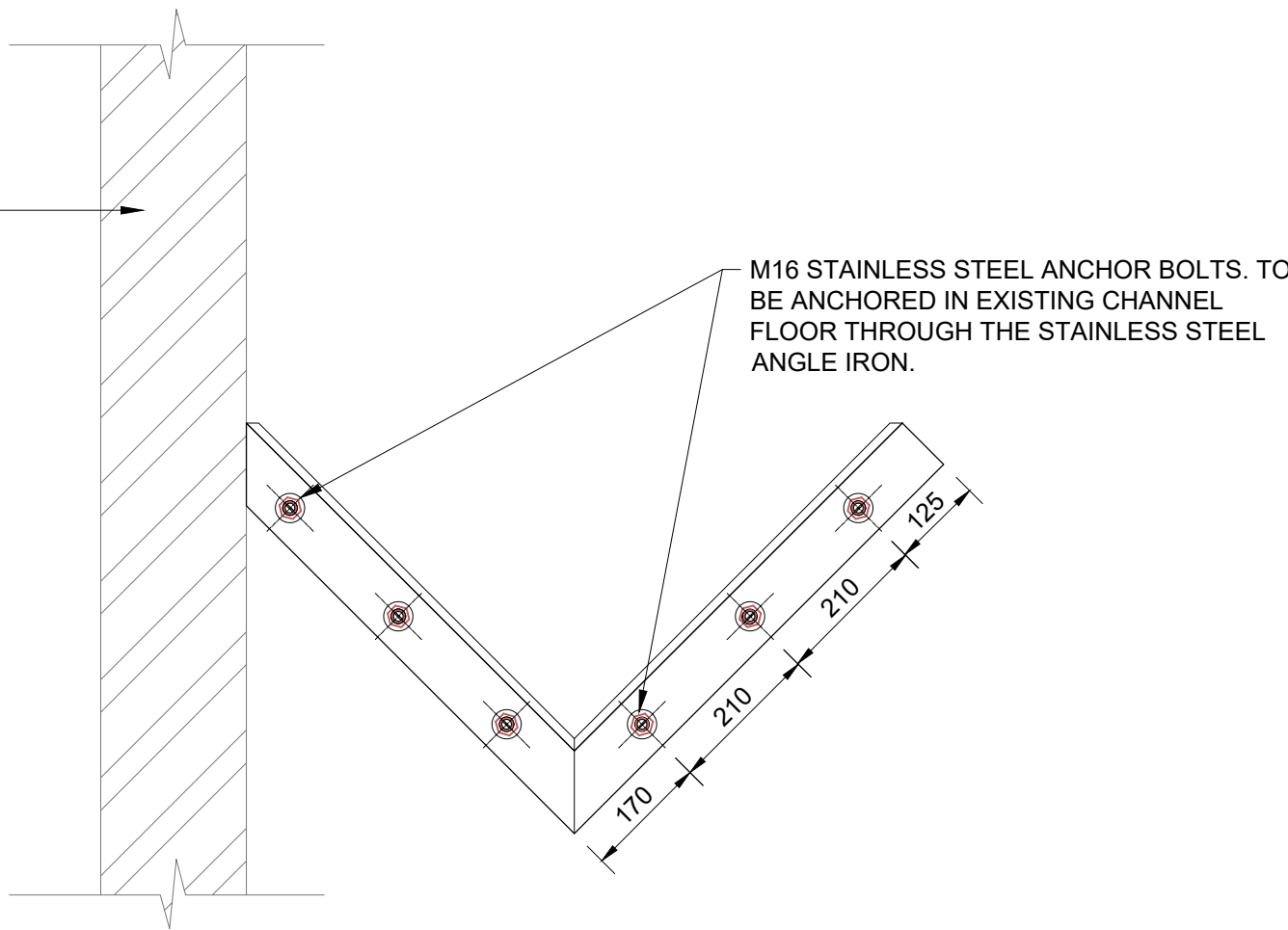


NUMBER	DISTANCE FROM START POINT
B1	3m
B2	8m
B3	14m
B4	22m
B5	32m
B6	43m
B7	5m
B8	11m
B9	18m
B10	27m
B11	37m
B12	49m

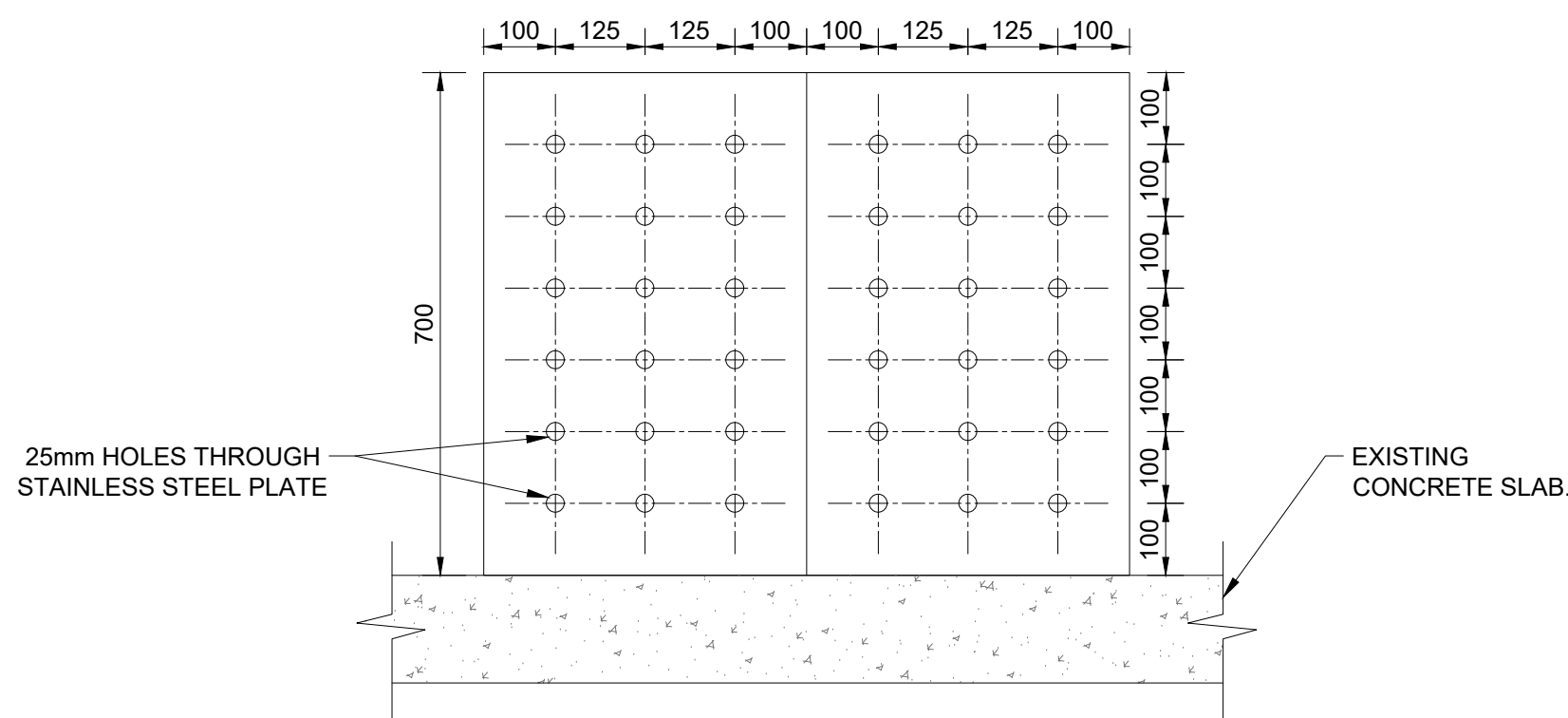
BAFFLE SPACING LAYOUT
SCALE 1:100



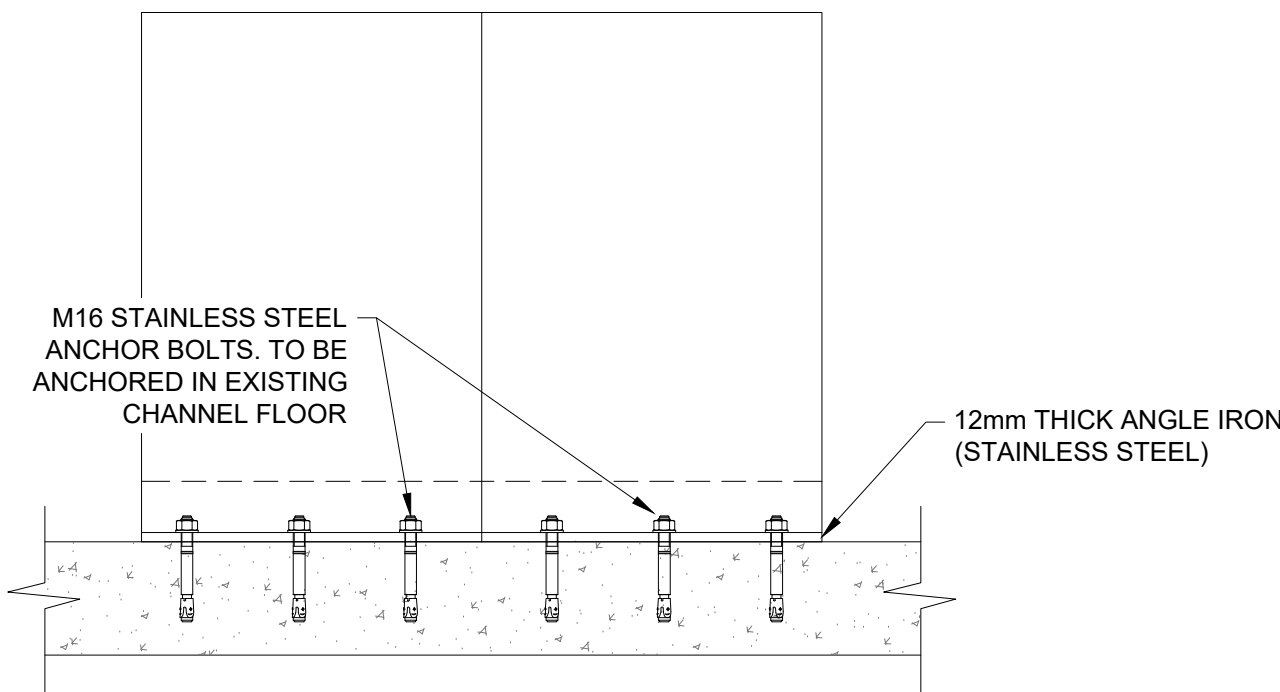
VEE BAFFLE PLATES
PLAN VIEW
SCALE 1:10



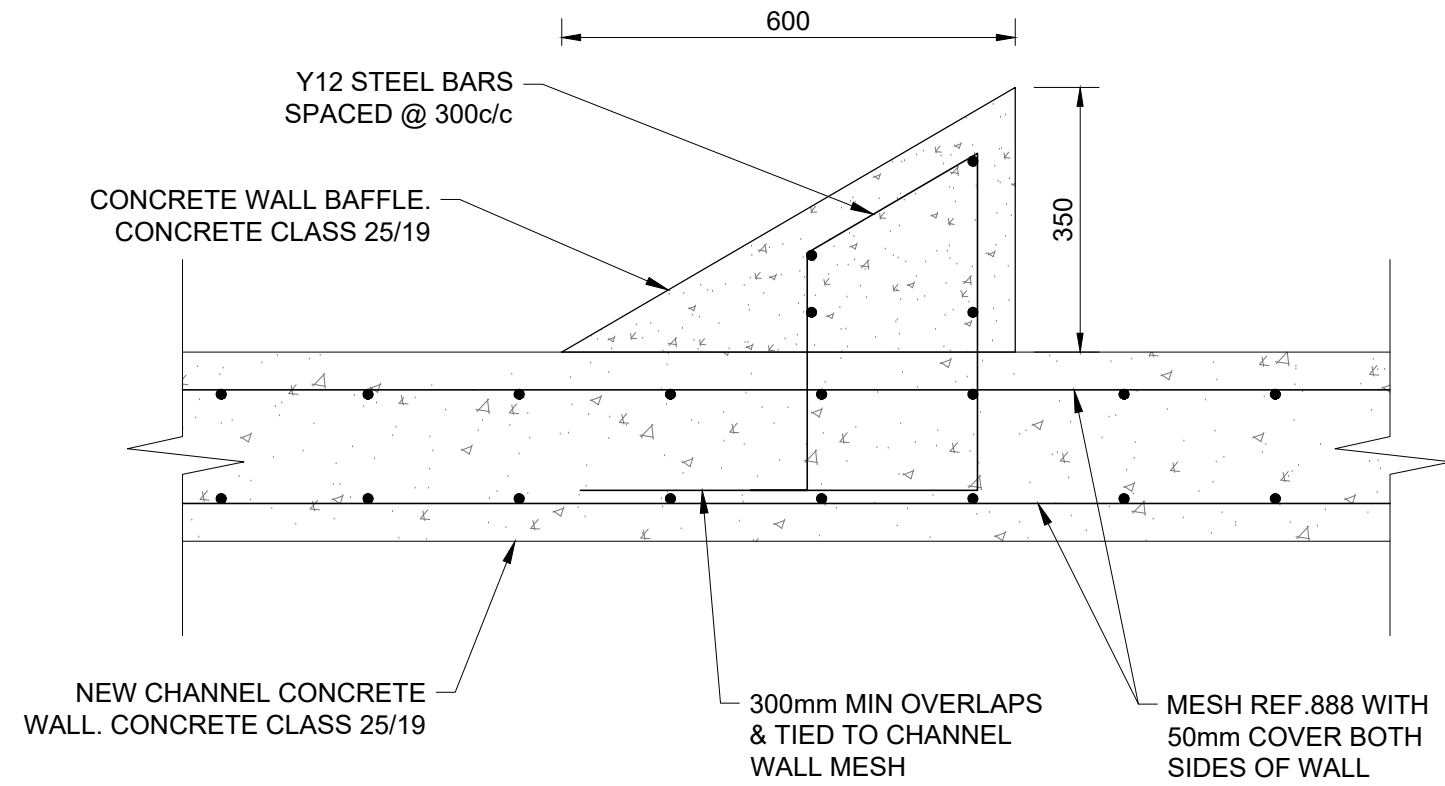
VEE BAFFLE ANCHORS
PLAN VIEW
SCALE 1:10



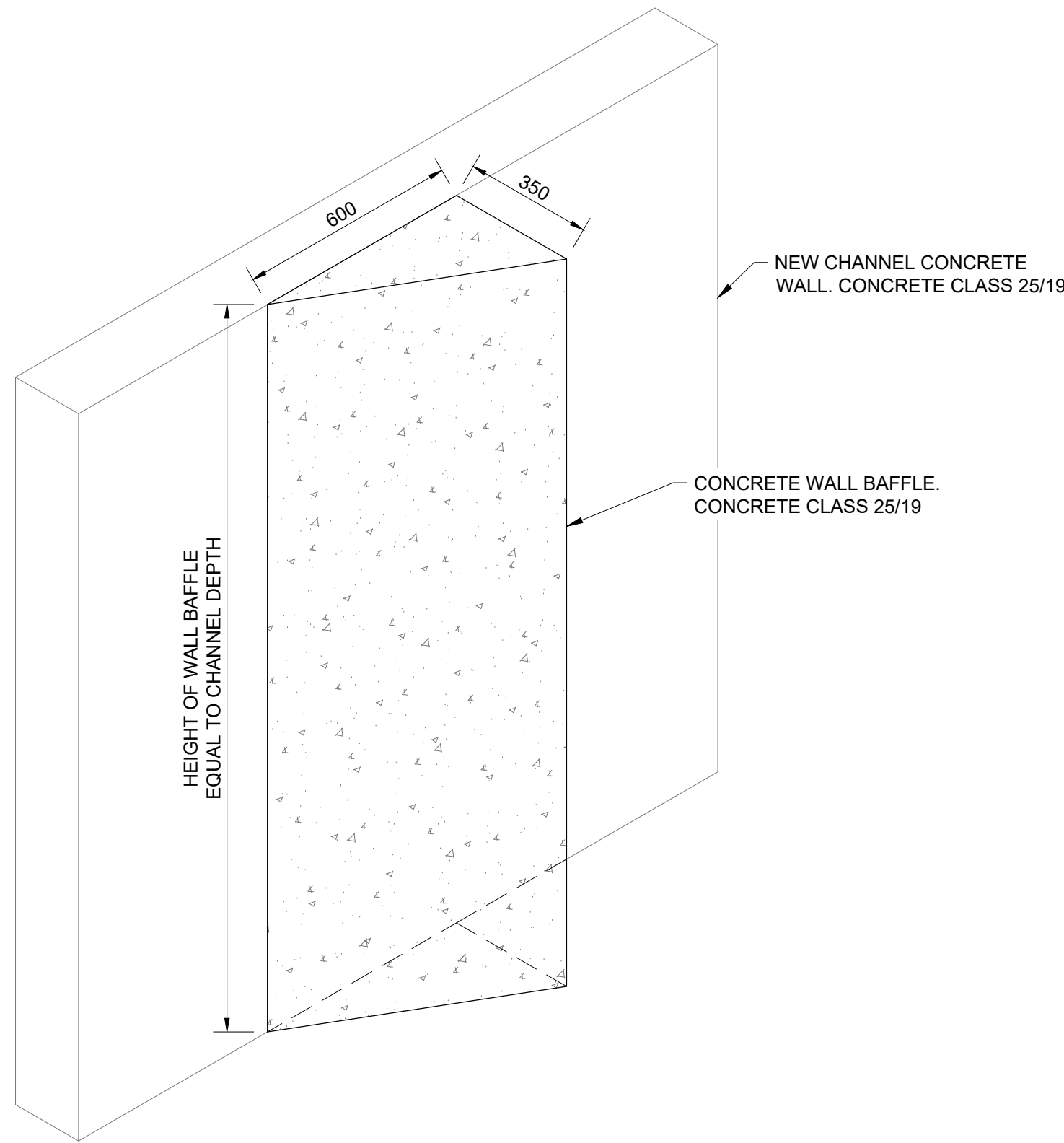
VEE BAFFLE PLATES
SECTION C-C
SCALE 1:10



VEE BAFFLE ANCHORS
FRONT VIEW
SCALE 1:10



CONCRETE WALL BAFFLE
PLAN VIEW
SCALE 1:10



CONCRETE WALL BAFFLE
ISOMETRIC VIEW
SCALE 1:15

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REVISIONS

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a	2022-09-05	ISSUED FOR TENDER	R.O

PROJECT NAME

UPGRADE OF OLIFANTSPOORT AND EBENEZER
WATER SUPPLY SCHEME

TITLE

BAFFLE LAYOUT, SECTIONS AND DETAILS
FOR EBENEZER WTW UPGRADES

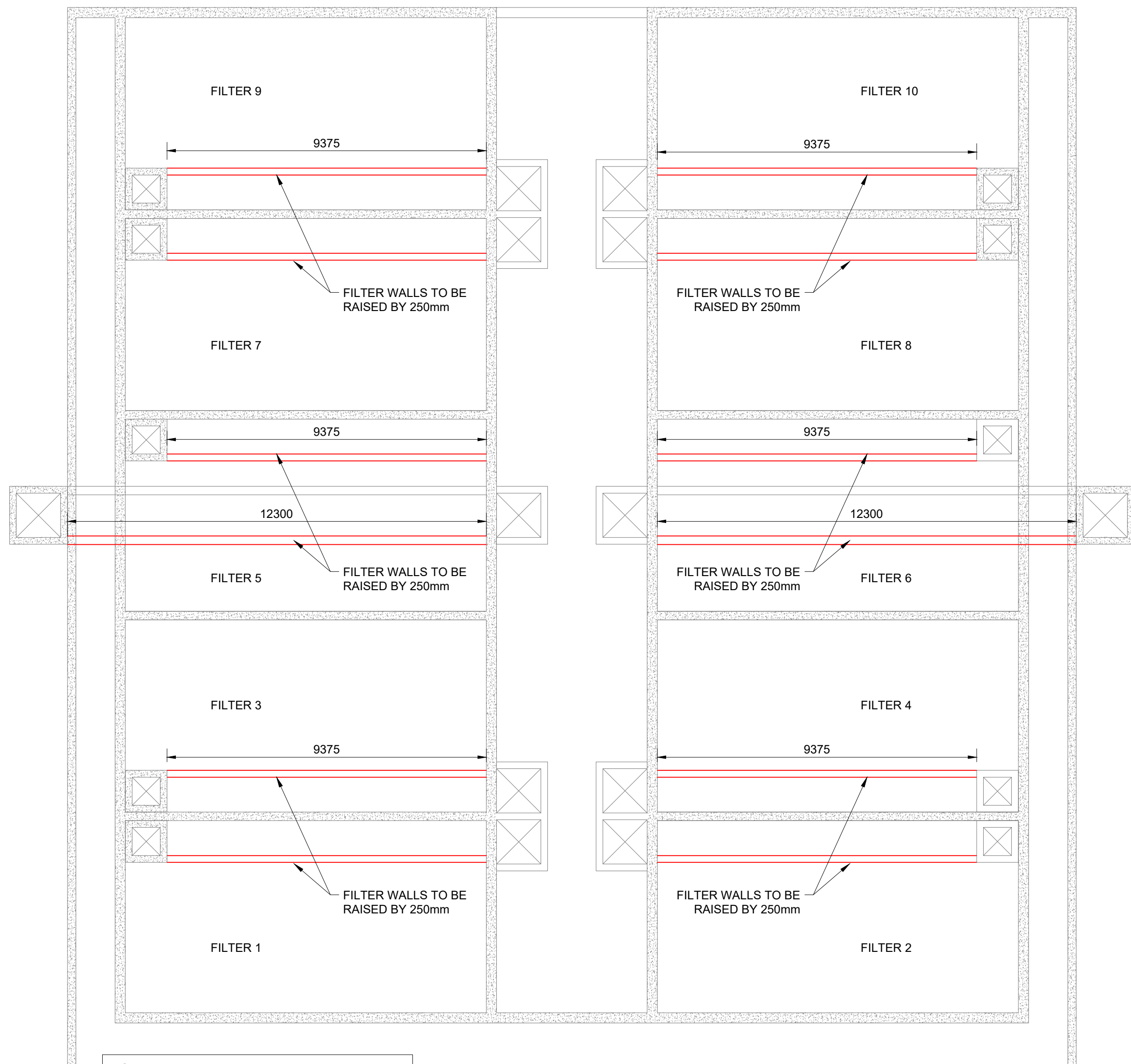
PROJECT STATUS:

TENDER

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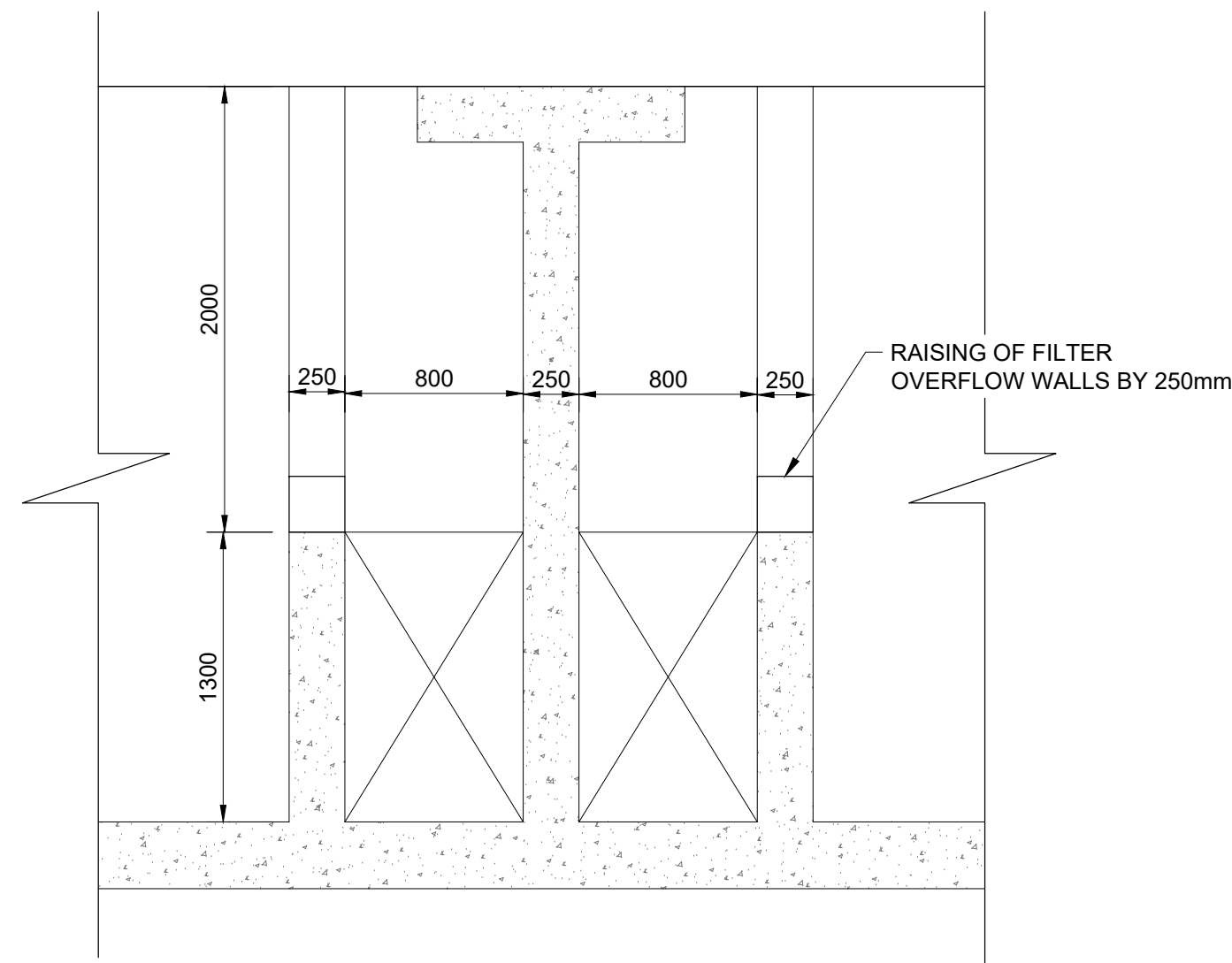
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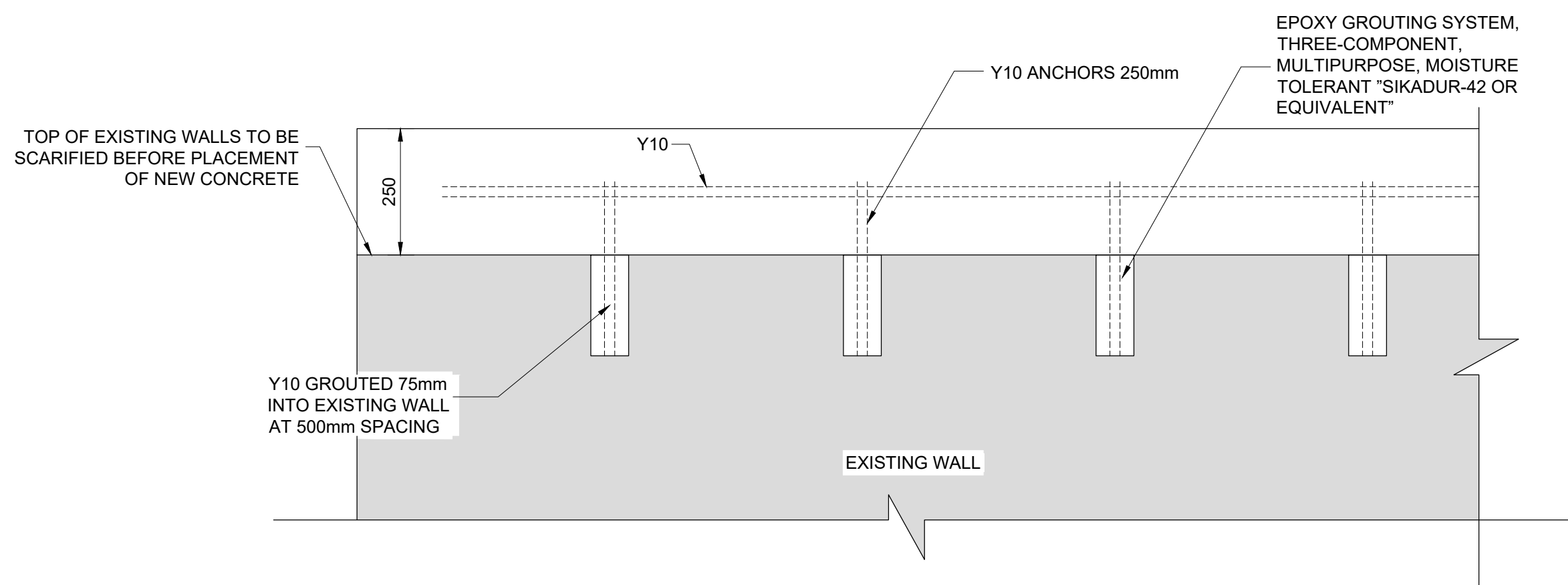


NOTE:
FINAL WALL DIMENSION TO BE CONFIRMED AFTER SURVEY COMPLETED ONCE SITE HAS STARTED.

LAYOUT SHOWING FILTER WALLS THAT
ARE TO BE RAISED
SCALE 1:100



SECTION OF FILTER WALLS
SCALE 1:30



TYPICAL RAISING OF WALLS ON SAND FILTERS
SCALE 1:10

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REV	DATE	DESCRIPTION	BY
a	2022-09-05	ISSUED FOR TENDER	R.O

PROJECT NAME

UPGRADE OF OLIFANTSPOORT AND EBENEZER
WATER SUPPLY SCHEME

TITLE

LAYOUT AND DETAILS FOR RAISING OF FILTER WALLS
FOR EBENEZER WTW UPGRADES

PROJECT STATUS:

TENDER

DATE	SCALE	SHEET	REV	A1
2022-09-05	AS SHOWN	1 OF 1	a	A1

DWG NO

P1001-EB1L-CIV-0404



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REVISIONS			
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a	2022-09-05	ISSUED FOR TENDER	R.O

PROJECT NAME

UPGRADE OF OLIFANTSPOORT AND EBENEZER
WATER SUPPLY SCHEME

TITLE

LOCALITY PLAN FOR SUMP AT SLUDGE DAM
FOR EBENEZER WTW UPGRADES

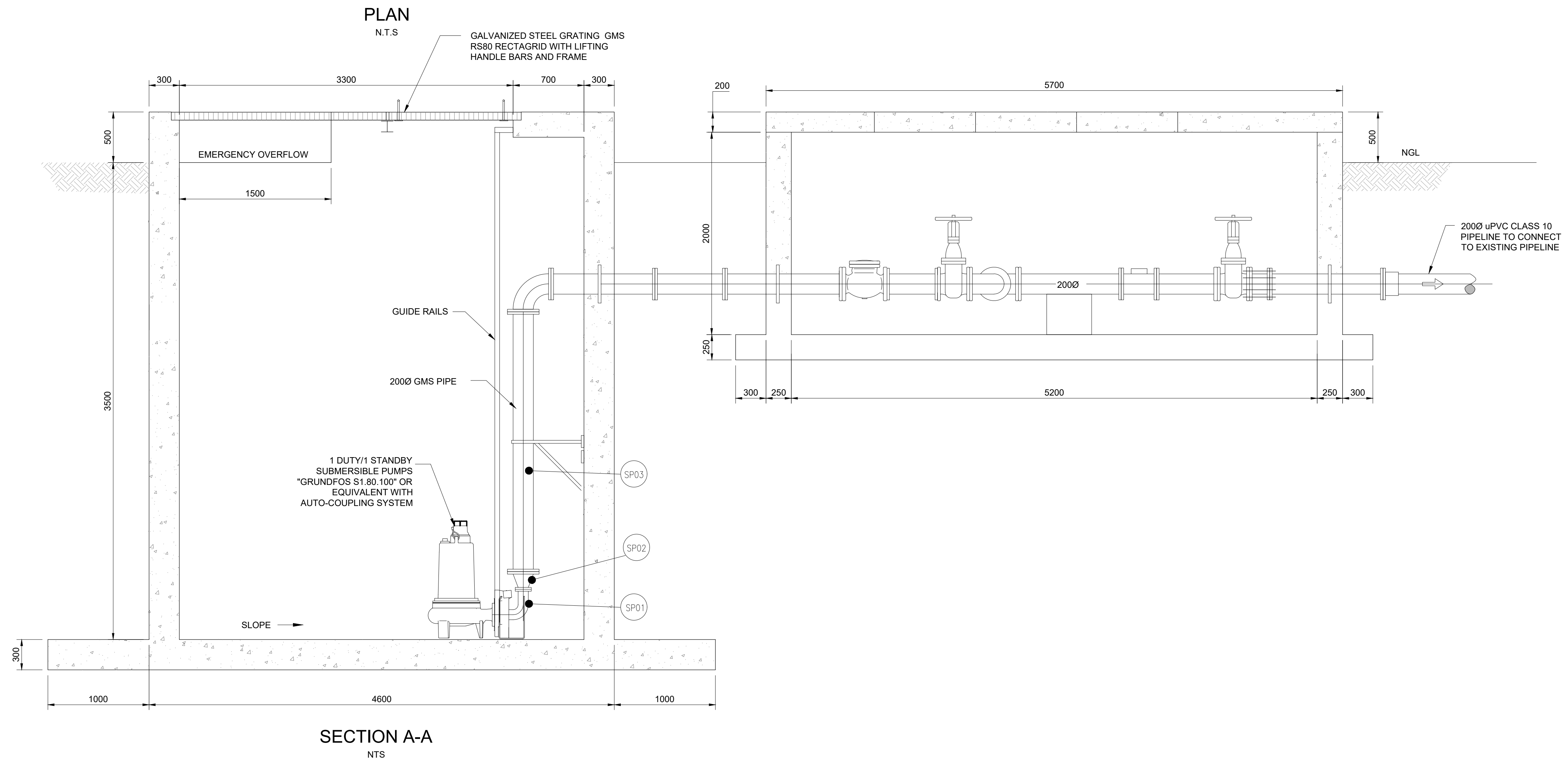
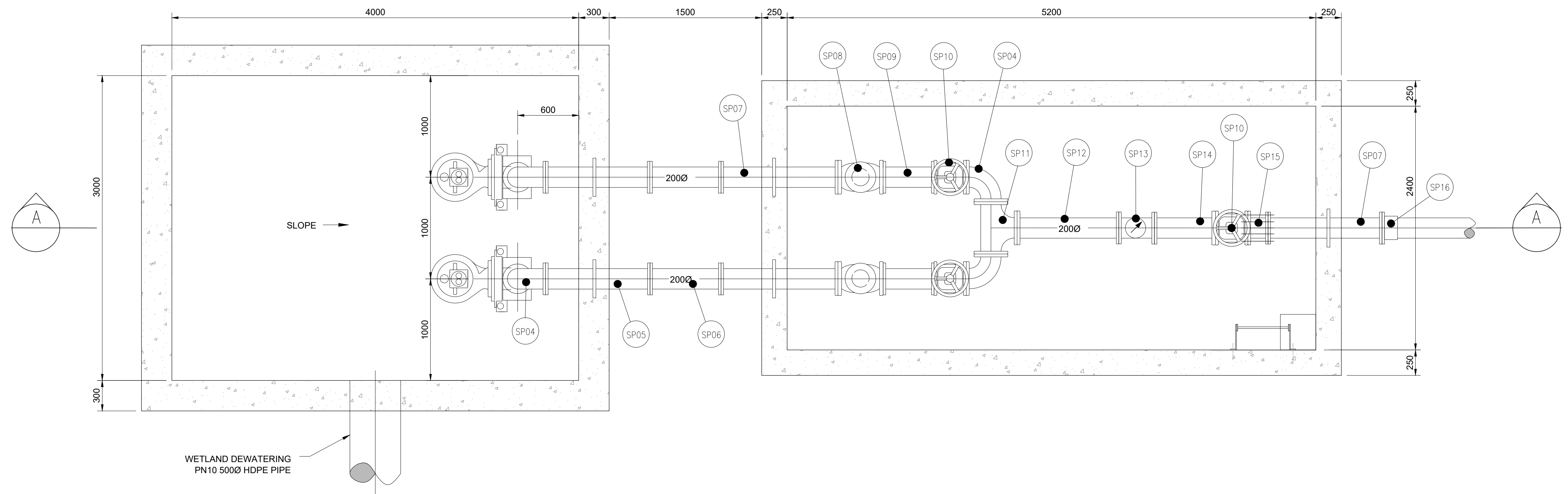
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DWG NO

P1001-EB1L-CIV-0405



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REV	DATE	DESCRIPTION	BY
a	2022-09-05	ISSUED FOR TENDER	R.O

PROJECT NAME

UPGRADE OF OLIFANTSPOORT AND EBENEZER
WATER SUPPLY SCHEME

TITLE

PLAN AND SECTION FOR SUMP AND VALVE CHAMBER
FOR EBENEZER WTW UPGRADES

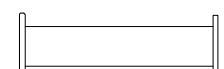
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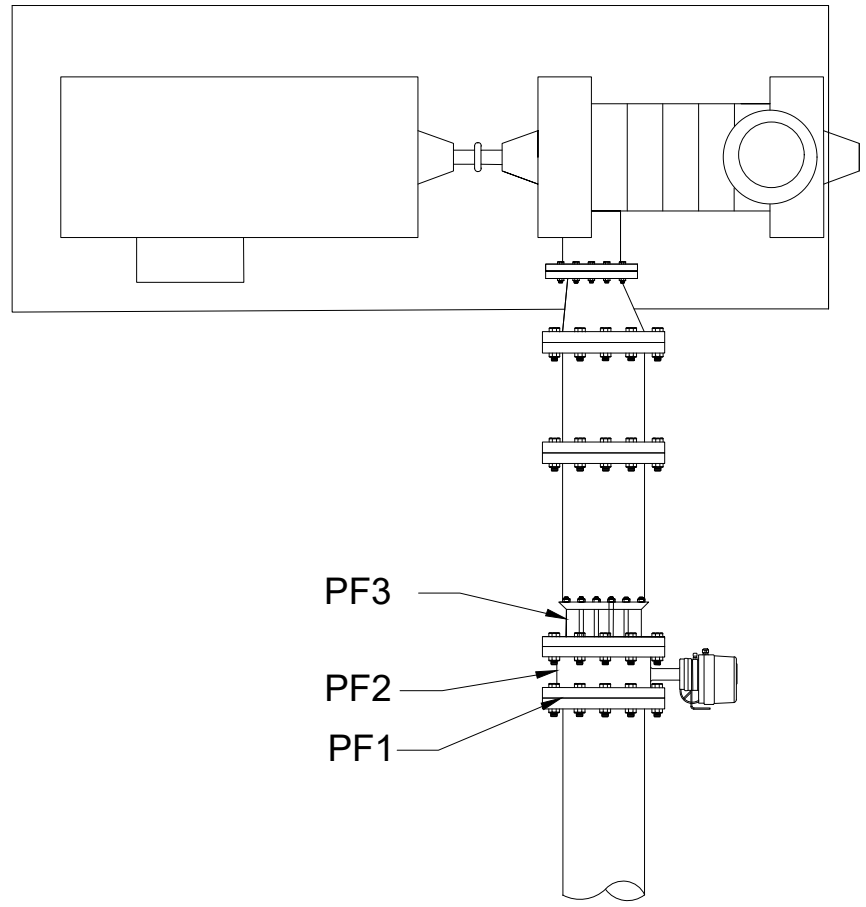
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DWG NO

P1001-EB1L-CIV-0406

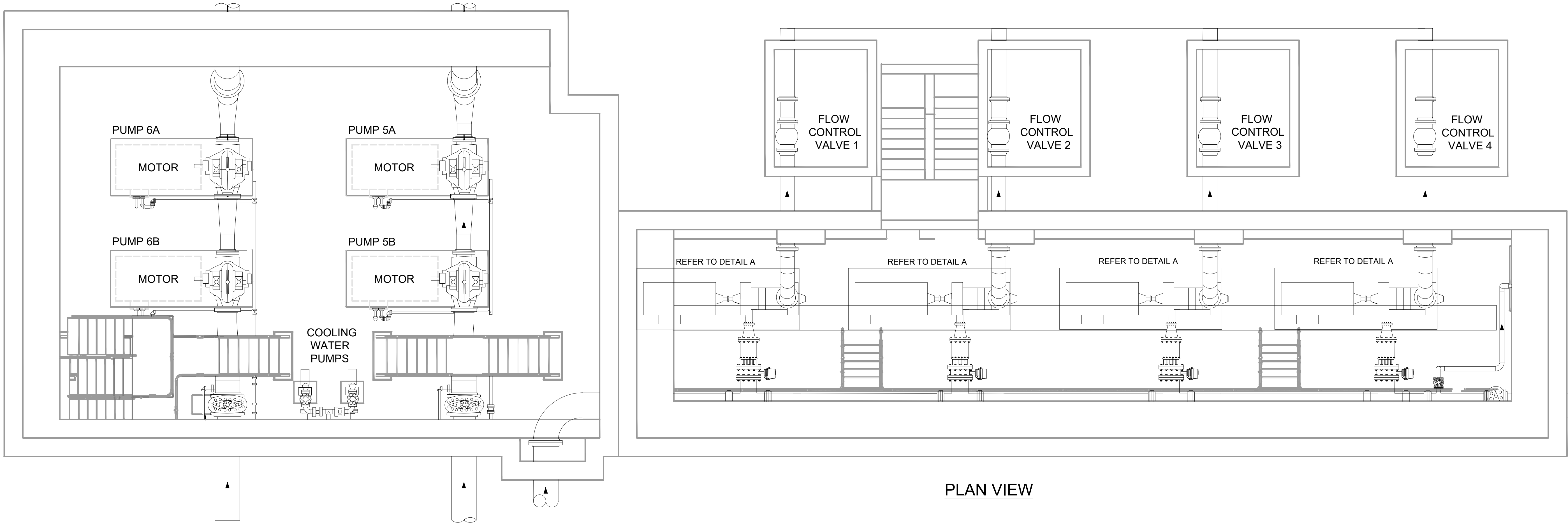
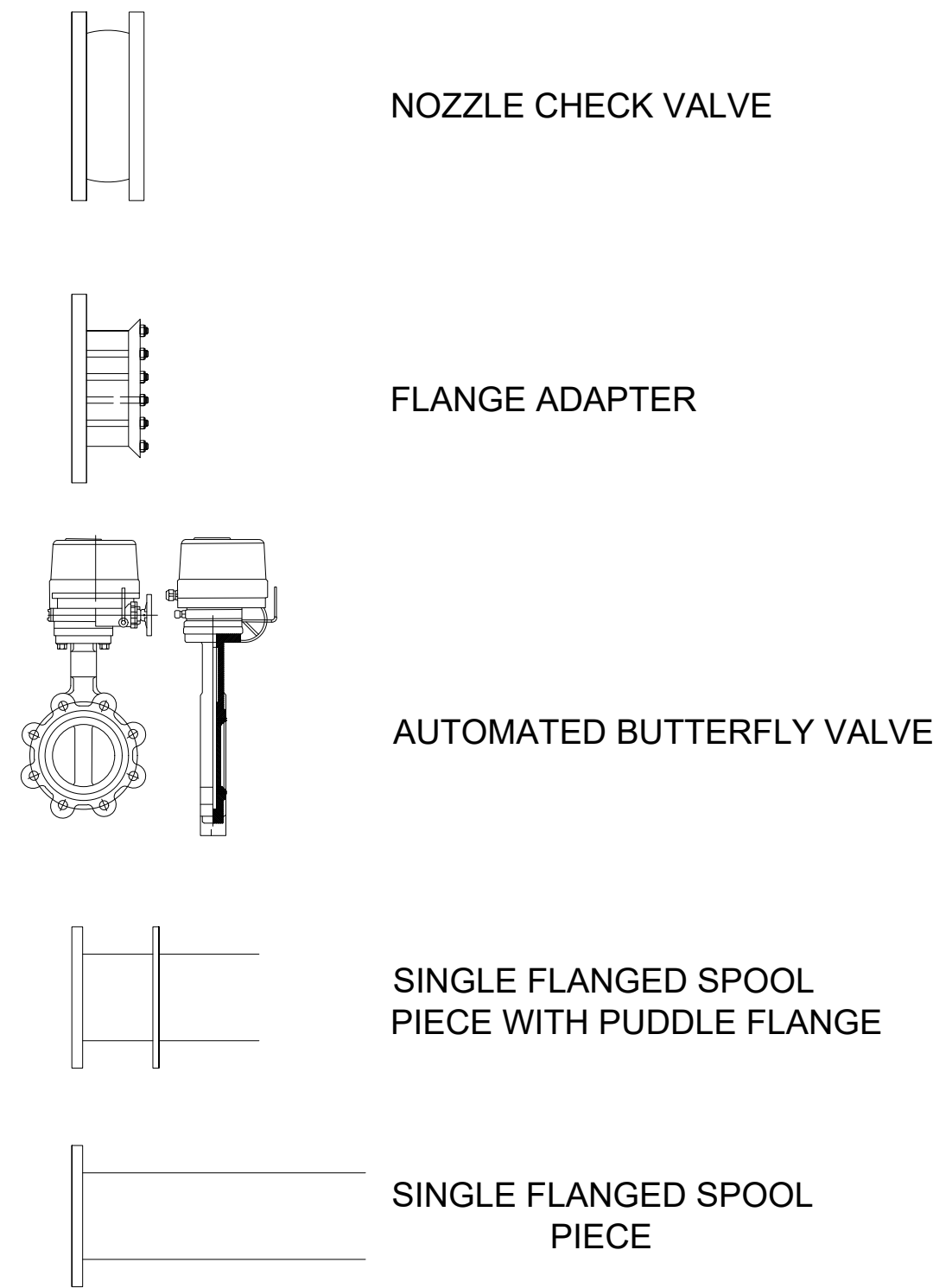
Item Number	Diagram	Description	Primary Pipe Dia. (DN)	Secondary Pipe Dia. (DN)	Material	Pipe Wall Thickness	Corrosion Protection		Flange Drilling (SANS 1123)	Quantity
							Internal	External		
SP01		PUMP DUCK FOOT (TO BE SUPPLIED WITH PUMP	100 DIA	NA	NA	NA	NA	NA	1600/3	2
SP02		200 DIA X 100 DIA FLANGED CONCENTRIC REDUCER 175mm LONG	200 DIA	100 DIA	STAINLEES STEEL	4.5 mm	SIGMALINE SF23 EPOXY	SIGMALINE SF23 EPOXY	1600/3	2
SP03		200 DIA FLANGED SPOOL PIECE 2880mm LONG	200 DIA	NA	STAINLEES STEEL	4.5 mm	SIGMALINE SF23 EPOXY	SIGMALINE SF23 EPOXY	1600/3	2
SP04		200 DIA FLANGED 90° ELBOW	200 DIA	NA	STAINLEES STEEL	4.5 mm	SIGMALINE SF23 EPOXY	SIGMALINE SF23 EPOXY	1600/3	4
SP05		200 DIA FLANGED PUDDLE PIPE 1025mm LONG (WITH ISOLATING BOLT AND GASKET SET BETWEEN SS AND MS)	200 DIA	NA	STAINLEES STEEL	4.5 mm	SIGMALINE SF23 EPOXY	SIGMALINE SF23 EPOXY	1600/3	2
SP06		200 DIA FLANGED SPOOL PIECE 700mm LONG	200 DIA	NA	WA 300	4.5 mm	FUSION BONDED EPOXY	FUSION BONDED EPOXY	1600/3	2
SP07		200 DIA FLANGED PUDDLE PIPE 1025mm LONG	200 DIA	NA	WA 300	4.5 mm	FUSION BONDED EPOXY	FUSION BONDED EPOXY	1600/3	3
SP08		200 DIA NON RETURN VALVE	200 DIA	NA	NA	NA	NA	NA	1600/3	2
SP09		200 DIA FLANGED SPOOL PIECE 500mm LONG	200 DIA	NA	WA 300	4.5 mm	FUSION BONDED EPOXY	FUSION BONDED EPOXY	1600/3	2
SP10		200 DIA RSV GATE VALVE	200 DIA	NA	NA	NA	NA	NA	1600/3	3
SP11		200 DIA FLANGED EQUAL TEE	200 DIA	NA	WA 300	4.5 mm	FUSION BONDED EPOXY	FUSION BONDED EPOXY	1600/3	1
SP12		200 DIA FLANGED SPOOL PIECE 1000mm LONG	200 DIA	NA	WA 300	4.5 mm	FUSION BONDED EPOXY	FUSION BONDED EPOXY	1600/3	1
SP13		200 DIA ELECTROMAGNETIC FLOW METER	200 DIA	NA	NA	NA	NA	NA	1600/3	1
SP14		200 DIA FLANGED SPOOL PIECE 600mm LONG	200 DIA	NA	NA	NA	NA	NA	1600/3	1
SP15		200 DIA DISMATLING COUPLING	200 DIA	NA	NA	NA	NA	NA	1600/3	1
SP16		FLANGE ADAPTOR TO SUIT PVC	200 DIA	NA	NA	NA	NA	NA	1600/3	1
SP17		FLAP NON RETURN GATE VALVE	200 DIA	NA	NA	NA	NA	NA	NA	1
SP18		250 DIA FLANGED SPOOL PIECE 600mm LONG	250 DIA	NA	NA	NA	NA	NA	1600/3	1
SP19		FLANGE ADAPTOR TO SUIT PVC	200 DIA	NA	NA	NA	NA	NA	1600/3	1



DETAIL A

SCHEDULE OF PIPE FITTINGS						
Ref	Description	Material	Dimensions			QTY
			DN	PN	F - F	
PF1	SINGLE WELD ON FLANGE		450	40		5
PF2	AUTOMATED BUTTERFLY VALVE		450	40	290	5
PF3	FLANGE ADAPTER FOR A STEEL PIPES		450	40		5

LEGEND:



PLAN VIEW

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REVISIONS

REV	DATE	DESCRIPTION	BY
0	2022-09-23	ISSUED FOR TENDER	L.M

PROJECT NAME

UPGRADE OF OLIFANTSPOOT AND EBENEZER
WATER SUPPLY SCHEME

TITLE

EBENEZER HIGH LIFT PUMP STATION
GENERAL ARRANGEMENT

PROJECT STATUS:

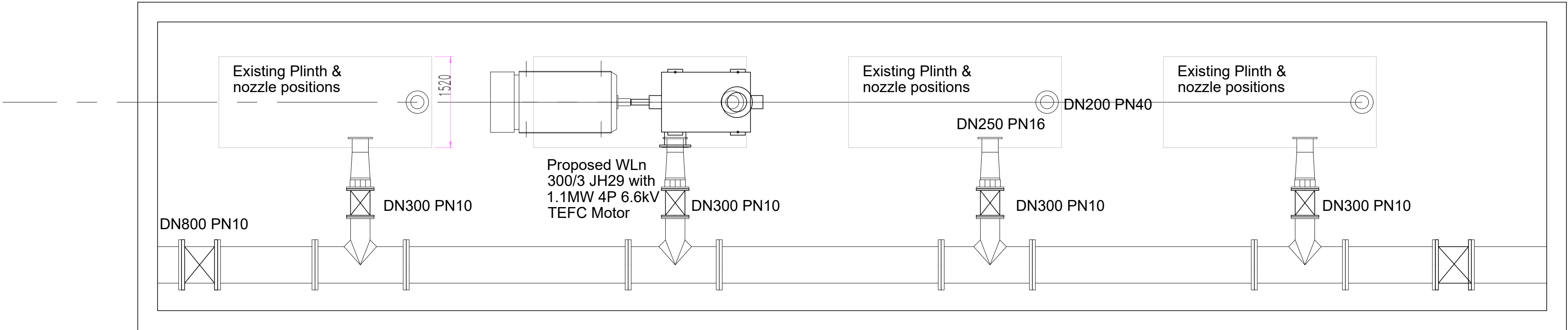
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DATE	SCALE	SHEET	REV	A1
2022-09-23	AS SHOWN	1 OF 2	0	

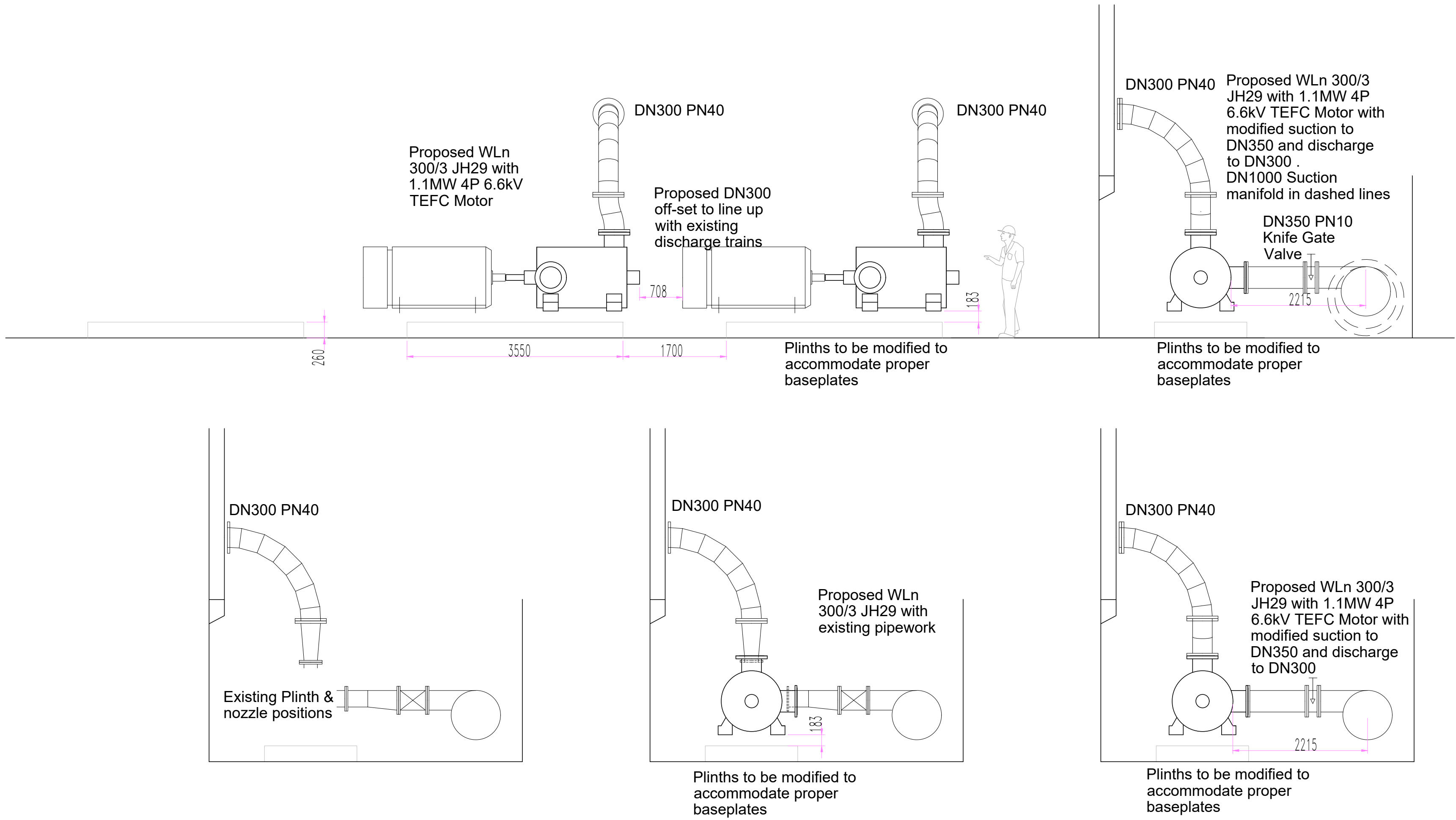
DWG NO

P1001-EB11-MEC-6101

Ebenezer Dam Pump Station



Existing Pump Plinth & Pump nozzle positions



NOT FOR CONSTRUCTION

CLIENT:



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REVISIONS				
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a	2022-09-23	ISSUED FOR TENDER	L.M	

PROJECT NAME

UPGRADE OF OLIFANTSPOORT AND EBENEZER
WATER SUPPLY SCHEME

TITLE

EBENEZER HIGH LIFT PUMP STATION
GENERAL ARRANGEMENT

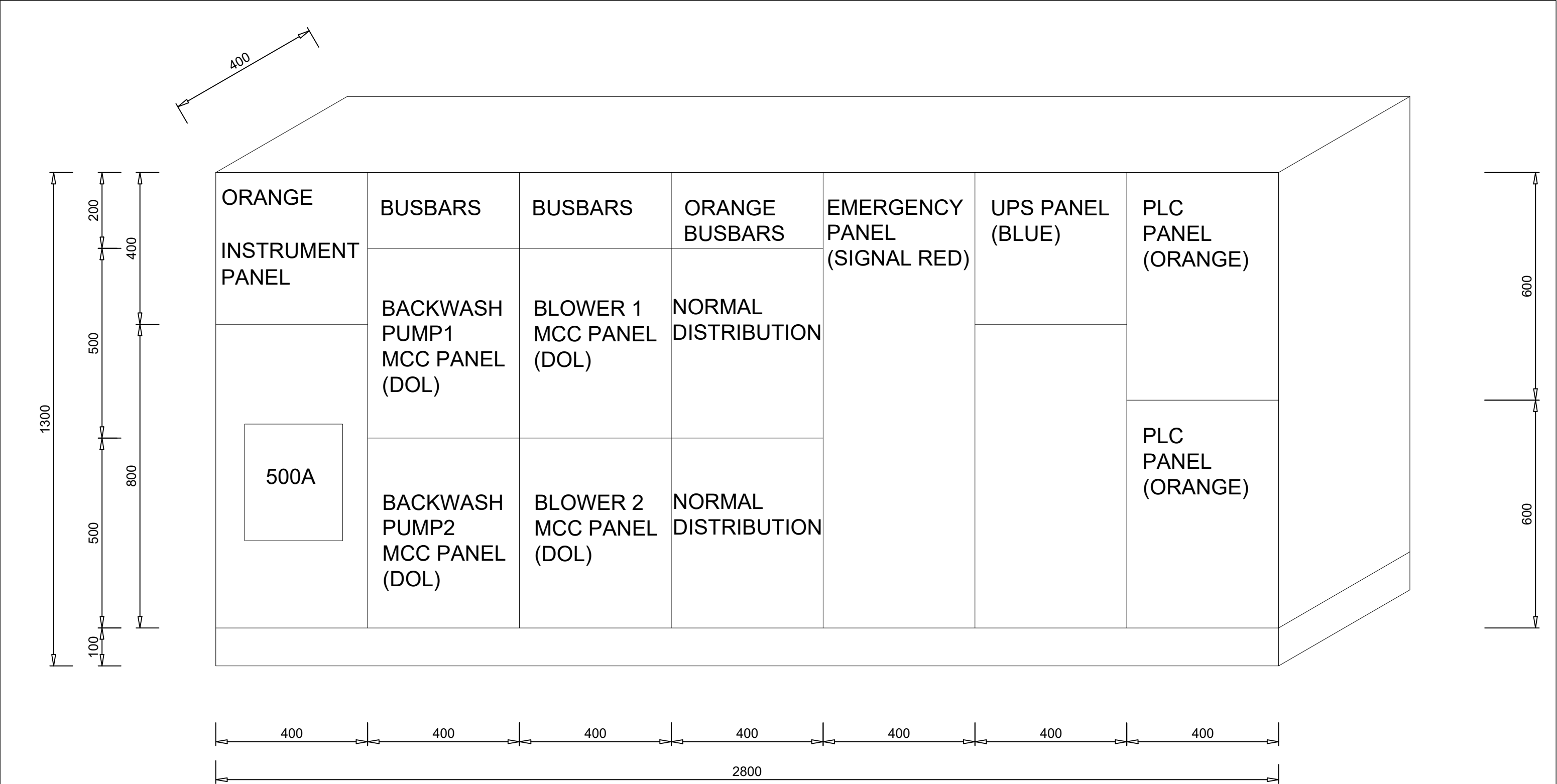
PROJECT STATUS:

TENDER DRAWING

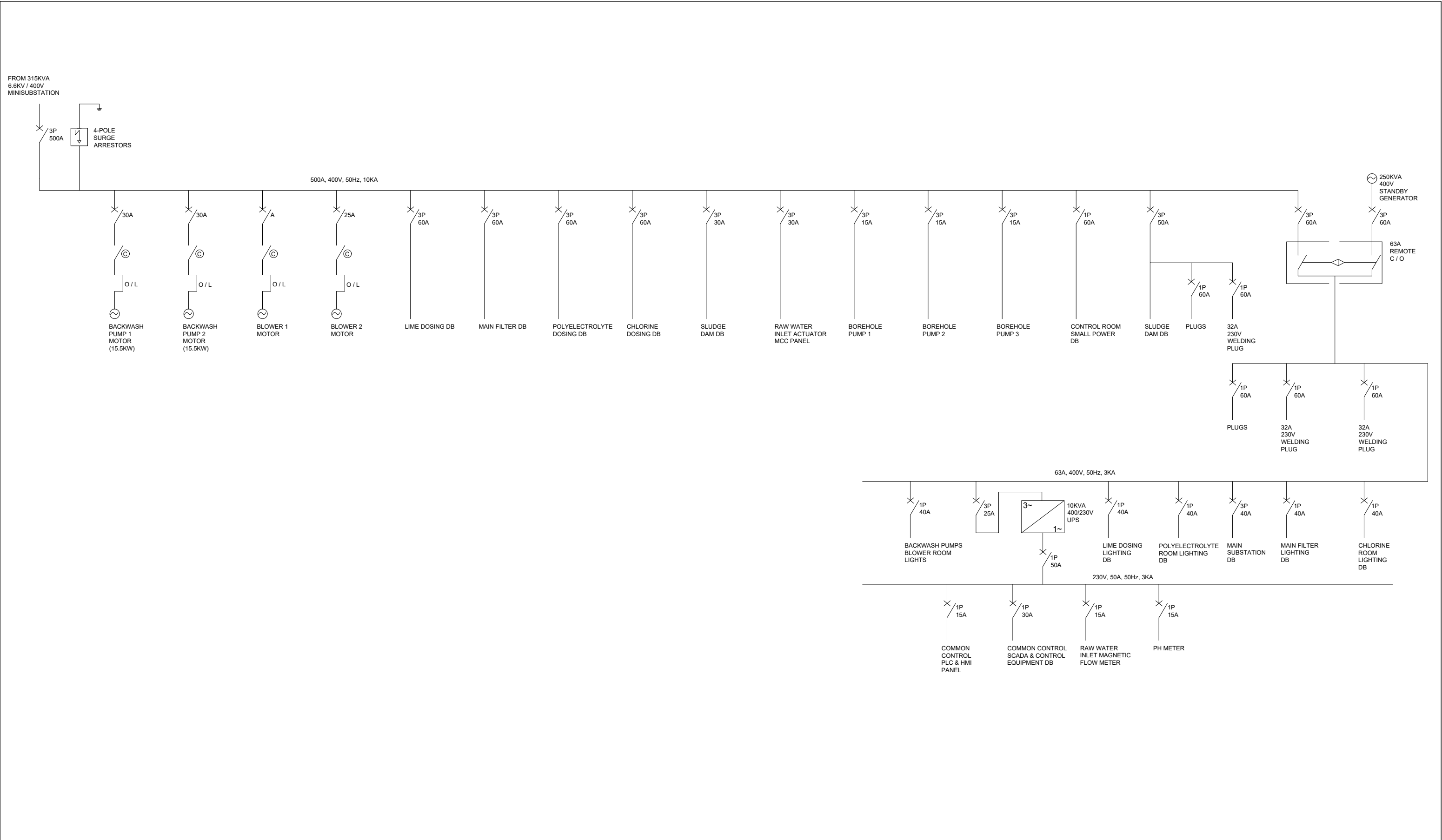
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2022-09-23	AS SHOWN	2 OF 2	a	A1

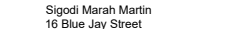
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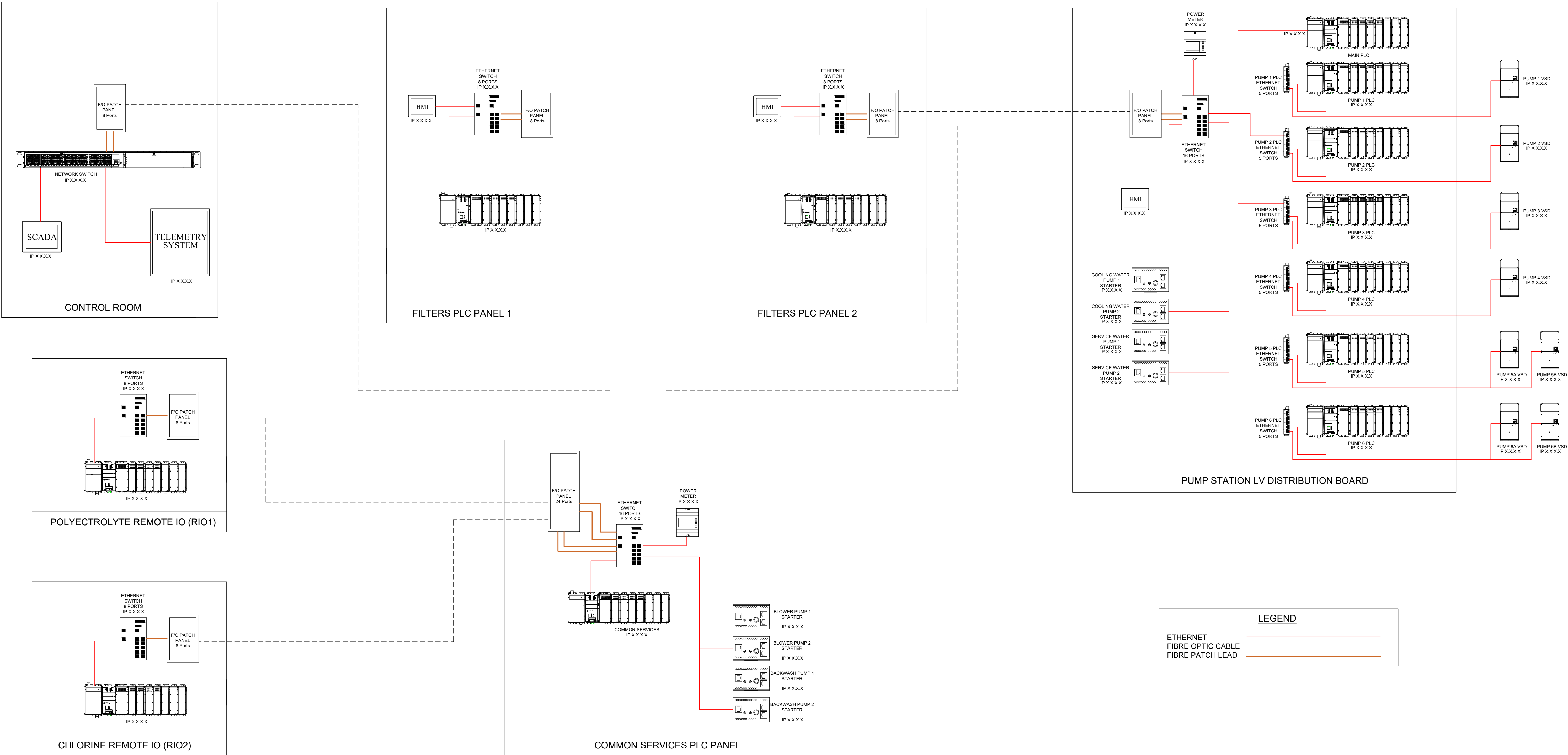
P1001-EB11-MEC-6102



FLOOR STANDING



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				REV	DATE	DESCRIPTION																													
				a	2022-09-23	ISSUED FOR TENDER																													
TITLE EBENEZER WATER WORKS - WORKS MAIN LV, UPS & EMERGENCY SWITCHBOARD & PLC PANEL SINGLE LINE DIAGRAM		DATE 2022-09-23	SCALE AS SHOWN	SHEET 2 of 2	REV a	A3																													
DWG NO P1001-EB1I-ELE-7102																																			



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REV	DATE	DESCRIPTION	BY	
0	2022-09-23	ISSUED FOR TENDER	FM	

PROJECT NAME

UPGRADE OF OLIFANTSPOORT AND EBENEZER
WATER SUPPLY SCHEME
CONTROL SYSTEM ARCHITECTURE
EBENEZER WTW & PUMP STATION

TITLE

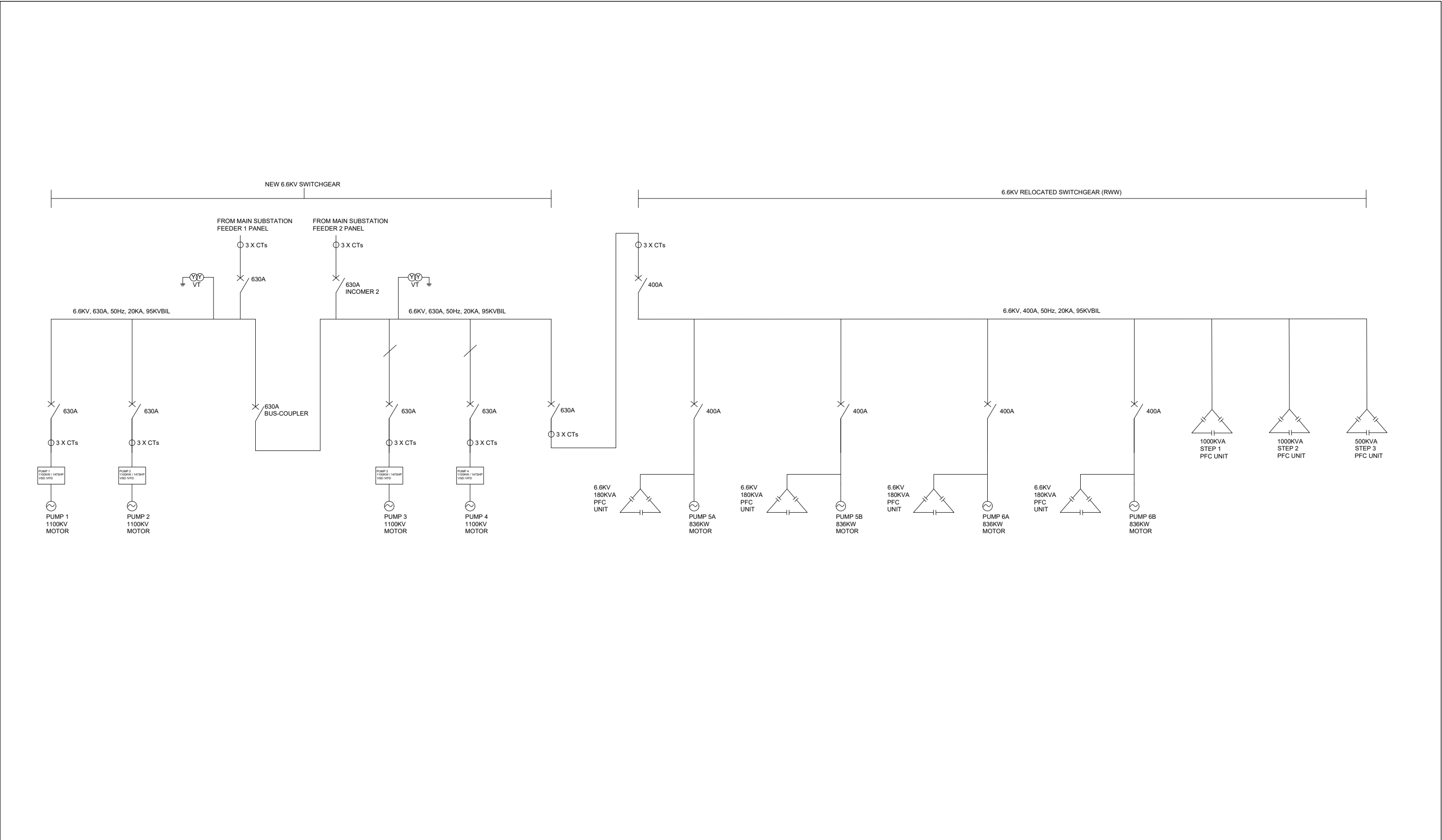
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DWG NO

P1001-EB11-ELE-7104



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				REV	DATE	DESCRIPTION	BY	DATE	SCALE	SHEET	REV	
				a	2022-09-23	ISSUED FOR TENDER	F.M	2022-09-23	AS SHOWN	1 of 1	a	A3