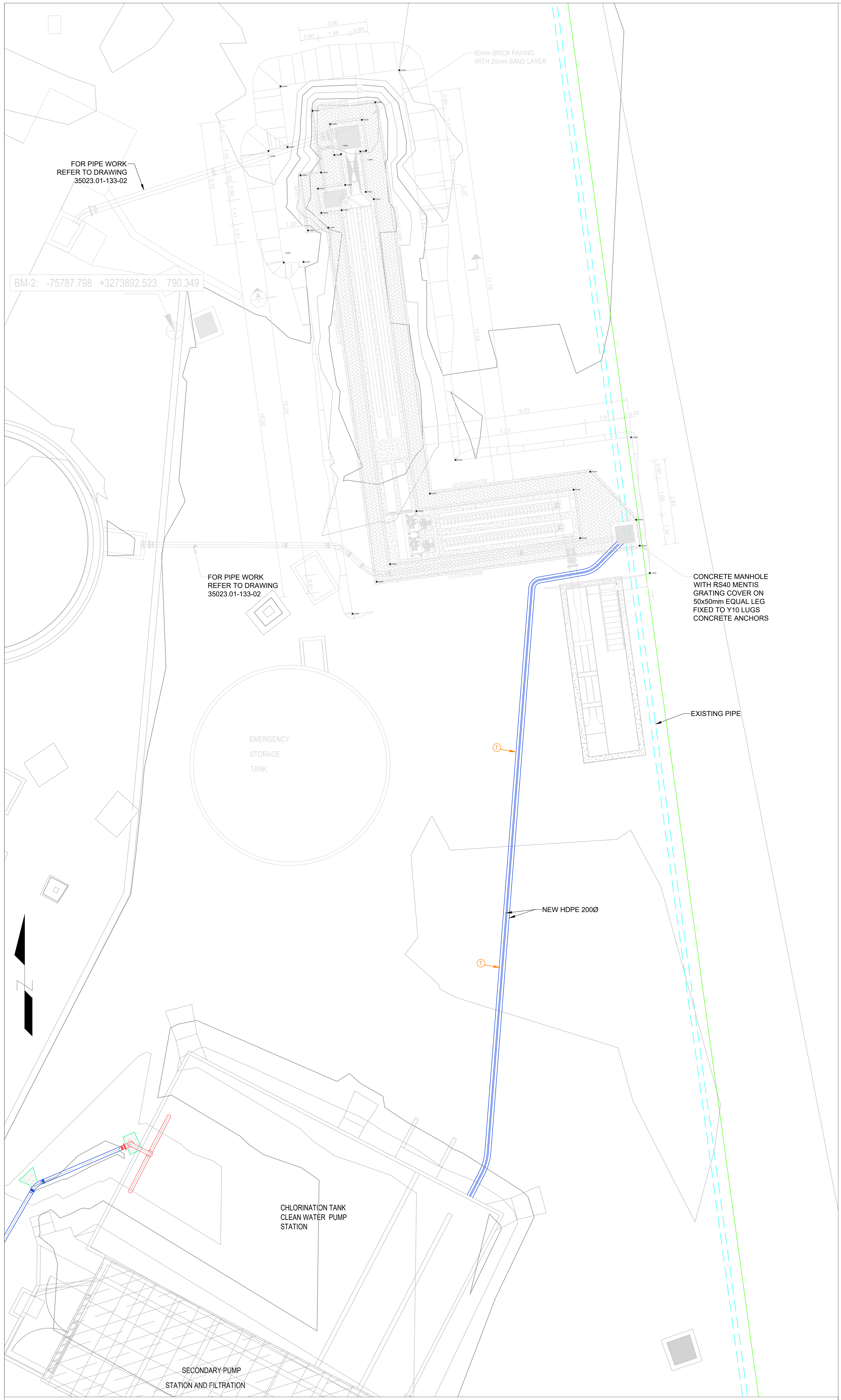
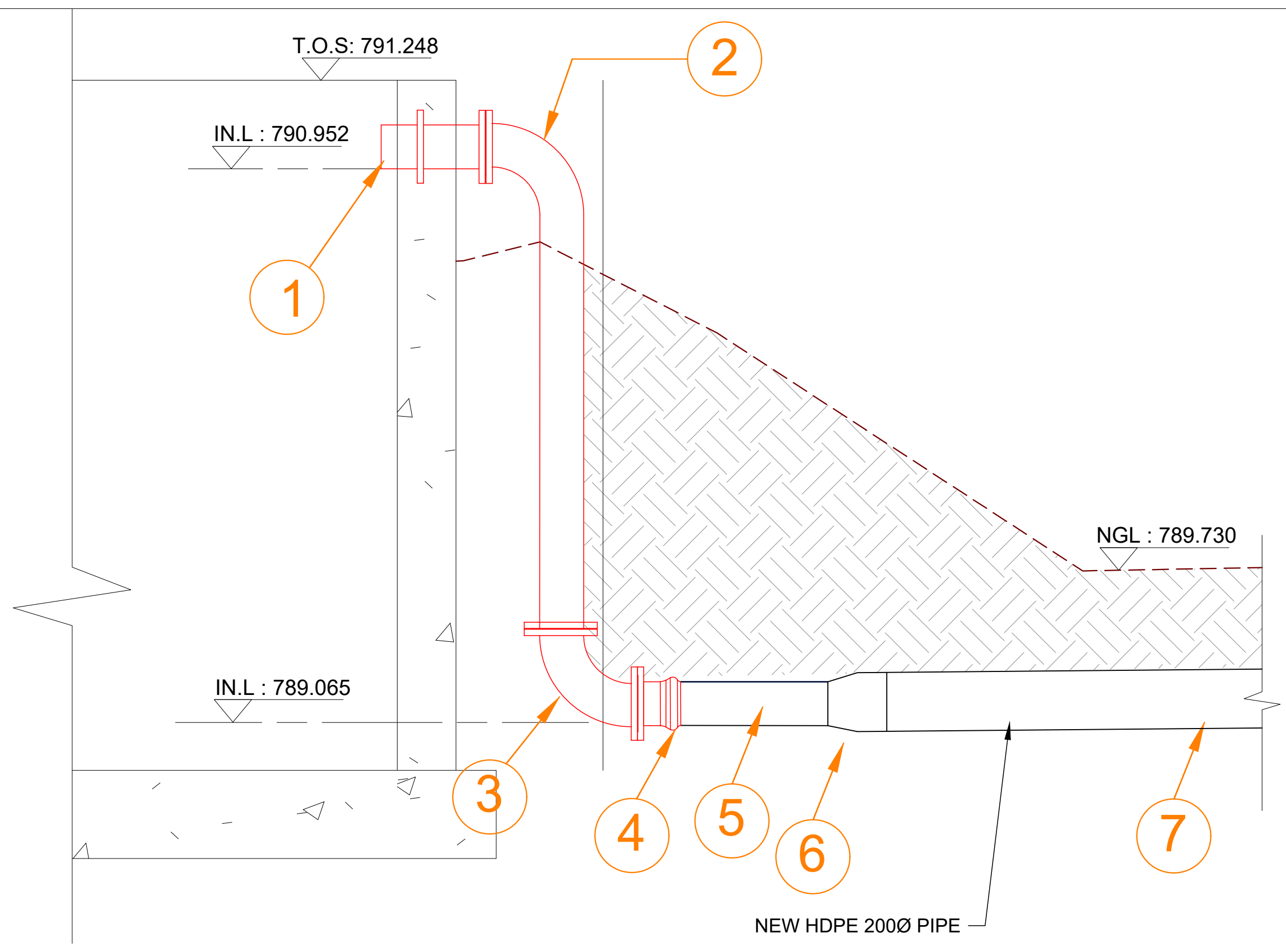
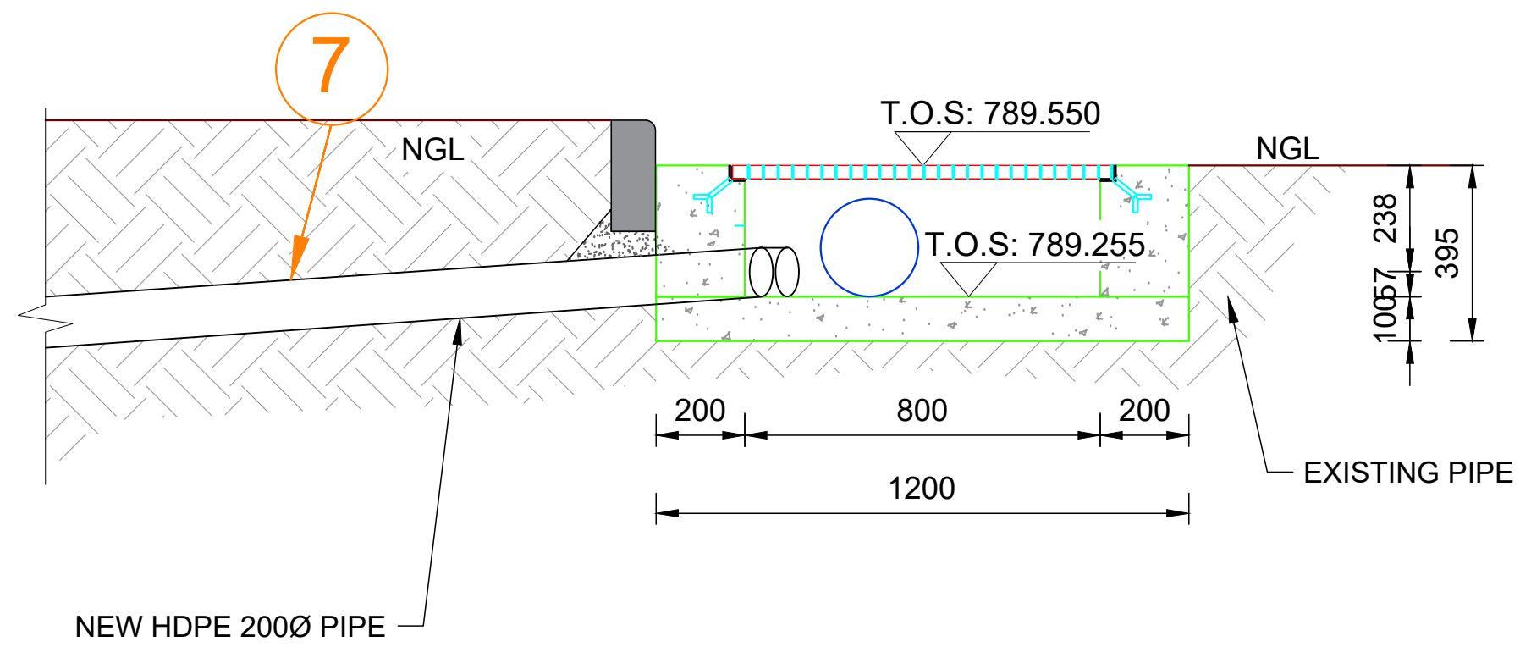


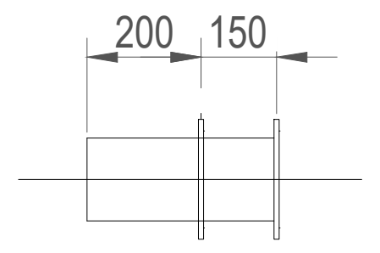
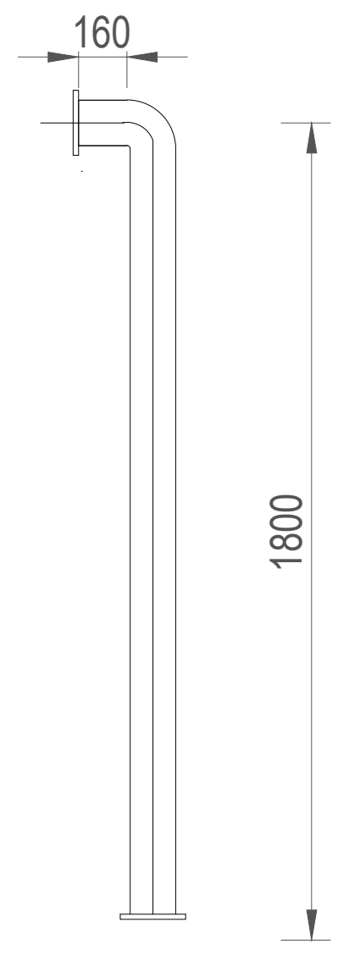
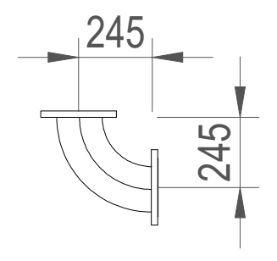
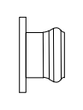
GENERAL LAYOUT

SCALE 1:80





PIPE SCHEDULE-10BAR

NO.	NO. OFF	MATERIAL	FITTING DESCRIPTION	FITTING SKETCH
1	1	EPOXY COATED	DN150 PUDDLE PIPE, FLANGED ONE END. FLANGE DRILLED TO SANS 1123 TABLE T1000/3	
2	1	HD-GALV.	DN150 HD GALVANIZED PIPE, FLANGED BOTH ENDS FLANGE DRILLED TO SANS 1123 TABLE T1000/3	
3	1	HD-GALV.	DN150 PIPE SECTION 90° BEND ,WITH PIPE SECTION FLANGED BOTH-ENDS FLANGE DRILLED TO SANS 1123 TABLE T1000/3	
4	1	CAST IRON	FLANGED ADAPTOR FLANGE DRILLED TO SANS 1123 TABLE T1000/3	
5	1	HDPE	ND150mm SDR17 PIPE FLANGED OR WELDED FLANGE DRILLED TO SANS 1123 TABLE T1000/3	
6	1	HDPE	CONCENTRIC REDUCER: DN200mm TO DN150mm FLANGED OR WELDED BOTH ENDS FLANGE DRILLED TO SANS 1123 TABLE T1000/3	
7	7	HDPE	ND200mm SDR17 PIPE FLANGED OR WELDED (6m PIPES TO BE CUT TO FIT) FLANGE DRILLED TO SANS 1123 TABLE T1000/3	

NOTES:

1. FLANGED CONNECTIONS MATING GALVANISED FLANGES TO GALVANISED FLANGES TO USE: STUDS BOLTS, SABS 1700-5-1 GR8.8, HOT DIPPED GALVANISED, THREAD TO SABS 1700-2-4 WITH HEX NUTS, NORMAL WEIGHT, SABS 700-14-1, GR8.8, HOT DIPPED GALVANISED.
2. FLANGED CONNECTIONS MATING GALVANISED FLANGES TO STAINLESS STEEL FLANGES AND STAINLESS STEEL TO STAINLESS STEEL FLANGES TO USE: SA 193 GR B8 STUDS WITH SA 194 GR 8M NUTS. NICKLESLIP TO BE APPLIED BEFORE TIGHTENING BOLTS.
3. ALL WASHERS, FLAT, NORMAL, DIN 125, MATERIAL TO MATCH NUT MATERIAL.
4. FLANGES AND PUDDLE FLANGES TO BE SABS 1123, 1000/3, UON. MATERIAL TO MATCH PIPE MATERIAL.
5. GASKETS TO BE FULL FACE TYPE, PN10, KLINGERSIL C4430 1,5mm THICK.
6. QUANTITIES T.B.D. BY CONTRACTOR.
7. ALL GALVANISING TO BE HOT DIP GALVANISING.
8. ALL GALVANISED STEEL PIPING BELOW GROUND TO BE DENSO WRAPPED.
9. ALL HDPE PIPING TO BE FUSION BUTT-WELDED.
10. 500NB FLANGES BOLT STUD LENGTHS TO BE MIN 145mm LONG.
11. 400NB FLANGES BOLT STUD LENGTHS TO BE MIN 130mm LONG.
12. 300NB FLANGES BOLT STUD LENGTHS TO BE MIN 115mm LONG.
13. 100NB FLANGES BOLT STUD LENGTHS TO BE MIN 95mm LONG.

Monday, June 01, 2026, 4:53 pm

NOTES / LEGEND

GENERAL

- * THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL MATERIALS AND WORKMANSHIP CONFORM WITH THE DETAILS AND SPECIFICATIONS SHOWN ON THIS DRAWING, AND ALL RELEVANT SABS SPECIFICATIONS, IRRESPECTIVE OF WHETHER THE ENGINEER HAS INSPECTED THE WORKS ON SITE OR NOT.
- * ALL DIMENSIONS AND LEVELS TO BE CHECKED ON SITE AND CORRELATED WITH THE ENGINEER'S DRAWINGS BEFORE CONSTRUCTION COMMENCES.
- * NO SCALING WITH SCALE RULER FROM THE DRAWING IS PERMITTED. THE CONTRACTOR MUST ENSURE THAT HE GETS THE CORRECT DIMENSIONS FROM THE ENGINEER BEFORE CONSTRUCTION COMMENCES.
- * ALL MATERIALS AND CONSTRUCTION METHODS MUST COMPLY WITH THE NATIONAL BUILDING REGULATIONS (ACT NO. 103 of 1977) INCLUDING ALL AMENDMENTS, AS WELL AS TO ALL LOCAL AUTHORITY REGULATIONS.
- * ALL MATERIALS MUST BE FINISHED AND FIXED STRICTLY IN ACCORDANCE WITH THE RELEVANT MANUFACTURERS SPECIFICATIONS, UNLESS EXPLICITLY SPECIFIED DIFFERNTLY.
- * ANY DISCREPANCIES OR UNCLEAR ITEMS MUST BE POINTED OUT TO THE ENGINEERS FOR CORRECTION OR EXPLANATION PRIOR TO COMMENCEMENT OF CONSTRUCTION.

DRAWING NOT PRINTED TO SCALE
REDUCED FROM A0 TO A3.

ISSUE DATE:	DRAWING SIZE:	REVISION:
01/06/2026	A1	0

- ☐ PRELIMINARY
- ☐ INFO ONLY
- ☒ FOR TENDER
- ☐ FOR CONSTRUCTION
- ☐ AS-BUILT

CLIENT PLAN NUMBER

LAYERS USED

FOR CONSTRUCTION

REFERENCE DRAWINGS

NUMBER	REVISION	DRAWING DESCRIPTION

APPROVED BY COUNCIL / CLIENT

CITY ENGINEER / CLIENT REG. NO. DATE

AMENDMENTS CODE

A,B,C.../ : BEFORE TENDER
T0 / : TENDER DRAWING
0,1,2..../ : AFTER TENDER
Z / : AS BUILT

/A : BY CLIENT
/B : BY ARCHITECT
/C : BY MECHANICAL OR ELECTRICAL
/D : BY BVi
/E : BY OTHER ( )

DATE	INITIAL	No./CODE	REVISION DESCRIPTION
2025/09/29	B.B	1/D	ISSUE FOR CONSTRUCTION

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BBBEE Level 1

CESA
Consulting Engineers South Africa

CLIENT

NAMA-KHOI
MUNICIPALITY

PROJECT

NABABEEP WWTW EPC

DRAWING TITLE

OVERFLOW PIPES LAYOUT, SECTIONS AND DETAILS-CHLORINE TANK

APPROVED BY BVi

ENGINEER/TECHNOLOGIST	REG. NO.	DATE
	20160772	OCT 2016

SCALE	AS SHOWN	DRAWN	J. JAFTHA
DESIGNED	W. CLOETE	CHECKED	W. CLOETE

PLAN NUMBER	REVISION NO.	DATE SAVED
35023.01-133-02	T0	01/06/2026

35023.01-133-02revT0-Overflow Pipes Layout, Sections and Details-Chlorine Tank Phase 02.dwg

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