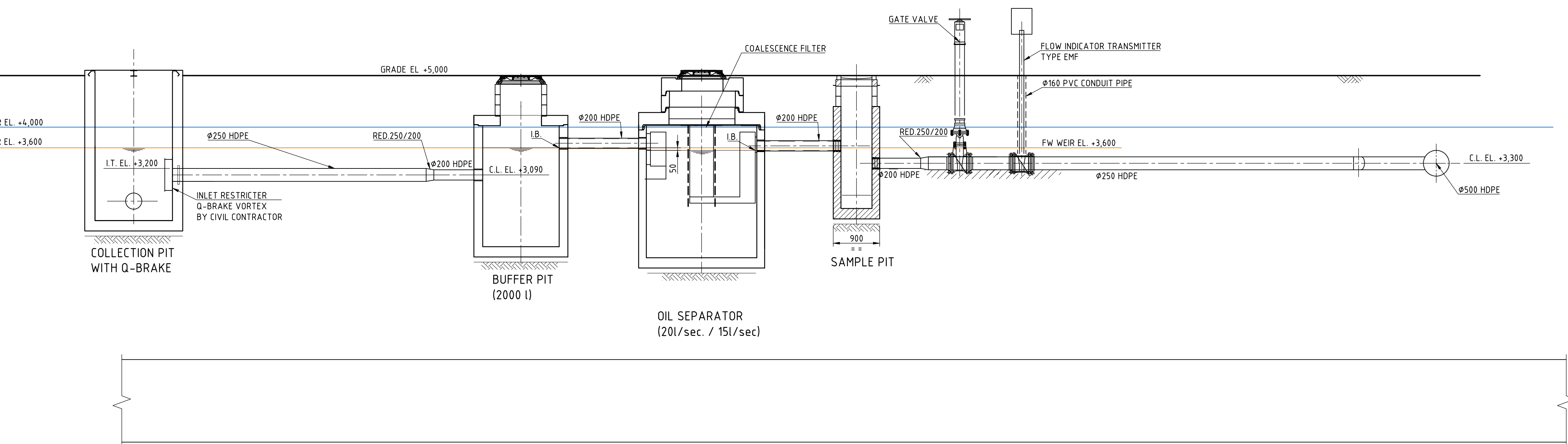
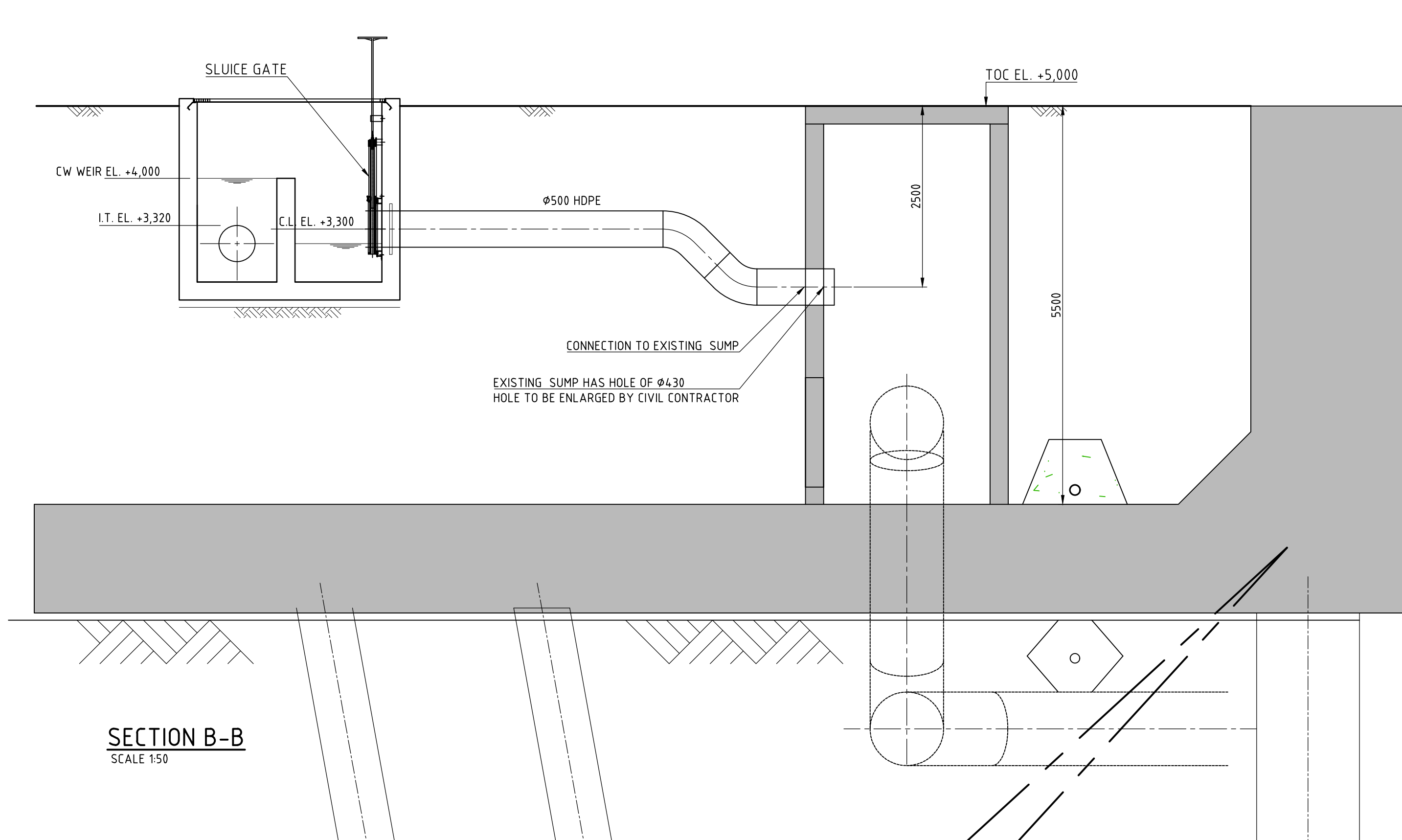


TYPICAL PLAN DISCHARGE SEWER / OBAS-2
SCALE 1:50

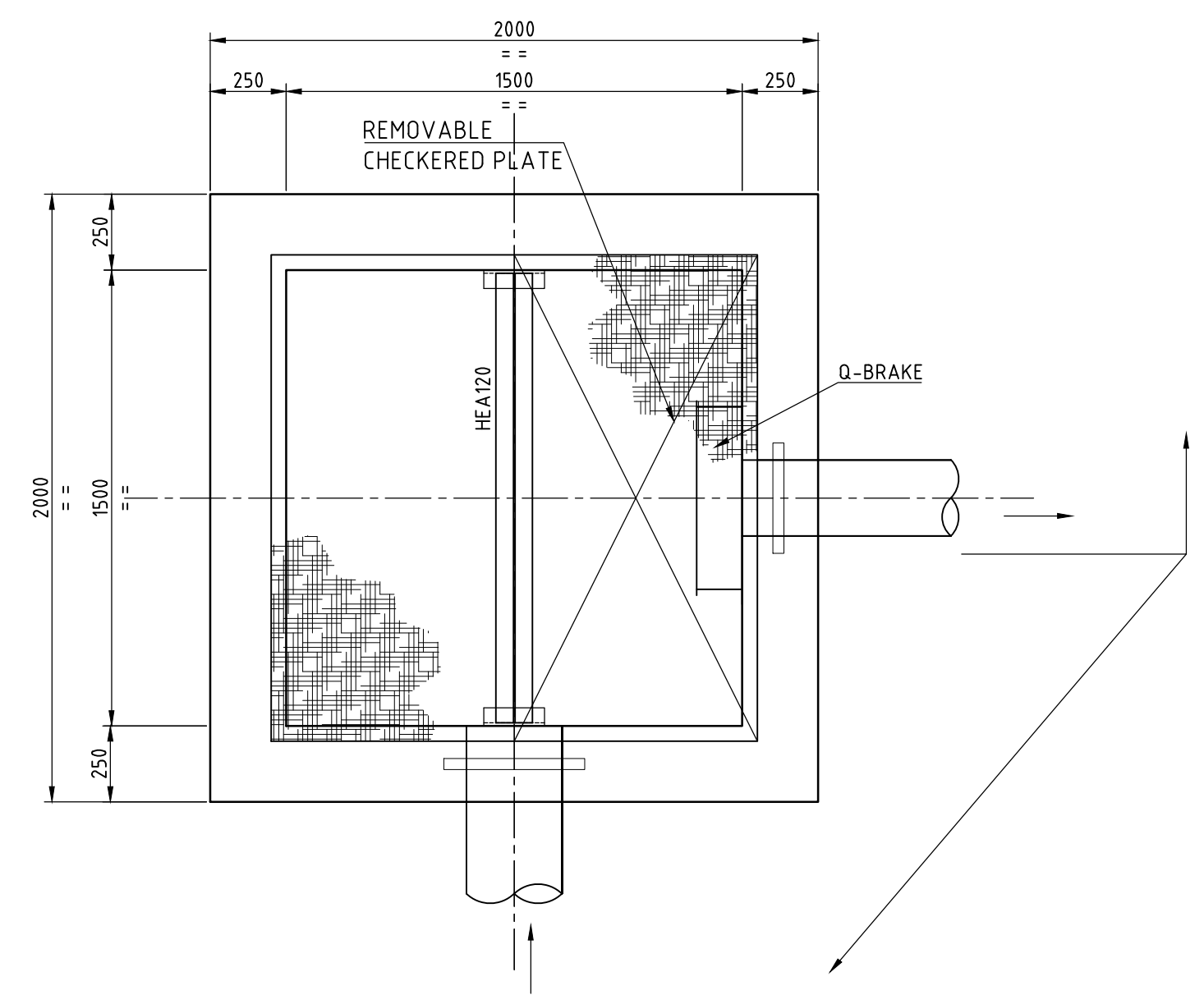
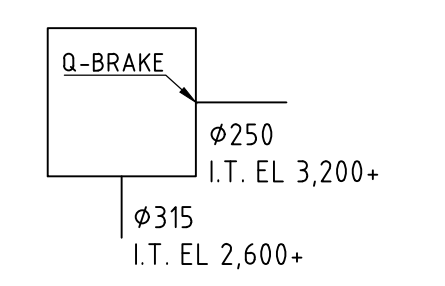


SECTION A-A
SCALE 1:50

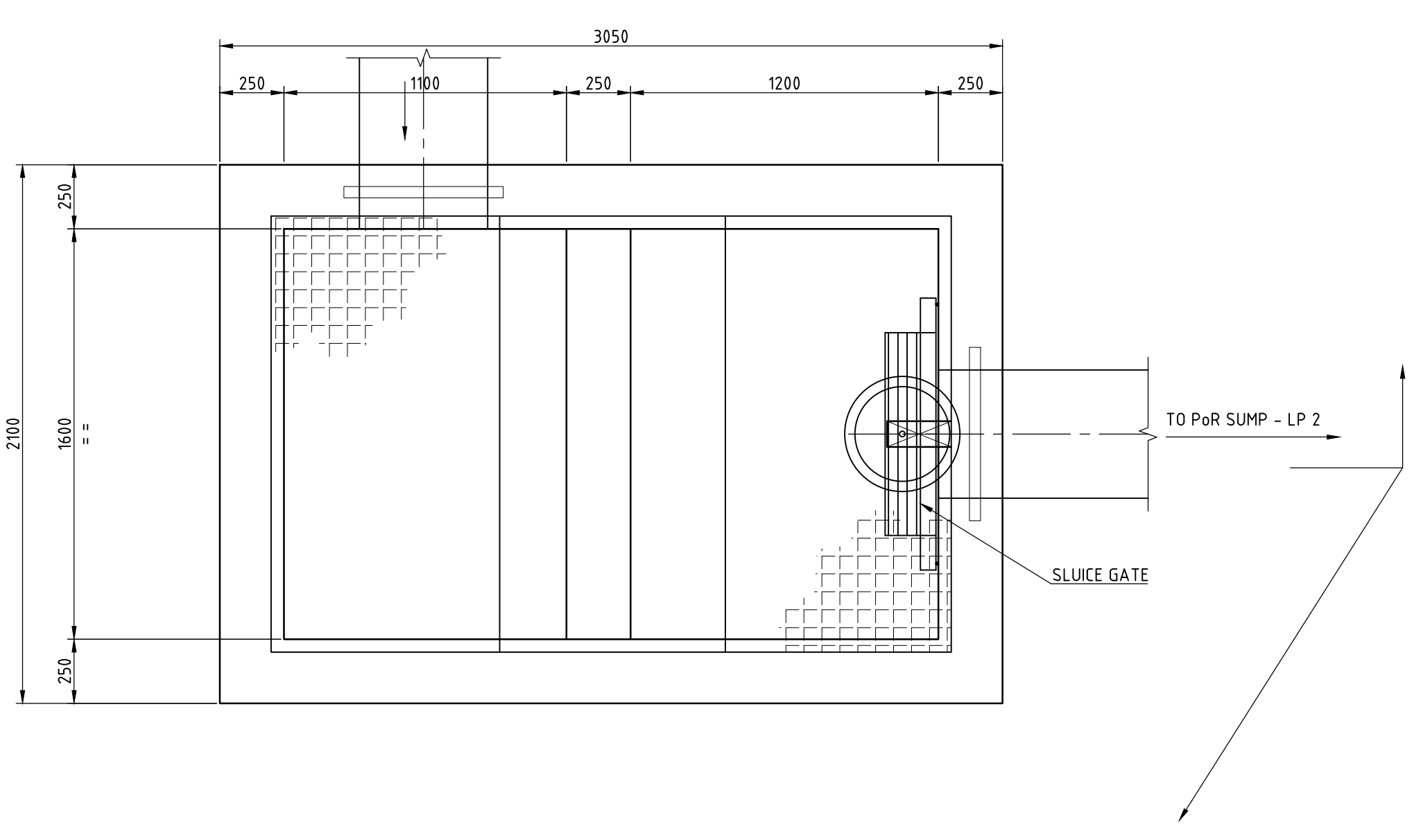


SECTION B-B
SCALE 1:50

TO OBAS 2
Q-BRAKE COLLECTION PIT SCHEDULE

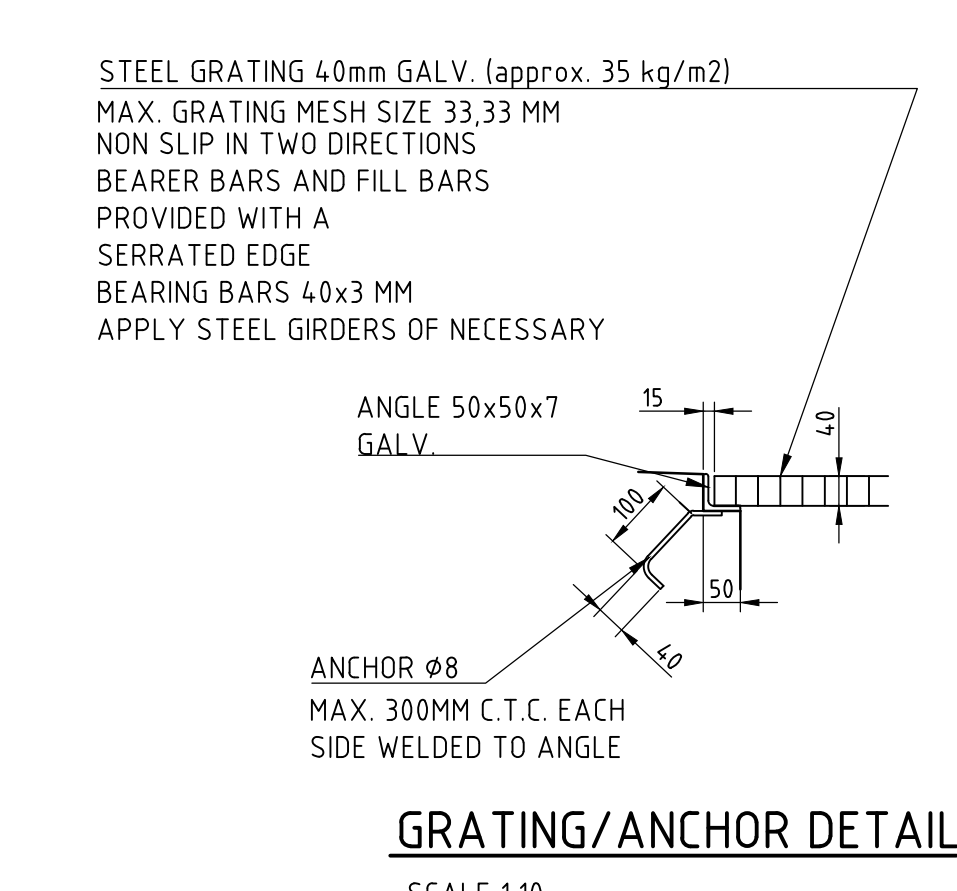
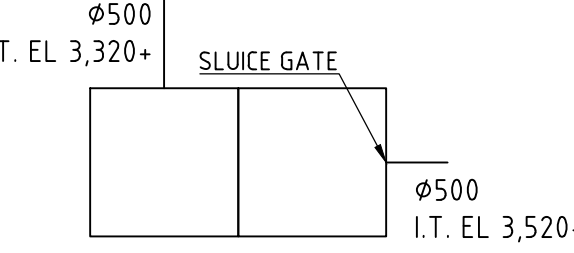


Q-BRAKE COLLECTION PIT
SCALE 1:20

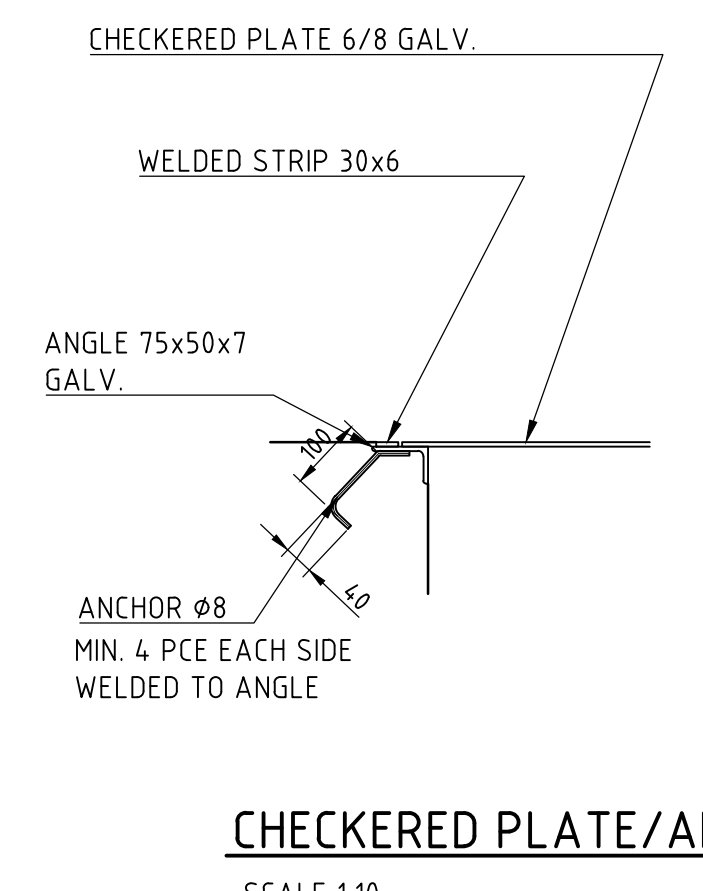


OVERFLOW PIT
SCALE 1:20

TO LP 2
OVERFLOW PIT SCHEDULE

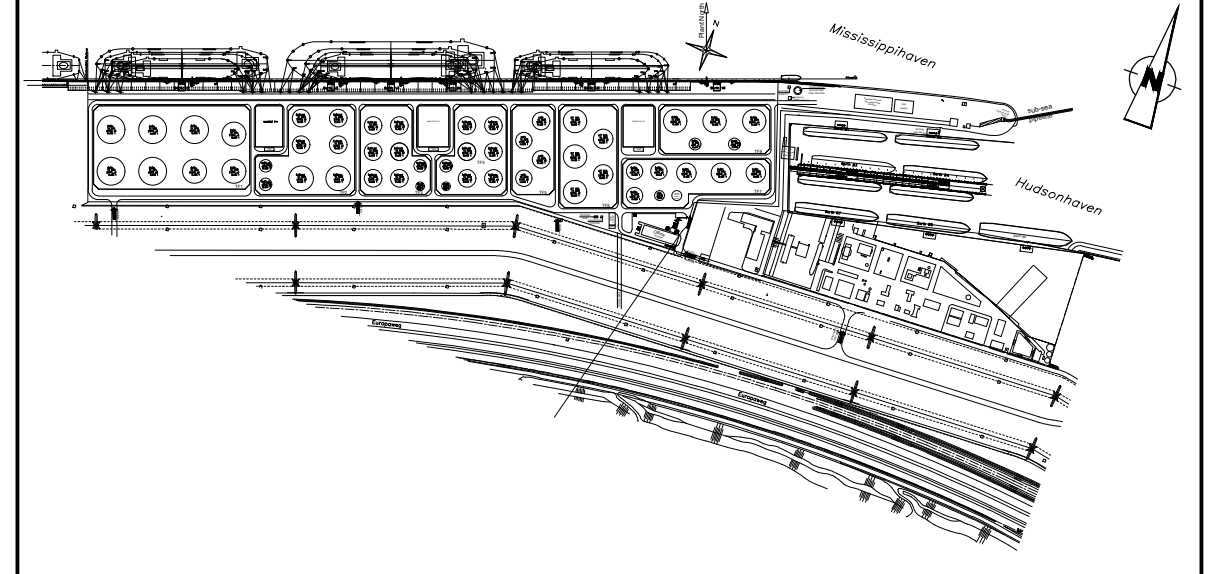


GRATING/ANCHOR DETAIL
SCALE 1:10



CHECKERED PLATE/ANCHOR DETAIL
SCALE 1:10

KEY-PLAN



GENERAL NOTES

- ALL DIMENSIONS IN MM
 - ELEVATION IN M ACC. TO N.A.P.
 - I.B.I. INTERIM BOTTOM ELEVATION IN M ACC. TO N.A.P.
 - I.T.I. INTERIM TOP ELEVATION IN M ACC. TO N.A.P.
 - FOR COATING AND PAINTING STANDPPE / INDICATOR SEE PAINTING SPECIFICATION
 - LP CLEAN WATER DISCHARGE POINT (LOADINGPUNT)
- CONCRETE
- CONCRETE ACCORDING TO NEN-EN 206-1, NEN 8095, NEN-EN 1992-1-1
 - DELIVERY OF CONCRETE WITH HARD CERTIFICATE
 - REINFORCEMENT ACCORDING TO NEN-EN 10080, NEN 6008
 - DELIVERY OF REINFORCEMENT WITH HARD CERTIFICATE (ACC. TO BR-9501)
- CONCRETE EXECUTION CLASS
- EXECUTION CLASS 3 IN ACCORDANCE WITH NEN-EN 19670
- CONCRETE SPECIFICATION
- CONCRETE STRENGTH CLASS: C30/37
 - CONCRETE EXPOSURE CLASSES: XC3, XF1, XD2, XA2, XF1
 - STEEL REINFORCEMENT: S500B
 - CONCRETE COVER: 50MM
 - CHLORIDE CLASS: CL 0.20
 - CONSISTENCY CLASS: BY CONTRACTOR
 - SLAG CEMENT: CEM III/B 42.5N (H SR HEAT OF HYDRATION 4245 KJ/KG)
 - MAX. AGGREGATE SIZE: D_{max} = 37.5 MM
 - MAX. CONCRETE TEMPERATURE: 45°C (FIELD CONCRETE CORE TEMPERATURE PEAK DURING HARDENING)
 - MAX. INTERNAL TEMP. GRADIENT: 15°C BETWEEN CONCRETE CORE AND SURFACE LAYER, CURING CLASS 3 IN ACCORDANCE WITH NEN-EN 19670, TABLE F.2

ANCHORAGE AND LAP LENGTH

ANCHOR AND LAP LENGTH	Ø8	Ø10	Ø12	Ø16	Ø20	Ø25	Ø32
ANCHORAGE LENGTH L _a	200	260	320	580	720	900	1100
LAP LENGTH L _l	400	500	600	1000	1200	1500	1900

ANCHORAGE AND LAP LENGTH WILL BE MULTIPLIED WITH 1.4 FOR BARS WITH POOR BOND CONDITIONS

LAPS SHALL BE STAGGERED WITH A MAXIMUM OF 50% LAPS BETWEEN 1.5x LAP LENGTH ACCORDING TO THE CENTER OF A LAP LENGTH TO BE MULTIPLIED BY 1.1 IF NOT STAGGERED

LAPS SHALL NOT BE PLACED IN THE "x" AREAS

REFERENCE DRAWINGS

- HHTT-KH-09351 UNDERGROUND CLEAN WATER SEWER LAYOUT PART 1
- HHTT-KH-09352 UNDERGROUND CLEAN WATER SEWER LAYOUT PART 2
- HHTT-KH-09353 UNDERGROUND CLEAN WATER SEWER LAYOUT PART 3
- HHTT-KH-09354 UNDERGROUND CLEAN WATER SEWER LAYOUT PART 4
- HHTT-KH-09361 UNDERGROUND FOUL WATER SEWER LAYOUT PART 1
- HHTT-KH-09362 UNDERGROUND FOUL WATER SEWER LAYOUT PART 2
- HHTT-KH-09363 UNDERGROUND FOUL WATER SEWER LAYOUT PART 3
- HHTT-KH-09364 UNDERGROUND FOUL WATER SEWER LAYOUT PART 4
- HHTT-KH-09315 UNDERGROUND INFRASTRUCTURE SEWER DETAILS 1 - OBAS 1
- HHTT-KH-09319 UNDERGROUND INFRASTRUCTURE SEWER DETAILS 1 - OBAS 3

FOR DETAIL DESIGN

KH Engineering 67620-D-1416-1100-318

HES
Released for Detail Design
16 October 2019
HHTT Document Control

REV.	DATE	DESCRIPTION	BYS	RW	APP'D
0	16-10-2019	FOR DETAIL DESIGN			

CLIENT: HES Hertel Tank Terminal B.V.
PROJECT: HHTT
TITLE: UNDERGROUND INFRASTRUCTURE SEWER DETAILS 3 - OBAS-2
DRAWING No: HHTT-KH-016318
SCALE: A0+
SHEET: 1/1
REV: 0