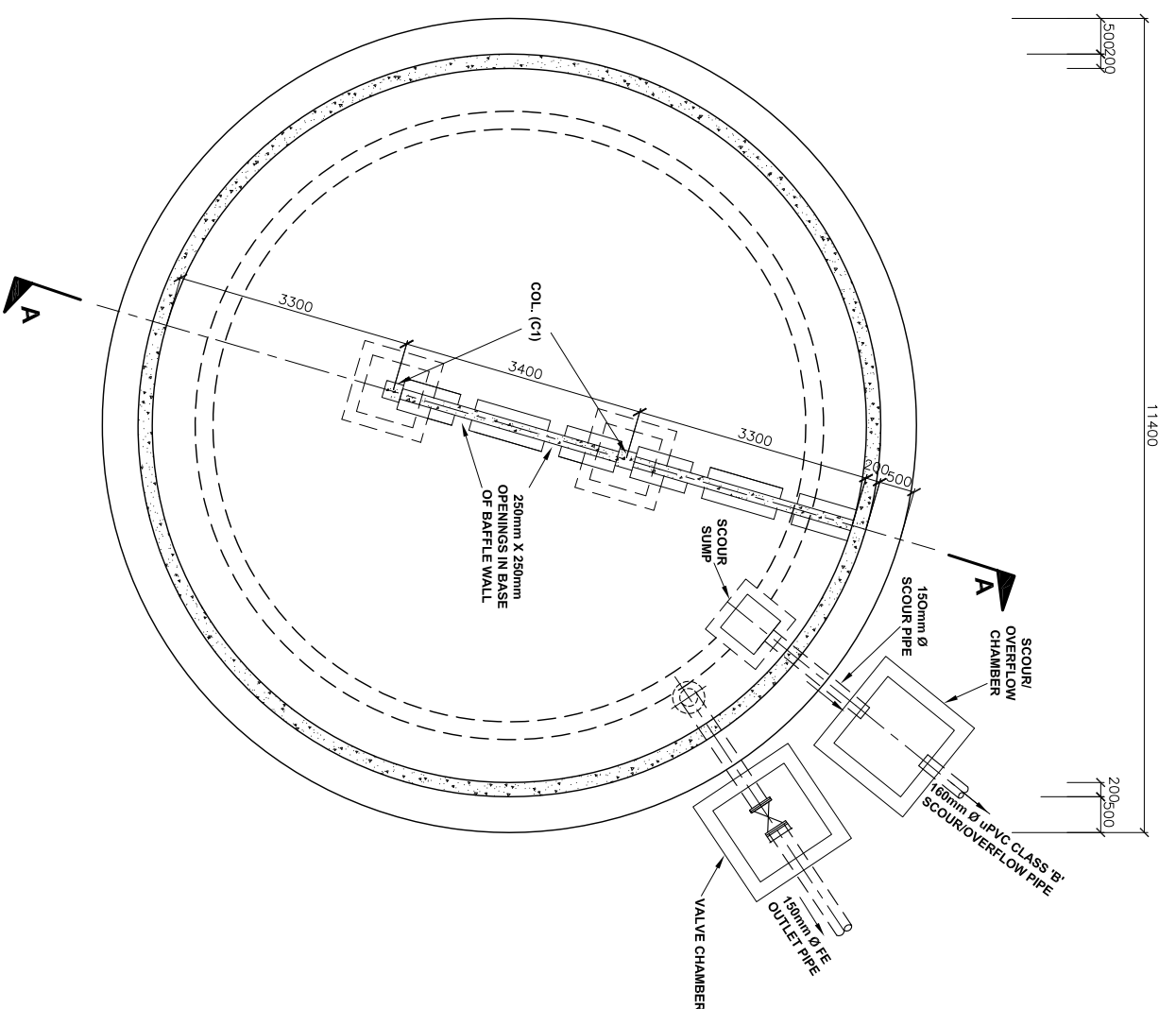


PLAN AT ROOF LEVEL



BASE SLAB PLAN

TYPICAL ROOF AND BASE PLANS OF PROPOSED GROUND MASONRY TANKS (250m³ CAPACITY)

NOTES

- LAYOUT PLAN OF THE TANK IS TO BE ADJUSTED ON SITE TO SUIT LOCATIONS OF INLET, OUTLET, SCOUR / OVERFLOWS PIPE WORKS
- SAFE GROUND BEARING PRESSURE HAS BEEN ASSUMED AT 180kN/m² (34 TONS/FT²) AT A DEPTH OF 0.75m BELOW FINISHING GROUND LEVEL. IF REQUISITE BEARING STRATA IS NOT OBTAINED AT THIS LEVEL, THE WORKMEN TO MAINTAINED IS TO BE EXCAVATED DOWN TO APPROVED BOTTOM AND THE LEVEL MADE UP IN CLASS 10 MASS CONCRETE.
- CONCRETE MIXES, BUNDING CONCRETE TO UNDERSIDE OF TANK TO BE MINIMUM 75mm THICK IN CLASS 19/20 NOMINAL MIX FLOOR, COLUMNS, ROOF SLAB AND BEAMS, CONCRETE TO BE NOMINAL CLASS 25/20
- WHEN CONSTRUCTING THE SUMPS, NO BACK FILLING IS TO BE ALLOWED OUTSIDE THE WALLS OF SUMP. THE SAME RESTRICTION APPLIES TO ANY PIPES RUNNING BELOW THE FLOOR. THE TRENCHES IN WHICH THESE PIPES ARE LAID MUST BE FILLED BACK WITH MASS CONCRETE CLASS 15
- ROOF SLAB TO BE CAST SLOPING OUTSIDE AS DETAILED.
- ALL DIMENSIONS IN mm UNLESS SPECIFIED.

REV	REVISIONS	DATE	APPROVED
BR	CHECKED		
BR	CHECKED		
BR	CHECKED		

CLIENT:



EWASO NGIRO SOUTH RIVER
BASIN DEVELOPMENT
AUTHORITY

PROJECT TITLE:
IMPROVEMENT OF WATER SUPPLY
FOR ENSDA TANNERY
EWASO NGIRO

DRAWING TITLE:

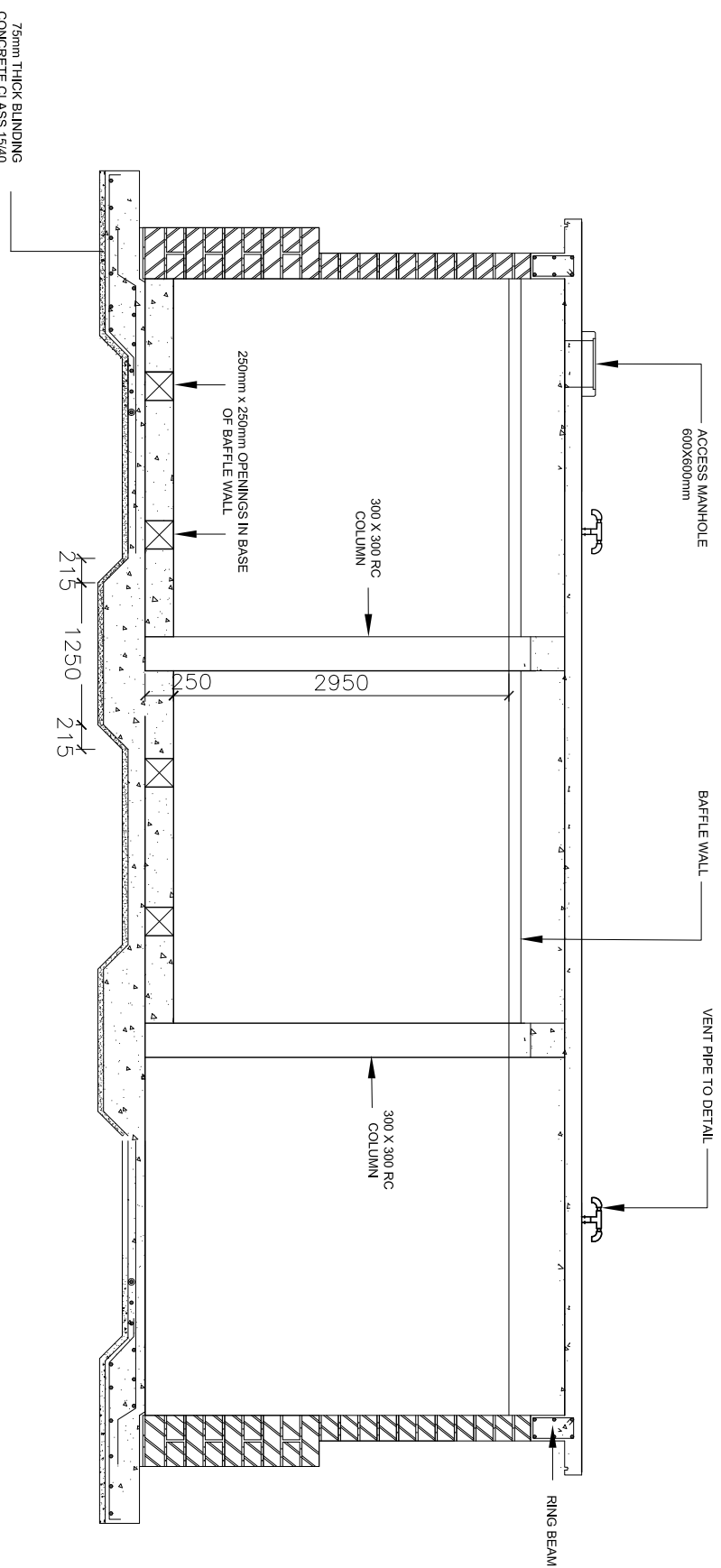
DETAILS OF 225m³ MASONRY
GROUND TANK
TYPICAL LAYOUT PLAN
SHEET 1 OF 4

Designed by: EO Drawn by: EO

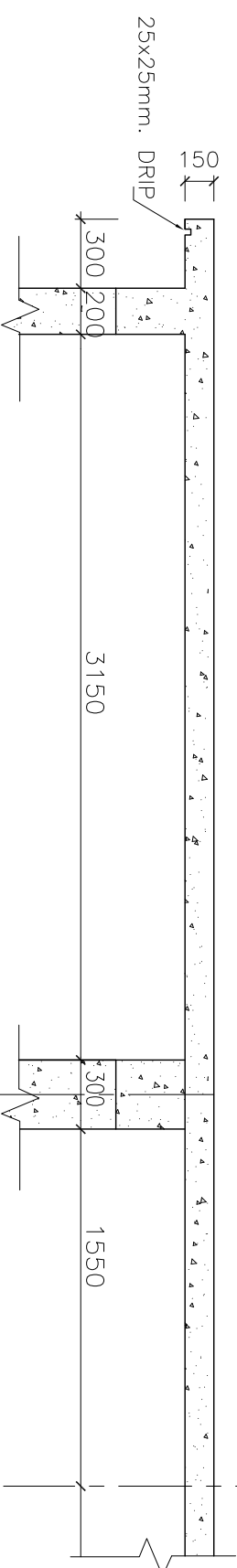
Checked by: RO Approved by: RO

Scale: 1:100 Date: FEB. 2018

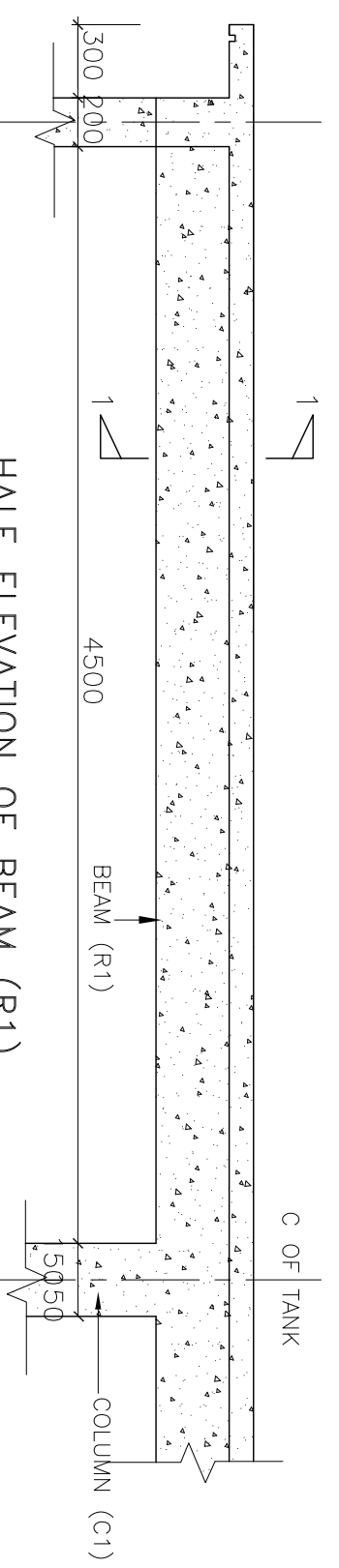
DRG No. ENSDAMS/GT01



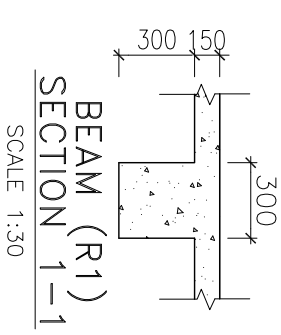
SECTION THROUGH THE TANK (SECTION A-A)
SCALE 1:60



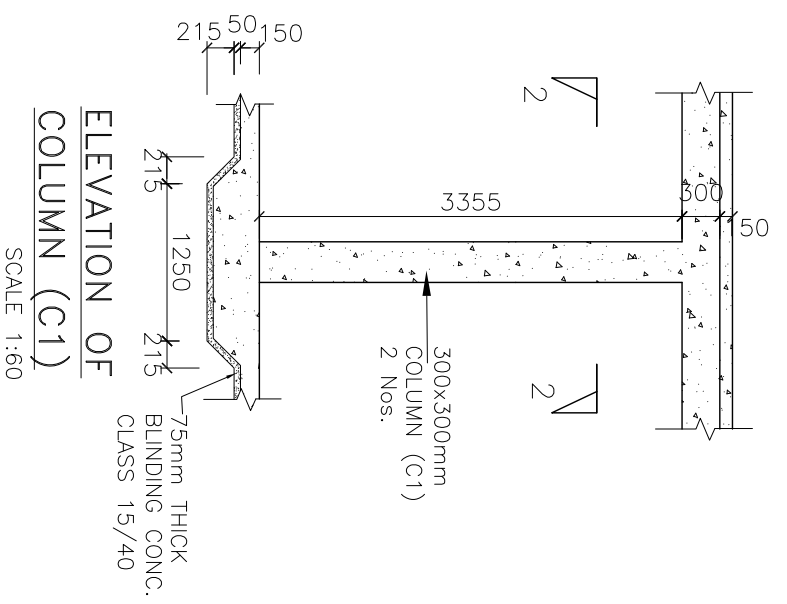
HALF SECTION THROUGH ROOF SLAB
SCALE 1:30



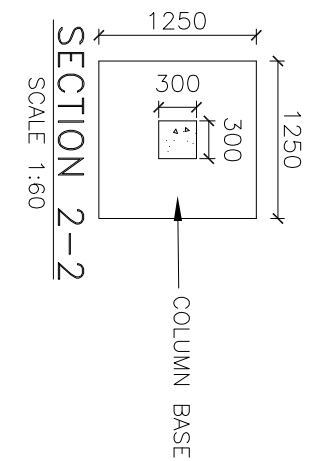
HALF ELEVATION OF BEAM (R1)
2 Nos.
SCALE 1:30



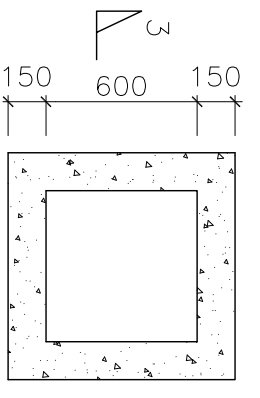
BEAM (R1)
SECTION 1-1
SCALE 1:30



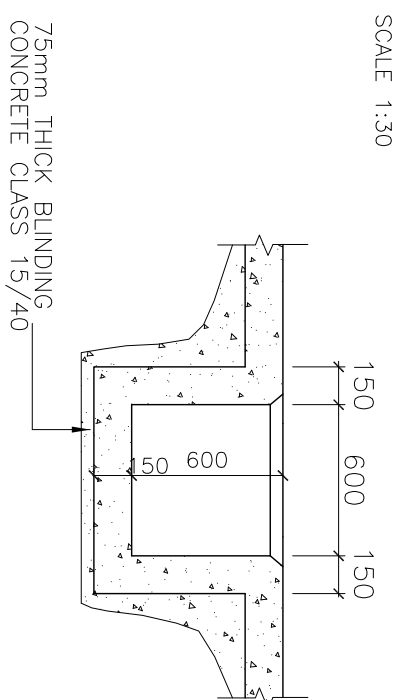
ELEVATION OF COLUMN (C1)
SCALE 1:60



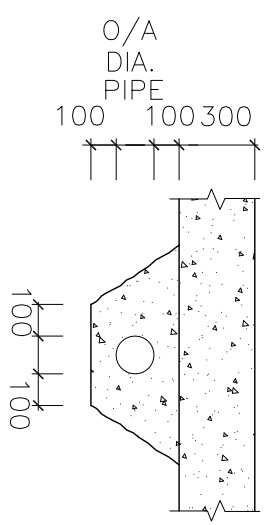
SECTION 2-2
SCALE 1:60



PLAN OF SCOUR SUMP
SCALE 1:30



SECTION 3-3
SCALE 1:30



SECTION 5-5
SCALE 1:30

NOTES

- SAFE GROUND BEARING PRESSURE HAS BEEN ASSUMED AT 80kN/m² (9/4 TONS/FT²) AT A DEPTH OF 0.75m BELOW EXISTING GROUND LEVEL. IF REQUIRED THE BEARING STRATA IS NOT OBTAINED AT THIS LEVEL, THE WEAKER MATERIAL IS TO BE EXCAVATED DOWN TO APPROVED BOTTOM AND THE LEVEL MADE UP IN CLASS 10 MASS CONCRETE.
- CONCRETE MIXES, BLINDING CONCRETE TO UNDERSIDE OF TANK TO BE MINIMUM 75mm THICK IN CLASS 19/20 NOMINAL MIX CONCRETE TO BE NOMINAL CLASS 25/20 FLOOR, COLUMNS, ROOF SLAB AND BEAMS.
- WHEN CONSTRUCTING THE SUMPS, NO BACK FILLING IS TO BE ALLOWED OUTSIDE THE WALLS OF SUMP. THE SAME RESTRICTION APPLIES TO ANY PIPES RUNNING BELOW THE FLOOR. THE TRENCHES IN WHICH THESE PIPES ARE LAID MUST BE FILLED BACK WITH MASS CONCRETE CLASS 15.
- ROOF SLAB TO BE CAST SLOPING OUTSIDE AS DETAILED.
- ALL DIMENSIONS IN mm UNLESS SPECIFIED.

REV	REVISIONS	BY	DATE	APPROVED

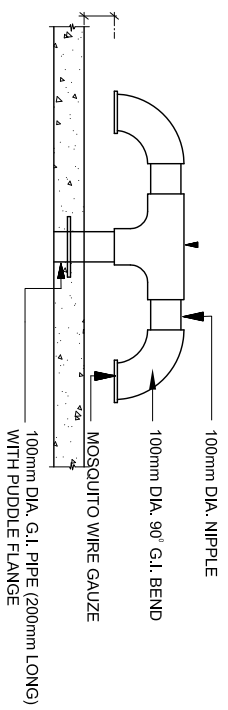
CLIENT:
ENSDA
Ewaso Ngiro South River
Basin Development
Authority

PROJECT TITLE:
IMPROVEMENT OF WATER SUPPLY
FOR ENSDA TANNERY
Ewaso Ngiro

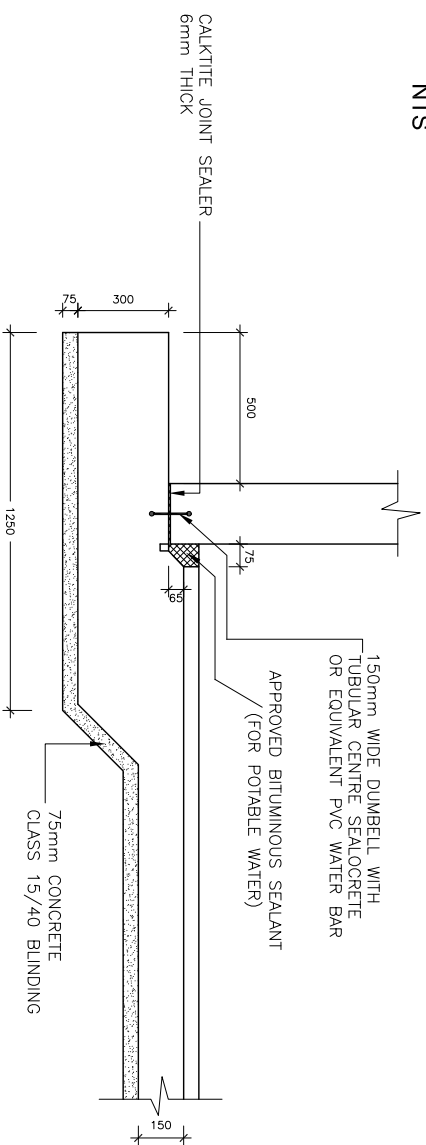
DRAWING TITLE:
DETAILS OF 225m² MASONRY
GROUND TANK

SHEET 2 OF 4

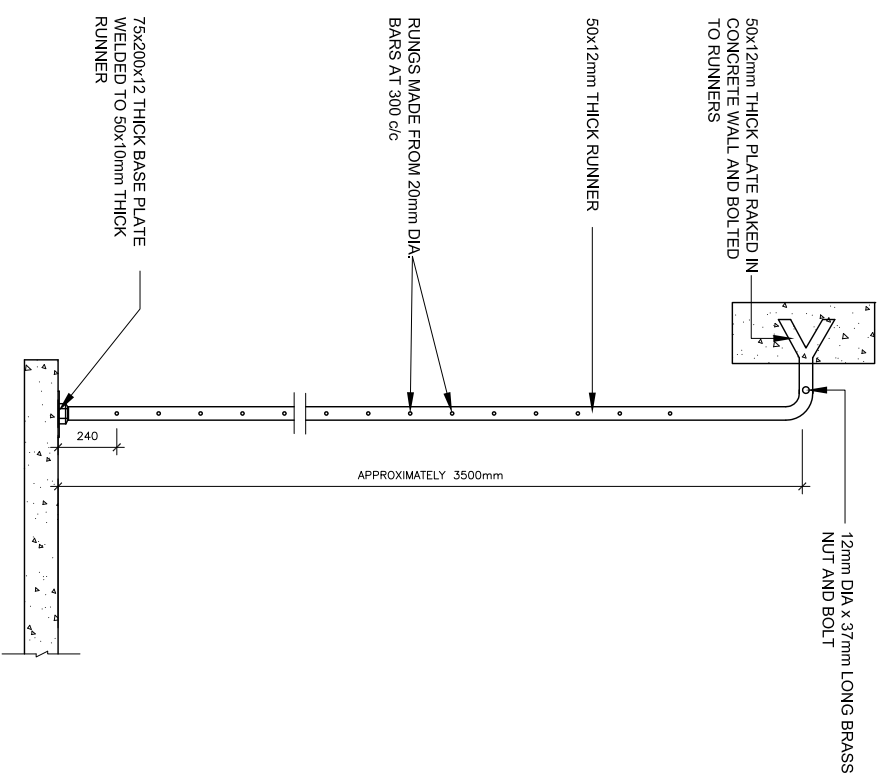
Designed by: EO
Checked by: RO
Scale: 1:100
Date: FEB. 2018
DRG No. ENSDAM/GT102



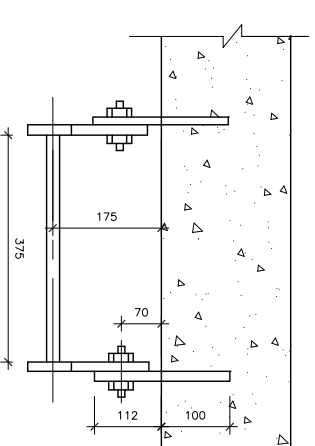
VENT PIPE DETAIL
NTS



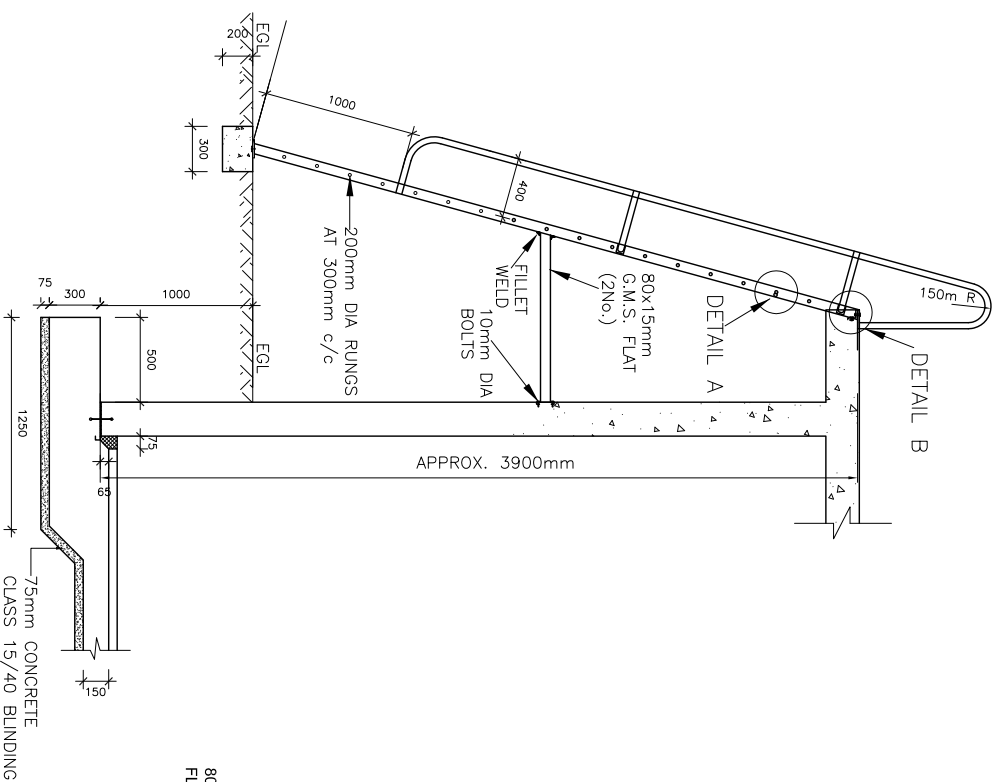
DETAIL OF JOINT AT BASE OF WALL
SCALE 1:50



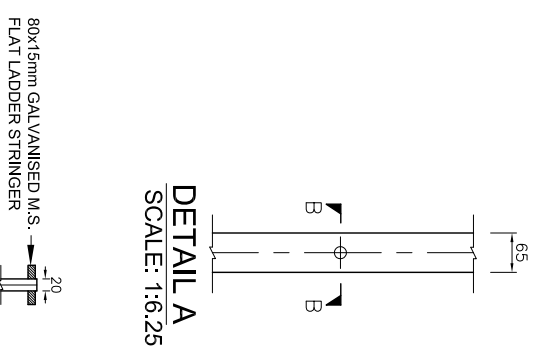
DETAIL OF INTERNAL LADDER



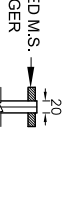
TOP ELEVATION OF INTERNAL LADDER
NTS



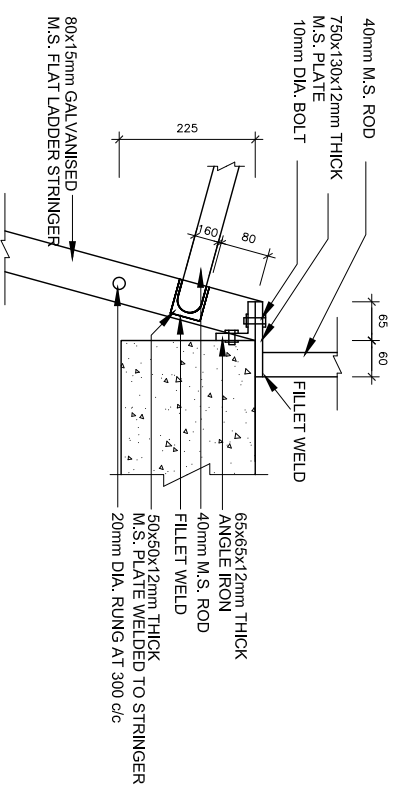
SIDE ELEVATION OF EXTERNAL GMS LADDER
SCALE: 1:25



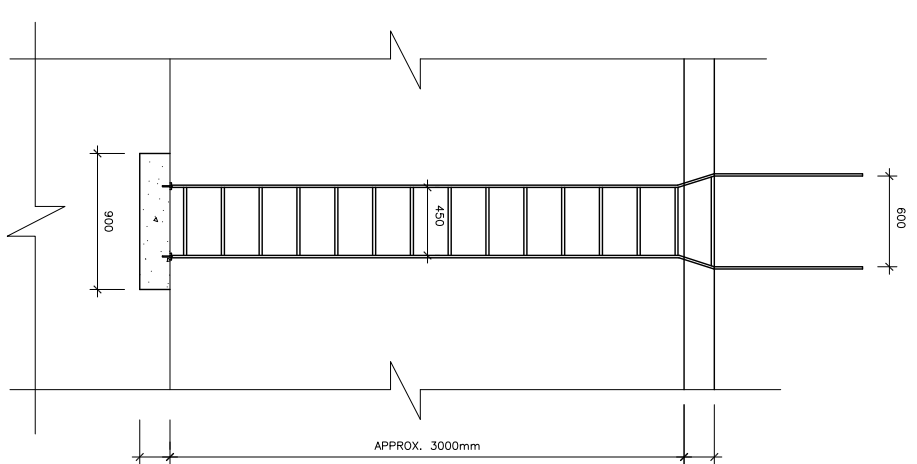
DETAIL A
SCALE: 1:6.25



SECTION B-B
SCALE: 1:100



DETAIL B
SCALE: 1:100



FRONT ELEVATION OF EXTERNAL G.M.S LADDER
SCALE: 1:25

NOTES

- SAFE GROUND BEARING PRESSURE HAS BEEN ASSUMED AT 80kN/m² (9/4 TONS/FT²) AT A DEPTH OF 0.75m BELOW EXISTING GROUND LEVEL. IF REQUISITE BEARING STRATA IS NOT OBTAINED AT THIS LEVEL, THE WEAKER MATERIAL IS TO BE EXCAVATED DOWN TO APPROVED BOTTOM AND THE LEVEL MADE UP IN CLASS 10 MASS CONCRETE.
- CONCRETE MIXES, BLINDING CONCRETE TO UNDERSIDE OF TANK TO BE MINIMUM 75mm THICK IN CLASS 19/20 NOMINAL MIX.
- FLOOR, COLUMNS, ROOF SLAB AND BEAMS, CONCRETE TO BE NOMINAL CLASS 25/20.
- WHEN CONSTRUCTING THE SUMPS, NO BACK FILLING IS TO BE ALLOWED OUTSIDE THE WALLS OF SUMP. THE SAME RESTRICTION APPLIES TO ANY PIPES RUNNING BELOW THE FLOOR. THE TRENCHES IN WHICH THESE PIPES ARE LAID MUST BE FILLED BACK WITH MASS CONCRETE CLASS 15.
- ROOF SLAB TO BE CAST SLOPING OUTSIDE AS DETAILED.
- ALL DIMENSIONS IN mm UNLESS SPECIFIED.

REV	REVISIONS	DATE	APPROVED
	CHECKED		
	BR		
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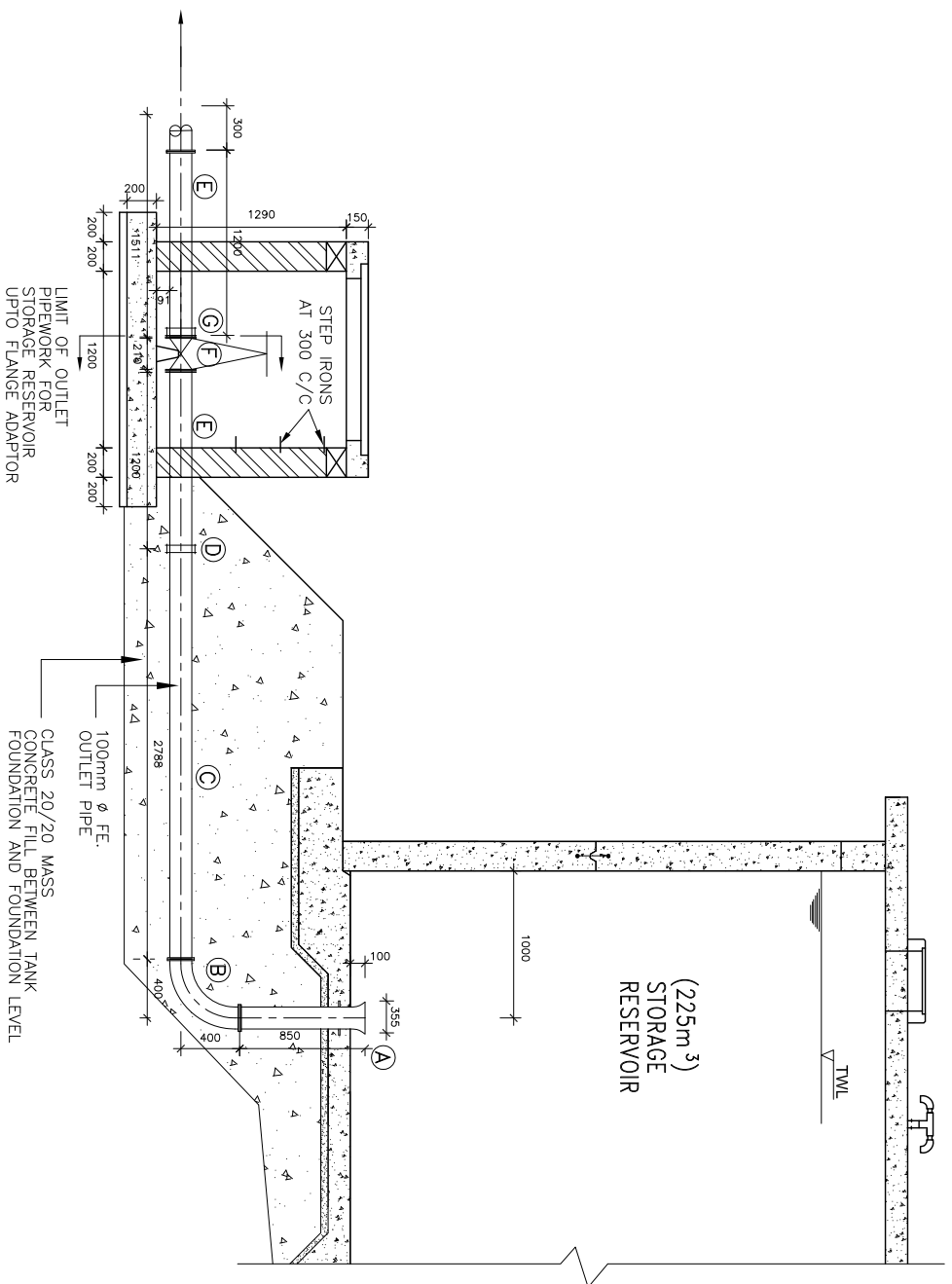
CLIENT:
EWSAO NGIRO SOUTH RIVER
BASIN DEVELOPMENT
AUTHORITY

PROJECT TITLE:
IMPROVEMENT OF WATER SUPPLY
FOR ENSDA TANNERY
EWSAO NGIRO

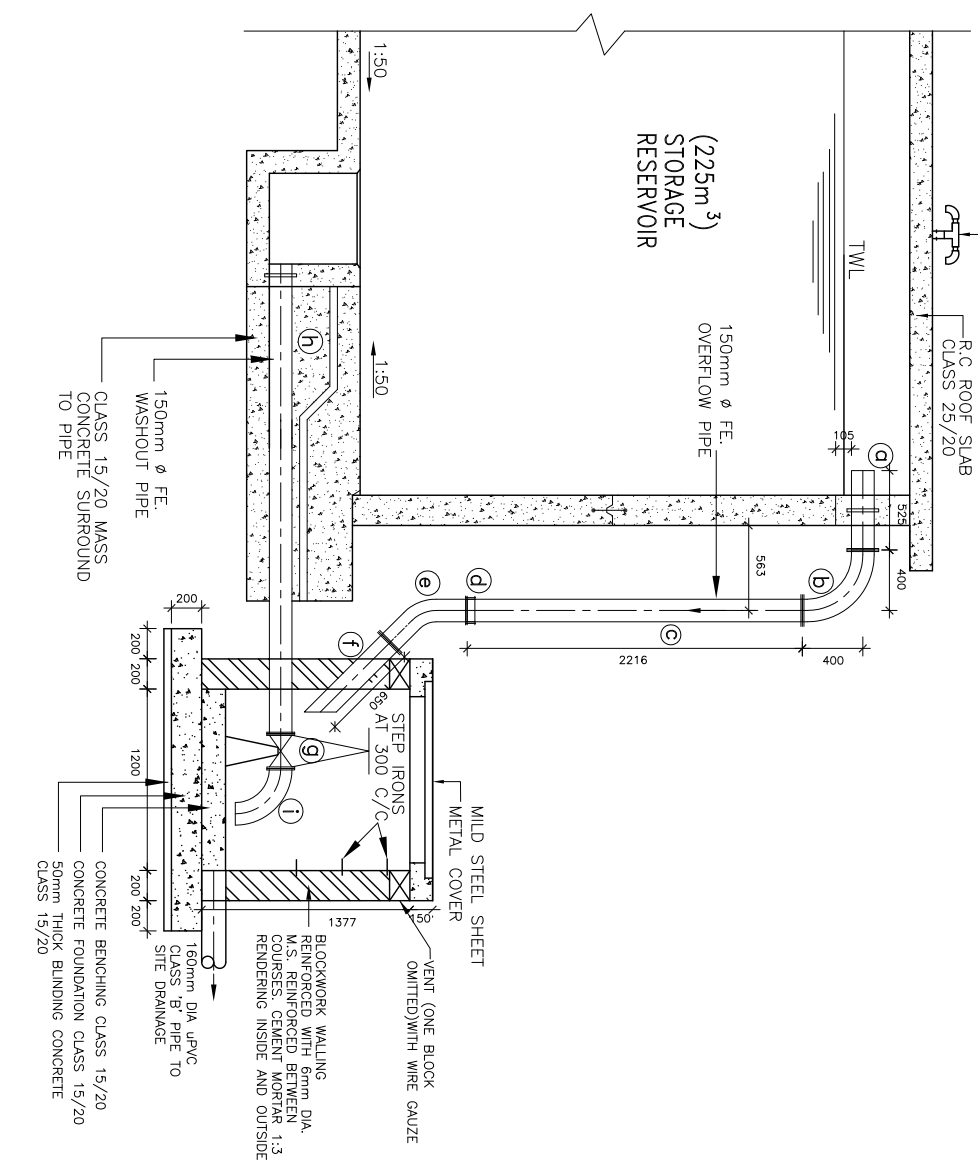
DRAWING TITLE:
DETAILS OF 225m² MASONRY
GROUND TANK

SHEET 3 OF 4

Designed by: EO	Drawn by: EO
Checked by: RO	Approved by: RO
Scale: AS SHOWN	Date: FEB. 2018
DRG No. ENSDAMS/GT03	REV



OUTLET PIPEWORK DETAILS



OVERFLOW AND WASHOUT PIPE WORK DETAILS

PIPES AND FITTINGS SCHEDULE

OUTLET PIPEWORK (APPROVED LINED FERROUS PIPES & FITTINGS)

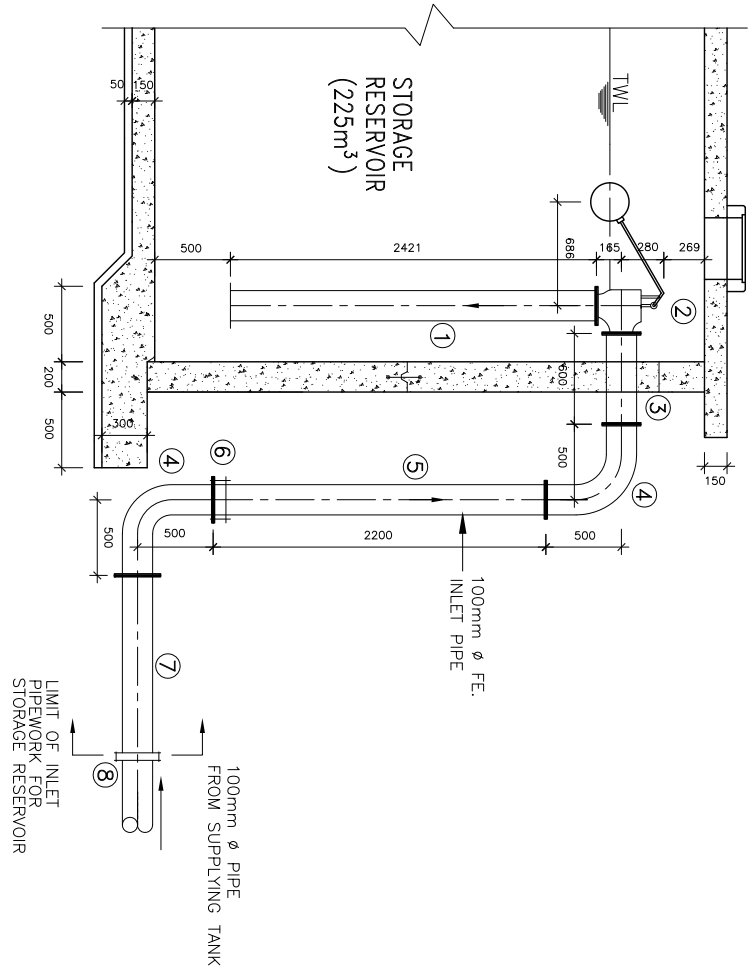
- A 1No. 100mm DIA SPECIAL SINGLE FLANGED PIPE 850mm, WITH BELLMOUTH END AND A PUDDLE FLANGE AT 175mm FROM THE BELLMOUTH END
- B 1No. 100mm DIA 90° DOUBLE FLANGED BEND
- C 1No. 100mm DIA FLANGED SPIGOT PIPE 2788mm LONG
- D 1No. 100mm DIA COUPLING
- E 2Nos. 100mm DIA FLANGED SPIGOT PIPE 1200mm LONG
- F 1No. 100mm DIA ALL FLANGED GATE VALVE (EURO 20 SERIES TYPE 23 SAINT GOBAIN PAM OR APPROVED EQUIVALENT)
- G 1No. 100mm DIA FLANGE ADAPTOR

INLET PIPEWORK (APPROVED LINED FERROUS PIPES & FITTINGS)

- ① 1No. 100mm DIA FLANGED SPIGOT PIPE 2421mm LONG
- ② 1No. 100mm DIA FLANGED BALL FLOAT VALVE (SERIES 1000-BIWATER OR APPROVED EQUIVALENT)
- ③ 1No. 100mm DIA DOUBLE FLANGED PIPE 600mm LONG WITH PUDDLE FLANGE AT 263mm FROM ONE END
- ④ 2Nos. 100mm DIA DOUBLE FLANGED 90° BEND
- ⑤ 1No. 100mm DIA FLANGED SPIGOT PIPE 3000mm LONG (CUT TO SUIT ON SITE)
- ⑥ 2Nos. 100mm DIA FLANGE ADAPTOR
- ⑦ 1No. 100mm DIA FLANGED SPIGOT PIPE 1200mm LONG
- ⑧ 1No. 100mm DIA COUPLING

OVERFLOW AND WASHOUT PIPEWORK (APPROVED LINED FERROUS PIPES & FITTINGS)

- d 1No. 150mm DIA DOUBLE FLANGED PIPE WITH PUDDLE FLANGE AT 263mm FROM ONE END
- b 1No. 150mm DIA 90° DOUBLE FLANGED BEND
- c 1No. 150mm DIA FLANGED SPIGOT PIPE 2500mm LONG (CUT TO SUIT ON SITE)
- d 1Nos. 150mm FLANGE ADAPTOR
- e 1No. 150mm DIA 45° DOUBLE FLANGED BEND
- f 1No. 150mm DIA FLANGED SPIGOT PIPE 650mm LONG (SPIGOT END BEVELLED)
- g 1No. 150mm DIA, ALL FLANGED GATE VALVE (EURO 20 SERIES, TYPE 23, SAINT GOBAIN PAM OR APPROVED EQUIVALENT)
- h 1No. 150mm DIA FLANGED SPIGOT PIPE 3107mm LONG WITH PUDDLE FLANGE AT 75mm FROM SPIGOT END
- i 1No. 150mm DIA 90° FLANGED SPIGOT BEND



INLET PIPEWORK DETAILS

NOTES
 1. INLET PIPE WORK INDICATED IS TYPICAL. ADJUSTMENT BASED ON SITE CONDITIONS IS NECESSARY BASED ON LEVELS OF THE INLET PIPE.

REV	DESCRIPTION	BY	DATE	APPROVED

CLIENT: EWASO NGIRO SOUTH RIVER BASIN DEVELOPMENT AUTHORITY

PROJECT TITLE: IMPROVEMENT OF WATER SUPPLY FOR ENSDA TANNERY EWASO NGIRO

DRAWING TITLE: DETAILS OF 225m³ MASONRY GROUND TANK SHEET 4 OF 4

Designed by: EO	Drawn by: EO
Checked by: RO	Approved by: RO
Scale: AS SHOWN	Date: FEB. 2018
DRG No. ENSDAMS/GT104	REV