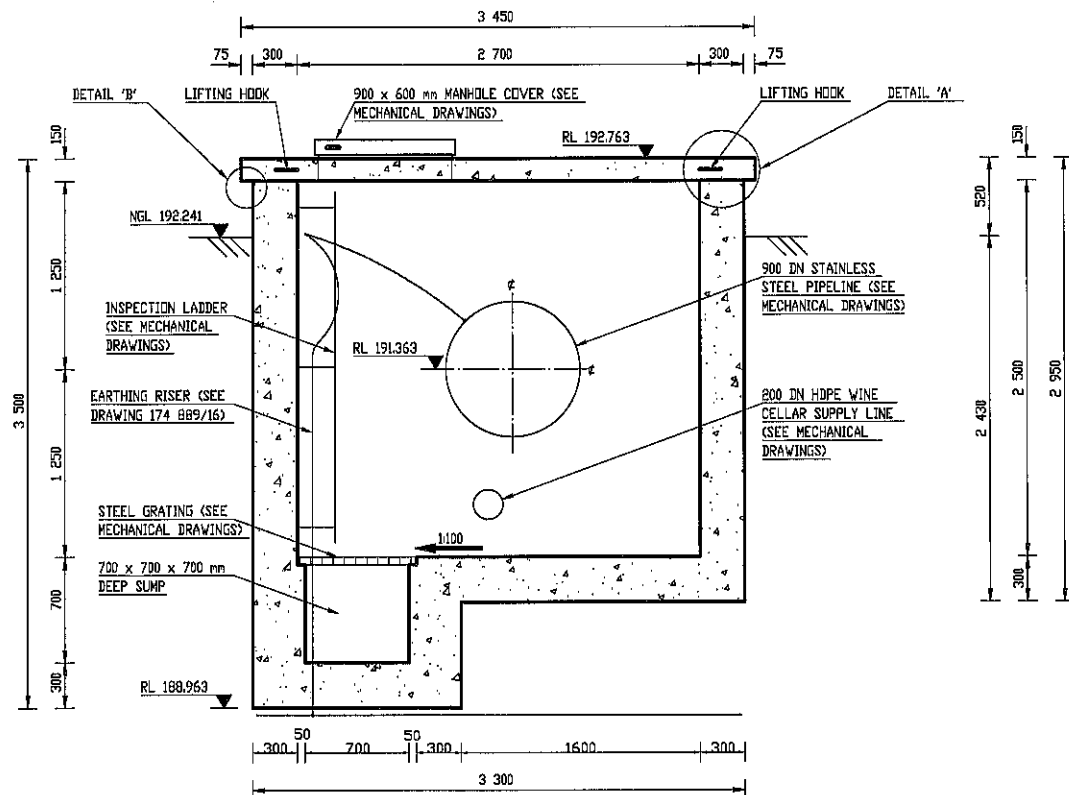
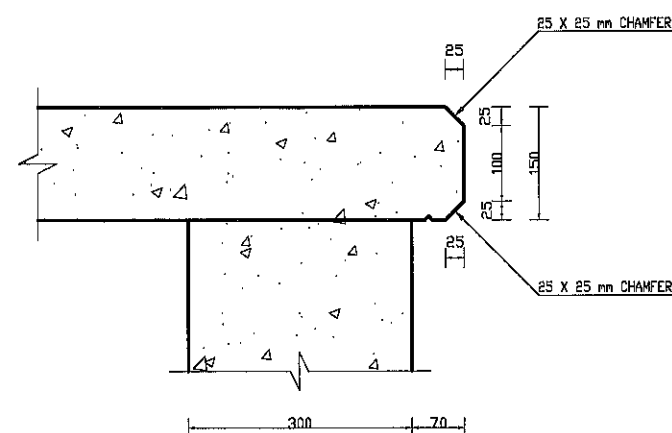


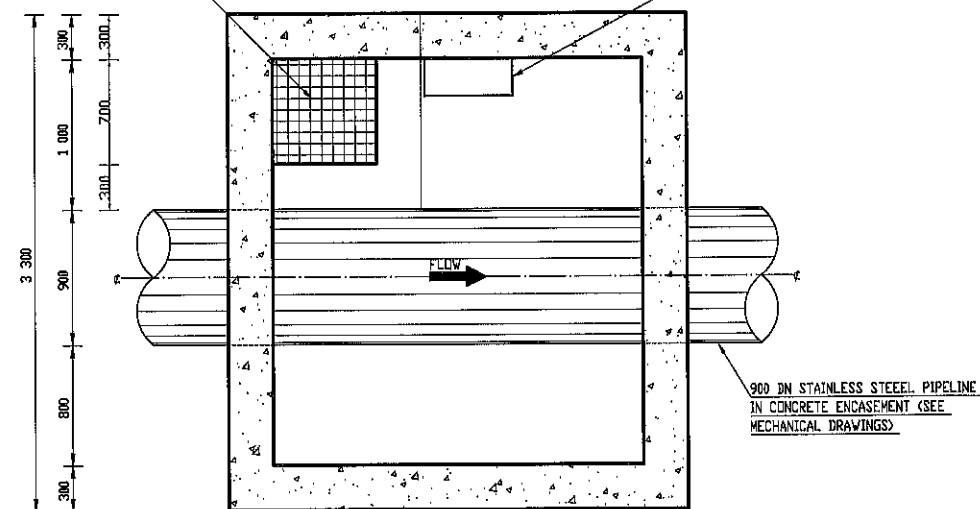


SECTION 02-02
FLOW METER CHAMBER
SCALE 1:25

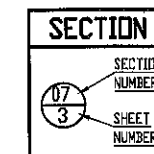


DETAIL 'A'
ROOF SLAB CHAMFER DETAIL
SCALE 1:5

DRAINAGE SUMP WITH STAINLESS STEEL GRATING COVER (SEE MECHANICAL DRAWING NO. 174581/16 ME)



SECTION 03-03
FLOW METER CHAMBER
SCALE 1:25



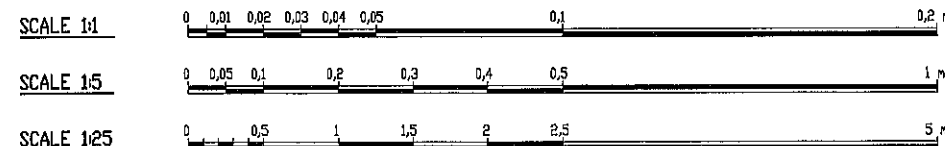
STATUS: CONSTRUCTION		
46/55	FLOW METER CHAMBER: BENDING SCHEDULE	174 893/16
45/55	FLOW METER CHAMBER: FOUNDATION AND CORNER BEND REINFORCEMENT DETAILS	174 892/16
44/55	FLOW METER CHAMBER: WALL REINFORCEMENT DETAILS	174 891/16
43/55	FLOW METER CHAMBER: ROOF SLAB REINFORCEMENT DETAILS	174 890/16
42/55	FLOW METER CHAMBER: EARTHING SURGE PROTECTION	174 889/16
41/55	FLOW METER CHAMBER: CONCRETE DETAILS	174 888/16
40/55	FLOW METER CHAMBER: CONCRETE DETAILS	174 887/16
2/55	GENERAL LAYOUT OF OUTLET WORKS (KEY PLAN)	174 849/16
1/55	LIST OF DRAWINGS FOR SERIES 06 00 OUTLET WORKS: CONCRETE AND REINFORCEMENT DETAILS	174 848/16
SHEET	DESCRIPTION	OTHER NO.
1	174 888/16	

NOTES:

- AT CHAINAGE 147.756m EXCAVATE FOR FOUNDATIONS AND CONSTRUCT REINFORCED CONCRETE FLOW METER CHAMBER FOR THE NEW DN900 OUTLET PIPE. SEE BLOCK 4 DRAWING NUMBERS 174 883/16 TO 174 886/16 FOR THE ENCASMENT DETAILS OF NEW DN900 OUTLET PIPE.
- FOR CONCRETE DETAILS REFER TO BLOCK 5 DRAWING NUMBERS 178 887/16 TO 178 889/16.
- THE ROOF SLAB OF THE FLOW METER CHAMBER SHOULD BE PRECAST AND LIFTED INTO POSITION USING LIFTING HOOKS.
- THE LIFTING HOOKS SHOULD BE EMBEDDED INTO THE PRECAST ROOF SLAB, SEE SPECIFICATION.
- THE BACKFILL LEVEL AROUND THE CHAMBER MUST BE AT LEAST 500mm BELOW THE TOP SLAB LEVEL.
- THE FLOOR MUST BE SLOPED AT LEAST 1% DOWNWARDS TOWARDS THE SUMP.
- FOR REINFORCEMENT DETAILS REFER TO BLOCK 5 DRAWING NUMBERS 178 890/16 TO 174 893/16.
- MAKE PROVISION FOR MECHANICAL, ELECTRICAL AND DE-WATERING EQUIPMENT DRAWINGS FOR THE FOLLOWING DETAILS:
 - PIPES AND SPECIALS.
 - MISCELLANEOUS (GRATINGS, LADDERS, MANHOLE COVERS AND VENTILATORS).
 - ELECTRICAL WORKS (CABLING AND DUCTS).
 - DE-WATERING EQUIPMENT (SUMP PUMPS AND DRAINAGE PIPES), SEE DRAWING 174 581/16 ME.
- ENCASE THE 150mm DIAMETER DE-WATERING PIPE IN CONCRETE. THE PIPE RUNS FROM THE CHAMBER SUMP TO THE CANAL.
- SUPPLY AND PLACE EARTH MAT AND RELATED ITEMS AS SPECIFIED ON DRAWING 174 886/16.
- SPACING HAS BEEN PROVIDED FOR AN ULTRASONIC FLOW METER WHICH WILL BE INSTALLED BY OTHERS.
- CONTRACTOR TO PROVIDE EMPLOYER'S AGENT WITH METHOD STATEMENTS FOR APPROVAL PRIOR TO ANY EXCAVATION, FOUNDATION PREPARATION AND CONSTRUCTION.
- THE DEPTH AND NATURE OF THE EXISTING FOUNDATION MATERIAL IS UNKNOWN AND WILL BE DETERMINED ON SITE. THE EMPLOYER'S AGENT WILL APPROVE THE FOUNDATION AND SURFACE BEFORE ANY CONSTRUCTION WILL COMMENCE.
- CONTRACTOR TO TAKE INTO ACCOUNT ALL INFORMATION INCLUDED IN THE CONTRACT, INCLUDING BUT NOT LIMITED TO CONTRACT DATA, PRICING DATA, SCOPE OF WORKS WITH SPECIFICATIONS AND SITE INFORMATION.

SPECIFICATIONS:

- CONCRETE CLASS 40/15.
- 50% GROUND GRANULATED COREX SLAG CEMENT REPLACEMENT (OR EQUIVALENT, SUBJECT TO THE APPROVAL OF THE EMPLOYER'S AGENT).
- ALL EXPOSED CORNERS TO HAVE 25 x 25 mm CHAMFER.
- ALL NON-SHUTTERED CONCRETE SURFACES SHALL HAVE WOOD FLOATED SURFACE.
- LIFTING HOOK FOR ROOF SLAB SPECIFICATION:
 - 4 x PFEIFER (OR SIMILAR) STAINLESS STEEL FLAT ANCHOR Rd 18 LIFTING ANCHOR (REFERENCE NUMBER 05.002.18.04).
 - ANCHOR PLATE TO BE FIXED TO REINFORCEMENT AND EMBEDDED IN CONCRETE.



REVISION				DEPARTMENT OF WATER AND SANITATION REPUBLIC OF SOUTH AFRICA		DAM SAFETY REHABILITATION PROJECT										
NO.	DATE	DESCRIPTION	FOR	DWG	HEAD OFFICE CIVIL ENGINEERING PRIVATE BAG X313 PRETORIA 0001	SEDIENG BUILDING 185 FRANCIS BAARD STREET PRETORIA (012) 336-7500	KWAGGASKLOOF DAM REHABILITATION FLOW METER CHAMBER: CONCRETE DETAILS									
				CHECKED: T. MABALE	DATE: 22/11/16	DESIGN: K. POOE										
				DESIGNED: L. MUNRO	DATE: 15/16	EXT. APPROVAL / DESIGN-OWNED: DATE: 12/08/22										
				CHIEF ENGINEER / APP. CIV. ENGR	DATE:	DIRECTOR: CIV. ENGR										
							PROVINCIAL: WESTERN CAPE	DISTRICT: WORCESTER	KEYWORDS:	DAC	SLP	DET	PSS	OTHER NUMBER	REV.	
							LOCALITY No: H100-08	TENDER/ CONTRACT No:	SHEET	REG. No:					41 OF 55	
							CALCULATION FILE: -							174 888/16	00	