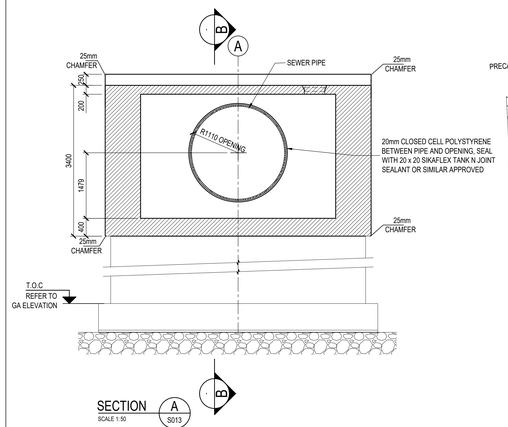
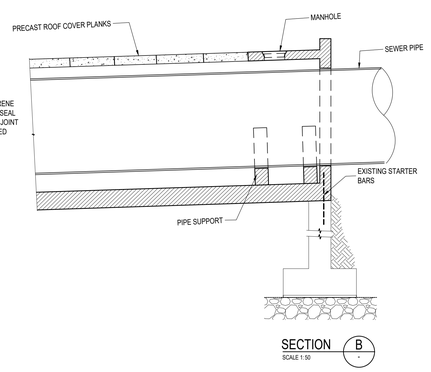
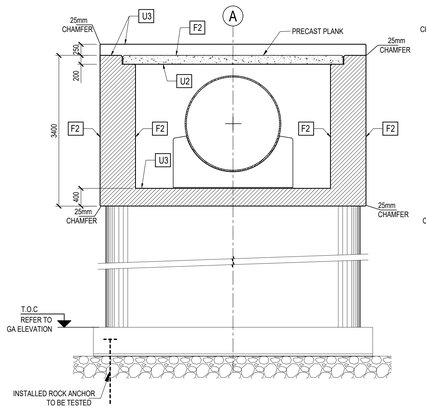


SECTION A S013
SCALE 1:50



SECTION B
SCALE 1:50



SECTION C S013
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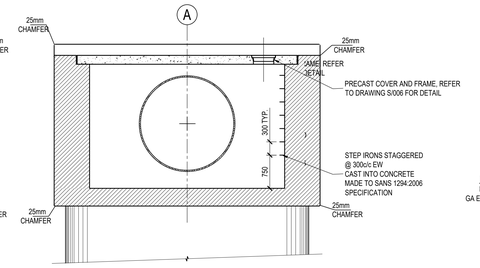
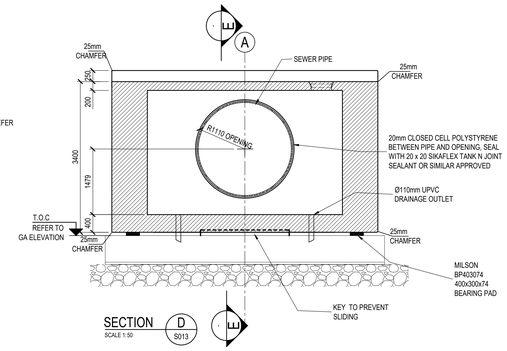
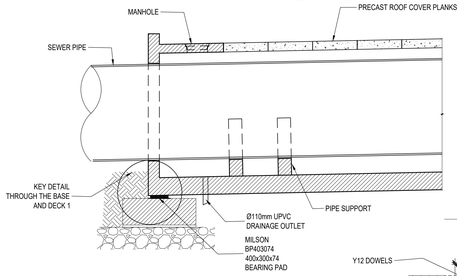
+TYPICAL FINISHES



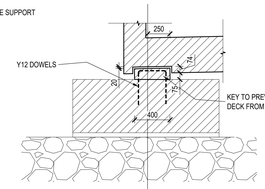
TYP. DECK ACCESS DETAIL
SCALE 1:50



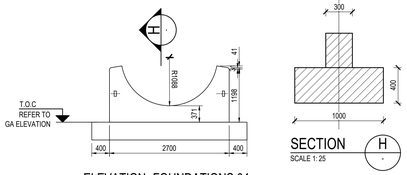
SECTION D S013
SCALE 1:50



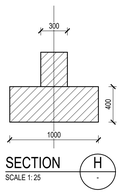
SECTION E
SCALE 1:50



KEY DETAIL
SCALE 1:25



ELEVATION- FOUNDATIONS 04
SCALE 1:50



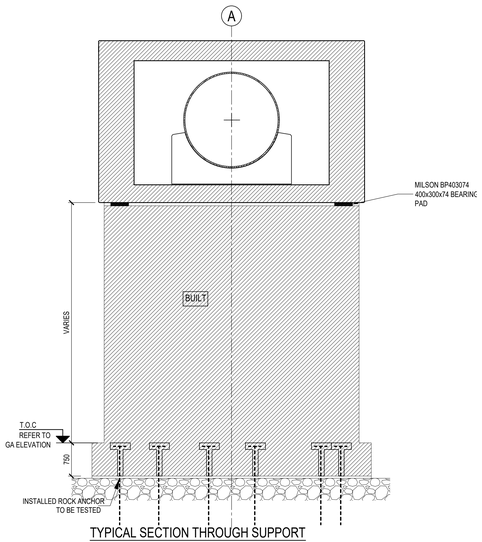
SECTION H
SCALE 1:25

NOTES: REINFORCED CONCRETE

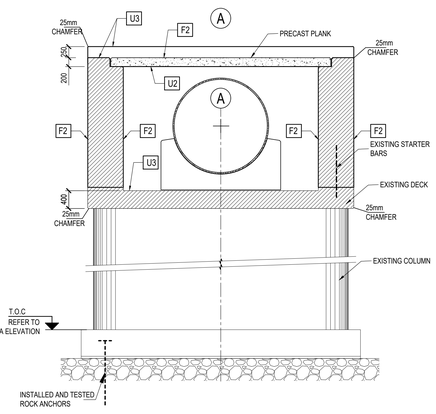
1. THE APPLICABLE STANDARD SPECIFICATION IS *SANS 1200G - 1982* WHICH SHOULD BE READ IN CONJUNCTION WITH THE VARIATIONS AND ADDITIONS CONTAINED IN *THEMBA PROJECT SPECIFICATION FOR CONCRETE (STRUCTURAL)*
2. CONCRETE COVER TO REINFORCEMENT AND CONCRETE STRENGTH TO BE AS INDICATED BELOW. COVER IS GIVEN TO THE NEAREST FACE. MINIMUM BAR COVER TO BE MAXIMUM OF BAR DIAMETER AND AS SHOWN BELOW. SPECIFIED COVER TO BE MAINTAINED USING CEMENT MORTAR COVER BLOCKS OR APPROVED PLASTIC SPACERS.

ELEMENT	CONCRETE STRENGTH AT 28 DAYS (MPa)	COVER mm
FOUNDATIONS	30	50
COLUMNS	30	45
BEAMS	30	45
SLABS	30	45
WALLS	30	45
PLANKS	40	30

3. ALL AGGREGATE TO BE 10mm UNLESS OTHERWISE SPECIFIED.
4. CONCRETE DESIGN MIXES TO BE SUBMITTED TO ENGINEER FOR COMMENTS PRIOR TO CONSTRUCTION.
5. CUBE TESTS TO BE CARRIED OUT ON SITE AND LOGGED WITH POSITION AND DATE. CUBES TO BE TAKEN FOR EACH TYPE OF ELEMENT, AT LEAST ONE SET DAILY AND AT LEAST ONE SET EVERY 50m³.
6. REINFORCEMENT TO BE IN ACCORDANCE WITH SANS 920 AND SHALL BE BENT IN ACCORDANCE WITH SANS 82
7. ALL CAST IN ITEMS SHALL BE FREE OF OIL, GREASE, DIRT OR ANY OTHER MATERIAL WHICH MAY IMPAIR THE BOND WITH THE CONCRETE. CONTRACTOR TO REFER TO ARCHITECT /SPECIALIST DRAWINGS FOR DETAILS/POSITIONS OF OPENINGS, SLEEVES, CONDUITING, ETC. FOR STORMWATER, SEWERAGE AND OTHER SERVICES.
8. FOUNDATIONS HAVE BEEN DESIGNED FOR AN ALLOWABLE GROUND BEARING CAPACITY OF 1000 kPa.
9. ALL FOUNDATION EXCAVATIONS TO BE INSPECTED BY THE GEOTECHNICAL ENGINEER PRIOR TO CONCRETING.
10. REMOVAL OF FORMWORK TO BE IN ACCORDANCE WITH THE PROJECT SPECIFICATION. IT IS THE CONTRACTORS RESPONSIBILITY FOR BACK-PROPPING ON MULTI-STOREY SLAB CONSTRUCTION
11. ALL EXPOSED CORNERS TO BE CHAMFERED 25x25 O.U.N.

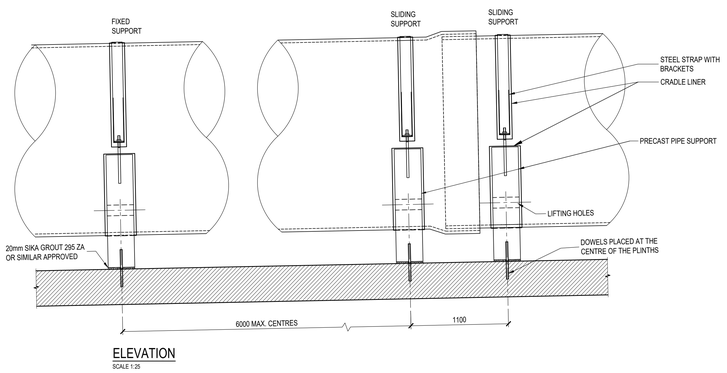


TYPICAL SECTION THROUGH SUPPORT
SCALE 1:50

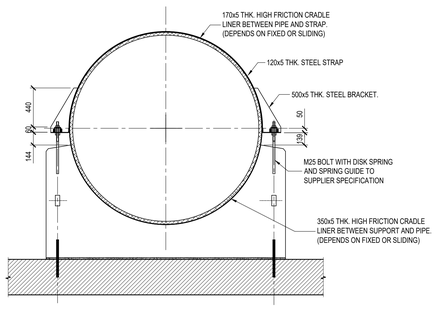


SECTION F S021
SCALE 1:50

+TYPICAL FINISHES



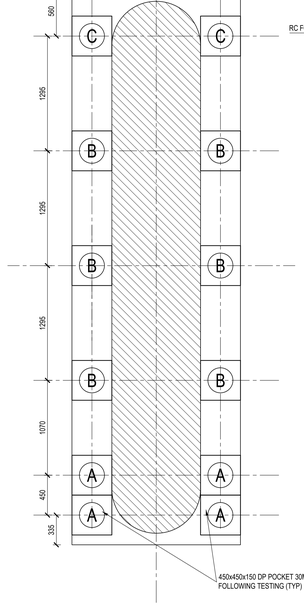
ELEVATION
SCALE 1:25



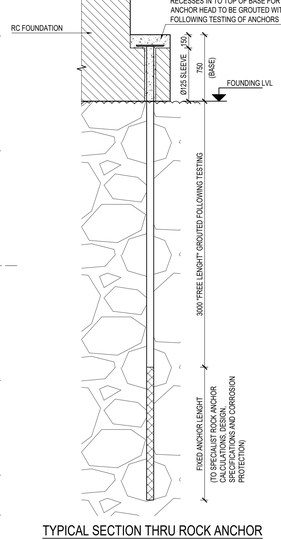
SECTION-FIXED SUPPORT
SCALE 1:25

TYP. PIPE FIXING TO CONCRETE SUPPORT DETAIL
SCALE 1:25

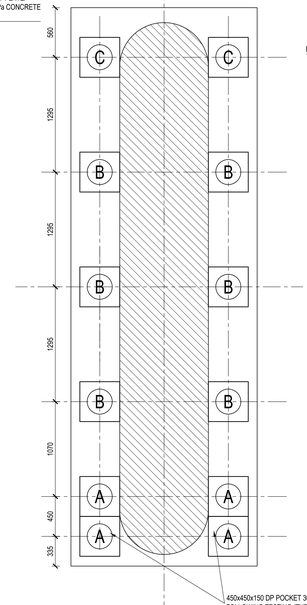
NOTE:
1. SUPPORT ARRANGEMENTS, JOINING, ANCHORS, GUIDES, CLAMPS AND SUPPORT SPACING TO PIPE SUPPLIER SPECIFICATION.
2. CONTRACTOR TO CONFIRM WITH PIPE SUPPLIER PRIOR CONSTRUCTION AND INSTALLATION COMMENCEMENT .



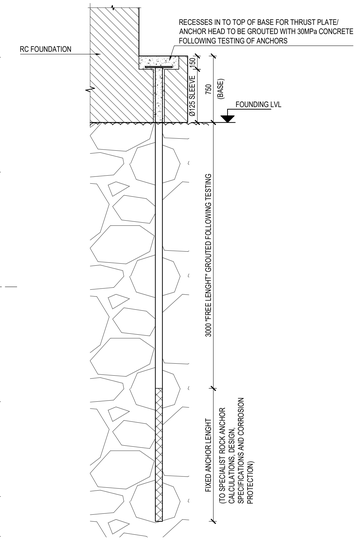
TYPICAL PLAN-ROCK ANCHOR DETAIL FOUNDATION 02
SCALE 1:25



TYPICAL SECTION THRU ROCK ANCHOR
SCALE 1:25



TYPICAL PLAN-ROCK ANCHOR DETAIL FOUND 05
SCALE 1:25



TYPICAL SECTION THRU ROCK ANCHOR
SCALE 1:25

REF.	LOADS (KN)	
	WORKING	ULTIMATE
A	1050	1700
B	750	1250
C	400	650

INSTALLED TENDON TO BE TESTED AS PER SPECIFICATION. 3 TESTS PER BASE ONE OF EACH TYPE A, B AND C

CONSULTANTS DWG NO
13247-02/S/014/A

themba Confidence Trust
INFRASTRUCTURE CONSULTING
Tel: 0861themba (843633)
email: info@themba-africa.com

CLIENT
JOHANNESBURG WATER
TURBINE HACC
62 NTEMI PICISO STREET
NEW TOWN

DESIGNED	KB	10/02/2021	
DRAWN	WM	30/09/2024	
CHECKED	LD	30/09/2024	
APPROVED BY:			
	SIGNATURE	DATE	
ECSA REG. No.			
CHECKED BY:			
	SIGNATURE	DATE	

Johannesburg Water

TURBINE HACC
62 NTEMI PICISO STREET
NEWTOWN

TEL: (011) 688-1400

FAX: (011) 688-1521

Joburg

DIEPSLOOT SEWAGE AQUEDUCT PHASE 1,2,&3
BRIDGE 2

SECTIONS AND DETAILS

SURVEY INFORMATION		APPROVAL BY JW DEPOT			SCALE
PROJECT SURVEYOR:		CHECKED			AS SHOWN
		APPROVED BY:			
DATE:			SIGNATURE	DATE	
CCTV INFORMATION		APPROVAL BY JW PLANNING			
CCTV COMPANY:		CHECKED			
		APPROVED BY:			
DATE:			SIGNATURE	DATE	

REV:	DESCRIPTION	DATE:
A	ISSUED FOR TENDER	30/09/2024

AMENDMENTS

DRAWING No.

JW14455 – A
PROJECT No. DRAWING No. REV.

A0 SHEET 2 OF 3
ORIGINAL PAGE SIZE

FILE No.