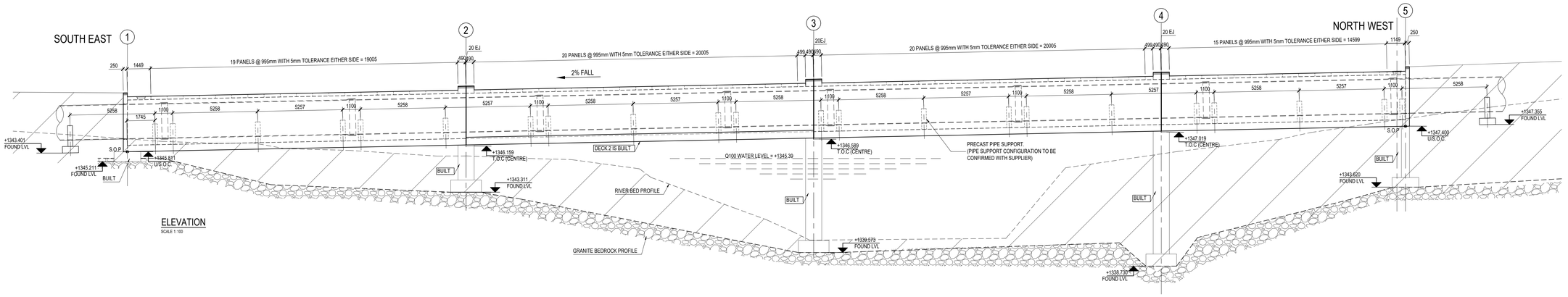
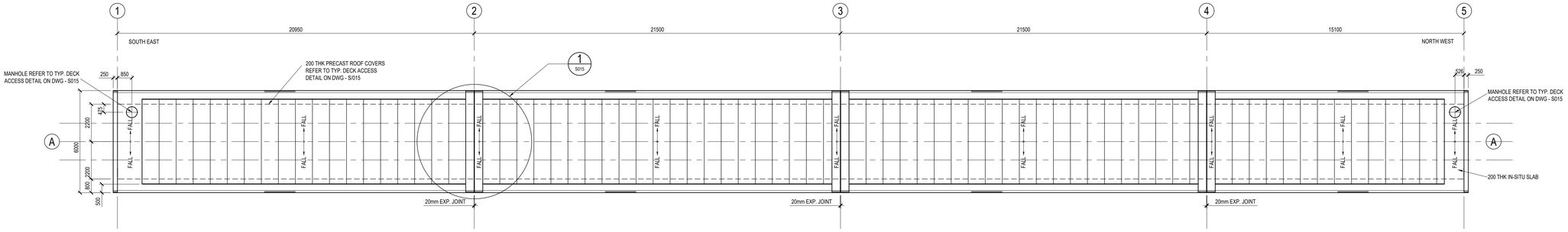
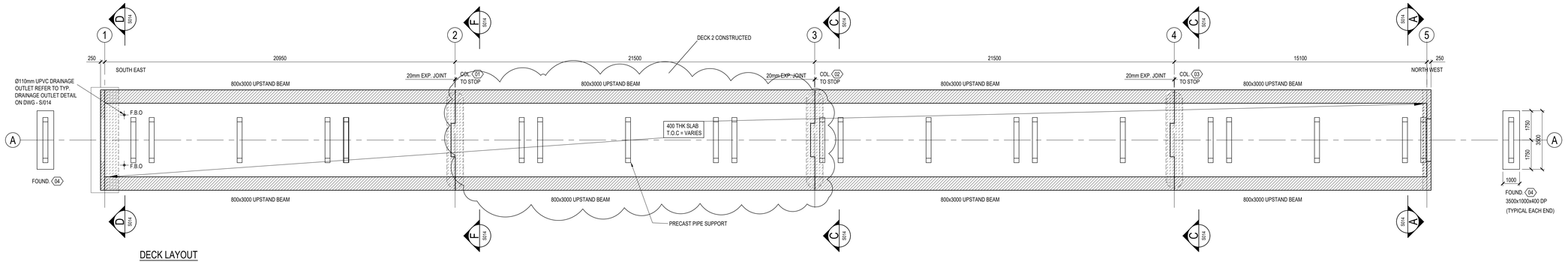


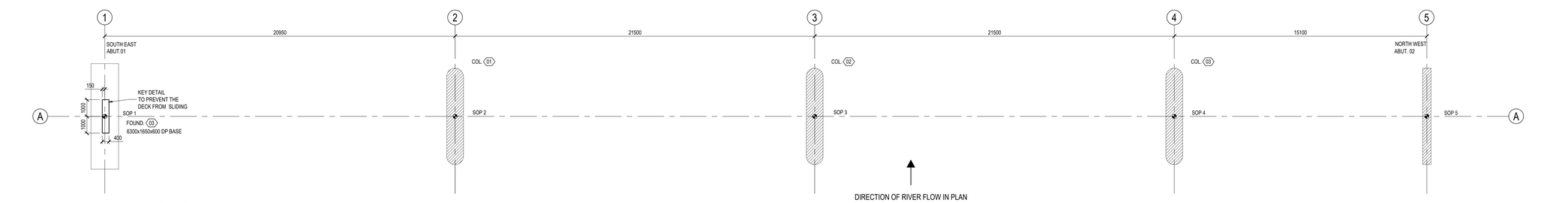
ELEVATION
SCALE 1:100



ROOF LAYOUT
SCALE 1:100



DECK LAYOUT
SCALE 1:100
(PIPE NOT SHOWN)



PIERS LAYOUT
SCALE 1:100
ABUTMENTS AND PIERS ARE CONSTRUCTED

FOR BENCHMARKS REFER TO DWG 13247-02-C-SEW-301-0

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 19mm 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 CONTRACTOR'S RESPONSIBILITY FOR BACK-PROPPING ON MULTI-STOREY SLAB CONSTRUCTION
11. ALL EXPOSED CORNERS TO BE CHAMFERED 25x25 O.U.N.

SOP - SETTING OUT POINT

NAME	COORDINATE	
SOP 1	Y = 99507.887	X = 2872274.869
SOP 2	Y = 99511.586	X = 2872254.250
SOP 3	Y = 99515.383	X = 2872233.088
SOP 4	Y = 99517.750	X = 2872212.200
SOP 5	Y = 99523.858	X = 2872185.847

CONSULTANTS DWG NO
13247-02/S/013/A

DRAWING No.

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

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

CLIENT
JOHANNESBURG WATER
TURBINE HACC
62 NTEMI PICISO STREET
NEW TOWN

Johannesburg Water

TURBINE HACC
62 NTEMI PICISO STREET
NEWTOWN

TEL: (011) 688-1400
FAX: (011) 688-1521

Joburg

DIEPSLOOT SEWAGE AQUEDUCT
BRIDGE 2

GENERAL ARRANGEMENT

SURVEY INFORMATION			
PROJECT SURVEYOR:			
DATE:			
CCTV INFORMATION			
CCTV COMPANY:			
DATE:			

APPROVAL BY JW DEPOT		
CHECKED		
APPROVED BY:		
	SIGNATURE	DATE
APPROVAL BY JW PLANNING		
CHECKED		
APPROVED BY:		
	SIGNATURE	DATE

SCALE: AS SHOWN

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

JW14455 — PROJECT No.
DRAWING No. — A — REV.
A0 — ORIGINAL PAGE SIZE
SHEET 1 OF 3
FILE No.