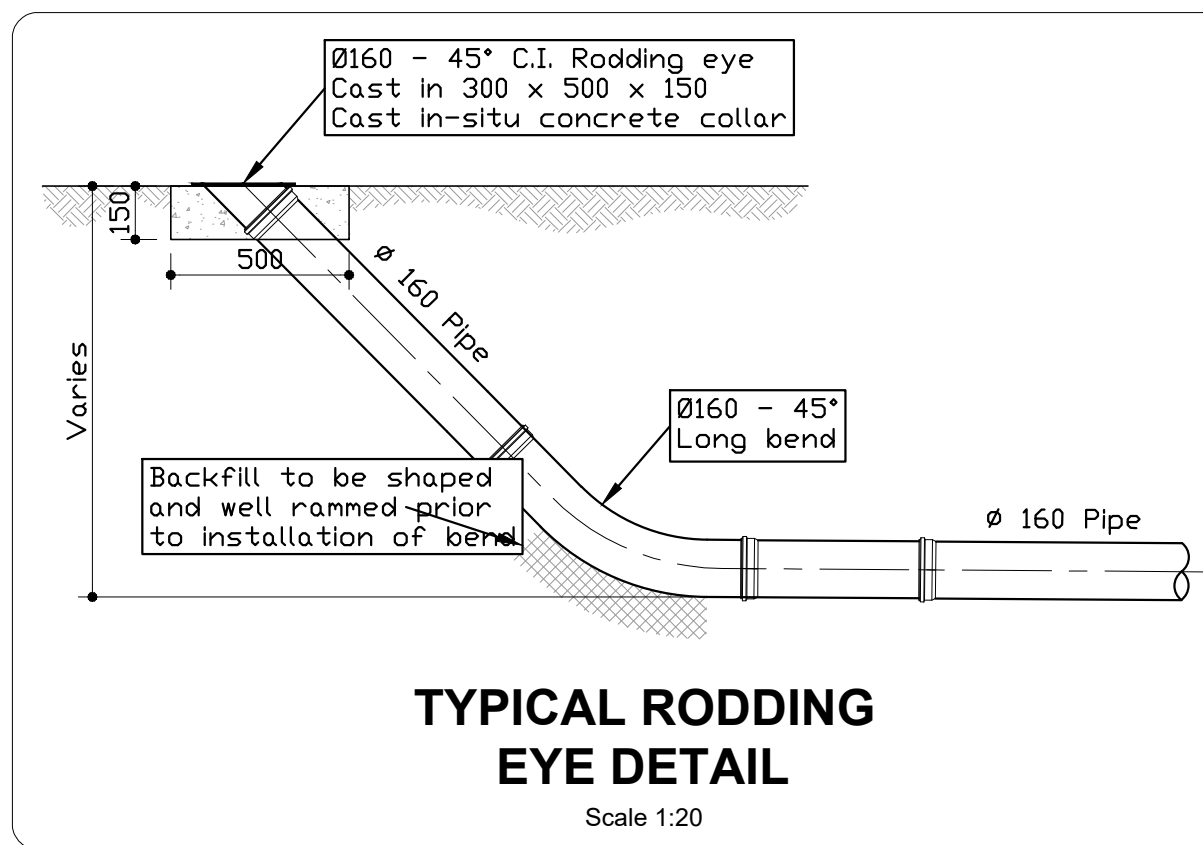
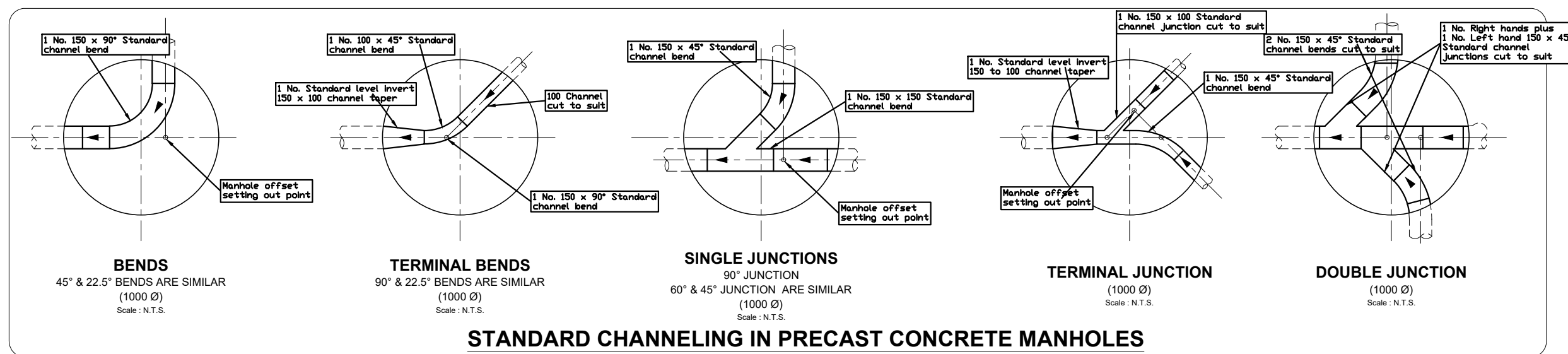


SEWER LAYOUT PLAN  
SCALE 1:500



TYPICAL RODDING  
EYE DETAIL  
Scale 1:20



STANDARD CHANNELING IN PRECAST CONCRETE MANHOLES

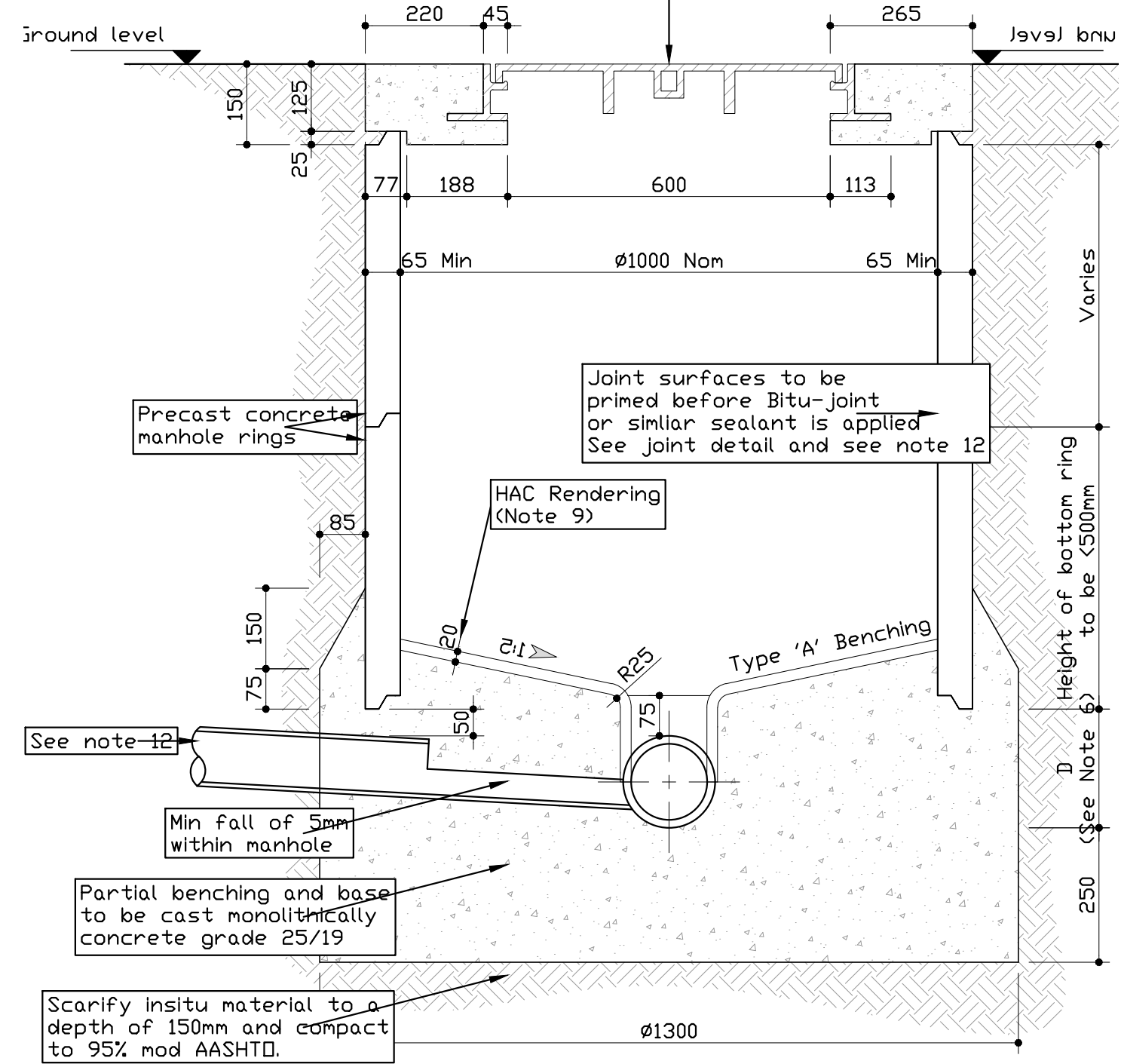
PROPOSED SEWER NETWORKS SYMBOLS

SYMBOL	DESCRIPTION
	PROPOSED SEWER LINE
	EXISTING MANHOLE
	PROPOSED MANHOLE
	PROPOSED SEPTIC TANK AND SOAK AWAY

GENERAL NOTES:

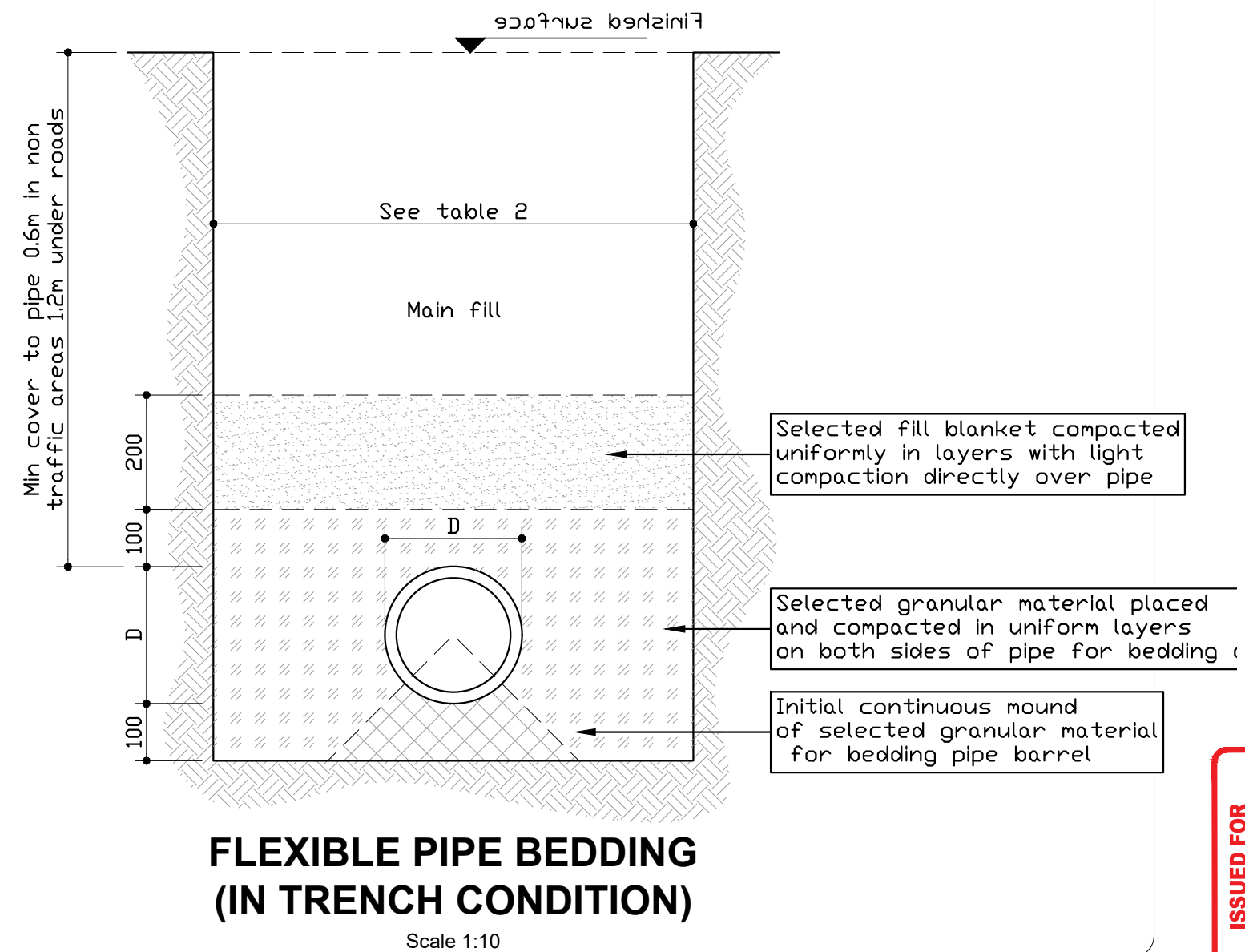
- THESE NOTES MUST BE READ IN CONJUNCTION WITH THE DRAWINGS AND PROJECT SPECIFICATIONS INCLUDING THE SANS 1200 STANDARD SPECIFICATIONS.
- THE CONTRACTOR MUST IMPLEMENT A QUALITY ASSURANCE SYSTEM FOR THE EXECUTION OF THE WORK. THE QUALITY MANAGEMENT SYSTEM MUST BE APPROVED BY THE ENGINEER PRIOR TO THE START OF THE WORK. THE CONTRACTOR MUST PERFORM A QUALITY CONTROL INSPECTION BEFORE THE ENGINEER WILL DO ANY INSPECTIONS.
- THE CONTRACTOR SHALL CHECK ALL DIMENSIONS BEFORE COMMENCEMENT OF CONSTRUCTION OF ANY PORTION OF THE WORK. ANY DISCREPANCIES SHALL IMMEDIATELY BE REPORTED TO THE ENGINEER.
- WORK TO BE DONE TO FIGURED DIMENSIONS ONLY.
- PRODUCTS DIFFERENT TO THOSE SPECIFIED MAY ONLY BE USED WITH THE ENGINEER'S PRIOR WRITTEN APPROVAL.

SANS No. 50124  
Heavy duty class (400Kn loading capacity)  
Ductile iron cover with lockable key  
Non drainage manhole cover  
Circular internal dims Ø645mm  
Circular external frame Ø600mm  
(Cover and frame or similar approved)



SECTION OF Ø1000  
MANHOLE CHANNELLING  
Scale 1:10

TABLE 2 EXTERNAL DIA OF PIPE BARREL (mm)		SIDE ALLOWANCE ON EACH SIDE (mm)
Over	Up to and including	
125	125	300
700	700	300
1000	1000	400
2000	2000	500
		600



FLEXIBLE PIPE BEDDING  
(IN TRENCH CONDITION)  
Scale 1:10

NOTES

SEWER MANHOLE NOTES:

- All precast concrete manhole components to comply with the requirements of SANS1294 (where applicable)
- Lengths of individual wall units are to vary in multiples of 250mm.
- For details of steel reinforcement to manhole covers, cover slabs and frames - see standard precast details.
- Dimension D varies with the diameter of the pipes. Dimension D shall be to a point 50mm above the highest crown of the pipes.
- Rendering for manhole benching shall consist of 1 part cement to parts sand thoroughly mixed and applied to concrete surfaces while the latter are still green. Rendering shall be at least 20mm thick.
- The length of pipe built into the manhole shall not exceed 2.5m.
- This drawing to be read in conjunction with standard channeling detail.
- Rendering for manhole benching shall consist of 1 part H.A.C. to 2 parts sand thoroughly mixed and applied to concrete surfaces while the latter are still green. Rendering shall be at least 20mm thick.
- All pipes built into manholes shall not exceed 10m in length, and the adjoining pipe shall not exceed 20m in length.
- Every uPVC pipe built into a manhole shall have clean dry sand (to SANS 1083 Table 1) glued to its outside as recommended by pipe manufacturer using special PVC cement to ensure good adhesion.

CLIENT



REV NO.	DATE	DESCRIPTION
R01	2021-10-19	MANHOLE NUMBERS CHANGED
R00	2021-10-14	ISSUED FOR DETAIL DESIGN

REVISIONS

PROJECT CONSULTANT

**PROJECTNEERS**

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DRAWING CHECKS  
B. NCUBE M. MAWIMBA B. NCUBE M. MAWIMBA

APPROVAL CONSULTANT  
B. TSHUMA

NOTE: THE MASTER HELD AT THE PROJECTNEERS CONSULTING ENGINEERS OFFICE BEARS THE ORIGINAL SIGNATURE OF APPROVAL

PROJECT NAME  
PROPOSED PROVISION OF ADDITIONAL SCHOOL INFRASTRUCTURE AT GOAKGANYA PRIMARY SCHOOL ON BEHALF OF THE NORTH WEST DEPARTMENT OF EDUCATION (NW DoE)

PROJECT SITE  
GOAKGANYA PRIMARY SCHOOL, MADIBENG LOCAL MUNICIPALITY, NORTH WEST PROVINCE

SHEET TITLE  
PROPOSED SEWER LAYOUT  
DISCIPLINE  
CIVIL ENGINEERING

CONTRACT NUMBER  
RFP 268/2019

FILE NUMBER  
ZA2020\_2003

DRAWING NUMBER  
PUN\_ZA\_2020\_2003\_DBSA\_GKPS\_CE\_3001\_R00

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