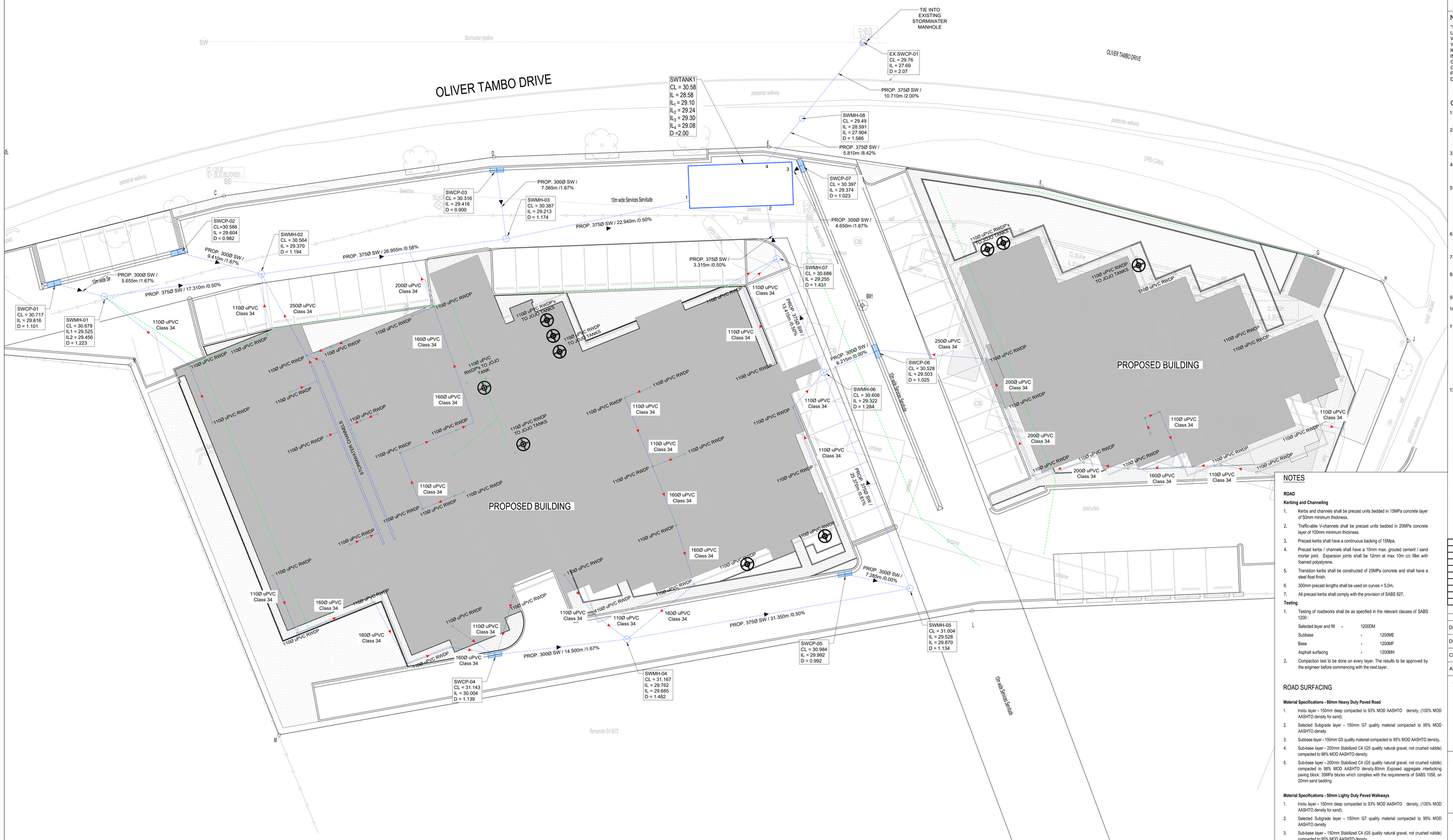

LEGEND

- PROPOSED SW MANHOLE
- PROPOSED SW CATCHPIT
- PROPOSED ATTENUATION TANK
- PROPOSED SW PIPELINE
- PROPOSED PARKING
- PROPOSED SUBSOIL PIPE

REFERENCE DRAWINGS

DRAWING No	TITLE DESCRIPTION	SOURCE

NOTE

"SHOULD THESE DRAWINGS AND PROJECT SPECIFICATIONS BE USED OR RELIED UPON FOR ANY OTHER PURPOSE OTHER THAN WHAT THEY WERE INTENDED FOR ON THIS SPECIFIC SITE, WITHOUT FORCE ENGINEERING CONSULTINGS' PRIOR KNOWLEDGE AND WRITTEN CONSENT, THEN THE USER SHALL INDEMNIFY THE COPYRIGHT HOLDER AGAINST ALL LIABILITIES, CLAIMS, DAMAGES, LOSSES, FINES AND/OR PENALTIES (EITHER IN CONTRACT OR DELICT) INSTITUTED BY THE USER OR ANY OTHER PARTY AS RESULT OF THEIR RE-USE OF OR RELIANCE ON THESE DRAWINGS AND PROJECT SPECIFICATIONS."

GENERAL NOTES

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ARCHITECT'S DRAWINGS.
2. ALL DIMENSIONS ARE IN mm AND ARE TO BE CHECKED ON SITE, ANY DISCREPANCIES TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
3. BEAM SIZES ARE GIVEN BREADTH x DEPTH.
4. CONCRETE COVER TO REINFORCING TO BE MAINTAINED BY THE USE OF EITHER NYLON SPACERS OR PRECAST CONCRETE BLOCKS WITH BINDING WIRES CAST IN.
5. REINFORCED CONCRETE :- REQUIRED CHARACTERISTIC CUBE STRENGTH AT 28 DAYS.

FOUNDATIONS	30 MPa
R.C. WALLS	30 MPa
BLINDING LAYER	15 MPa
SLABS	30 MPa

6. ALL REINFORCEMENT TO BE INSPECTED BY THE ENGINEER PRIOR TO CASTING OF CONCRETE. MINIMUM 1 DAYS NOTICE IS REQUIRED FOR INSPECTION.
7. FOUNDATIONS ARE DESIGNED FOR A MAXIMUM SAFE BEARING LOAD OF 150 kPa.
8. CONCRETE COVER TO REINFORCEMENT SHALL BE AS FOLLOWS:- ALL ELEMENTS 50 mm
9. ALL WORK SHALL COMPLY WITH SANS 1200
10. DESIGN HAS BEEN CARRIED OUT IN ACCORDANCE WITH SANS 0100, 0160, 0162, 0163 & 1064 AS APPLICABLE.
11. THE WORKS WILL BE INSPECTED FROM TIME TO TIME BY THE CONSULTING ENGINEER TO ASCERTAIN THAT THE CONTRACTOR IS CARRYING OUT THE WORK IN GENERAL CONFORMITY WITH THE ENGINEERING DRAWINGS & DOCUMENTS. SUCH INSPECTIONS ARE NOT CARRIED OUT FOR THE BENEFIT OF THE CONTRACTOR , AND DO NOT RELIEVE HIM OF THE RESPONSIBILITY FOR THE PROPER CONSTRUCTION OF THE WORKS IN ACCORDANCE WITH THE ENGINEERING DRAWINGS , DOCUMENTS AND GOOD BUILDING PRACTICE.
12. LIVE LOADS AS PER TMH 7, PART 1 & 2 NA LOADING ONLY CONSIDERED

ALL MATERIALS & WORKMANSHIP TO BE IN ACCORDANCE WITH THE RELEVANT SABS SPECIFICATION.

ALL WORK TO BE CONTINUED IN ACCORDANCE WITH THE NATIONAL BUILDING REGULATIONS, ENVIRONMENTAL AND OCCUPATIONAL HEALTH AND SAFETY ACT, LATEST REVISION & THE CONSTRUCTION REGULATIONS.

THE MAIN CONTRACTOR IS TO ENSURE THAT A COMPETENT PERSON, APPROVED BY THE SOUTH AFRICAN QUALIFICATION AUTHORITY SUPERVISES AND APPROVES ALL ASPECTS OF THE REQUIREMENTS OF THE OCCUPATIONAL HEALTH AND SAFETY ACT, LATEST REVISION.

ALL TEMPORARY WORKS TO BE DESIGNED, DETAILED, SUPERVISED AND CERTIFIED BY A COMPETANT PERSON OR PROFESSIONAL ENGINEER AS DEFINED IN THE OHS ACT.

NOTES

ROAD

Kerbing and Channeling

1. Kerbs and channels shall be precast units bedded in 15MPa concrete layer of 50mm minimum thickness.
2. Traffic-able V-channels shall be precast units bedded in 20MPa concrete layer of 100mm minimum thickness.
3. Precast kerbs shall have a continuous backing of 15Mpa.
4. Precast kerbs / channels shall have a 10mm max. grouted cement / sand mortar joint. Expansion joints shall be 12mm at max 10m c/c fillet with foamed polystyrene.
5. Transition kerbs shall be constructed of 25MPa concrete and shall have a steel float finish.
6. 300mm precast lengths shall be used on curves < 5.0m.
7. All precast kerbs shall comply with the provision of SABS 927.

Testing

1. Testing of roadworks shall be as specified in the relevant clauses of SABS 1200 :

Selected layer and fill	-	1200DM
Subbase	-	1200ME
Base	-	1200MF
Asphalt surfacing	-	1200MH

2. Compaction test to be done on every layer. The results to be approved by the engineer before commencing with the next layer.

ROAD SURFACING

Material Specifications - 80mm Heavy Duty Paved Road

1. Insitu layer - 150mm deep compacted to 93% MOD AASHTO density, (100% MOD AASHTO density for sand).
2. Selected Subgrade layer - 150mm G7 quality material compacted to 95% MOD AASHTO density
3. Subbase layer - 150mm G5 quality material compacted to 95% MOD AASHTO density.
4. Sub-base layer - 200mm Stabilized C4 (G5 quality natural gravel, not crushed rubble) compacted to 98% MOD AASHTO density.
5. Sub-base layer - 200mm Stabilized C4 (G5 quality natural gravel, not crushed rubble) compacted to 98% MOD AASHTO density,80mm Exposed aggregate interlocking paving block: 35MPa blocks which complies with the requirements of SABS 1058, on 20mm sand bedding.

Material Specifications - 50mm Lighty Duty Paved Walkways

1. Insitu layer - 150mm deep compacted to 93% MOD AASHTO density, (100% MOD AASHTO density for sand).
2. Selected Subgrade layer - 150mm G7 quality material compacted to 95% MOD AASHTO density
3. Sub-base layer - 150mm Stabilized C4 (G5 quality natural gravel, not crushed rubble) compacted to 95% MOD AASHTO density.
4. 50mm Exposed aggregate traditional paving block: 35MPa blocks which complies with the requirements of SABS 1058, on 20mm sand bedding.

Material Specifications - 40mm Heavy Duty Asphalt Road

1. Insitu layer - 150mm deep compacted to 93% MOD AASHTO density, (100% MOD AASHTO density for sand)
2. Selected Subgrade layer - 150mm G7 quality material compacted to 95% MOD AASHTO density
3. Subbase layer - 150mm stabilised C4 quality material compacted to 98% MOD AASHTO density,
4. Base layer -150mm G3 quality material compacted to 98% MOD AASHTO density,
5. Prime shall be one of the following :
   - Prime that complies with the requirements of SABS 748 or 749
   - MC-30 or MC-70 that complies with the requirements of SABS 308
5. Asphalt layer - 40mm continously graded medium grade

FOR INFORMATION

Rev	Description	Date	By	Approved
D	TENDER DESIGN	28/11/2024	H.P	H.PARUK
C	DETAILED DESIGN	13/09/2024	H.P	H.PARUK
B	PRELIMINARY DESIGN	02/08/2024	H.P	H.PARUK
A	CONCEPT DESIGN	22/12/2023	H.P	H.PARUK

	BY	DATE	SIGNATURE
DRAWN	H. PARUK	28/11/2024	
DESIGNED	H. PARUK	28/11/2024	
CHECKED	H. PARUK	28/11/2024	
APPROVED	H. PARUK	28/11/2024	

CONSULTANT

ARCHITECT

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PROJECT NAME

SAMORA MACHEL POLICE STATION

PROPOSED STORMWATER LAYOUT

PROJECT No.	SCALE:	SHEET SIZE:	SHEET
23023	AS SHOWN	A0	01 OF 01

DRAWING No. FEC-23023-STW-LAY-001

REVISION Rev D