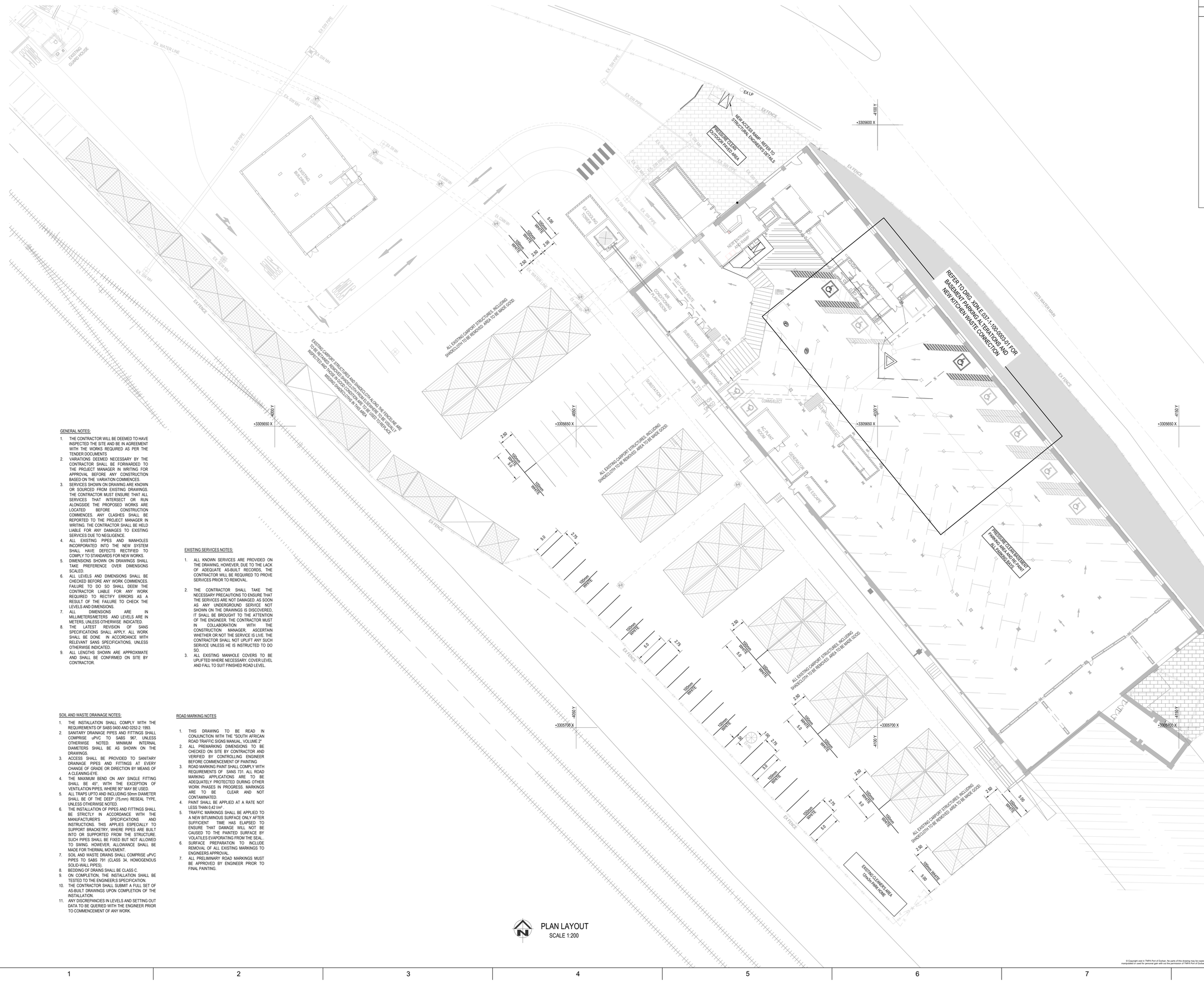

LEGEND - SERVICES

EXISTING	DESCRIPTION
EX. SW MH	STORMWATER MANHOLE/ PIPE
EX. SW MH	STORMWATER CATCHPIT/ PIPE
EX. SEW MH	SEWER MANHOLE/ PIPE
EX. COMM MH	COMMS MANHOLE/ CABLE
EX. EX.	EFFLUENT MANHOLE /PIPE
	RAIL LINE
C C C	CABLE DUCTS
E E E	ELECTRICAL DUCTS
	WATERMAIN
X X X	FENCE
	ASPHALT PAVING
	CONCRETE BLOCK PAVING

NOTE: THE CONTRACTOR IS TO DETERMINE BENCHMARKS DURING CONSTRUCTION

GENERAL NOTES:

1. THE CONTRACTOR WILL BE DEEMED TO HAVE INSPECTED THE SITE AND BE IN AGREEMENT WITH THE WORKS REQUIRED AS PER THE TENDER DOCUMENTS.
2. VARIATIONS DEEMED NECESSARY BY THE CONTRACTOR SHALL BE FORWARDED TO THE PROJECT MANAGER IN WRITING FOR APPROVAL BEFORE ANY CONSTRUCTION BASED ON THE VARIATION COMMENCES.
3. SERVICES SHOWN ON DRAWING ARE KNOWN OR SOURCED FROM EXISTING DRAWINGS. THE CONTRACTOR MUST ENSURE THAT ALL SERVICES THAT INTERSECT OR RUN ALONGSIDE THE PROPOSED WORKS ARE LOCATED BEFORE CONSTRUCTION COMMENCES. ANY CLASHES SHALL BE REPORTED TO THE PROJECT MANAGER IN WRITING. THE CONTRACTOR SHALL BE HELD LIABLE FOR ANY DAMAGES TO EXISTING SERVICES DUE TO NEGLIGENCE.
4. ALL EXISTING PIPES AND MANHOLES INCORPORATED INTO THE NEW SYSTEM SHALL HAVE DEFECTS RECTIFIED TO COMPLY TO STANDARDS FOR NEW WORKS.
5. DIMENSIONS SHOWN ON DRAWINGS SHALL TAKE PREFERENCE OVER DIMENSIONS SCALED.
6. ALL LEVELS AND DIMENSIONS SHALL BE CHECKED BEFORE ANY WORK COMMENCES. FAILURE TO DO SO SHALL DEEM THE CONTRACTOR LIABLE FOR ANY WORK REQUIRED TO RECTIFY ERRORS AS A RESULT OF THE FAILURE TO CHECK THE LEVELS AND DIMENSIONS.
7. ALL DIMENSIONS ARE IN MILLIMETERS/METERS AND LEVELS ARE IN METERS, UNLESS OTHERWISE INDICATED.
8. THE LATEST REVISION OF SANS SPECIFICATIONS SHALL APPLY. ALL WORK SHALL BE DONE IN ACCORDANCE WITH RELEVANT SANS SPECIFICATIONS, UNLESS OTHERWISE INDICATED.
9. ALL LENGTHS SHOWN ARE APPROXIMATE AND SHALL BE CONFIRMED ON SITE BY CONTRACTOR.

EXISTING SERVICES NOTES:

1. ALL KNOWN SERVICES ARE PROVIDED ON THE DRAWING, HOWEVER, DUE TO THE LACK OF ADEQUATE AS-BUILT RECORDS, THE CONTRACTOR WILL BE REQUIRED TO PROVE SERVICES PRIOR TO REMOVAL.
2. THE CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS TO ENSURE THAT THE SERVICES ARE NOT DAMAGED. AS SOON AS ANY UNDERGROUND SERVICE NOT SHOWN ON THE DRAWINGS IS DISCOVERED, IT SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER. THE CONTRACTOR MUST IN COLLABORATION WITH THE CONSTRUCTION MANAGER, ASCERTAIN WHETHER OR NOT THE SERVICE IS LIVE. THE CONTRACTOR SHALL NOT UPLIFT ANY SUCH SERVICE UNLESS HE IS INSTRUCTED TO DO SO.
3. ALL EXISTING MANHOLE COVERS TO BE UPLIFTED WHERE NECESSARY. COVER LEVEL AND FALL TO SUIT FINISHED ROAD LEVEL.

SOIL AND WASTE DRAINAGE NOTES:

1. THE INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF SABS 0400 AND 0252-2: 1993.
2. SANITARY DRAINAGE PIPES AND FITTINGS SHALL COMPRISE uPVC TO SABS 967, UNLESS OTHERWISE NOTED. MINIMUM INTERNAL DIAMETERS SHALL BE AS SHOWN ON THE DRAWINGS.
3. ACCESS SHALL BE PROVIDED TO SANITARY DRAINAGE PIPES AND FITTINGS AT EVERY CHANGE OF GRADE OR DIRECTION BY MEANS OF A CLEANING EYE.
4. THE MAXIMUM BEND ON ANY SINGLE FITTING SHALL BE 45°, WITH THE EXCEPTION OF VENTILATION PIPES, WHERE 90° MAY BE USED.
5. ALL TRAPS UPTO AND INCLUDING 50mm DIAMETER SHALL BE OF THE DEEP (75,mm) RESEAL TYPE, UNLESS OTHERWISE NOTED.
6. THE INSTALLATION OF PIPES AND FITTINGS SHALL BE STRICTLY IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND INSTRUCTIONS. THIS APPLIES ESPECIALLY TO SUPPORT BRACKETRY, WHERE PIPES ARE BUILT INTO OR SUPPORTED FROM THE STRUCTURE. SUCH PIPES SHALL BE FIXED BUT NOT ALLOWED TO SWING. HOWEVER, ALLOWANCE SHALL BE MADE FOR THERMAL MOVEMENT.
7. SOIL AND WASTE DRAINS SHALL COMPRISE uPVC PIPES TO SABS 791 (CLASS 34, HOMOGENOUS SOLID-WALL PIPES).
8. BEDDING OF DRAINS SHALL BE CLASS C.
9. ON COMPLETION, THE INSTALLATION SHALL BE TESTED TO THE ENGINEER.S SPECIFICATION.
10. THE CONTRACTOR SHALL SUBMIT A FULL SET OF AS-BUILT DRAWINGS UPON COMPLETION OF THE INSTALLATION.
11. ANY DISCREPANCIES IN LEVELS AND SETTING OUT DATA TO BE QUERIED WITH THE ENGINEER PRIOR TO COMMENCEMENT OF ANY WORK.

ROAD MARKING NOTES:

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH THE "SOUTH AFRICAN ROAD TRAFFIC SIGNS MANUAL, VOLUME 2"
2. ALL PREMARKING DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR AND VERIFIED BY CONTROLLING ENGINEER BEFORE COMMENCEMENT OF PAINTING
3. ROAD MARKING PAINT SHALL COMPLY WITH REQUIREMENTS OF SANS 731. ALL ROAD MARKING APPLICATIONS ARE TO BE ADEQUATELY PROTECTED DURING OTHER WORK PHASES IN PROGRESS. MARKINGS ARE TO BE CLEAR AND NOT CONTAMINATED.
4. PAINT SHALL BE APPLIED AT A RATE NOT LESS THAN 0,42 l/m².
5. TRAFFIC MARKINGS SHALL BE APPLIED TO A NEW BITUMINOUS SURFACE ONLY AFTER SUFFICIENT TIME HAS ELAPSED TO ENSURE THAT DAMAGE WILL NOT BE CAUSED TO THE PAINTED SURFACE BY VOLATILES EVAPORATING FROM THE SEAL..
6. SURFACE PREPARATION TO INCLUDE REMOVAL OF ALL EXISTING MARKINGS TO ENGINEERS APPROVAL.
7. ALL PRELIMINARY ROAD MARKINGS MUST BE APPROVED BY ENGINEER PRIOR TO FINAL PAINTING.

PLAN LAYOUT
SCALE 1:200

NO.	DESCRIPTION	BY	CHKD	APPD	DATE
OA	ISSUED FOR TENDER	NM	MT	NM	19.09.2025

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CONTRACTOR / CONSULTANT

TITLE	NAME	SIGN	DATE
DRAWN	.		. . .
CHECKED	.		. . .
DESIGNED	.		. . .
CHECKED			

PR.ENG. / PR.TECH./PR. ARCH

NAME	XX		DATE
SIGNATURE			. . .
REG. NUMBER	XX		
TITLE	XX		

TRANSNET NATIONAL PORTS AUTHORITY

TITLE	NAME	SIGN	DATE
DRAWN	NM		19 09 25
CHECKED	MT		25 09 25
DESIGNED	NM		19 09 25
CHECKED	MT		23 09 25

PR.ENG. / PR.TECH./PR. ARCH

NAME	NAADIYA MAHOMED		DATE
SIGNATURE			19 09 25
REG. NUMBER	202001101		
SCALE			

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PORT OF DURBAN

REFURBISHMENT TO QUEENS WAREHOUSE

EXTERNAL PARKING AREA

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