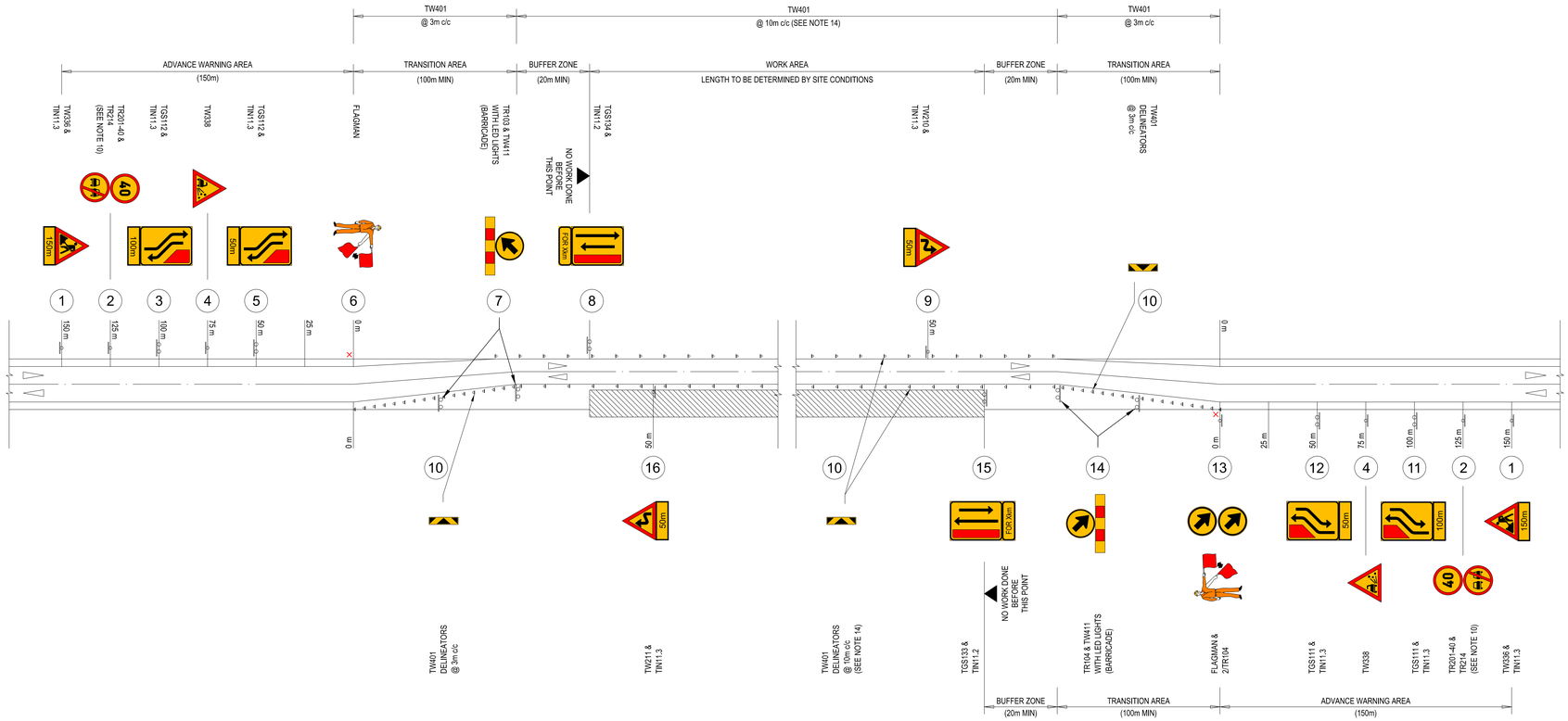


HALF-WIDTH CONSTRUCTION WITH TWO WAY TRAFFIC: INTERMEDIATE WORKS

NOT TO SCALE

NOTES:

1. TEMPORARY ROAD SIGN LAYOUTS SHOWN ON THIS DRAWING DEPICT THE TYPICAL IMPLEMENTATION OF ACCOMMODATION OF TRAFFIC.
2. ACTUAL ACCOMMODATION OF TRAFFIC PROPOSALS TO BE USED ON THE WORKS SHALL BE SUBMITTED TIMEOUSLY FOR THE ENGINEER'S APPROVAL. SUCH ROPOSALS SHALL TAKE DUE CONSIDERATION OF ACTUAL CONDITIONS ON THE ROAD. PARTICULAR ATTENTION MUST BE GIVEN TO ACCESSES AND INTERSECTIONS ON THE ROAD.
3. ALL ROAD SIGNS SHALL COMPLY WITH THE LATEST SADC ROAD TRAFFIC SIGNS MANUAL (RTSM), COLTO AND THE NATIONAL ROAD TRAFFIC ACT, WITH THE LATEST MODIFICATIONS PROMULGATED AS ROAD TRAFFIC REGULATIONS. ALL THE ROAD SIGNS USED FOR TRAFFIC ACCOMMODATION, SHALL BE NEW SIGNS.
4. TRAFFIC ACCOMMODATION PROPOSALS SHALL BE PREPARED TO THE LATEST GUIDELINES SET IN SARTSM VOL 2, CHAPTER 13 AND COMPLY WITH THE NATIONAL ROAD TRAFFIC REGULATIONS, 2000.
5. ROAD SIGN MATERIALS SHALL COMPLY WITH SANS 1519-1 AND SHALL BE CLASS III AS A MINIMUM. CONTRACTOR TO SUPPLY PROOF AND SAMPLE OF MATERIALS USED.
6. THE REVERSE SIDE OF TEMPORARY SIGNS SHALL BE MARKED WITH 150mm WIDE REFLECTIVE YELLOW STRIPES. AT LEAST 3 YELLOW STRIPES MUST BE APPLIED TO EACH SIGN.
7. MINIMUM SIZES OF ROAD SIGNS (UNLESS OTHERWISE INDICATED):
   - TRIANGULAR : 1500mm SIDE LENGTH
   - CIRCULAR : 1200mm DIAMETER
   - DIAGRAMMATIC (TGS) : 1200mm x 1600mm ON 80km/h OR LESS ROADS
     : 1800mm x 2400mm ON 100km/h AND 120 km/h ROADS
   - TIN11.X : 400mm HIGH, WIDTH TO FIT PRIMARY SIGN
   - TW407/408 : 1800mm x 600mm
   - TW411 : 2400mm x 400mm
8. DELINEATORS (TW401 / TW402) SHOULD BE SO POSITIONED THAT ENCROACHMENT ON THE ADJACENT RUNNING LANE IS AVOIDED AS FAR AS POSSIBLE. WHENEVER DELINEATOR SIGNS ARE POSITIONED NEXT TO AN EXCAVATION EXCEEDING 0.5m IN DEPTH A LONGITUDINAL BUFFER ZONE EQUALLING THE DEPTH OF EXCAVATION SHOULD BE PROVIDED BETWEEN THE EDGE AND THE TRAVELLED ROADWAY. A NARROWER BUFFER MAY BE CONSIDERED BY THE ENGINEER, SHOULD ADDITIONAL PRECAUTIONARY MEASURES SUCH AS CONCRETE BARRIERS, BE IMPLEMENTED.
9. ALL DELINEATORS (TW401 / TW402) SHALL BE MANUFACTURED FROM A FLEXIBLE MATERIAL AND MUST COMPLY WITH SANS 1555. THE MINIMUM NOMINAL SIZE OF DELINEATORS SHALL BE 200mm x 800mm BUT MAY BE INCREASED. THE SIGN FACE OF DELINEATORS SHALL BE CLASS III RETRO-REFLECTIVE FOR THE YELLOW MATERIAL, REBOUNDABLE DELINEATORS ARE ALSO ACCEPTABLE.
10. THE SPEED LIMIT IN THE WORK AREA SHALL BE SET AT A REALISTIC LEVEL. IN AREAS WHERE TRANSITION TAKES PLACE THE SPEED LIMIT MAY BE REDUCED LOCALLY AND THEN BE REVISED WHERE TRAFFIC FLOW CONDITIONS HAS STABILIZED AT MORE UNIFORM LEVELS.
11. WHEN EXISTING ROAD MARKINGS MUST BE REMOVED TEMPORARILY, IT MUST BE DONE BY MEANS OF SAND BLASTING OR WATER JETTING. OVERPAINTING SHALL NOT BE ALLOWED.
12. TEMPORARY ROAD MARKINGS SHALL COMPLY WITH SANS 731-2 AND MUST BE REFLECTORISED BY ADDING GLASS BEADS.
13. ROAD MARKINGS REMOVED DURING THE CONSTRUCTION, MUST BE REINSTATED AFTER COMPLETION OF THE WORKS AND SHALL COMPLY WITH THE PROJECT'S SPECIFICATIONS.
14. DELINEATOR SPACING TO BE REDUCED ACCORDING TO SITE CONDITIONS, ESPECIALLY AT THE ACTIVE WORK AREA.
15. NUMBER OF DELINEATORS MUST BE CALCULATED ONCE THE CONSTRUCTION LENGTHS HAVE BEEN DETERMINE. THE REQUIRED QUANTITY MUST BE DOUBLED TO ALLOW FOR REPLACEMENT OF DAMAGED DELINEATORS.
16. EXISTING ROAD MARKINGS WHICH ARE IN CONFLICT WITH THE ACCOMMODATION OF TRAFFIC LAYOUT MUST BE REMOVED AND REINSTATED ONCE THE ACCOMMODATION OF TRAFFIC HAS BEEN TERMINATED.
17. ALL TEMPORARY ROAD MARKINGS CAN BE APPLIED WITH WATER-BASED PAINT.
18. TEMPORARY WARNING SIGN TW327 ONLY APPLICABLE AT TEMPORARY OR PARTLY CONSTRUCTED STRUCTURES.
19. TR103 AND TR104 SIGNS MUST BE REPLACED BY LED SIGNS FOR NIGHT TIME CLOSURES.

INSTALLATION INVENTORY

SIGN	SIGN FACE	CODE	SIZE (mm)	QUANTITY	MATERIAL
1		TW336 & TIN11.3	1500 1500 x 400	2	CLASS III YELLOW
2		TR201-40 & TR214	1200Ø	2	CLASS III YELLOW
3		TGS112 & TIN11.3	1200 x 1600 1200 x 400	1	CLASS III YELLOW
4		TW338	1500	2	CLASS III YELLOW
5		TGS112 & TIN11.3	1200 x 1600 1200 x 400	1	CLASS III YELLOW
6		FLAGMAN	600 x 600 FLUORESCENT RED-ORANGE FLAG	2	LEVEL 3 CLOTHING AND FLUORESCENT-COLOURED HELMET

INSTALLATION INVENTORY

SIGN	SIGN FACE	CODE	SIZE (mm)	QUANTITY	MATERIAL
7		TR103 & TW411	1200Ø 2400 x 400	2	CLASS III YELLOW WITH LED LIGHTS (FOR NIGHT TIME)
8		TGS134 & TIN11.3	1200 x1600 1200 x 400	AS PER SITE CONDITIONS	CLASS III YELLOW
9		TW210 & TIN11.3	1500 1500 x 400	1	CLASS III YELLOW
10		TW401	200 x 800	AS PER SITE CONDITIONS	CLASS III SANS 1555
11		TGS111 & TIN11.3	1200 x1600 1200 x 400	1	CLASS III YELLOW
12		TGS111 & TIN11.3	1200 x1600 1200 x 400	1	CLASS III YELLOW

INSTALLATION INVENTORY

SIGN	SIGN FACE	CODE	SIZE (mm)	QUANTITY	MATERIAL
13		TR104 x 2	1200Ø	1	CLASS III YELLOW
14		TR104 & TW411	1200Ø 2400 x 400	2	CLASS III YELLOW WITH LED LIGHTS (FOR NIGHT TIME)
15		TGS133 & TIN11.3	1200 x1600 1200 x 400	AS PER SITE CONDITIONS	CLASS III YELLOW
16		TW211 & TIN11.3	1500 1500 x 400	1	CLASS III YELLOW

NOTES

1. DO NOT SCALE DRAWING - ONLY DIMENSIONS SHOWN TO BE USED.
2. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS, DIMENSIONS AND LEVELS ON THE SITE AND NOTIFY THE NEC SUPERVISOR OF ANY VARIATIONS BEFORE CONSTRUCTION.
3. ALL LEVELS ARE IN METERS TO MEAN SEA LEVEL.
4. DRAWINGS MUST BE READ IN CONJUNCTION WITH PROJECT SPECIFICATIONS AND GENERAL NOTES DRAWINGS.
5. IF APPLICABLE, DRAWINGS SHALL BE READ IN CONJUNCTION WITH ARCHITECT'S DRAWINGS AND ANY DISCREPANCIES TO BE REPORTED TO THE ENGINEER.

LOCALITY



LEGEND

SYMBOL	DESCRIPTION

NO.	DESCRIPTION	BY	CHKD	APPD	DATE
E1	FOR TENDER	CL	AL	HVDM	18/07/2025

REVISIONS

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ZUTARI
IMPACT. ENGINEERED.

CONTRACTOR / CONSULTANT

TITLE	NAME	SIGN	DATE
DRAWN	N. VILAKAZI		18 / 07 / '25
CHECKED	C. LINDE		18 / 07 / '25
DESIGNED	C. LINDE		18 / 07 / '25
CHECKED	H. VAN DER MERWE		18 / 07 / '25

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

NAME	H. VAN DER MERWE	DATE
SIGNATURE		
REG. NUMBER	20120065	
TITLE	PR. TECH ENG	

TRANSNET NATIONAL PORTS AUTHORITY

TITLE	NAME	SIGN	DATE
DRAWN			
CHECKED			
DESIGNED			
CHECKED			

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

NAME		DATE
SIGNATURE		
REG. NUMBER		
SCALE	AS SHOWN	

TRANSNET

Transnet National Ports Authority

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PROJECT / AREA / ASSET / SUBJECT/DRAWING TITLE

PORT OF RICHARDS BAY

PORT ROADS REHABILITATION & UPGRADE (REPAIRS TO PORT ROADS)
HALF-WIDTH CLOSURE: TWO WAY TRAFFIC DETAILS

PAPER SIZE	TRANSNET DRW. NO.	REV.
A0	TBC	E1
	PROJECT DRG. NO.	REV.
	1006614-DRG-10-NW-CC-D002	T1