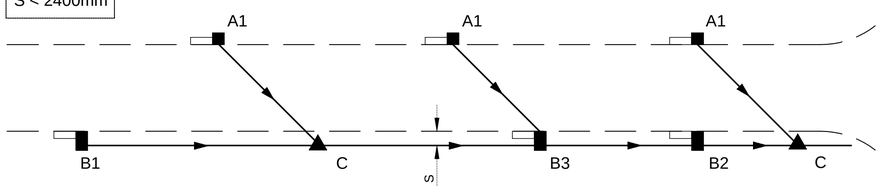
TYPICAL JUNCTION BOX CONFIGURATIONS

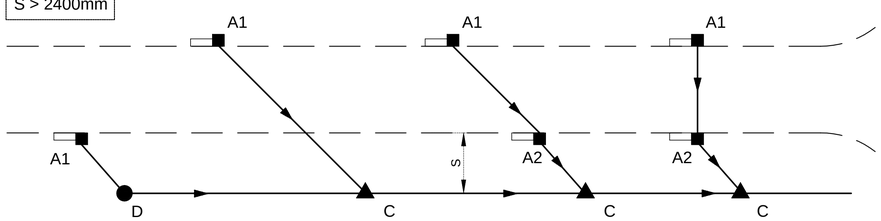
LEGEND:

- A– TYPE JUNCTION BOX TO CONNECT CATCHPIT WITH PIPES, SIZE: 900mm x 600mm
- B– TYPE JUNCTION BOX TO CONNECT CATCHPIT WITH PIPES, SIZE: 900mm x VARIES
- 1 CONNECTING 1 PIPE TO JUNCTION BOX AT CATCHPIT
- 2 CONNECTING 2 PIPES TO JUNCTION BOX AT CATCHPIT
- 3 CONNECTING 3 PIPES TO JUNCTION BOX AT CATCHPIT
- C– TYPE JUNCTION BOX CONNECTING 3 PIPES (NO CATCHPIT), SIZE VARIES
- D– TYPE JUNCTION BOX CONNECTING 2 PIPES (NO CATCHPIT), SIZE VARIES
- ROAD EDGE
- STORMWATER PIPE AND DIRECTION OF FLOW
- CATCHPIT
- S DISTANCE FROM ROAD EDGE TO FURTHEST WALL OF PIPE OF CULVERT

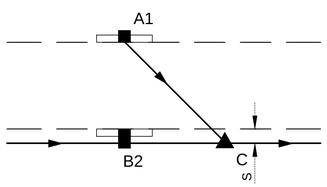
S < 2400mm



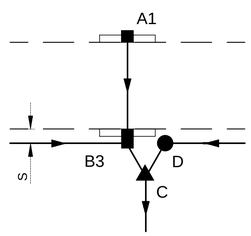
S > 2400mm



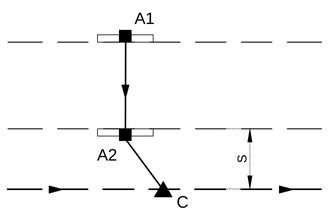
LOW POINT, S < 2400mm



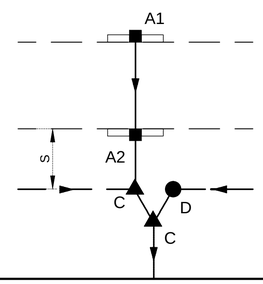
LOW POINT, S < 2400mm



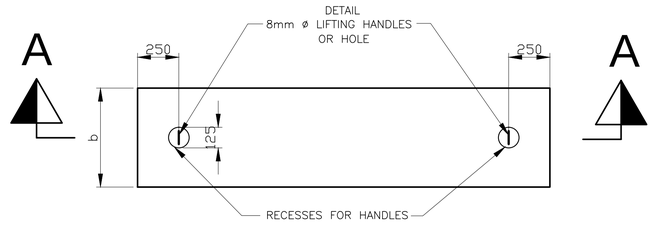
LOW POINT, S >2400mm



LOW POINT, S > 2400mm

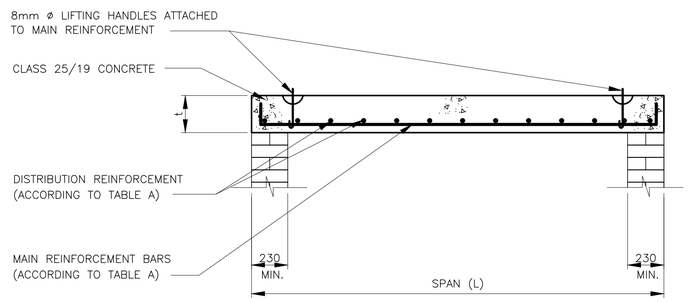


PRECAST COVER SLAB FOR JUNCTION BOXES



PLAN OF PRECAST COVER SLAB

SCALE 1: 20



SECTION A-A

SCALE 1: 20

TABLE A: PRECAST COVER SLAB REINFORCEMENT DETAILS

Span (mm) L	Thickness (mm) t	Main Reinforcement	
		b = 450	b = 600
Up to 500	125	4Y12 -125	5Y12 -125
Up to 1000	150	5Y12 -100	5Y12 - 125
Up to 1250	150	4Y16 -125	5Y12 - 125
Up to 1500	175	4Y 16 -125	5Y12 - 125
Up to 1750	175	4Y16 -125	5Y16 - 125
Up to 2000	200	4Y16 -125	5Y16 - 125
Up to 2250	200	4Y 16 -125	5Y16 - 125
Up to 2500	200	5Y16 -100	5Y16 - 125
Up to 2750	225	5Y16 -100	5Y16 - 125
Up to 3000	225	5Y16 -100	6Y16 - 125
Distribution reinforcement: Y10 bars @ 125 c/c for all spans			
Refer to notes for bending details.			

NOTES AND SPECIFICATIONS

1. JUNCTION BOX CONFIGURATION

1.1 Symbols used to indicate the junction box types are only for purposes of this drawing, and not applicable to working drawings.

2. PRECAST COVER SLABS

2.1 Concrete to be class 25/19 (25MPa)
2.2 Concrete to be cured for a minimum period of 7 days.
2.3 Minimum cover to reinforcement = 20mm
2.4 Lifting handles as specified or otherwise approved by the Engineer.
2.5 Reinforcement
i) Type, bar and spacing as specified in Table A.
ii) Main reinforcement to be shape code 38, with hook length (A dimension) not less than t - 60, except for slabs with a span not exceeding 1000mm, where no hooks are required and shape code 20 is used.
2.6 Also refer to section 502, 702, 703 and 704 of the Standard Specifications for Municipal Civil Engineering Works, 3rd Edition, 2005.

AMENDMENTS

NR.	DATE	APPROVED	DESCRIPTION	PAR.

DESIGNED
P. A. ODENDAAL Pr.Eng.
SIGNATURE DATE

DRAWN
S. AUDIE

DESIGN CHECKED BY
P. A. ODENDAAL Pr.Eng.
SIGNATURE DATE

INFRASTRUCTURE TECHNICAL INFORMATION MANAGEMENT
D.J. CHALMERS
SIGNATURE DATE

PROJECT STATUS

○ CONCEPT DRAWING ○ TENDER DRAWING ○ APPROVED FOR CONSTRUCTION DRAWING ○ AS BUILT DRAWING

PROJECT ENGINEER (CONSULTANT)
INITIALS AND SURNAME SIGNATURE AND Pr. No. DATE

INSPECTOR OF WORKS (CITY OF TSHWANE):
INITIALS AND SURNAME SIGNATURE AND Pr. No. DATE

CONSULTANT DETAIL

CITY OF TSHWANE
ROADS AND TRANSPORT DEPARTMENT

Mr P. I. Leftonkane
STRATEGIC EXECUTIVE DIRECTOR
P.O. BOX 1409
PRETORIA
0001

Ms. L. V. Kegakilwe-Piki
EXECUTIVE DIRECTOR
P.O. BOX 1409
PRETORIA
0001

DRAWING APPROVED BY EXECUTIVE DIRECTOR
Ms. L. V. Kegakilwe-Piki
SIGNATURE: DATE:

LOCATION OF PROJECT:

TYPICAL STANDARD DETAILS

DESCRIPTION OF PROJECT

JUNCTION BOX AND MANHOLE DETAILS

TYPICAL JUNCTION BOX CONFIGURATION AND COVER SLAB DETAIL

ROADS AND STORMWATER
For Internal Approval
RECEIVED
SIGN WHEN APPLICABLE
DIRECTOR: INFRASTRUCTURE PROVISION
SIGNATURE DATE
DIRECTOR: INFRASTRUCTURE CONSTRUCTION (PROJECT) MANAGEMENT
SIGNATURE DATE
DIRECTOR: INFRASTRUCTUREASSET MANAGEMENT
SIGNATURE DATE
DIRECTOR: TRANSPORT INFRASTRUCTURE PLANNING
SIGNATURE DATE
DIRECTOR: INTELLIGENT TRANSPORT SYSTEN AND TRAFFIC ENGINEERING ENGINEERING
SIGNATURE DATE
DIRECTOR: INFRASTRUCTURE MAINTENANCE MANAGEMENT (MM)
SIGNATURE DATE

0 10 20 40 60 80m
SCALE 1:1000

CONTRACT No. :
PROJECT No. :
DATE : MAY 2013
SCALE : AS SHOWN
ORIGINAL PAPER SIZE: A1
DRAWING NO. STD004
SHEET NO: 1 OF 7
REVISION 0