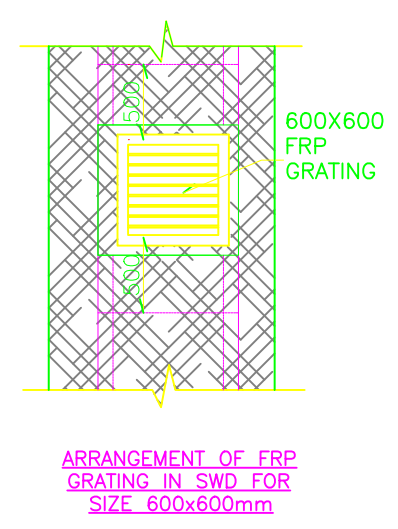
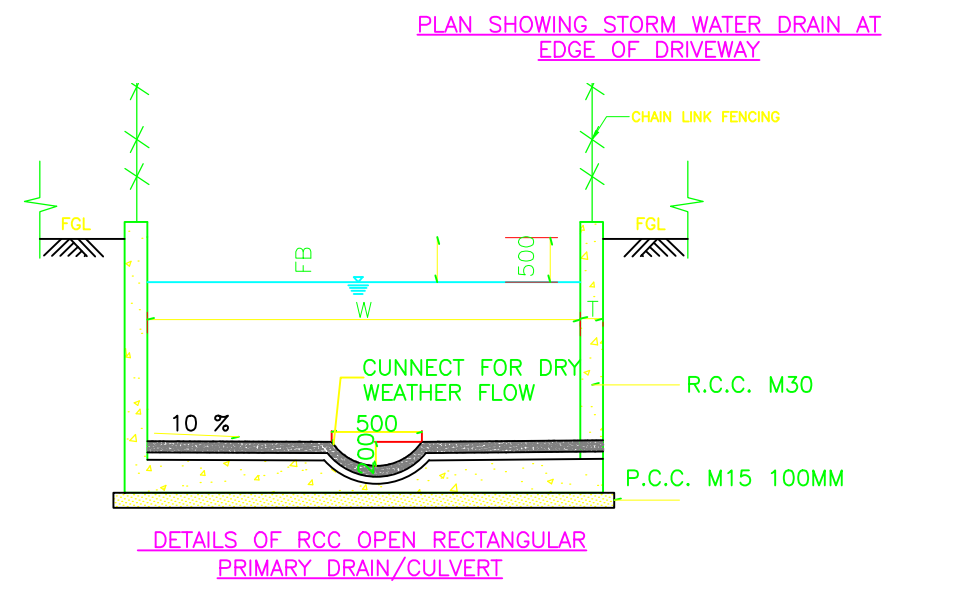


DRAIN SECTION DETAILS					
SR.NO.	DRAIN SPAN (m)	DEPTH OF DRAIN FROM GL TO IL (m)	WALL THK. (mm)	BOTTOM SLAB THK. (mm)	TOP SLAB THK. (mm)
1	UPTO 1.00	UPTO 1.00	200	200	200
	UPTO 1.00	1.00 TO 2.00	200	200	200
2	UPTO 1.00	2.00 TO 3.00	300	300	300
	1.00 TO 2.00	UPTO 1.00	300	300	300
		1.00 TO 2.00	300	300	300
3	2.00 TO 3.00	2.00 TO 3.00	300	300	300
		2.00 TO 3.00	400	400	400
		3.00 TO 4.00	400	400	400
4	3.00 TO 4.00	2.00 TO 3.00	400	400	400
		3.00 TO 4.00	500	500	500
		4.00 TO 5.00	500	500	500



- NOTES:**
- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
  - INLET GRATING FOR SURFACE RUNOFF SHALL BE PROVIDED AT INTERVAL OF 10M C/C. AND WHEREVER REQUIRED
  - ALL EARTH SURFACES UPON OR AGAINST WHICH CONCRETE IS TO BE PLACED SHALL BE WELL COMPACTED AND SHOULD BE FREE FROM STANDING WATER, MUD OR DEBRIS.
  - BACKFILLING SHALL BE DONE WITH APPROVED EXCAVATED EARTH BY HAND OR APPROVED MECHANICAL METHODS IN LAYERS NOT EXCEEDING 150MM THICKNESS AFTER COMPACTING, WETTED AND COMPACTED TO A DENSITY NOT LESS THAN 95% OF MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT OF THE SURROUNDING MATERIAL.
  - FOR DRAIN WIDTH UPTO 500 MM, GRATING SIZE SHALL BE 450X450MM CLEAR OPENING.
  - THE GRATING COVER WITH FRAME IS OF FRP MATERIAL WHERE INTERNAL SIZE OF COVER IS 450X450MM, 500X600MM, 600X600MM AND 600X900MM.

- LEGEND**
- TYP — TYPICAL
  - TS — TOP SLAB THK
  - BS — BOTTOM SLAB THK
  - T — WALL THK
  - W — WIDTH OF DRAIN
  - d — WATER DEPTH
  - FB — FREE BOARD
  - GL — GROUND LEVEL
  - FGL — FINISHED GROUND LEVEL
  - IL — INVERT LEVEL
  - THK — THICKNESS
  - FRP — FIBRE-REINFORCED PLASTIC
  - PCC — PLAIN CEMENT CONCRETE
  - RCC — REINFORCED CEMENT CONCRETE
  - C/C — CENTER TO CENTER
  - SWD — STORM WATER DRAIN


SIGN.										
P2										
ISSUE										
	DRN	DSN	CHD	CV	EL	IC	ME	PE/PM	APPD	DATE
				CLEARED						

**PURPOSE : ONLY FOR 'P' ISSUES**

**DO NOT SCALE**


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FILE NAME 10596A-CV-30140-P2




**RAIPUR SMART CITY LIMITED**  
RAIPUR, CHHATTISGARH

**TYPICAL DETAILS OF STORM WATER DRAINS**



**TATA CONSULTING ENGINEERS LIMITED**  
WADIA TECHNO-ENGINEERING SERVICES LIMITED  
MUMBAI



**WADIA**  
TECHNO-ENGINEERING SERVICES LIMITED

SCALE : NTS

DC & DISC: MUM-CV

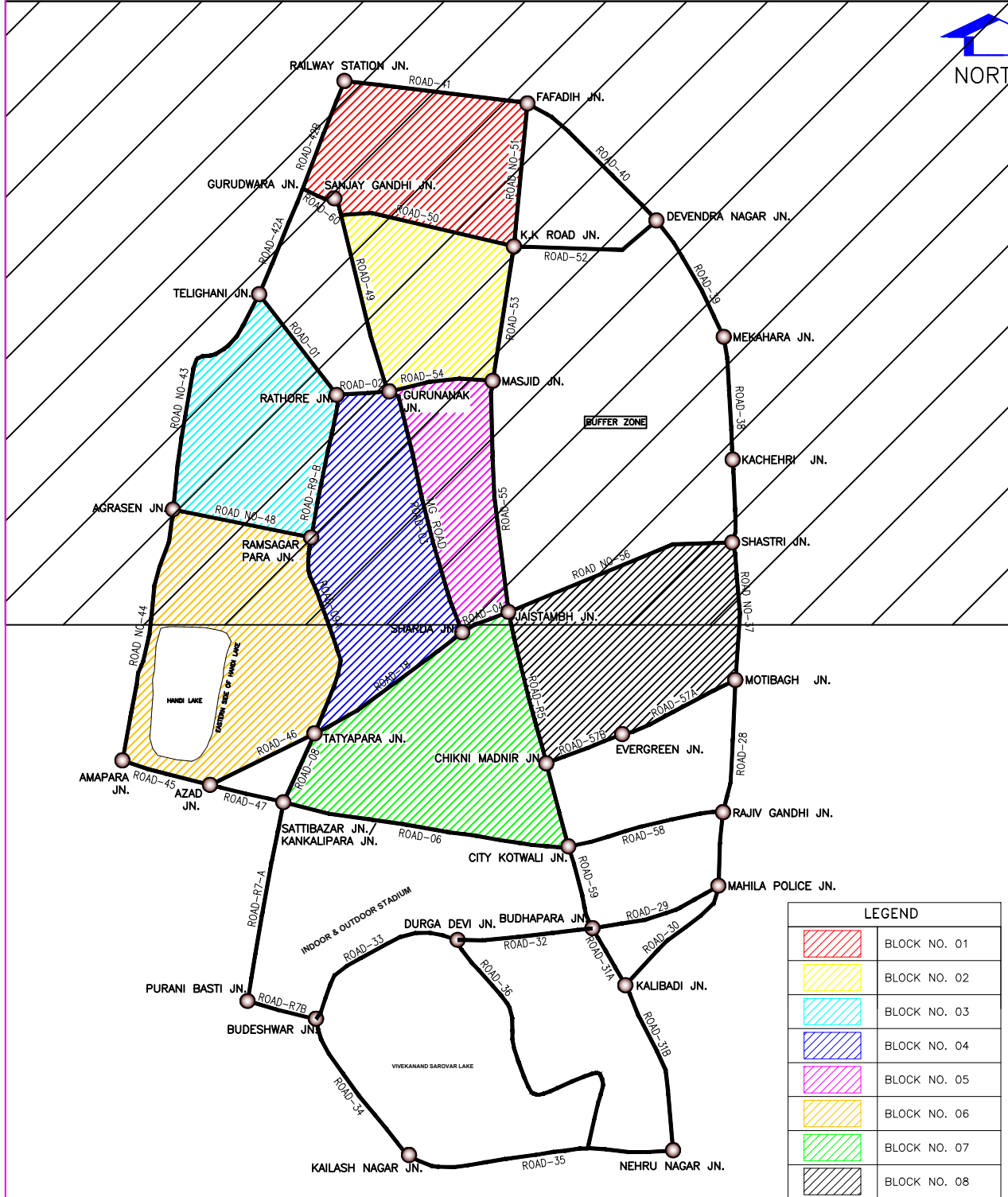
DWG NO. TCE.10596A-CV-3019-SW-30040

ISSUE P2

TCE FORM NO. 093 RO



- 1) ALL DIMENSION MILLIMETERS AND LEVELS ARE IN METERS.
- 2) DRAWING SHALL NOT BE SCALED FOR DIMENSION,  
ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.



SUMMARY OF TOTAL DRAIN LENGTH	
SMART ROADS PHASE-3	16.97 Km
SMART ROADS PHASE-2	07.35 KM
SMART ROADS PHASE-1	09.28 KM
INTERNAL ROADS PHASE-1	09.35 KM
MAJOR NALLAH	05.30 KM
OTHER INTERNAL ROAD DRAINS	40.26 KM
Total Drain Length	88.51 Km

[illegible]

**DO NOT SCALE**

'P' (PRELIMINARY) ISSUES ARE NOT TO BE USED FOR CONSTRUCTION / FABRICATION BUT ARE ISSUED FOR LIMITED PURPOSES ONLY AS INDICATED IN THE SMALL BLOCK ABOVE THIS BLOCK.

CONSTRUCTION / FABRICATION WORK IS PERMITTED ON (RELEASED) ISSUES ONLY.

INFORMATION CONTAINED WITHIN 'HOLD' IS NOT RELEASED FOR CONSTRUCTION / FABRICATION. FIELD MUST GET DESIGN OFFICE TO CLEAR 'HOLDS' IN TIME BEFORE PROCEEDING WITH ANY CONSTRUCTION / FABRICATION WORK RELATED TO 'HOLDS'.

TYPICAL DETAILS OF STORM WATER DRAIN  
IN ABD AREA  
(SHEET - 01 OF 02)

SCALE : NTS	DWG NO. T05-105004-01, T010, DWG. T0105
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C & DISC: MUM-CV	ICE: 10596A-CV-3019-SW-30105	PU
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