



TYPICAL SECTION OF STORM WATER DRAIN

- NOTES:-
- NO DIMENSIONS SHALL BE SCALED FROM THIS DRAWING. ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
 - GRADE OF CONCRETE SHALL BE AS FOLLOWS :-
ALL LEVELLING COURSE M15
DRAIN M30
 - REINFORCEMENT SHALL BE HYSD BARS OF GRADE DESIGNATION Fe-500 CONFORMING TO IS : 1786.
 - MINIMUM CLEAR COVER TO ANY REINFORCEMENT SHALL BE AS FOLLOWS :-
EARTH FACE 75 mm
NON EARTH FACE 45 mm
 - BACK FILLING FOR STORM WATER DRAIN SHALL CONFIRM TO SPECIFICATION APPENDIX-6 OF IRC : 78-2014.
 - WEEP HOLES OF 100 mm DIA SHALL BE PROVIDED AT 1000 mm C/C BOTH HORIZONTALLY & VERTICALLY IN A STAGGERED MANNER ABOVE 150mm FROM GL OR LWL WHICHEVER IS HIGHER.
 - 600mm THICK FILTER MEDIA SHALL BE PROVIDED BEHIND STORM WATER DRAIN AS PER IRC: 78-2014
 - 20mm EXPANSION GAP SHALL BE PROVIDED IN BETWEEN STORM WATER DRAIN FOR EVERY 30m LENGTH COMPRESSIBLE FILLER BOARD (BITUMEN PAD OR SHELTEX BOARD) SHALL BE PROVIDED IN EXPANSION GAP.
 - THE STORM WATER DRAINS ARE DESIGNED FOR A SAFE BEARING CAPACITY OF 120 kN/m² AND THE SAME SHALL BE ENSURED BEFORE EXECUTION.
 - LAPS IN REINFORCEMENT BARS SHALL BE AVOIDED AS FAR AS POSSIBLE. LAPS MAY BE PROVIDED, IF UNAVOIDABLE HOWEVER IN SUCH CASES :-
a) BASIC LAP LENGTH AS PER CLAUSE:-15.2.4, IRC : 112 - 2011, FOR Fe-500 STEEL AND M30 GRADE OF CONCRETE. (FOR LESS THAN 25% OF LAPPED BARS RELATIVE TO TOTAL CROSS SECTIONAL AREA.)

DIA. OF BAR	LAP LENGTH FOR FAVORABLE BOND CONDITION
8 mm	320 mm
10 mm	400 mm
12 mm	480 mm

FOR UNFAVORABLE BOND CONDITION THE ABOVE VALUES SHOULD BE MULTIPLIED BY COEFFICIENT OF 1.43 .

b) FOR INCREASE IN PERCENTAGE OF LAPPED BARS RELATIVE TO TOTAL CROSS SECTIONAL AREA THE ABOVE VALUES SHOULD BE FURTHER MULTIPLIED BY COEFFICIENT MENTIONED BELOW

PERCENTAGE OF LAPPED BARS RELATIVE TO TOTAL CROSS SECTIONAL AREAS	<25%	33%	50%
COEFFICIENT	1	1.15	1.40

c) NOT MORE THAN 50 % OF REINFORCING BARS SHALL BE LAPPED AT ANY LOCATION.

11. a,b (AS PER HYDRAULIC DESIGN WITH MINIMUM 1.2m x 1.2m)
c,d & e (AS PER STRUCTURAL DESIGN REQUIREMENT)
WILL VARY AS PER STRUCTURAL DESIGN REQUIREMENT.

*FOR STORM WATER DRAIN BELOW WATER TABLE, SAND TO BE REPLACED WITH GRANULAR SUB BASE (GSB) MATERIAL WITHOUT FINES.

DOES NOT CATER FOR TRAFFIC LOAD ON TOP OF THE DRAIN.

ISSUED FOR TENDER

Rev	Description	By	Verified	Date	Scales	Consultants	Client	Drawn	Project	Drawing Title	Drawing No	Rev
					NTS	<div><div> architects engineers & consultants pvt. ltd.</div><div> 贵州海上丝路国际投资有限公司 JV</div></div>	<div> Andhra Pradesh Amaravati Development Corporation Ltd. (ADCL)</div>	A.G.OPI	SMART INTEGRATED INFRASTRUCTURE MASTER PLAN AND DETAILED PROJECT REPORTS FOR PHASE-I INFRASTRUCTURE WORKS FOR/AT AMARAVATI CAPITAL CITY	TYPICAL SECTION OF STORM WATER DRAIN	AG-1957-SWD-STR-GAD-001	R0
		Checked GOVIND NAIK										
		Designed SIVA										
		Approved P.K.MURTHY										
					SCALES SHOWN ARE FOR AN A1 SIZE ORIGINAL DRAWING			Date 11-08-2017				