

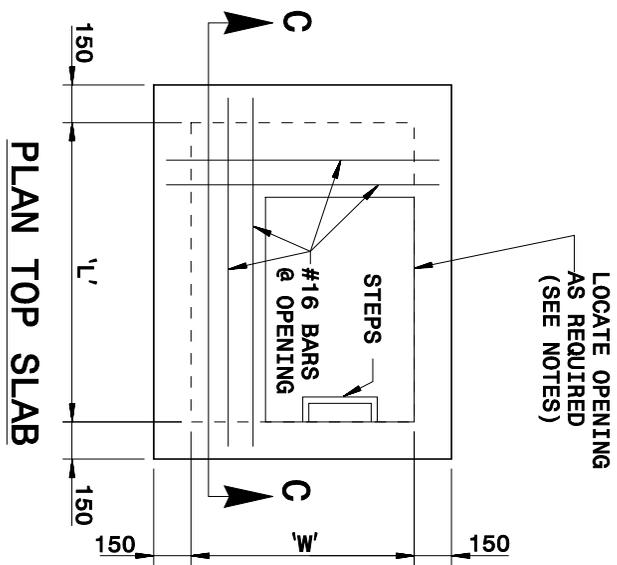
7-06

METRIC STANDARD DRAWING FOR
PRECAST DRAINAGE STRUCTURE
GENERAL NOTES AND DETAILS

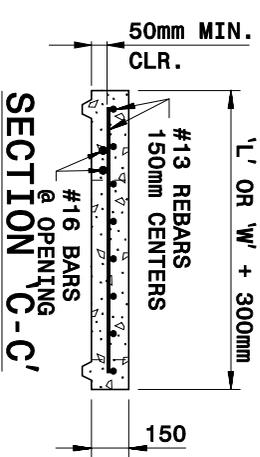
GENERAL NOTES:

- * THIS PRECAST BOX MAY BE USED FOR THE FOLLOWING STANDARDS: 840.01, 840.02, 840.04, 840.05, 840.11, 840.12, 840.14, 840.15, 840.17, 840.18, 840.19, 840.26, 840.27, 840.28, 840.31, 840.32 AND 840.41.
- * INSTALL AND PAY FOR PRECAST DRAINAGE STRUCTURES IN ACCORDANCE WITH SPECIFICATION SECTION 840.
- * DO NOT PLACE PRECAST DRAINAGE STRUCTURES UNDER TRAFFIC OR WHERE TRAFFIC WILL BE DETOURED.
- * USE 28 MPA CONCRETE THROUGHOUT.
- * USE REINFORCING STEEL IN ACCORDANCE WITH ASTM A615 FOR GRADE 400. USE WELDED WIRE FABRIC IN ACCORDANCE WITH ASTM A185.
- * MAXIMUM DEPTH TO TOP OF BOTTOM SLAB FOR WAFFLE WALL STRUCTURE IS 3.0m; SOLID WALL STRUCTURE IS 4.5m.
- * PLACE LIFT HOLES OR PINS IN ACCORDANCE WITH OSHA STANDARD 1926.704.
- * CUT OR FORM OPENINGS FOR PIPE TO PROVIDE REQUIRED SIZE AND LOCATION. ORIENT WAFFLE WALL STRUCTURES SO THAT PIPES ENTER THROUGH THE KNOCKOUT/WAFFLE PANELS ONLY. PIPES MAY ENTER THROUGH THE CORNERS OF SOLID WALL BOXES IF A MINIMUM OF 150mm OF WALL IS PROVIDED ABOVE THE HOLE. PRECAST ALL ELEMENTS TO MEET ASTM C913.
- * FRAME AND GRATE HEIGHT MAY BE ADJUSTED WITH CONCRETE OR BRICK IN ACCORDANCE WITH STANDARD 840.25.
- * PROVIDE PRECAST STRUCTURES OVER 1.2m IN DEPTH WITH STEPS AS DIRECTED BY THE ENGINEER.
- * WELDED WIRE FABRIC MAY BE SUBSTITUTED FOR REBAR AS LONG AS THE SAME AREA OF STEEL IS PROVIDED.
- * SEAL JOINTS WITH A FLEXIBLE BUTYL RUBBER BASE CONFORMING TO FEDERAL SPECIFICATION SS-S-21A, AASHTO M-198, TYPE B - BUTYL RUBBER.
- * MAXIMUM STRUCTURE SIZE LIMITED TO INSIDE CLEAR DIMENSIONS OF 1.5m X 1.5m.
- * MINIMUM STRUCTURE SIZE IS THE OUTSIDE PIPE DIAMETER ON A GIVEN SKEW PLUS 50mm OR THE OPENING REQUIRED FOR GRATE AND FRAME WHICHEVER IS GREATER.

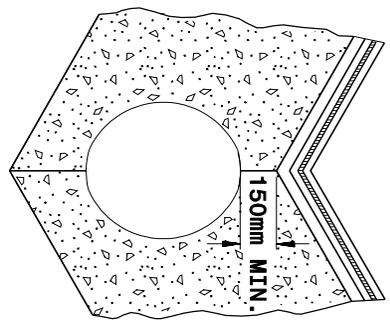
Note:
This drawing is dimensioned in millimeters unless otherwise depicted within the drawing.



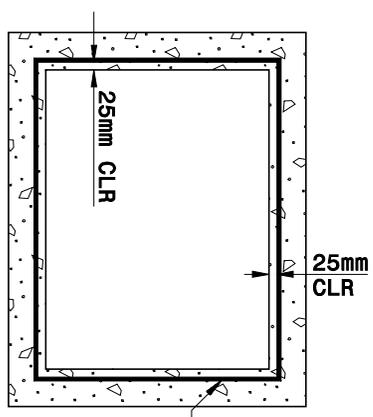
PLAN TOP SLAB



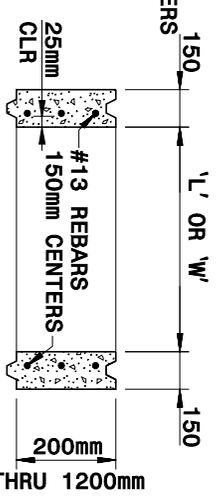
SECTION C-C'



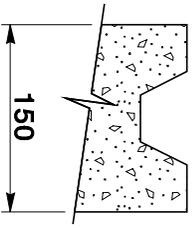
CORNER CUT DETAIL (SOLID WALL BOX)



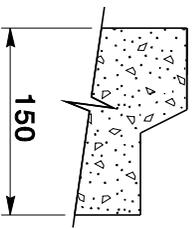
PRECAST RISER PLAN



PRECAST RISER DETAIL



SECTION VIEW



SECTION VIEW

OPTIONAL JOINT DETAILS

7-06