TITLE:

1. ALL PRE-CAST MANHOLES MUST CONFORM TOA.S.T.M.

- SET WITH NON-SHRINK GROUT, INSIDE AND OUT, FOR
- 4. FORM FLOW TROUGH IN PARTIALLY SET CONCRETE AND
- 6. BACKFILL AROUND MH. WITH SELECT NATIVE MATERIAL.
- 8. ALL JOINTS TO BE WATERTIGHT. METHODS TO BE CONSISTENT WITH SITE CONDITIONS.
- SAFETY PLATFORM SHALL BE INSTALLED.
- 10. MANHOLES TO MEET REQUIREMENTS OF MANHOLE DETAILS AND SPECIFICATIONS.
- 11. SAFETY STEPS TO BE PROVIDED, SPACED AT 400 MAX. FIRST STEP 150 MAX. BELOW FRAME, LAST STEP 300 MAX. ABOVE BASE.

TYPE 5A PRE-CAST MANHOLE DETAIL

PLAN

STANDARD DETAILS

SCALE: N.T.S.

DATE: SEPTEMBER 2010

STD. DWG NO.

6 - 100

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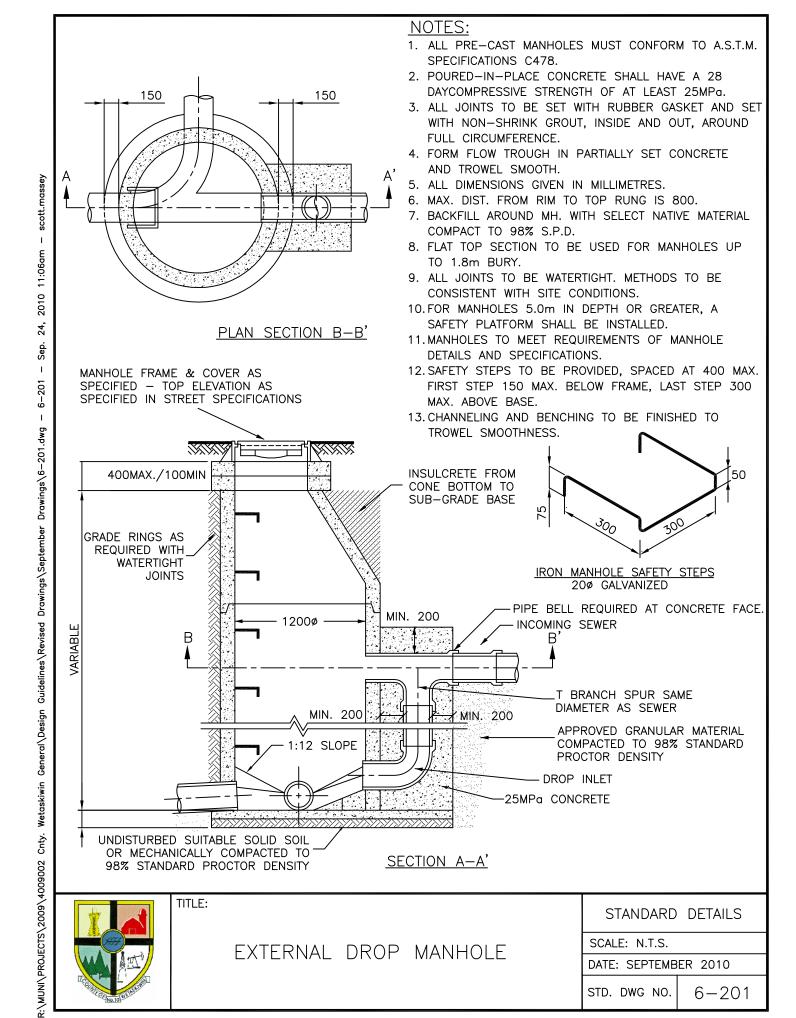
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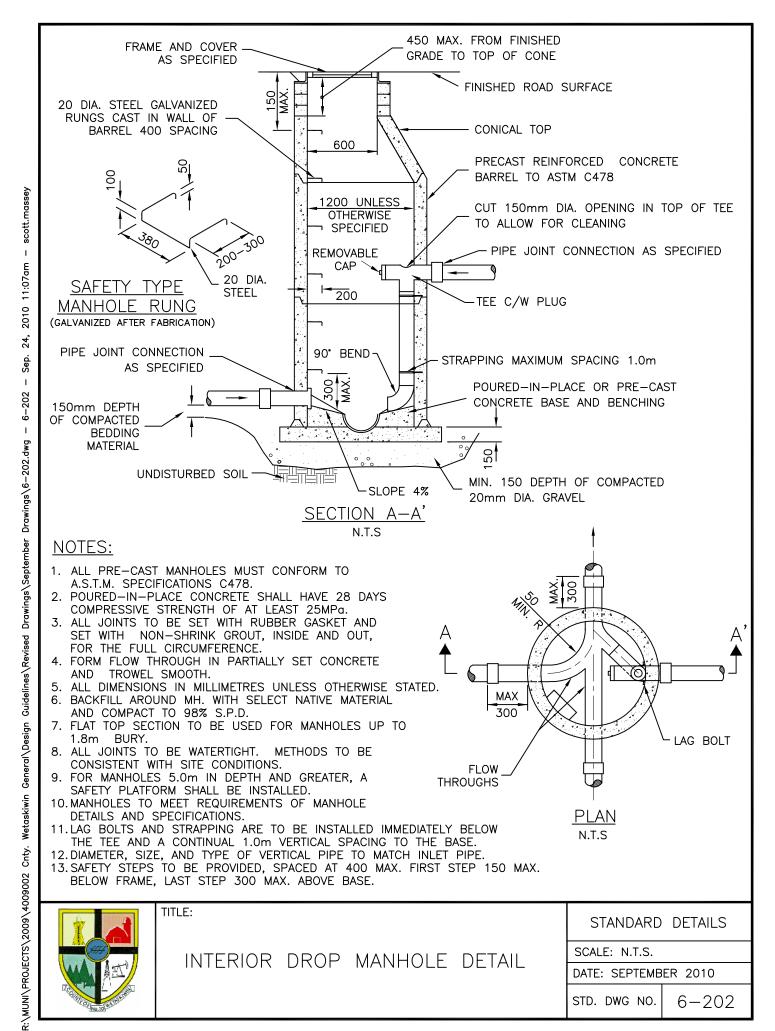
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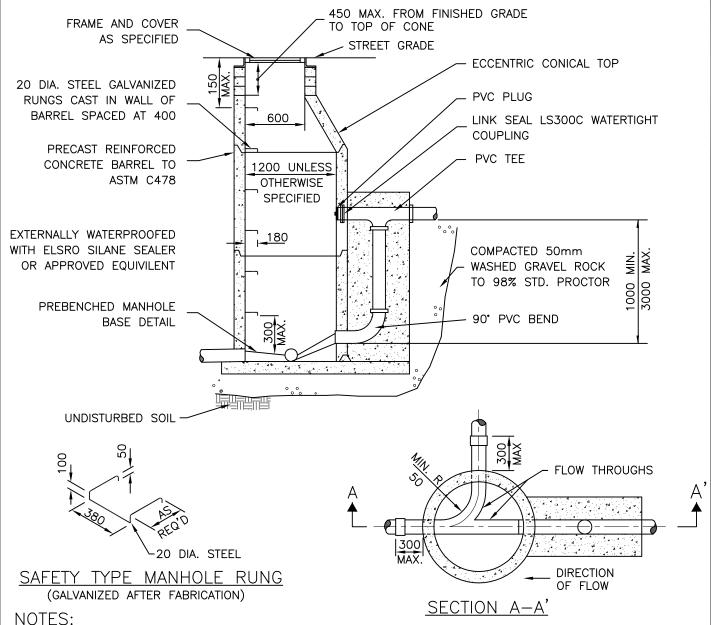
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Drawings\6-100.dwg









- 1. ALL PRE-CAST MANHOLES MUST CONFORM TO A.S.T.M. SPECIFICATIONS C478.
- 2. POURED-IN-PLACE CONCRETE SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH OF AT LEAST 25MPa.
- 3. ALL JOINTS TO BE SET WITH RUBBER GASKET AND SET WITH NON-SHRINK GROUT, INSIDE AND OUT, AROUND FULL CIRCUMFERENCE.
- 4. FORM FLOW TROUGH IN PARTIALLY SET CONCRETE AND TROWEL SMOOTH.
- 5. ALL DIMENSIONS IN MILLIMETRES.
- 6. BACKFILL AROUND MH. WITH SELECT NATIVE MATERIAL COMPACT TO 98% S.P.D.
- 7. FLAT TOP SECTION TO BE USED FOR MANHOLES UP TO 1.8m BURY.
- 8. ALL JOINTS TO BE WATERTIGHT. METHODS TO BE CONSISTENT WITH SITE CONDITIONS.
- 9. FOR MANHOLES 5.0m IN DEPTH OR GREATER, A SAFETY PLATFORM SHALL BE INSTALLED. SEE DETAIL

EXTERIOR DROP MANHOLE DETAIL

- 10. MANHOLES TO MEET REQUIREMENTS OF MANHOLE DETAILS AND SPECIFICATIONS.
- 11. SAFETY STEPS TO BE PROVIDED, SPACED AT 400 MAX. FIRST STEP 150 MAX. BELOW FRAME, LAST STEP 300 MAX. ABOVE BASE.
- 12 CHANNELING AND BENCHING TO BE FINISHED TO TROWEL SMOOTHNESS.



TITLE:

STANDARD DETAILS

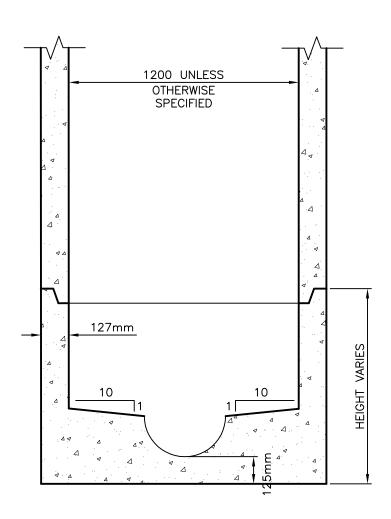
SCALE: N.T.S.

DATE: SEPTEMBER 2010

STD. DWG NO.

6 - 203

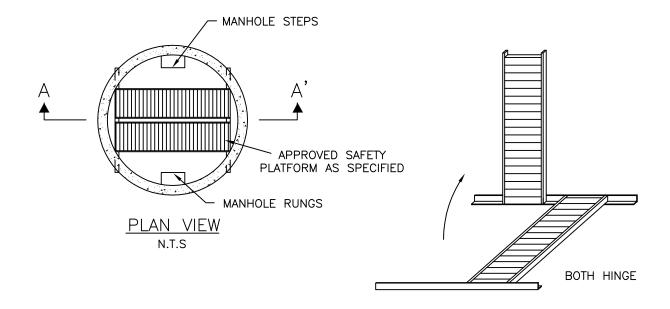


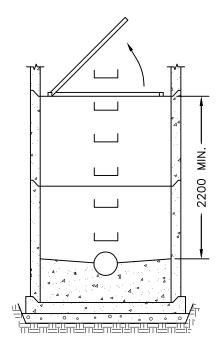


## **NOTES:**

- 1. PREBENCHED MANHOLE BASES AS SUPPLIED BY CONCRETE MANUFACTURER.
  2. SULPHATE RESISTANT CEMENT TO BE USED.
  3. PIPE PENETRATIONS THROUGH MANHOLE WALL TO BE MADE USING KOR—N—SEAL MANHOLE TO PIPE SEALS.

.E:	STANDARD DETAILS
PREBENCHED MANHOLE BASE	SCALE: N.T.S.
TREBENCITED WITHINGLE BITTSE	DATE: SEPTEMBER 2010
	STD. DWG NO. $6-300$





# SECTION A-A'

## **NOTES:**

- 1. TO BE INSTALLED ON MANHOLES GREATERTHAN 5.0m DEEP.
- 2. MAXIMUM SPACING BETWEEN PLATFORMS TO BE  $5.0 \, \mathrm{m}$ .
- 3. ALUMINUM GRATES TO BE MSU MISSISSAUGA OR APPROVED EQUAL.
- 4. TO BE INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.



TITLE:

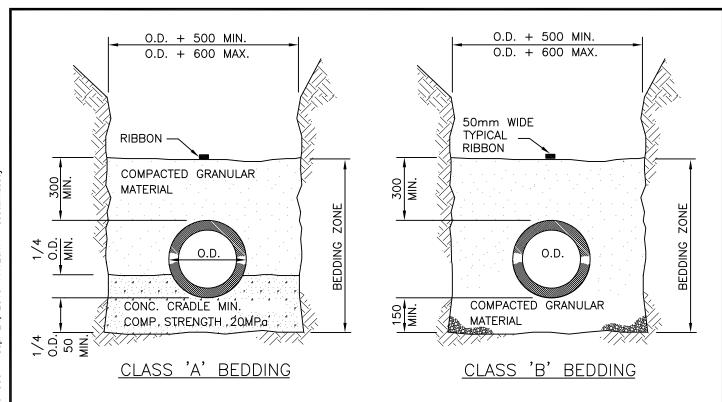
MANHOLE SAFETY PLATFORM

STANDARD DETAILS

SCALE: N.T.S.

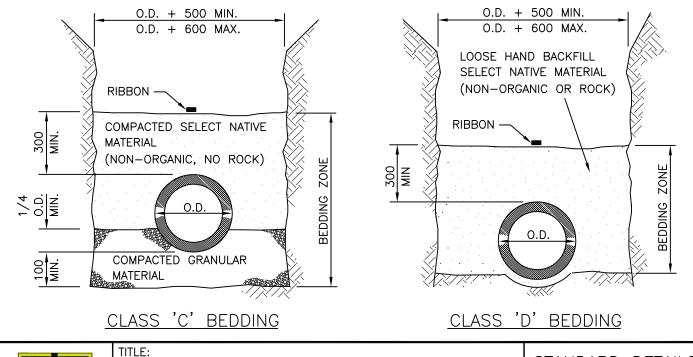
DATE: SEPTEMBER 2010

STD. DWG NO. |6-400|



### NOTES:

- 1. COMPACTION OF BEDDING ZONE SHALL BE AS PER SPECIFICATIONS. (MIN. 95% S.P.D.). TOP METRE MUST CONFORM TO SPECIFICATIONS (MIN 98% S.P.D.)
- 2. ALL DIMENSIONS ARE GIVEN IN MILLIMETRES UNLESS OTHERWISE STATED.
- 3. BACKFILL COMPACTION REQUIREMENTS WILL VARY. BACKFILL ABOVE PIPE ZONE TO BE APPROVED MATERIAL.
- 4. TRENCH SIDE SLOPES TO BE CONSISTENT WITH OCCUPATIONAL HEALTH AND SAFETY REQUIREMENTS.





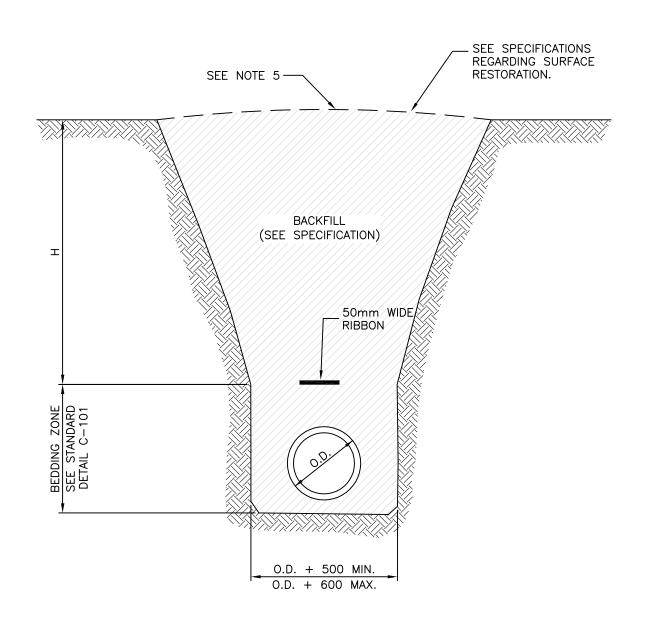
PIPE BEDDING DETAILS

STANDARD DETAILS

SCALE: N.T.S.

DATE: SEPTEMBER 2010

STD. DWG NO. 6-500



### **NOTES:**

TITLE:

- 1. WHEN CUT BACK SLOPES ARE TO BE USED IN LIEU OF CAGES AND SHORING, THESE SLOPES ARE TO MEET REQUIREMENTS OF LOCAL CODES.
- 2. SEE SPECIFICATIONS FOR MINIMUM COVER ABOVE PIPE.
- 3. MIN. PIPE ZONE WIDTH IS SPECIFIED TO ALLOW PROPER PIPE ZONE COMPACTION.
- 4. O.D. = OUTSIDE PIPE DIAMETER.
- 5. FOR UNCOMPACTED BACKFILL, CROWN TRENCH BY 0.1  $\times$  H.
- 6. RIBBON SHOULD BE PLACED ABOVE BURRIED PIPE AS PER DETAIL C-101.



TYPICAL TRENCH DETAIL

STANDARD DETAILS

SCALE: N.T.S.

DATE: SEPTEMBER 2010

STD. DWG NO.

6-600