

- GEOTEXTILE MAY BE USED TO STABILIZE THE TRENCH BOTTOM, IF DIRECTED BY THE ENGINEER. THE DESIGN ENGINEER IS RESPONSIBLE FOR VERIFYING SUBGRADE SUITABILITY
- B. GEOTEXTILE: A 4oz (136 g/m²) OR HEAVIER NON-WOVEN GEOTEXTILE FILTER FABRIC SHOULD BE USED FOR EMBEDMENT BACKFILL MATERIAL SIZED 3/4 - 1 ½ INCH(19 - 37 mm). A 6oz (203 g/m²) NON-WOVEN GEOTEXTILE FILTER FABRIC SHOULD BE USED FOR EMBEDMENT BACKFILL MATERIAL SIZED 1 1/2 - 2 INCH (38 - 50 mm). GEOTEXTILE FILTER FABRIC IS PLACED AROUND THE SYSTEM TO PREVENT NATIVE SOIL FROM MIGRATING INTO THE EMBEDMENT BACKFILL MATERIAL. TO ENSURE FABRIC IS SUITABLE WITH IN-SITU SOILS, A GEOTECHNICAL ENGINEER SHOULD BE CONSULTED.
- 1. FOUNDATION: SUITABLE MATERIAL SHALL BE A 3/4 2 INCH (19 50 mm), WASHED, CRUSHED ANGULAR STONE, OR AASHTO M43 SIZES (3, 357, 4, 467, 5, 56, 57) WITH WASHED, CRUSHED, ANGULAR STONE ADDED TO THE GRADATION, e.g., WASHED, CRUSHED, ANGULAR #3 (AASHTO M43) STONE. MINIMUM FOUNDATION THICKNESS TO BE DETERMINED BY DESIGN ENGINEER. MINIMUM OF 9" (225 mm) RECOMMENDED. REFER TO

  9. MAXIMUM COVER: A COVER HEIGHT OF OVER 8 FEET (2.44 m) IS NOT RECOMMENDED. PRINSCO DESIGN MANUAL FOR ADDITIONAL GUIDANCE. COMPACTION SHOULD BE DONE IN LIFTS OF NO MORE THAN 9 INCHES (225 mm) TO A DENSITY OF 95% STANDARD PROCTOR DENSITY.
- . EMBEDMENT BACKFILL: SUITABLE MATERIAL SHALL BE A 3/4 2 INCH (19 50 mm), WASHED, CRUSHED ANGULAR STONE, OR AASHTO M43 SIZES (3, 357, 4, 467, 5, 56, 57) WITH WASHED, CRUSHED, ANGULAR STONE ADDED TO THE GRADATION, e.g., WASHED, CRUSHED, ANGULAR #3 (AASHTO M43) STONE. EMBEDMENT BACKFILL SHALL EXTEND FROM TOP OF FOUNDATION TO NOT LESS THAN 12 INCHES (300 mm) ABOVE THE TOP OF THE CHAMBER. NO COMPACTION IS REQUIRED BUT AN EFFORT SHOULD BE MADE TO HAND KNIFE STONE IN BETWEEN ALL CORRUGATIONS

THIS DETAIL DEPICTS RECOMMENDED INSTALLATION PRACTICES. AND IS NOT INTENDED TO SUPERSEDE ANY NATIONAL, STATE OR LOCAL SPECIFICATIONS. PRINSCO BEARS NO RESPONSIBILITY FOR ANY ALTERATIONS, REVISION AND/OR DEVIATION FROM THIS STANDARD DETAIL. PRINSCO HAS NOT

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THAN 23.5 INCHES (590 mm) ABOVE THE TOP OF THE CHAMBER. COMPACT TO A MINIMUM OF 95% STANDARD PROCTOR DENSITY.

. FINAL BACKFILL: SUITABLE MATERIALS SHALL BE ANY SOIL DIRECTED BY THE ENGINEER. FINAL BACKFILL SHALL EXTEND FROM TOP OF INITAL BACKFILL TO NO MORE THAN 8 FEET (2.4 m) ABOVE THE TOP OF THE CHAMBER. COMPACTION LEVELS SHOULD FOLLOW ENGINEERS RECOMMENDATIONS. 8. MINIMUM COVER: FOR TRAFFIC APPLICATIONS A MINIMUM COVER OF 23.5 INCHES (590 mm) IS REQUIRED, MEASURED FROM THE TOP OF THE CHAMBER TO THE BOTTOM OF THE

FLEXIBLE PAVEMENT. FOR UNPAVED INSTALLATIONS WHERE RUTTING MAY OCCUR,

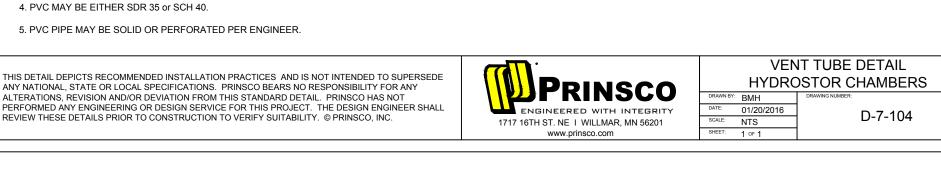
INCREASE COVER TO 30 INCHES (750 mm) FOR H-20 LOADING. ADDITIONAL COVER MAY

BE REQUIRED FOR CONSTRUCTION LOADS. COVER HEIGHT IS MEASURED FROM THE TOP OF THE CHAMBER TO THE TOP OF THE

10. LOAD RATING: HS180 CHAMBERS ARE TRAFFIC RATED FOR H-20 VEHICLES WITH ADDITIONAL CONSIDERATION FOR LANE LOADING, COMMONLY REFERRED TO AS HL-93 LOAD RATING (AASHTO DESIGN TRUCK).

TYPICAL CROSS SECTION HYDROSTOR HS180 CHAMBER NGINEERED WITH INTEGRITY D-7-200 1717 16TH ST. NE | WILLMAR, MN 56201

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1. A 4" (100 mm) VENT TUBE MAY BE CONNECTED THROUGH ANY CHAMBER

CORRUGATION VALLEY (HS180) CHAMBER CIRCULAR CUT OUT POINT (HS75).

**Chamber Specifications** 

Chamber Size (L x W x H)

Installed Length

Chamber Storage

Min. Installed Storage\*

Weight / Chamber

Chambers / Pallet

Approx. Weight / Pallet

— 77.8" (1,967 mm) —

**End Cap Specifications** 

End Cap Size (L x W x H)

Installed Length

End Cap Storage

Min. Installed Storage\*

Weight / End Cap

26.2" x 76.4" x 44.6"

(665 x 1,941 x 1,133 mm)

21.7" (551 mm)

19.0 ft<sup>3</sup> (0.54 m<sup>3</sup>)

48.0 ft<sup>3</sup> (1.36 m<sup>3</sup>)

65 lbs (29.48 kg)

\*Assumes 12" (300 mm) stone above chambers/end caps, 9" (225 mm) of stone for foundation, 8" (200 mm) of

stone between chambers/end caps, 6" (150 mm) of stone perimeter in front of end caps and 40% stone porosity.

88.7" x 77.8" x 45.5"

(2,253 x 1,967 x 1,156 mm

85.3" (2,167 mm) 113.6 ft<sup>3</sup> (3.22 m<sup>3</sup>)

180.0 ft<sup>3</sup> (5.10 m<sup>3</sup>)

127 lbs (57.6 kg)

17

2,400 lbs (1,090 kg)

(1,156 mm)

2. TAP TEE CONNECTION MAY CONSIST OF QWICKSEAL, INSERTA TEE OR

3. ALL PVC FITTINGS TO BE SOLVENT CEMENTED.

APPROVED EQUAL.

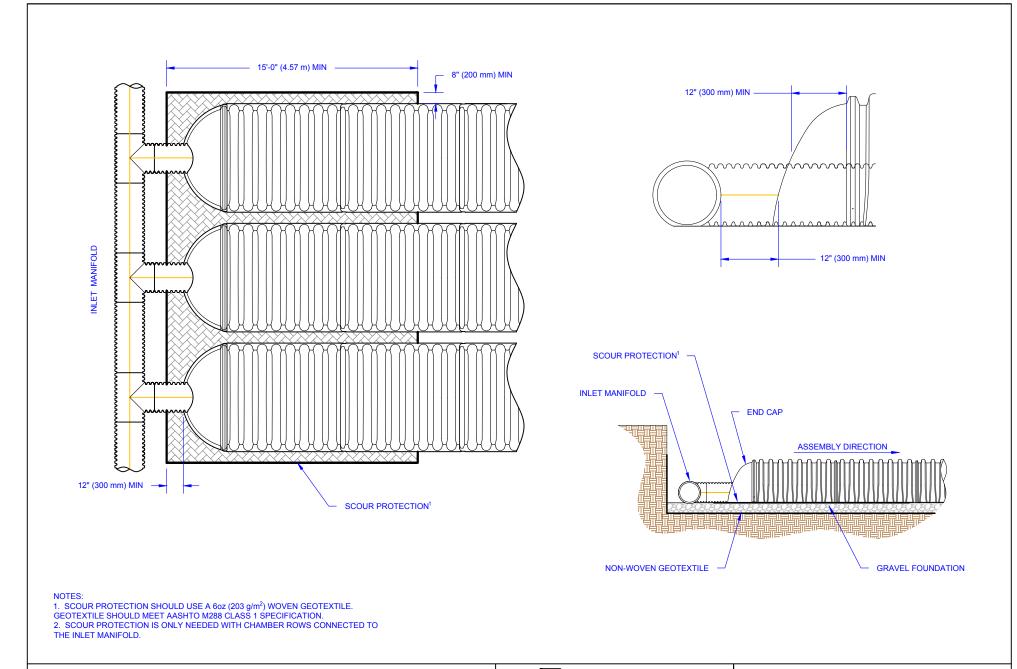
4" (100 mm) PVC VENT TUBE

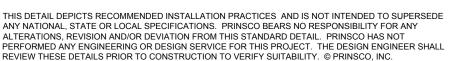
4" (100 mm) TAP TEE CONNECTION<sup>2</sup>

OR PVC COUPLER

PAVEMENT OR FINISHED GRADE

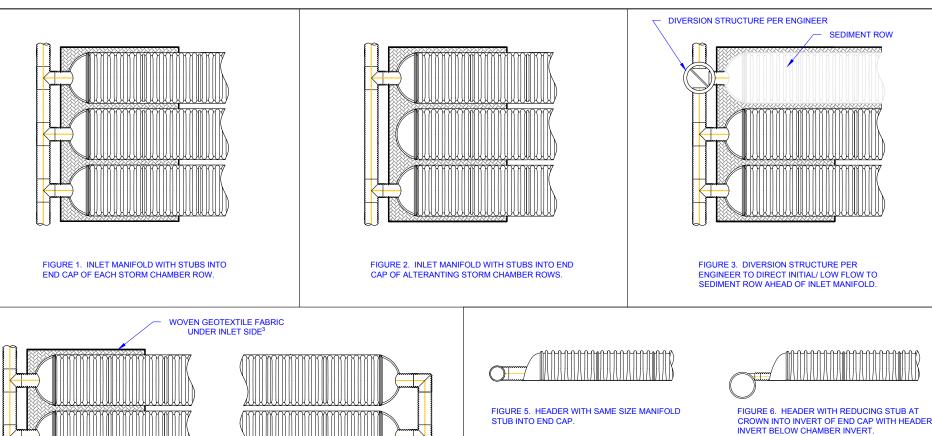
OPTIONAL VENT DETAIL

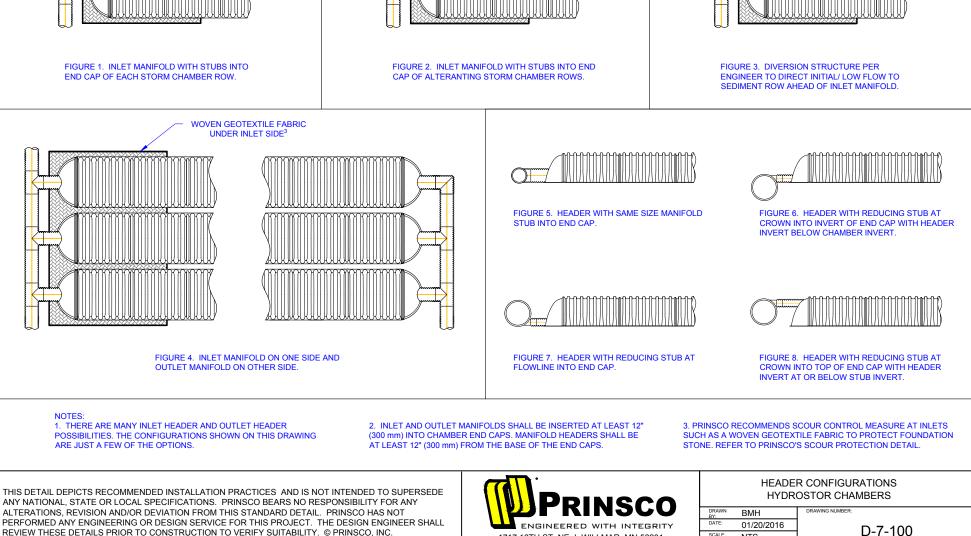




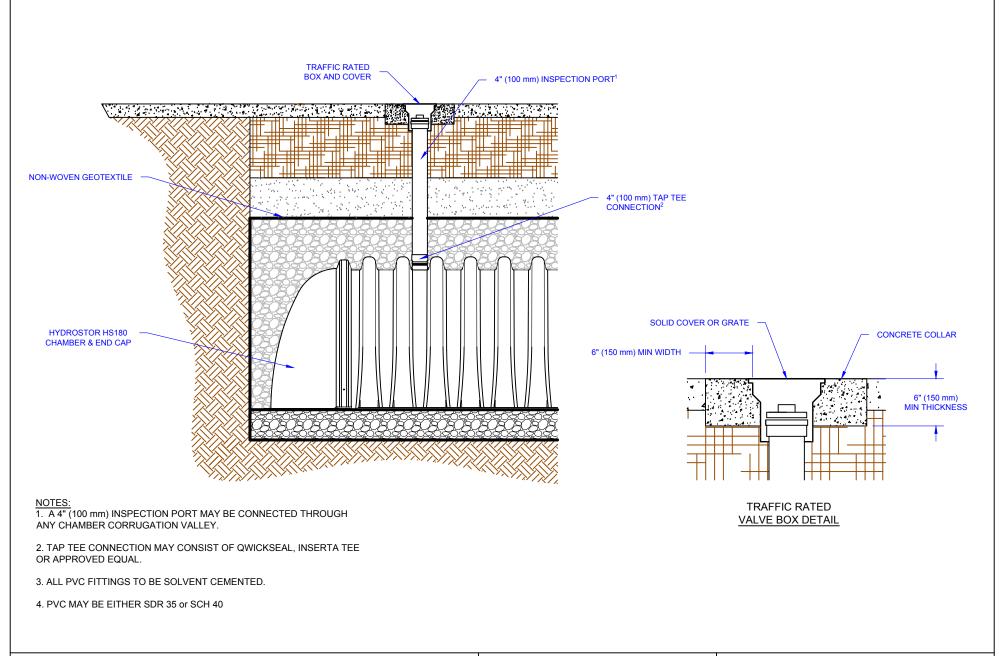
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1717 16TH ST. NE | WILLMAR, MN 56201





— 85.3" (2,167 mm) INSTALLED —

(1,133 mm)

— 76.4" (1,941 mm) —

(551 mm) INSTALLED

26.2" (665 mm)

- 88.7" (2,253 mm) —

