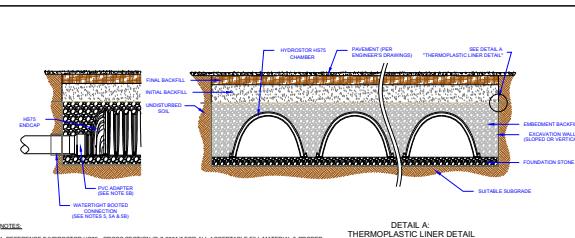


NOTES:

1. HYDROSTOR HS7 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F237 AND SHALL CONFORM TO THE REQUIREMENTS OF THIS SECTION. HS7 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S LATEST INSTALLATION GUIDELINES.
2. SUBGRADE: TRENCH BOTTOMS WITH INSTABILE OR UNLEVELING MATERIAL SHALL NOT EXPOSED TO A MAXIMUM DEPTH OF 12 INCHES (300 mm). IF EXPOSED, THE SITE DESIGN ENGINEER SHALL EXPOSED MATERIALS, GEOTEXTILE MAY BE USED TO STABILIZE THE TRENCH BOTTOM IF DIRECTED BY THE ENGINEER. THE DESIGNER SHALL DETERMINE THE APPROPRIATE GEOTEXTILE AND THE APPROPRIATE GEOTEXTILE FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
3. GEOTEXTILE: A 30 MIL (0.76 mm) THICK, 36 INCH (914 mm) WIDE, 100% POLYPROPYLENE GEOTEXTILE SHALL BE USED FOR EMBANKMENT BACKFILL 34 TO 12 INCH (191 to 305 mm) MSL. GEOTEXTILE FILTER FABRIC IS PLACED AROUND THE INLET MANIFOLD AND OUTLET MANIFOLD. GEOTEXTILE FILTER FABRIC IS PLACED AROUND THE INLET MANIFOLD AND OUTLET MANIFOLD. GEOTEXTILE FILTER FABRIC IS PLACED AROUND THE INLET MANIFOLD AND OUTLET MANIFOLD.
4. INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE A GRANULAR, WELL-GRANDED SOIL, WITH LESS THAN 30% FINES OR ASHTO M3 SIZES 3, 30, 4, 45, 5, 56, 6, 67, 7, 78, 8, 9, 10, MOST PAVEMENT SUBGRADE MATERIALS FALL WITHIN THIS GRADING CRITERIA. EXCAVATION HALL (GROUT OR VERTIC) SHALL NOT EXPOSED TO A MAXIMUM DEPTH OF 12 INCHES (300 mm) ABOVE THE TOP OF THE CHAMBER. COMPACT TO A MINIMUM OF 95%.
5. FINAL BACKFILL: SUITABLE MATERIALS SHALL BE ANY SOLIDIRECTED BY THE ENGINEER. THE DESIGNER SHALL DETERMINE THE APPROPRIATE GEOTEXTILE AND THE APPROPRIATE GEOTEXTILE FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
6. MINIMUM COVER: FOR TRAFFIC APPLICATIONS A MINIMUM COVER OF 10 INCHES (400 mm) IS RECOMMENDED. FOR NON-TRAFFIC APPLICATIONS A MINIMUM COVER OF 10 INCHES (400 mm) IS RECOMMENDED. THE DESIGNER SHALL DETERMINE THE APPROPRIATE GEOTEXTILE AND THE APPROPRIATE GEOTEXTILE FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
7. MAXIMUM COVER: A COVER HEIGHT OF OVER 2 FEET (24 in) IS NOT RECOMMENDED. THE DESIGNER SHALL DETERMINE THE APPROPRIATE GEOTEXTILE AND THE APPROPRIATE GEOTEXTILE FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
8. EMBANKMENT BACKFILL: SUITABLE MATERIAL SHALL BE A 34 TO 2 INCH (191 to 51 mm) CLEAN, CRUSHED, ANGULAR STONE, OR ASHTO M3 SIZES 3, 30, 4, 45, 5, 56, 6, 67, 7, 78, 8, 9, 10, MOST PAVEMENT SUBGRADE MATERIALS FALL WITHIN THIS GRADING CRITERIA. EXCAVATION HALL (GROUT OR VERTIC) SHALL NOT EXPOSED TO A MAXIMUM DEPTH OF 12 INCHES (300 mm) ABOVE THE TOP OF THE CHAMBER. COMPACT TO A MINIMUM OF 95%.
9. ANGULAR STONE, OR ASHTO M3 SIZES 3, 30, 4, 45, 5, 56, 6, 67, 7, 78, 8, 9, 10, MOST PAVEMENT SUBGRADE MATERIALS FALL WITHIN THIS GRADING CRITERIA. EXCAVATION HALL (GROUT OR VERTIC) SHALL NOT EXPOSED TO A MAXIMUM DEPTH OF 12 INCHES (300 mm) ABOVE THE TOP OF THE CHAMBER. COMPACT TO A MINIMUM OF 95%.
10. MAXIMUM RATING: HS7 CHAMBERS ARE TRAFFIC RATED FOR 20 VEHICLES WITH ADDITIONAL CONSIDERATION FOR LANE LOADING. COMMONLY REFERRED TO AS HL-40 LOAD RATING (ASHTO DESIGN TRUCK).

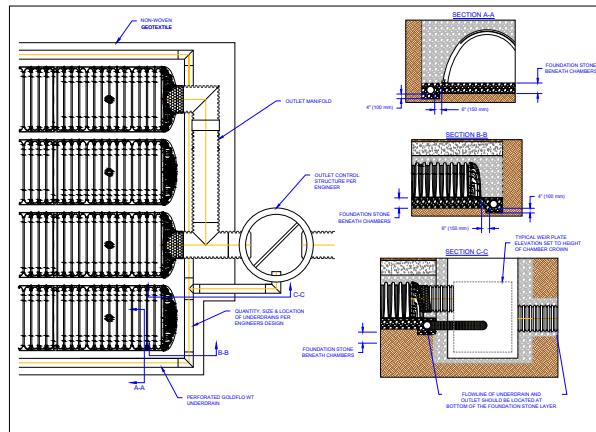
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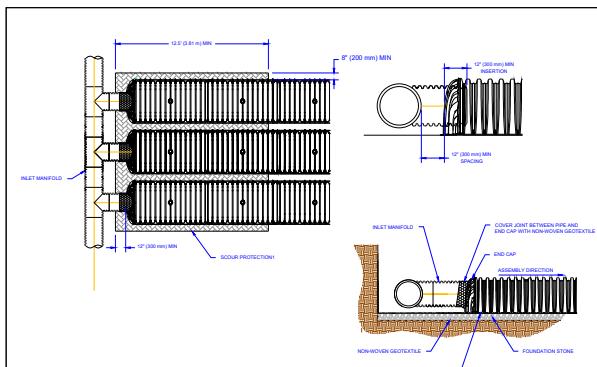
NOTES:

1. REFERENCED HYDROSTOR HS7 - CROSS SECTION (D-7-304) FOR ALL ACCEPTABLE FILL MATERIAL AND PROPER INSTALLATION PRACTICES.
2. THERMOPLASTIC LINERS OPTIONS INCLUDE: ONE LAYER OF ANASTO HIGH CLASS 2 OR 3 NON-WOVEN GEOTEXTILE ALSO ENCAPSULATED IN A LOW DENSITY POLYETHYLENE (LDPE), 30 MIL (0.76 mm) THICK.
3. THERMOPLASTIC LINERS OPTIONS INCLUDE: ONE LAYER OF ANASTO HIGH CLASS 2 OR 3 NON-WOVEN GEOTEXTILE ALSO ENCAPSULATED IN A LOW DENSITY POLYETHYLENE (LDPE), 30 MIL (0.76 mm) THICK.
4. ANASTO HIGH CLASS 2 OR 3 NON-WOVEN GEOTEXTILE SHALL BE PLACED ON BOTH SIDES OF THERMOPLASTIC TO PROTECT AGAINST ANGULAR AGGREGATE ON THE WATER SIDE AND FROM PUNCTURE ON THE SOIL SIDE AT THE EMBANKMENT. SYSTEM USE THERMOPLASTIC LINER ONLY.
5. THERMOPLASTIC LINER AND PIPE BOOTS SHALL BE INSTALLED PER THE MANUFACTURER'S INSTALLATION RECOMMENDATIONS.
6. THERMOPLASTIC LINER AND PIPE BOOTS SHALL BE INSTALLED PER THE MANUFACTURER'S INSTALLATION RECOMMENDATIONS.
7. A PIPE BOOT WITH CLAMP IS RECOMMENDED WHEN PIPE PENETRATES THOUGH THE LINER. DO NOT USE A CLAMP ON THE THERMOPLASTIC LINER AS IT CAN DAMAGE THE LINER AND THE THERMOPLASTIC LINER.
8. FOR A WATERPROOF BOOT CONNECTION, IT IS RECOMMENDED TO TRANSITION TO A SMOOTH WALL PIPE (E.G. PVC). THIS CAN BE DONE IN MANY WAYS. MAMAC DESMILAR COUPLER, FENICO COUPLER, HARCO HUB COUPLER, OR A 90 DEGREE PVC COUPLER CAN BE USED. THE DESIGNER SHALL DETERMINE THE APPROPRIATE CONDUIT AND PLASTIC PIPE. THE PROJECT ENGINEER SHALL DECIDE ON WHAT PIPE MATERIAL PENETRATES THE THERMOPLASTIC LINER.

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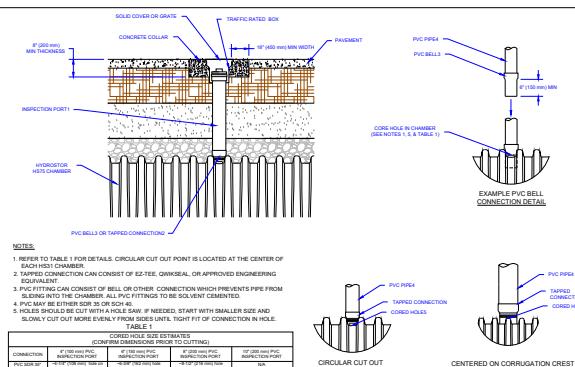
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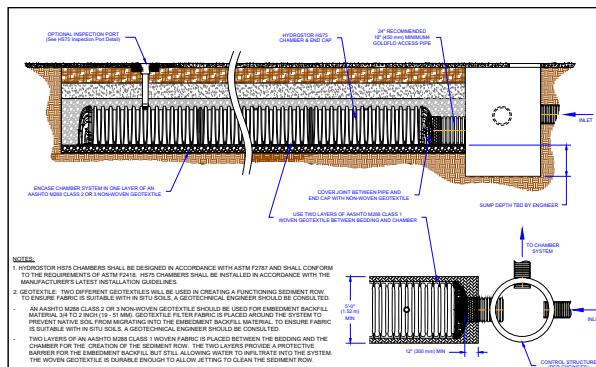
NOTES:

1. SCOUR PROTECTION SHOULD USE A WOVEN GEOTEXTILE.
2. SCOUR PROTECTION IS ONLY NEEDED WITH CHAMBERS CONNECTED TO THE INLET MANIFOLD.

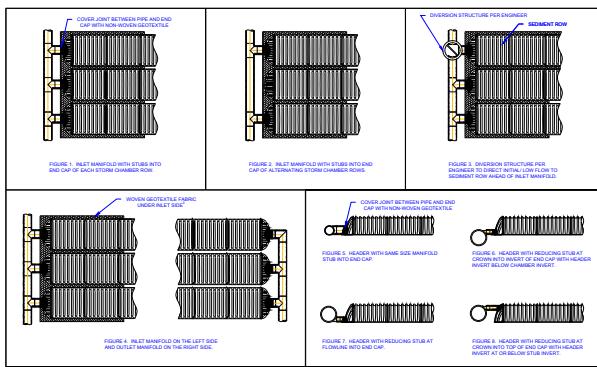
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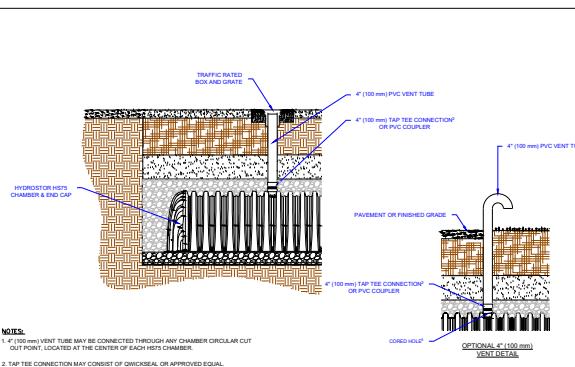
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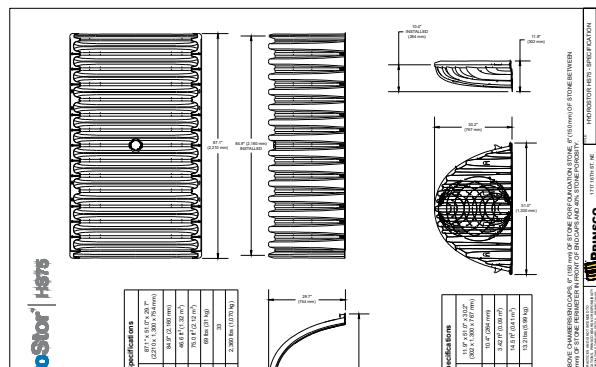
NOTES:

1. HEADER POSSIBILITIES: THE CONFIGURATIONS SHOWN ON THIS DRAWING ARE JUST A FEW OF THE OPTIONS.
2. INSERTED AT LEAST 12" (300 mm) INTO CHAMBERS.
3. PRINSCO RECOMMENDS A SCOUR CONTROL MEASURE AT PILES SUCH AS A WOVEN GEOTEXTILE FILTER FABRIC OR A 30 MIL (0.76 mm) THICK GEOTEXTILE.
4. PRINSCO RECOMMENDS A NON-WOVEN GEOTEXTILE BE PLACED AT ALL PIPE/CAP JOINTS.
5. EXCAVATION HALL (GROUT OR VERTIC) SHALL NOT EXPOSED TO A MAXIMUM DEPTH OF 12 INCHES (300 mm) ABOVE THE TOP OF THE CHAMBER. COMPACT TO A MINIMUM OF 95%.

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DRAWN BY: AED DATE: 12-Dec-25 DRAWING NUMBER: D-7-309
SCALE: NTS SHEET: 1 OF 1