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	S SALES REP:	MICHAE 613-882-		
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PR	OJECT NO:	S201666		
	S SITE	MATTH	EW BEC	SHIN
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S(1.	C-740 S			
2.	CHAMBERS S			
۷.	COPOLYMER		ARCH-	SHAFI
3.	CHAMBERS S THE REQUIRI COLLECTION	EMENTS	OF AST	
1.	CHAMBER RO			
5.	THE STRUCT THAT THE LO LONG-DURAT TRUCK WITH	AD FACT	ORS SE D LOAD	PECIFI
6.	CHAMBERS S "STANDARD F LOAD CONFIC MAXIMUM PE	PRACTICE	E FOR S NS SHA	STRUC
7.	 STACKI TO ENS THAN 5 TO ENS SECTIC DURING 	NTS FOR NTAIN TH NG LUGS URE A SI 0 mm (2") SURE THE N 6.2.8 O INSTALI CTIVE GO	IE WIDT 3. ECURE 1. E INTEG IF ASTN LATION	TH OF JOINT GRITY (A F241 AT EL
8.	THE ST DEAD L LRFD B THE TE	R OWNEF	R, THE (RS TO T AL EVA AL EVA 1.75 F ESIGN \$ /ED CR	CHAMI THE PI LUATI LUATI OR LIN SPECI EEP M
9.	CHAMBERS A	ND END	CAPS S	HALL

PROPOSI	ED LAYOUT
43	STORMTECH SC-740 CHAMBERS
14	STORMTECH SC-740 END CAPS
152	STONE ABOVE (mm) STONE BELOW (mm)
152 40	% STONE VOID
120.9	INSTALLED SYSTEM VOLUME (m ³)
204.8	SYSTEM AREA (m ²)
191.0	SYSTEM PERIMETER (m)
	ED ELEVATIONS - HH01
92.190	MAXIMUM ALLOWABLE GRADE (TO
90.362	MINIMUM ALLOWABLE GRADE (UNF
90.209	MINIMUM ALLOWABLE GRADE (UNF
90.209	MINIMUM ALLOWABLE GRADE (BAS
90.209	MINIMUM ALLOWABLE GRADE (TOF
89.904	TOP OF STONE:
89.752	TOP OF SC-740 CHAMBER:
89.308	300 mm TOP MANIFOLD INVERT: 300 mm ISOLATOR ROW INVERT:
89.020 88.990	BOTTOM OF SC-740 CHAMBER:
88.838	BOTTOM OF STONE:
00.000	
	ED ELEVATIONS - MHCB MAXIMUM ALLOWABLE GRADE (TO
92.320	MAXIMUM ALLOWABLE GRADE (TO MINIMUM ALLOWABLE GRADE (UNF
90.339	MINIMUM ALLOWABLE GRADE (UNF
90.339	MINIMUM ALLOWABLE GRADE (BAS
90.339	MINIMUM ALLOWABLE GRADE (TOF
90.034	TOP OF STONE:
89.882	TOP OF SC-740 CHAMBER:
89.150	300 mm ISOLATOR ROW INVERT:
89.120	BOTTOM OF SC-740 CHAMBER:
88.968	BOTTOM OF STONE:
PPOPOSI	ED ELEVATIONS - MHCB
92.590	MAXIMUM ALLOWABLE GRADE (TO
90.762	MINIMUM ALLOWABLE GRADE (UNF
90.609	MINIMUM ALLOWABLE GRADE (UNF
90.609	MINIMUM ALLOWABLE GRADE (BAS
90.609	MINIMUM ALLOWABLE GRADE (TOP
90.304	TOP OF STONE:
90.152	TOP OF SC-740 CHAMBER:
89.408 89.420	250 mm BOTTOM CONNECTION INV 300 mm ISOLATOR ROW INVERT:
89.390	BOTTOM OF SC-740 CHAMBER:
89.238	BOTTOM OF STONE:
PPOPOSI	ED ELEVATIONS - MHCB
92.740	MAXIMUM ALLOWABLE GRADE (TO
90.912	MINIMUM ALLOWABLE GRADE (UNF
90.759	MINIMUM ALLOWABLE GRADE (UNF
90.759	MINIMUM ALLOWABLE GRADE (BAS
90.759	MINIMUM ALLOWABLE GRADE (TOP
90.454	TOP OF STONE:
90.302	TOP OF SC-740 CHAMBER:
89.570	300 mm ISOLATOR ROW INVERT:
89.540	BOTTOM OF SC-740 CHAMBER:
89.388	BOTTOM OF STONE:

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ADVANCED DRAINAGE SYSTEMS, INC.

3817-3843 INNES ROAD

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2.

EMBRUN, ON.

I CHAMBER SPECIFICATIONS

CH SC-740.

PED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE

TO CSA B184, "POLYMERIC SUB-SURFACE STORMWATER MANAGEMENT STRUCTURES", AND MEET 18-16a, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER

CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD FOR INSPECTION.

CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE IED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) ND 2) SHORT-DURATION LIVE LOADS, BASED ON THE CSA S6 CL-625 TRUCK AND THE AASHTO DESIGN R IMPACT AND MULTIPLE VEHICLE PRESENCES.

TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, CTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". CLUDE: 1) INSTANTANEOUS (<1 MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) VER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) AASHTO DESIGN TRUCK.

ND INSTALLATION: CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING

T DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN 18 SHALL BE GREATER THAN OR EQUAL TO 550 LBS/IN/IN. AND b) TO RESIST CHAMBER DEFORMATION LEVATED TEMPERATURES (ABOVE 23° C / 73° F), CHAMBERS SHALL BE PRODUCED FROM OW COLORS.

OVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN IBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE PROJECT SITE AS FOLLOWS:

ION SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER. ION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR VE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS 3 AND 12.12 OF THE AASHTO IFICATIONS FOR THERMOPLASTIC PIPE. MODULUS AS SPECIFIED IN ASTM F2418 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN THE 75-YEAR MODULUS USED FOR DESIGN.

BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF THE SC-740 SYSTEM

- STORMTECH SC-740 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED. PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
- 2. STORMTECH SC-740 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTI
- CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS. STORMTECH RECOMMENDS 3 BACKFILL METHODS:
- STONESHOOTER LOCATED OFF THE CHAMBER BED. BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE. BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
- THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS. 4.
- 5. JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
- MAINTAIN MINIMUM 150 mm (6") SPACING BETWEEN THE CHAMBER ROWS.
- EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE 20-50 mm (3/4-2").
- 8. THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO TH ENGINEER.
- ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE 9. STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

NOTES FOR CONSTRUCTION EQUIPMENT

- 1. STORMTECH SC-740 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTR
- THE USE OF CONSTRUCTION EQUIPMENT OVER SC-740 CHAMBERS IS LIMITED: NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
- NO RUBBER TIRED LOADERS, DUMP TRUCKS, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
- WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUC FULL 900 mm (36") OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMF

3. USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO THE CHAMBERS AND ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STANDARD WARRANTY.

CONTACT STORMTECH AT 1-888-892-2694 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTR

1.295 m 🗕 🗖 🖛

1.905 m → 🔨 7 →

PROPOSED ELEVATIONS - MHCB06 TO MHCB07 92.870 MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED): 91.042 MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC): 90.889 MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC): 90.889 MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT): 90.889 MINIMUM ALLOWABLE GRADE (TOP OF RIGID PAVEMENT):) (PERIMETER STONE INCLUDED) 90.584 TOP OF STONE: 90.432 TOP OF SC-740 CHAMBER: 89.700 300 mm ISOLATOR ROW INVERT: 89.670 BOTTOM OF SC-740 CHAMBER: TO MHCB02 89.518 BOTTOM OF STONE: OP OF PAVEMENT/UNPAVED): NPAVED WITH TRAFFIC): NPAVED NO TRAFFIC): NOTES ASE OF FLEXIBLE PAVEMENT): MANIFOLD SIZE TO BE DETERMINED BY SITE DESIGN ENGINEER. SEE TECHNICAL NOTE 6.32 FOR MANIFOLD SIZING GUIDANCE. OP OF RIGID PAVEMENT): • DUE TO THE ADAPTATION OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL PIPE TO STANDARD MANIFOLD COMPONENTS IN THE FIELD. THE SITE DESIGN ENGINEER MUST REVIEW ELEVATIONS AND IF NECESSARY ADJUST GRADING TO ENSURE THE CHAMBER COVER REQUIREMENTS ARE MET. THIS CHAMBER SYSTEM WAS DESIGNED WITHOUT SITE-SPECIFIC INFORMATION ON SOIL CONDITIONS OR BEARING CAPACITY. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR DETERMINING THE SUITABILITY OF THE SOIL AND PROVIDING THE BEARING CAPACITY OF THE INSITU SOILS. THE BASE STONE DEPTH MAY BE INCREASED OR DECREASED ONCE THIS INFORMATION IS PROVIDED. PLACE MINIMUM 3.81 m OF ADS GEOSYNTHETICS 315WTK WOVEN MHCB 04 PER PLAN B02 TO MHCB03 GEOTEXTILE OVER BEDDING STONE AND UNDERNEATH CHAMBER [RELOCATED] OP OF PAVEMENT/UNPAVED): MHCB 03 PER PLAN FEET FOR SCOUR PROTECTION AT ALL CHAMBER INLET ROWS MAXIMUM INLET FLOW 65 L/s NPAVED WITH TRAFFIC): (DESIGN BY ENGINEER / (DESIGN BY ENGINEER / PROVIDED BY OTHERS) NPAVED NO TRAFFIC): ------ 13.660 m --PROVIDED BY OTHERS) ASE OF FLEXIBLE PAVEMENT): OP OF RIGID PAVEMENT): |X/•/X/ 300 mm X 300 mm ADS N-12 TOP MANIFOLD INVERT 318 mm ABOVE CHAMBER BASE MHCB 05 PER PLAN (SEE NOTES) (DESIGN BY ENGINEER / PROVIDED BY OTHERS) B04 TO MHCB05 OP OF PAVEMENT/UNPAVED) NPAVED WITH TRAFFIC): INSPECTION PORT NPAVED NO TRAFFIC): (TYP 6 PLACES) ASE OF FLEXIBLE PAVEMENT): - ISOLATOR ROW OP OF RIGID PAVEMENT): (SEE DETAIL / TYP 6 PLACES) VERT MHCB 02 PER PLAN MHCB 06 PER PLAN (DESIGN BY ENGINEER / (DESIGN BY ENGINEER / PROVIDED BY OTHERS) PROVIDED BY OTHERS) **B05 TO MHCB06** OP OF PAVEMENT/UNPAVED): VPAVED WITH TRAFFIC): 300 mm ADS N-12 BOTTOM CONNECTION -NPAVED NO TRAFFIC): ASE OF FLEXIBLE PAVEMENT): INVERT 30 mm ABOVE CHAMBER BASE MHCB 07 PER PLAN (SEE NOTES) TYP 7 PLACES OP OF RIGID PAVEMENT): [RELOCATED] (DESIGN BY ENGINEER / STM HH 01 PER PLAN -PROVIDED BY OTHERS) [RELOCATED] (DESIGN BY ENGINEER / PROVIDED BY OTHERS)

🗕 🗕 1.295 m

- 1.905 m

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