PROJEC	CT INFC
ENGINEERED PRODUCT MANAGER	
ADS SALES REP	
PROJECT NO.	

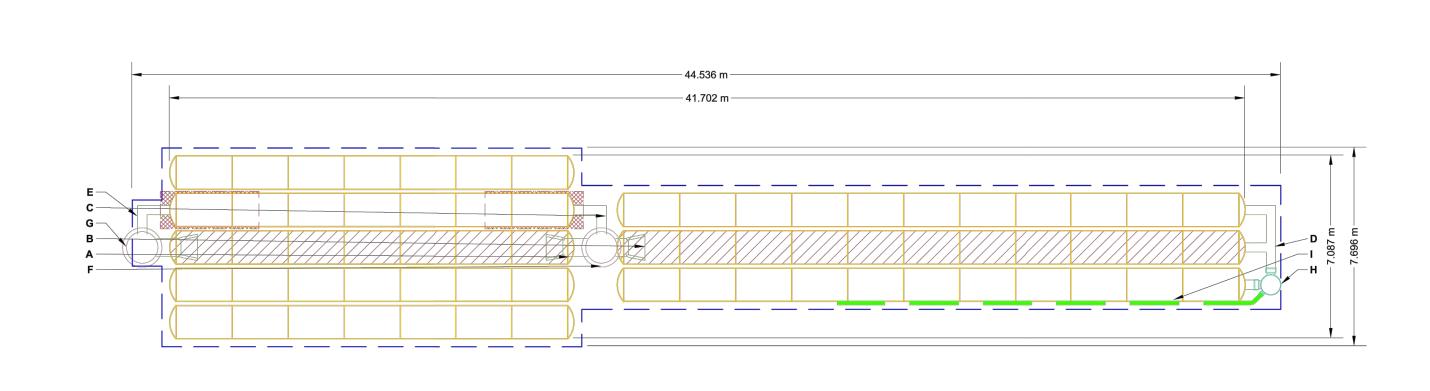
SC-740 STORMTECH CHAMBER SPECIFICATIONS

- 1. CHAMBERS SHALL BE STORMTECH SC-740.
- COPOLYMERS.
- COLLECTION CHAMBERS".
- IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.

- 7. REQUIREMENTS FOR HANDLING AND INSTALLATION: STACKING LUGS.
 - THAN 50 mm (2").
- FROM REFLECTIVE GOLD OR YELLOW COLORS. DELIVERING CHAMBERS TO THE PROJECT SITE AS FOLLOWS:

2 ADS. INC

		PROPOSED ELEVATIONS		*INVERT ABOVE BASE OF CHAM		SE OF CHAME		
	8 STORMTECH SC-740 CHAMBERS MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED): 93.198			ITEM ON		INVERT'	MAX FLOV	
152	STORMTECH SC-740 END CAPS STONE ABOVE (mm) STONE BELOW (mm)	MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC): MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC):		PREFABRICATED EZ END CAP		600 mm BOTTOM PREFABRICATED EZ END CAP, PART#: SC740ECEZ / TYP OF ALL 600 mm BOTTOM CONNECTIONS AND ISOLATOR PLUS ROWS	3 mm	
40		MINIMUM ALLOWABLE GRADE (TOP OF RIGID CONCRETE PAVEMENT): MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT):	91.217	FLAMP MANIFOLD		INSTALL FLAMP ON 600 mm ACCESS PIPE / PART#: SC74024RAMP (TYP 3 PLACES) 300 mm x 300 mm TOP MANIFOLD, ADS N-12	318 mm	
162.2	(PERIMETER STONE INCLUDED)	TOP OF STONE: TOP OF SC-740 CHAMBER:	90 750	MANIFOLD MANIFOLD	D	300 mm x 300 mm BOTTOM MANIFOLD, ADS N-12 300 mm x 300 mm TOP MANIFOLD, ADS N-12	30 mm 318 mm	
	(BASE STONE INCLUDED)	300 mm x 300 mm TOP MANIFOLD INVERT: 300 mm x 300 mm TOP MANIFOLD INVERT:	90.315	CONCRETE STRUCTURE	F	(DESIGN BY ENGINEER / PROVIDED BY OTHERS)	31011111	65 L/s IN
	SYSTEM AREA (m ⁻) SYSTEM PERIMETER (m)	300 mm x 300 mm BOTTOM MANIFOLD INVERT: 300 mm BOTTOM CONNECTION INVERT:	90.028	CONCRETE STRUCTURE NYLOPLAST (OUTLET)	H	(DESIGN BY ENGINEER / PROVIDED BY OTHERS) 750 mm DIAMETER (DESIGN BY ENGINEER)		65 L/s IN 113 L/s OU
		600 mm ISOLATOR ROW PLUS INVERT: 600 mm ISOLATOR ROW PLUS INVERT: BOTTOM OF SC-740 CHAMBER: UNDERDRAIN INVERT: BOTTOM OF STONE:	90.000 90.000 89.997 89.845 89.845			150 mm ADS N-12 DUAL WALL PERFORATED HDPE UNDERDRAIN		



ISOLATOR ROW PLUS (SEE DETAIL/TYP 2 PLACES) PLACE MINIMUM 3.810 m OF ADSPLUS125 WOVEN GEOTEXTILE OVER BEDDING STONE AND UNDERNEATH CHAMBER FEET FOR SCOUR PROTECTION AT ALL CHAMBER INLET ROWS - BED LIMITS

RMATION





3817 INNES ROAD OTTAWA, CANADA

1.

2. CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE

3. CHAMBERS SHALL BE CERTIFIED TO CSA B184, "POLYMERIC SUB-SURFACE STORMWATER MANAGEMENT STRUCTURES", AND MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER

4. CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD

5. THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE CSA S6 CL-625 TRUCK AND THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.

CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (<1 MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) AASHTO DESIGN TRUCK.

• TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING • TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS • TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 550 LBS/FT/%. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 23° C / 73° F), CHAMBERS SHALL BE PRODUCED

8. ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE • THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER.

• THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS 3 AND 12.12 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE. THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2418 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.

9. CHAMBERS AND END CAPS SHALL 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 COMPLETE 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 CONS 3. 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.
- 4. THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
- 5. JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
- 6. MAINTAIN MINIMUM 150 mm (6") SPACING BETWEEN THE CHAMBER ROWS.
- 7. 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 ENGINEER.

9. ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT TH 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 CONS 2. 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 REACI 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 CONSTRU 3. FULL 900 mm (36") OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUI

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

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

 MANIFOLD SIZE TO BE DETERMINED BY SITE DESIGN ENGINEER. SEE TECH NOTE #6.32 FOR MANIFOLD SIZING GUIDANCE.
 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 MANIFO 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 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. • NOT FOR CONSTRUCTION: THIS LAYOUT IS FOR DIMENSIONAL PURPOSES ONLY TO PROVE CONCEPT & THE REQUIRED STORAGE VOLUME CAN BE ACHIEVED ON SITE.

]	COPYRIGHT RESERVED THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE OF ALL DIMENSIONS. DO NOT SCALE THE DRAWING - ANY ERRORS OR OMISSIONS SHALL BE REPORTED TO BLANCHARD LETENDRE ENGINEERING LTD. WITHOUT DELAY. THE COPYRIGHTS TO ALL DESIGNS AND DRAWINGS ARE THE PROPERTY OF BLANCHARD LETENDRE ENGINEERING LTD. REPRODUCTION OR USE FOR ANY PURPOSE OTHER THAN THAT AUTHORIZED BY BLANCHARD LETENDRE ENGINEERING LTD. IS STRICTLY PROHIBITED.
1	
ED A STRUCTION GUIDE".	
THE SITE DESIGN	
HE SUBSURFACE STRUCTION GUIDE".	
CHED IN ACCORDANCE RUCTION GUIDE". IMPING. AND IS NOT AN HE STORMTECH	
STRUCTION EQUIPMENT.	
AMBER ELOW	
3817 INNES ROAD 3817 INNES ROAD OTTAWA, CANADA DRAWN: HN CHECKED: N/A AWING PRIOR TO CONSTRUCTION. IT IS TH	ENGINEERING STAMP
Pint Service	G. L. BRUNET G. L. BRUNET 100191036 93/05/2022 900////CE OF ON TABLE
RW CHK DESCRI	#8
H.COM DATE D	#1 ISSUED FOR SPA 14 / 10 / 2020 NO. REVISION DATE (DD/MM/YYYY)
StormTech® Chamber System 888-892-2694 www.stormtec ED to ADS UNDER THE DIRECTION OF THE SITE DI EP TO ADS UNDER THE DIRECTION OF THE SITE DI	BLANCHARD LETENDRE ENGINEERING 767, Notre Dame, Local 42, Embrun, Ontario, KOA IWI (613) 693-0700 blengineering.ca
MAN BLVD DH 43026 473 150 St R88 0 B88 NINFORMATION PROVIDED TO AD R TO ENSURE THAT THE PRODUC	OLIGO DEVELOPMENT 996-B ST. AUGUSTIN RD. EMBRUN, ON PROJECT: NEW RESIDENTIAL
4640 TRUEMAN BLVD HILLIARD, OH 43026 1-800-733-7473 1-800-733-7473 1-800-733-7473 1-800-733-7473 1-800-7474 SCALE = 1 : 150	DEVELOPMENT 3817 - 3843 INNES RD, ORLEANS, ON
SHEET	DETAILS - 1 PAPER FORMAT: 24x36 PAGE:
2 OF 6	PARER FORMAT: 24330 PAGE: DRAWN BY: BF + GB CHECKED BY: GB DATE: 04-2022 SCALE: PROJECT NUMBER: 20-184