

RIVERSIDE SOUTH COMMUNITY CENTRE

OTTAWA, ON, CANADA

DRAWING INDEX	
TITLE	SHEET NO.
COVER SHEET	1 OF 4
SYSTEM LAYOUT SHEET	2 OF 4
SYSTEM OVERLAY SHEET	3 OF 4
R-902HD DETAIL SHEET	4 OF 4

PROJECT INFORMATION						
PROJECT NO.						
CULTEC SALES REP						
CULTEC PROJECT SUPERVISOR						
ENGINEER OF RECORD						
REVISIONS	ITERATION	DATE	BY	COMMENTS	EOR SHEET REFERENCE	DATE
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CULTEC

Subsurface Stormwater Management Systems

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www.cultec.com

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PH: 1(800) 4-CULTEC
stormgenie@cultec.com

NOTE: THESE SHOP DRAWINGS MAY CONTAIN COMPONENTS INCLUDING BUT NOT LIMITED TO MANHOLES, CATCH BASINS, STORM PIPES AND FITTINGS, MANIFOLDS, CASTINGS AND OTHER NECESSARY APPURTENANCES THAT MAY NOT BE SUPPLIED BY CULTEC, INC. IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND/OR SUPPLIER TO CONFIRM WITH CULTEC THE MATERIALS PROVIDED.

BEFORE YOU BEGIN - REQUIRED MATERIALS AND EQUIPMENT

1. PROPER GEOTECHNICAL SOIL EVALUATION BY A QUALIFIED ENGINEER OR SOIL SCIENTIST TO DETERMINE SUITABILITY OF STRUCTURAL INSTALLATION
2. OSHA COMPLIANCE
3. CULTEC WARNING TAPE, OR EQUIVALENT
4. ASSURANCES FROM LOCAL UTILITIES THAT NO UNDERGROUND GAS, ELECTRICAL OR OTHER POTENTIALLY DANGEROUS PIPELINES OR CONDUITS ARE ALREADY BURIED AT THE SITE
5. ACCEPTABLE 1- 2 INCH (25 - 51 mm) WASHED, CRUSHED STONE AS DETAILED IN CULTEC'S INSTALLATION INSTRUCTIONS. CLEANLINESS OF STONE TO BE VERIFIED BY ENGINEER.
6. ACCEPTABLE FILL MATERIAL AS SHOWN IN CULTEC'S INSTALLATION INSTRUCTIONS.
7. ALL CULTEC CHAMBERS AND ACCESSORIES AS SPECIFIED IN THE ENGINEER'S PLANS INCLUDING NON-WOVEN GEOTEXTILE, CULTEC STORMFILTER AND CULTEC AFAB-HPF WOVEN GEOTEXTILE, WHERE APPLICABLE.
8. RECIPROCATING SAW OR ROUTER
9. STONE BUCKET
10. STONE CONVEYOR AND/OR TRACKED EXCAVATOR
11. TRANSIT OR LASER LEVEL MEASURING DEVICE
12. COMPACTION EQUIPMENT WITH MAXIMUM GROSS VEHICLE WEIGHT OF 12,000 LBS (5,440 KGS). VIBRATORY ROLLERS MAY ONLY BE USED ON THE STONE BASE PRIOR TO THE INSTALLATION OF CHAMBERS.
13. CHECK CULTEC CHAMBERS FOR DAMAGE PRIOR TO INSTALLATION. DO NOT USE DAMAGED CULTEC CHAMBERS, CONTACT YOUR SUPPLIER IMMEDIATELY TO REPORT DAMAGE OR PACKING-LIST DISCREPANCIES.

REQUIREMENTS FOR CULTEC CHAMBER SYSTEM INSTALLATIONS

1. INSTALLING CONTRACTORS ARE EXPECTED TO COMPREHEND AND USE THE MOST CURRENT INSTALLATION INSTRUCTIONS PRIOR TO BEGINNING A SYSTEM INSTALLATION. IF THERE IS ANY QUESTION AS TO WHETHER YOU POSSESS THE MOST CURRENT INSTRUCTIONS, CONTACT CULTEC AT (203) 775-4416 OR VISIT WWW.CULTEC.COM.
2. CONTACT CULTEC AT LEAST THIRTY DAYS PRIOR TO SYSTEM INSTALLATION TO ARRANGE FOR A PRE-CONSTRUCTION MEETING.
3. ALL CULTEC SYSTEM DESIGNS MUST BE CERTIFIED BY A REGISTERED PROFESSIONAL ENGINEER.
4. USE CULTEC INSTALLATION INSTRUCTIONS AS A GUIDELINE ONLY FOR MINIMUM/MAXIMUM REQUIREMENTS. ACTUAL DESIGN MAY VARY. REFER TO APPROVED CONSTRUCTION DRAWINGS FOR JOB-SPECIFIC DETAILS. BE SURE TO FOLLOW THE ENGINEER'S DRAWINGS AS YOUR PRIMARY GUIDE.
5. THE FOUNDATION STONE SHALL BE LEVEL AND COMPACTED PRIOR TO CHAMBER INSTALLATION.
6. OVERLAPPING RIB CONNECTIONS OF CHAMBERS SHALL BE FULLY SHOULDERED PRIOR TO STONE PLACEMENT.
7. CENTER-TO-CENTER SPACING SHALL BE CHECKED AND MAINTAINED THROUGHOUT INSTALLATION PROCESS.
8. ANY DISCREPANCIES WITH THE SYSTEM SUB-GRADE SOIL'S BEARING CAPACITY MUST BE REPORTED TO THE DESIGN ENGINEER.
9. NON-WOVEN GEOTEXTILE MUST BE USED AS SPECIFIED IN THE ENGINEER'S DRAWINGS.
10. CULTEC REQUIRES THE CONTRACTOR TO REFER TO CULTEC'S INSTALLATION INSTRUCTIONS CONCERNING VEHICULAR TRAFFIC. RESPONSIBILITY FOR PREVENTING VEHICLES THAT EXCEED CULTEC'S REQUIREMENTS FROM TRAVELING ACROSS OR PARKING OVER THE CHAMBER SYSTEM LIES SOLELY WITH THE CONTRACTOR THROUGHOUT THE ENTIRE SITE CONSTRUCTION PROCESS. THE PLACEMENT OF WARNING TAPE, TEMPORARY FENCING, AND/OR APPROPRIATELY LOCATED SIGNS IS HIGHLY RECOMMENDED. IMPRINTED WARNING TAPE IS AVAILABLE FROM CULTEC. FOR ACCEPTABLE VEHICLE LOAD INFORMATION, REFER TO CULTEC INSTALLATION INSTRUCTIONS.
11. TRAFFIC OF INSTALLATION EQUIPMENT OR OTHER VEHICULAR TRAFFIC OVER TOP OF THE CULTEC STORMWATER SYSTEM IS STRICTLY RESTRICTED AND PROHIBITED UNTIL SATISFACTORY COVER AND COMPACTION IS ACHIEVED ACCORDING TO CULTEC'S MANUFACTURER INSTALLATION INSTRUCTIONS.
12. EROSION AND SEDIMENT-CONTROL MEASURES MUST MEET LOCAL CODES AND THE DESIGN ENGINEER'S SPECIFICATIONS THROUGHOUT THE ENTIRE SITE CONSTRUCTION PROCESS.
13. CULTEC SYSTEMS MUST BE DESIGNED AND INSTALLED IN ACCORDANCE WITH CULTEC'S MINIMUM REQUIREMENTS. FAILURE TO DO SO WILL VOID THE LIMITED WARRANTY.
14. CONTACT CULTEC, INC. AT 203-775-4416 WITH ANY QUESTIONS OR FURTHER CLARIFICATION OF REQUIREMENTS.
15. PLACEMENT OF EMBEDMENT STONE MUST BE IN ACCORDANCE WITH CULTEC'S INSTALLATION INSTRUCTIONS. STONE COLUMN HEIGHT DEFERENTIAL MUST NEVER EXCEED 12" (305 mm) BETWEEN CHAMBER ROWS, ADJACENT CHAMBERS OR STONE PERIMETER. STONE MUST BE PLACED OVER THE CROWN OF THE CHAMBERS TO ANCHOR THE CHAMBERS IN PLACE AND MAINTAIN ROW SPACING.
16. EMBEDMENT STONE MUST ONLY BE PLACED BY EXCAVATOR OR TELESCOPING CONVEYOR BOOM. PLACEMENT OF EMBEDMENT STONE WITH BULLDOZER IS NOT AN ACCEPTABLE METHOD OF INSTALLATION AND MAY CAUSE DAMAGE TO THE CHAMBERS. ANY CHAMBERS DAMAGED USING AN UNACCEPTABLE METHOD OF BACKFILL ARE NOT COVERED UNDER THE CULTEC LIMITED WARRANTY.

THIS DRAWING HAS BEEN PREPARED TO SUPPORT THE PROJECT ENGINEER OF RECORD FOR THE PROPOSED SYSTEM. THIS DRAWING HAS BEEN PREPARED BASED ON INFORMATION PROVIDED TO CULTEC UNDER THE DIRECTION OF THE PROJECT ENGINEER OF RECORD OR OTHER PROJECT REPRESENTATIVE. IT IS ULTIMATE RESPONSIBILITY OF THE PROJECT ENGINEER OF RECORD TO ENSURE THAT THE CULTEC SYSTEM'S DESIGN IS IN FULL COMPLIANCE WITH ALL APPLICABLE LAWS, REGULATIONS AND MANUFACTURER REQUIREMENTS.

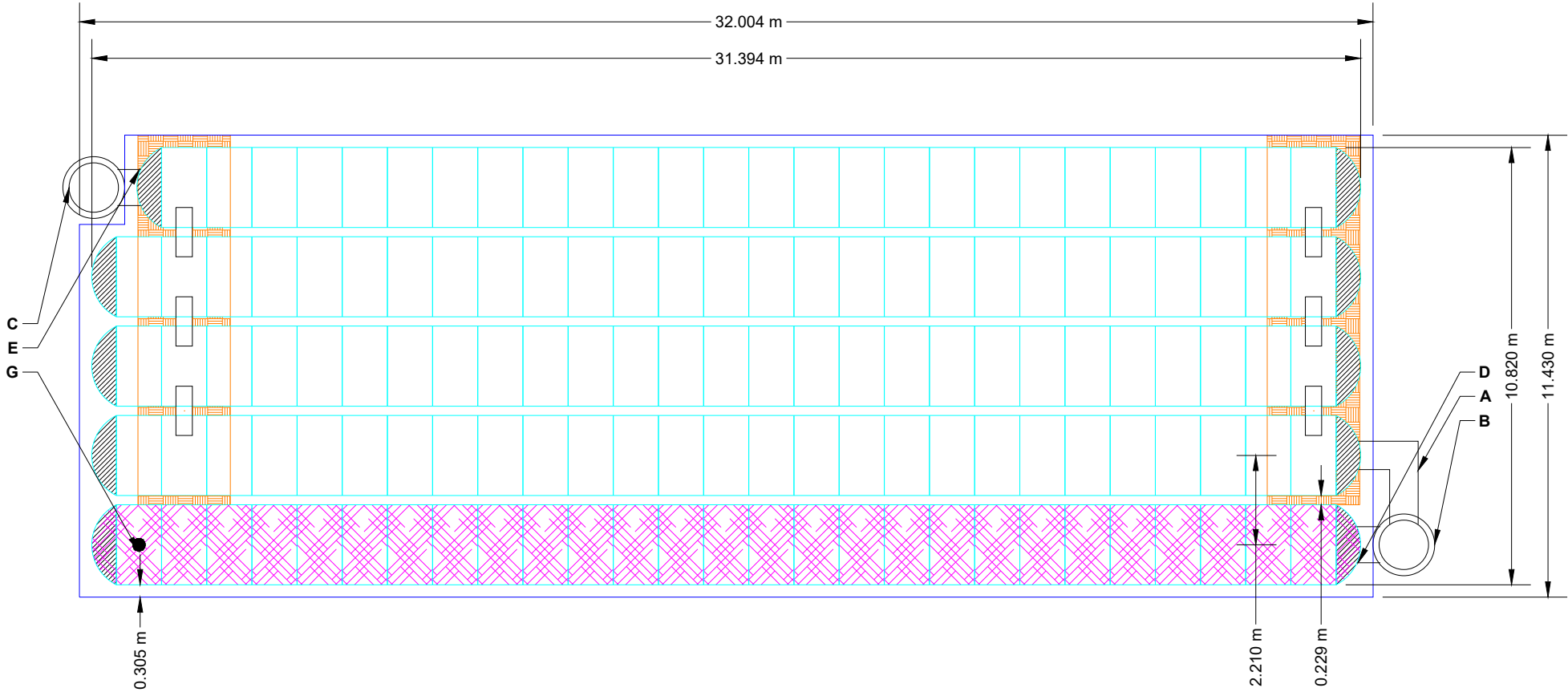
PROPOSED STORMWATER MANAGEMENT SYSTEM ELEVATIONS (M)	
MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT OR UNPAVED)	93.548
MINIMUM ALLOWABLE GRADE (UNPAVED TRAFFIC)	91.780
MINIMUM ALLOWABLE GRADE (TOP OF RIGID PAVEMENT)	91.627
MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT)	91.627
TOP OF STONE ELEVATION	91.323
TOP OF CHAMBER ELEVATION	91.018
600 mm x 600 mm TOP MANIFOLD INVERT	90.269
750 mm BOTTOM CONNECTION INVERT	89.875
750 mm BOTTOM CONNECTION INVERT	89.875
BOTTOM OF CHAMBER ELEVATION	89.799
BOTTOM OF STONE ELEVATION	89.570

CULTEC STORMWATER MANAGEMENT SYSTEM SUMMARY	
TOTAL STORAGE REQUIRED (CU. METERS)	400.0
TOTAL STORAGE PROVIDED (CU. METERS)	402.3
% STONE POROSITY	40
SYSTEM AREA (SQ. METERS)	363.3
DEPTH OF EMBEDMENT STONE (MM)	305
DEPTH OF BEDDING STONE (MM)	229
SYSTEM PERIMETER (M)	86.9
SPACING BETWEEN CHAMBER ROWS (MM)	228.6

NOTES: ALL EXTERNAL SYSTEM STRUCTURES, INLET/OUTLET PIPES, AND PROPOSED ELEVATIONS MUST BE DESIGNED AND APPROVED BY THE ENGINEER OF RECORD. ALL PROPOSED SYSTEM ELEVATIONS PROVIDED MUST BE VERIFIED BY THE ENGINEER OF RECORD ENGINEER AND THE ENGINEER OF RECORD MUST ENSURE CHAMBER BURIAL REQUIREMENTS ARE MET.

MATERIALS LIST SUPPLIED BY CULTEC		
CULTEC RECHARGER® 902HD CHAMBER	134	PIECES
CULTEC RECHARGER® 902HD END CAP	10	PIECES
CULTEC HVLV FC-48 FEED CONNECTOR	6	PIECES
CULTEC No.410 NON-WOVEN GEOTEXTILE (40% OVERAGE)	1318	SQ. METERS
CULTEC AFAB-HPF WOVEN GEOTEXTILE (10% OVERAGE)	61	METERS
CULTEC INSPECTION PORT KIT	1	PIECES
MATERIALS LIST NOT SUPPLIED BY CULTEC		
1-2 INCH WASHED, CRUSHED STONE	391	CU. METERS

CULTEC RECHARGER® 902HD LEGEND	
	CULTEC RECHARGER 902HD CHAMBER
	CULTEC RECHARGER 902HD END CAP
	CULTEC HVLV FC-48 FEED CONNECTORS
	CULTEC SEPARATOR ROW / ADS ISOLATOR ROW PLUS
	CULTEC WOVEN GEOTEXTILE
	STONE BORDER



1 SYSTEM LAYOUT SHEET
1 / 150

*INVERT ABOVE BASE OF CHAMBER			
PART TYPE	ITEM ON LAYOUT	DESCRIPTION	INVERT*
ELEVATED BYPASS PIPE	A	600 mm HIGH-FLOW BYPASS PIPE (PROVIDED BY OTHERS)	470 mm
CONCRETE STRUCTURE	B	INLET STRUCTURE (DESIGN BY ENGINEER / PROVIDED BY OTHERS)	
CONCRETE STRUCTURE	C	OUTLET STRUCTURE (DESIGN BY ENGINEER / PROVIDED BY OTHERS)	
INLET PIPE	D	750 mm INLET/CULTEC SEPARATOR ROW / ADS ISOLATOR ROW PLUS ACCESS PIPE (PROVIDED BY OTHERS)	76 mm
OUTLET PIPE	E	750 mm OUTLET PIPE (PROVIDED BY OTHERS)	76 mm
INSPECTION PORT	G	6"-10" UNIVERSAL (SEE DETAIL)	

CULTEC STORMWATER CHAMBER			
PROJECT #:	DATE:	CHECKED:	SHEET
DESIGNED BY:	StormGenie		2 OF 4
SCALE:	1 / 150		

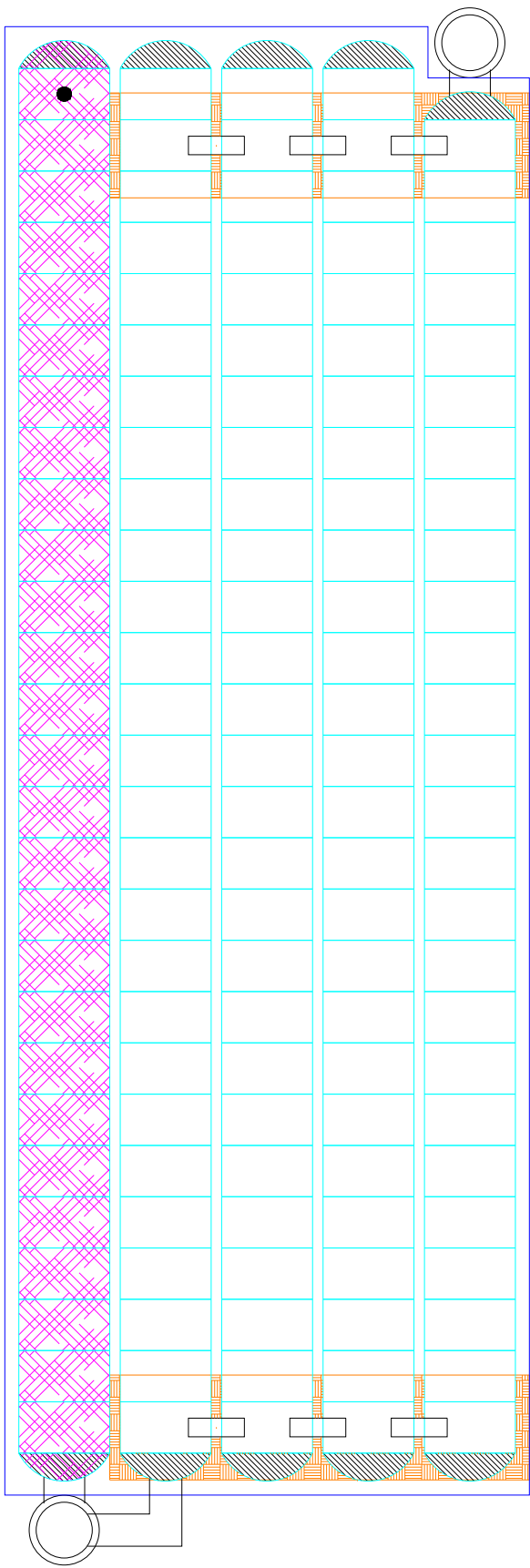
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SYSTEM LAYOUT SHEET			



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RIVERSIDE SOUTH COMMUNITY CENTRE

OTTAWA, ON, CANADA

SYSTEM OVERLAY SHEET

CULTEC STORMWATER CHAMBER

PROJECT #:	DATE:	07/10/2026
DESIGNED BY: StormGenie	CHECKED:	N/A
SCALE: 1 / 150	SHEET	3 OF 4

