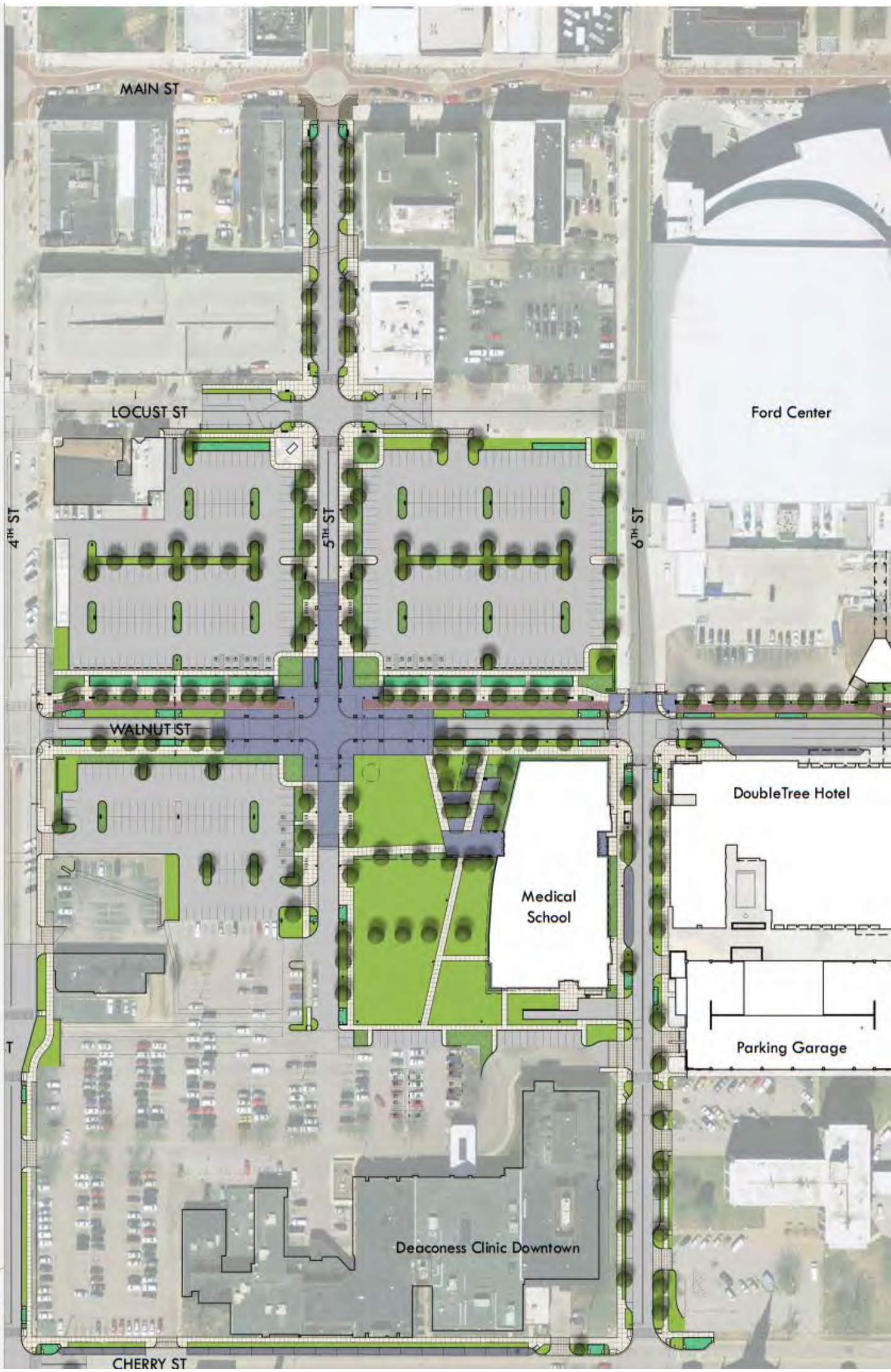
Medical District Streetscape, City of Evansville Stormwater Quantity Solutions

City of Evansville

ADS


MAIN ST
LOCUST ST
Ford Center
4TH ST
5TH ST
6TH ST
WALNUT ST
DoubleTree Hotel
Medical School
Parking Garage
Deaconess Clinic Downtown
CHERRY ST


JLG
CAT
326F
MEL KAY
ELECTRIC

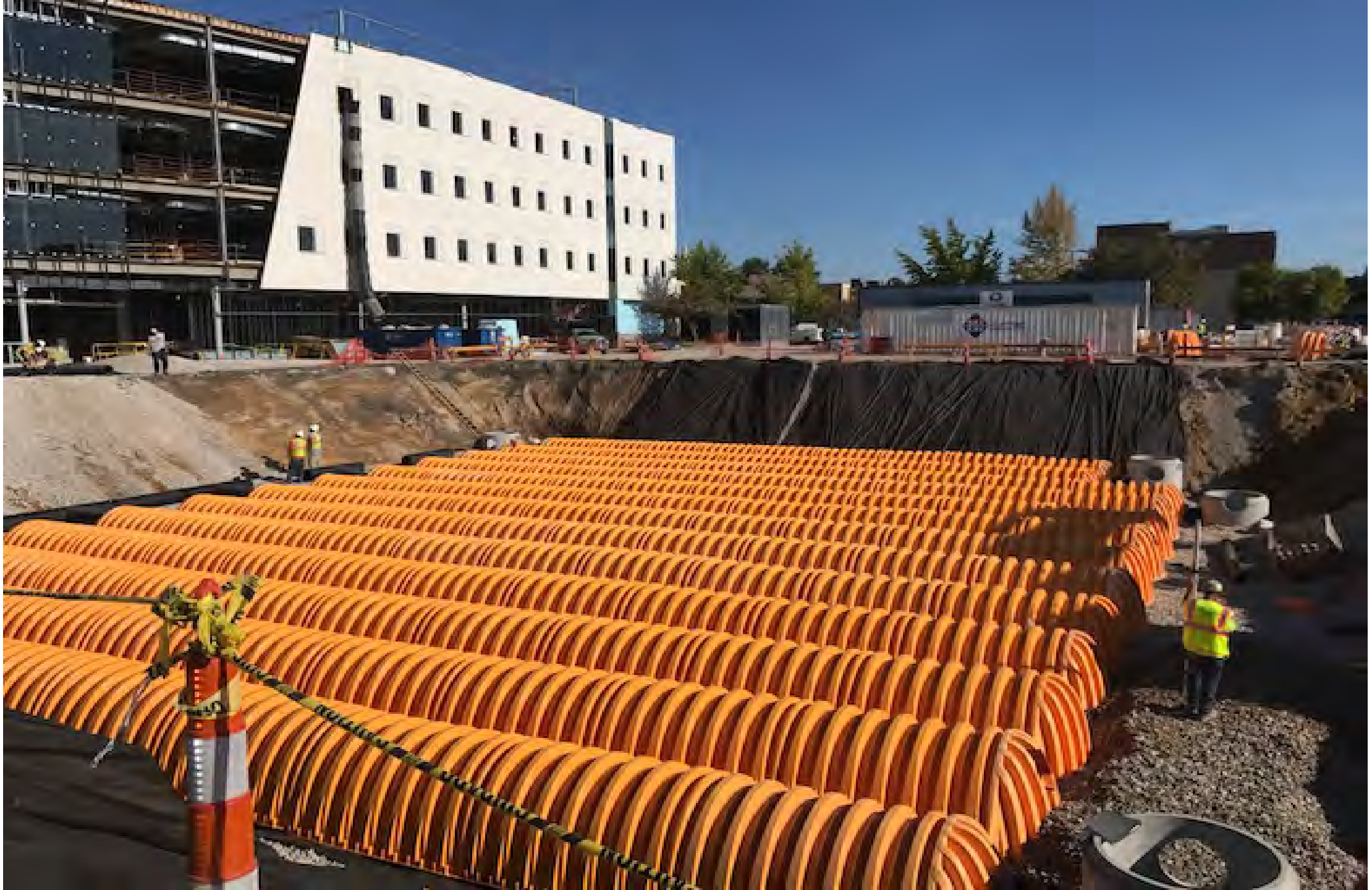

DEERE
RAGLE
450C LC
CAT


CAT
JLG LIFT


CAT
CAT


S&M
PRECAST


Atlec
JLG LIFT



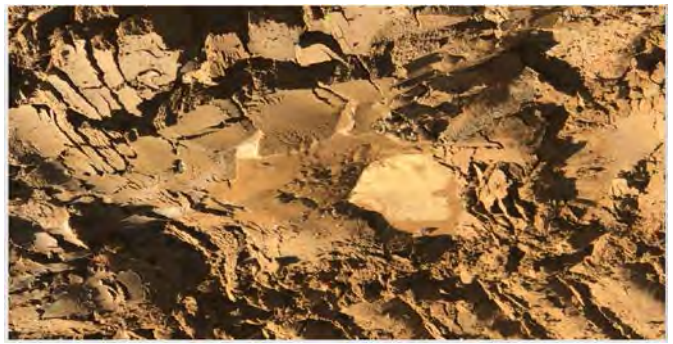

FIFTH THIRD BANK
D-PATRICK


CAT


CAT

Embedded video has been removed from this presentation due to size limitations

Embedded video has been removed from this presentation due to size limitations



Embedded video has been removed from this presentation due to size limitations

Medical District Streetscapes

Medical District Streetscapes

Medical District Streetscape Stats

Capture/Store 2” rainfall

144,000 CF Total Storage

17 UGD Beds of StormTech MC3500 & MC4500

PROPOSED LAYOUT SYSTEM #3/4

(71) STORMTECH MC-4500 CHAMBERS
(10) STORMTECH MC-4500 END CAPS
INSTALLED WITH 12" COVER STONE, 36" BASE STONE, 40% STONE VOID
INSTALLED SYSTEM VOLUME: 17,398 CF (PERIMETER STONE INCLUDED)
AREA OF SYSTEM: 3,513 FT²
PERIMETER OF SYSTEM: 256 FT

NOTES

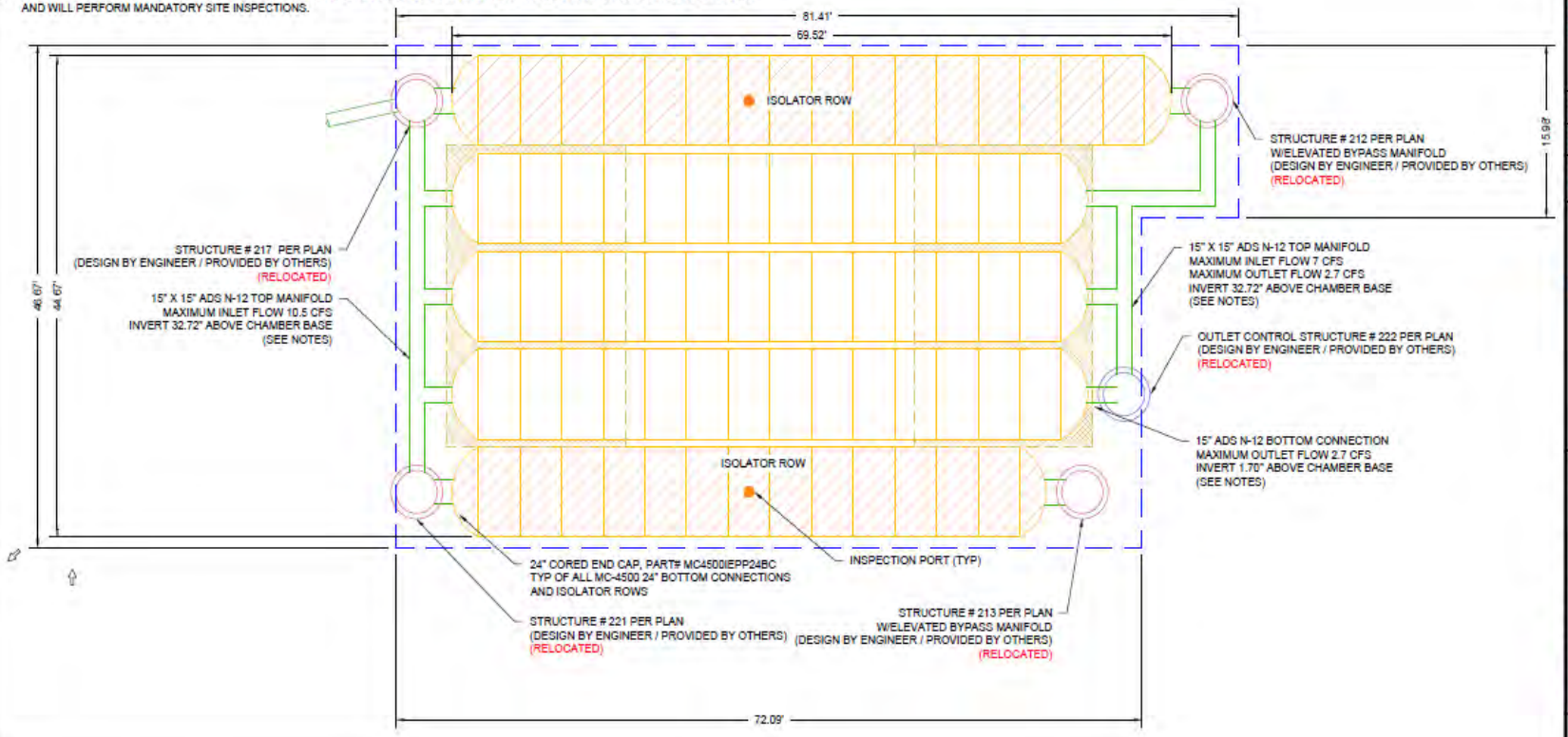
- MANIFOLD SIZE TO BE DETERMINED BY SITE DESIGN ENGINEER. SEE TECH SHEET #7 FOR MANIFOLD SIZING GUIDANCE.
- DUE TO THE ADAPTATION OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL PIPE TO STANDARD MANIFOLD COMPONENTS IN THE FIELD.
- THE SITE DESIGN ENGINEER MUST REVIEW ELEVATIONS AND IF NECESSARY ADJUST GRADING TO ENSURE THE CHAMBER COVER REQUIREMENTS ARE MET.

PROPOSED ELEVATIONS

MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED):	388.00
MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC):	380.31
MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC):	379.81
MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT):	379.81
MINIMUM ALLOWABLE GRADE (TOP OF RIGID CONCRETE PAVEMENT):	379.81
TOP OF STONE:	378.81
TOP OF CHAMBER:	377.81
15" TOP MANIFOLD INVERT:	375.54
24" ISOLATOR ROW INVERT:	373.00
15" BOTTOM CONNECTION INVERT:	372.95
BOTTOM OF CHAMBER:	372.81
BOTTOM OF STONE:	369.81

TIER 1 DEEP COVER SPECIAL PROVISIONS

1. INSTALLATION REQUIREMENTS SHALL BE AS SPECIFIED IN THE STORMTECH DESIGN MANUALS AND CONSTRUCTION GUIDES EXCEPT AS MODIFIED IN THESE SPECIAL PROVISIONS.
2. ATTENTION IS CALLED TO "TABLE 1 - ACCEPTABLE FILL MATERIALS" IN THE STORMTECH CONSTRUCTION GUIDE AND ALL OTHER APPEARANCES OF THE THE "ACCEPTABLE FILL MATERIALS TABLE. FOR AREAS OF THE SYSTEM WITH COVER ABOVE 7 FEET (2.1 m) FOR THE MC-4500 AND ABOVE 8 FEET (2.4 m) FOR THE MC-3500, EMBEDMENT STONE SHALL BE COMPACTED WITH 1 PASS OF A WALK BEHIND VIBRATORY PLATE COMPACTOR OR JUMPING JACK IN 12" (300 mm) LIFTS.
3. STONE SHALL BE GENERALLY UNIFORM IN SHAPE. FLAT OR ELONGATED STONE IS UNACCEPTABLE. FOR DESCRIPTIONS OF ANGULARITY SEE ASTM D2488 "STANDARD PRACTICE FOR DESCRIPTION AND IDENTIFICATION OF SOILS (VISUAL-MANUAL PROCEDURE)".
4. STONE SHALL BE HARD AND DURABLE. IT IS THE ENGINEER'S OR CONTRACTOR'S RESPONSIBILITY TO SELECT HARD AND DURABLE STONE. STORMTECH CONSIDERS AN LA ABRASION VALUE OF LESS THAN OR EQUAL TO 30 TO BE HARD STONE.
5. FOUNDATION STONE SHALL BE MECHANICALLY COMPACTED WITH A VIBRATORY ROLLER OR VIBRATORY PLATE IN 6" (152 mm) LIFTS.
6. EMBEDMENT STONE MUST BE DUMPED IN PLACE BY A STONE SHOOTER OR CONVEYOR OR EXCAVATOR.
7. MANIFOLD PIPE INSERTION MUST EXTEND A MINIMUM OF 5' INTO CHAMBER END CAPS.
8. INSPECTION DURING THE INSTALLATION BY THE ENGINEER, OWNER OR OTHER REPRESENTATIVE IS RECOMMENDED. THE INSPECTION SHALL INCLUDE OBSERVATIONS OF THE CHAMBER SYMMETRY DURING BACKFILLING TO ENSURE THE CONTRACTOR'S METHODS ARE NOT CAUSING UNACCEPTABLE DISTORTION OF THE CHAMBERS.
9. AN ADS FIELD TECHNICIAN WILL CONDUCT A PRECONSTRUCTION MEETING TO TRAIN ALL REPRESENTATIVES INSPECTING THE PROJECT AND WILL PERFORM MANDATORY SITE INSPECTIONS.



MEDICAL DISTRICT
EVANSVILLE, IN

DATE: 11-10-15 DRAWN: CAJ/LM
PROJECT # 122511 CHECKED: KMS

REV	DRW	CHK	DESCRIPTION
12-4-15	CA	GP	COMBINED SITES/MOVED ROWS
02/23/16	DAF	GP	LAYOUT CHANGES PER NEW PLANS

4640 TRUEMAN BLVD
HILLIARD, OH 43026
1-800-733-7473

0 10' 20'

SHEET
5 OF 26

PROPOSED LAYOUT SYSTEM #5

(56) STORMTECH MC-4500 CHAMBERS
(12) STORMTECH MC-4500 END CAPS
INSTALLED WITH 12" COVER STONE, 36" BASE STONE, 40% STONE VOID
INSTALLED SYSTEM VOLUME: 15,258 CF (PERIMETER STONE INCLUDED)
AREA OF SYSTEM: 3,173 FT²
PERIMETER OF SYSTEM: 347 FT

PROPOSED ELEVATIONS

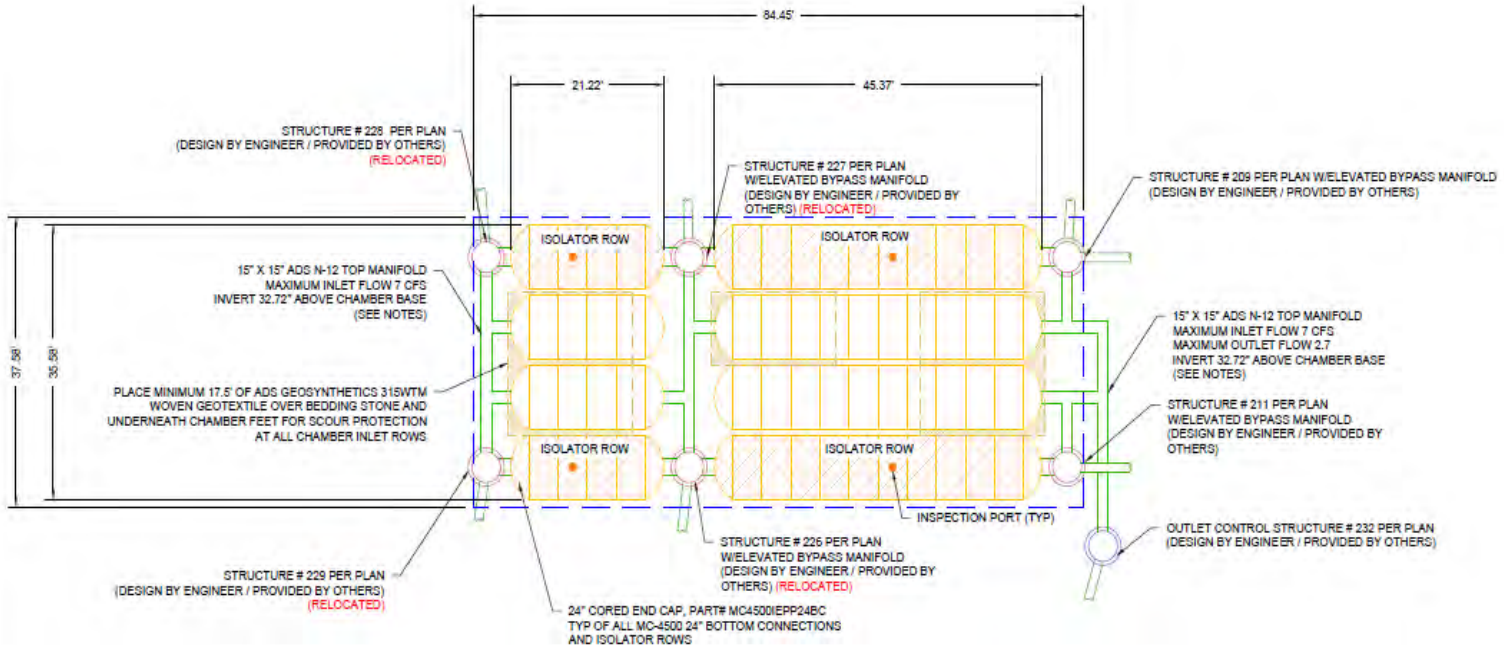
MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED):	388.81
MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC):	382.31
MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC):	381.81
MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT):	381.81
MINIMUM ALLOWABLE GRADE (TOP OF RIGID CONCRETE PAVEMENT):	381.81
TOP OF STONE:	380.81
TOP OF CHAMBER:	379.81
15" TOP MANIFOLD INVERT:	377.54
24" ISOLATOR ROW INVERT:	375.00
BOTTOM OF CHAMBER:	374.81
BOTTOM OF STONE:	371.81

NOTES

- MANIFOLD SIZE TO BE DETERMINED BY SITE DESIGN ENGINEER. SEE TECH SHEET #7 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 MANIFOLD COMPONENTS IN THE FIELD.

TIER 1 DEEP COVER SPECIAL PROVISIONS

1. INSTALLATION REQUIREMENTS SHALL BE AS SPECIFIED IN THE STORMTECH DESIGN MANUALS AND CONSTRUCTION GUIDES EXCEPT AS MODIFIED IN THESE SPECIAL PROVISIONS.
2. ATTENTION IS CALLED TO "TABLE 1 - ACCEPTABLE FILL MATERIALS" IN THE STORMTECH CONSTRUCTION GUIDE AND ALL OTHER APPEARANCES OF THE THE "ACCEPTABLE FILL MATERIALS TABLE. FOR AREAS OF THE SYSTEM WITH COVER ABOVE 7 FEET (2.1 m) FOR THE MC-4500 AND ABOVE 8 FEET (2.4 m) FOR THE MC-3500, EMBEDMENT STONE SHALL BE COMPACTED WITH 1 PASS OF A WALK BEHIND VIBRATORY PLATE COMPACTOR OR JUMPING JACK IN 12" (300 mm) LIFTS.
3. STONE SHALL BE GENERALLY UNIFORM IN SHAPE. FLAT OR ELONGATED STONE IS UNACCEPTABLE. FOR DESCRIPTIONS OF ANGULARITY SEE ASTM D2488 "STANDARD PRACTICE FOR DESCRIPTION AND IDENTIFICATION OF SOILS (VISUAL-MANUAL PROCEDURE)".
4. STONE SHALL BE HARD AND DURABLE. IT IS THE ENGINEER'S OR CONTRACTOR'S RESPONSIBILITY TO SELECT HARD AND DURABLE STONE. STORMTECH CONSIDERS AN LA ABRASION VALUE OF LESS THAN OR EQUAL TO 30 TO BE HARD STONE.
5. FOUNDATION STONE SHALL BE MECHANICALLY COMPACTED WITH A VIBRATORY ROLLER OR VIBRATORY PLATE IN 6" (152 mm) LIFTS.
6. EMBEDMENT STONE MUST BE DUMPED IN PLACE BY A STONE SHOOTER OR CONVEYOR OR EXCAVATOR.
7. MANIFOLD PIPE INSERTION MUST EXTEND A MINIMUM OF 5' INTO CHAMBER END CAPS.
8. INSPECTION DURING THE INSTALLATION BY THE ENGINEER, OWNER OR OTHER REPRESENTATIVE IS RECOMMENDED. THE INSPECTION SHALL INCLUDE OBSERVATIONS OF THE CHAMBER SYMMETRY DURING BACKFILLING TO ENSURE THE CONTRACTOR'S METHODS ARE NOT CAUSING UNACCEPTABLE DISTORTION OF THE CHAMBERS.
9. AN ADS FIELD TECHNICIAN WILL CONDUCT A PRECONSTRUCTION MEETING TO TRAIN ALL REPRESENTATIVES INSPECTING THE PROJECT AND WILL PERFORM MANDATORY SITE INSPECTIONS.



MEDICAL DISTRICT
EVANSVILLE, IN

REV	DRW	CHK	DESCRIPTION
12-14-15	CA	GP	COMBINED BEDS REMOVED ROWS
02/23/16	DAF	GP	LAYOUT CHANGES PER NEW PLANS

DATE: 11-10-15 DRAWN: CALM
PROJECT #: 122511 CHECKED: KMS

StormTech
4640 TRUEMAN BLVD
HILLIARD, OH 43026
1-800-733-7473

0 15' 30'

SHEET
6 OF 26

PROPOSED LAYOUT SYSTEM #21

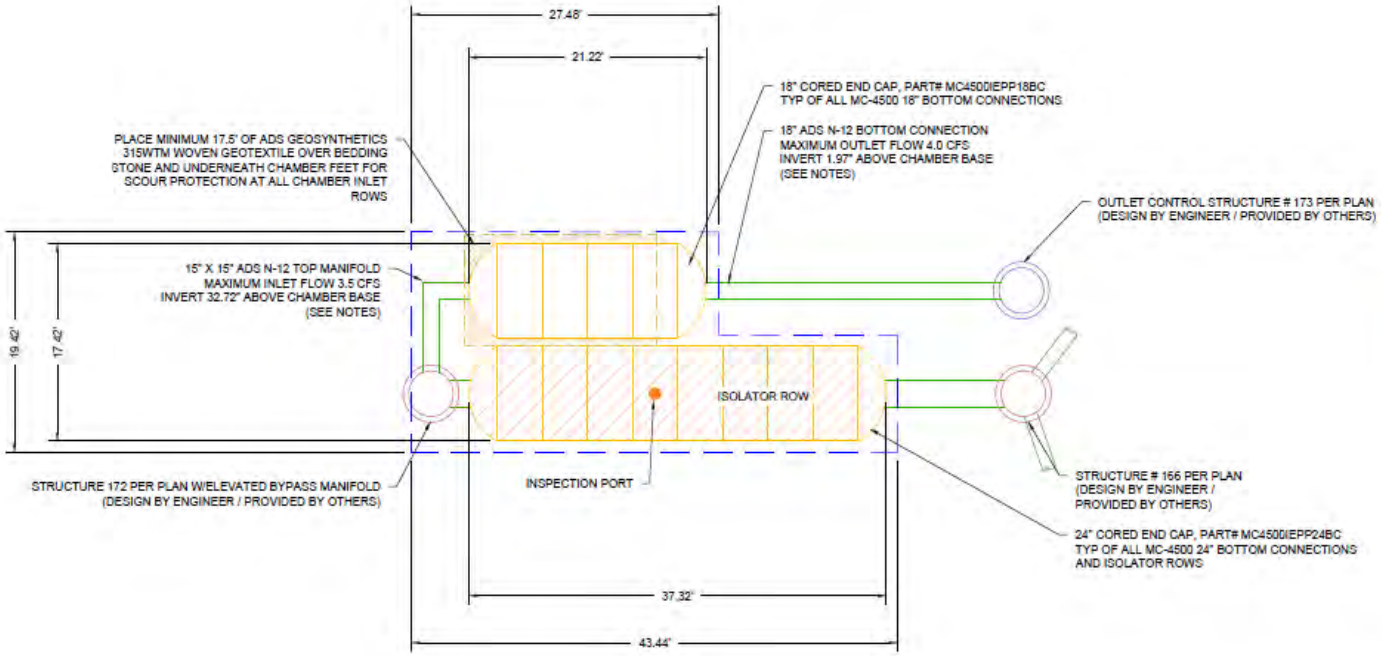
(12) STORMTECH MC-4500 CHAMBERS
(4) STORMTECH MC-4500 END CAPS
INSTALLED WITH 12" COVER STONE, 9" BASE STONE, 40% STONE VOID
INSTALLED SYSTEM VOLUME: 2,737 CF (PERIMETER STONE INCLUDED)
AREA OF SYSTEM: 698 FT²
PERIMETER OF SYSTEM: 137 FT

NOTES

- MANIFOLD SIZE TO BE DETERMINED BY SITE DESIGN ENGINEER. SEE TECH SHEET #7 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 MANIFOLD COMPONENTS IN THE FIELD.

PROPOSED ELEVATIONS

MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED):	387.81
MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC):	383.31
MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC):	382.81
MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT):	382.81
MINIMUM ALLOWABLE GRADE (TOP OF RIGID CONCRETE PAVEMENT):	382.81
TOP OF STONE:	381.81
TOP OF CHAMBER:	380.81
15" TOP MANIFOLD INVERT:	378.54
24" ISOLATOR ROW INVERT:	376.00
18" BOTTOM CONNECTION INVERT:	375.97
BOTTOM OF CHAMBER:	375.81
BOTTOM OF STONE:	375.06



REV	DRW	CHK	DESCRIPTION
12-14-15	CA	GF	COMBINED BIDS/ADVISE ROWS
9/23/16	DAF	GF	LAYOUT CHANGES PER NEW PLANS

MEDICAL DISTRICT
EVANSVILLE, IN

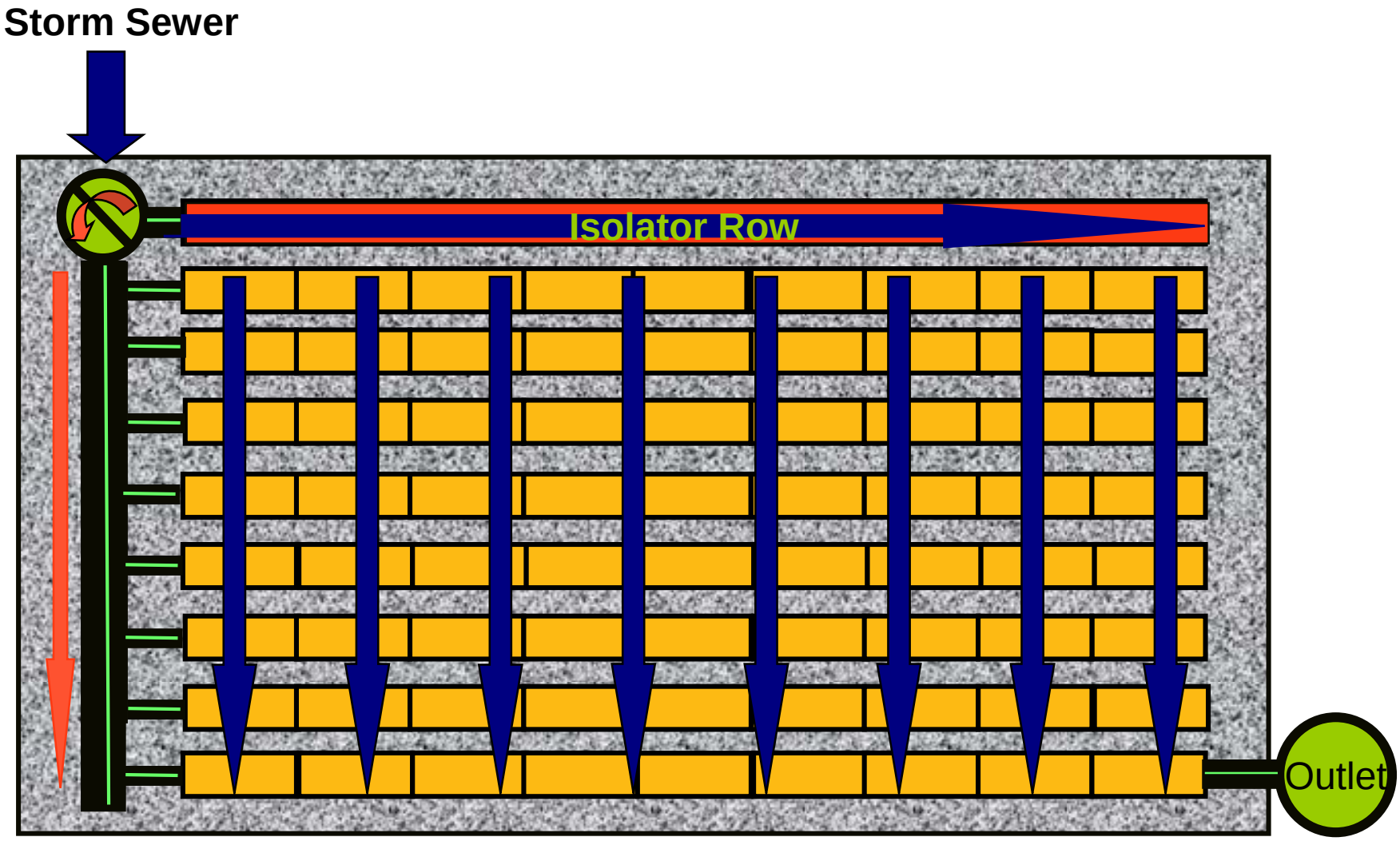
DATE 11-10-15 | DRAWN CA/JLM | PROJECT # 122511 | CHECKED KMS

StormTech
70 INWOOD ROAD, SUITE 3 | ROCKY HILL, CT | 06067
(860)829-0160 | (888)892-2694 | WWW.STORMTECH.COM

4640 TRUEMAN BLVD
HILLIARD, OH 43026
1-800-733-7473

0 10' 20'

How Does It Work?



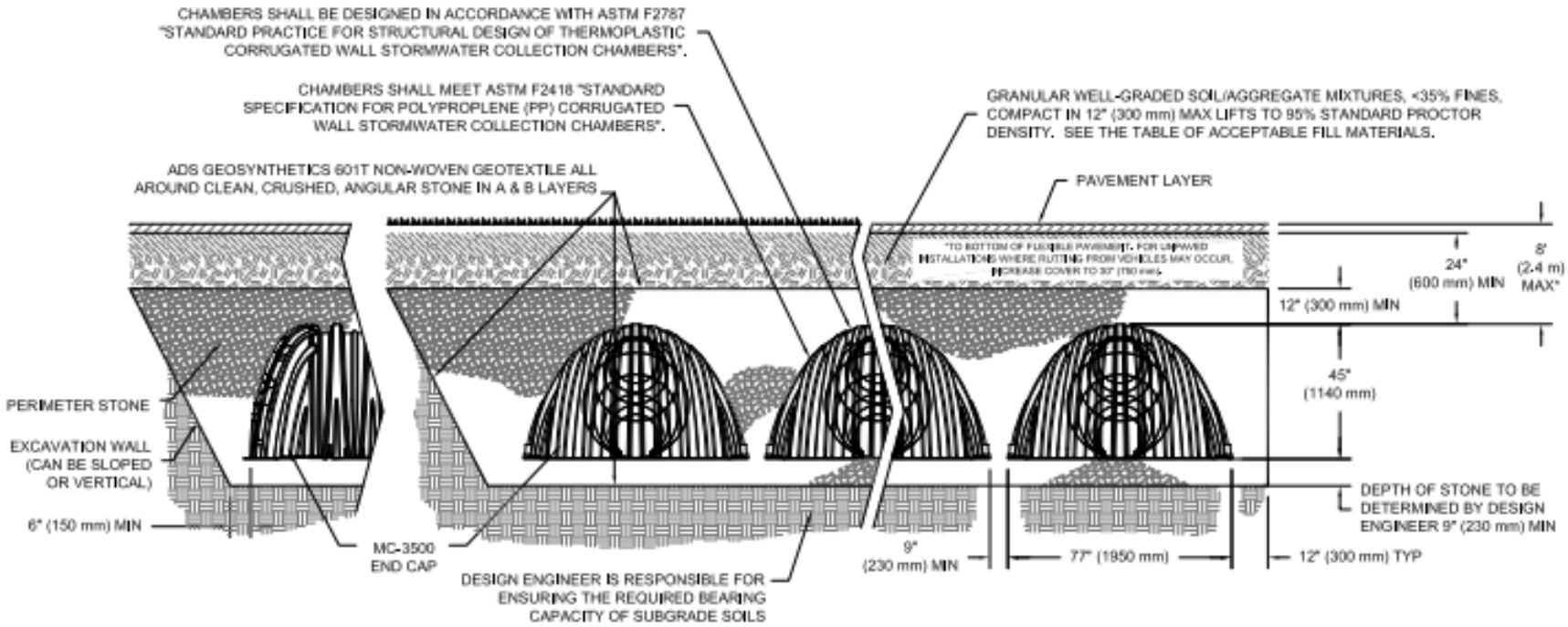
Isolator Row

Isolator Row Treatment Flow Rate

Model	Specific Flow Rate	Bottom Area	Flow Per Model
StormTech SC-310	2.5 gpm/sf	17.7 sf	0.10 cfs
StormTech SC-740	2.5 gpm/sf	27.8 sf	0.15 cfs
StormTech DC-780	2.5 gpm/sf	27.8 sf	0.15 cfs
StormTech MC-3500	2.5 gpm/sf	43.2 sf	0.24 cfs
StormTech MC-4500	2.5 gpm/sf	30.1 sf	0.17 cfs

Easy to Design

40% of Stone Volume is Void Space Available for Storage Volume



*FOR COVER DEPTHS GREATER THAN 8.0' PLEASE CONTACT STORMTECH

THE INSTALLED CHAMBER SYSTEM SHALL PROVIDE THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS SECTION 12.12 FOR EARTH AND LIVE LOADS, WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.

MC-4500 System - Typical Cross Section

Bearing Capacity Requirements

2.0 Foundations for Chambers

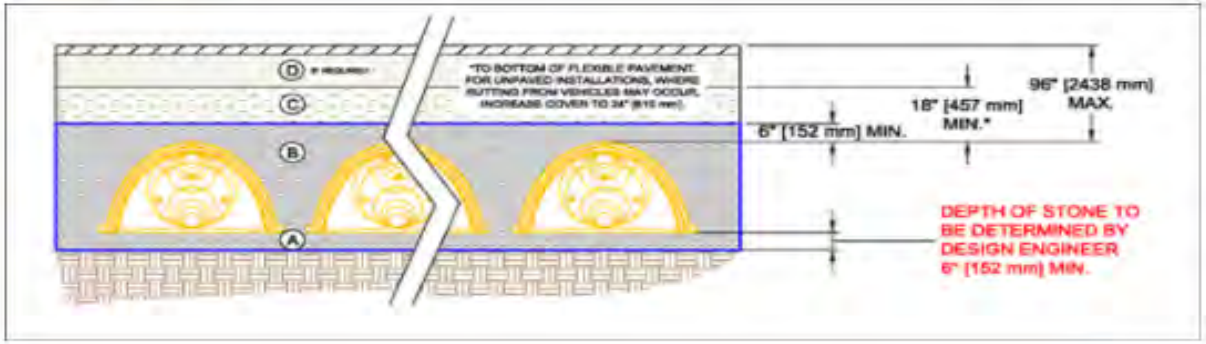
TABLE 2 – MC-4500 Minimum Required Foundation Depth in inches (millimeters)
Assumes 9" (230 mm) row spacing.

Cover Hgt. ft. (m)	Minimum Bearing Resistance for Service Loads ksf (kPa)																								
	4.4 (211)	4.3 (206)	4.2 (201)	4.1 (196)	4.0 (192)	3.9 (187)	3.8 (182)	3.7 (177)	3.6 (172)	3.5 (168)	3.4 (163)	3.3 (158)	3.2 (153)	3.1 (148)	3.0 (144)	2.9 (139)	2.8 (134)	2.7 (129)	2.6 (124)	2.5 (120)	2.4 (115)	2.3 (110)	2.2 (105)	2.1 (101)	2.0 (96)
2.0 (0.61)	9 (230)	9 (230)	9 (230)	9 (230)	9 (230)	9 (230)	9 (230)	9 (230)	9 (230)	9 (230)	9 (230)	9 (230)	9 (230)	9 (230)	9 (230)	9 (230)	9 (230)	9 (230)	12 (300)	12 (300)	12 (300)	15 (375)	15 (375)	15 (375)	18 (450)
2.5 (0.76)	9 (230)	9 (230)	9 (230)	9 (230)	9 (230)	9 (230)	9 (230)	9 (230)	9 (230)	9 (230)	9 (230)	9 (230)	9 (230)	9 (230)	9 (230)	9 (230)	9 (230)	12 (300)	12 (300)	12 (300)	15 (375)	15 (375)	18 (450)	18 (450)	24 (600)
3.0 (0.91)	9 (230)	9 (230)	9 (230)	9 (230)	9 (230)	9 (230)	9 (230)	9 (230)	9 (230)	9 (230)	9 (230)	9 (230)	9 (230)	9 (230)	9 (230)	12 (300)	12 (300)	12 (300)	15 (375)	15 (375)	18 (450)	18 (450)	18 (450)	24 (600)	24 (600)
3.5 (1.07)	9 (230)	9 (230)	9 (230)	9 (230)	9 (230)	9 (230)	9 (230)	9 (230)	9 (230)	9 (230)	9 (230)	9 (230)	9 (230)	12 (300)	12 (300)	12 (300)	15 (375)	15 (375)	15 (375)	18 (450)	18 (450)	24 (600)	24 (600)	24 (600)	24 (600)
4.0 (1.22)	9 (230)	9 (230)	9 (230)	9 (230)	9 (230)	9 (230)	9 (230)	9 (230)	9 (230)	9 (230)	9 (230)	12 (300)	12 (300)	12 (300)	15 (375)	15 (375)	15 (375)	18 (450)	18 (450)	18 (450)	24 (600)	24 (600)	24 (600)	24 (600)	30 (750)
4.5 (1.37)	9 (230)	9 (230)	9 (230)	9 (230)	9 (230)	9 (230)	9 (230)	9 (230)	9 (230)	12 (300)	12 (300)	12 (300)	12 (300)	15 (375)	15 (375)	15 (375)	18 (450)	18 (450)	24 (600)	24 (600)	24 (600)	24 (600)	30 (750)	30 (750)	30 (750)
5.0 (1.52)	9 (230)	9 (230)	9 (230)	9 (230)	9 (230)	9 (230)	9 (230)	12 (300)	12 (300)	12 (300)	12 (300)	15 (375)	15 (375)	15 (375)	18 (450)	18 (450)	18 (450)	24 (600)	24 (600)	24 (600)	24 (600)	30 (750)	30 (750)	30 (750)	36 (900)
5.5 (1.68)	9 (230)	9 (230)	9 (230)	9 (230)	9 (230)	12 (300)	12 (300)	12 (300)	12 (300)	15 (375)	15 (375)	15 (375)	18 (450)	18 (450)	18 (450)	24 (600)	24 (600)	24 (600)	24 (600)	24 (600)	30 (750)	30 (750)	30 (750)	36 (900)	36 (900)
6.0 (1.83)	9 (230)	9 (230)	9 (230)	12 (300)	12 (300)	12 (300)	12 (300)	15 (375)	15 (375)	15 (375)	15 (375)	18 (450)	18 (450)	18 (450)	24 (600)	24 (600)	24 (600)	24 (600)	30 (750)	30 (750)	30 (750)	30 (750)	36 (900)	36 (900)	36 (900)
6.5 (1.98)	9 (230)	12 (300)	12 (300)	12 (300)	12 (300)	15 (375)	15 (375)	15 (375)	15 (375)	18 (450)	18 (450)	18 (450)	24 (600)	24 (600)	24 (600)	24 (600)	24 (600)	30 (750)	30 (750)	30 (750)	30 (750)	36 (900)	36 (900)	36 (900)	42 (1050)
7.0 (2.13)	12 (300)	12 (300)	12 (300)	12 (300)	15 (375)	15 (375)	15 (375)	15 (375)	18 (450)	18 (450)	18 (450)	24 (600)	24 (600)	24 (600)	24 (600)	24 (600)	30 (750)	30 (750)	30 (750)	30 (750)	36 (900)	36 (900)	36 (900)	42 (1050)	42 (1050)

NOTE: The design engineer is solely responsible for assessing the bearing resistance (allowable bearing capacity) of the subgrade soils and determining the depth of foundation stone. Subgrade bearing resistance should be assessed with consideration for the range of soil moisture conditions expected under a stormwater system.

Acceptable Fill Materials

SC-Series



Material Location		Description	AASHTO M43 Designation (1)	Compaction/ Density Requirement
D	Fill material for layer D starts from the top of layer C to the bottom of flexible pavement or unpaved finish grade above. Note that pavement sub-base may be part of the D layer.	Any soil/rock materials, native soils, or per engineer's plans. Check plans for pavement subgrade requirements.	N/A	Prepare per engineer's plans. Paved installations may have stringent material and preparation requirements.
C	Fill material for layer C starts from the embedment stone (B layer) to 18" (457 mm) above the top of the chamber. Note that pavement sub-base may be part of the C layer.	Granular well-graded soil/aggregate mixtures, <35% fines. Most pavement sub-base materials can be used in lieu of this layer.	3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	Begin compaction after 12" (305 mm) of material over the chambers is reached. Compact additional layers in 6" (152 mm) lifts to a minimum 95% standard proctor density. (2) Roller gross vehicle weight not to exceed 12,000 lbs. (53 kN). Dynamic force not to exceed 20,000 lbs. (89 kN).
B	Embedment stone surrounding chambers from the foundation stone to the C layer above.	Clean, crushed, angular stone, nominal size distribution between 3/4" - 2" (19 mm -51 mm)	3, 357, 4, 467, 5, 56, 57	No compaction required.
A	Foundation stone below chambers from subgrade up to the foot (bottom) of the chamber.	Clean, crushed, angular stone, nominal size distribution between 3/4" - 2" (19 mm - 51 mm)	3, 357, 4, 467, 5, 56, 57	Plate compact or roll to achieve a 95% standard proctor density.(2)

Common Questions & Interesting Facts

20 years

Injection Molded

The “Family”

MEETS ASTM F2418 & F2787

MC-4500 MC-3500 DC-780 SC-740 SC-310 SC-160LP

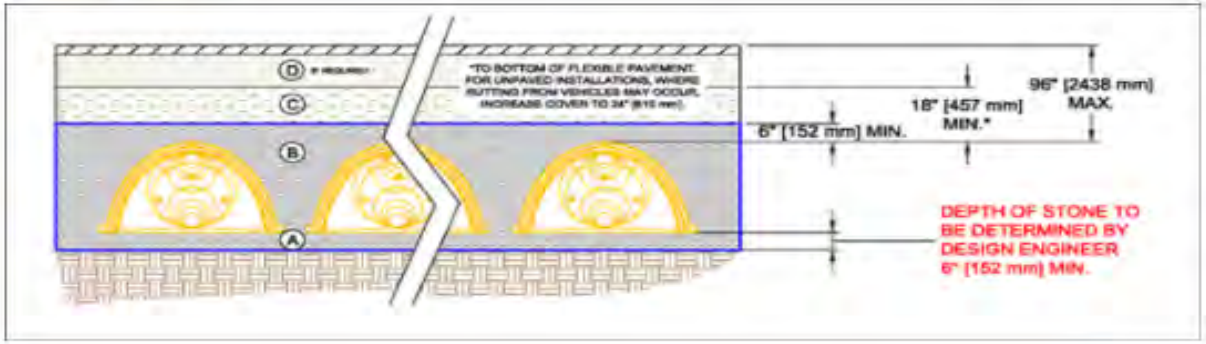
DS StormTech

50,000,000 CF of Storage Installed Annually

2% of that is in Indiana

Acceptable Fill Materials

SC-Series



Material Location		Description	AASHTO M43 Designation (1)	Compaction/ Density Requirement
D	Fill material for layer D starts from the top of layer C to the bottom of flexible pavement or unpaved finish grade above. Note that pavement sub-base may be part of the D layer.	Any soil/rock materials, native soils, or per engineer's plans. Check plans for pavement subgrade requirements.	N/A	Prepare per engineer's plans. Paved installations may have stringent material and preparation requirements.
C	Fill material for layer C starts from the embedment stone (B layer) to 18" (457 mm) above the top of the chamber. Note that pavement sub-base may be part of the C layer.	Granular well-graded soil/aggregate mixtures, <35% fines. Most pavement sub-base materials can be used in lieu of this layer.	3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	Begin compaction after 12" (305 mm) of material over the chambers is reached. Compact additional layers in 6" (152 mm) lifts to a minimum 95% standard proctor density. (2) Roller gross vehicle weight not to exceed 12,000 lbs. (53 kN). Dynamic force not to exceed 20,000 lbs. (89 kN).
B	Embedment stone surrounding chambers from the foundation stone to the C layer above.	Clean, crushed, angular stone, nominal size distribution between 3/4" - 2" (19 mm -51 mm)	3, 357, 4, 467, 5, 56, 57	No compaction required.
A	Foundation stone below chambers from subgrade up to the foot (bottom) of the chamber.	Clean, crushed, angular stone, nominal size distribution between 3/4" - 2" (19 mm - 51 mm)	3, 357, 4, 467, 5, 56, 57	Plate compact or roll to achieve a 95% standard proctor density.(2)

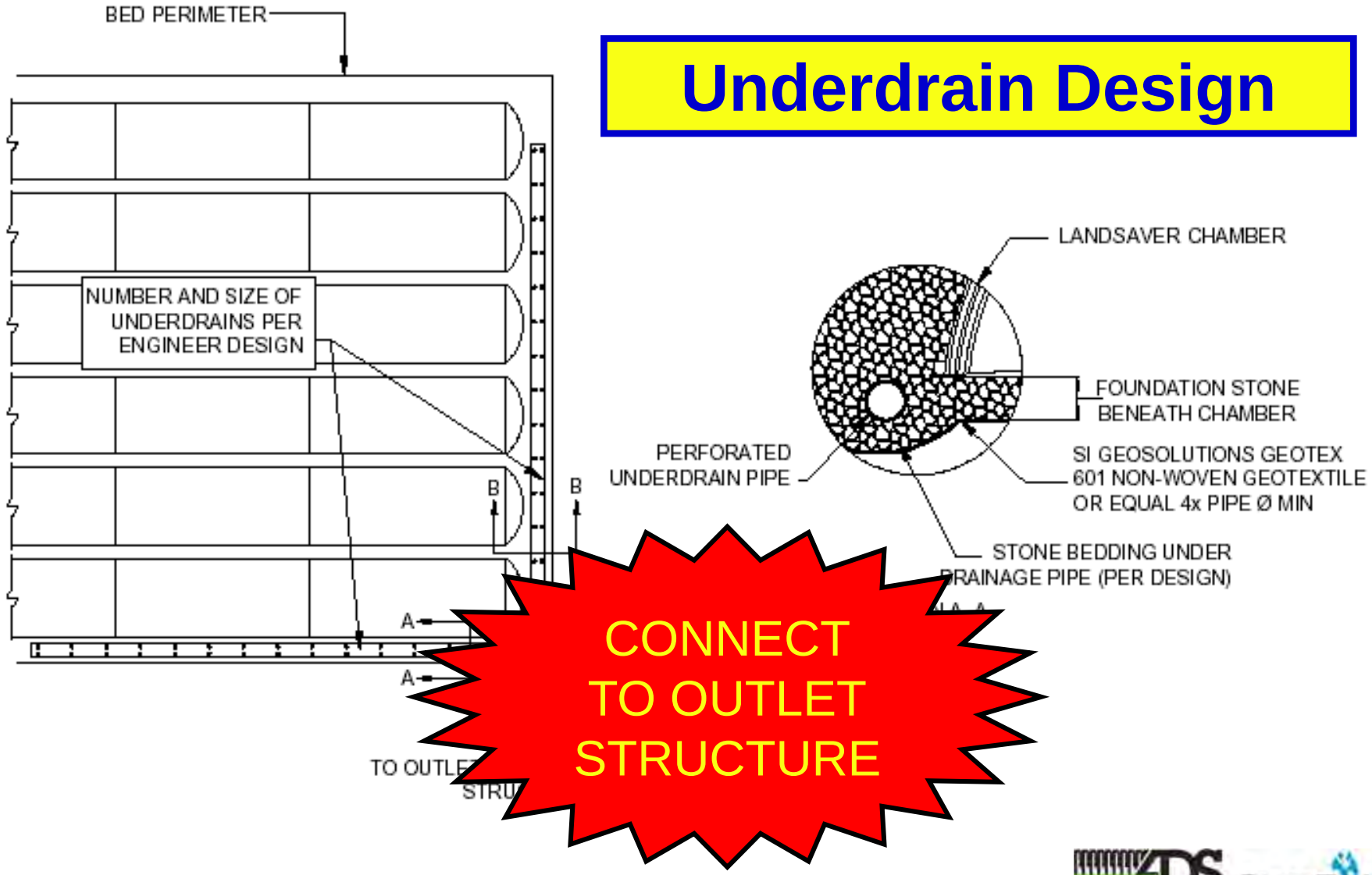
Recycled Concrete as Backfill

Per ADS Tech Sheet #4

The following are specifications that StormTech recommends for the acceptance of reclaimed crushed concrete based on criteria for structural integrity.

1. Gradation: The gradation shall meet AASHTO M43 gradations as listed in the "Acceptable Fill Materials Table" in the StormTech Design Manual. Note that the material shall be processed such that fines are 5% or less.
2. The material shall meet ASTM D2488 angular or subangular classification.
3. Deleterious materials shall be limited to: a) maximum 20% reclaimed pavement materials and b) maximum 0.15% building materials.
4. Material hardness – Maximum loss of 40% in the LA Abrasion test (AASHTO T96)
5. Freeze-Thaw Resistance – Maximum 12% loss after 5 cycles in magnesium sulfate solution (AASHTO T104)
6. The design shall be in accordance with the StormTech Design Manual and Installation shall be in accordance with the StormTech Installation Instructions.

Easy to Design



So What Does a Stormtech System Cost?

$5-$7/CF of Storage

10” Inspection Port

StormTech Design Tool

StormTech Design Tool

EWSU

CSO Mitigation Projects

Christian Life Center

Christian Life Center

Vine Street Parking Lot

Center of Hope

Center of Hope

Industry News:

AASHTO M294R

ADS Barracuda

HP Pipe

HP Storm

HIGH PERFORMANCE

Remember:

- Joints
- Stiffness