CULTEC CONTACTOR® FIELD DRAIN C-4HD SPECIFICATIONS

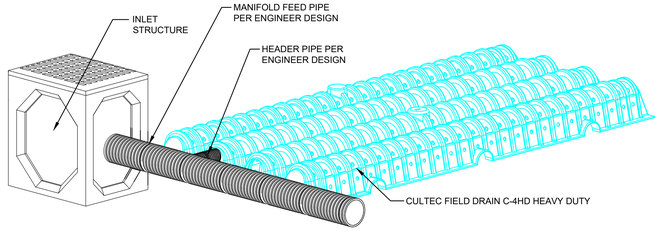
GENERAL
CULTEC CONTACTOR FIELD DRAIN C-4HD CHAMBERS ARE DESIGNED FOR UNDERGROUND STORMWATER MANAGEMENT. THE CHAMBERS MAY BE USED FOR RETENTION, RECHARGING, DETENTION OR CONTROLLING THE FLOW OF ON-SITE STORMWATER RUNOFF.

CHAMBER PARAMETERS

1. THE CHAMBERS WILL BE MANUFACTURED IN THE U.S.A. BY CULTEC, INC. OF BROOKFIELD, CT. (203-775-4416 OR 1-800-428-5832)
2. THE CHAMBER WILL BE VACUUM THERMOFORMED OF BLACK HIGH MOLECULAR WEIGHT HIGH DENSITY POLYETHYLENE (HMWHDPE).
3. THE CHAMBER WILL BE ARCHED IN SHAPE.
4. THE CHAMBER WILL BE OPEN-BOTTOMED.
5. THE CHAMBER WILL BE JOINED USING AN INTERLOCKING OVERLAPPING RIB METHOD. CONNECTIONS MUST BE FULLY SHOULDERED OVERLAPPING RIBS, HAVING NO SEPARATE COUPLINGS OR SEPARATE END WALLS.
6. THE NOMINAL CHAMBER DIMENSIONS OF THE CULTEC CONTACTOR FIELD DRAIN C-4HD SHALL BE 8.5 INCHES (216 MM) TALL, 48 INCHES (1219 MM) WIDE AND 8.5 FEET (2.6 M) LONG. THE INSTALLED LENGTH OF A JOINED CONTACTOR FIELD DRAIN C-4HD SHALL BE 8.0 FEET (2.4 M).
7. INLET OPENING ON THE CHAMBER ENDWALL IS 4.5 INCHES (115 MM).
8. THE NOMINAL STORAGE VOLUME OF THE CONTACTOR FIELD DRAIN C-4HD CHAMBER WILL BE 1.692 FT3 / FT (0.16 M3 / M) - WITHOUT STONE. THE NOMINAL STORAGE VOLUME OF A SINGLE CONTACTOR FIELD DRAIN C-4RHD STAND ALONE UNIT SHALL BE 14.38 FT3 (0.41 M3) - WITHOUT STONE. THE NOMINAL STORAGE VOLUME OF A JOINED CONTACTOR FIELD DRAIN C-4EHD AS AN INTERMEDIATE UNIT SHALL BE 13.54 FT3 (0.38 M3) - WITHOUT STONE. THE NOMINAL STORAGE VOLUME OF THE LENGTH ADJUSTMENT AMOUNT PER RUN SHALL BE 0.846 FT3 (0.02 M3) - WITHOUT STONE.
9. THE CONTACTOR FIELD DRAIN C-4HD CHAMBER WILL HAVE EIGHTY DISCHARGE HOLES BORED INTO THE SIDEWALLS OF THE UNIT'S CORE TO PROMOTE LATERAL CONVEYANCE OF WATER.
10. THE CONTACTOR FIELD DRAIN C-4HD CHAMBER SHALL HAVE 100 CORRUGATIONS.
11. THE ENDWALL OF THE CHAMBER, WHEN PRESENT, WILL BE AN INTEGRAL PART OF THE CONTINUOUSLY FORMED UNIT. SEPARATE END PLATES CANNOT BE USED WITH THIS UNIT.
12. THE CONTACTOR FIELD DRAIN C-4RHD STARTER/STAND ALONE UNIT MUST BE FORMED AS A WHOLE CHAMBER HAVING TWO FULLY FORMED INTEGRAL ENDWALLS AND HAVING NO SEPARATE END PLATES OR SEPARATE END WALLS.
13. THE CONTACTOR FIELD DRAIN C-4EHD MIDDLE/END UNIT MUST BE FORMED AS A WHOLE CHAMBER HAVING ONE FULLY FORMED INTEGRAL ENDWALL AND ONE FULLY OPEN END WALL AND HAVING NO SEPARATE END PLATES OR END WALLS.
14. CHAMBERS MUST HAVE HORIZONTAL STIFFENING FLEX REDUCTION STEPS BETWEEN THE RIBS.
15. HEAVY DUTY UNITS ARE DESIGNATED BY A COLORED STRIPE FORMED INTO THE PART ALONG THE LENGTH OF THE CHAMBER.
16. THE CHAMBER WILL HAVE A RAISED INTEGRAL CAP AT THE TOP OF THE ARCH IN THE CENTER OF EACH UNIT TO BE USED AS AN OPTIONAL INSPECTION PORT OR CLEAN-OUT.
17. THE UNITS MAY BE TRIMMED TO CUSTOM LENGTHS BY CUTTING BACK TO ANY CORRUGATION ON THE LARGE RIB END.
18. THE CHAMBER SHALL BE MANUFACTURED IN AN ISO 9001:2008 CERTIFIED FACILITY.
19. MAXIMUM ALLOWABLE COVER OVER THE TOP OF THE CHAMBER SHALL BE 12 FEET (3.66 M) FOR THE HEAVY DUTY VERSION.
20. THE CHAMBER WILL BE DESIGNED TO WITHSTAND TRAFFIC LOADS WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS.

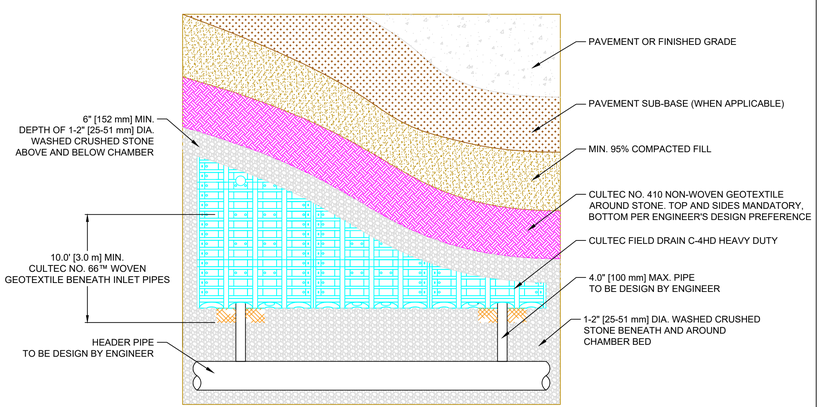
C-4HD 1.0

GENERAL NOTES



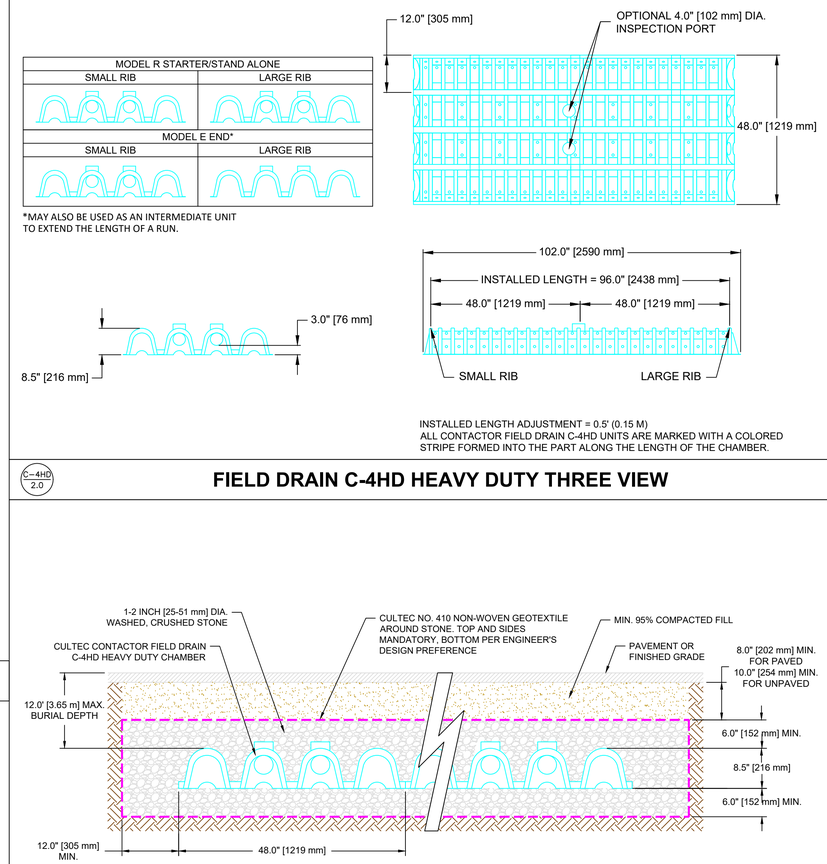
C-4HD 4.0

FIELD DRAIN C-4HD HEAVY DUTY TYPICAL INLET CONNECTION



C-4HD 7.0

FIELD DRAIN C-4HD HEAVY DUTY PLAN VIEW



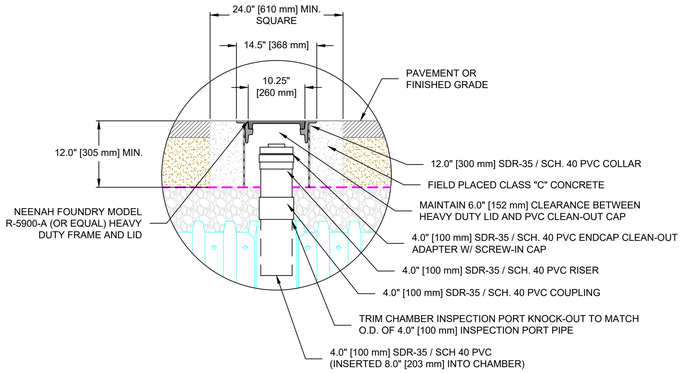
INSTALLED LENGTH ADJUSTMENT = 0.5' (0.15 M)
ALL CONTACTOR FIELD DRAIN C-4HD UNITS ARE MARKED WITH A COLORED STRIPE FORMED INTO THE PART ALONG THE LENGTH OF THE CHAMBER.

C-4HD 2.0

FIELD DRAIN C-4HD HEAVY DUTY THREE VIEW

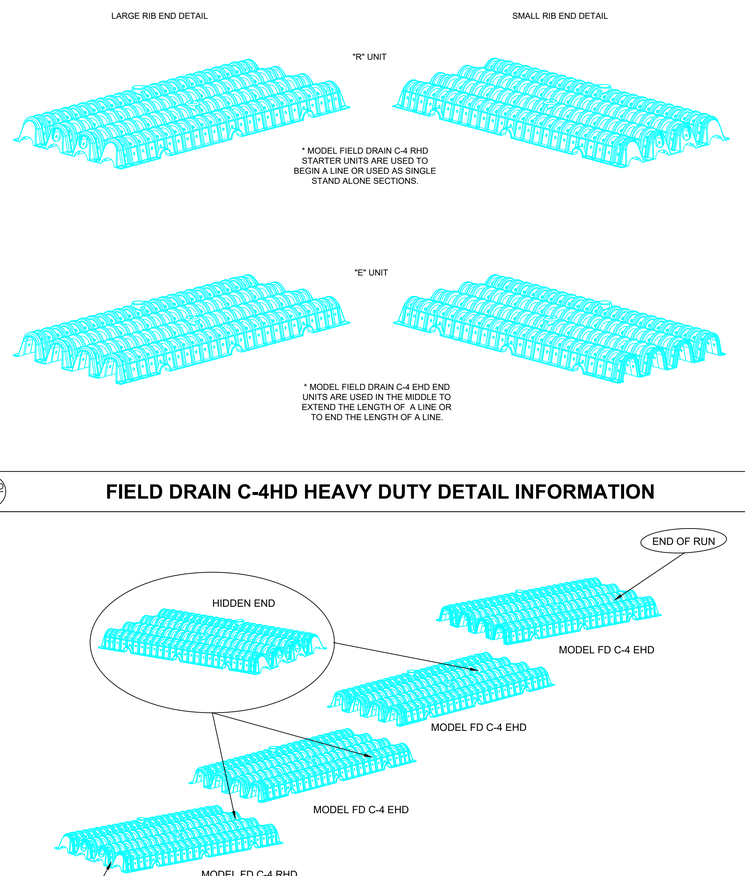
C-4HD 5.0

FIELD DRAIN C-4HD HEAVY DUTY TYPICAL CROSS SECTION



C-4HD 8.0

OPTIONAL INSPECTION PORT- ZOOM DETAIL

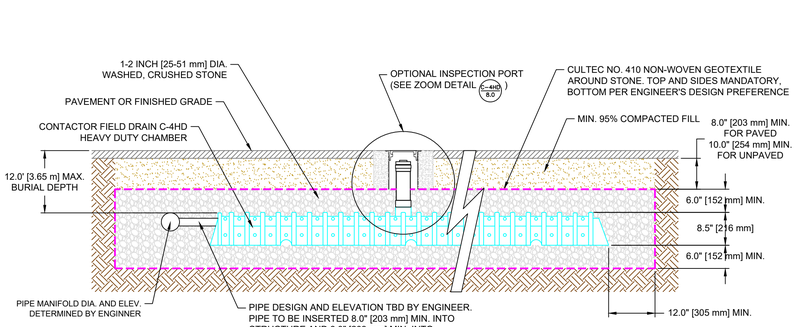


C-4HD 3.0

FIELD DRAIN C-4HD HEAVY DUTY DETAIL INFORMATION

C-4HD 6.0

FIELD DRAIN C-4HD HEAVY DUTY TYPICAL INTERLOCK



C-4HD 9.0

FIELD DRAIN C-4HD MANIFOLD - OPTIONAL INSPECTION PORT DETAIL

CULTEC, Inc.
Subsurface Stormwater Management Systems
P.O. Box 280
878 Federal Road
Brookfield, CT 06804
www.cultec.com
PH: (203) 775-4416
PH: (800) 4-CULTEC
FX: (203) 775-1462
tech@cultec.com

CONTACTOR FIELD DRAIN C-4HD HEAVY DUTY
DETAIL SHEET
TRAFFIC APPLICATION

CONTACTOR FIELD DRAIN C-4HD CHAMBER

PROJECT NO:		DATE:	02/2016
DESIGNED BY:	CULTEC, INC	DRAWN BY:	TECH
SCALE:	N.T.S.	SHEET NO:	1 OF 2

CULTEC CONTACTOR FIELD DRAIN C-4SD STANDARD DUTY CHAMBER SPECIFICATIONS

GENERAL
CULTEC CONTACTOR FIELD DRAIN C-4 STANDARD DUTY CHAMBERS ARE DESIGNED FOR UNDERGROUND STORMWATER MANAGEMENT. THE CHAMBERS MAY BE USED FOR RETENTION, RECHARGING, DETENTION, AND CONTROLLING THE FLOW OF ON-SITE STORMWATER RUNOFF.

CHAMBER PROPERTIES

1. THE CHAMBERS WILL BE MANUFACTURED BY CULTEC, INC. OF BROOKFIELD, CT (203-775-4416).

2. CONTACT CULTEC, INC. AT 203-775-4416 FOR SUBMITTAL PACKAGES AND TO PURCHASE PRODUCT.

3. THE NOMINAL CHAMBER DIMENSIONS OF THE CULTEC CONTACTOR FIELD DRAIN C-4 SHALL BE 8.5 INCHES TALL, 48 INCHES WIDE AND 8.5 FEET LONG. THE INSTALLED LENGTH OF A JOINED UNIT SHALL BE 8 FEET.

4. THE CHAMBER COMES STANDARD WITH A 4.5 INCH INLET/OUTLET OPENING.

5. THE CHAMBER WILL HAVE 100 CORRUGATIONS.

6. THE NOMINAL STORAGE VOLUME OF THE CONTACTOR FIELD DRAIN C-4 WILL BE 1.692 CF/LF.

7. THE CHAMBERS WILL BE VACUUM THERMOFORMED OF BLACK HIGH MOLECULAR WEIGHT HIGH DENSITY POLYETHYLENE (HMWHDPE) IN AN ISO-9001:2008 CERTIFIED FACILITY.

8. CHAMBERS ARE MANUFACTURED WITH AN OPEN BOTTOM, INTEGRALLY FORMED END WALLS AND PERFORATED SIDEWALLS.

9. THE CHAMBERS MUST HAVE ACHIEVED A MINIMUM OF 5 YEARS INSTALLATION HISTORY WITHOUT STRUCTURAL DEFICIENCIES.

10. THE CHAMBERS WILL BE JOINED USING AN INTERLOCKING OVERLAPPING RIB METHOD. CONNECTIONS MUST BE FULLY SHOULDERED OVERLAPPING RIBS, HAVING NO SEPARATE COUPLINGS OR SEPARATE END WALLS.

11. THE CHAMBER'S END WALL WILL BE AN INTEGRAL PART OF THE CONTINUOUSLY FORMED UNIT. SEPARATE INLET OR END PLATES CANNOT BE USED WITH THIS UNIT.

12. THE CONTACTOR FIELD DRAIN C-4RSD STARTER CHAMBER MUST BE UNIFORMLY FORMED AS A WHOLE PART OF THE ELONGATED CHAMBER UNIT HAVING TWO FULLY FORMED INTEGRAL END WALLS, AND HAVING NO SEPARATE END PLATES OR SEPARATE END WALLS.

13. THE CONTACTOR FIELD DRAIN C-4ESD MIDDLE/END CHAMBER MUST BE UNIFORMLY FORMED AS A WHOLE PART OF THE ELONGATED CHAMBER UNIT HAVING ONE FULLY FORMED INTEGRAL END WALL, AND HAVING NO SEPARATE END PLATES OR SEPARATE END WALLS.

14. ALL CHAMBERS WILL BE ARCHED IN SHAPE AND HAVE EIGHTY 3/4 INCH ROUND DISCHARGE HOLES BORED INTO THE SIDEWALLS OF THE UNIT'S CORE TO PROMOTE INFILTRATION/EXFILTRATION.

15. CHAMBERS MUST HAVE HORIZONTAL STIFFENING FLEX REDUCTION STEPS BETWEEN THE RIBS.

16. CONTACTOR FIELD DRAIN C-4SD STANDARD DUTY CHAMBERS ARE DESIGNED TO WITHSTAND TRAFFIC LOADS WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS. CONTACTOR HEAVY DUTY UNITS ARE DESIGNATED BY A COLORED STRIPE FORMED INTO THE PART ALONG THE LENGTH OF THE CHAMBER.

18. POLYETHYLENE CHAMBERS MUST HAVE THE ABILITY TO ACCEPT AND CARRY PIPE THROUGH ITS INTEGRALLY FORMED VERTICAL SUPPORT WALL WITHOUT THE USE OF SEPARATE PIPE HANGERS.

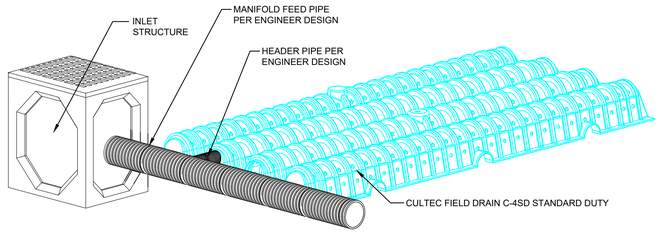
19. UNITS WILL HAVE A RAISED INTEGRAL CAP AT THE TOP OF THE ARCH IN THE CENTER OF EACH UNIT TO BE USED AS AN OPTIONAL INSPECTION PORT OR CLEAN-OUT.

20. THE UNITS MAY BE TRIMMED TO CUSTOM LENGTHS BY CUTTING BACK TO ANY CORRUGATION.

21. REPEATING SUPPORT PANELS AND END WALLS OF THE ELONGATED CHAMBER SHALL BE SPACED EVERY 8 FEET.

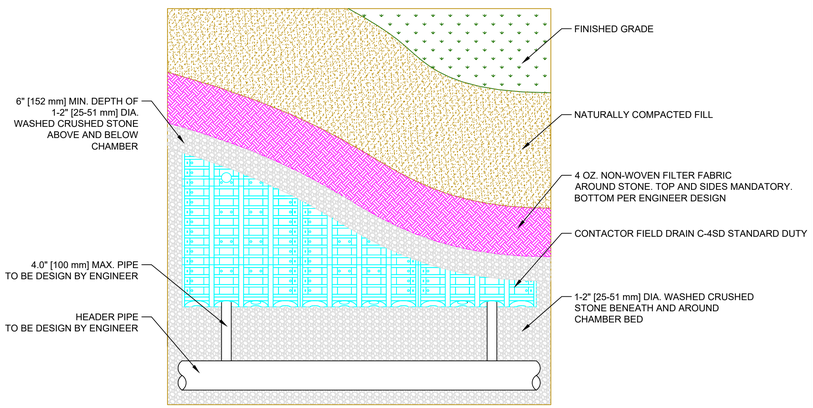
C-4SD 1.0

GENERAL NOTES



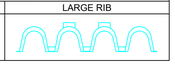
C-4SD 4.0

FIELD DRAIN C-4SD STANDARD DUTY TYPICAL INLET CONNECTION

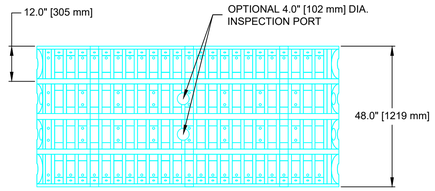


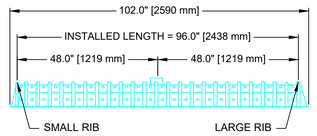
C-4SD 7.0

FIELD DRAIN C-4SD STANDARD DUTY PLAN VIEW

MODEL R STARTER/STAND ALONE	
SMALL RIB	LARGE RIB
	
MODEL E END*	
SMALL RIB	LARGE RIB
	

*MAY ALSO BE USED AS AN INTERMEDIATE UNIT TO EXTEND THE LENGTH OF A RUN.

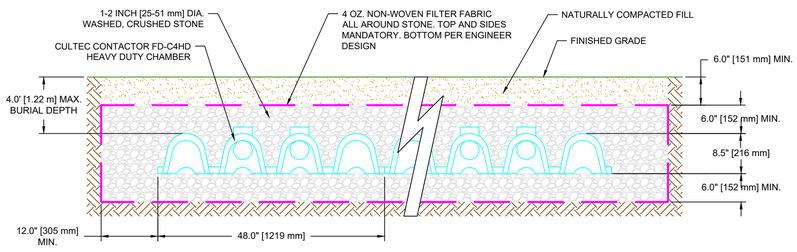




INSTALLED LENGTH ADJUSTMENT = 0.5' (0.15 M)
ALL CONTACTOR FIELD DRAIN C-4HD UNITS ARE MARKED WITH A COLORED STRIPE FORMED INTO THE PART ALONG THE LENGTH OF THE CHAMBER.

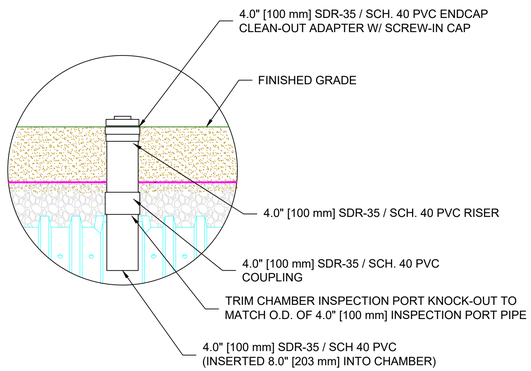
C-4SD 2.0

FIELD DRAIN C-4SD STANDARD DUTY THREE VIEW



C-4SD 5.0

FIELD DRAIN C-4SD STANDARD DUTY TYPICAL CROSS SECTION



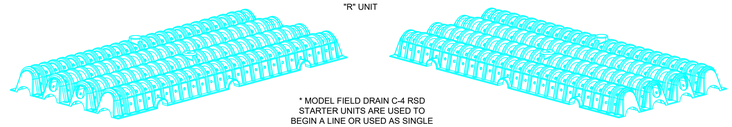
C-4SD 8.0

OPTIONAL INSPECTION PORT- ZOOM DETAIL

LARGE RIB END DETAIL

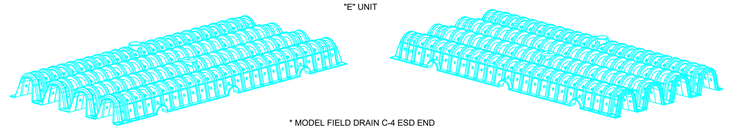
SMALL RIB END DETAIL

"R" UNIT



* MODEL FIELD DRAIN C-4 RSD STARTER UNITS ARE USED TO BEGIN A LINE OR USED AS SINGLE STAND ALONE SECTIONS.

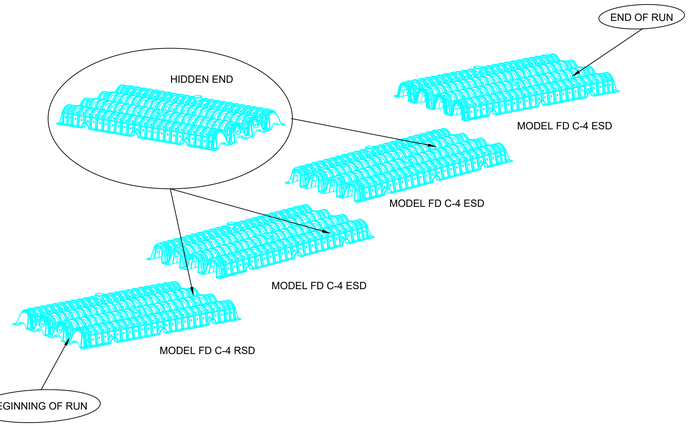
"E" UNIT



* MODEL FIELD DRAIN C-4 ESD END UNITS ARE USED IN THE MIDDLE TO EXTEND THE LENGTH OF A LINE OR TO END THE LENGTH OF A LINE.

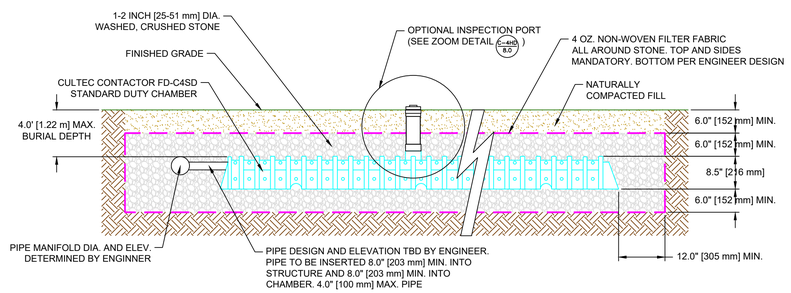
C-4SD 3.0

FIELD DRAIN C-4SD STANDARD DUTY DETAIL INFORMATION



C-4SD 6.0

FIELD DRAIN C-4SD STANDARD DUTY TYPICAL INTERLOCK



C-4SD 9.0

FIELD DRAIN C-4SD MANIFOLD - OPTIONAL INSPECTION PORT DETAIL

TM
CULTEC, Inc.
Subsurface Stormwater Management Systems
P.O. Box 280
878 Federal Road
Brookfield, CT 06804
www.cultec.com
PH: (203) 775-4416
PH: (800) 4-CULTEC
FX: (203) 775-1462
tech@cultec.com

CONTACTOR FIELD DRAIN C-4SD STANDARD DUTY
DETAIL SHEET
NON-TRAFFIC APPLICATION

CONTACTOR FIELD DRAIN C-4SD CHAMBER

PROJECT NO:		DATE:	04/2014
DESIGNED BY:	CULTEC, INC	DRAWN BY:	TECH
SCALE:	N.T.S.	SHEET NO:	1 OF 1

CULTEC CONTACTOR® FIELD DRAIN C-4HD SPECIFICATIONS

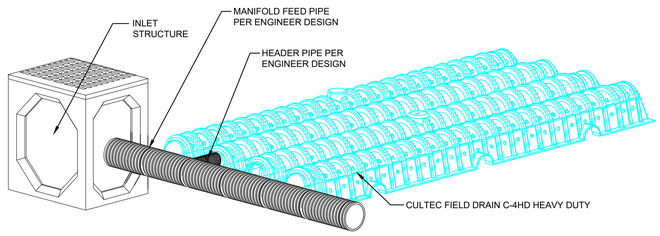
GENERAL
CULTEC CONTACTOR FIELD DRAIN C-4HD CHAMBERS ARE DESIGNED FOR UNDERGROUND STORMWATER MANAGEMENT. THE CHAMBERS MAY BE USED FOR RETENTION, RECHARGING, DETENTION OR CONTROLLING THE FLOW OF ON-SITE STORMWATER RUNOFF.

CHAMBER PARAMETERS

1. THE CHAMBERS WILL BE MANUFACTURED IN THE U.S.A. BY CULTEC, INC. OF BROOKFIELD, CT. (203-775-4416 OR 1-800-428-5832)
2. THE CHAMBER WILL BE VACUUM THERMOFORMED OF BLACK HIGH MOLECULAR WEIGHT HIGH DENSITY POLYETHYLENE (HMWHDPE).
3. THE CHAMBER WILL BE ARCHED IN SHAPE.
4. THE CHAMBER WILL BE OPEN-BOTTOMED.
5. THE CHAMBER WILL BE JOINED USING AN INTERLOCKING OVERLAPPING RIB METHOD. CONNECTIONS MUST BE FULLY SHOULDERED OVERLAPPING RIBS, HAVING NO SEPARATE COUPLINGS OR SEPARATE END WALLS.
6. THE NOMINAL CHAMBER DIMENSIONS OF THE CULTEC CONTACTOR FIELD DRAIN C-4HD SHALL BE 8.5 INCHES (216 MM) TALL, 48 INCHES (1219 MM) WIDE AND 8.5 FEET (2.6 M) LONG. THE INSTALLED LENGTH OF A JOINED CONTACTOR FIELD DRAIN C-4HD SHALL BE 8.0 FEET (2.4 M).
7. INLET OPENING ON THE CHAMBER ENDWALL IS 4.5 INCHES (115 MM).
8. THE NOMINAL STORAGE VOLUME OF THE CONTACTOR FIELD DRAIN C-4HD CHAMBER WILL BE 1.692 FT3 / FT (0.16 M3 / M) - WITHOUT STONE. THE NOMINAL STORAGE VOLUME OF A SINGLE CONTACTOR FIELD DRAIN C-4RHD STAND ALONE UNIT SHALL BE 14.38 FT3 (0.41 M3) - WITHOUT STONE. THE NOMINAL STORAGE VOLUME OF A JOINED CONTACTOR FIELD DRAIN C-4EHD AS AN INTERMEDIATE UNIT SHALL BE 13.54 FT3 (0.38 M3) - WITHOUT STONE. THE NOMINAL STORAGE VOLUME OF THE LENGTH ADJUSTMENT AMOUNT PER RUN SHALL BE 0.846 FT3 (0.02 M3) - WITHOUT STONE.
9. THE CONTACTOR FIELD DRAIN C-4HD CHAMBER WILL HAVE EIGHTY DISCHARGE HOLES BORED INTO THE SIDEWALLS OF THE UNIT'S CORE TO PROMOTE LATERAL CONVEYANCE OF WATER.
10. THE CONTACTOR FIELD DRAIN C-4HD CHAMBER SHALL HAVE 100 CORRUGATIONS.
11. THE ENDWALL OF THE CHAMBER, WHEN PRESENT, WILL BE AN INTEGRAL PART OF THE CONTINUOUSLY FORMED UNIT. SEPARATE END PLATES CANNOT BE USED WITH THIS UNIT.
12. THE CONTACTOR FIELD DRAIN C-4RHD STARTER/STAND ALONE UNIT MUST BE FORMED AS A WHOLE CHAMBER HAVING TWO FULLY FORMED INTEGRAL ENDWALLS AND HAVING NO SEPARATE END PLATES OR SEPARATE END WALLS.
13. THE CONTACTOR FIELD DRAIN C-4EHD MIDDLE/END UNIT MUST BE FORMED AS A WHOLE CHAMBER HAVING ONE FULLY FORMED INTEGRAL ENDWALL AND ONE FULLY OPEN END WALL AND HAVING NO SEPARATE END PLATES OR END WALLS.
14. CHAMBERS MUST HAVE HORIZONTAL STIFFENING FLEX REDUCTION STEPS BETWEEN THE RIBS.
15. HEAVY DUTY UNITS ARE DESIGNATED BY A COLORED STRIPE FORMED INTO THE PART ALONG THE LENGTH OF THE CHAMBER.
16. THE CHAMBER WILL HAVE A RAISED INTEGRAL CAP AT THE TOP OF THE ARCH IN THE CENTER OF EACH UNIT TO BE USED AS AN OPTIONAL INSPECTION PORT OR CLEAN-OUT.
17. THE UNITS MAY BE TRIMMED TO CUSTOM LENGTHS BY CUTTING BACK TO ANY CORRUGATION ON THE LARGE RIB END.
18. THE CHAMBER SHALL BE MANUFACTURED IN AN ISO 9001:2008 CERTIFIED FACILITY.
19. MAXIMUM ALLOWABLE COVER OVER THE TOP OF THE CHAMBER SHALL BE 12 FEET (3.66 M) FOR THE HEAVY DUTY VERSION.
20. THE CHAMBER WILL BE DESIGNED TO WITHSTAND TRAFFIC LOADS WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS.

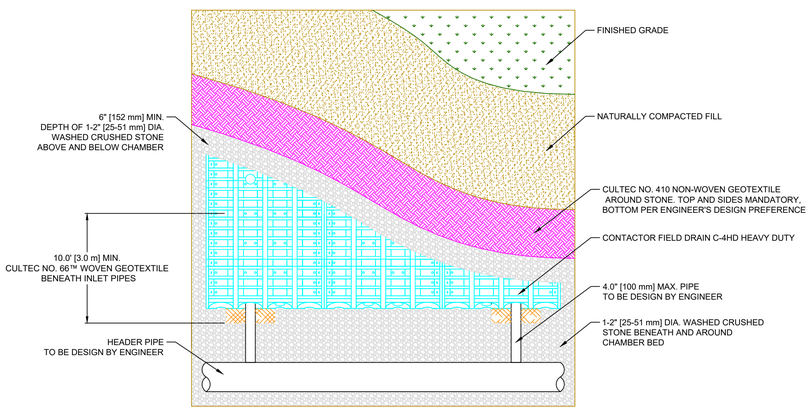
C-4HD 1.0

GENERAL NOTES



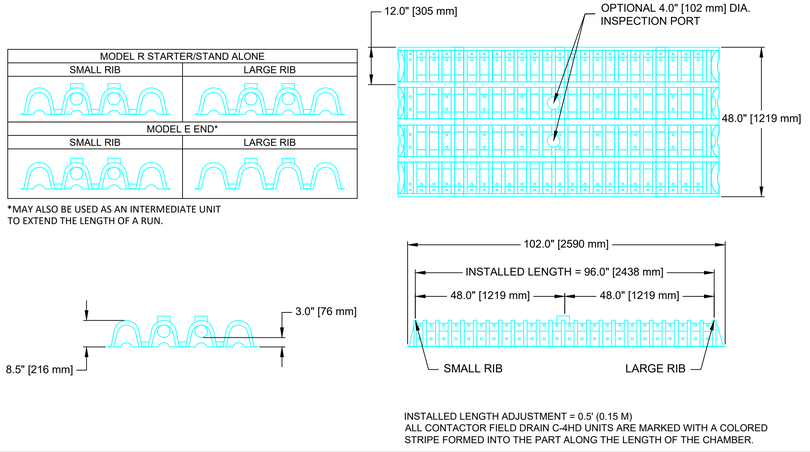
C-4HD 4.0

FIELD DRAIN C-4HD HEAVY DUTY TYPICAL INLET CONNECTION



C-4HD 7.0

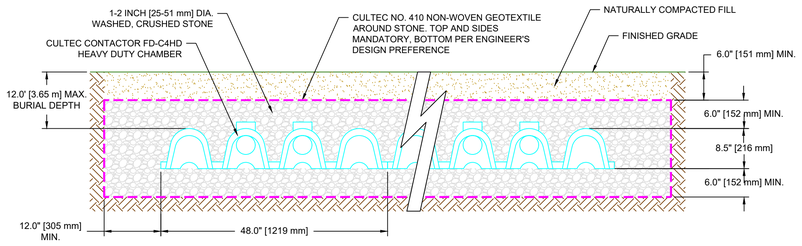
FIELD DRAIN C-4HD HEAVY DUTY PLAN VIEW



INSTALLED LENGTH ADJUSTMENT = 0.5' (0.15 M)
ALL CONTACTOR FIELD DRAIN C-4HD UNITS ARE MARKED WITH A COLORED STRIPE FORMED INTO THE PART ALONG THE LENGTH OF THE CHAMBER.

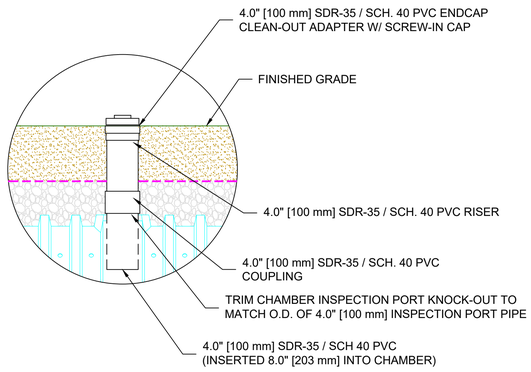
C-4HD 2.0

FIELD DRAIN C-4HD HEAVY DUTY THREE VIEW



C-4HD 5.0

FIELD DRAIN C-4HD HEAVY DUTY TYPICAL CROSS SECTION



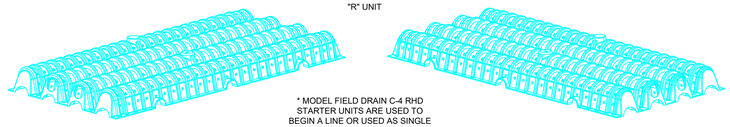
C-4HD 8.0

OPTIONAL INSPECTION PORT- ZOOM DETAIL

C-4HD 3.0

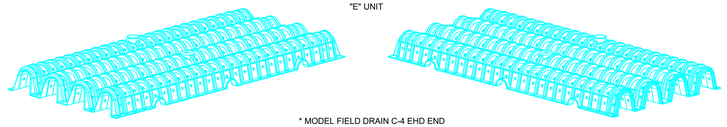
FIELD DRAIN C-4HD HEAVY DUTY DETAIL INFORMATION

LARGE RIB END DETAIL
SMALL RIB END DETAIL
"R" UNIT



* MODEL FIELD DRAIN C-4 RHD STARTER UNITS ARE USED TO BEGIN A LINE OR USED AS SINGLE STAND ALONE SECTIONS.

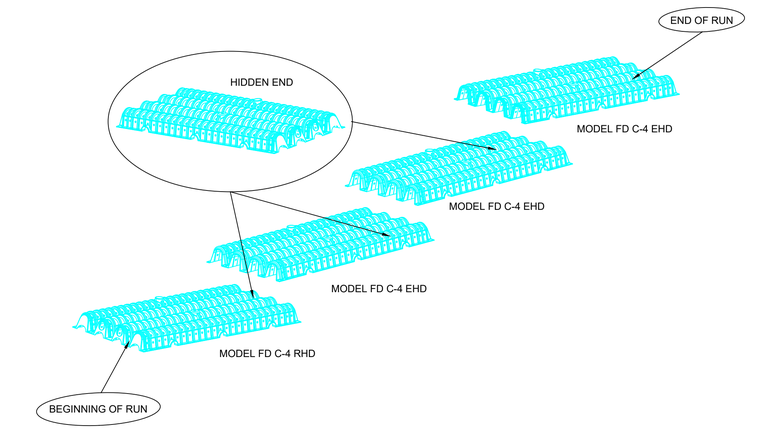
"E" UNIT



* MODEL FIELD DRAIN C-4 EHD END UNITS ARE USED IN THE MIDDLE TO EXTEND THE LENGTH OF A LINE OR TO END THE LENGTH OF A LINE.

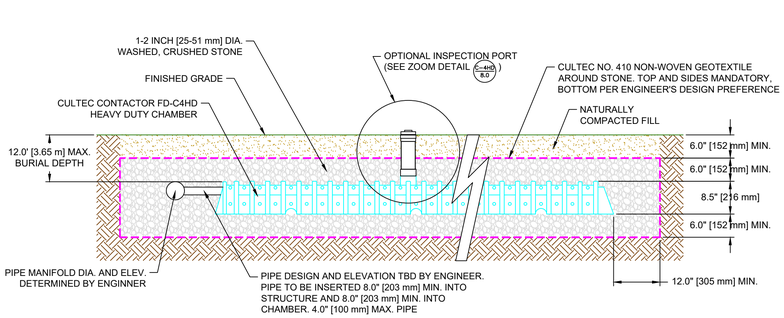
C-4HD 6.0

FIELD DRAIN C-4HD HEAVY DUTY TYPICAL INTERLOCK



C-4HD 9.0

FIELD DRAIN C-4HD MANIFOLD - OPTIONAL INSPECTION PORT DETAIL



CULTEC, Inc.
Subsurface Stormwater Management Systems
P.O. Box 280
878 Federal Road
Brookfield, CT 06804
www.cultec.com
PH: (203) 775-4416
PH: (800) 4-CULTEC
FX: (203) 775-1462
tech@cultec.com

CONTACTOR FIELD DRAIN C-4HD HEAVY DUTY
DETAIL SHEET
NON-TRAFFIC APPLICATION

CONTACTOR FIELD DRAIN C-4HD CHAMBER			
PROJECT NO:		DATE:	02/2016
DESIGNED BY:	CULTEC, INC	DRAWN BY:	TECH
SCALE:	N.T.S.	SHEET NO:	2 OF 2