CULTEC CONTACTOR® FIELD DRAIN C-4HD SPECIFICATIONS

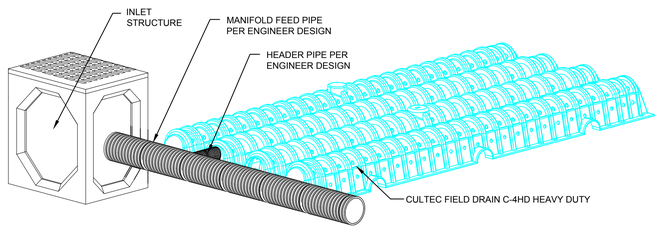
GENERAL
CULTEC CONTACTOR FIELD DRAIN C-4HD CHAMBERS ARE DESIGNED FOR UNDERGROUND STORMWATER MANAGEMENT. THE CHAMBERS MAY BE USED FOR RETENTION, RECHARGING, DETENTION OR CONTROLLING THE FLOW OF ON-SITE STORMWATER RUNOFF.

CHAMBER PARAMETERS

1. THE CHAMBERS SHALL BE MANUFACTURED BY CULTEC, INC. OF BROOKFIELD, CT. (203-775-4416 OR 1-800-428-5832)
2. THE CHAMBER SHALL BE VACUUM THERMOFORMED OF HIGH MOLECULAR WEIGHT HIGH DENSITY POLYETHYLENE (HMWHDPE) WITH A BLACK INTERIOR AND BLUE EXTERIOR.
3. THE CHAMBER SHALL BE ARCHED IN SHAPE.
4. THE CHAMBER SHALL BE OPEN-BOTTOMED.
5. THE CHAMBER SHALL 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. MAXIMUM INLET OPENING ON THE CHAMBER ENDWALL IS 6 INCH (150 MM) HDPE OR 6 INCH (150 MM) PVC.
8. THE NOMINAL STORAGE VOLUME OF THE CONTACTOR FIELD DRAIN C-4HD CHAMBER SHALL 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 SHALL 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, SHALL 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. THE CHAMBER SHALL 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.
16. THE UNITS MAY BE TRIMMED TO CUSTOM LENGTHS BY CUTTING BACK TO ANY CORRUGATION ON THE LARGE RIB END.
17. THE CHAMBER SHALL BE MANUFACTURED IN AN ISO 9001:2015 CERTIFIED FACILITY.
18. MAXIMUM ALLOWABLE COVER OVER THE TOP OF THE CHAMBER SHALL BE 12 FEET (3.66 M) FOR THE HEAVY DUTY VERSION.
19. THE CHAMBER SHALL BE DESIGNED TO WITHSTAND TRAFFIC LOADS WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS.

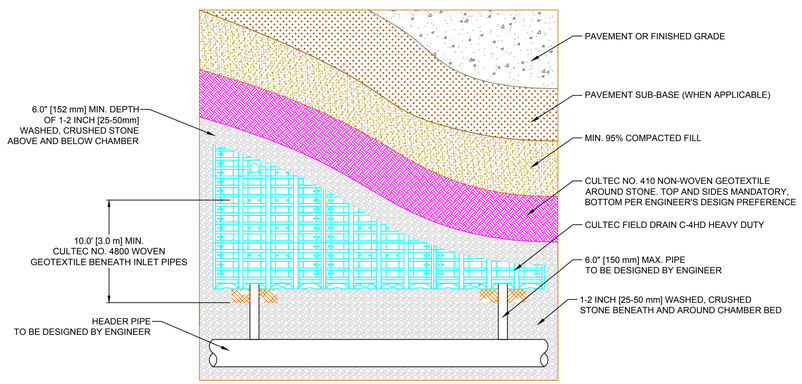
C-4HD 1.0

GENERAL NOTES



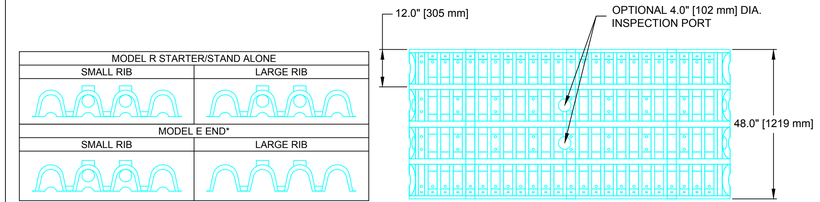
C-4HD 4.0

FIELD DRAIN C-4HD HEAVY DUTY TYPICAL INLET CONNECTION



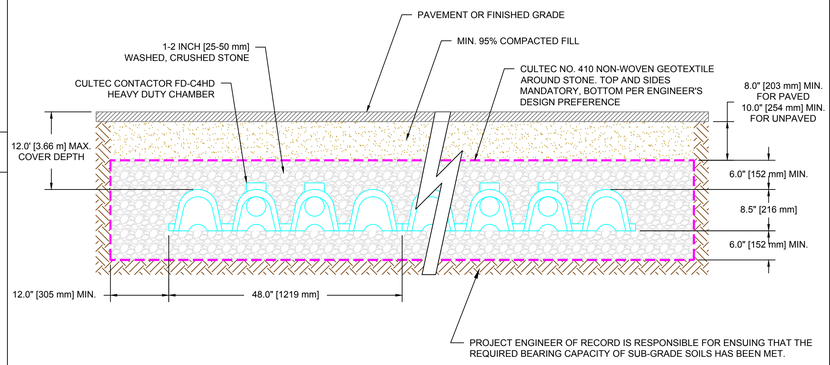
C-4HD 7.0

FIELD DRAIN C-4HD HEAVY DUTY PLAN VIEW



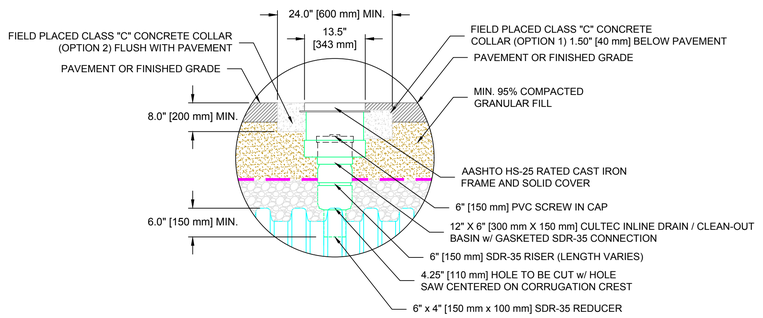
C-4HD 2.0

FIELD DRAIN C-4HD HEAVY DUTY THREE VIEW



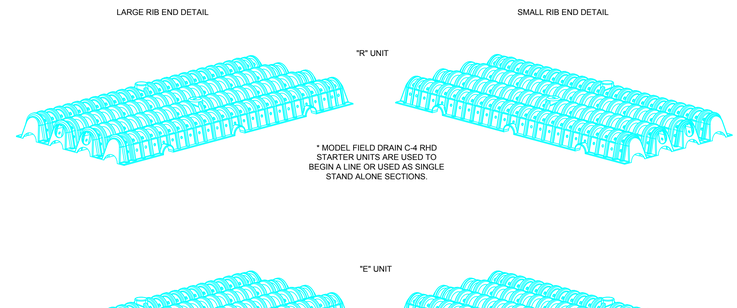
C-4HD 5.0

FIELD DRAIN C-4HD HEAVY DUTY CROSS SECTION



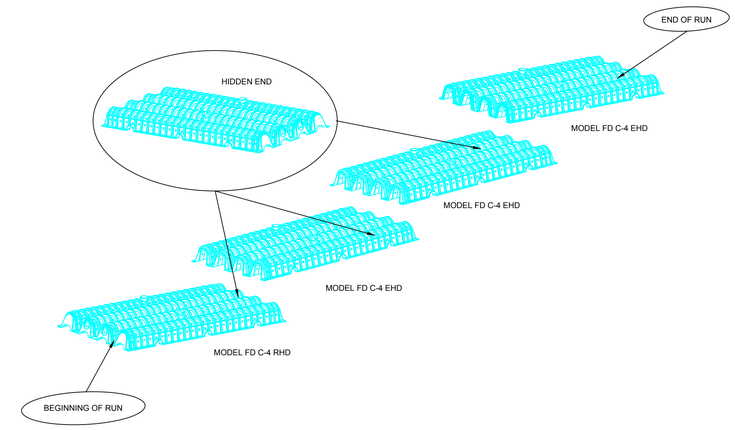
C-4HD 8.0

OPTIONAL INSPECTION PORT- ZOOM DETAIL



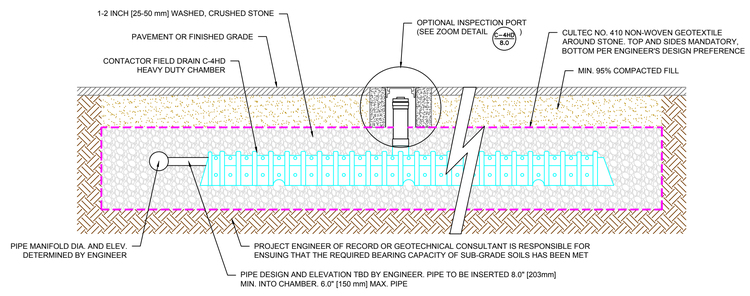
C-4HD 3.0

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

THIS DRAWING WAS PREPARED TO SUPPORT THE PROJECT ENGINEER OF RECORD FOR THE PROPOSED SYSTEM. IT IS THE ULTIMATE RESPONSIBILITY OF THE PROJECT ENGINEER OF RECORD TO ENSURE THAT THE CULTEC SYSTEM'S DESIGN IS IN FULL COMPLIANCE WITH ALL APPLICABLE LAWS AND REGULATIONS. IT IS THE PROJECT ENGINEER OF RECORD'S RESPONSIBILITY TO ENSURE THAT THE CULTEC PRODUCTS ARE DESIGNED IN ACCORDANCE WITH CULTEC'S MINIMUM REQUIREMENTS. CULTEC DOES NOT APPROVE PLANS, SIZING, OR SYSTEM DESIGNS.

FIELD DRAIN C-4HD
DETAIL SHEET
TRAFFIC APPLICATION

SEPARATOR ROW DETAIL SHEET

PROJECT NO:		DATE:	2019
DRAWN BY:	CULTEC, INC	CHECKED BY:	TECH
SCALE:	N.T.S.	SHEET NO:	1 OF 1

CULTEC CONTACTOR® FIELD DRAIN C-4HD SPECIFICATIONS

GENERAL

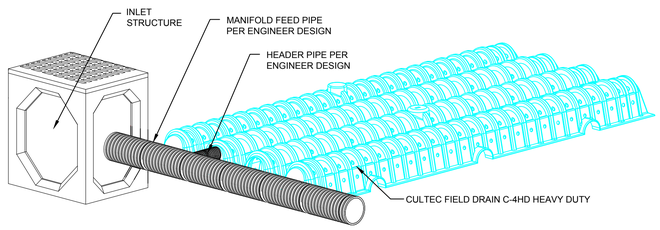
CULTEC CONTACTOR FIELD DRAIN C-4HD CHAMBERS ARE DESIGNED FOR UNDERGROUND STORMWATER MANAGEMENT. THE CHAMBERS MAY BE USED FOR RETENTION, RECHARGING, DETENTION OR CONTROLLING THE FLOW OF ON-SITE STORMWATER RUNOFF.

CHAMBER PARAMETERS

1. THE CHAMBERS SHALL BE MANUFACTURED BY CULTEC, INC. OF BROOKFIELD, CT. (203-775-4416 OR 1-800-428-5832)
2. THE CHAMBER SHALL BE VACUUM THERMOFORMED OF HIGH MOLECULAR WEIGHT HIGH DENSITY POLYETHYLENE (HMWHDPE) WITH A BLACK INTERIOR AND BLUE EXTERIOR.
3. THE CHAMBER SHALL BE ARCHED IN SHAPE.
4. THE CHAMBER SHALL BE OPEN-BOTTOMED.
5. THE CHAMBER SHALL 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. MAXIMUM INLET OPENING ON THE CHAMBER ENDWALL IS 6 INCH (150 MM) HDPE OR 6 INCH (150 MM) PVC.
8. THE NOMINAL STORAGE VOLUME OF THE CONTACTOR FIELD DRAIN C-4HD CHAMBER SHALL 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 SHALL 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, SHALL 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. THE CHAMBER SHALL 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.
16. THE UNITS MAY BE TRIMMED TO CUSTOM LENGTHS BY CUTTING BACK TO ANY CORRUGATION ON THE LARGE RIB END.
17. THE CHAMBER SHALL BE MANUFACTURED IN AN ISO 9001:2015 CERTIFIED FACILITY.
18. MAXIMUM ALLOWABLE COVER OVER THE TOP OF THE CHAMBER SHALL BE 12 FEET (3.66 M) FOR THE HEAVY DUTY VERSION.
19. THE CHAMBER SHALL BE DESIGNED TO WITHSTAND TRAFFIC LOADS WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS.

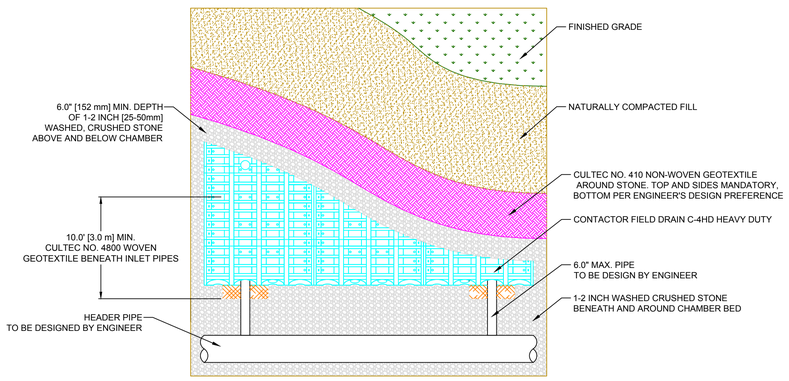
C-4HD 1.0

GENERAL NOTES



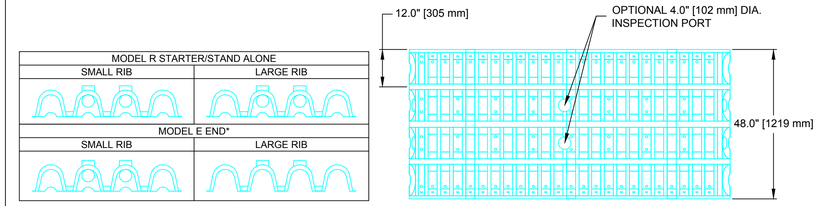
C-4HD 4.0

FIELD DRAIN C-4HD HEAVY DUTY TYPICAL INLET CONNECTION



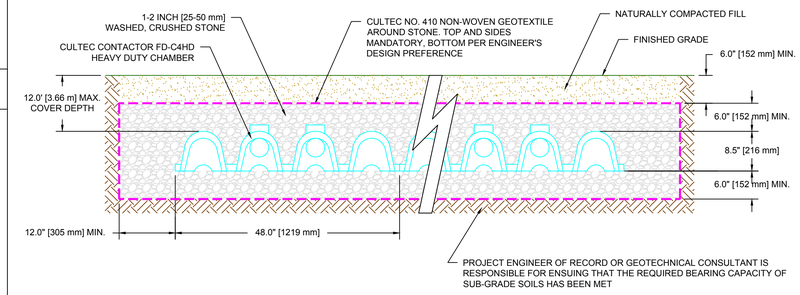
C-4HD 7.0

FIELD DRAIN C-4HD HEAVY DUTY PLAN VIEW



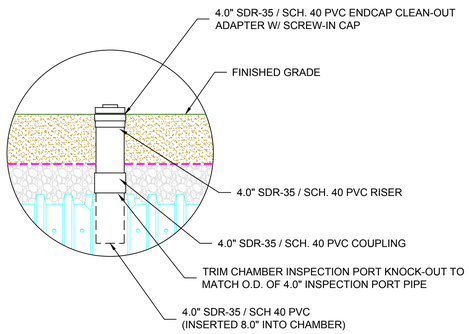
C-4HD 2.0

FIELD DRAIN C-4HD HEAVY DUTY THREE VIEW



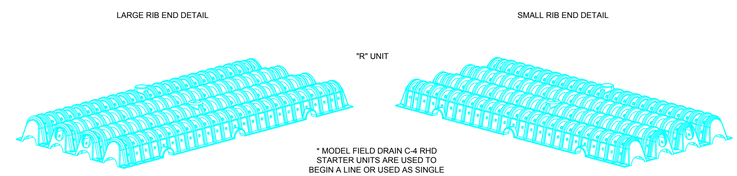
C-4HD 5.0

FIELD DRAIN C-4HD HEAVY DUTY CROSS SECTION



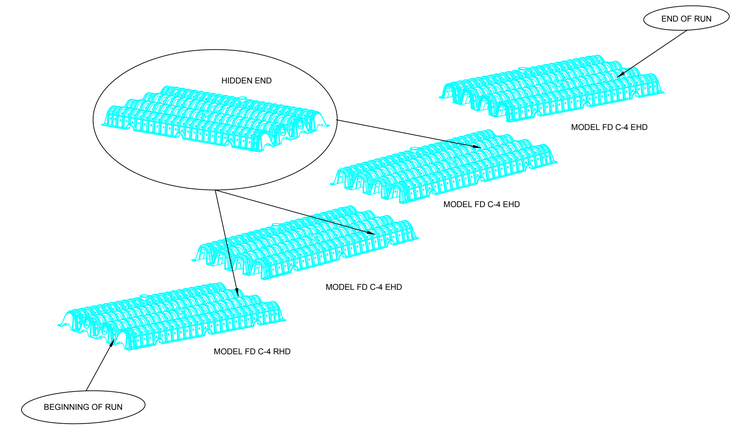
C-4HD 8.0

OPTIONAL INSPECTION PORT- ZOOM DETAIL



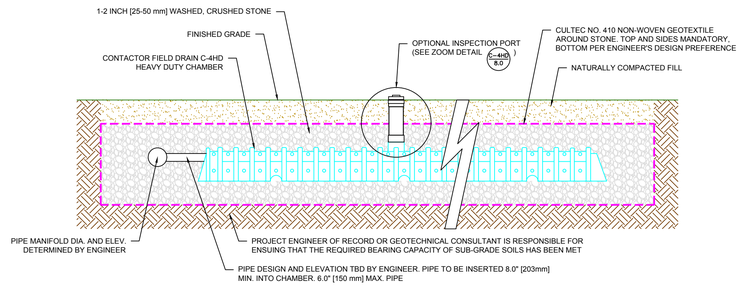
C-4HD 3.0

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

THIS DRAWING WAS PREPARED TO SUPPORT THE PROJECT ENGINEER OF RECORD FOR THE PROPOSED SYSTEM. IT IS THE ULTIMATE RESPONSIBILITY OF THE PROJECT ENGINEER OF RECORD TO ENSURE THAT THE CULTEC SYSTEM'S DESIGN IS IN FULL COMPLIANCE WITH ALL APPLICABLE LAWS AND REGULATIONS. IT IS THE PROJECT ENGINEER OF RECORD'S RESPONSIBILITY TO ENSURE THAT THE CULTEC PRODUCTS ARE DESIGNED IN ACCORDANCE WITH CULTEC'S MINIMUM REQUIREMENTS. CULTEC DOES NOT APPROVE PLANS, SIZING, OR SYSTEM DESIGNS.

FIELD DRAIN C-4HD
DETAIL SHEET
NON-TRAFFIC APPLICATION

SEPARATOR ROW DETAIL SHEET

PROJECT NO:		DATE:	2019
DRAWN BY:	CULTEC, INC	CHECKED BY:	TECH
SCALE:	N.T.S.	SHEET NO:	1 OF 1