

Technical drawing of a rectangular plate with a grid pattern. The drawing includes three views: Plan View, Section View 1, and Section View 2.

PLAN VIEW: A rectangular plate with a grid of horizontal and vertical lines. The overall width is labeled CC . The overall height is labeled BB . The central slot width is labeled FF . The plate thickness is labeled X .

SECTION VIEW 1: A cross-section of the plate showing the central slot. The width of the plate is labeled CC . The width of the central slot is labeled FF . The width of the plate base is labeled BB . The height of the plate is labeled X .

SECTION VIEW 2: A cross-section of the plate showing the central slot. The width of the plate is labeled C . The width of the central slot is labeled F . The width of the plate base is labeled B .

DIMENSION TABLE:

B	C	F	F	X	BB	CC	FF
30	12	4	12	2	14	30	14

The figure contains two technical drawings of the test cell:

- PLAN VIEW:** A top-down view of the rectangular test cell. It shows a central area with a grid of 16 circular openings arranged in 4 rows and 4 columns. The overall width is labeled as 36". The height is divided into three sections: a top section of 6 1/2", a middle section of 22" containing the grid, and a bottom section of 1.75" labeled "1.75" x 4" OPENING".
- SECTION VIEW:** A side view of the test cell. It shows a base with a width of 35" x 42". The total height is 8". The front face has a 5" wide section on the left and a series of vertical supports or openings on the right.

Technical drawings of the front and side views of a manhole structure.

FRONT VIEW:

- Structure is a square concrete slab, 5' x 5' x 8" thick.
- Top surface is labeled "ROAD SURFACE".
- Left side features a 15" HDPE INLET with an elevation of INV. IN = 213.90.
- Right side features a 12" HDPE OUTLET with an elevation of INV. OUT = 213.50.
- Internal dimensions: 4" (top left), 48" (top center), 14" (left of outlet), 30" (right of inlet).
- Bottom center features a MIN. 12" SUMP.
- Right side features a SEE OCS INTERIOR NEAR DETAIL callout.
- Bottom right features a SEE NOTE 6 callout.
- Bottom center features a SEE NOTE 3 callout.

SIDE VIEW:

- Structure is shown in cross-section, resting on 9" CRUSHED STONE BEDDING.
- Top surface is labeled "ROAD SURFACE".
- Right side features a ROAD SURFACE label.
- Structure height is indicated by RM EL. = 219.85.
- Structure depth is indicated by INV. OUT = 213.50.
- Structure width is indicated by 48".
- Structure is labeled VARIES (SEE PLAN).

Diagram of the FRONT VIEW of a weir structure. The structure is rectangular with overall dimensions of 48" width and 48" height. Key features and dimensions are labeled:

- TOP OF WEIR EL. = 217.20
- 18" X 6" RECTANGULAR ORIFICE Φ EL. = 215.15
- 3" Φ ORIFICE EL. = 214.25

The technical drawings show the OCS dimensions. The Plan View is a square with a side length of 60 inches. It features a central square with a side length of 48 inches. The distance from the center of the 48-inch square to the inner edge of the 60-inch square is 6 inches. The distance from the center of the 48-inch square to the outer edge of the 60-inch square is 30 inches. The distance from the center of the 48-inch square to the inner edge of the 60-inch square is 6 inches. The distance from the center of the 48-inch square to the outer edge of the 60-inch square is 30 inches. The Concrete Cover Plan View shows a square with a side length of 60 inches. It features a central square with a side length of 24 inches. The distance from the center of the 24-inch square to the inner edge of the 60-inch square is 18 inches. The distance from the center of the 24-inch square to the outer edge of the 60-inch square is 30 inches. The distance from the center of the 24-inch square to the inner edge of the 60-inch square is 18 inches. The distance from the center of the 24-inch square to the outer edge of the 60-inch square is 30 inches.

NOTES:

1. PRECAST CONCRETE CATCH BASIN WITH CONCRETE STRENGTH OF 4,000 PSI @ 28 DAYS.
2. THE ENDS OF ALL PIPES SHALL BE CUT OFF FLUSH WITH THE INSIDE SURFACE OF THE CATCH BASIN AND PARGED AROUND.
3. PIPES SHALL BE PARGED AROUND INTERIOR AND EXTERIOR PRIOR TO BACKFILLING OF STRUCTURE. CONNECTIONS MADE WITHIN 10 FEET OF A WATER MAIN (OR SERVICE LINE) OR A SEWER MAIN (OR SERVICE LATERAL) SHALL BE MADE WATERTIGHT.
4. PROVIDE A MINIMUM 0.1" DROP BETWEEN INLET AND OUTLET INVERTS (MATCH CROWNS FOR PIPES WITH DIFFERENT SIZE) UNLESS OTHERWISE SPECIFIED ON THE PLANS.
5. CATCH BASINS WITH AN INTERIOR DEPTH OF 4' AND GREATER SHALL BE FURNISHED WITH STEEL REINFORCED POLYPROPYLENE PLASTIC STEPS AT 12" INTERVALS.
6. HOPE PIPE SHALL BE PROVIDED WITH WATERTIGHT CONNECTIONS. ADS MODEL N12 WT IB OR APPROVED EQUAL.

CUT-TEC HVLY FEED CONNECTOR (TYP)

INSPECTION PORT TO BE INSTALLED ON INLET ROW (SEE DETAIL)

1-2" INCH WASHED, CRUSHED STONE

FINISHED GRADE

4 OZ. NON-WOVEN FILTER FABRIC AROUND STONE TOP AND SIDES MANDATORY.

REFER TO PLAN FOR FINAL SURFACE TREATMENT

VARIES

REFER TO PLAN

24" MIN. 12" MAX.

STORM CHAMBER INVERT ELEV. (SEE TABLE)

BOTTOM OF STONE BED (SEE TABLE)

30.5"

12"

SEE CENTER TO CENTER

SECTION VIEW

- NOTES:**
1. CULTEC RECHARGER 330XLHD CHAMBERS BY CULTEC, INC. OF BROOKFIELD, CT. ALL CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH CULTEC INC.'S CURRENT RECOMMENDED INSTALLATION GUIDELINES.
 2. THE BED OF THE EXISTING FOOTPRINT SHALL BE MAINTAINED AT SAME LEVEL.
 3. ALL EXISTING CHAMBERS SHALL BE FED VIA 12" PIPES AND TIE CONNECTIONS BY CULTEC OR EQUIV.
 4. THE CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER IF SUBSURFACE CONDITIONS IN THE AREAS OF THE INFILTRATOR TRENCHES IS NOT CONSISTENT WITH THE TEST PIT OR PERCOLATION DATA (E.G. GROUNDWATER OR BEDROCK ENCOUNTERED, SOIL PROPERTIES ARE NOT CONSISTENT, ETC.).
 5. REFER TO THE INSPECTION SCHEDULE & LONG TERM MAINTENANCE OF STORMWATER STRUCTURES NOTES ON THE UTILITY SHEET.

SYSTEM ID	BOTTOM OF STONE BED ELEVATION	CHAMBER INVERT	TOP OF STONE BED ELEVATION	STONE BED FOOTPRINT
A	213.55	214.05	217.59	2,025 S.F.

1 - 2 INCH DIA. WASHED, CRUSHED STONE

FINISHED GRADE

PAVEMENT SECTION

4.02 IN. FABRIC AND SD

REFER TO PLAN FOR FINAL SURFACE TREATMENT

CULVERT REMOVAL 330

CULTED 330 XLHD INTERMEDIATE CHAMBER

CULTE 330 XLHD CHAMBER

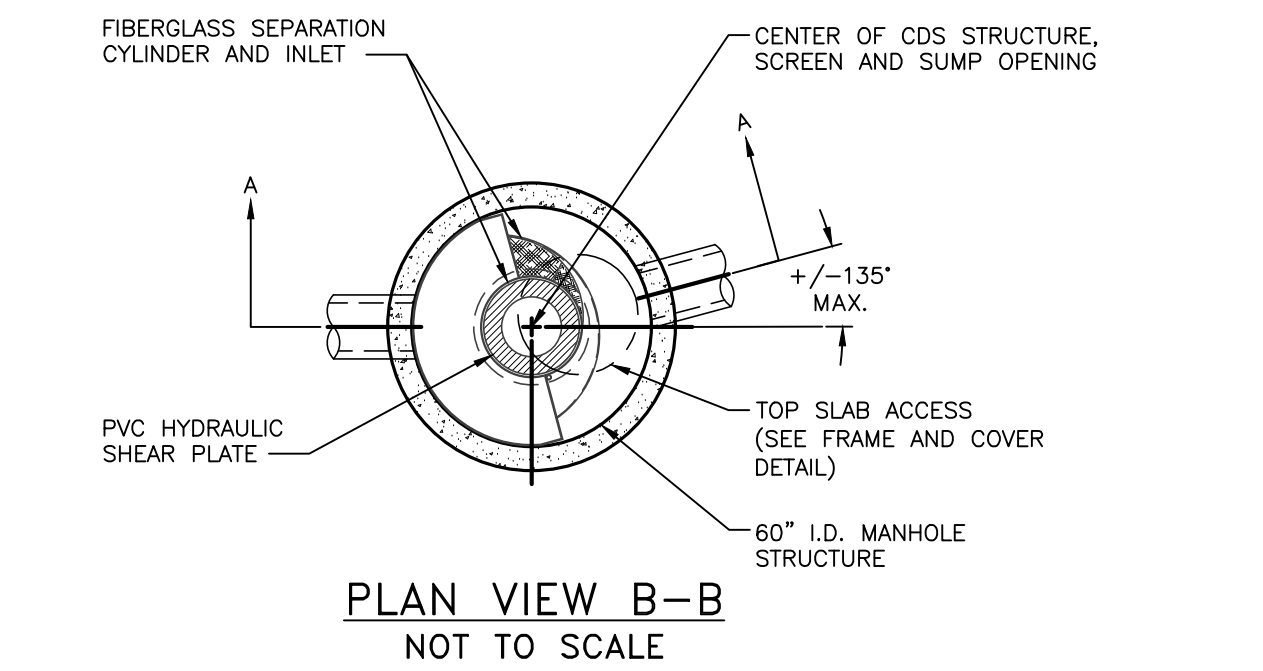
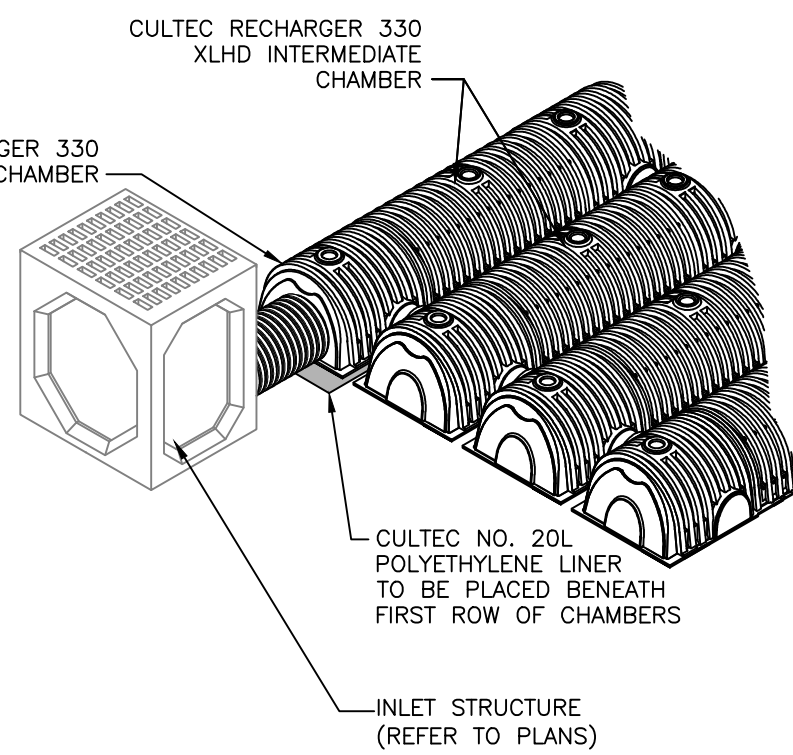
12" MIN.

SIDE PORTAL TO BE CUT IN FIELD TO ACCEPT H/V FEED CONNECTOR IF APPLICABLE

REC NO. 20L

INTERLINER LINER BE PLACED BENEATH 1ST ROW OF CHAMBERS

- CULTEC RECHARGER 330
XLHD INTERMEDIATE
CHAMBER



WQI ID	CDS MODEL
1	CDS2015-4

- NOTES:**
1. STORMWATER TREATMENT SYSTEM (SWTS) SHALL BE DESIGNED TO MEET PERFORMANCE GOALS BASED ON FULL SCALE LABORATORY PERFORMANCE DATA.
 2. SWTS SHALL BE DESIGNED TO RETAIN FLOATABLES AND TRAPPED SEDIMENT AT FLOW RATES UP TO 100 CFS.
 3. SWTS INVERTS IN AND OUT SHALL BE AT THE SAME ELEVATION.
 4. SWTS SHALL NOT BE COMBINED WITH SEWER DOWNSPILL TAILWATER.
 5. SWTS SHALL HAVE INLET AND OUTLET PIPES THAT ALLOW FOR MAINTENANCE ACCESS.
 6. PIPE ORIENTATION MAY VARY: SEE SITE PLAN FOR SIZE AND LOCATION.
 7. SWTS SHALL HAVE INTERNAL BENT PIPES TO PREVENT TRAPPING OF SOLIDS COMPONENTS.
 8. ONE MANHOLE FRAME AND COVER SUPPLIED WITH SYSTEM, NOT INSTALLED.
 9. CONTRACTOR TO PREPARE AND SUBMIT LIFTING AND LOWERING PLAN.
 10. STRUCTURE SHALL MEET AASHTO H250 AND CASTINGS SHALL MEET AASHTO M306 LOAD RATING REQUIREMENTS.
 11. PVC HYDRAULIC RAMP PLATE IS PLACED ON SHOT AT BOTTOM OF SCREEN CYCLINDER, REMOVE REPAIR AS NECESSARY DURING MAINTENANCE.
 12. SEE UTILITY PLAN FOR PIPE ORIENTATION, INVERTS AND SIZES.

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SEAL

CONSTRUCTION DETAILS

511 FISHKILL AVENUE

511 FISHKILL AVENUE
CITY OF BEACON
DUTCHESS COUNTY, NEW YORK
TAX ID: 6055-04-580285

JOB #:	2018:041
DATE:	11/27/18
SCALE:	AS SHOWN
TITLE:	CD-2
SHEET:	13 OF 13