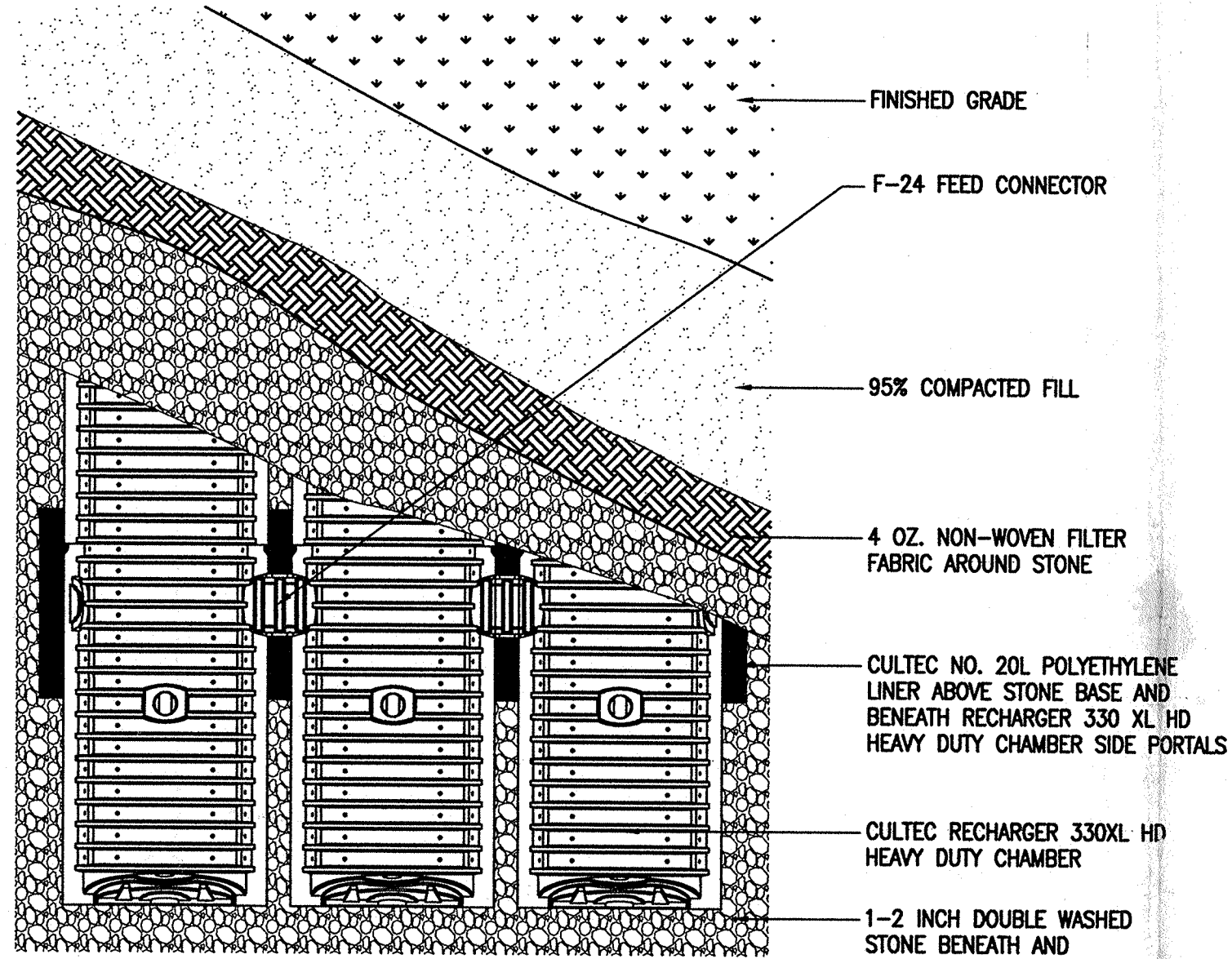


CULTEC RECHARGER 330 XL HD SPECIFICATIONS:

GENERAL
CULTEC RECHARGER 330XL CHAMBERS ARE DESIGNED FOR UNDERGROUND STORMWATER MANAGEMENT. THE CHAMBERS MAY BE USED FOR RETENTION, RECHARGING, DETENTION, CONTROLLING THE FLOW OF ON-SITE STORMWATER RUNOFF.

CHAMBER PROPERTIES

- THE CHAMBERS WILL BE MANUFACTURED BY CULTEC, INC. OF BROOKFIELD, CT (203-775-4416).
- CONTACT CULTEC, INC. AT 203-775-4416 FOR SUBMITTAL PACKAGES AND TO PURCHASE PRODUCT.
- THE NOMINAL CHAMBER DIMENSIONS OF THE CULTEC RECHARGER 330XL SHALL BE 30.5 INCHES TALL, 52 INCHES WIDE AND 8.5 FEET LONG. THE INSTALLED LENGTH OF INTERMEDIATE UNITS SHALL BE 7 FEET.
- MAXIMUM INLET OPENING IS 24 INCHES.
- THE HEAVY DUTY CHAMBER WILL HAVE 16 CORRUGATIONS.
- THE NOMINAL STORAGE VOLUME OF THE RECHARGER 330XL WILL BE 7.459 CF/LF.
- THE CHAMBERS WILL BE VACUUM THERMOFORMED OF HIGH MOLECULAR WEIGHT HIGH DENSITY POLYETHYLENE (HMWHDPE) IN AN ISO-9001:2000 CERTIFIED FACILITY.
- THE CHAMBER EXTERIOR IS GREY WITH A COLORED STRIPE. THE CHAMBER INTERIOR IS BLACK.
- CHAMBERS ARE MANUFACTURED WITH AN OPEN BOTTOM, INTEGRALLY FORMED END WALLS AND PERFORATED SIDEWALLS.
- 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.
- 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.
- THE RECHARGER 330XL STAND ALONE UNIT MUST BE FORMED AS A WHOLE CHAMBER HAVING TWO FULLY FORMED INTEGRAL END WALLS.
- THE RECHARGER 330XLS STARTER CHAMBER MUST BE FORMED AS A WHOLE CHAMBER HAVING ONE FULLY FORMED INTEGRAL END WALL AND ONE PARTIALLY FORMED INTEGRAL ENDWALL WITH A LOWER TRANSFER OPENING OF 40.5 INCHES X 10.5 INCHES.
- THE RECHARGER 330XL INTERMEDIATE CHAMBER MUST BE FORMED AS A WHOLE CHAMBER HAVING AT LEAST ONE FULLY FORMED INTEGRAL END WALL AND ONE PARTIALLY FORMED INTEGRAL ENDWALL WITH A LOWER TRANSFER OPENING OF 40.5 INCHES X 10.5 INCHES.
- THE RECHARGER 330XLE END CHAMBER MUST BE FORMED AS A WHOLE CHAMBER HAVING ONE FULLY FORMED INTEGRAL END WALL.
- ALL CHAMBERS WILL BE ARCHED IN SHAPE. THE HEAVY DUTY CHAMBER WILL HAVE FIFTY-SIX INCH ROUND DISCHARGE HOLES BORED INTO THE SIDEWALLS OF THE UNIT'S CORE TO PROMOTE INFILTRATION/EXFILTRATION.
- CHAMBERS MUST HAVE HORIZONTAL STIFFENING FLEX REDUCTION STEPS BETWEEN THE RIBS.
- RECHARGER 330XLHD HEAVY DUTY CHAMBERS ARE DESIGNED TO WITHSTAND AASHTO H20 LOAD RATING (32,000 LBS./AXLE) WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS.
- 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.
- 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.
- THE UNITS MAY BE TRIMMED TO CUSTOM LENGTHS BY CUTTING BACK TO ANY CORRUGATION.
- REPEATING SUPPORT PANELS AND END WALLS OF THE ELONGATED CHAMBER SHALL BE SPACED EVERY 7 FEET.
- THE UNIT WILL ALSO HAVE TWO SIDE PORTALS TO ACCEPT CULTEC HVLV F-24 FEED CONNECTORS. NOMINAL DIMENSIONS OF THE SIDE PORTAL ARE 10.5 INCHES HIGH BY 12 INCHES WIDE.



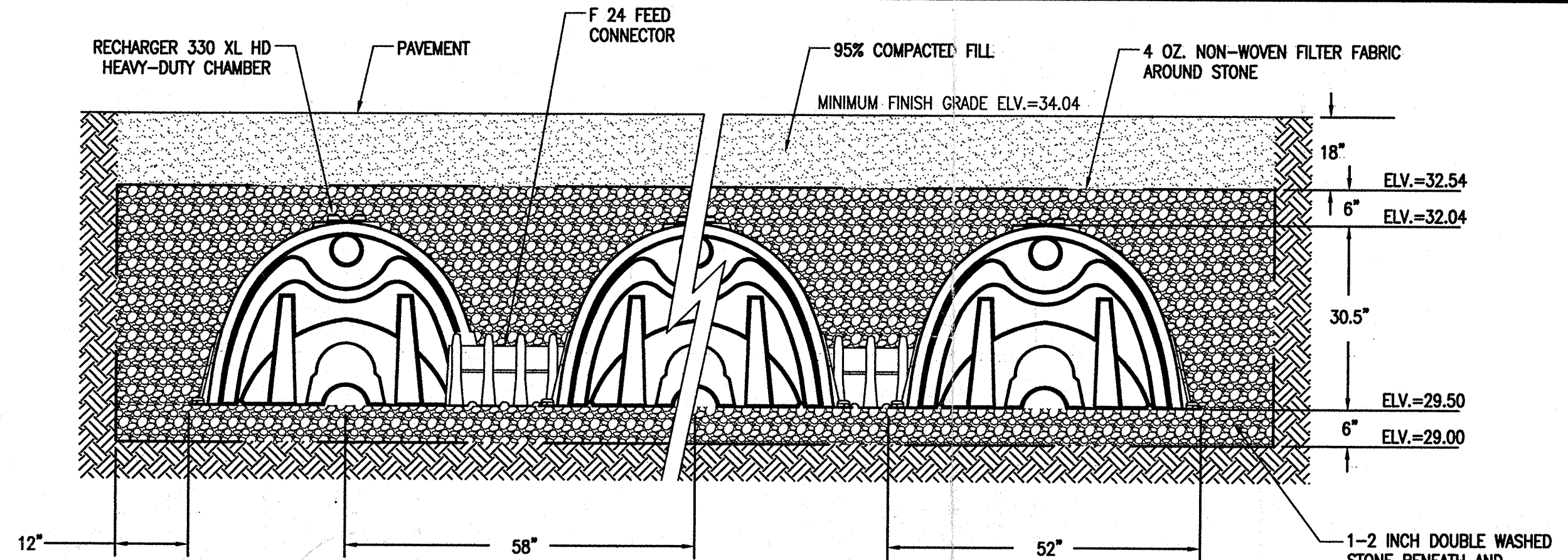
CULTEC RECHARGER 330XLHD HEAVY DUTY PLAN VIEW (NOT TO SCALE)

NOTES:

- TOPOGRAPHIC SURVEY PERFORMED BY THOMPSON MERRILL ON JUNE 27, 2008.
- BENCHMARK ELEVATION INFORMATION FROM "SEWER EXTENSION 'AS BUILT' PLAN ON POINT ROAD" DATED: DECEMBER 17, 1997.
- 20' WIDE ACCESS EASEMENT AS SHOWN ON LAND COURT PLAN No. 15220G.
- THE ACCURACY OF EXISTING UTILITY LOCATIONS, DIMENSIONS AND LINES IS FROM EXISTING INFORMATION OF RECORD AND IS NOT WARRANTED. CONTRACTOR TO VERIFY PRIOR TO INITIATING CONSTRUCTION.

FLOOD NOTE:

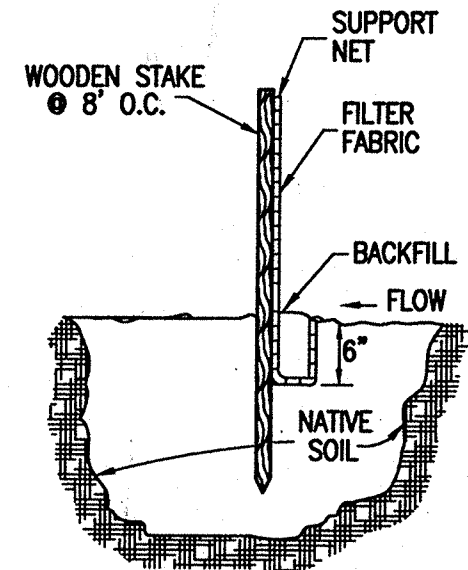
BY GRAPHIC PLOTTING ONLY, THE PORTION OF POINT ROAD SHOWN ON THIS PLAN IS IN ZONE X OF THE FLOOD INSURANCE RATE MAP, COMMUNITY PANEL No. 255213 0005 E, REVISED: JULY 15, 1992.



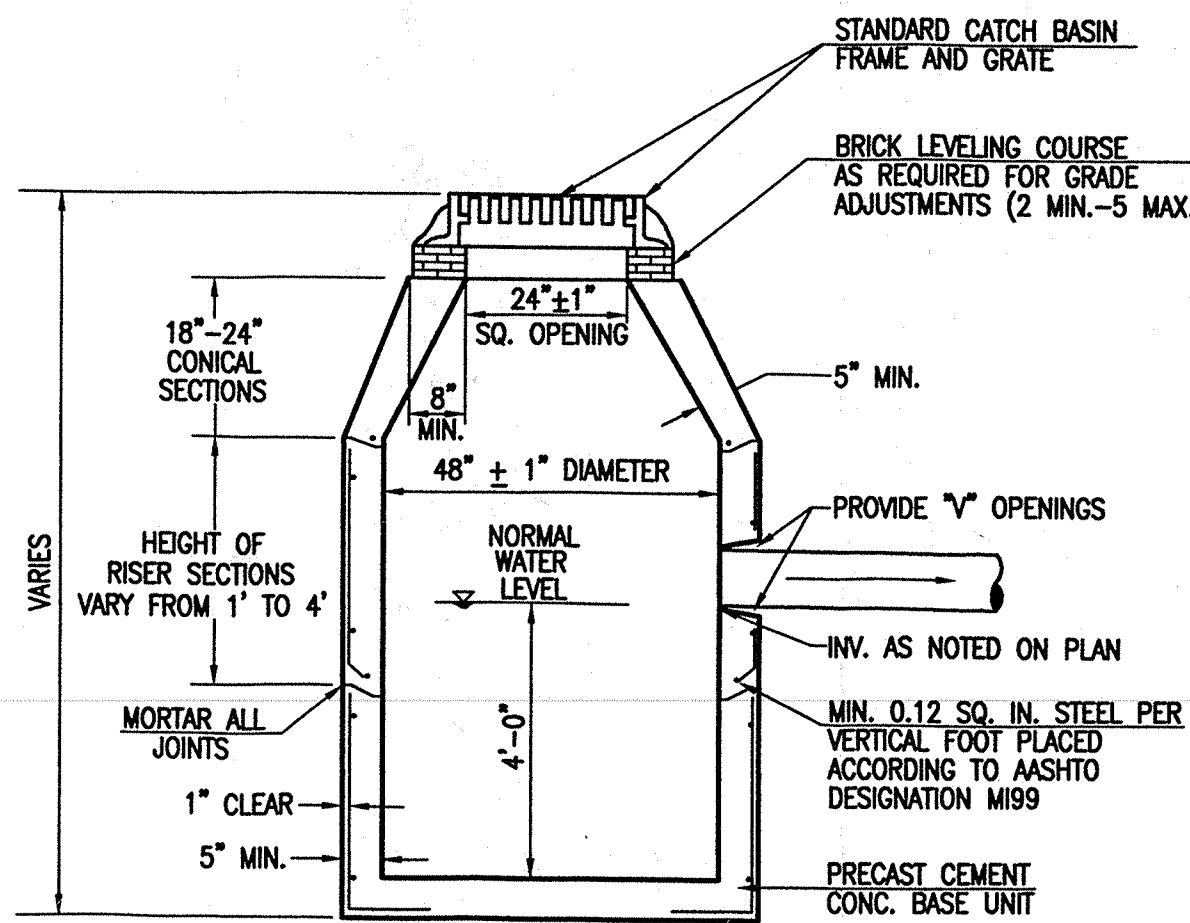
GENERAL NOTES

- RECHARGER 330 XL HD BY CULTEC, INC. OF BROOKFIELD, CT.
- STORAGE PROVIDED = 11.32 CF/FT PER DESIGN UNIT.
- REFER TO CULTEC, INC.'S CURRENT RECOMMENDED INSTALLATION GUIDELINES.
- USE RECHARGER 330 XL HD HEAVY DUTY FOR TRAFFIC AND/OR H2O APPLICATIONS.
- ALL RECHARGER 330 XL HD HEAVY DUTY UNITS ARE MARKED WITH A COLOR STRIPE FORMED INTO THE PART ALONG THE LENGTH OF THE CHAMBER.
- ALL RECHARGER 330 XL HD CHAMBERS MUST BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.

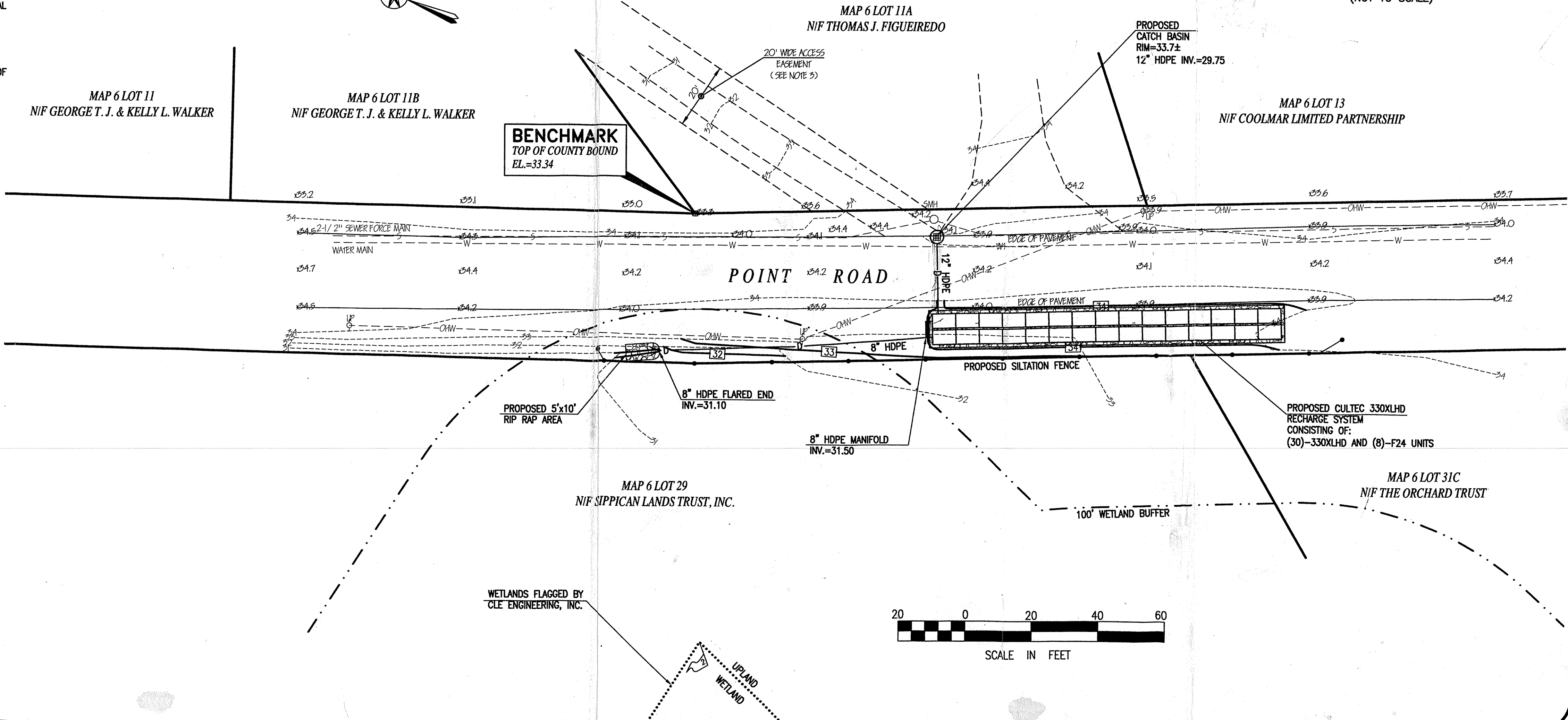
CULTEC RECHARGER 330XLHD HEAVY DUTY TYPICAL CROSS SECTION (NOT TO SCALE)



TYPICAL SILT FENCE DETAIL (NOT TO SCALE)



PRECAST CONCRETE CATCH BASIN (NOT TO SCALE)



REVISIONS



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TEL. (508) 717-3479 FAX. (508) 717-3481
WWW.THOMPSONFARLAND.COM

DRAWN BY: MVP

DESIGNED BY: CAF

CHECKED BY: CAF

ROADWAY IMPROVEMENT PLAN
POINT ROAD
ASSESSORS MAP 6
MARION, MASSACHUSETTS

TOWN OF MARION DEPARTMENT OF PUBLIC WORKS
50 BENSON BROOK ROAD
MARION MA, 02758

APPLICANT:

MARCH 6, 2009

SCALE: 1"=20'

JOB NO. 08-539

LATEST REVISION:

SITE PLAN

SHEET 1 OF 1