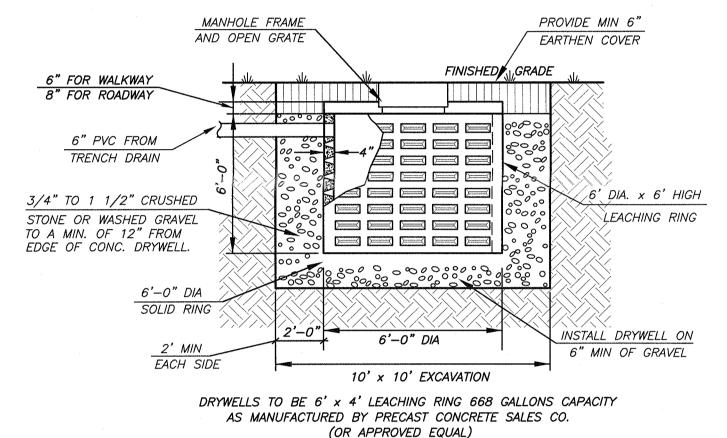
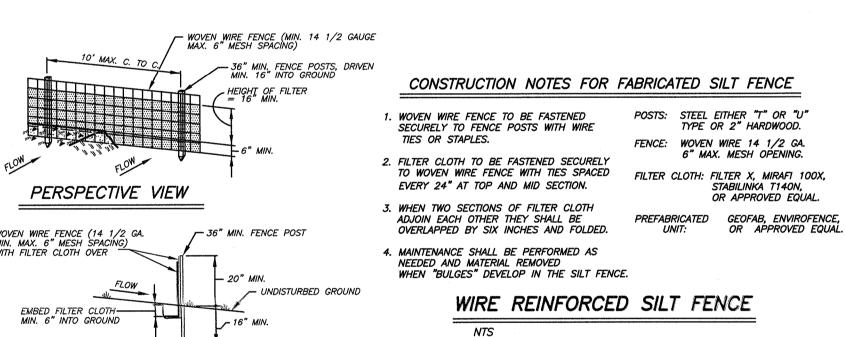
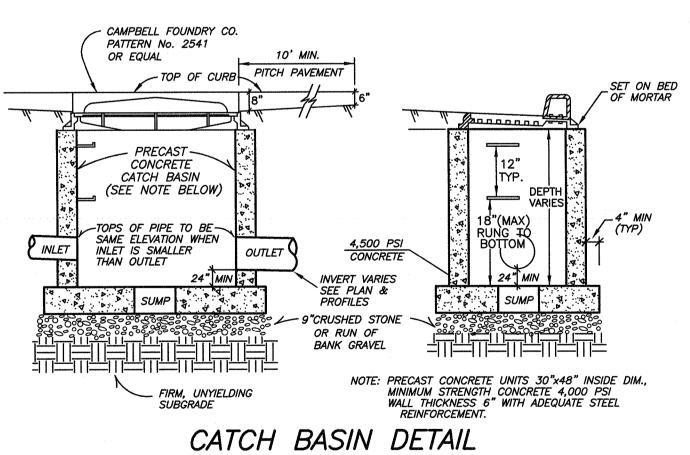


⚠ DETAIL DRYWELLS IN STONE SURROUND

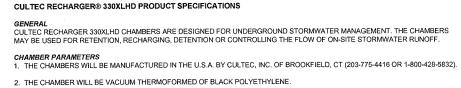


CONCRETE TO TEST TO 4000 PSI @ 28 DAYS REINFORCEMENT — 6/12 x 6/8 WELDED MESH 





FABRIC FOR OVER FLOW STABILITY.



3. THE CHAMBER WILL BE ARCHED IN SHAPE. 3. THE CHAMBER WILL BE ARCHED IN SHAPE 4. THE CHAMBER WILL BE OPEN-BOTTOMED. 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 RECHARGER 330XLHD SHALL BE 30.5 INCHES (775 mm) TALL, 52 INCHES (1321 mm) WIDE AND 8.5 FEET (2.59 m) LONG. THE INSTALLED LENGTH OF A JOINED RECHARGER 330XLHD SHALL BE 7 FEET (2.13 6. THE NOMINAL STORAGE VOLUME OF THE HVLV FC-24 FEED CONNECTOR WILL BE 0.913 FT³ / FT (0.085 m³ / m) - WITHOUT

7. MAXIMUM INLET OPENING ON THE CHAMBER END WALL IS 24 INCHES (600 mm). 8. THE CHAMBER WILL HAVE TWO SIDE PORTALS TO ACCEPT CULTEC HVLV® FC-24 FEED CONNECTORS TO CREATE AN INTERNAL MANIFOLD. THE NOMINAL DIMENSIONS OF EACH SIDE PORTAL WILL BE 10.5 INCHES (267 mm) HIGH BY 11.5 INCHES (292 mm) WIDE. MAXIMUM ALLOWABLE OUTER DIAMETER (O.D.) PIPE SIZE IN THE SIDE PORTAL IS 11.75 INCHES (298 mm).

 THE NOMINAL CHAMBER DIMENSIONS OF THE CULTEC HVLV FC-24 FEED CONNECTOR SHALL BE 12 INCHES (305 mm) TALL, 16 INCHES (406 mm) WIDE AND 24.2 INCHES (614 mm) LONG. 10. THE NOMINAL STORAGE VOLUME OF THE RECHARGER 330XLHD CHAMBER WILL BE 7.459 FT³ / FT (0.693 m³ / m) - WITHOUT STONE. THE NOMINAL STORAGE VOLUME OF A JOINED RECHARGER 330XLHD SHALL BE 52.213 FT³ / UNIT (1.478 m³ / UNIT) - WITHOUT STONE. 11. THE NOMINAL STORAGE VOLUME OF THE HVLV FC-24 FEED CONNECTOR WILL BE 0.913 FT³ / FT (0.085 m³ / m) - WITHOUT STONE. 12. THE RECHARGER 330XLHD CHAMBER WILL HAVE FIFTY-SIX DISCHARGE HOLES BORED INTO THE SIDEWALLS OF THE UNIT'S CORE TO PROMOTE LATERAL CONVEYANCE OF WATER. 13. THE RECHARGER 330XLHD CHAMBER SHALL HAVE 16 CORRUGATIONS.

14. THE END WALL OF THE CHAMBER, WHEN PRESENT, WILL BE AN INTEGRAL PART OF THE CONTINUOUSLY FORMED UNIT. SEPARATE END PLATES CANNOT BE USED WITH THIS UNIT. 15. THE RECHARGER 330XLRHD STAND ALONE UNIT MUST BE FORMED AS A WHOLE CHAMBER HAVING TWO FULLY FORMED INTEGRAL END WALLS AND HAVING NO SEPARATE END PLATES OR SEPARATE END WALLS. 16. THE RECHARGER 330XLSHD STARTER UNIT MUST BE FORMED AS A WHOLE CHAMBER HAVING ONE FULLY FORMED INTEGRAL END WALL AND ONE PARTIALLY FORMED INTEGRAL END WALL WITH A LOWER TRANSFER OPENING OF 14 INCHES (356 mm) HIGH X 34.5 INCHES (876 mm) WIDE. 17. THE RECHARGER 330XLIHD INTERMEDIATE UNIT MUST BE FORMED AS A WHOLE CHAMBER HAVING ONE FULLY OPEN ENDWAL AND ONE PARTIALLY FORMED INTEGRAL END WALL WITH A LOWER TRANSFER OPENING OF 14 INCHES (356 mm) HIGH X 34.5 INCHES (876 mm) WIDE. 18. THE RECHARGER 330XLEHD END UNIT MUST BE FORMED AS A WHOLE CHAMBER HAVING ONE FULLY FORMED INTEGRAL END WALL AND ONE FULLY OPEN END WALL AND HAVING NO SEPARATE END PLATES OR END WALLS. 19. THE HVLV FC-24 FEED CONNECTOR MUST BE FORMED AS A WHOLE CHAMBER HAVING TWO OPEN END WALLS AND HAVING NO SEPARATE END PLATES OR SEPARATE END WALLS. THE UNIT WILL FIT INTO THE SIDE PORTALS OF THE RECHARGER 330XLHD AND ACT AS CROSS FEED CONNECTIONS.

20.CHAMBERS MUST HAVE HORIZONTAL STIFFENING FLEX REDUCTION STEPS BETWEEN THE RIBS. 21.HEAVY DUTY UNITS ARE DESIGNATED BY A COLORED STRIPE FORMED INTO THE PART ALONG THE LENGTH OF THE CHAMBER. 22. THE CHAMBER WILL HAVE A 6 INCH (152 mm) DIAMETER RAISED INTEGRAL CAP LOCATED ON TOP OF THE ARCH IN THE CENTER OF EACH UNIT TO BE USED AS AN OPTIONAL INSPECTION PORT OR CLEAN-OUT. 23 THE UNITS MAY BE TRIMMED TO CUSTOM LENGTHS BY CUTTING BACK TO ANY CORRUGATION. 24.THE CHAMBER SHALL BE MANUFACTURED IN AN ISO 9001:2008 CERTIFIED FACILITY. 25.MAXIMUM ALLOWED COVER OVER TOP OF UNIT SHALL BE 12 FEET (3.66 m)

> PIPE DESIGN AND ELEVATION -TBD BY ENGINEER. PIPE TO BE

INSERTED A 8.0" [203 MM] MIN INTO STRUCTURE AND 8.0'

[203 MM] MIN, INTO CHAMBER

MAX. PIPÉ SIZE = 24.0" [600 MM]

INLET STRUCTURE —

CULTEC NO. 66 WOVEN GEOTEXTILE

PLACED BENEATH INLET PIPES

6.0' [1.8 m] MIN. CULTEC NO. 66 WOVEN GEOTEXTILE

PLACED BENEATH FEED CONNECTOR

5. THE GEOTEXTILE SHALL HAVE A MULLEN BURST RESISTANCE OF 600PSI (4138 KPA) PER ASTM D3786 TESTING 6. THE GEOTEXTILE SHALL HAVE A TEAR RESISTANCE OF 115 LBS (0.51 KN) PER ASTM D4533 TESTING METHOD. 7. THE GEOTEXTILE SHALL HAVE A PUNCTURE RESISTANCE OF 150 LBS (0.66 KN) PER ASTM D4833 TESTING 8. THE GEOTEXTILE SHALL HAVE A CBR PUNCTURE RESISTANCE OF 900 LBS (4.00 KN) PER ASTM D6241 TESTING 9. THE GEOTEXTILE SHALL HAVE A UV RESISTANCE OF 70% @ 500 HRS. PER ASTM D4355 TESTING METHOD. 10. THE GEOTEXTILE SHALL HAVE A PERMITTIVITY RATING OF 0.05 SEC-1 PER ASTM D4491 TESTING METHOD. 11. THE GEOTEXTILE SHALL HAVE A WATER FLOW RATING OF 4 GPM/FT2 (160 LPM/M2) PER ASTM D4491 TESTING

CULTEC HVLV FC-24 FEED CONNECTOR PRODUCT SPECIFICATIONS

7. THE HVLV FC-24 FEED CONNECTOR CHAMBER SHALL HAVE 2 CORRUGATIONS

10. THE CHAMBER SHALL BE MANUFACTURED IN AN ISO 9001:2008 CERTIFIED FACILITY.

4. THE CHAMBER WILL BE OPEN-BOTTOMED.

CULTEC NO. 66™ WOVEN GEOTEXTILE

GENERAL NOTES

CULTEC TYPICAL INLET CONNECTION

- PIPE DESIGN AND ELEVATION TBD BY ENGINEER.

CULTEC RECHARGER 330XLHD HEAVY DUTY PLAN VIEW

CULTEC, Inc.

Subsurface Stormwater Management Systems

P.O. Box 280

CULTEC www.cultec.com

878 Federal Road

Brookfield, CT 06804

PIPE TO BE INSERTED 8.0 INCHES [204 mm] MIN. INTO CHAMBER. MAX. 24.0 INCHES [600 mm] I.D. ALLOWED IN ENDWALL

330XLHD CHAMBER

2. THE GEOTEXTILE SHALL BE BLACK IN APPEARANCE.

JULTEC HYLV FC-24 FEED CONNECTORS ARE DESIGNED TO CREATE AN INTERNAL MANIFOLD FOR CULTEC RECHARGER
MODEL 330XLHD STORMWATER CHAMBERS.

2. THE CHAMBER WILL BE VACUUM THERMOFORMED OF BLACK HIGH MOLECULAR WEIGHT HIGH DENSITY POLYETHYLENE

5. THE NOMINAL CHAMBER DIMENSIONS OF THE CULTEC HVLV FC-24 FEED CONNECTOR SHALL BE 12 INCHES (305 mm) TALL, 16 INCHES (406 mm) WIDE AND 24.2 INCHES (614 mm) LONG.

I. THE HYLV FC-24 FEED CONNECTOR MUST BE FORMED AS A WHOLE CHAMBER HAVING TWO OPEN END WALLS AND HAVING NO SEPARATE END PLATES OR SEPARATE END WALLS. THE UNIT WILL FIT INTO THE SIDE PORTALS OF THE CULTEC RECHARGER STORMWATER CHAMBER AND ACT AS CROSS FEED CONNECTIONS CREATING AN INTERNAL

9. THE CHAMBER WILL BE DESIGNED TO WITHSTAND TRAFFIC LOADS WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS.

1. THE GEOTEXTILE SHALL BE PROVIDED BY CULTEC, INC. OF BROOKFIELD, CT. (203-775-4416 OR 1-800-428-5832)

3. THE GEOTEXTILE SHALL HAVE A TENSILE STRENGTH OF 315 LBS (1.40KN) PER ASTM D4632 TESTING METHOD.

4. THE GEOTEXTILE SHALL HAVE A TENSILE ELONGATION RESISTANCE OF 15% PER ASTM D4632 TESTING METHOD.

CULTEC NO. 66™ WOVEN GEOTEXTILE IS UTILIZED AS AN UNDERLAYMENT TO PREVENT SCOURING

CAUSED BY WATER MOVEMENT WITHIN THE CULTEC CHAMBERS AND FEED CONNECTORS UTILIZING

. THE CHAMBERS WILL BE MANUFACTURED BY CULTEC, INC. OF BROOKFIELD, CT. (203-775-4416 OR 1-800-428-5832)

12. THE GEOTEXTILE SHALL HAVE A PERCENT OPEN AREA OF <1% PER CW-02215 TESTING METHOD. 13. THE GEOTEXTILE SHALL HAVE AN APPARENT OPENING SIZE OF 40 US STD. SIEVE (0.425 MM) PER ASTM D4751 TESTING METHOD. 26.THE CHAMBER WILL BE DESIGNED TO WITHSTAND TRAFFIC LOADS WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS. 14. THE GEOTEXTILE SHALL CONSIST OF A 100% HIGH-TENACITY, SILT-FILM POLYPROPYLENE YARNS.

FEED CONNECTOR

- MIN. 95% COMPACTED FILL

WHERE SPECIFIED

PH: (203) 775-4416

FX: (203) 775-1462

tech@cultec.com

PH: (800) 4-CULTEC

CULTEC NO. 410 NON-WOVEN GEOTEXTILE

- CULTEC HVLV FC-24 FEED CONNECTOR

1-2 INCH [25-51 mm] WASHED CRUSHED

STONE BENEATH AND ABOVE CHAMBERS

6.0 INCH [152 mm] MIN. DEPTH OF

CULTEC RECHARGER 330XLHD HEAVY-DUTY CHAMBER

12.0 INCH [305 mm] MIN. WIDTH OF 1-2 INCH [25-51 mm] WASHED CRUSHED STONE BORDER SURROUNDING ALL CHAMBERS

AROUND STONE. TOP AND SIDES MANDATORY,

BOTTOM PER ENGINEER'S DESIGN PREFERENCE

16.0" [406 mm]

12.0" [305 mm]

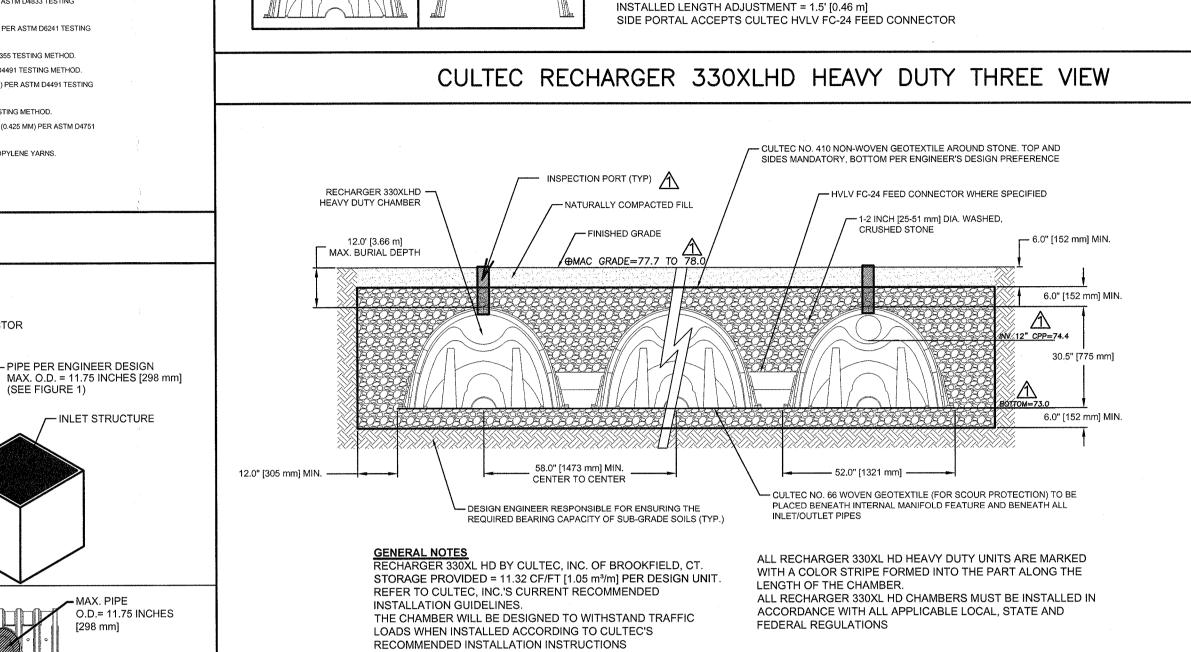
FEED CONNECTOR

(THREE VIEW)

- PIPE PER ENGINEER DESIGN

(SEE FIGURE 1)

ZOOM OF SIDE PORTAL SHOWING MAX. PIPE O.D.



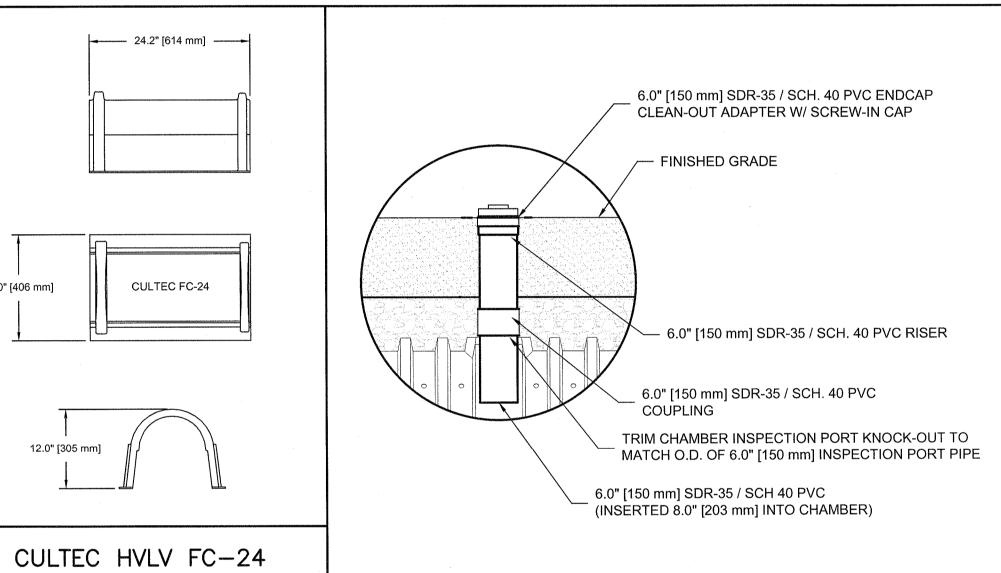
52.0" [1321 mm]

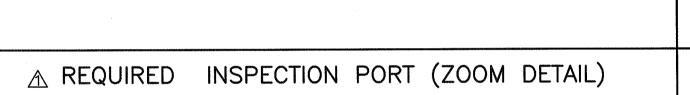
- 34.5" [876 mm] -

52.0" [1321 mm]

CULTEC RECHARGER 330XLHD CHAMBER STORAGE = 7.459 CF/FT [0.693 m³/m]







INSPECTION PORT

SMALL RIB

17.0" [432 mm]

102.0" [2591 mm]

INSTALLED LENGTH = 84.0" [2133 mm]

42.0" [1066 mm] 42.0" [1066 mm]

LARGE RIB -

- SIDE PORTAL FOR OPTIONAL

(ACCOMMODATES CULTEC HVLV

11.75 INCH [298 mm] MAX. O.D. PIPE

FC-24 FEED CONNECTOR OR

INTERNAL MANIFOLD

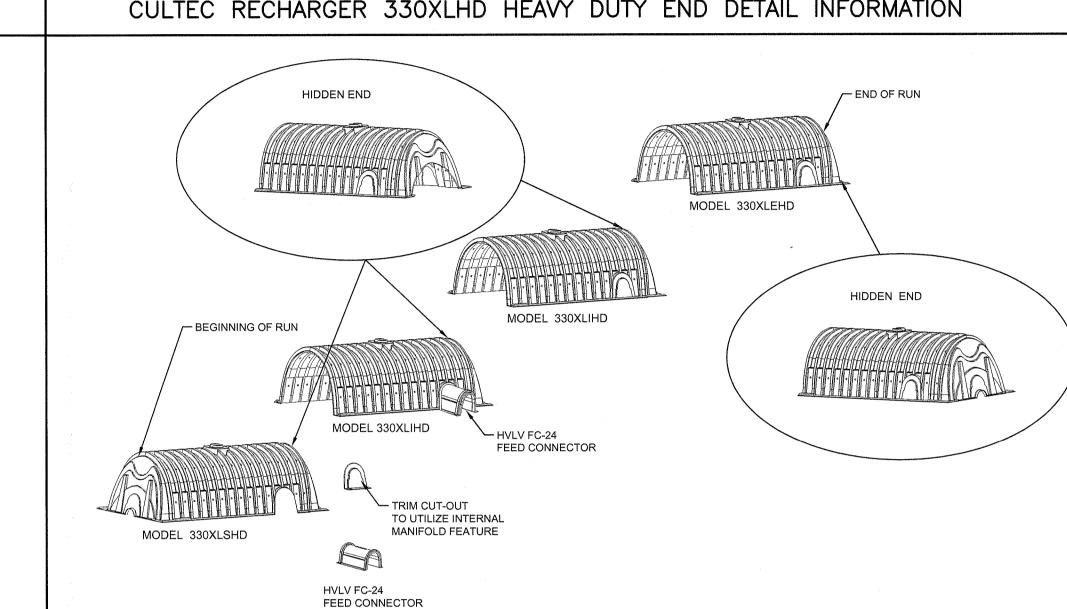
STAND ALONE SECTIONS. MODEL 330XLSHD STARTER UNITS ARE USED TO BEGIN A LINE. MODEL 330XLIHD INTERMEDIATE UNITS ARE USED AS MIDDLE **MODEL IHD** SECTIONS TO EXTEND THE LENGTH OF A LINE. **MODEL EHD** MODEL 330XLEHD END UNITS ARE USED TO END THE LENGTH OF A LINE. CULTEC RECHARGER 330XLHD HEAVY DUTY END DETAIL INFORMATION HIDDEN END

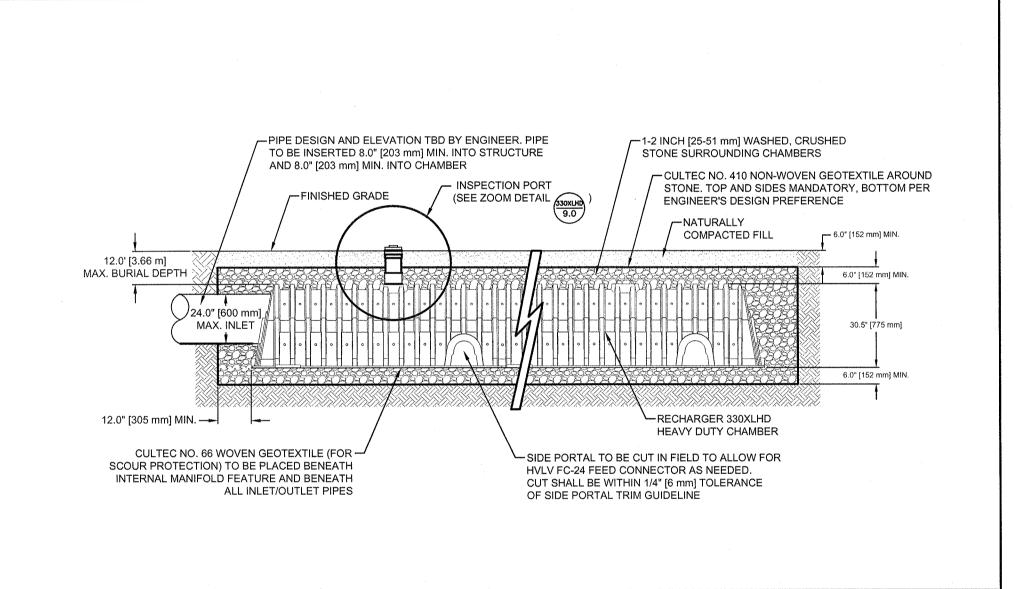
END DETAIL

LARGE RIB END DETAIL

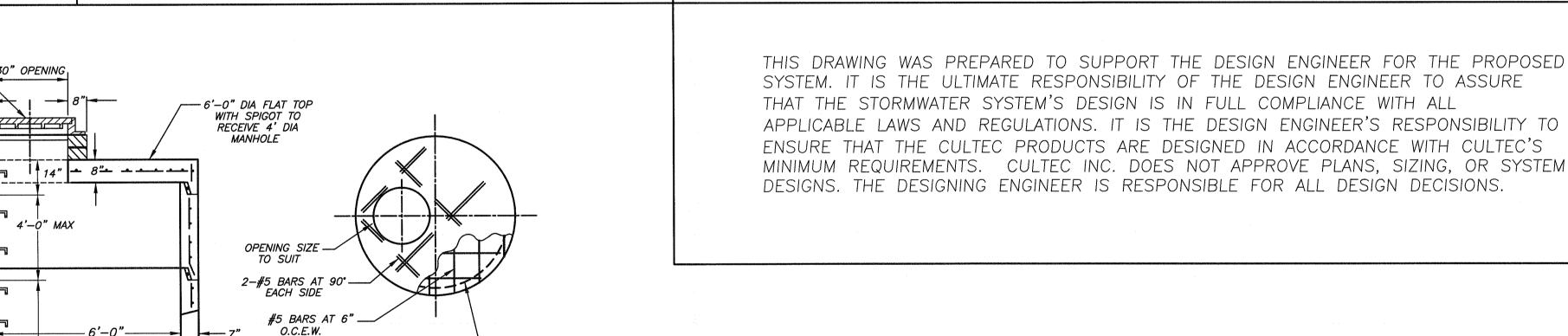
MODEL 330XLRHD STARTER

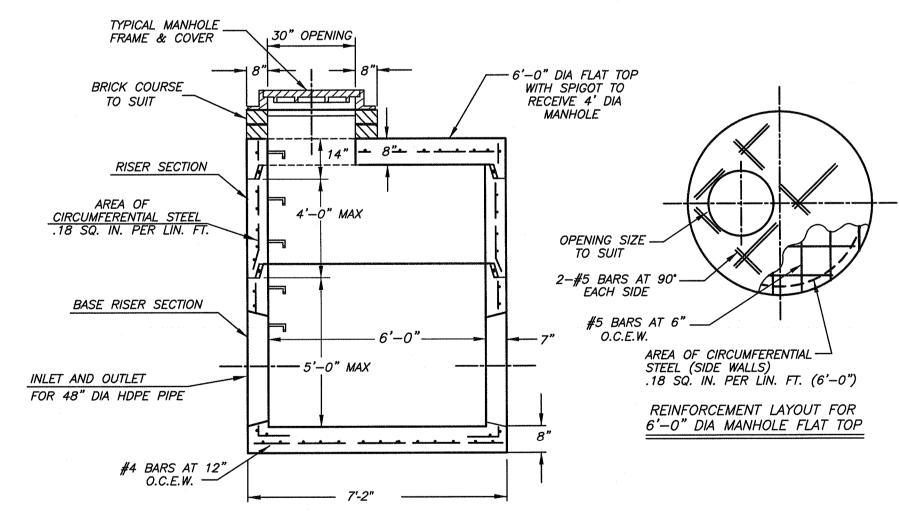
UNITS ARE USED AS SINGLE



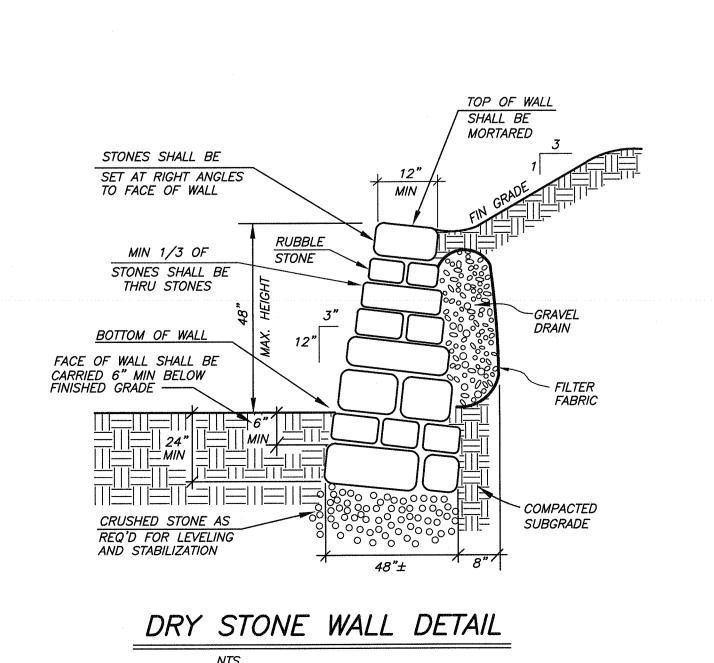


A CULTEC INTERNAL MANIFOLD- REQUIRED INSPECTION PORT DETAIL





TYPICAL 6'-0" DIA MANHOLE



\_\_CONC. CURB, 4500 PSI AIR-ENTRAINED PORTLAND CEMENT CROSS PITCH DRIVEWAY FROM NORTH TO SOUTH @ MAX. S=4% FINISHED GRADE-/ 1 1/2" ASPHALT CONC TYPE 3 BINDER COURSE 6" OF ITEM 4 CRUSHED STONE 3/4" CRUSHED STONE - FIRM, UNYIELDING SUBGRADE △ SITE CURBS & DRIVEWAY

(ORANGETOWN RURAL ROAD SPECIFICATIONS FOR PAVEMENT CROSS SECTION)

09/16/20 REV FOR PE

**DESIGNED** 

HECKED JA

APPROVED JA

GDANSKI CONSULTANTS, INC.

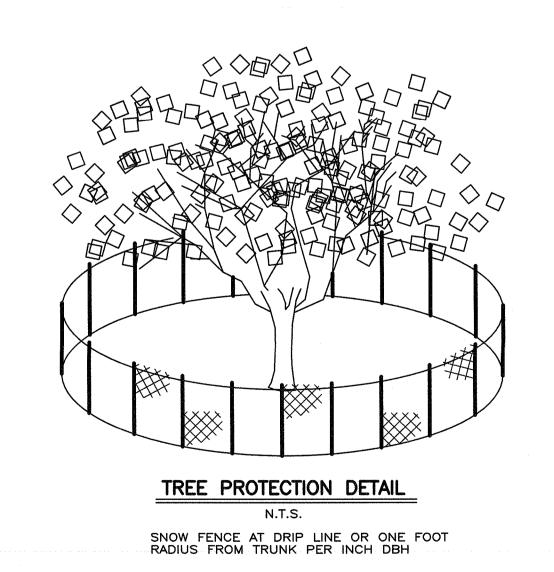
25 RIVERSIDE DRIVE

SUFFERN, NEW YORK, 10901

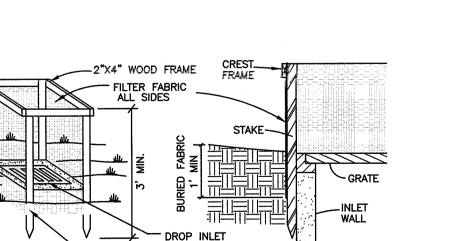
PAUL GDANSKI, PE

REVISIONS

GREENWELL, PLS

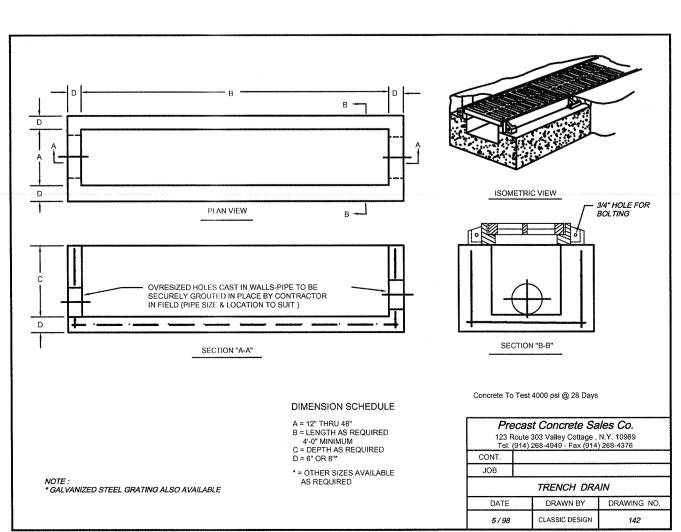


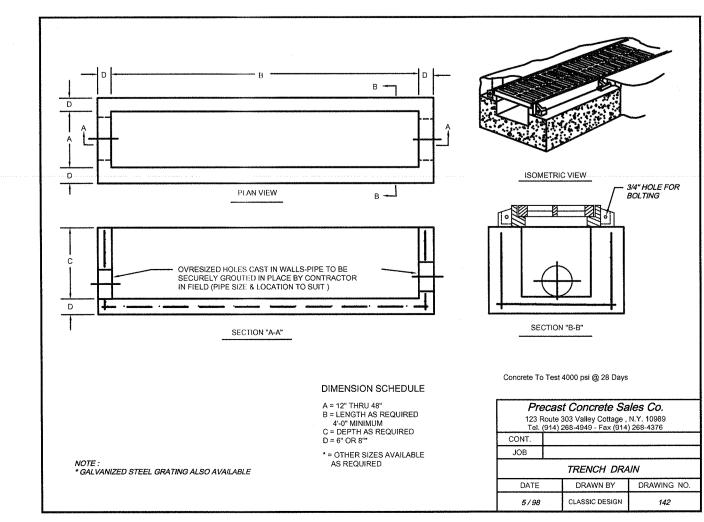
	DETAILS	TAX LOT # 70.05-1-16
	EBENEZER FULL GOSPEL ASSEMBLY	AREA SEE ABOVE
	LOCATED IN BLAUVELT, TOWN OF ORANGETOWN	FILE 21161DET
	ROCKLAND COUNTY, NEW YORK	SCALE AS NOTED
	JAY A. GREENWELL, PLS, LLC	DATE 11/12/19
<u>-</u>	LAND SURVEYING — LAND PLANNING 34 WAYNE AVENUE, SUFFERN, NEW YORK, 10901 PHONE 845—357—0830 GREENWELLPLS@AÖL.COM	JOВ NO. 21161



CONSTRUCTION SPECIFICATIONS 4. SPACE STAKES EVENLY AROUND INLET 1. FILTER FABRIC SHALL HAVE AN EOS OF 40-85. BURLAP MAY BE USED FOR SHORT INCHES DEEP. SPANS GREATER THAN 3 TERM APPLICATIONS. FEET MAY BE BRIDGED WITH THE USE OF CUT FABRIC FROM A CONTINUOUS ROLL TO WIRE MESH BEHIND THE FILTER FABRIC ELIMINATE JOINTS. IF JOINTS ARE NEEDED FOR SUPPORT. THEY WILL BE OVERLAPPED TO THE NEXT 5. FABRIC SHALL BE EMBEDDED 1 FOOT MINIMUM BELOW THE GROUND AND 3. STAKE MATERIALS WILL BE STANDARD 2"X4" BACKFILLED. IT SHALL BE SECURELY WOOD OR EQUIVALENT METAL WITH A MINIMUM FASTENED TO THE STAKES AND FRAME. LENGTH OF 3 FEET. 6. A 2"X4" WOOD FRAME SHALL BE COMPLETED AROUND THE CREST OF THE

DROP INLET PROTECTION





21161



