

CULTEC STORMFILTER 330 WATER QUALITY UNIT SPECIFICATIONS

GENERAL
CULTEC STORMFILTER® 330 DESIGNED AS A WATER QUALITY UNIT. THE UNIT MAY BE USED TO FILTER STORMWATER RUN-OFF VIA PASS-THRU FILTRATION BAFFLES.

- STORMFILTER 330 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 BLACK POLYETHYLENE.
 3. THE CHAMBER SHALL BE ARCHED IN SHAPE.
 4. THE CHAMBER SHALL HAVE A WELDED AND SECURED SOLID BOTTOM PLATE.
 5. THE NOMINAL CHAMBER DIMENSIONS OF THE CULTEC STORMFILTER® 330 SHALL BE 36 INCHES (914 MM) TALL, 55 INCHES (1397 MM) WIDE AND 8 FEET (2.44 M) LONG.
 6. THE CHAMBER SHALL HAVE A 22.5 INCH (572 MM) DIAMETER ACCESS OPENING LOCATED AT THE TOP OF THE UNIT.
 7. MAXIMUM INLET OPENING ON THE CHAMBER END WALL IS 24 INCHES (600 MM) WHEN UTILIZING BYPASS CAPABILITY.
 8. THE RECOMMENDED INLET PIPE DIAMETER IS 8 INCHES (200 MM) FOR FULL FILTERING CAPACITY.
 9. THE RECOMMENDED OUTLET PIPE DIAMETER IS 15 INCHES (375 MM) FOR FULL FILTERING CAPACITY.
 10. THE CHAMBER SHALL HAVE TWO SIDE PORTALS TO ACCEPT CULTEC HVLV™ FC-24 FEED CONNECTORS. THE NOMINAL DIMENSIONS OF EACH SIDE PORTAL SHALL BE 12 INCHES (305 MM) HIGH BY 10.5 INCHES (267 MM) WIDE. MAXIMUM ALLOWABLE PIPE SIZE IN THE SIDE PORTAL IS 10 INCHES (250 MM).
 11. THE NOMINAL STORAGE VOLUME OF THE STORMFILTER® 330 SHALL BE 418.5 GAL / UNIT (1594 L/UNIT).
 12. THE STORMFILTER® 330 CHAMBER SHALL HAVE 14 CORRUGATIONS.
 13. THE STORMFILTER 330 SHALL BE DESIGNED TO WITHSTAND TRAFFIC LOADS WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS.
 14. THE STORMFILTER® 330 HAS A MAXIMUM FILTERING CAPACITY OF 740.6 GPM (2800 L/MIN).
 15. THE MAXIMUM BURIAL DEPTH SHALL NOT EXCEED 4 FEET (1.22 M).
 16. THE CHAMBER SHALL BE MANUFACTURED IN AN ISO 9001:2008 CERTIFIED FACILITY.

FILTER FRAME BAG SPECIFICATIONS

GENERAL
CULTEC'S FILTER ENCLOSURES, MANUFACTURED FROM A GEOTEXTILE COMPOSED OF POLYPROPYLENE YARNS, WHICH ARE WOVEN INTO A STABLE NETWORK SUCH THAT THE YARNS RETAIN THEIR RELATIVE POSITION. THE GEOTEXTILE FILTERS ARE INERT TO BIOLOGICAL DEGRADATION AND RESIST NATURALLY ENCOUNTERED CHEMICALS, ALKALIS, AND ACIDS AND ARE DESIGNED TO FIT COLLAPSIBLE METAL FRAMES.

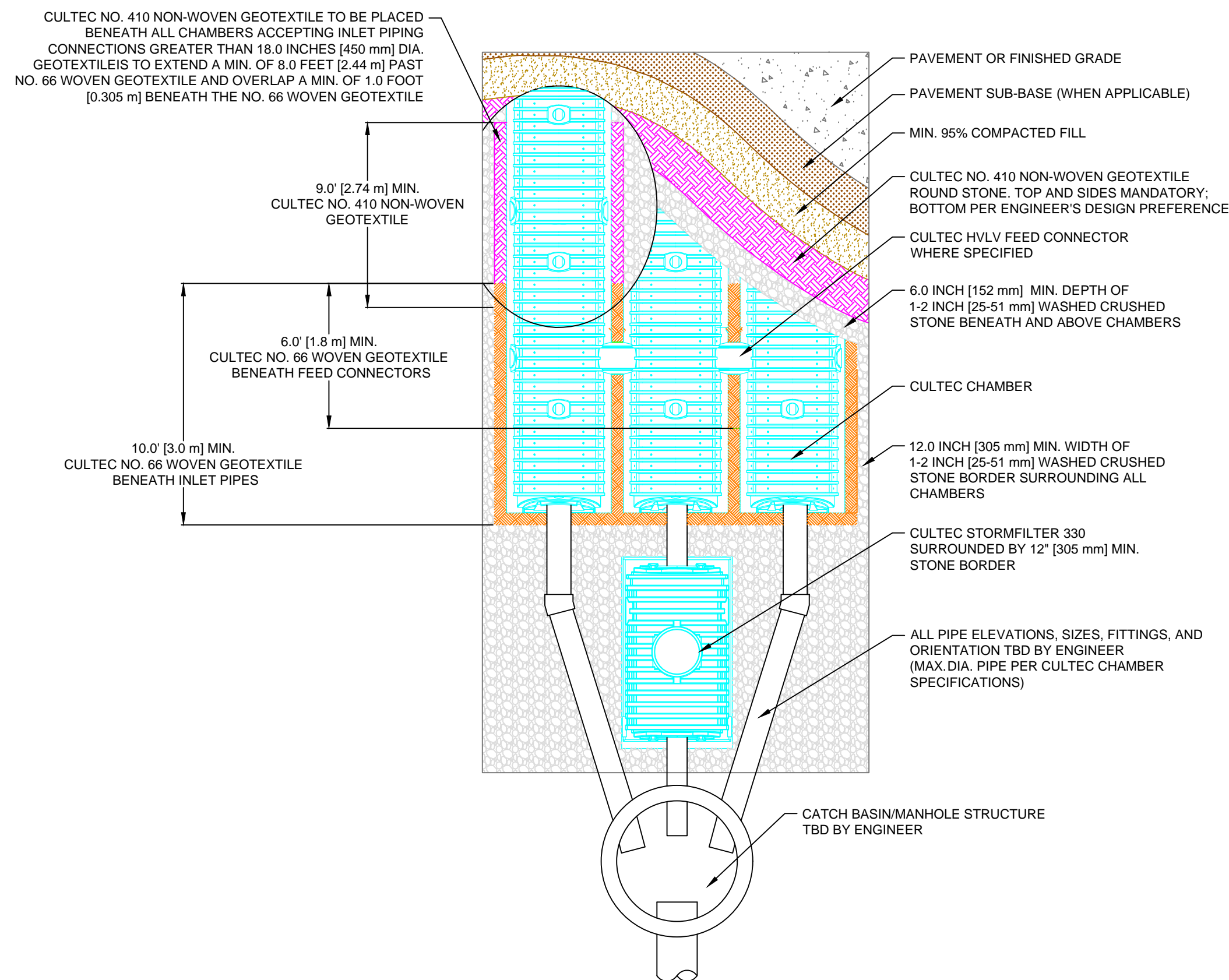
- FILTER FRAME BAG PARAMETERS**
1. THE GEOTEXTILE SHALL BE PROVIDED BY CULTEC, INC. OF BROOKFIELD, CT (203-775-4416 OR 1-800-428-5832).
 2. THE FILTER ENCLOSURES ARE CONSTRUCTED FROM GEOTEXTILE COMPOSED OF POLYPROPYLENE YARNS, WHICH ARE WOVEN INTO A STABLE NETWORK SUCH THAT THE YARNS RETAIN THEIR RELATIVE POSITION.
 3. THE FILTER BAG SHALL HAVE A NOMINAL AREA OF 2.74 FT² (0.255 M²).
 4. THE GEOTEXTILE SHALL BE BLACK IN APPEARANCE.
 5. THE GEOTEXTILE SHALL HAVE A GRAB TENSILE STRENGTH VALUE OF 400 LBS MD/335 LBS CD (1780 N MD/1491 N CD) PER ASTM D4632 TESTING METHOD.
 6. THE GEOTEXTILE SHALL HAVE AN GRAB TENSILE ELONGATION VALUE OF 20% MD/15% CD PER ASTM D4632 TESTING METHOD.
 7. THE GEOTEXTILE SHALL HAVE A TRAPEZOID TEAR VALUE OF 145 LBS MD/125 LBS CD (645 N MD/556 N CD) PER ASTM D4533 TESTING METHOD.
 8. THE GEOTEXTILE SHALL HAVE A CBR PUNCTURE STRENGTH VALUE OF 1250 LBS (565k N) PER ASTM D6241 TESTING METHOD.
 9. THE GEOTEXTILE SHALL HAVE A PERCENT OPEN AREA VALUE OF 8% PER COE-02215 TESTING METHOD.
 10. THE GEOTEXTILE SHALL HAVE A FLOW RATE VALUE OF 115 GPM/FT² (4685 LPM/M²) PER ASTM D4491 TESTING METHOD.
 11. THE GEOTEXTILE SHALL HAVE AN APPARENT OPENING SIZE (AOS) VALUE OF 30 U.S. SIEVE (0.60 MM) PER ASTM D4751 TESTING METHOD.
 12. THE GEOTEXTILE SHALL HAVE A UV RESISTANCE (AT 500 HOURS) VALUE OF 90% STRENGTH RETAINED PER ASTM D4355 TESTING METHOD.

FILTERING SPECIFICATIONS

1. THE FILTER REMOVES MORE THAN 70% OF THE TOTAL SUSPENDED SOLIDS TYPICALLY PRESENT IN STORMWATER RUN OFF.
2. CONTINUOUS FILTRATION CAPABILITY FOR CLEAN FILTERS IS RATED AT 1.65 CFS (0.0467 M³/S).
3. TREATMENT CAPABILITY IS APPROXIMATELY 740.6 GPM (2800 L/MIN).

SF-330
1.0

GENERAL NOTES



SF-330
6.0

CULTEC STORMFILTER 330 OVERFLOW/BYPASS PLAN VIEW

MAINTENANCE PROCEDURES

GENERAL
THE CULTEC STORMFILTER 330 SHOULD BE INSPECTED FOR THE FIRST TIME IMMEDIATELY AFTER THE FIRST RAINFALL OF THE STORMWATER SYSTEM OPERATION. FOLLOWING THE FIRST INSPECTION, IT IS RECOMMENDED TO BE INSPECTED QUARTERLY OR WHEN AN EXTREME STORM OCCURS. ALWAYS FOLLOW OSHA GUIDELINES DURING MAINTENANCE PROCEDURES ON THE STORMFILTER 330.

MAINTENANCE GUIDELINES

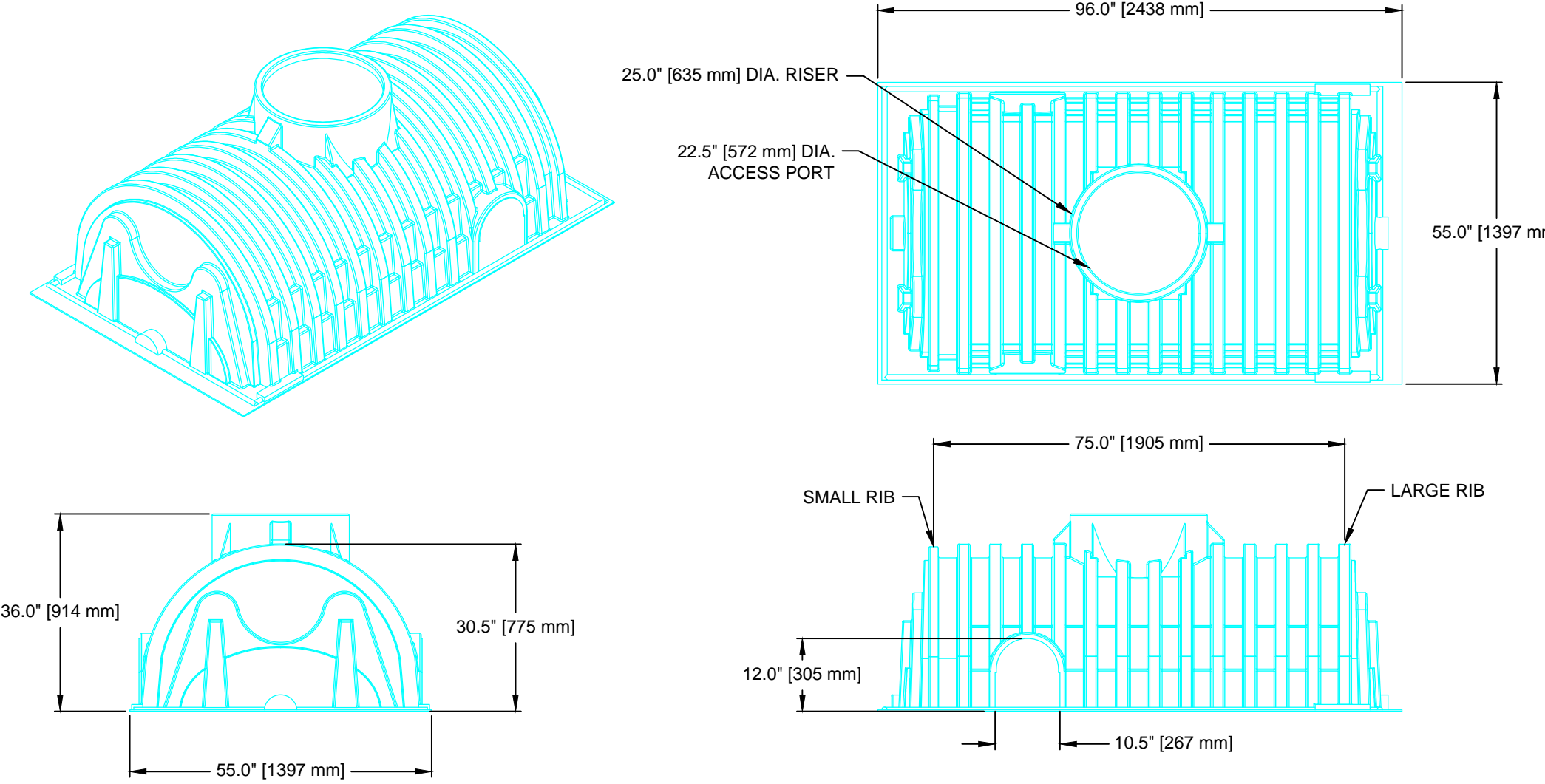
1. THE OWNER SHALL KEEP A MAINTENANCE LOG WHICH SHALL INCLUDE DETAILS OF ANY EVENTS WHICH WOULD HAVE AN EFFECT ON THE SYSTEM'S OPERATIONAL CAPACITY.
2. THE OPERATION AND MAINTENANCE PROCEDURE SHALL BE REVIEWED PERIODICALLY AND CHANGED TO MEET SITE CONDITIONS.
3. MAINTENANCE OF THE STORMWATER MANAGEMENT SYSTEM SHALL BE PERFORMED BY QUALIFIED WORKERS AND SHALL FOLLOW APPLICABLE OCCUPATIONAL HEALTH AND SAFETY REQUIREMENTS.
4. DEBRIS REMOVED FROM THE STORMWATER MANAGEMENT SYSTEM SHALL BE DISPOSED OF IN ACCORDANCE WITH APPLICABLE LAWS AND REGULATIONS.

INSPECTION

1. BARRICADE OFF THE SERVICE AREA ACCORDING TO LOCAL REGULATORY SAFETY PROCEDURES. TWO PERSONS SHOULD BE AVAILABLE FOR INSPECTION AND MAINTENANCE.
2. ALLOW THE STORMFILTER TO BE PROPERLY VENTED BY OPENING THE AT-GRADE GRATE AND THE STORMFILTER COVER. A FAN IS RECOMMENDED TO IMPROVE VENTILATION. IT MAY NOT BE NECESSARY TO ENTER THE STORMFILTER CHAMBER, IF IT IS CLOSER TO GRADE.
3. INSPECT THE CHAMBER FOR SILT AND SEDIMENT. IF IT IS FOUND THAT SEDIMENT HAS ACCUMULATED, MEASURE THE SEDIMENT DEPTH. THIS CAN BE DONE WITH A STADIA ROD. CHECK EACH OF THE FILTER BAYS AND RECORD THE DEPTH OF SILT IN EACH. WE RECOMMEND CLEANOUT WHEN THE DEPTH OF SEDIMENT IN THE THIRD BAY (BEFORE THE LAST FILTER) EXCEEDS 3 INCHES.

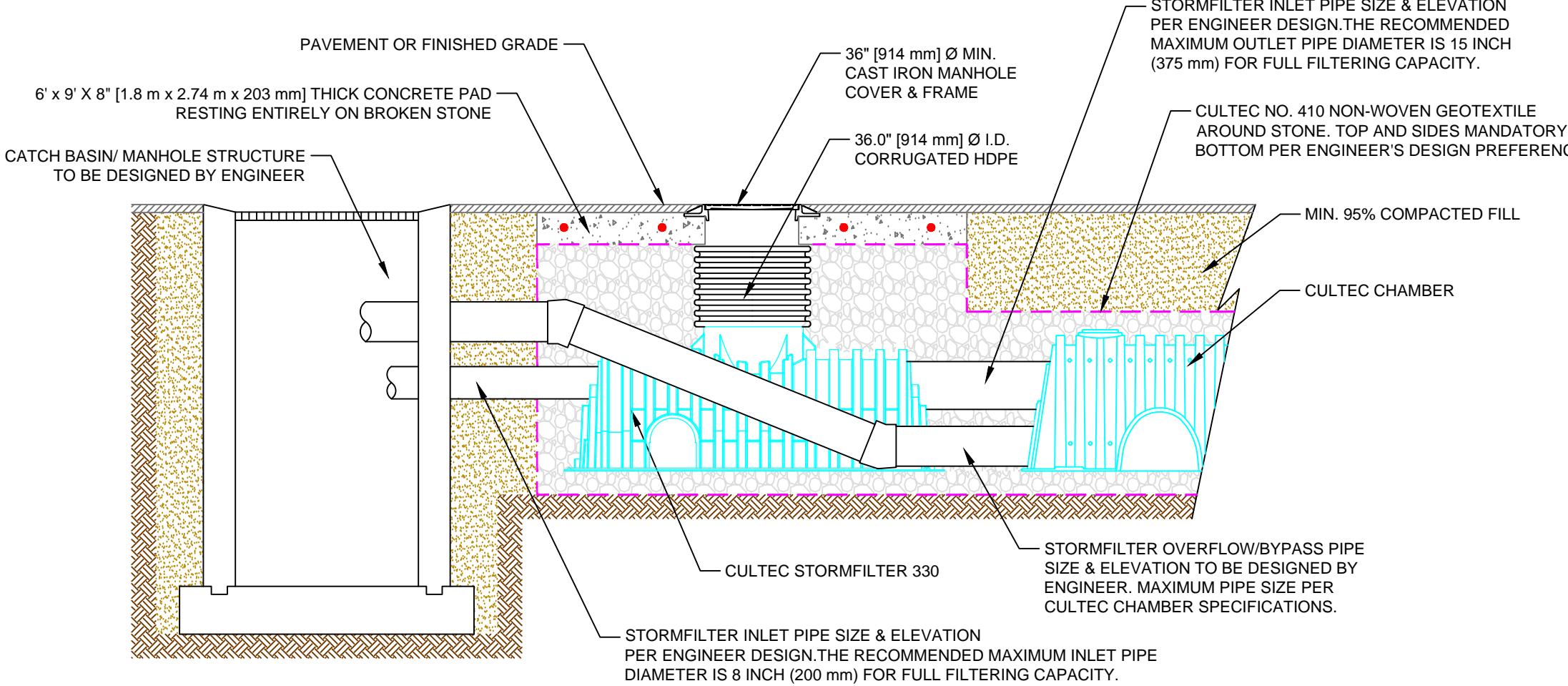
MAINTENANCE

1. USING A VACUUM, REMOVE WATER AND DIRT FROM THE STORMFILTER CHAMBER.
2. PRESSURE WASH THE FILTERS IN PLACE AND REPEAT DIRT REMOVAL.
3. IF NECESSARY, REMOVE AND REPLACE THE PARTICULATE FILTERS BY SEPARATING THE TOP VELCRO OR ZIPPER ON THE PARTICULATE FILTER BAG AND RELEASING THE TOP FRAME LOCK BY LOOSENING THE NUT AND BOLT AT THE TOP CENTER OF EACH FILTER FRAME. AFTER RELEASING THE BOLT, PULL UP ON THE CENTER FRAME RELEASE ARM AND THE FRAME AND FILTER BAG WILL COLLAPSE. REMOVE IT FROM THE STORMFILTER HOUSING RIBS. THE FILTER CAN THEN BE REMOVED FROM THE FRAME AND WASHED OR REPLACED.
4. IT MAY BE NECESSARY TO VACUUM THE STORMFILTER AGAIN IN ORDER TO PROPERLY RESEAT THE CLEAN FILTERS INTO THE RIBS THAT THE FRAME IS SET INTO. IF THE FRAMES DO NOT REINSTALL PROPERLY, IT MAY BE NECESSARY TO ADJUST THE WIDTH OF THE FRAME BY MOVING THE LOCKING PINS AT THE TOP OR BOTTOM CENTER OF THE STAINLESS STEEL ARMS TO RESET THEM.



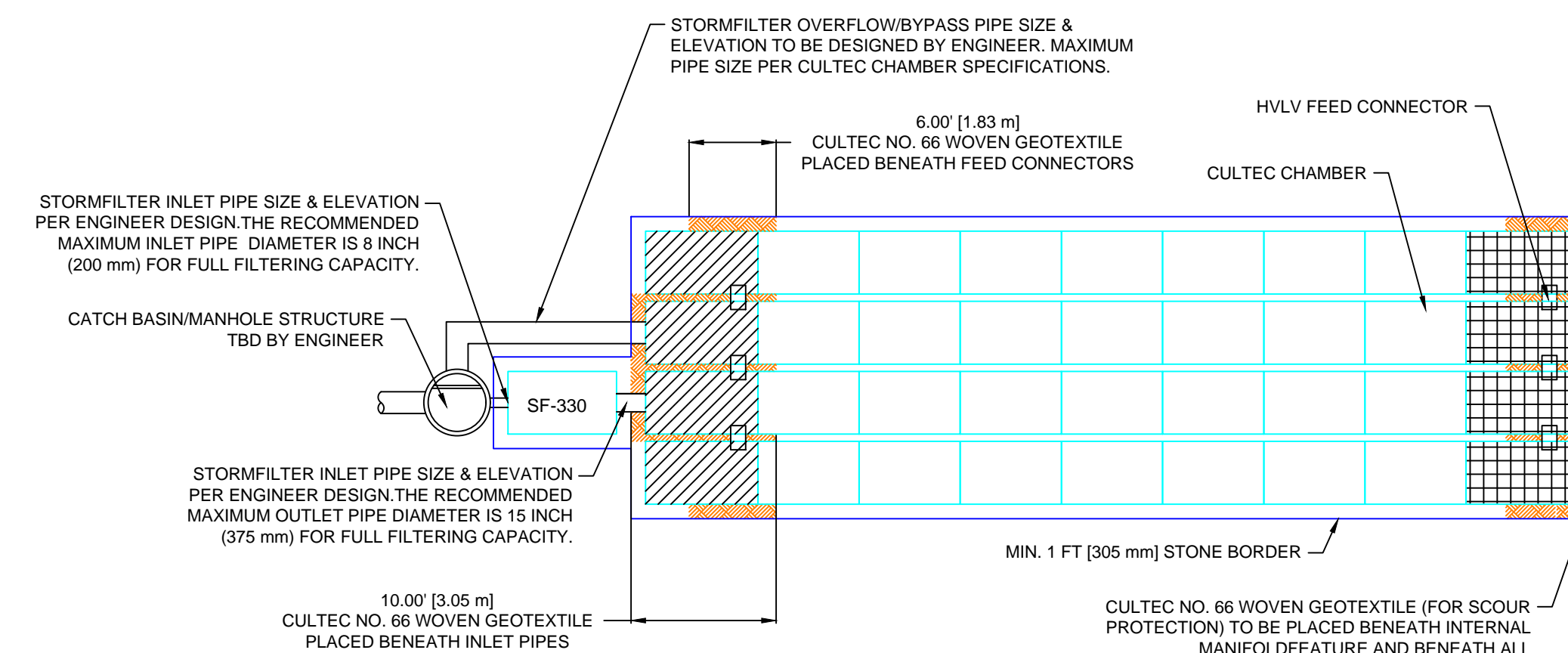
CULTEC STORMFILTER 330 THREE VIEW

SF-330
2.0



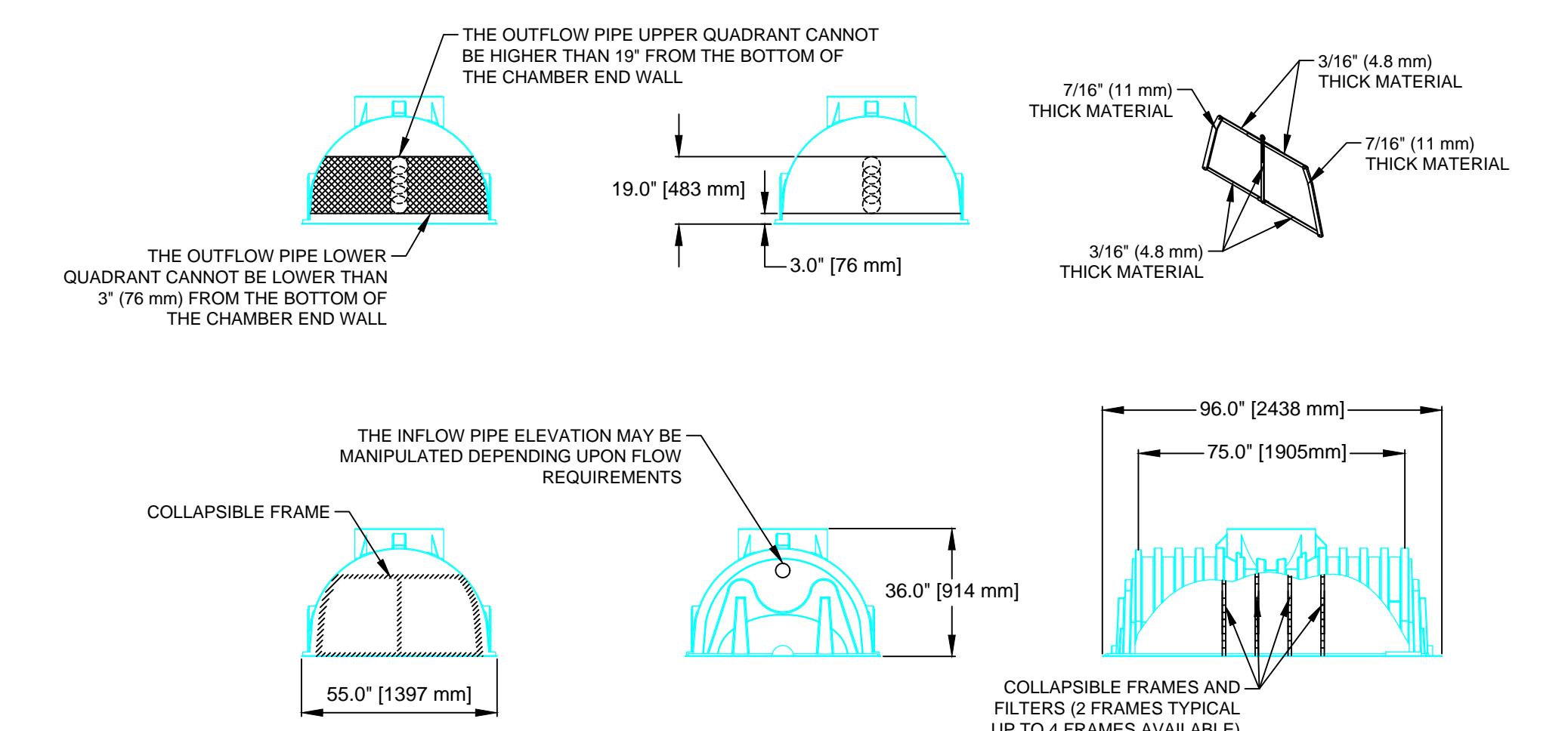
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4.0

CULTEC STORMFILTER 330 OVERFLOW/BYPASS CROSS SECTION



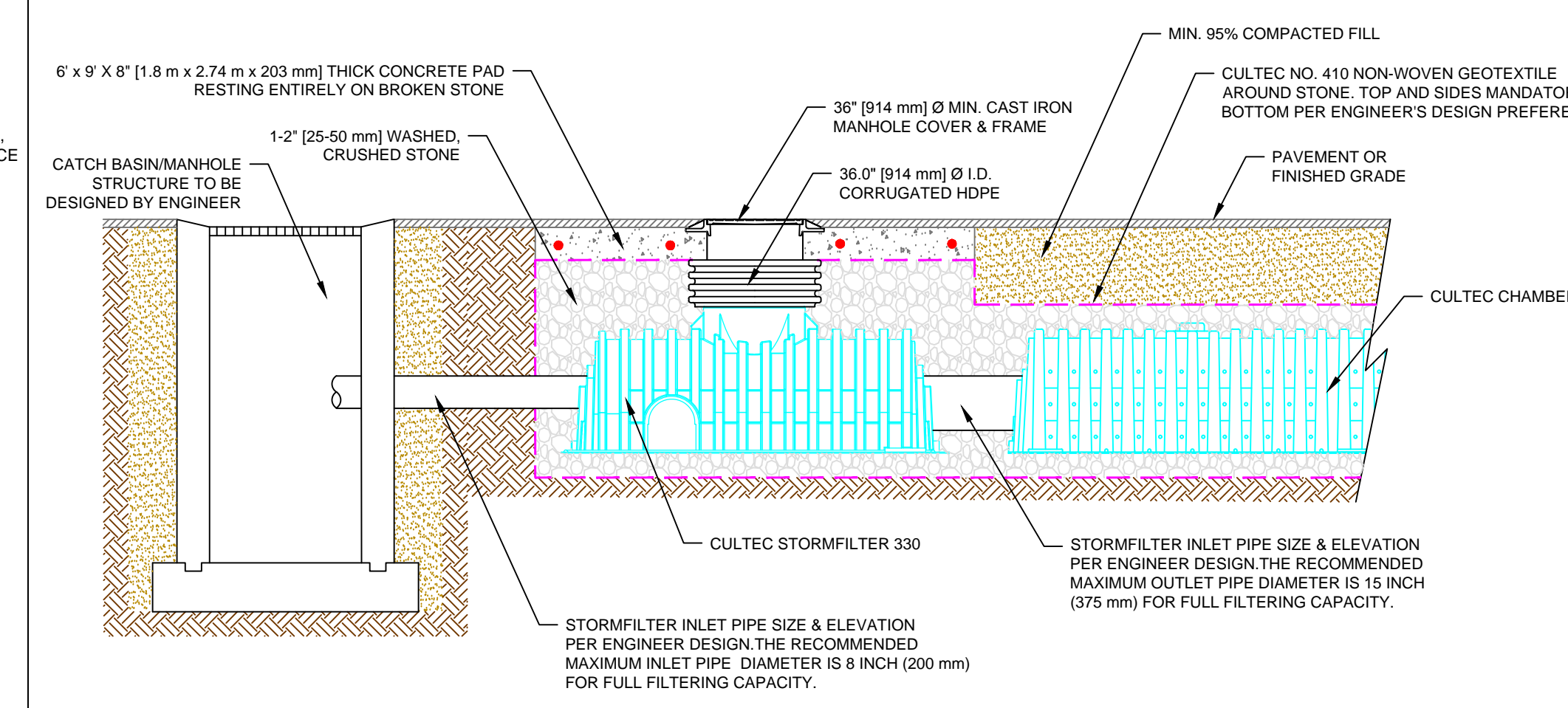
SF-330
7.0

CULTEC STORMFILTER 330 EXAMPLE LAYOUT



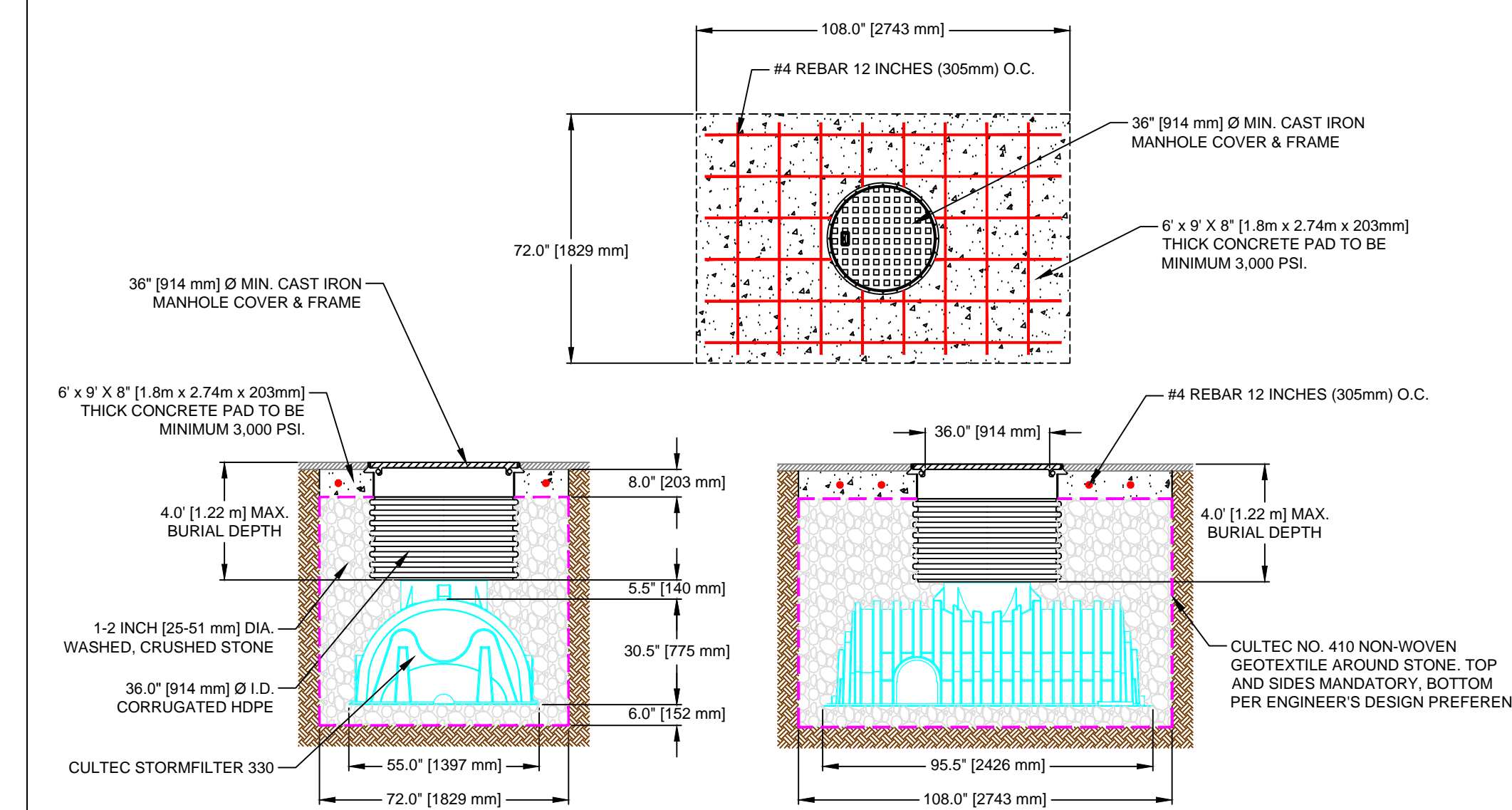
SF-330
3.0

CULTEC FILTER FRAME DETAIL



SF-330
5.0

CULTEC STORMFILTER 330 TYPICAL INLET CONNECTION CROSS SECTION



SF-330
8.0

CULTEC STORMFILTER 330 INSTALLATION CROSS SECTION



CULTEC, Inc.

Subsurface Stormwater Management Systems

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PH: (800) 4-CULTEC
FX: (203) 775-1462
tech@cultec.com

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

**STORMFILTER 330
TRAFFIC APPLICATION
DETAIL SHEET**

CULTEC STORMFILTER® 330

PROJECT NO: -	DATE: 09/2015
DESIGNED BY: CULTEC, INC	DRAWN BY: TECH
SCALE: N.T.S.	SHEET NO: 1 OF 2

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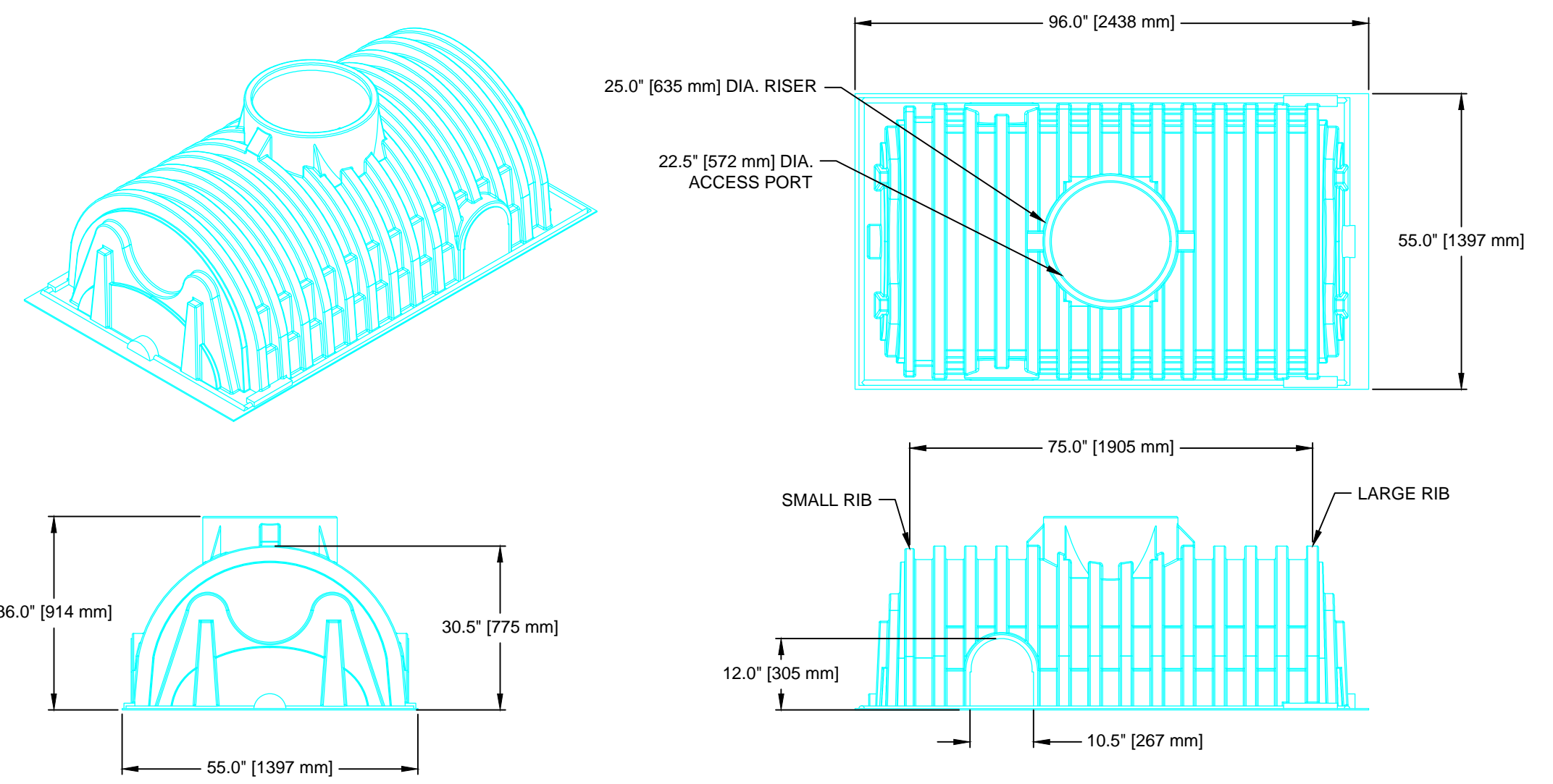
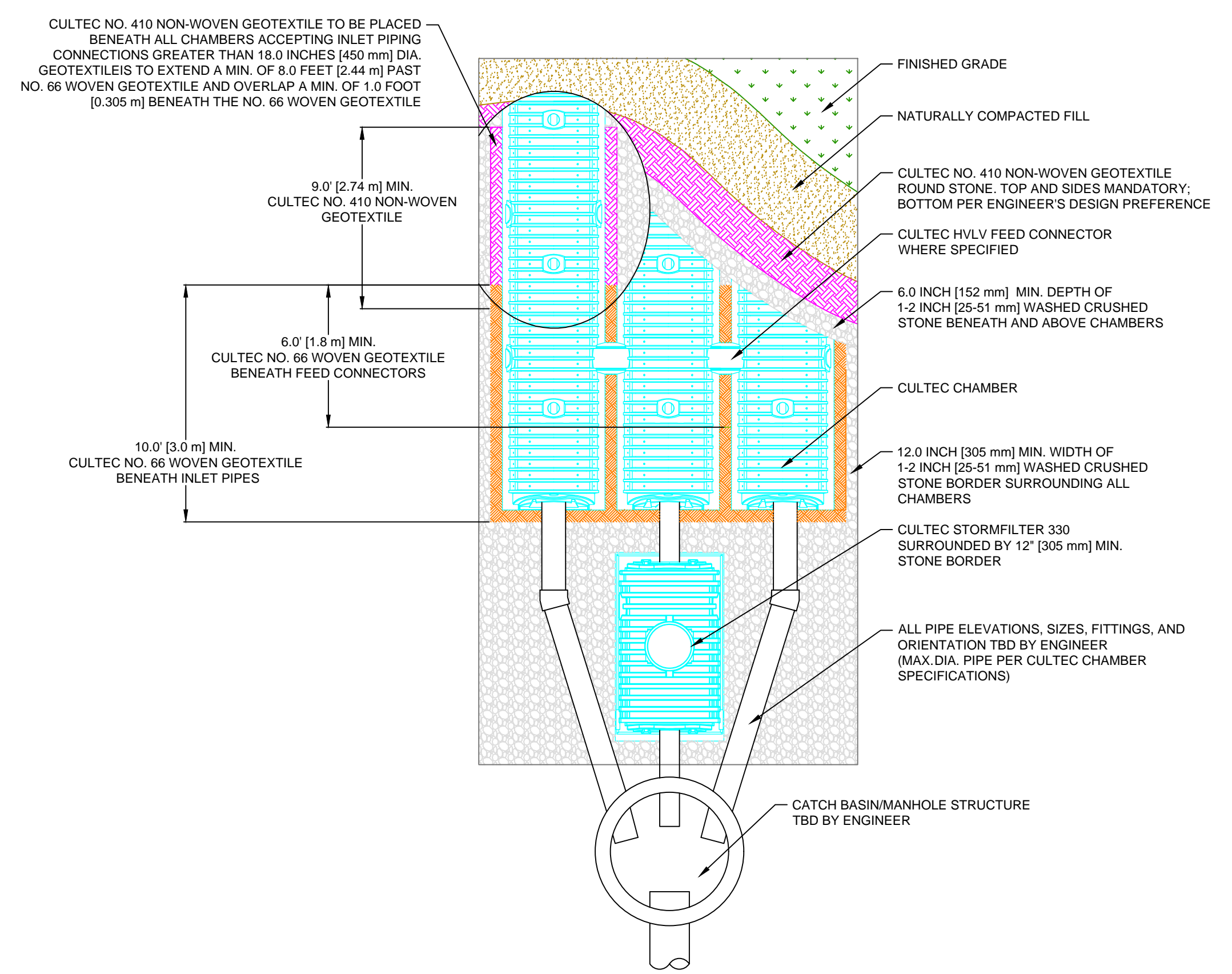
MAINTENANCE PROCEDURES

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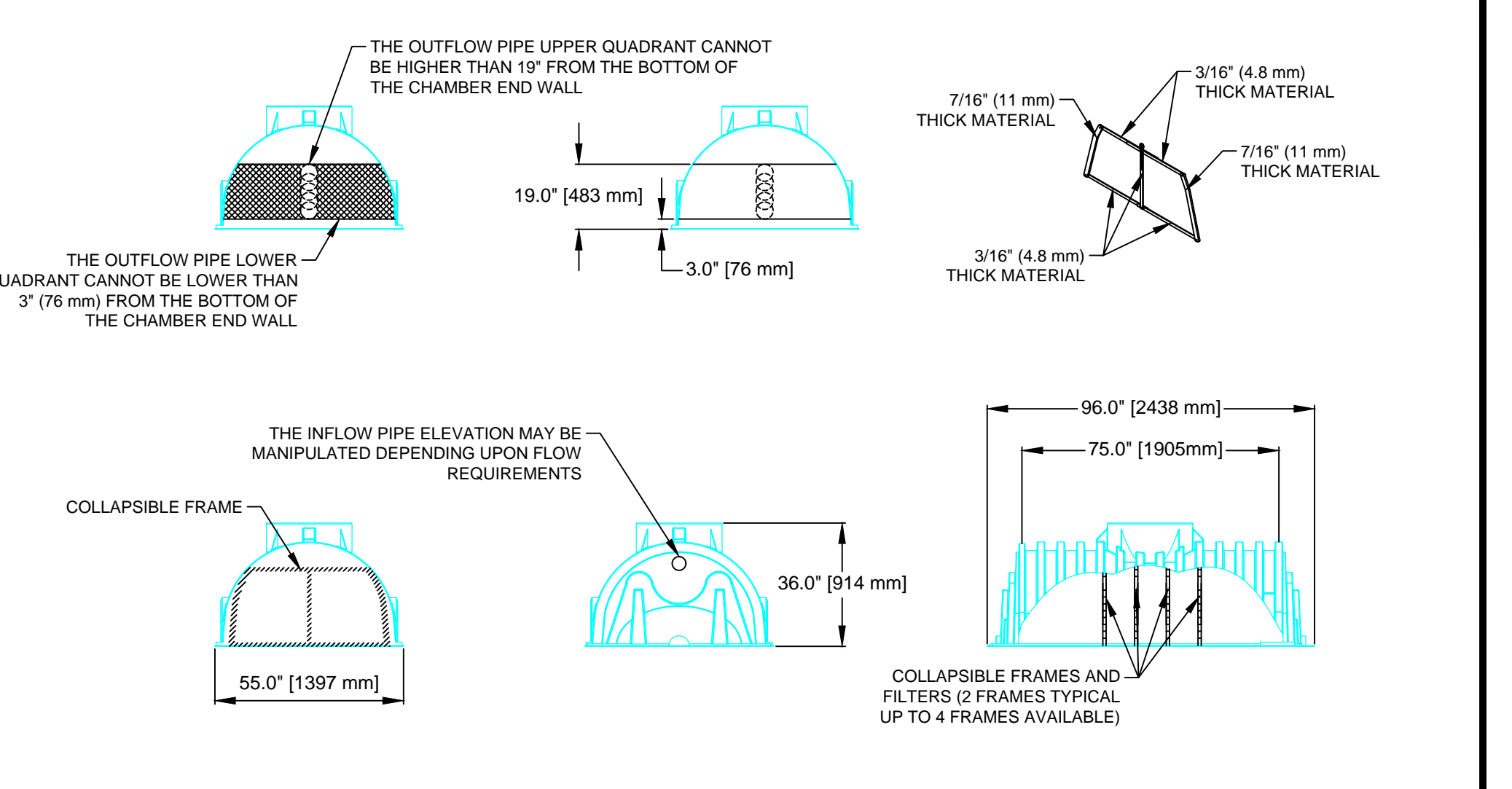
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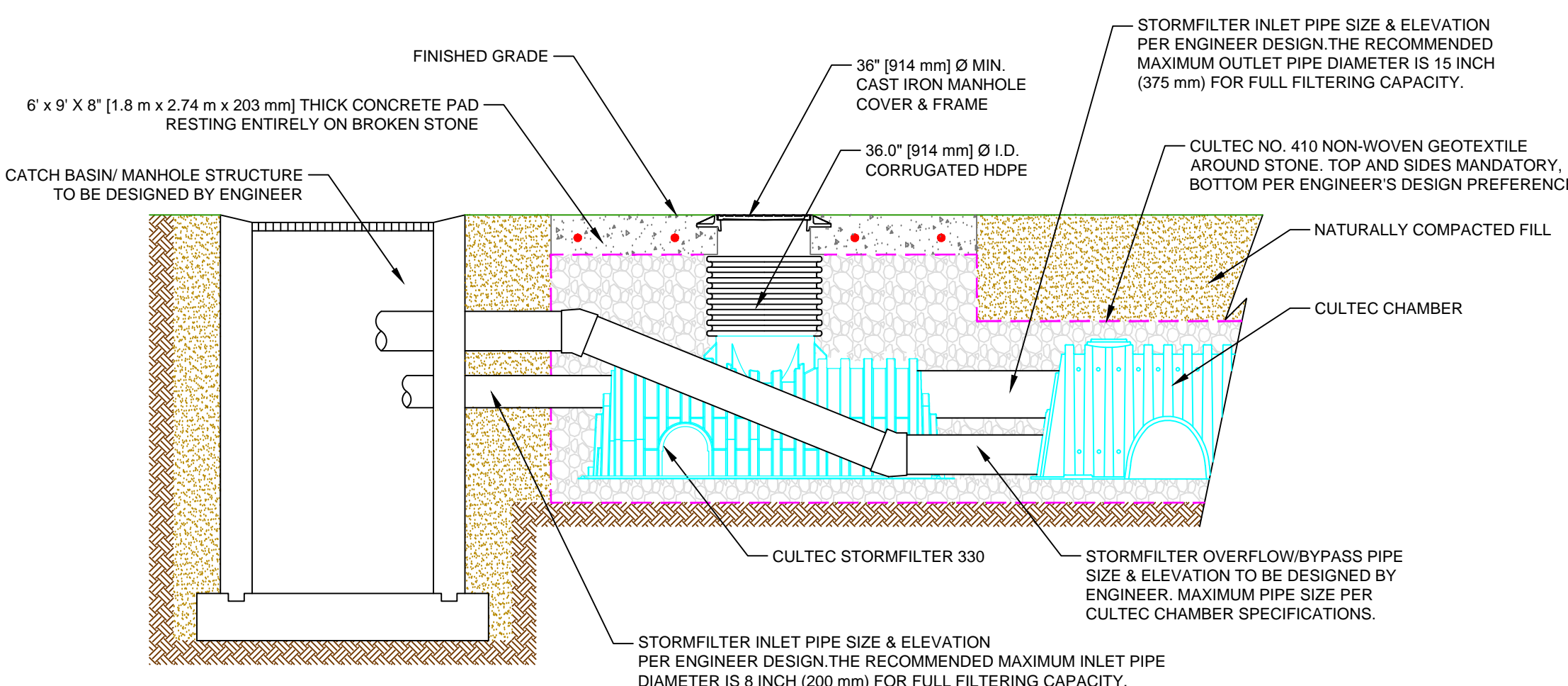
GENERAL NOTES



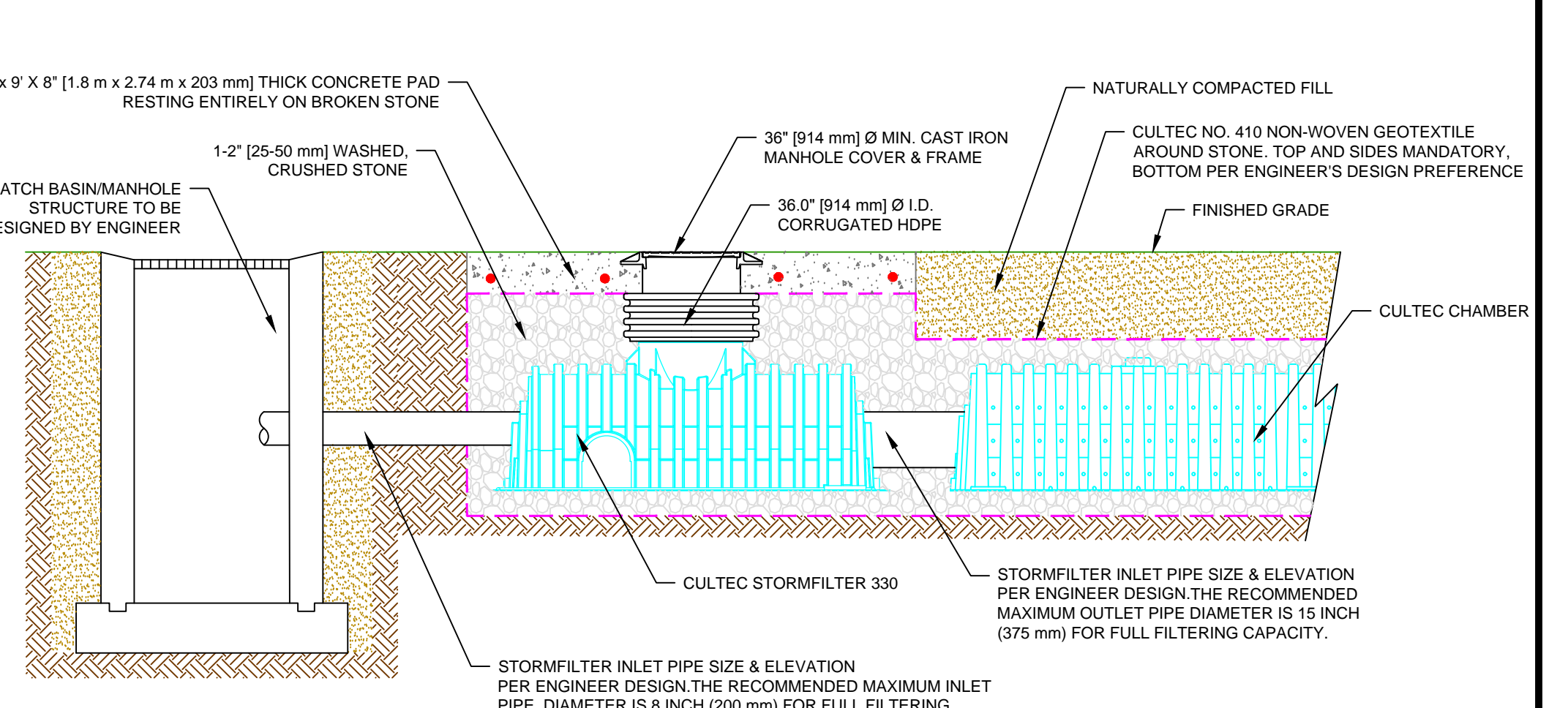
CULTEC STORMFILTER 330 THREE VIEW



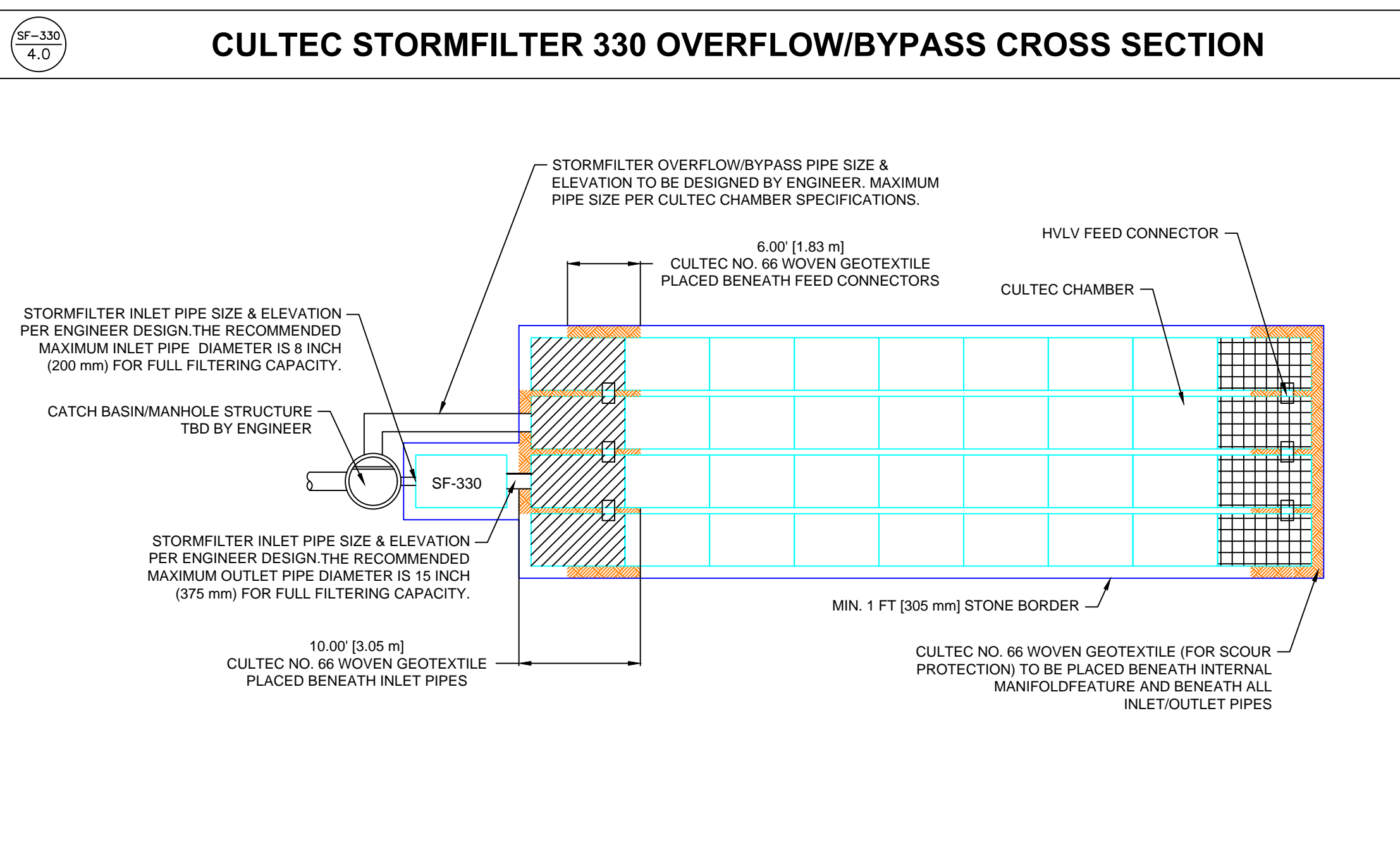
CULTEC FILTER FRAME DETAIL



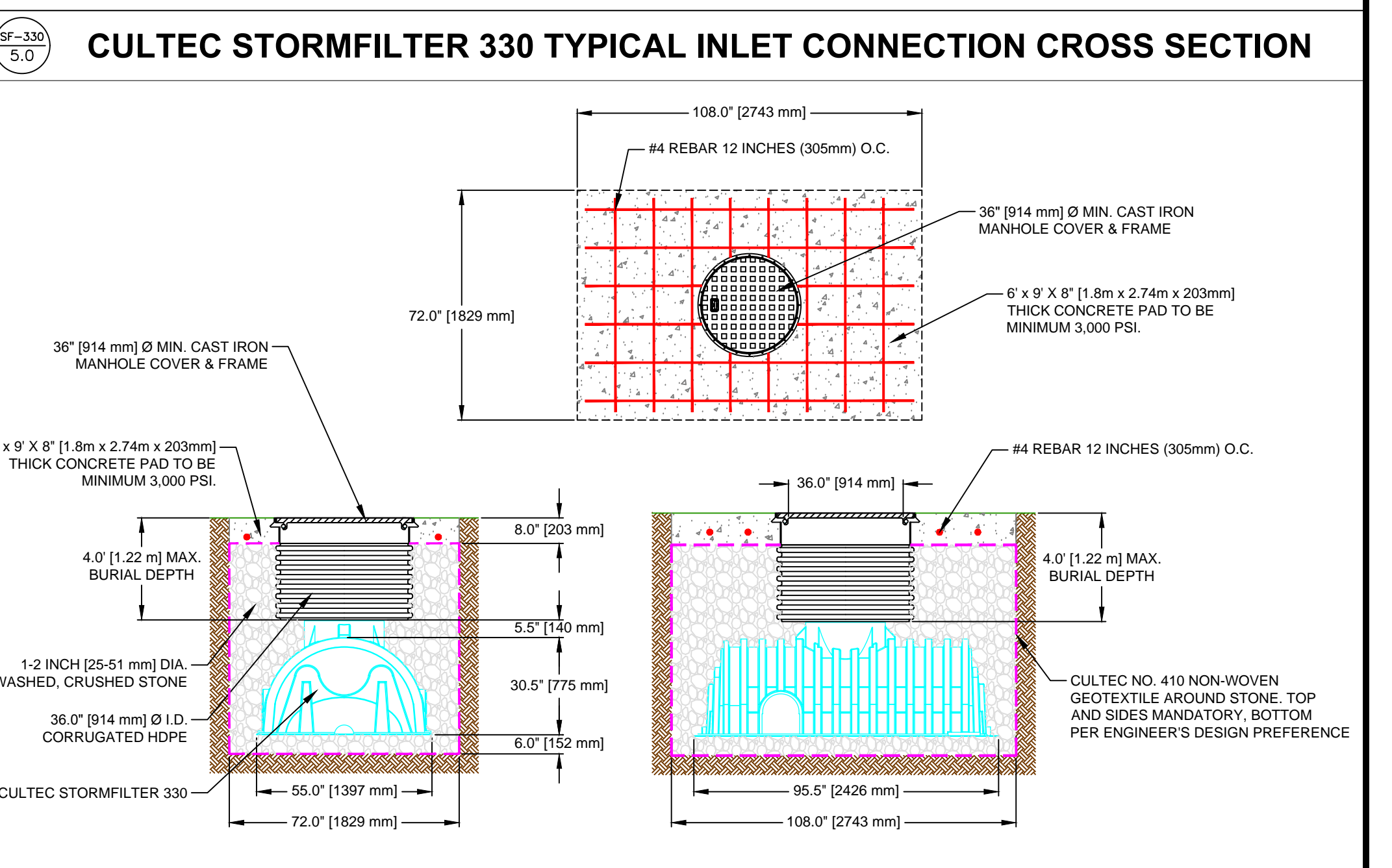
CULTEC STORMFILTER 330 OVERFLOW/BYPASS CROSS SECTION



CULTEC STORMFILTER 330 TYPICAL INLET CONNECTION CROSS SECTION



CULTEC STORMFILTER 330 EXAMPLE LAYOUT



CULTEC STORMFILTER 330 INSTALLATION CROSS SECTION

CULTEC STORMFILTER 330 OVERFLOW/BYPASS PLAN VIEW

CULTEC, Inc.
Subsurface Stormwater Management Systems

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tech@cultec.com

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**STORMFILTER 330
NON-TRAFFIC APPLICATION
DETAIL SHEET**

CULTEC STORMFILTER® 330	
PROJECT NO: -	DATE: 09/2015
DESIGNED BY: CULTEC, INC	DRAWN BY: TECH
SCALE: N.T.S.	SHEET NO: 2 OF 2