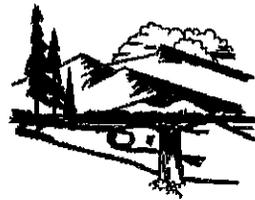




Department of Environmental Quality



To protect, conserve and enhance the quality of Wyoming's environment for the benefit of current and future generations.

Matt Mead, Governor

Todd Parfitt, Director

May 4, 2015

Shane Conley
Cretex Concrete Products
725 Bryan Stock Trail
Casper, WY 82601

RE: APPROVAL of Cretex's 1500-Gallon, Single-Compartment, Concrete Septic Tank for use in Wyoming.

Dear Mr. Conley:

The Water Quality Division (WQD) of the Wyoming Department of Environmental Quality (DEQ) has received the drawings and specifications for above referenced septic tank. The WQD evaluated this septic tank and determined that it basically meets the minimum requirements as identified in Chapter 25, Section 8 of the Wyoming Water Quality Rules and Regulations.

However, the inlet and outlet tees are not provided with this septic tank. DEQ's approval of this septic tank is contingent upon the proper installation of the inlet and outlet tees. **The septic tank inlet shall be provided with a tee. The outlet shall be provided with a tee that extends down at least 18 inches below the liquid surface level (i.e., outlet invert level) of the tank.**

This product will be placed on our list of approved septic tanks for use in Wyoming. The table below summarizes the dimensions and for Cretex's 1500-gallon, concrete septic tank.

Outside Dimensions (L x W x H)	128" x 68" x 86"
Maximum Cover Burial Depth	4 feet
Access Openings	Two 20-inch squares
Inlet / Outlet Height Difference	3 inches
Liquid Level (LL) Depth	58 inches
Clearances for scum and venting	14 inches total

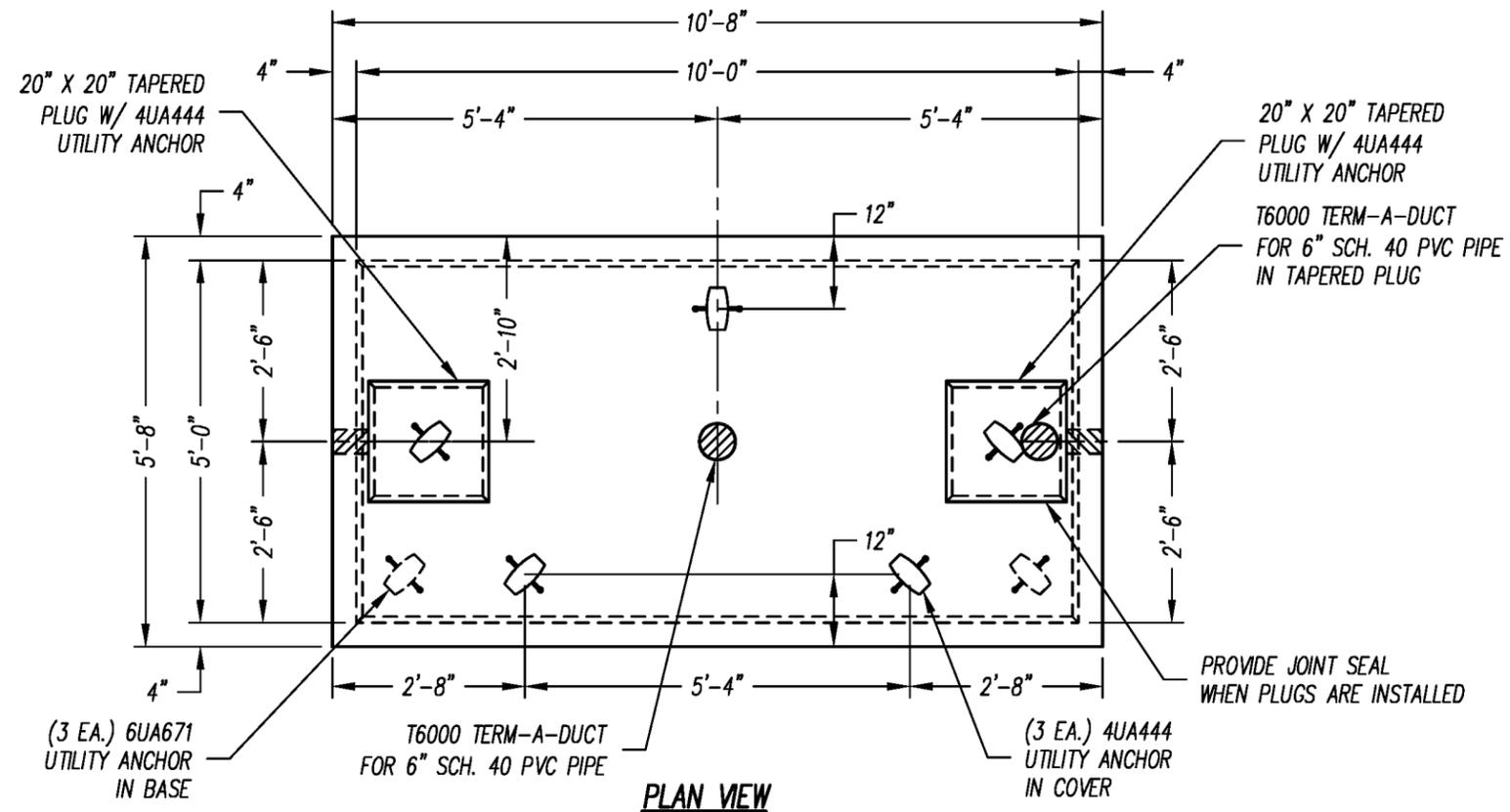
Sincerely;

James Brough, P.E.
Northwest District Engineer
Water Quality Division

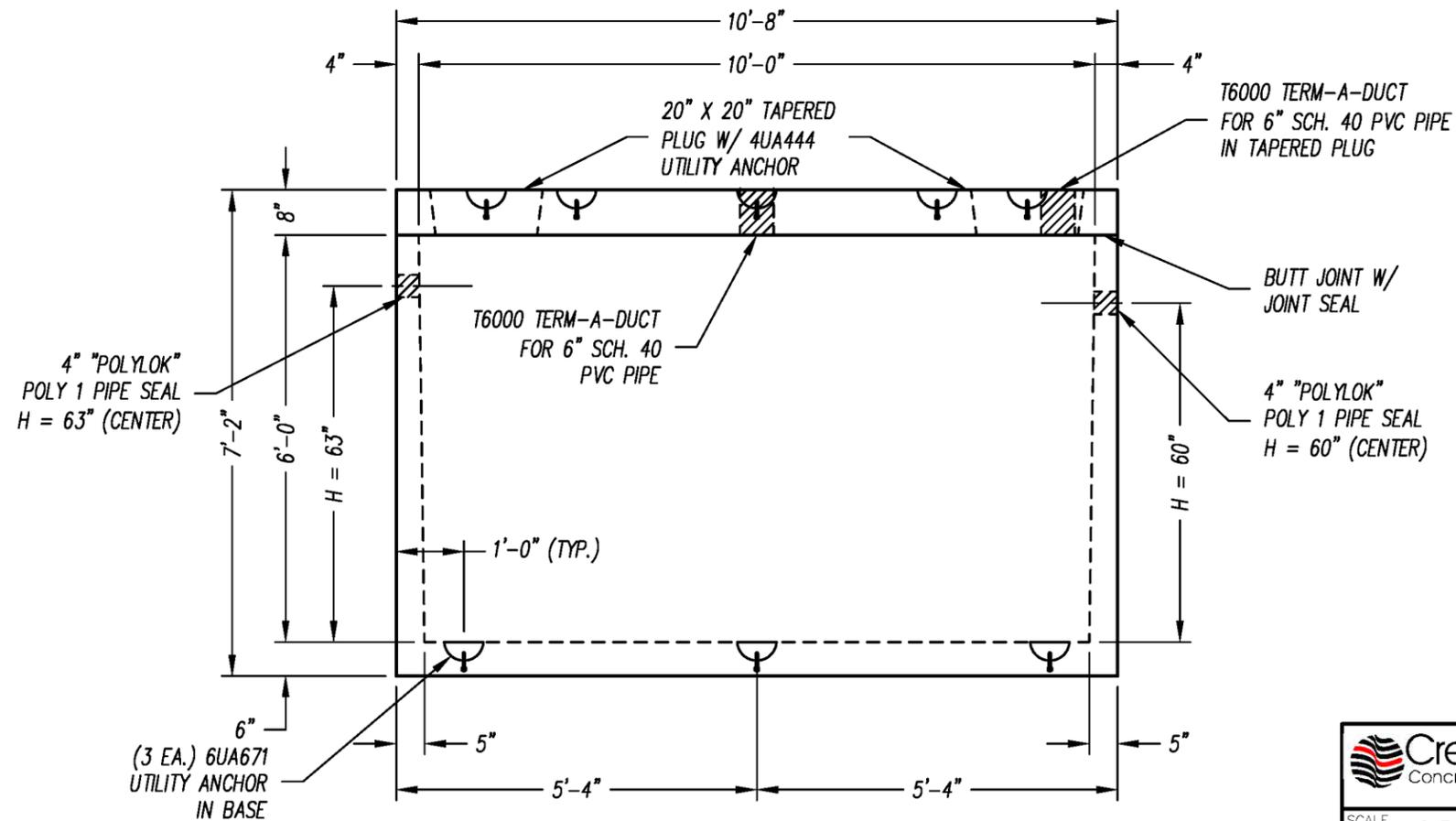
Cc: DEQ Water & Wastewater Section (PDF)

Encl: Submitted Septic Tank Drawings





PLAN VIEW



ELEVATION VIEW

MATERIAL LIST	
ITEM	QTY.
T6000 TERM-A-DUCT	2
4" POLYLOK POLY 1	2
JOINT SEALANT (1" X 14.5')	4

SEE SHEET "1500 SEPTIC TANK CVR" FOR COVER REINFORCING AND TAPERED PLUG DETAILS

COVER WEIGHT = 6,050 LBS

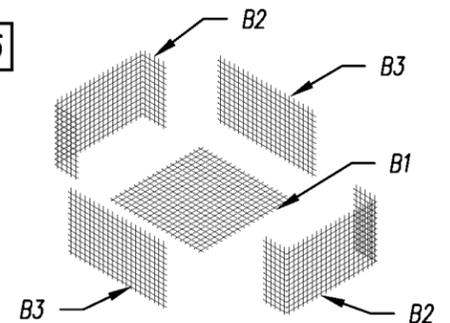
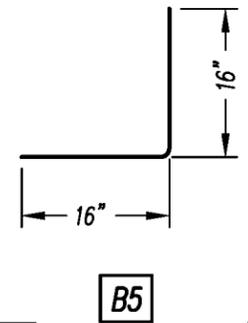
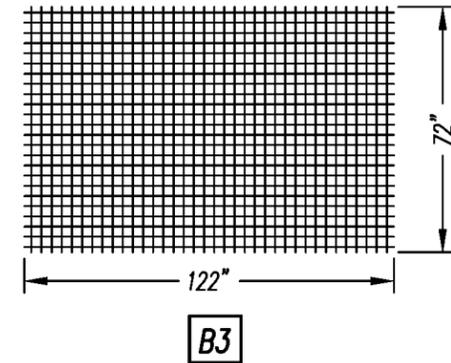
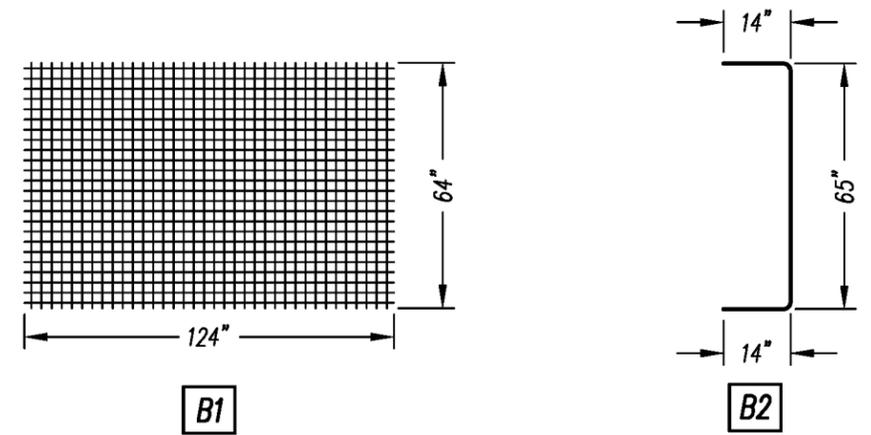
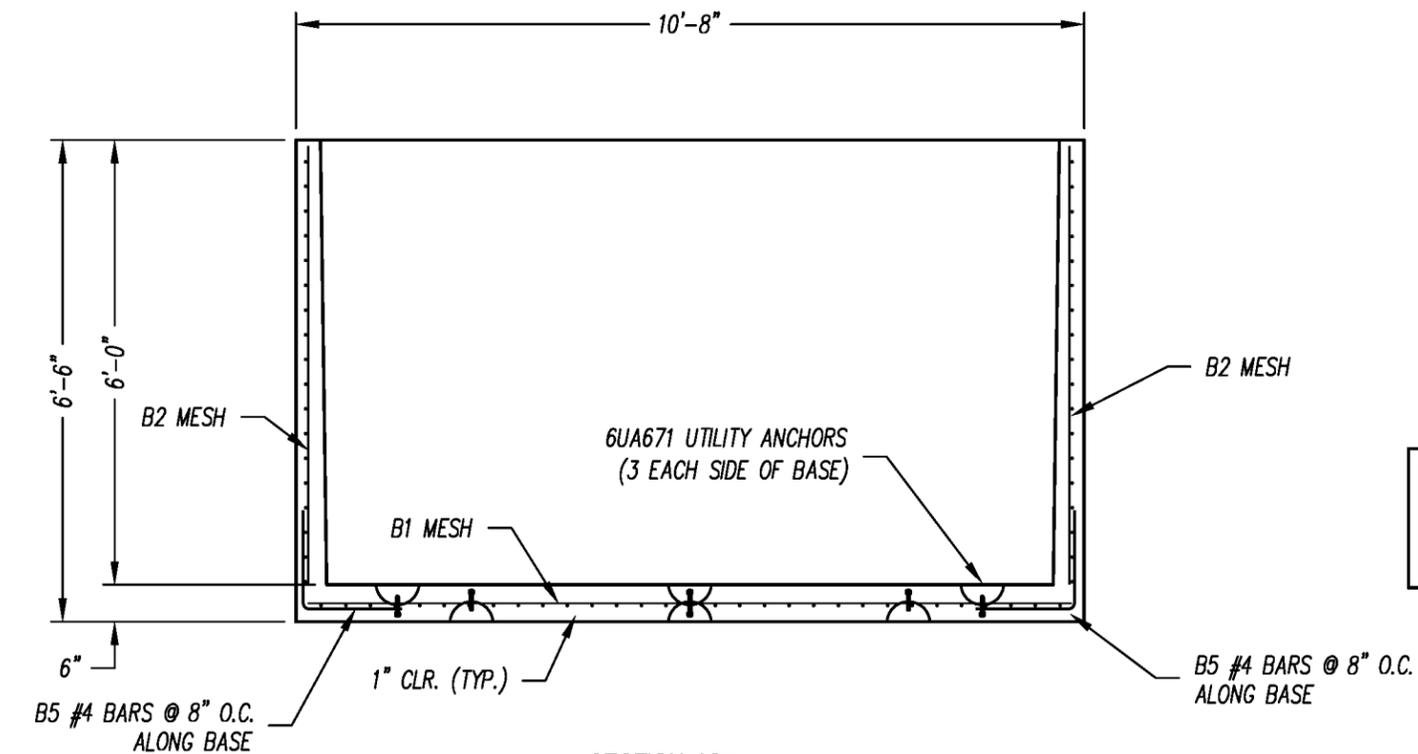
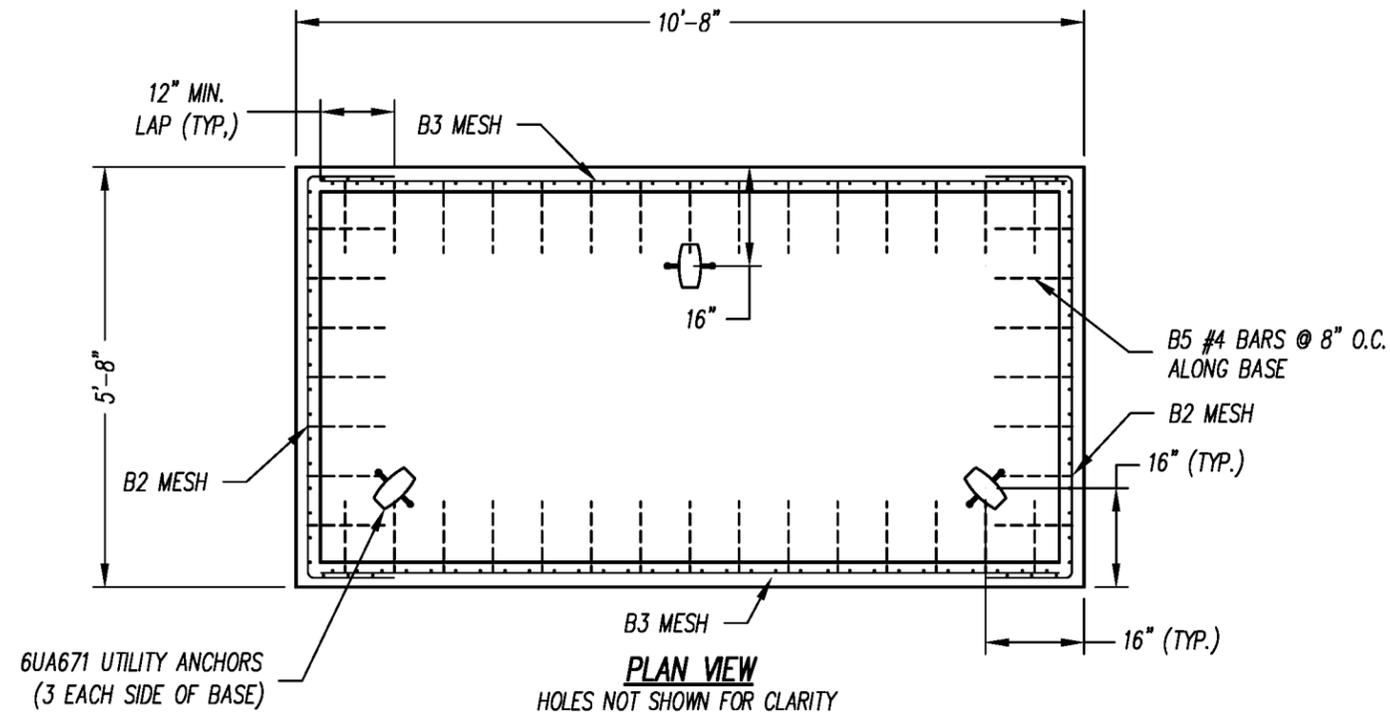
TANK WEIGHT = 15,200 LBS

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NOTES:

- REINFORCING TO BE ASTM A-615 GRADE 60, $F_y = 60,000$ PSI (BAR)
 $F_y = 65,000$ PSI (MESH) UNLESS NOTED OTHERWISE.
- CONCRETE COMPRESSIVE STRENGTH = 4,500 PSI (28 DAY)

		OFFICES IN: BISMARCK HELENA RAPID CITY	
SCALE	NONE	TITLE	
DATE	1/20/12	1500 GAL SEPTIC TANK	
DR'N BY	TDE		
REV DATE	-	DWG NAME	1500 SEPTIC TANK



VAULT IS DESIGNED FOR MAX. 3' OF FILL AND HS-20 LOADING

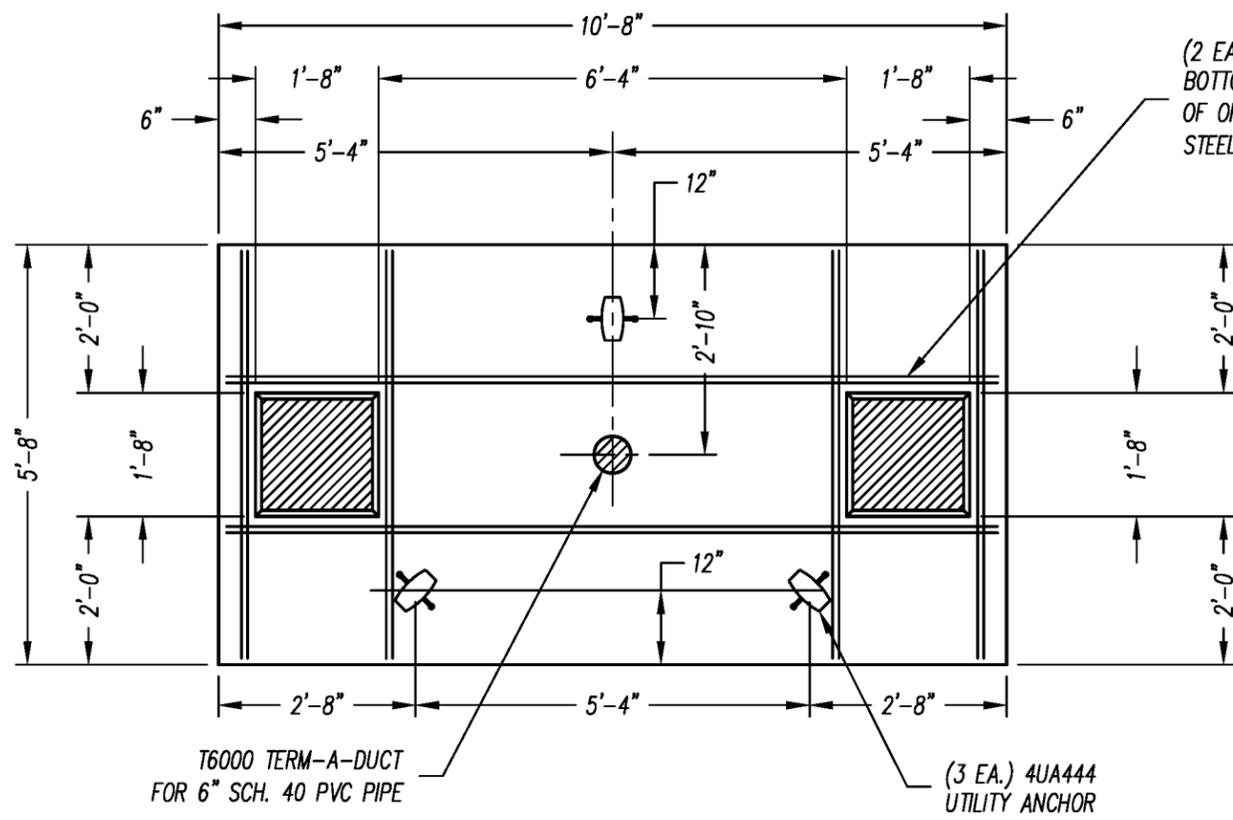
REINFORCING SCHEDULE						
MARK	QTY.	MESH/BAR SIZE	LENGTH	WIDTH	WEIGHT	REMARKS
B1	1	4X4 D9.5 / D9.5	10'-4"	5'-4"	107 LBS	STRAIGHT
B2	2	4X4 D9.5 / D9.5	7'-9"	6'-0"	181 LBS	BENT
B3	2	4X4 D9.5 / D9.5	10'-2"	6'-0"	237 LBS	STRAIGHT
B5	44	#4	2'-8"	-	78 LBS	BENT

REINFORCING WEIGHT = 603 LBS
TOTAL VAULT WEIGHT = 15,110 LBS

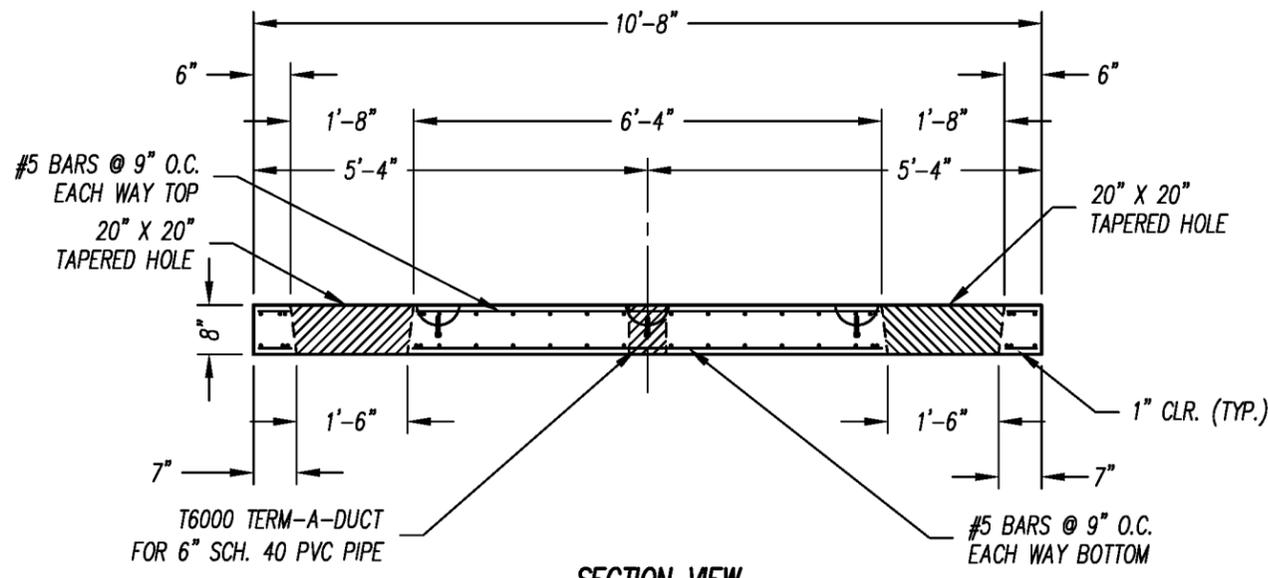
- NOTES:
- REINFORCING TO BE ASTM A-615 GRADE 60, $F_y = 60,000$ PSI (BAR)
 $F_y = 65,000$ PSI (MESH) UNLESS NOTED OTHERWISE.
 - CONCRETE COMPRESSIVE STRENGTH = 4,500 PSI (28 DAY)

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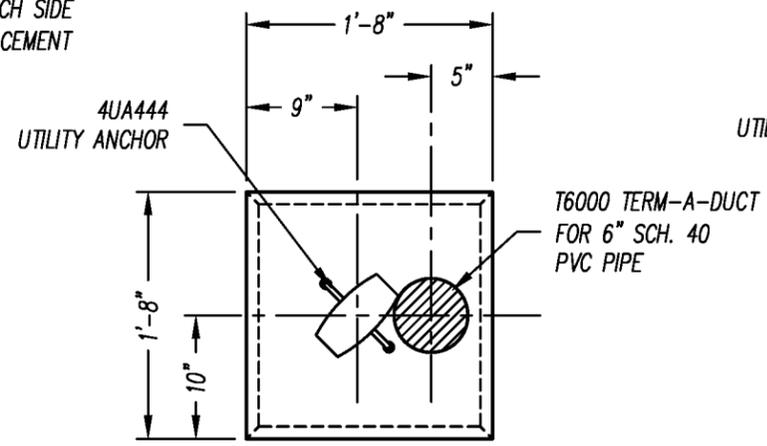
	OFFICES IN:	
	BISMARCK	HELENA RAPID CITY
SCALE: NONE	TITLE: 1500 GAL SEPTIC TANK REINFORCING DETAILS	
DATE: 1/20/12	DR'N BY: TDE	
REV DATE: -	DWG NAME: 1500 SEPTIC TANK MESH	



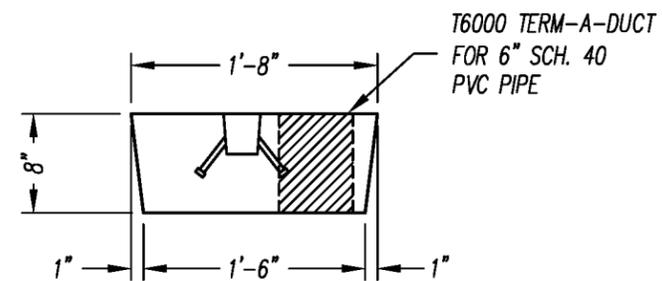
PLAN VIEW



SECTION VIEW

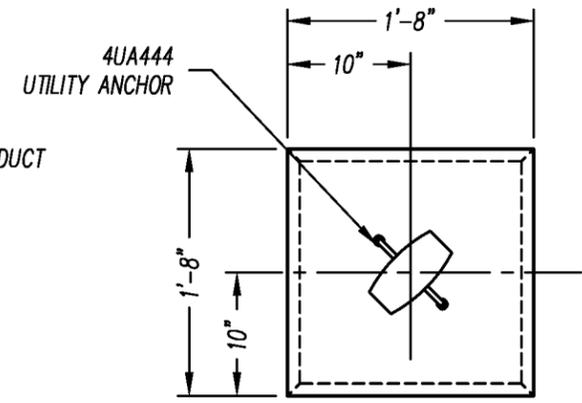


PLAN VIEW

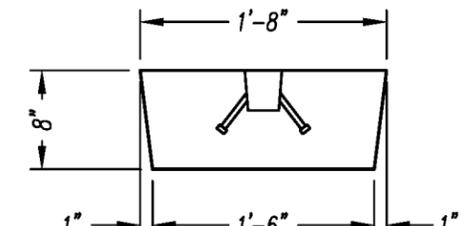


ELEVATION VIEW

TAPERED PLUG W/ TERM-A-DUCT
1 REQUIRED



PLAN VIEW



ELEVATION VIEW

TAPERED PLUG
1 REQUIRED

MATERIAL LIST	
ITEM	QTY.
T6000 TERM-A-DUCT	2

COVER IS DESIGNED FOR MAX. 3' OF FILL AND HS-20 LOADING

PLUG WEIGHT = 270 LBS
COVER WEIGHT = 6,050 LBS

MESH OPTION:
6 X 6 D20.0/D20.0 MESH TOP & BOTTOM W/ SAME #5 REPLACEMENT BARS AS SHOWN AT OPENINGS. MAT DIMENSIONS 10'-4" X 5'-4" (MIN. 8" OVERLAP IF SPLICED)

- NOTES:**
- REINFORCING TO BE ASTM A-615 GRADE 60, $F_y = 60,000$ PSI (BAR)
 $F_y = 65,000$ PSI (MESH) UNLESS NOTED OTHERWISE.
 - CONCRETE COMPRESSIVE STRENGTH = 4,500 PSI (28 DAY)

		OFFICES IN: BISMARCK HELENA RAPID CITY	
SCALE	NONE	TITLE	1500 GAL SEPTIC TANK COVER REINFORCING AND DETAILS
DATE	1/20/12	DR'N BY	
REV DATE	-	DWG NAME	
		1500 SEPTIC TANK CVR	

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