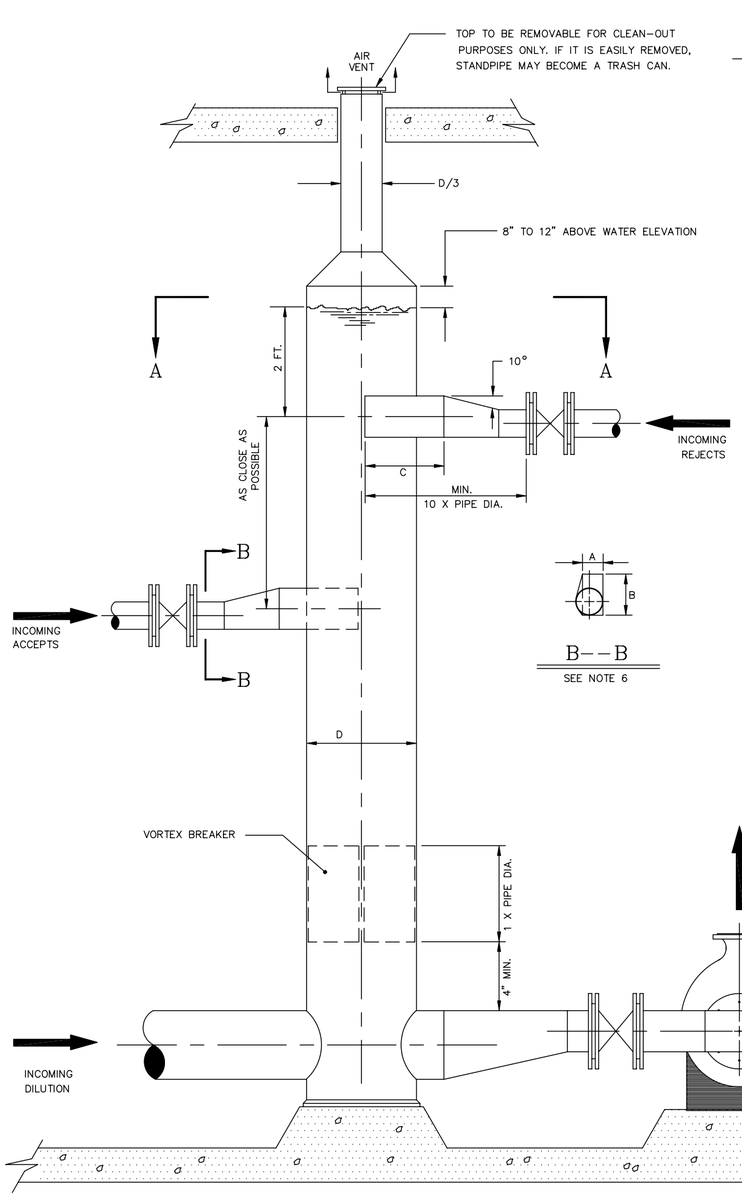
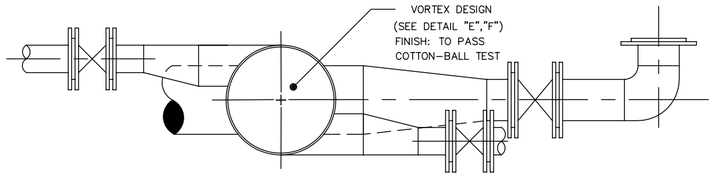
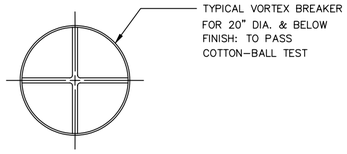
REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED

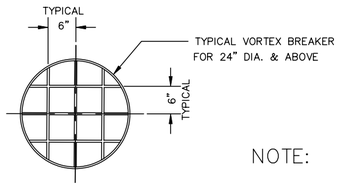




A––A



DETAIL "F"



DETAIL "E"

B––B

SEE NOTE 6

NOTE:

1.) 1/2 FT. PER SECOND DOWN VELOCITY "V" FOR SIZING STANDPIPE DIAMETER.

2.) 5 FT. PER SECOND VELOCITY "V" FOR SIZING PUMP SUCTION.

3.) ALL INCOMING REJECT LINES ARE TO ENTER BELOW WHITE WATER LEVEL, WITH TANGENTIAL ENTRIES TO CREATE A VORTEX. THIS VORTEX WILL AID IN REMOVING AIR.

4.) NEVER LOCATE VALVES RIGHT NEXT TO ENTRIES.

5.) IF UNABLE TO COMPLY WITH DESIGN CRITERIA, YOUR DESIGN MUST BE APPROVED BY GL&V CELLECO.

6.) THE LONG AXIS OF THE RECTANGLE A–B SHOULD BE VERTICAL. IF A IS GREATER THAN B, ROTATE THE RECTANGLE 90 DEGREES.

DIMENSIONAL DATA

A (INCH) = (.25) (D)

$$B\ (\text{INCH}) = \frac{(\text{GPM})\ (144\ \frac{\text{IN.}^2}{\text{FT.}^2})}{(7.48\ \frac{\text{GPM}}{\text{FT.}^3})\ (60\ \frac{\text{SEC.}}{\text{MIN.}})\ (5\ \frac{\text{FT.}}{\text{SEC.}})\ (\text{A INCH})}$$

C (INCH) = (1) (D)

$$D\ (\text{INCH}) = \sqrt{\frac{\text{GPMT}\ (144\ \frac{\text{IN.}^2}{\text{FT.}^2})\ (4)}{(7.48\ \frac{\text{GPM}}{\text{FT.}^3})\ (60\ \frac{\text{SEC.}}{\text{MIN.}})\ (1/2\ \frac{\text{FT.}}{\text{SEC.}})\ (\pi)}}$$

LEGEND

GPM= MAX. FLOW IN PIPE
V= DESIGN VELOCITY (FT./SEC.)
D= STANDPIPE MINIMUM INSIDE DIA. (INCHES)
GPMT= SUM OF FLOWS INTO STANDPIPE ABOVE THE VORTEX BREAKER

RECOMMENDED DESIGN DRAWING

THIS DRAWING DESCRIBES GL&V USA INC. RECOMMENDED DESIGN FOR OPTIMAL SYSTEM PERFORMANCE. THIS DRAWING SHOULD BE USED AS A GUIDELINE WHEN DEFINING THE INSTALLATION OF A NEW SYSTEM. GL&V WILL GLADLY REVIEW AND PROVIDE INPUT ON CUSTOMER'S DETAILED INSTALLATION DRAWINGS; HOWEVER, THIS DRAWING WILL NOT BE MODIFIED TO REFLECT ACTUAL PIPING/STANDPIPE DESIGN.

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES

WARNING:
THE EXPORT OR REEXPORT OF THIS DRAWING OR A PRODUCT PRODUCED BY THIS DRAWING IS SUBJECT TO U.S. EXPORT ADMINISTRATION REGULATIONS AND OTHER APPLICABLE GOVERNMENTAL RESTRICTIONS OR REGULATIONS.

ANSI Y14.5 SYMBOLS	
SYM	GEOMETRY
⌖	TRUE POSITION
▱	FLATNESS
⊥	PERPENDICULARITY
//	PARALLELISM
∠	ANGULARITY
↗	RUNOUT
⌓	PROFILE OF A SURFACE
○	ROUNDNESS
—	STRAIGHTNESS
◎	CONCENTRICITY
Ⓜ	MAX MATL CONDITION
⌭	CYLINDRICITY

UNLESS OTHERWISE SPECIFIED, THE FOLLOWING STDS. APPLY: DIM & TOL– ANSI Y14.5. SURFACE FINISHES–ISO 1302 ALL DIM. APPLY TO FINISHED PART

REMOVE ALL BURRS AND SHARP CORNERS AND COUNTERSINK ALL TAPPED HOLES TO MAJOR DIAMETER

X.XX	BASIC DIM NO TOL	( ) – REF
∅	– DIAMETER	R – RADIUS

SPECS

TYPE	NO.	TYPE	NO.
TOL	E–2167		
WELD	E–3090		
THRD	E–825		

NEXT ASSY.

REF.DWG.

DRAWN AFB DATE 10/23/06

CHECKED DATE

APPROVED DATE

GL&V NASHUA N.H.

TITLE

STANDPIPE DETAIL

SIZE C | THIRD ANGLE PROJECTION | DRAWING NO. 000107N70 | REV

SCALE NONE | | SHEET 1 OF 1

AutoCAD