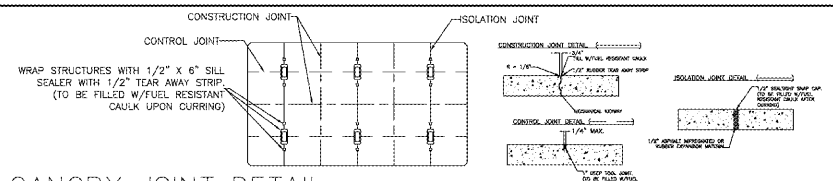
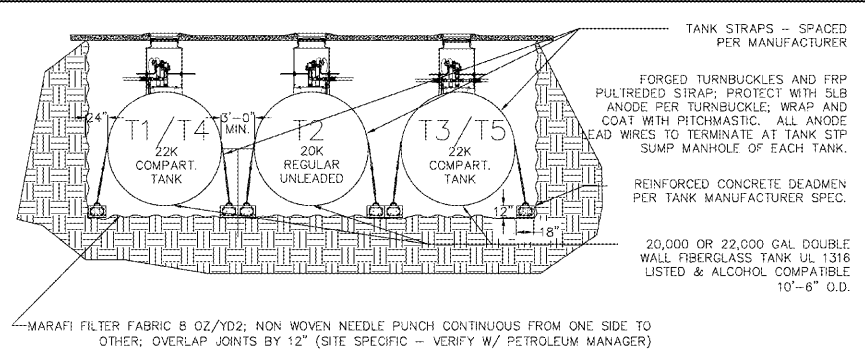


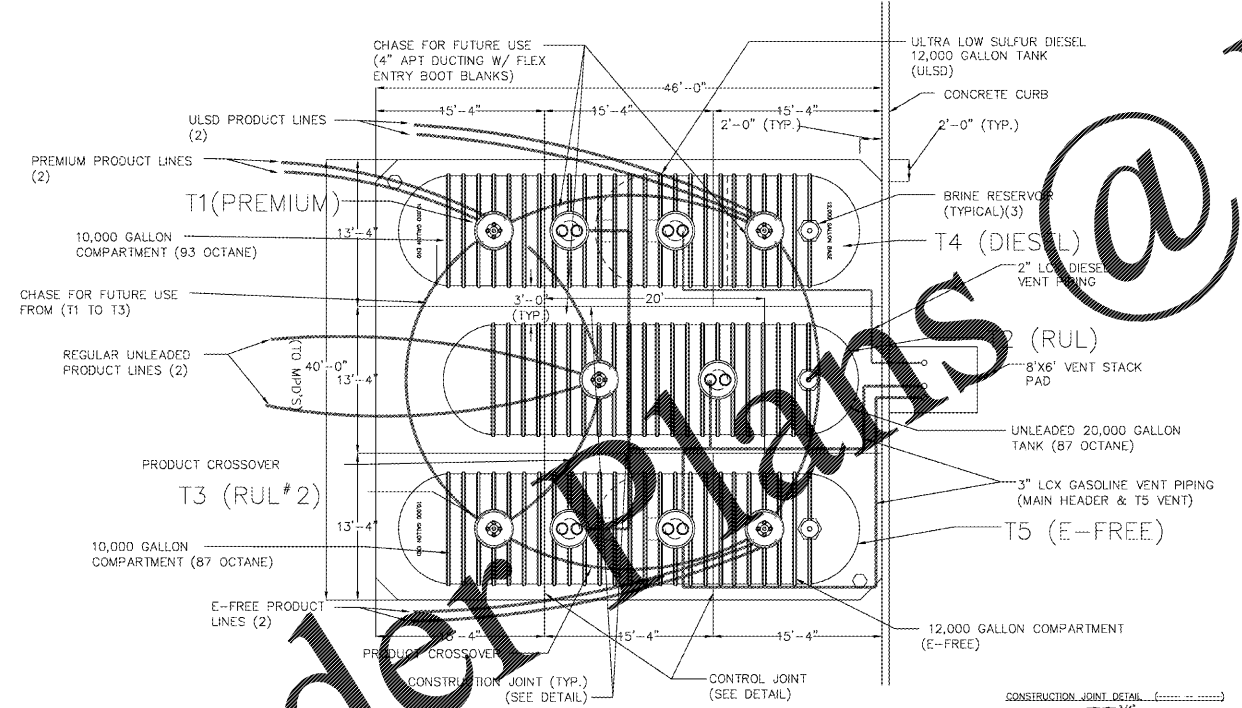
**D** TANKFIELD REINFORCING DETAIL  
G-1 SCALE: 1/4" = 1'-0"



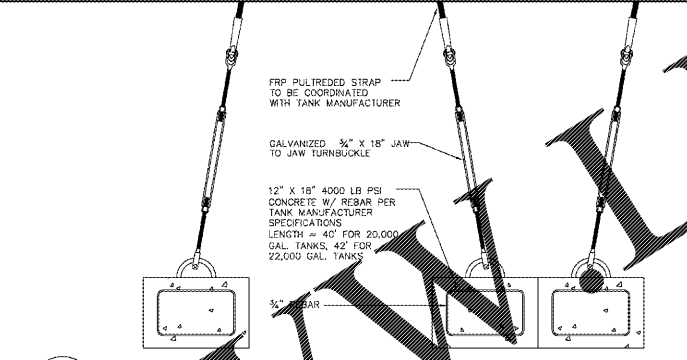
**C** TYPICAL CANOPY JOINT DETAIL  
G-1 SCALE: NTS



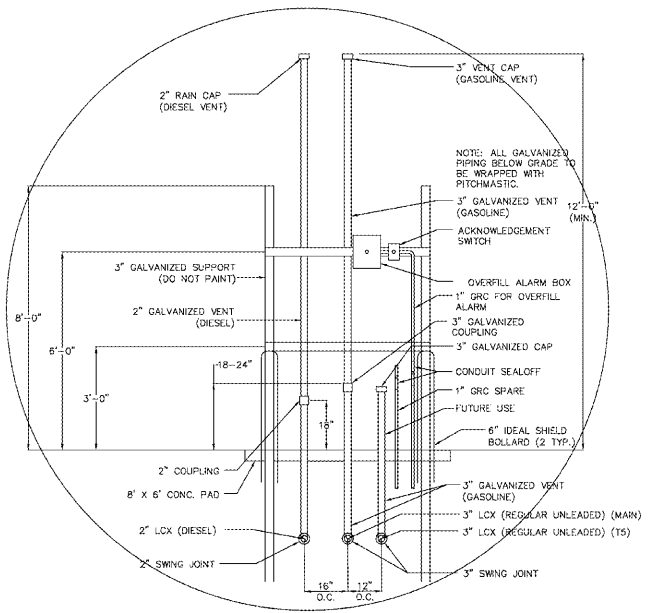
**B** TANK BURIAL  
G-1 SCALE: 1/8" = 1'-0"



**A** TANK FIELD LAYOUT  
G-1 SCALE: 1/8" = 1'-0"



**E** TANK HOOD DOWN DETAIL  
G-1 SCALE: 1" = 1'-0"



**F** VENT STACK  
G-1 SCALE: 3/8" = 1'-0"

XERXES <sup>®</sup> DEADMAN BURIAL WATER AT GRADE		Wawa	
TANK DATA		INSTALLATION	
NOM. CAP. (GAL.)	22000 (12k x 10k)	TOTAL COVER INCLUDING SOIL & TOP SLAB (FT)	4.50
TYPE (SINGLEWALL-LDW-3)	3	TOP SLAB THICKNESS (IN)	8.00
DRY-1; WET-2	2	TOP SLAB LENGTH (FT)	46.00
NOM. TANK DIA. (FT.)	10	TOP SLAB WIDTH (FT)	13.33
PROD. STORED (GAL.)	0	DEADMAN LNG (FT)	42.00
SPEC. GRAV. USED	1.00	DEADMAN WID (IN)	18.00
BRINE FILL (GAL.)	224	DEADMAN THK (IN)	12.00
SAFETY FACTOR		# OF 42" DIAMETER SUMPS	
DOWN FORCE/UP FORCE =		1.47 : 1	
<b>TOTAL WEIGHTS</b>			
DOWN FORCES		TOTAL UP FORCE =	
CONCRETE WEIGHT	47070.22 LBS.	295607 LBS.	
BACKFILL WEIGHT	237121.83 LBS.		
TANK WEIGHT	11500.00 LBS.		
PRODUCT WEIGHT	0.00 LBS.		
TOTAL DOWN FORCE =		295607 LBS.	
<b>UP FORCES</b>			
TANK DISP. FORCE	200517.43 LBS.	TOTAL UP FORCE =	
		200517.43 LBS.	
<b>WORKSHEET</b>			
TANK DATA		ACTUAL CAP (GAL)	
SHELL DIAMETER	10.00 FT.	22176.00	
SHELL LENGTH	33.90 FT.	TANK WT. (LBS.)	
DOME PROJECTION	5.00 FT.	11500.00	
MID POINT HEIGHT	8.83 FT.	C.A.L. (FT.)	
COLUMN HEIGHT	13.83 FT.	41.00	
RIB VOLUME	217.00 CU. IN.	NUMBER OF RIBS	
		25.00	
		DOME A. (SQ FT)	
		78.54	
		DOME VOL. (CU FT)	
		523.60	
<b>REINFORCED CONCRETE VOLUMES (CU. FT.)</b>			
TOP SLAB	408.89	DEADMEN	120.00
FORCE = VOL. X 88 LBS/CF	35982.22	FORCE (LBS) = VOL. X 88 LBS/CF	11088.00
<b>TOP SLAB &amp; DEADMEN FORCE</b> 47070.22 LBS.			
<b>BACKFILL VOLUMES (CU. FT.)</b>			
OVER TANK SHELL	1417.39	OVER DEADMEN	1943.00
OVER TANK DOME	431.97	END WEDGE	359.67
TOTAL WET VOLUME	3052.32	FORCE = VOL. X 60 LBS/CF	
		237121.83 LBS.	
<b>BUOYANCY</b>			
SHELL VOLUME	2652.62 CU. FT.		
DOME VOLUME	523.60 CU. FT.		
RIB VOLUME	217.00 CU. FT.		
TOTAL VOLUME	3242.86 CU. FT.		
VOL. X 7.48 GAL./CU. FT.	24042.86 GALLONS		
FORCE = GAL. X 8.34 (LBS./GAL.)		209517.43 LBS.	

XERXES <sup>®</sup> DEADMAN BURIAL WATER AT GRADE		WAWA	
TANK DATA		INSTALLATION	
NOM. CAP. (GAL.)	20000	TOTAL COVER INCLUDING SOIL & TOP SLAB (FT)	4.50
TYPE (SINGLEWALL-LDW-3)	3	TOP SLAB THICKNESS (IN)	8.00
DRY-1; WET-2	2	TOP SLAB LENGTH (FT)	40.00
NOM. TANK DIA. (FT.)	10	TOP SLAB WIDTH (FT)	13.00
PROD. STORED (GAL.)	0	DEADMAN LNG (FT)	40.00
SPEC. GRAV. USED	1.00	DEADMAN WID (IN)	18.00
BRINE FILL (GAL.)	193	DEADMAN THK (IN)	12.00
SAFETY FACTOR		# OF 42" DIAMETER SUMPS	
DOWN FORCE/UP FORCE =		1.57 : 1	
<b>TOTAL WEIGHTS</b>			
DOWN FORCES		TOTAL UP FORCE =	
CONCRETE WEIGHT	41066.67 LBS.	274268.36 LBS.	
BACKFILL WEIGHT	224301.69 LBS.		
TANK WEIGHT	8906.00 LBS.		
PRODUCT WEIGHT	0.00 LBS.		
TOTAL DOWN FORCE =		274268.36 LBS.	
<b>UP FORCES</b>			
TANK DISP. FORCE	175216.07 LBS.	TOTAL UP FORCE =	
		175216.07 LBS.	
<b>WORKSHEET</b>			
TANK DATA		ACTUAL CAP (GAL)	
SHELL DIAMETER	10.00 FT.	19782.00	
SHELL LENGTH	27.75 FT.	TANK WT. (LBS.)	
DOME PROJECTION	5.00 FT.	8906.00	
MID POINT HEIGHT	8.83 FT.	C.A.L. (FT.)	
COLUMN HEIGHT	13.83 FT.	37.00	
RIB VOLUME	2031.00 CU. IN.	NUMBER OF RIBS	
		22.00	
		DOME A. (SQ FT)	
		78.54	
		DOME VOL. (CU FT)	
		523.60	
<b>REINFORCED CONCRETE VOLUMES (CU. FT.)</b>			
TOP SLAB	346.67	DEADMEN	120.00
FORCE = VOL. X 88 LBS/CF	30506.72	FORCE (LBS) = VOL. X 88 LBS/CF	10560.00
<b>TOP SLAB &amp; DEADMEN FORCE</b> 41066.67 LBS.			
<b>BACKFILL VOLUMES (CU. FT.)</b>			
OVER TANK SHELL	1286.73	OVER DEADMEN	1660.00
OVER TANK DOME	431.97	END WEDGE	359.67
TOTAL WET VOLUME	3738.36	FORCE = VOL. X 60 LBS/CF	
		224591.69 LBS.	
<b>BUOYANCY</b>			
SHELL VOLUME	2251.61 CU. FT.		
DOME VOLUME	523.60 CU. FT.		
RIB VOLUME	33.50 CU. FT.		
TOTAL VOLUME	2808.71 CU. FT.		
VOL. X 7.48 GAL./CU. FT.	21009.12 GALLONS		
FORCE = GAL. X 8.34 (LBS./GAL.)		175216.07 LBS.	

**G** BUOYANCY CALCULATIONS  
G-1 SCALE: N.T.S.

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