

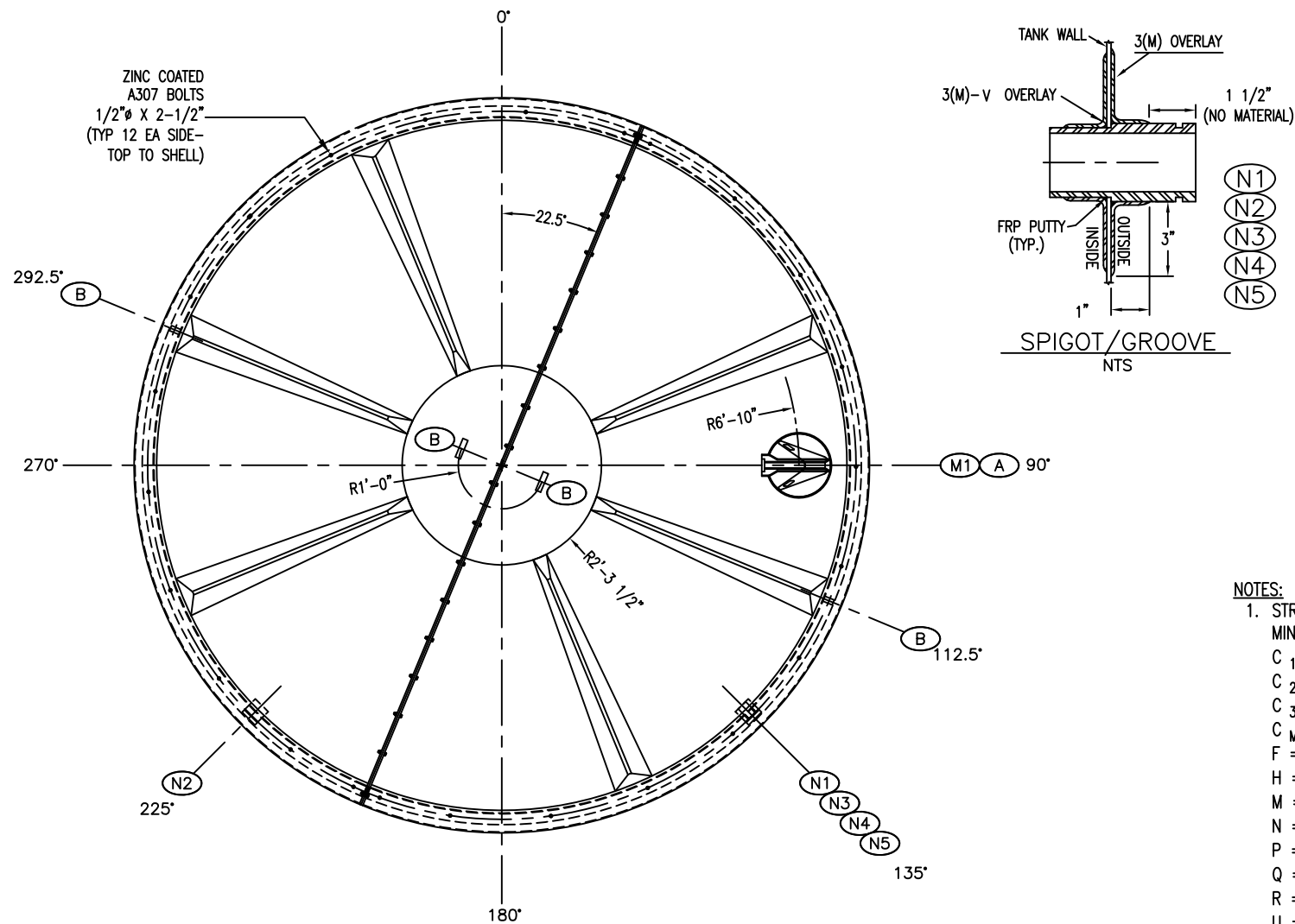


**Vertical Salt Water Disposal FRP Tank**

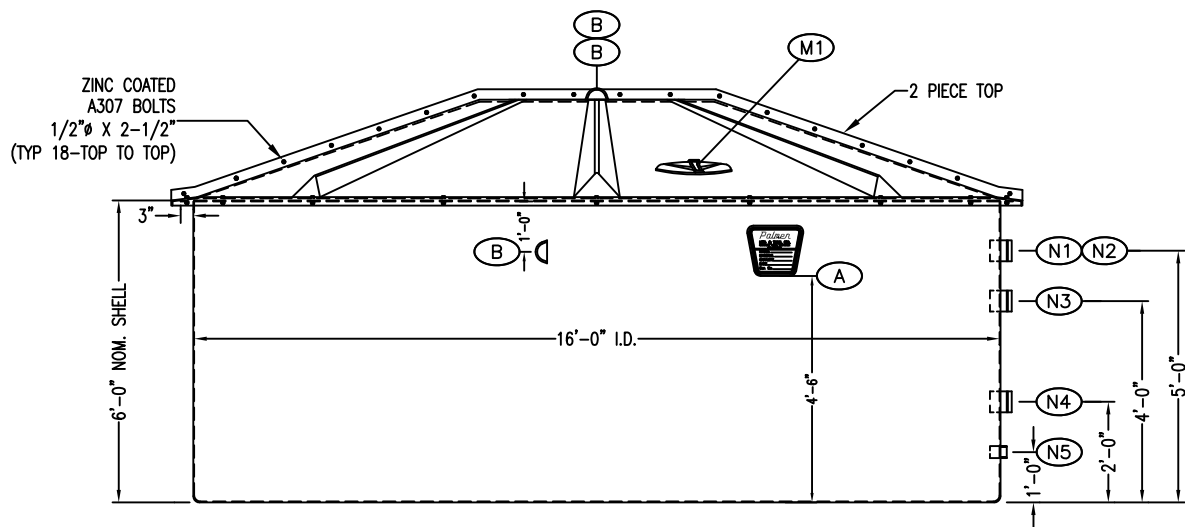
Storage Capacity 210 BBL (8,800 Gallons)

Tank Size 16' Diameter x 6' Straight Shell

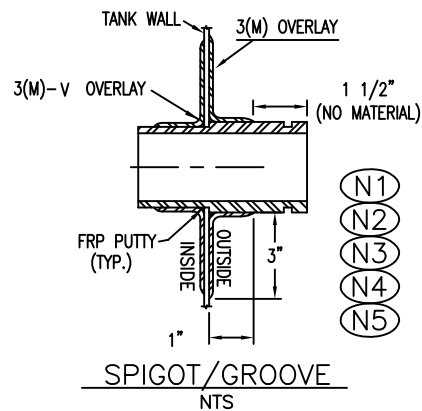
Contact our Sales Department for Pricing



PLAN VIEW  
(TRUE ORIENTATION)



ELEVATION VIEW  
(NOT TRUE ORIENTATION)



- (N1)
- (N2)
- (N3)
- (N4)
- (N5)

BILL OF MATERIALS

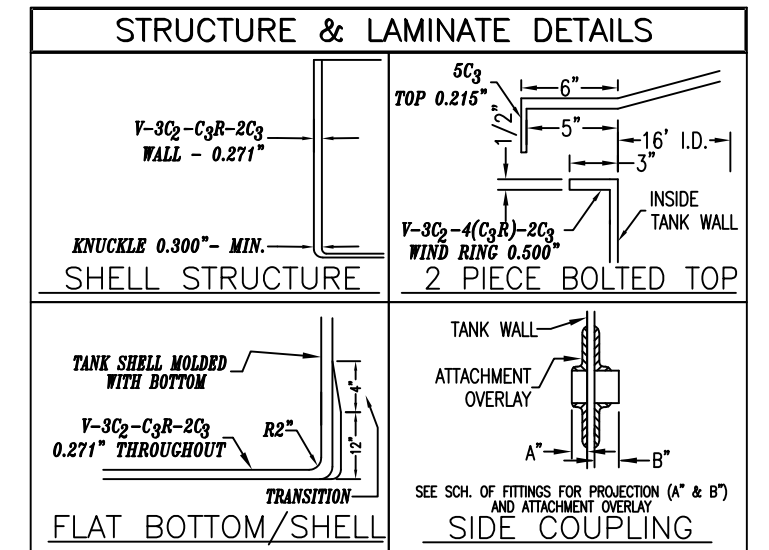
QUAL. CHK.	SYM.	PALMER INVENTORY	QTY.	DESCRIPTION	NOTES/MODEL NO.	ATTACHMENT OVERLAY		MATERIAL
						OUTSIDE	INSIDE	
			1	FLAT BOTTOM: 16' I.D.				ORTHO
			1	2 PIECE CONE TOP: 16'-10" I.D.				ORTHO
			1	SHELL: 16' I.D.				ORTHO
A		338256	1	PALMERS LARGE WRITE-ON DECAL			M	VINYL
B		338449	4	PALMER #1 LIFT LUG			F-M	CARBON STEEL
		342359	18	1/2" X 2-1/2" ZINC COATED BOLT	(BOLT 2 TOP PIECES)			A307
		342359	24	1/2" X 2-1/2" ZINC COATED BOLT	(BOLT TOP TO SHELL)			A307
		338105	42	1/2" ZINC COATED NUT				A307
		338399	84	1/2" ZINC COATED FLAT WASHER				A307

QUAL. CHK.	SYM.	PALMER INVENTORY	QTY.	SCHEDULE OF FITTINGS	SERVICE	PROJECTION		ATTACHMENT OVERLAY			MATERIAL
						OUTSIDE-B	INSIDE-A	OUTSIDE	INSIDE	REPAD	
M1		338779	1	18" PLASTIC MANWAY	ACCESS	N/A		RIVETED			POLYETHYLENE
N1		339300	1	4" SPIGOT x GROOVE	HI-LEVEL FLOAT	2 1/2"	A/R	1MR-2M	3M-V		VINYL ESTER
N2		339300	1	4" SPIGOT x GROOVE	HI-LEVEL FLOAT	2 1/2"	A/R	1MR-2M	3M-V		VINYL ESTER
N3		339300	1	4" SPIGOT x GROOVE	PUMP ON FLOAT	2 1/2"	A/R	1MR-2M	3M-V		VINYL ESTER
N4		339300	1	4" SPIGOT x GROOVE	PUMP OFF FLOAT	2 1/2"	A/R	1MR-2M	3M-V		VINYL ESTER
N5		338451	1	2" SPIGOT x FEMALE	PUMP SUCTION	1 1/2"	A/R	3M	3M-V		VINYL ESTER

QUAL. CHK.	SYM.	PALMER INVENTORY	QTY.	ITEMS TO SHIP LOOSE	NOTES/MODEL NO.	MATERIAL

NOTES:

- STRUCTURAL LAYER ANALYSIS:  
 MINIMUM KNUCKLE RADIUS = 2"  
 C<sub>1</sub> = CHOP 27% E GLASS REINFORCEMENT 0.010"  
 C<sub>2</sub> = CHOP 27% E GLASS REINFORCEMENT 0.033"  
 C<sub>3</sub> = CHOP 27% E GLASS REINFORCEMENT 0.043"  
 C<sub>M</sub> = COREMAT 0.157"  
 F = FABMAT (1.5oz MAT & 24oz ROVING) 0.076"  
 H = HOOP WOUND 50% E GLASS REINFORCEMENT 0.023"  
 M = 1.5oz RANDOM STRAND MAT 0.043"  
 N = NEXUS VEIL 0.010"  
 P = 3D FABRIC 0.1875"  
 Q = INTERSTITIAL HONEYCOMB 0.750"  
 R = 24oz WOVEN ROVING 0.033"  
 U = UNIGLASS 0.023"  
 V<sub>C</sub> = CARBON-VEIL 0.010"  
 V = C-VEIL 0.010"
- NOZZLE FLANGES TO BE FF (FLAT FACED ONE PIECE CONSTRUCTION) W/50# RATING & 150# DRILLING PER ANSI B16.5 CLASS 150.
- FLANGES INSTALLED IN THE SHELL WILL BE INSTALLED WITH BOLT HOLES STRADDLING THE TANKS VERTICAL OR HORIZONTAL C. FLANGES INSTALLED IN THE HEADS WILL BE INSTALLED WITH BOLT HOLES STRADDLING THE 0°-180° & 90°-270° C'S.
- THE TANK IS TO BE POSITIVELY VENTED TO THE ATMOSPHERE AT ALL TIMES. IT IS THE RESPONSIBILITY OF THE CUSTOMER TO DETERMINE THE PROPER SIZE OF VENT TO PREVENT THE TANK FROM BEING OVER PRESSURIZED DURING FILLING & TO PREVENT THE TANK FROM COLLAPSING DURING REMOVAL OF THE PRODUCT. THE OVERFLOW FITTING IS NOT AN ACCEPTABLE VENTING METHOD. UNDER NO CIRCUMSTANCES SHALL THE FACTORY SIZED VENT BE REDUCED. --- **OTHERWISE - WARRANTY IS NULL & VOID.**
- TANK EXTERIOR TO BE PIGMENTED: MOBIL BIEGE
- TANK TO BE HYDROSTATIC TESTED BY FILLING WITH WATER FOR 2 HOURS.
- ALL DIMENSIONS SHOWN AS NOMINAL (NOM.) ARE ±1/2".
- PURCHASER ASSUMES RESPONSIBILITY FOR DETERMINING COMPATIBILITY OF PRODUCT TO BE STORED IN THE TANK. PALMER'S WARRANTIES FOR ONLY THE PRODUCT LISTED ON NAMEPLATE.**
- TANK CONTAINS 1%-3% RENFIL (NOT USED AS A FILLER) TO RESIN RATIO BY WEIGHT TO REDUCE STYRENE EMISSIONS.
- BOLTING HARDWARE IS SAE J429/J995 GRADE 5 BOLTS/NUTS.



APPROVED FOR PRODUCTION: \_\_\_\_\_  
 DATE: \_\_\_\_\_

DESIGN CONDITIONS	MATERIAL CONSTRUCTION
PRESSURE: ATMOSPHERIC	LINER RESIN: ORTHO
TEMPERATURE: 150° F.	LINER CURE: COBALT/DMA/MEKP
CONTENTS: SALT WATER	LINER MATERIAL: C-VEIL
S.G. OR LBS/GAL. 1.3 / 10.8# (MAX)	STRUCTURE RESIN: ORTHO
EMPTY WEIGHT: 1,200 LBS NOM.	STRUCTURE CURE: COBALT/DMA/MEKP
CAPACITY: 210 BBL (NOM)	STRUCTURE MATERIAL: E GLASS
WIND VELOCITY: N/A	UV INHIBITOR: TINUVEN
SEISMIC ZONE: S <sub>5</sub> =N/A / S <sub>1</sub> =N/A	MFG. SPEC: PALMER
SCALE: 3/8"=1'-0"	DATE: 10/17/14   CHKD.BY: TGF   DWN.BY: J. VARGAS

**Palmer MFG. & TANK, INC.**  
 GARDEN CITY, KANSAS.

SALES ORDER #: 1911155

SALTWATER STORAGE TANK

16'-0" Ø x 6'-0" HEIGHT  
 FIBERGLASS STORAGE TANK

PART NUMBER: 343364  
 REV: 0

DRAWING NUMBER: 343364-1  
 REV: A

SHEET: 1 OF 1

DWG.	PART	DESCRIPTION	CHKD. BY	DATE	DWN. BY
			TGF	11/05/14	J.V.

NOTE: THIS IS AN EXACT COPY OF ( -F210-03C REV AD) WITH THESE CHANGES: UPDATED CUSTOMER INFORMATION IN TITLE BLOCK. UPDATED PART NUMBER IN B.O.M. & SCHEDULE OF FITTINGS.