



MODEL T-28 TOWER SPECIFICATIONS





TOWER SPECIFICATIONS: MODEL T-28

Cooling Tower Systems, Inc.

Design and Operating Conditions		Water Distribution System Construction Materials	
Tower Type:	Counter Flow Induced Draft	Stand Pipe:	PVC
Water Flow Rate (GPM):	24 GPM	Sprinkler Head:	Nylon
Entering Water Temperature	95°F	Sprinkler Pipes:	PVC
Leaving Water Temperature	85°F	Mechanical Equipment	
Wet Bulb Temperature:	75°F	Fan Unit:	One Unit per Tower
Total Fan BHP:	1/6 HP	Type:	Axial Flow
Total Pump Head:	5.0'	Manufacturer:	CTS
Drift Loss of Water Flow:	0.1%	Diameter:	19.5 in
Evaporation Loss of Water Flow:	0.93%	Blade Material:	Nylon
Design Wind Load:	30.7 lbs/sq. ft.	Hub Material:	Nylon
Structural Details		Nominal Air Volume:	2,648 CFM
Overall Diameter:	33.5"	Fan Motor	
Overall Height:	56"	Number of motors:	One Unit per Tower
Dry Weight:	93 lbs.	Type:	Induction
Operating Weight:	262 lbs.	Manufacturer:	CTS
Basic Tower Construction Materials		Insulation:	F Class
Tower Support Frame Assembly	-	Rated HP:	1/6 HP
Casing:	FRP	Voltage and phase:	110/220V/1
Casing Supporters	Nylon	Piping Connections	
Cold Water Basin	FRP	Primary Water Inlet Diameter	1.5"
Filling:	PVC	Primary Water Outlet Diameter:	1.5"
Filling Supports:	PVC	Auto fill inlet diameter:	1/2"
Fan Guard	HDGS	Quick fill inlet diameter:	-
Mechanical Equipment Supports:	HDGS	Overflow outlet diameter:	1"
Inlet Louvers:	PVC	Drain diameter:	3/4"
Bolts, Nuts & Washers:	STS	Water Flow (GPM):	24 GPM
Materials Key			
FRP	Fiberglass Reinforced Polyester	STS	Stainless Steel
HDGS	Hot Dipped Galvanized Steel	AC	Aluminum Alloy Cast

Cooling Tower Systems, Inc.

196 Lower Cherry St. Macon, GA 31201

TF: 800.752.1905

F: 478.755.8304

www.coolingtowersystems.com

info@coolingtowersystems.com



Cooling Tower Systems, Inc.

PARTS LIST: MODEL T-28

FOR ASSEMBLY DIAGRAM		
Ref. No.	Description	QTY
02-02	Outlet Nozzle	1
02-03	Inlet Nozzle	1
02-04	Over Flow Nozzle	1
02-05	Drain Nozzle	1
02-06	Automatic Filler Nozzle	1
02-07	Quick Filler Nozzle	1
02-08	Float Valve Assembly	1
02-09	Over Flow	1
02-10	Suction Strainer	1
02-12A	Z Type Connector	1
02-16	Elbow	1
02-19	Inlet Pipe	1
03-00	Water Basin	1
04-00	Casing Supporter	3
05-01A	Casing	3
05-06	Hand Hole Cover	1
06-01	Stand Pipe	1
06-04	Stand Pipe Base	1
07-01	Stopper	1
08-01	Filling Supporter - A	3
11-00	Filling	2
12-01	Sprinkler Head	1
13-01	Sprinkler Pipe	4
13-02	End Cap	-
13-03	Eliminator	-
13-04	Lock Nut	4
14-00	Motor Frame Assembly	1
16-01	Fan Motor	1
16-03	Fan Key	1
16-04	Fasten Nut	1
17-00	Fan Assembly	1
18-01	Fan Guard	1
20-02	Inlet Louver	3
20-10	Louver Bracket	-
20-11	Knob Pin	6
OTHERS	Bolts & Nuts	1 SET

FOR TECHNICAL DIAGRAMS			
Item No.	Description	Material	QTY
1	Fan Motor	-	1 pcs
2	V-Belt Reducer	-	-
3	Motor Frame Assembly	HDGS	1 set
4	Fan Blade Assembly	Nylon	1 set
5	Fan Guard	PP	1 set
6	Casing	FRP	3 pcs
7	Hand Hole	EVA	1 pcs
8	Sprinkler Head	Nylon	1 set
9	Sprinkler Pipes	PVC	4 pcs
10	Eliminator	-	-
11	Tension Device	-	-
12	Stand Pipe	PVC	1 set
13	Filling	PVC	1 set
14	Stopper or Column	PP	1 set
15	Filling Supporter	PVC	1 set
16	Casing Supporter	Nylon	3 pcs
17	Inlet Louver	PVC	1 set
18	Frame Assembly	-	-
19	Water Basin	FRP	1 pcs
20	Water Sump	-	-
21	Ladder	-	-
22	Strainer	PE	1 pcs
23	Flange	-	-
24	Basin Supporter	-	-

Materials Key	
FRP	Fiberglass Reinforced Polyester
HDGS	Hot Dipped Galvanized Steel
STS	Stainless Steel
AC	Aluminum Alloy Cast

Cooling Tower Systems, Inc.

196 Lower Cherry St. Macon, GA 31201

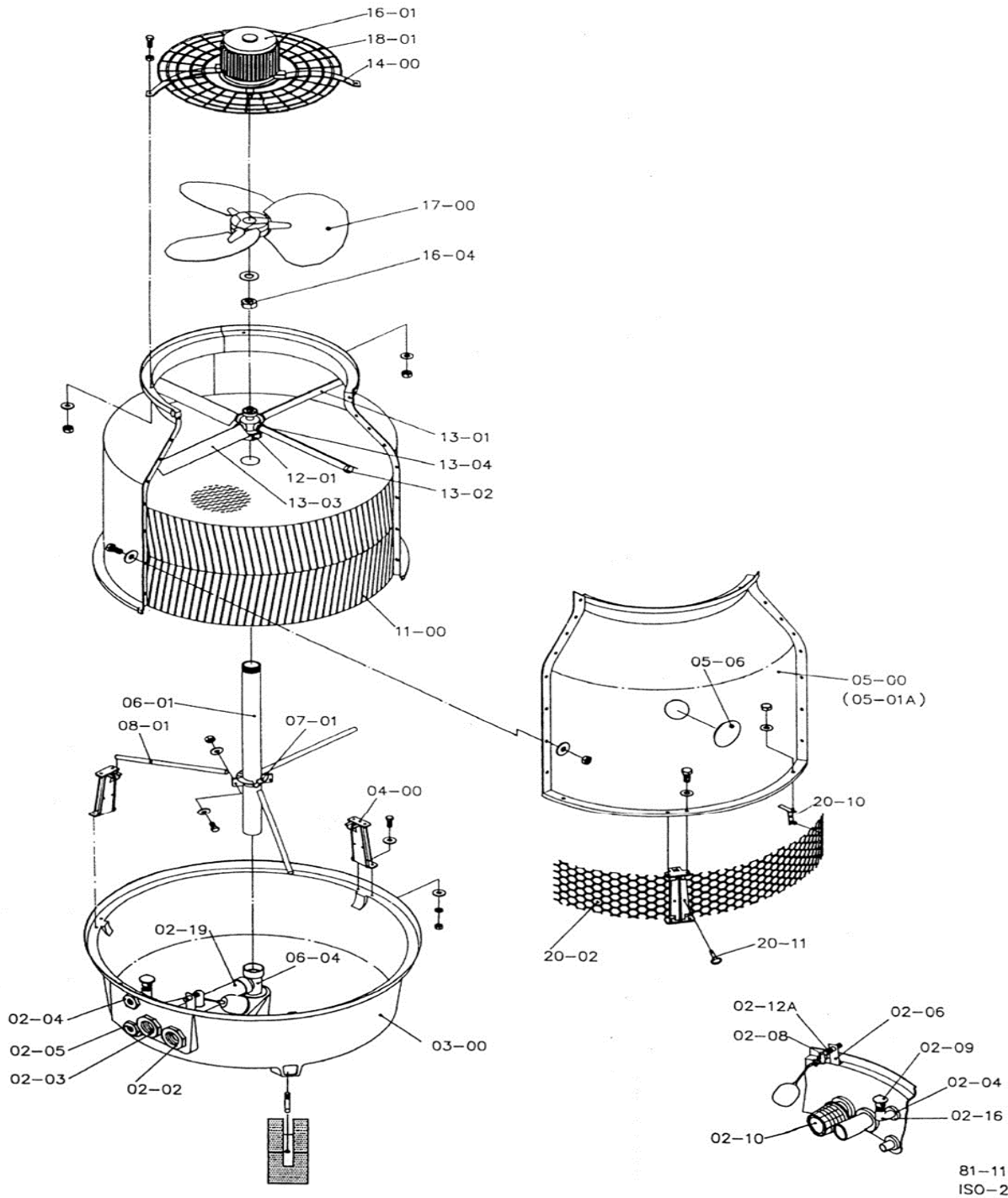
TF: 800.752.1905

F: 478.755.8304

www.coolingtowersystems.com

info@coolingtowersystems.com

ASSEMBLY DIAGRAM: MODEL T-28



Cooling Tower Systems, Inc.

196 Lower Cherry St. Macon, GA 31201

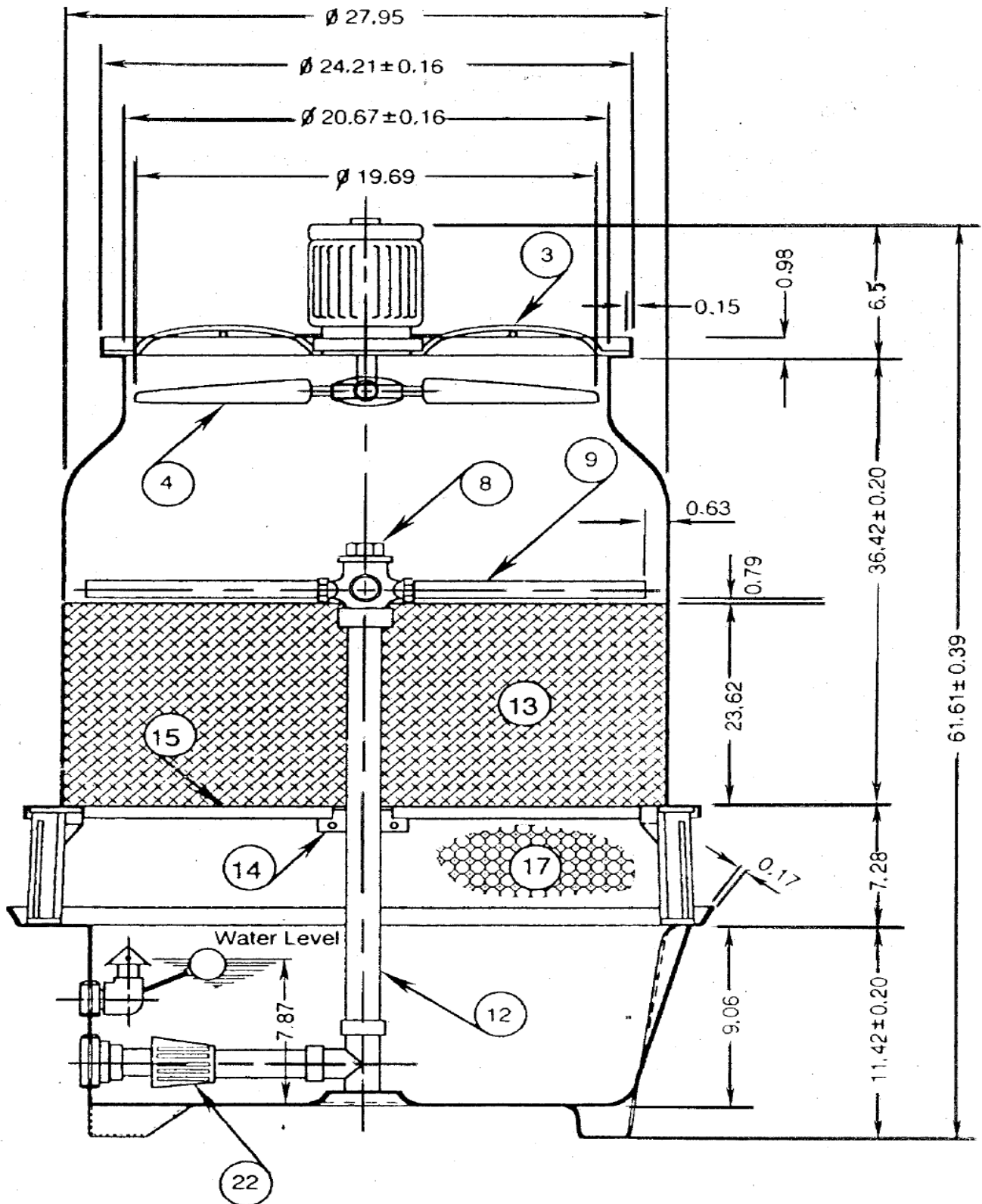
TF: 800.752.1905

F: 478.755.8304

www.coolingtowersystems.com

info@coolingtowersystems.com

TECHNICAL DRAWING A: MODEL T-28



Cooling Tower Systems, Inc.

196 Lower Cherry St. Macon, GA 31201

TF: 800.752.1905

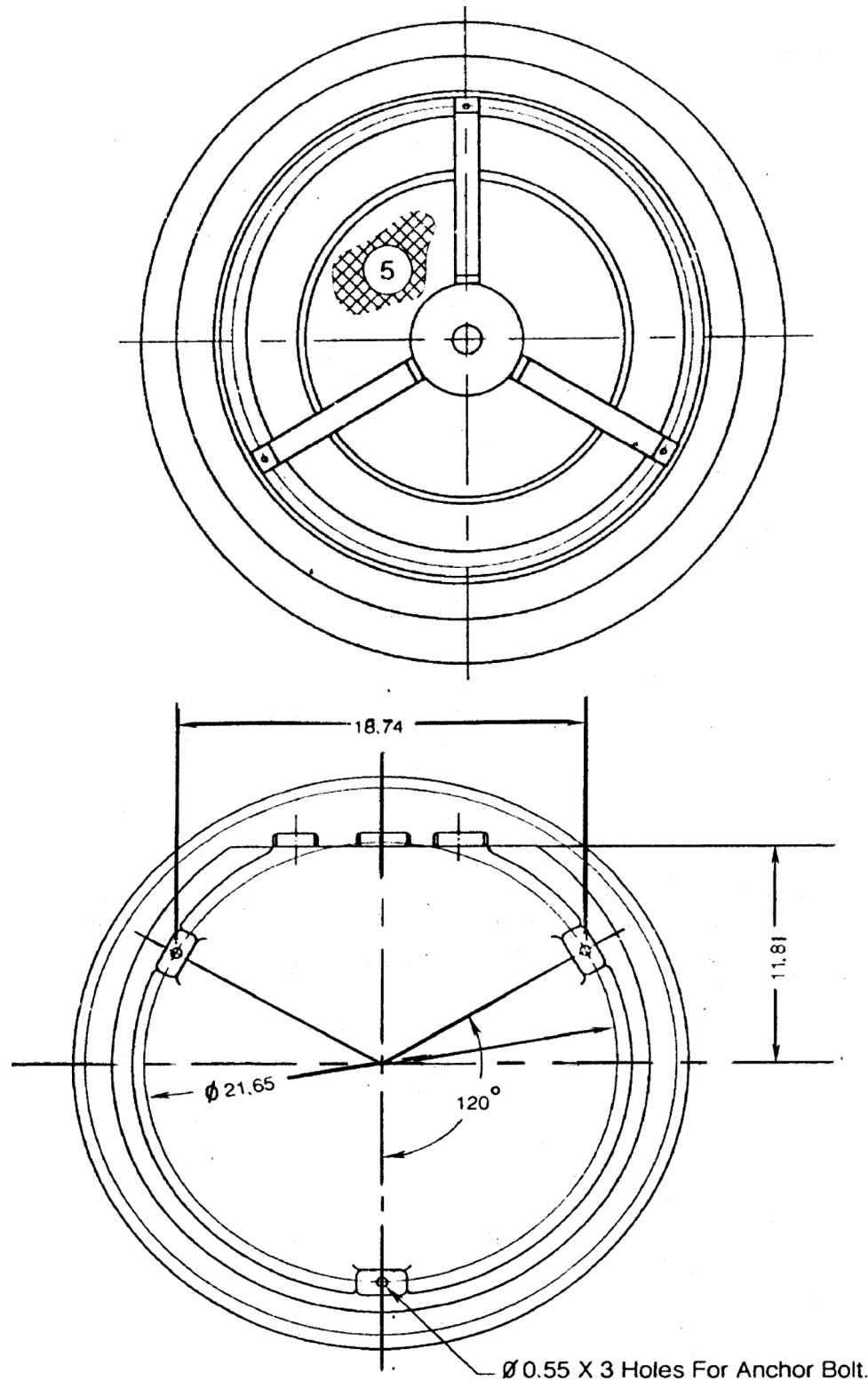
F: 478.755.8304

www.coolingtowersystems.com

info@coolingtowersystems.com



TECHNICAL IMAGE B & C: MODEL T-28 Cooling Tower Systems, Inc.



Cooling Tower Systems, Inc.

196 Lower Cherry St. Macon, GA 31201

TF: 800.752.1905

F: 478.755.8304

www.coolingtowersystems.com

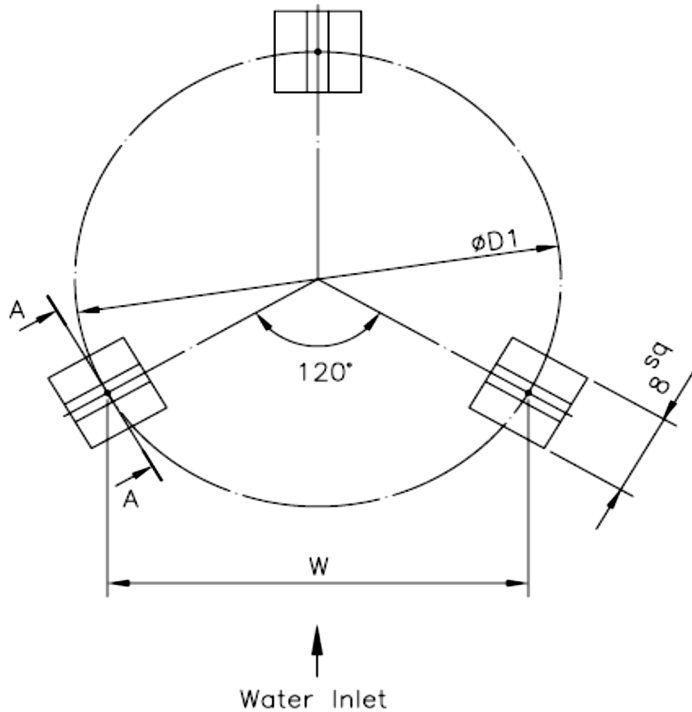
info@coolingtowersystems.com



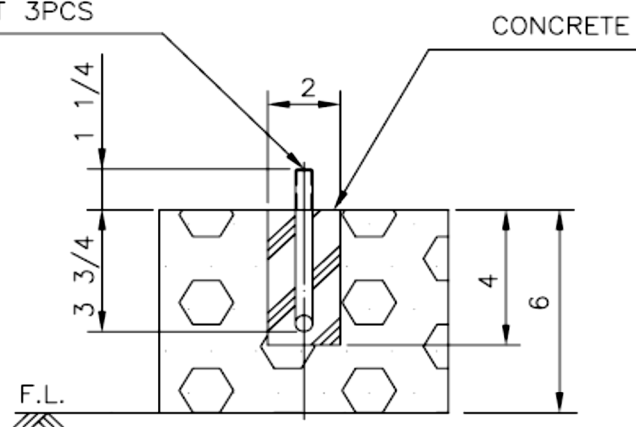
Cooling Tower Systems, Inc.

FOUNDATION DRAWING: MODEL T-28

T-	øD1	W
25~28	21 5/8	18 3/4
210	29 1/2	25 5/8
215	34 5/8	30
220	44	38 1/4



1 1/4L ALL THREAD PROJECTION
W1/2x5L, L TYPE ANCHOR BOLT 3PCS



A-A SECTION

Cooling Tower Systems, Inc.

196 Lower Cherry St. Macon, GA 31201

TF: 800.752.1905

F: 478.755.8304

www.coolingtowersystems.com

info@coolingtowersystems.com