

# **L.B. WHITE COMPANY**

**411 MASON STREET  
ONALASKA, WI 54650**

**(800) 345-7200**



[www.lbwhite.com](http://www.lbwhite.com)

## **INSTALLATION MANUAL FOR EVAPORATIVE COOLING**

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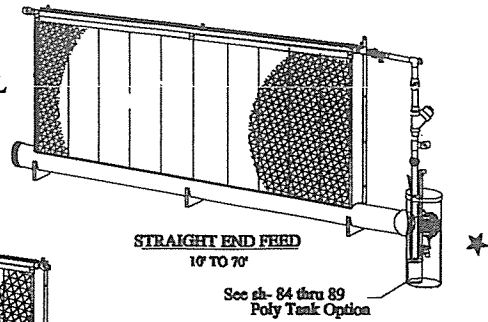
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## TOOLS REQUIRED FOR INSTALLATION

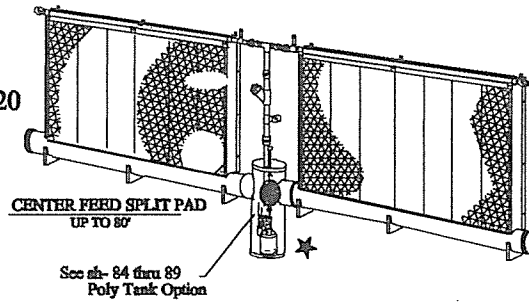
|                                                                                                                              |                                                                                           |                                                                                                                |
|------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| PVC Piping Glue<br>Circular Saw<br>Line & Hand Level<br>Transit or surveyors level<br>Wrench<br>Phillips & flat Screw driver | PVC Piping Cutter<br>Ladder 8' Step<br>Chalk Line<br>Drill w/1/4" bit<br>"Sharpie" Marker | PVC Pipe Cleaner<br>Tape Measure<br>Hammer<br>Ratchet Set<br>Nut Driver<br>Plywood Saw Blade<br>min. 140 tooth |
|------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|

GENERAL SKETCHES OF SYSTEMS  
REEVES SUPPLY COMPANY OFFERS WITH  
THEIR LOCATION IN INSTALLATION MANUAL

See sh-7

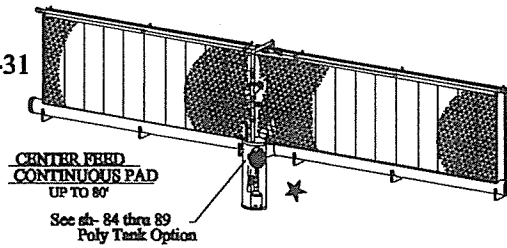


See sh-20

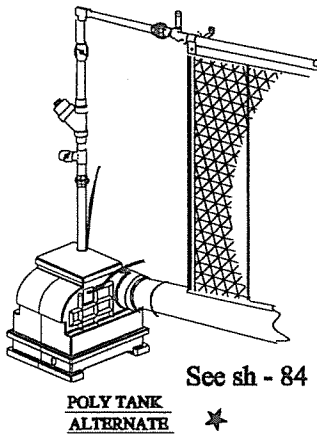


See sh- 84 thru 89  
Poly Tank Option

See sh-31

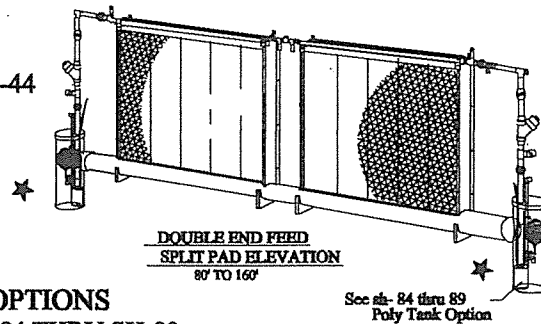


See sh- 84 thru 89  
Poly Tank Option



See sh - 84

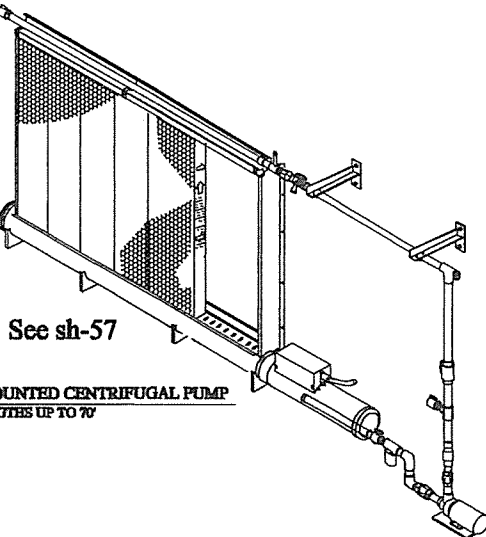
See sh-44



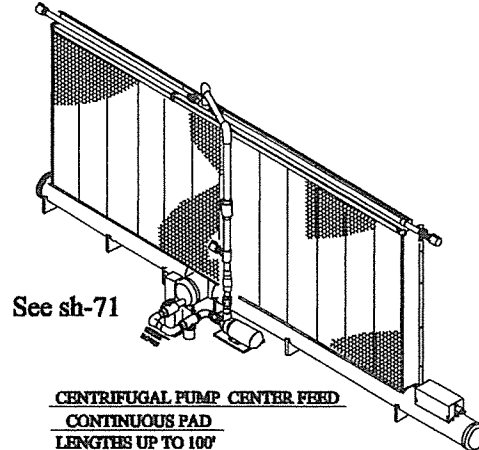
See sh- 84 thru 89  
Poly Tank Option

SUMP OR TANK OPTIONS  
TANK OPTIONS SEE SH-84 THRU SH-89

CENTRIFICAL PUMP OPTION



See sh-57



See sh-71

GENERAL ASSEMBLY SECTION

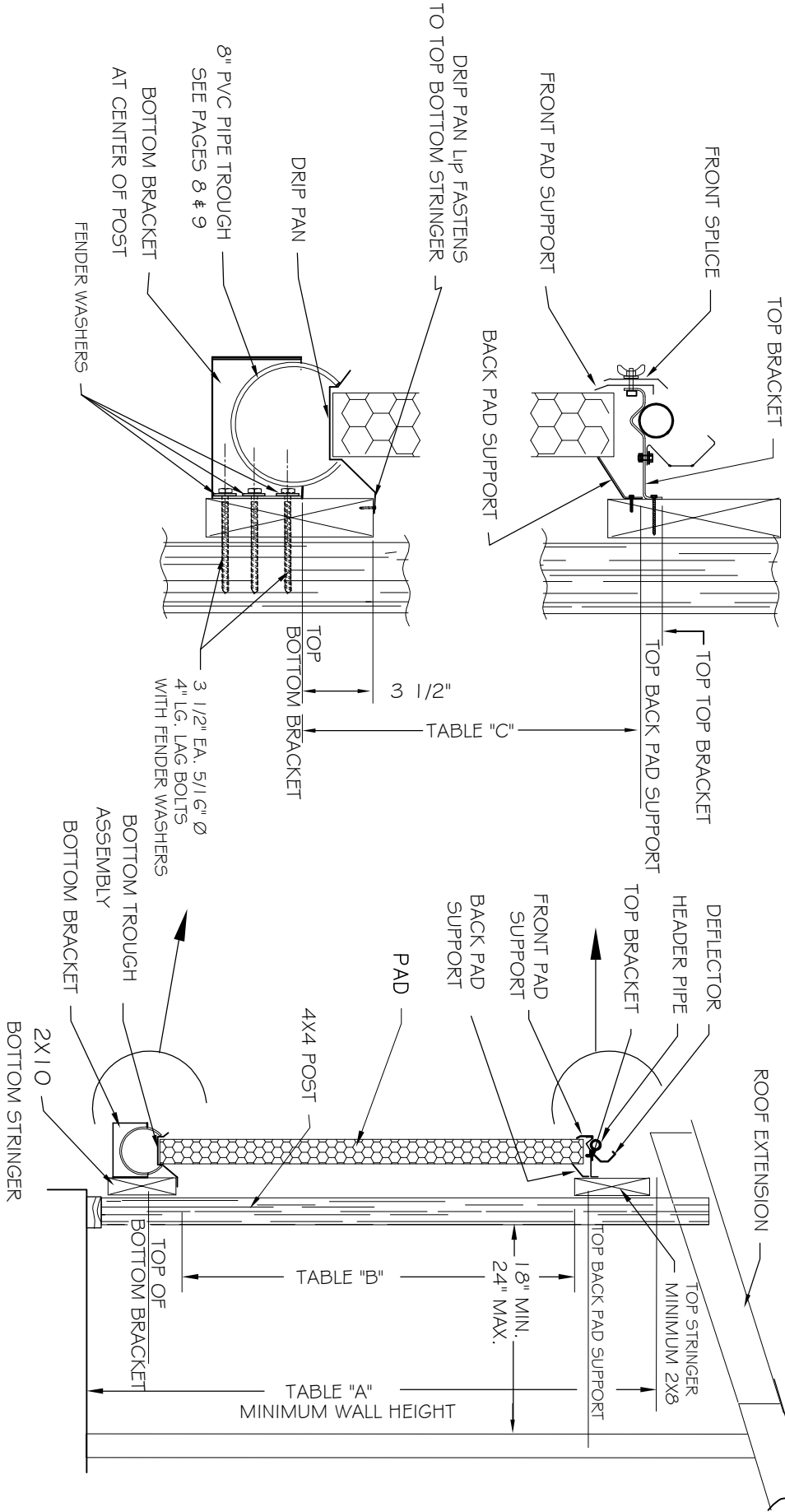
MINIMUM WALL HEIGHT  
PAD HEIGHT + 16" = "A"

| TABLE "A"  |                     |           |
|------------|---------------------|-----------|
| PAD HEIGHT | OVERALL WALL HEIGHT |           |
|            | in FEET             | in INCHES |
| 3'-0"      | 4'-4"               | 52"       |
| 4'-0"      | 5'-4"               | 64"       |
| 5'-0"      | 6'-4"               | 76"       |
| 6'-0"      | 7'-4"               | 88"       |

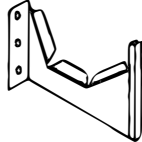
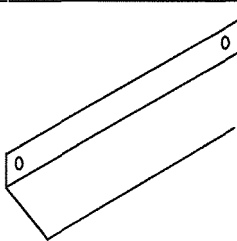
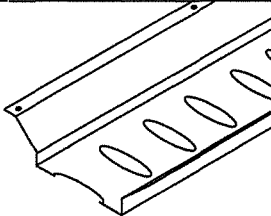
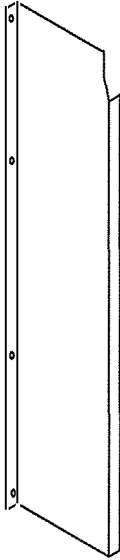
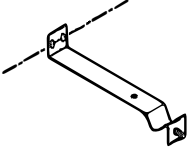
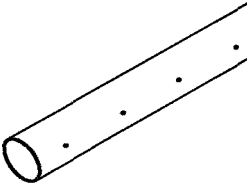
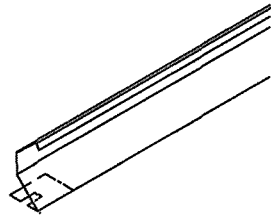
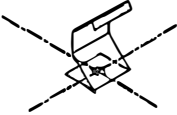
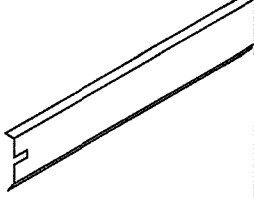
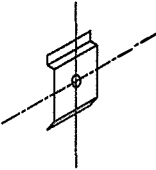
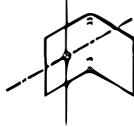
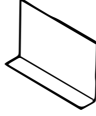
ROUGH OPENING HEIGHT  
PAD HEIGHT - 3" = "B"

| TABLE "B"  |                                       |           |
|------------|---------------------------------------|-----------|
| PAD HEIGHT | CLEAR BETWEEN TOP AND BOTTOM STRINGER |           |
|            | in FEET & IN                          | in INCHES |
| 3'-0"      | 2'-9"                                 | 33"       |
| 4'-0"      | 3'-9"                                 | 45"       |
| 5'-0"      | 4'-9"                                 | 57"       |
| 6'-0"      | 5'-9"                                 | 69"       |

| TABLE "C"  |                                                               |         |
|------------|---------------------------------------------------------------|---------|
| PAD HEIGHT | DIMENSION BETWEEN TOP BOTTOM BRACKET AND TOP BACK PAD SUPPORT |         |
|            | IN FT. & IN.                                                  | INCHES  |
| 3'-0"      | 3'-3 1/2"                                                     | 39 1/2" |
| 4'-0"      | 4'-3 1/2"                                                     | 51 1/2" |
| 5'-0"      | 5'-3 1/2"                                                     | 63 1/2" |
| 6'-0"      | 6'-3 1/2"                                                     | 75 1/2" |



# PARTS LIST

|                                                                                                                                          |                                                                                                                                       |                                                                                                                               |                                                                                                                                                                |                                                                                                                                        |
|------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
|  <p>674097-KIT<br/>610-131552</p> <p>BOTTOM BRACKET</p> |  <p>610-131545XX-YY</p> <p>BACK PAD<br/>SUPPORT</p> |  <p>610-131548XX-YY</p> <p>TROUGH</p>      |  <p>LEFT- 610-131549LXX-BB<br/>RIGHT- 610-131549RXX-BB</p> <p>END PANEL</p> |                                                                                                                                        |
|  <p>674096-KIT<br/>610-131556</p> <p>TOP BRACKET</p>    |  <p>650-131776-Z</p> <p>HEADER PIPE</p>             |  <p>610-131547-XX-YY</p> <p>DEFLECTOR</p>  |                                                                                                                                                                |                                                                                                                                        |
|  <p>610-131550XX</p> <p>DEFLECTOR<br/>SPLICE</p>      |  <p>610-131546XX-YY</p> <p>FRONT PANEL</p>        |  <p>610-131551XX</p> <p>FRONT SPLICE</p> |  <p>610-131555XX</p> <p>END PANEL<br/>CLIP</p>                            |  <p>610-131554XX</p> <p>END PANEL<br/>BRACKET</p> |

## KEY:

XX - ALUMINUM (AL)  
STEEL (SS)

YY - LENGTH (IN)  
Z - LENGTH (FT)  
BB - HEIGHT (IN)

# OPERATION

## Initial Startup

When the pads are new their slick surface will inhibit the soaking that will happen when pads have gone through the "break-in" period. In order to "break-in" the pads, it is necessary to pump water over the pads continuously for one or two days depending on water "hardness" in your area. This is referred to as the "soak-in time."

After the pads have gone through the "break-in" period turn the water off and inspect the pads carefully. Any dry streaks found will indicate uneven water distribution. If dry streaks are found the header pipe will need to be cleaned. See procedure for cleaning system on next page.

## Normal Operations

During normal conditions the pump should run continuously when air is being drawn across the pads. Water flow is controlled with the ball valve

During system operation look for signs of scale formation. Scale is a concentration of solids that build up on the surface of the pads. The scale comes from impurities in the water that are deposited when the water evaporates. If scale is noticed increase bleed off rate.

If water level in the reservoir is too high the bottom of the pads may stand in water. The part of the pads that are submerged will become waterlogged. This will result in breakdown of the waterlogged parts of the pads, thus greatly reducing the life of the pads.

## Extending Pad Life

With use of your system you will become aware of various factors that affect the efficiency and life of the system. The three most typical problems are algae growth, scale, and dirt build up on the pads. A good maintenance program takes a small amount of time and will pay off with longer service life and more efficient operating system.

## Algae Treatment

If algae develops in pipes it may be necessary to treat the water with chemicals. Consult the local agricultural distributor for a suitable water treatment.

## Limit on-off Cycling

Many users have initially seen greater cooling effects from their system when they run the system on a ten minute cycle. Granted this procedure may have effective short term result, however the pad life is greatly reduced. Short term on-off cycles result in an increase scale deposit. The soluble minerals in the water become deposited on the pads each time the pads dry. The deposited scale (salts) limit the cooling effectiveness.

The best performance can be obtained with a water flow that keeps the water flowing over the pads. This will continuously flush the pads clean.

### **Bleed-off water from the system**

Why bleed off water? As water is recycled through your system the impurities become more concentrated. When water evaporates no impurities are carried along, therefore the amount of impurities in the water that have not evaporated remain in the system. The chemicals, minerals and other impurities that are left behind through evaporation build up in the reservoir and should be diluted.

The only way to reduce the level of concentration is by removing (bleeding-off) water from the system. The amount of water you should bleed-off depends on the quality of the water being used by your system.

The amount of water you should bleed-off depends on the water quality in your area. If you have a large amount of impurities, you will need to allow more water to escape. If you see scale beginning to form on the pads, you will need to increase your bleed-off rate. The best method for determining the bleed-off rate is to first find out how much evaporation is occurring. To calculate a rough estimate of your evaporation, multiply the area of the pad by the air speed through the pad, by the temperature drop from one side to the other, then divide the final number by 500,000.

Example: assume you had 5' tall by 60' long and your air speed is 300 feet per minute. Outside temperature is 95 , and inside temperature is 75 you would have an evaporation rate of 3.6 gallons per minute.

If water is extremely hard (that is with high levels of impurities) then the bleed-off rate should be equal to evaporation. In areas with little minerals in the water supply, then bleed-off somewhere between 1/4 to 1/2 the evaporation rate.

### **Cleaning the system**

1. Shut off the pump and clean the strainer. To clean in-line filter: (a) close ball valve between filter and reservoir; (b) unscrew filter and dump out water; (c) replace filter; (d) open ball valve.
2. If possible turn off fans. (if this is not possible, run fans at minimum level).
3. Gently hose off pads. Clean algae from pads and pipes.
4. Flush reservoir: (a) close ball valve between pump and 1" diameter exhaust; (b) open 1" diameter exhaust valve; (c) turn on pump; (d) added to reservoir by fill line as system flushes.
5. After flushing reservoir: (a) turn off pump; (b) open ball valve between exhaust and union fitting; (c) close exhaust valve.
6. Flush header: (a) open ball valve at end of header; (b) turn on pump; (c) flush for several minutes.
7. Disconnect union at end of header.
8. Insert brush into header. Brush out debris from header line.
9. Reconnect union.
10. After flushing header: Turn off pump. Close ball valve at end of header.
11. Refill reservoir to full level.
12. Resume normal operation.

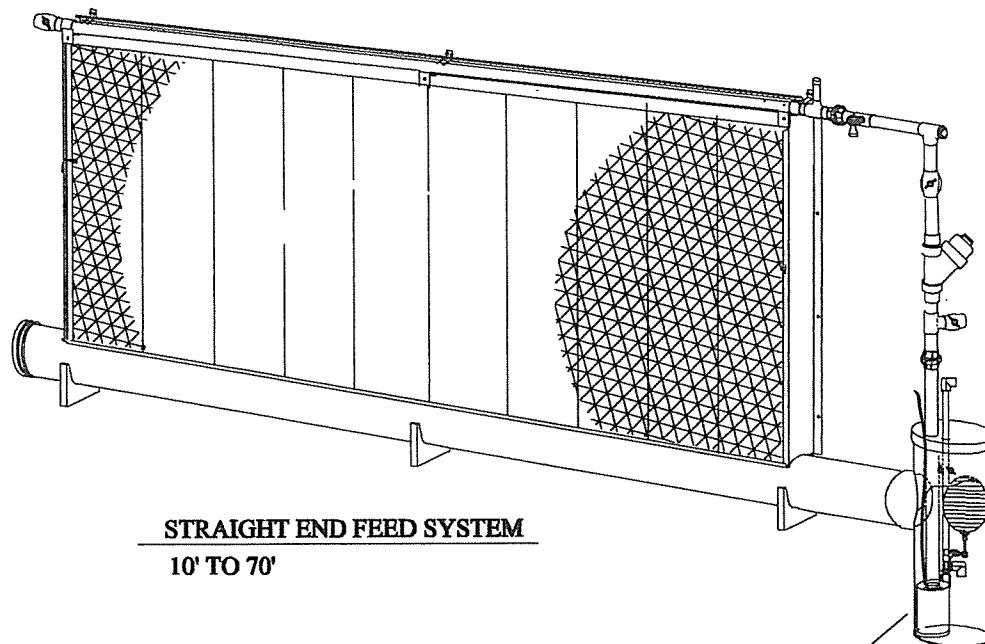
### **Winterizing the system**

1. Shut off pump.
2. Close ball valve between in-line filter and reservoir,
3. Remove filter cover.
4. Open ball valve between strainer and reservoir. Drain water from system.  
NOTE: expect about 70 gallons of standing water per 50 feet of reservoir pipe.
5. Do not replace filter cover until recharging the system for normal operation.
6. Leave all fittings open for winter.  
\* If left closed they will freeze and burst.

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sheet no.

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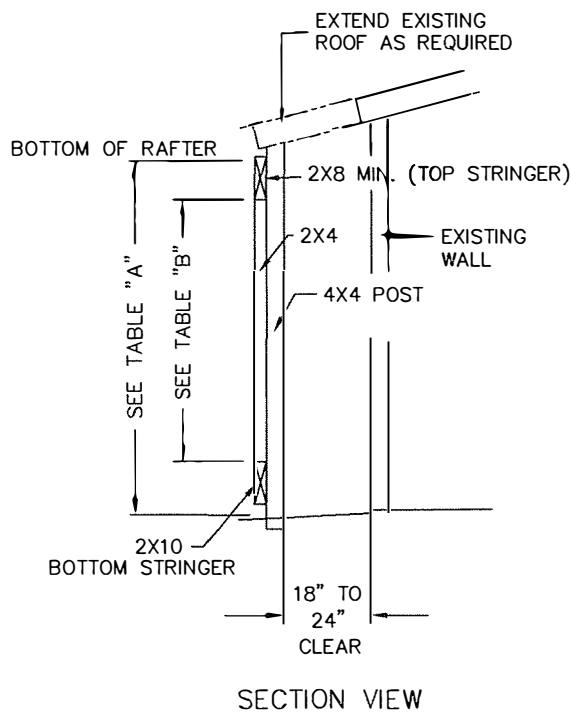
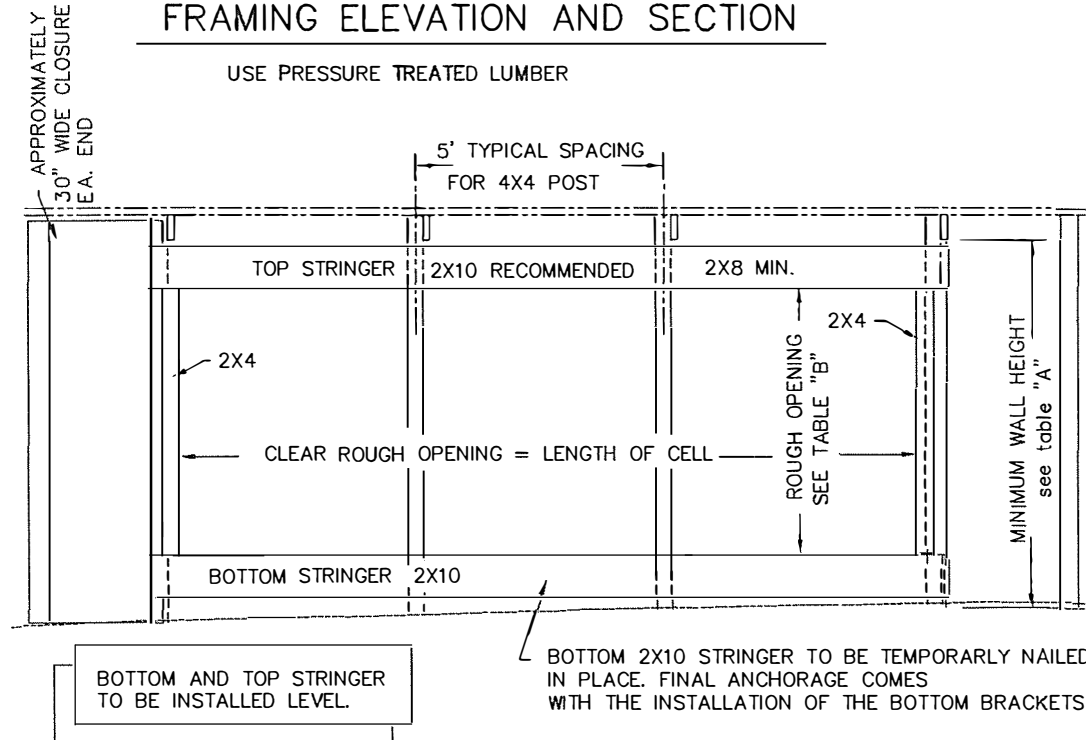
**STRAIGHT END FEED SYSTEM**  
10' TO 70'



SEE SHEET 85 FOR  
POLY TANK OPTION

## FRAMING ELEVATION AND SECTION

USE PRESSURE TREATED LUMBER



MINIMUM WALL HEIGHT  
PAD HEIGHT + 16" = "A"

| PAD HEIGHT | TABLE "A"<br>OVERALL WALL HEIGHT |           |
|------------|----------------------------------|-----------|
|            | in FEET & IN                     | in INCHES |
| 3' -0"     | 4' -4"                           | 52"       |
| 4' -0"     | 5' -4"                           | 64"       |
| 5' -0"     | 6' -4"                           | 76"       |
| 6' -0"     | 7' -4"                           | 88"       |

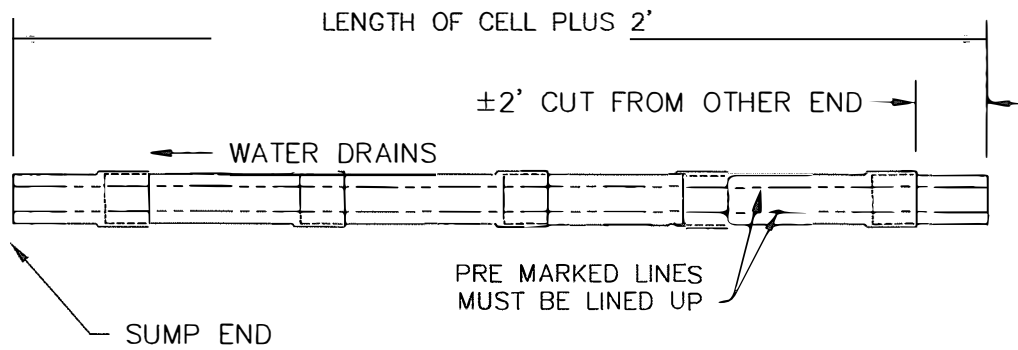
ROUGH OPENING HEIGHT  
PAD HEIGHT - 3' = "B"

| PAD HEIGHT | TABLE "B"<br>CLEAR BETWEEN 2X10 |           |
|------------|---------------------------------|-----------|
|            | in FEET & IN                    | in INCHES |
| 3' -0"     | 2' -9"                          | 33"       |
| 4' -0"     | 3' -9"                          | 45"       |
| 5' -0"     | 4' -9"                          | 57"       |
| 6' -0"     | 5' -9"                          | 69"       |

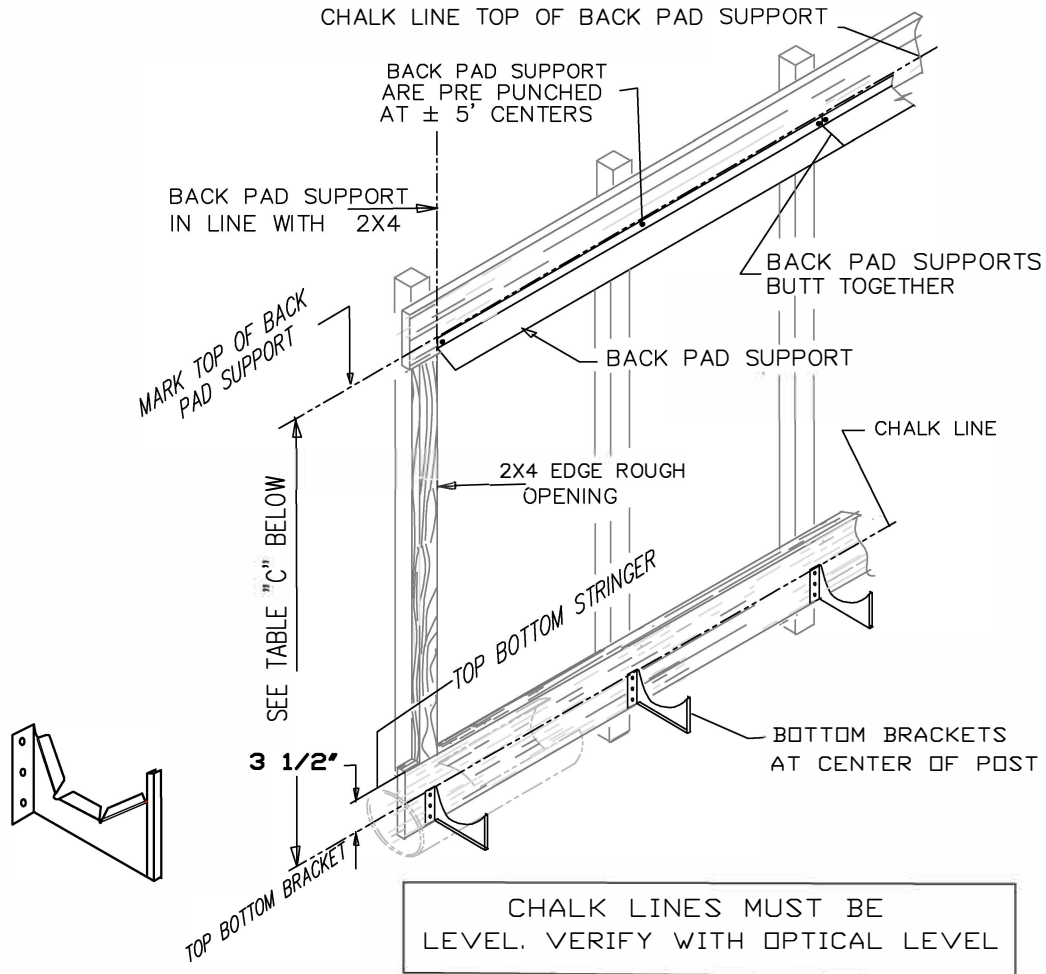
## GLUE 8" TROUGH FOR END FEED SYSTEM

DO NOT DISTURB GLUED PIPE  
UNTIL GLUE HAS CURED.

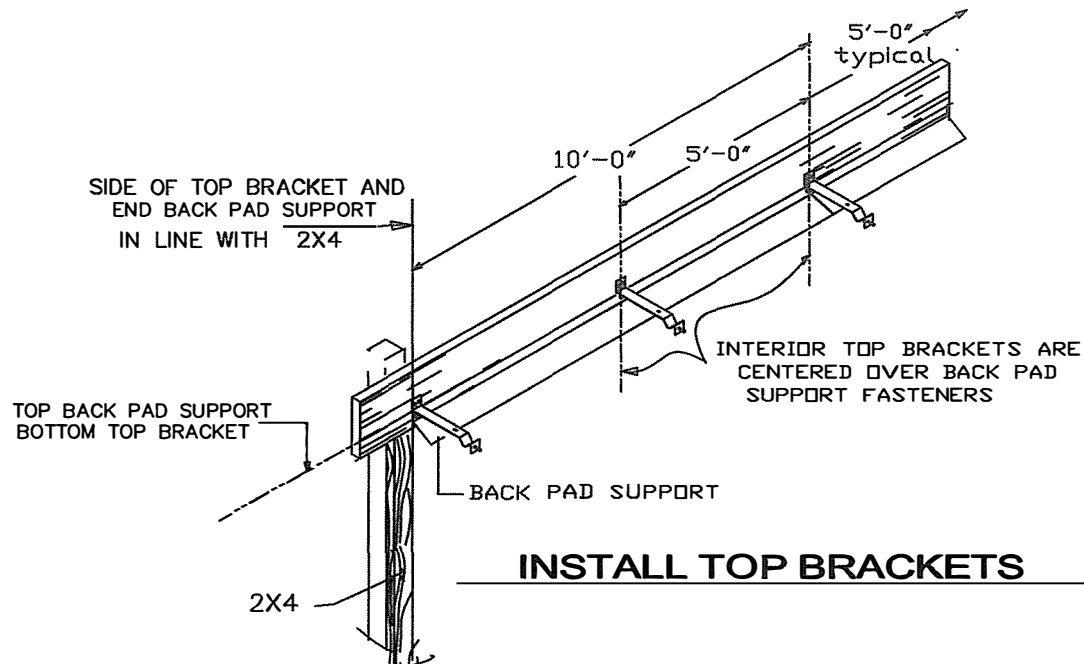
A MINIMUM OF 2' EXTRA 8" PIPE PROVIDED



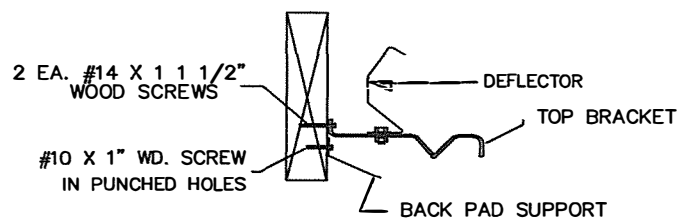
## INSTALL BACK PAD SUPPORT



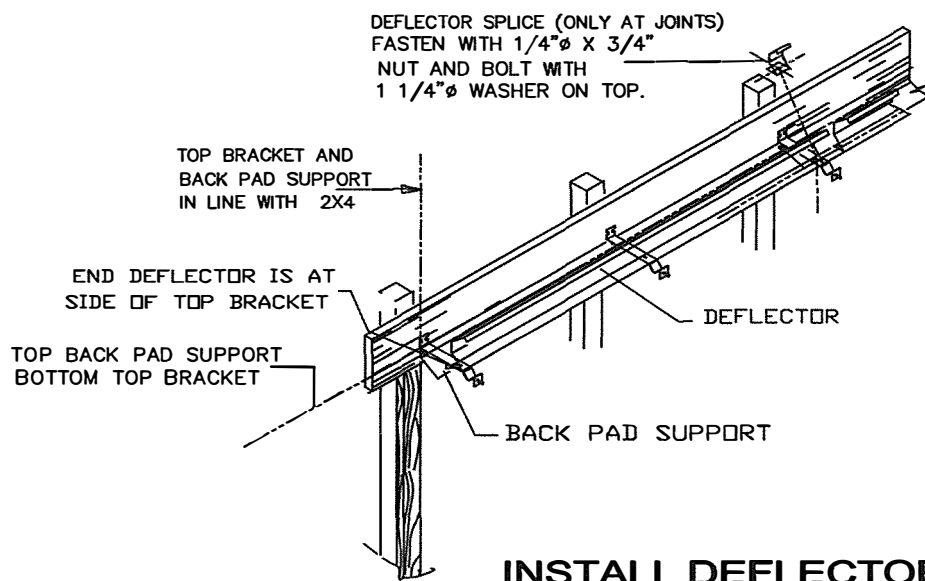
| TABLE "C"  |                                                               |         |
|------------|---------------------------------------------------------------|---------|
| PAD HEIGHT | DIMENSION BETWEEN TOP BOTTOM BRACKET AND TOP BACK PAD SUPPORT |         |
|            | IN FT. & IN.                                                  | INCHES  |
| 3' -0"     | 3' -3 1/2"                                                    | 39 1/2" |
| 4' -0"     | 4' -3 1/2"                                                    | 51 1/2" |
| 5' -0"     | 5' -3 1/2"                                                    | 63 1/2" |
| 6' -0"     | 6' -3 1/2"                                                    | 75 1/2" |



## INSTALL TOP BRACKETS



## END VIEW



## INSTALL DEFLECTOR

## TROUGH FABRICATION

### FOR END FEED SYSTEMS

AFTER THE GLUE HAS DRIED PLACE THE ASSEMBLED PIPE ON THE BOTTOM BRACKETS AND SLIDE ASSEMBLY AS REQUIRED TO MAKE SURE THE JOINS CLEAR THE BOTTOM BRACKETS.

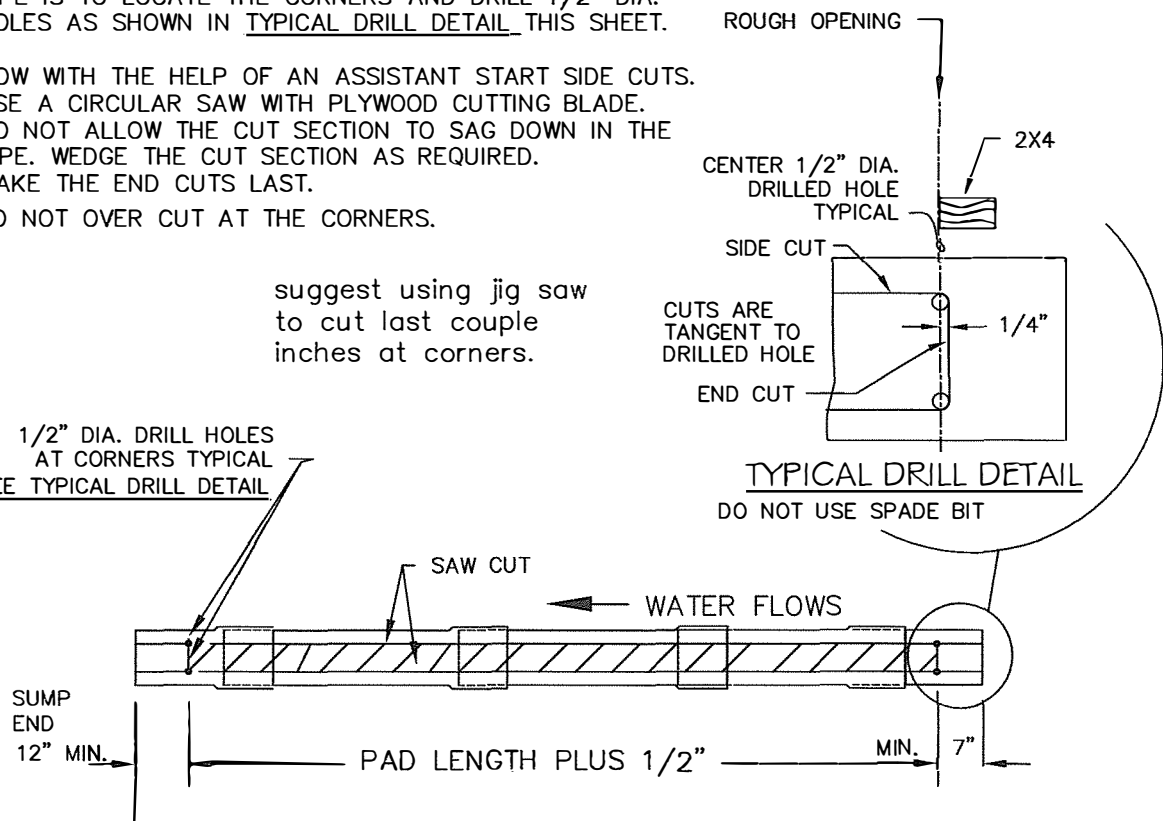
DRILL HOLES AT CORNERS  
BEFORE MAKING CUTS

WITH PIPE ON THE BOTTOM BRACKETS AND CLEAR OF THE BRACKETS THE FIRST STEP IN CUTTING THE PIPE IS TO LOCATE THE CORNERS AND DRILL  $1/2"$  DIA. HOLES AS SHOWN IN TYPICAL DRILL DETAIL THIS SHEET.

NOW WITH THE HELP OF AN ASSISTANT START SIDE CUTS. USE A CIRCULAR SAW WITH PLYWOOD CUTTING BLADE. DO NOT ALLOW THE CUT SECTION TO SAG DOWN IN THE PIPE. WEDGE THE CUT SECTION AS REQUIRED. MAKE THE END CUTS LAST. DO NOT OVER CUT AT THE CORNERS.

suggest using jig saw  
to cut last couple  
inches at corners.

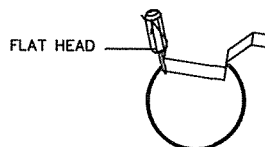
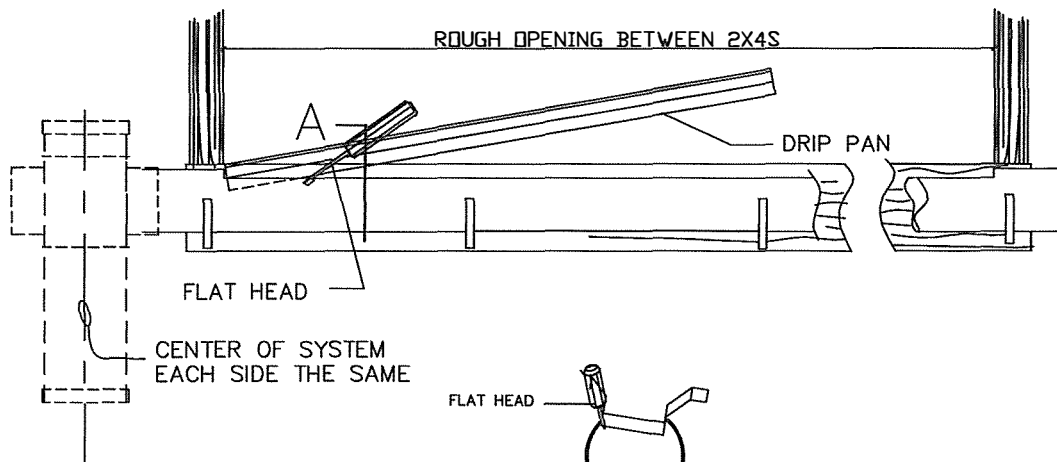
$1/2"$  DIA. DRILL HOLES  
AT CORNERS TYPICAL  
SEE TYPICAL DRILL DETAIL



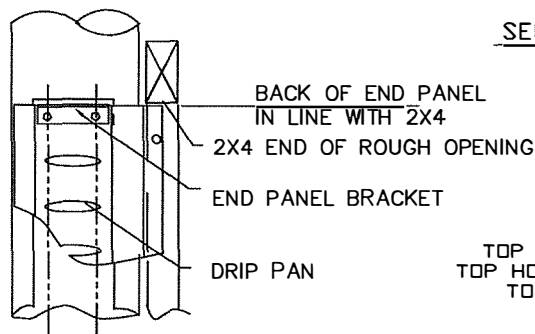
## PLACE DRIP PAN IN TROUGH

THOROUGHLY CLEAN THE TROUGH BEFORE INSTALLING THE DRIP PAN,

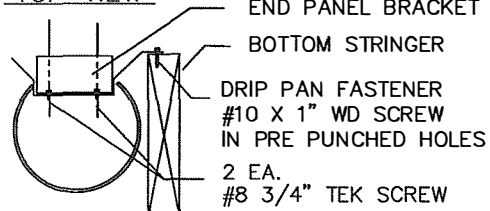
DUE TO THE TIGHT FIT OF DRIP PAN IN THE TROUGH PIPE THE OPENING WILL MOST LIKELY REQUIRE PRYING OPEN TO "WALK IN" THE DRIP PAN. TYPICALLY A FLAT HEAD SCREW DRIVER WEDGED BETWEEN PIPE AND PAN JUST AHEAD OF THE SEATED AREA WORKS WELL. SLIGHT ROTATION OF THE PAN HELPS SEE SECTION "A" BELOW.



SECTION A



TOP VIEW



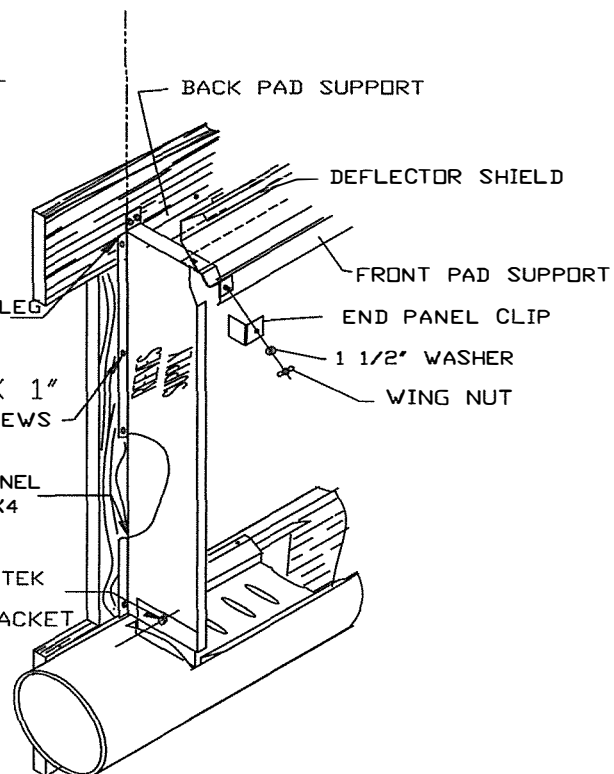
END VIEW

TOP END PANEL  
TOP HORIZONTAL LEG  
TOP BRACKET

#10 X 1"  
WD. SCREWS

BACK END PANEL  
EDGE 2X4

#8 X 3/4" TEK  
THRU END  
PANEL BRACKET

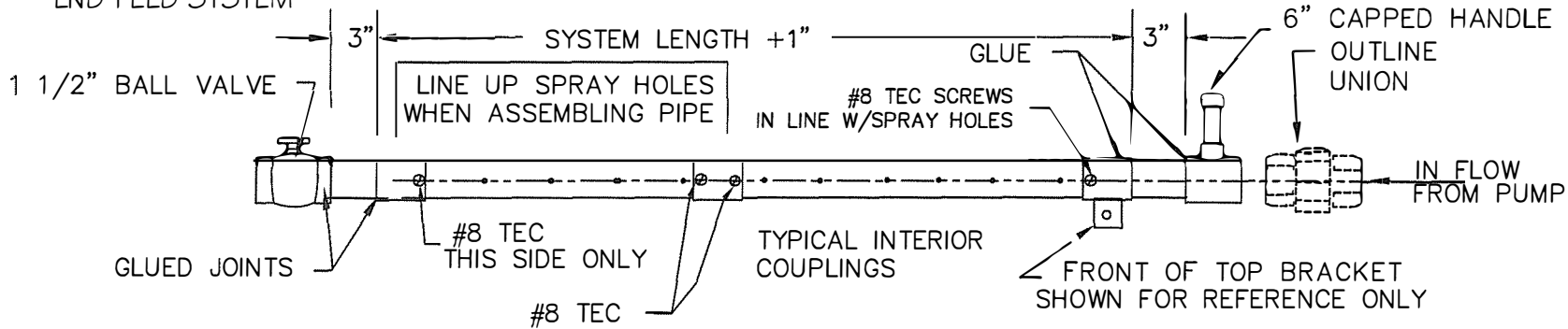


INSTALL END PANELS  
BOTH ENDS

## INSTALL END PANELS BRACKETS

## ASSEMBLE HEADER PIPE

### END FEED SYSTEM



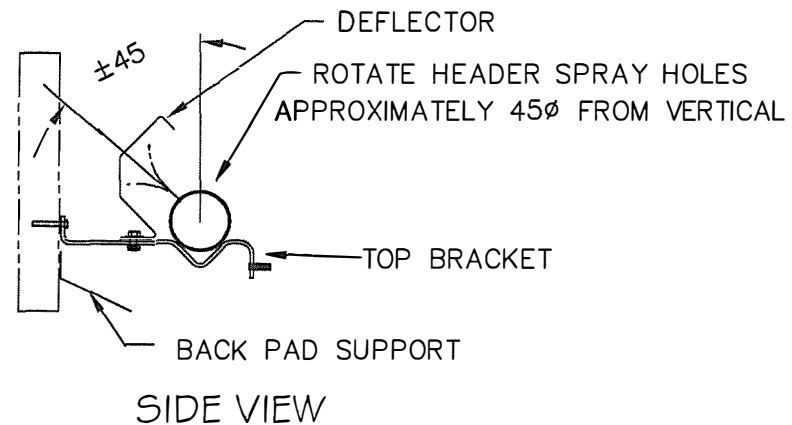
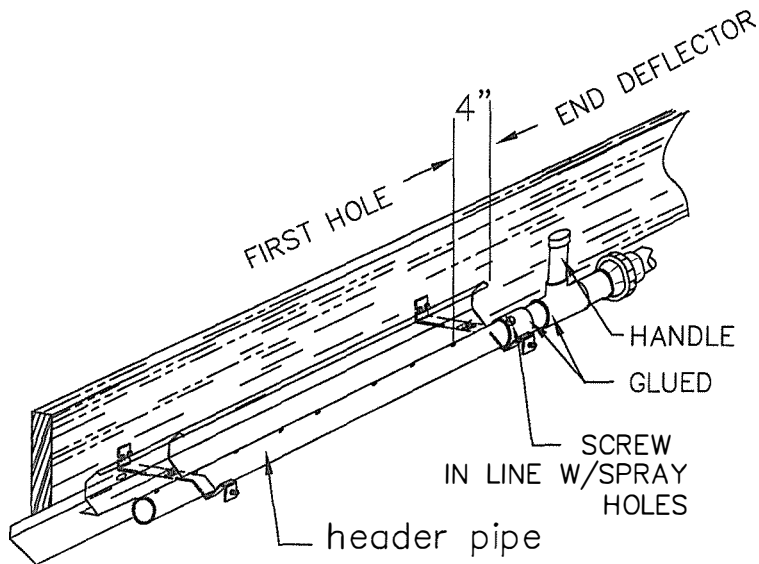
### HEADER PIPE DETAIL

#### STEP 1 (DO NOT GLUE HEADER PIPE)

MAKE SURE HOLES ARE LINED UP WHEN ASSEMBLING HEADER.  
COUPLINGS ARE SCREW FASTENED TO PIPE WITH 2 EACH  
#8 TEC SCREWS. 1 SCREW EACH SIDE OF COUPLING.

#### STEP 2

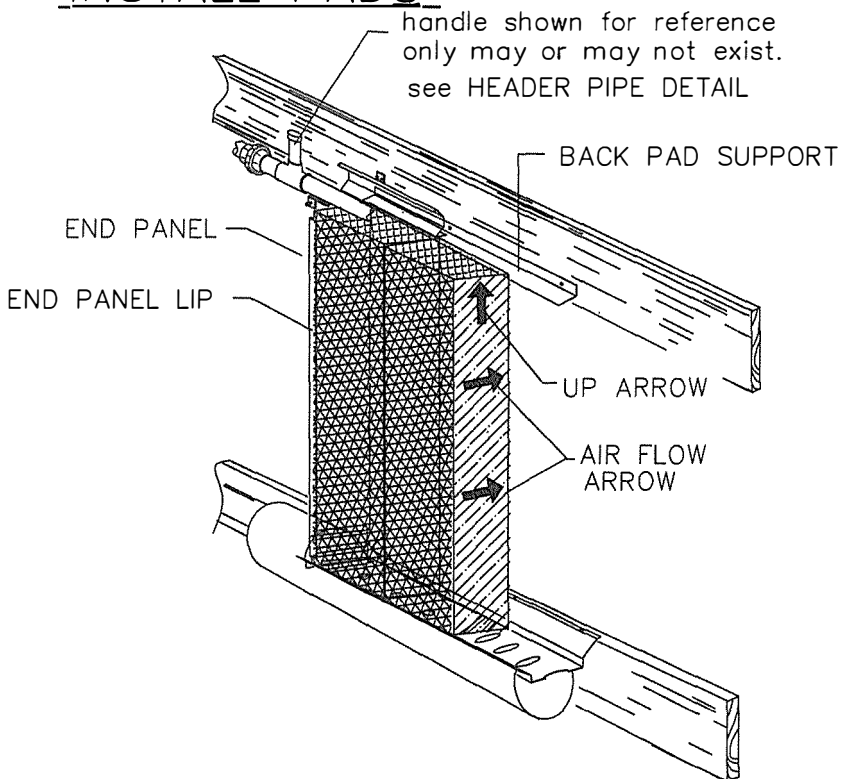
PLACE ASSEMBLED HEADER PIPE ON TOP BRACKETS. MAKE  
SURE THE HEADER SPANS FULL LENGTH OF TOP  
BRACKETS. JOIN BALL VALVE WITH ABOUT 3" OF PIPE  
TO OUT ENDS. PLACE HANDLE W/ ABOUT 3" ON IN FLOW END



#### STEP 3

POSITION HEADER PIPE TO PROVIDE MINIMUM 4" BETWEEN FIRST SPRAY HOLE AND END OF DEFLECTOR. THIS TO PREVENT SPRAYING OUTSIDE THE DEFLECTOR. IT MAY BE NECESSARY TO CUT HEADER PIPE AND INSTALL A COUPLING TO GAIN THE 4" CLEARANCE.

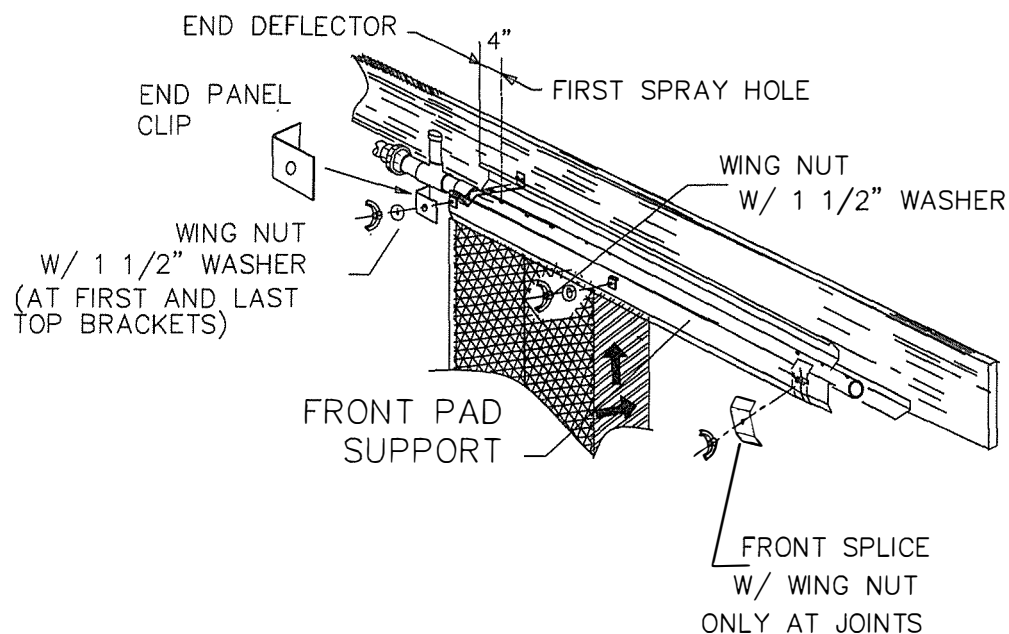
## INSTALL PADS



NOTE: SIDES OF PADS ARE COLORED AND MARKED WITH ARROWS TO SHOW CORRECT ORIENTATION OF PADS. MAKE SURE PADS ARE PLACED CORRECTLY.

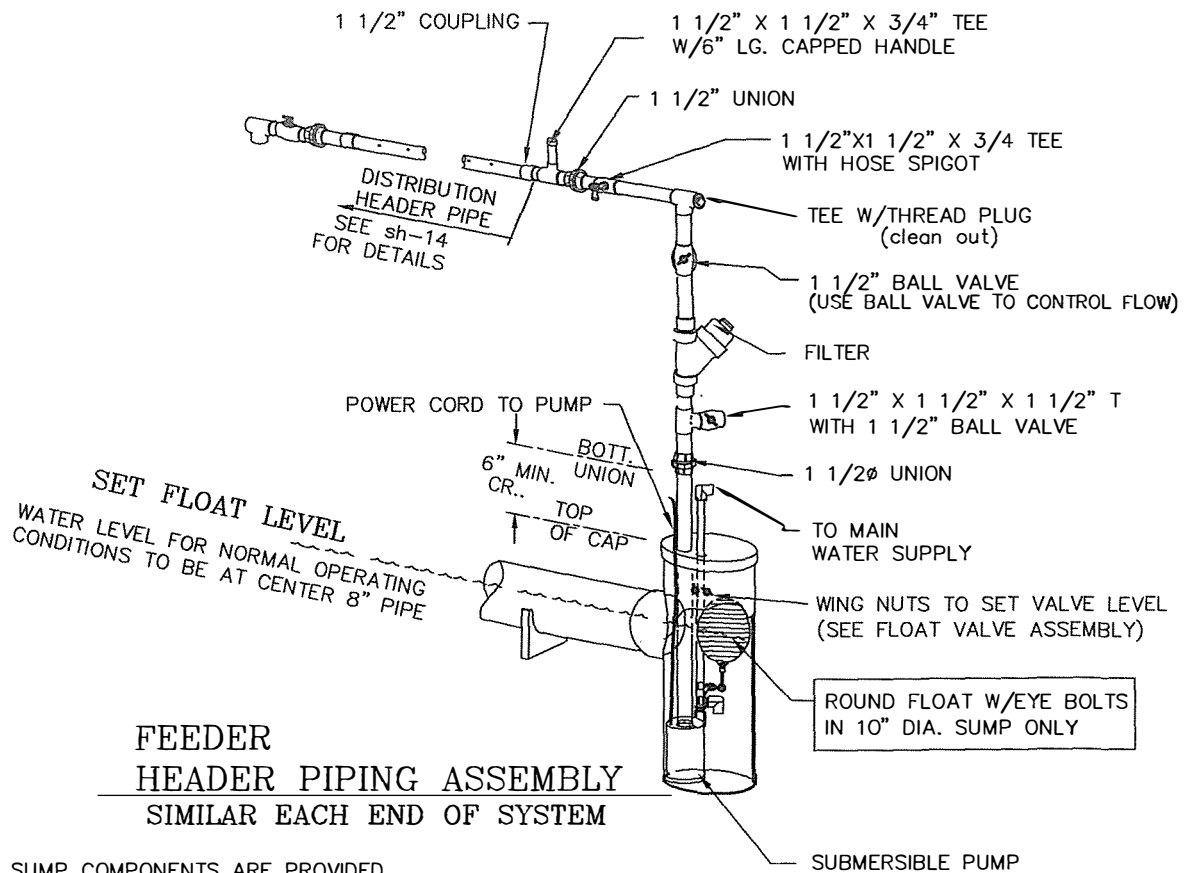
"NEST THE FIRST PAD BEHIND LIP AGAINST THE END PANEL. INSTALL REMAINDER OF PADS TIGHTLY AGAINST THE PREVIOUSLY INSTALLED PAD. CONTINUE UNTIL THE NEXT TO LAST PAD HAS BEEN INSTALLED. IN ORDER TO INSTALL THE LAST PAD THE NEXT-TO-LAST PAD SHOULD BE SLID BEHIND FAR END PANEL LIP. THIS SHOULD PROVIDE SUFFICIENT CLEARANCE TO INSTALL THE LAST PAD.

## INSTALL FRONT PAD SUPPORT

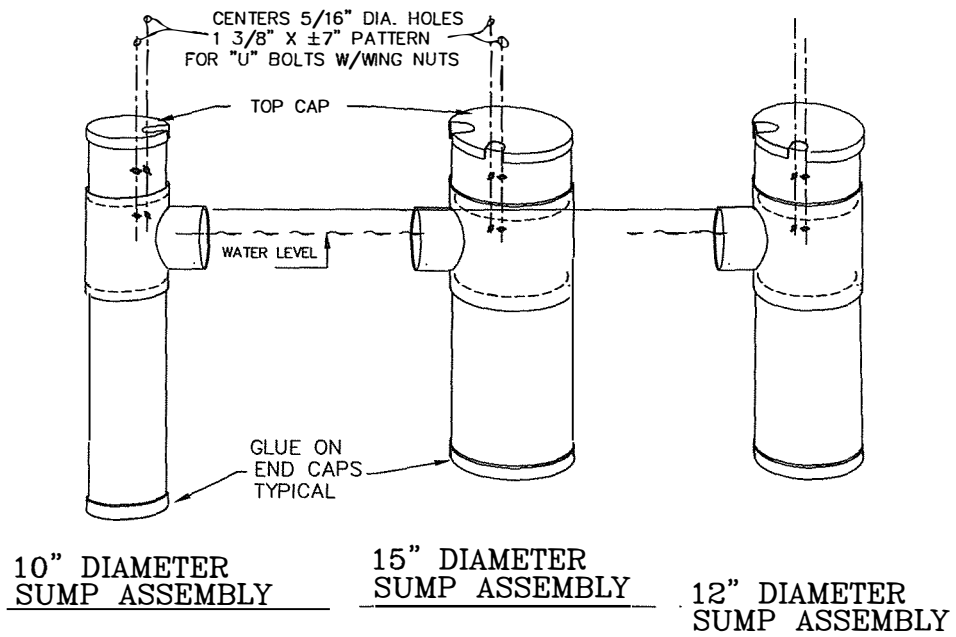


THE FRONT PANEL CAN BE INSTALLED AS PADS ARE PLACED OR AFTER ALL PADS HAVE BEEN INSTALLED.

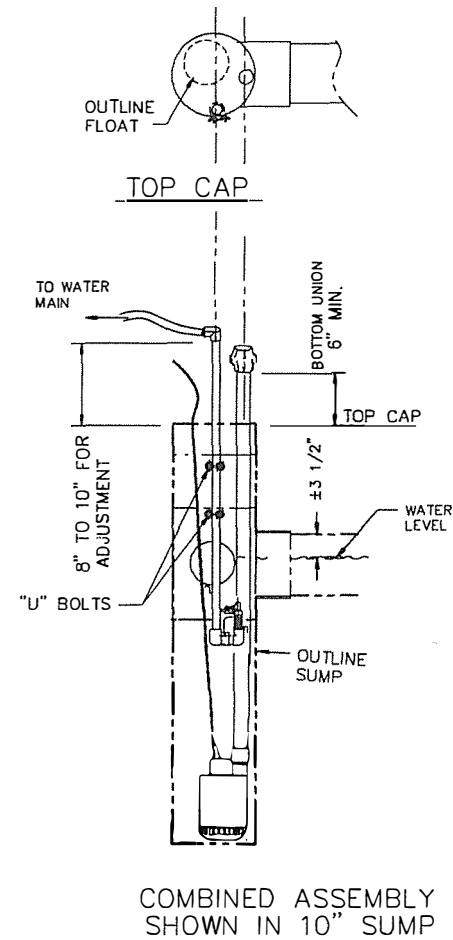
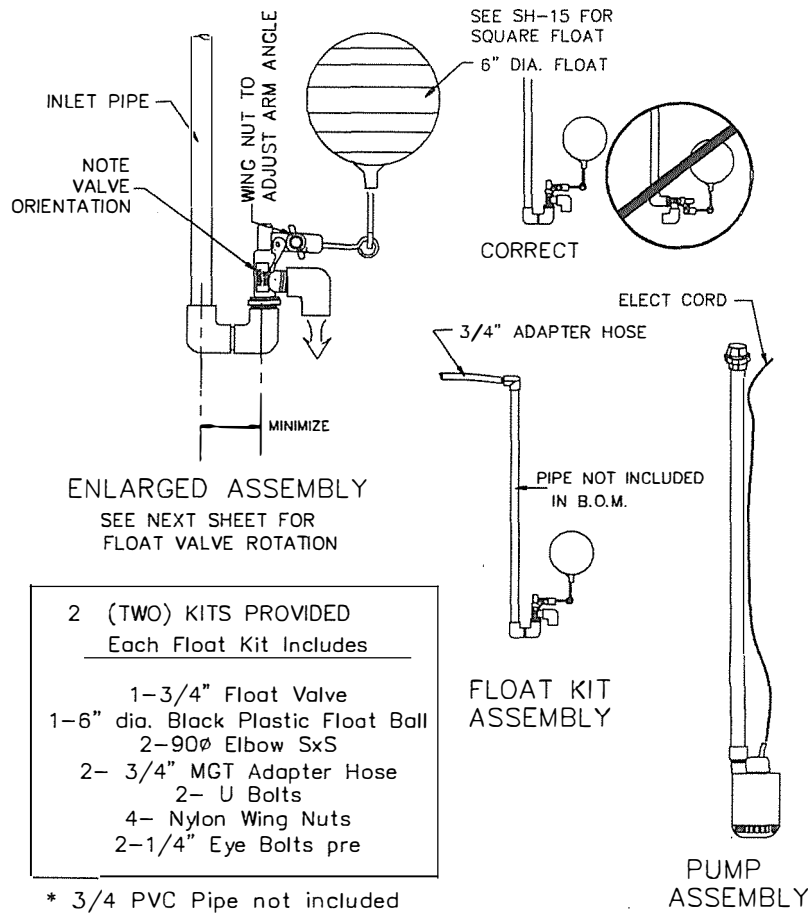
NOTE: ON ALUMINUM SYSTEM PEEL OFF PVC COATING AND PLACE REEVES SUPPLY STICKER ON END PANEL.



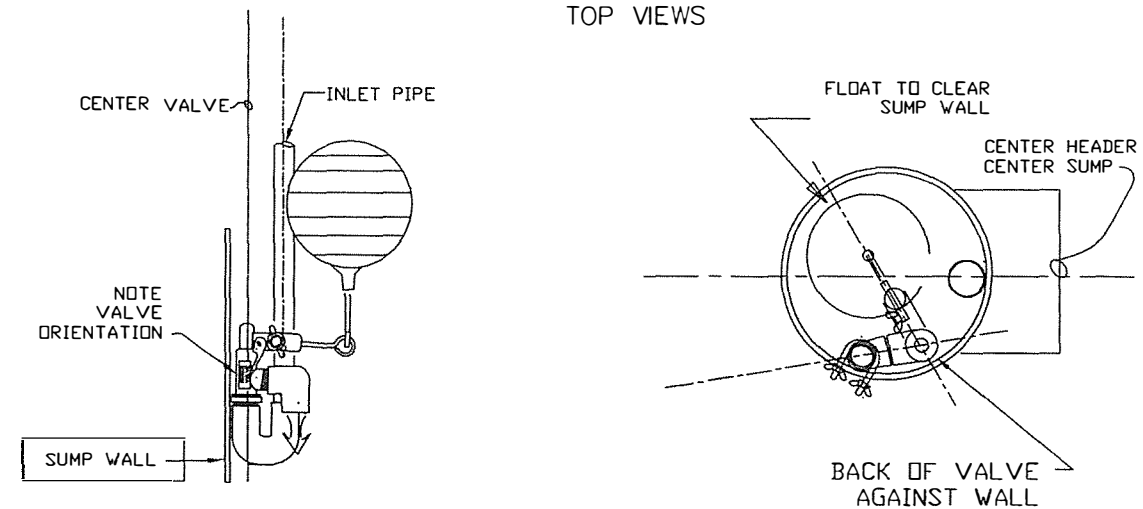
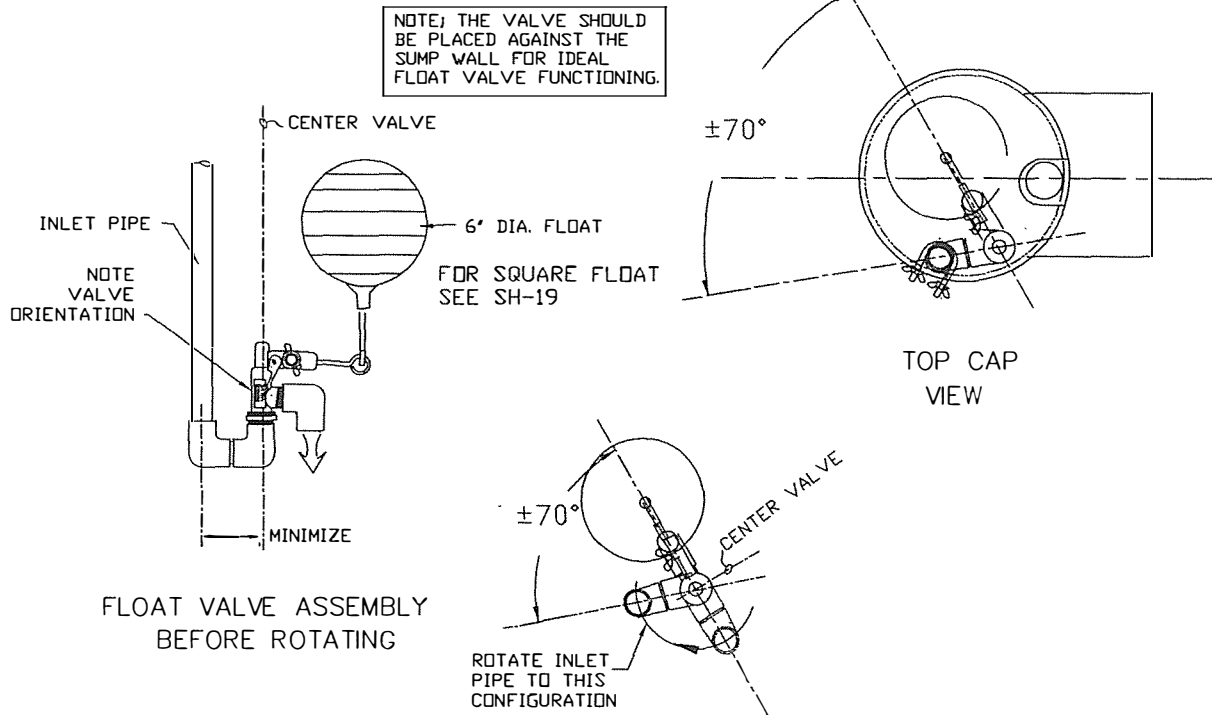
SUMP COMPONENTS ARE PROVIDED  
THE END CAP TO BE GLUED ON IN FIELD.  
THE TOP CAP WILL REQUIRE OPENINGS TO BE FIELD CUT  
DO NOT GLUE ON TOP CAP



# FLOAT VALVE ASSEMBLY PUMP ASSEMBLY

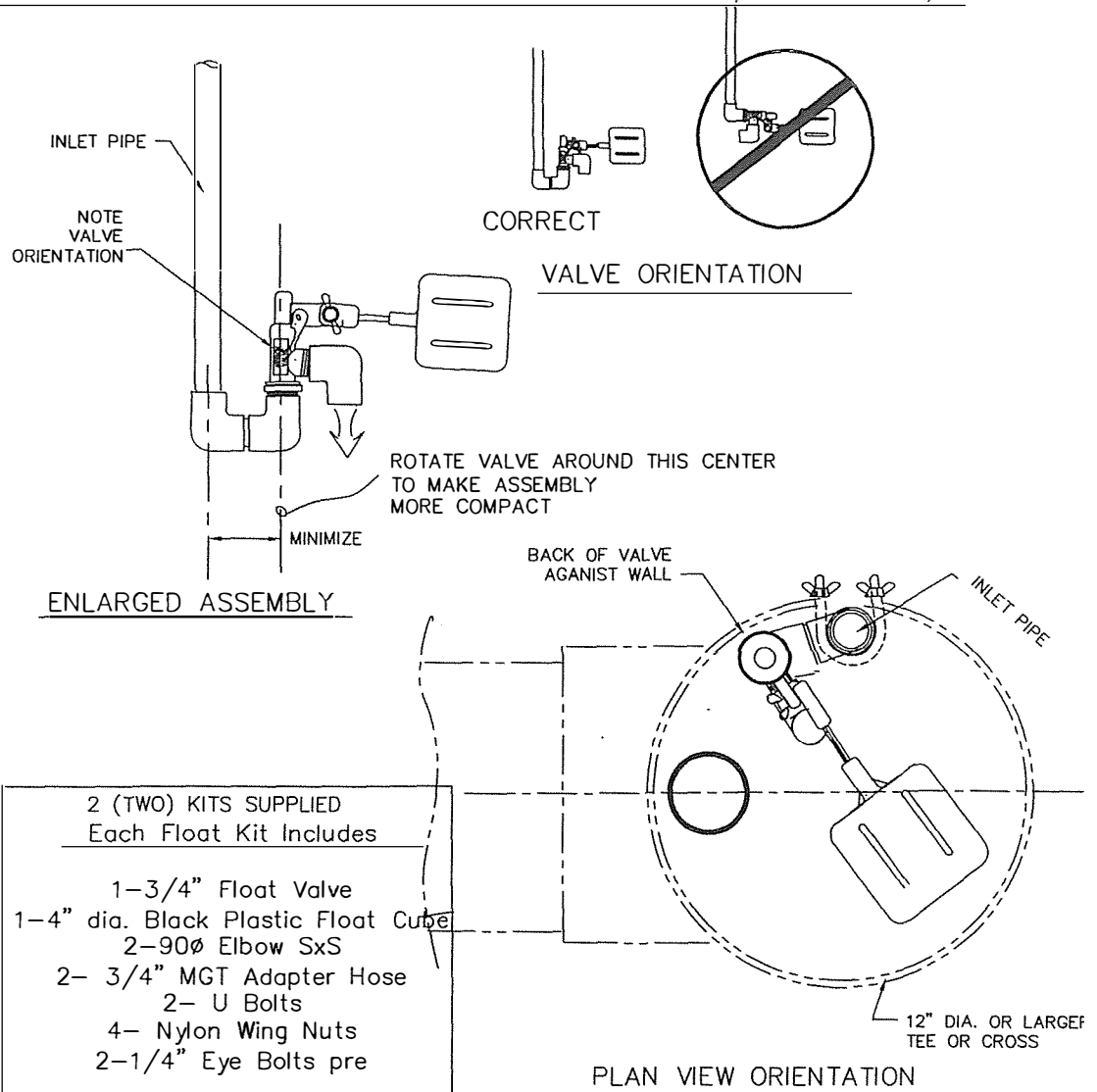


# FLOAT VALVE ASSEMBLY CONFIGURATION



FLOAT VALVE ASSEMBLY  
MOST COMPACT  
MUST USE THIS ARRANGEMENT  
FOR 10" SUMP AND 10" CROSS SUMP

## SQUARE FLOAT & VALVE ASSEMBLY for 12" & 15" TEES only

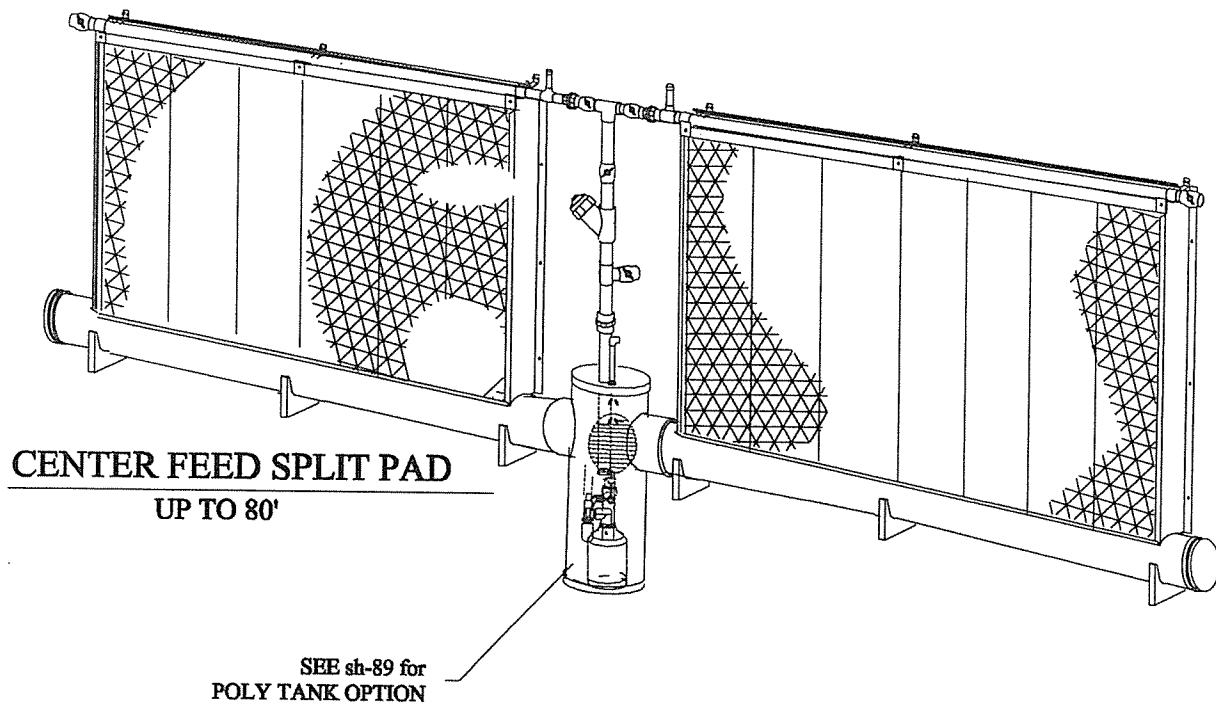


\* 3/4" PVC Pipe not included

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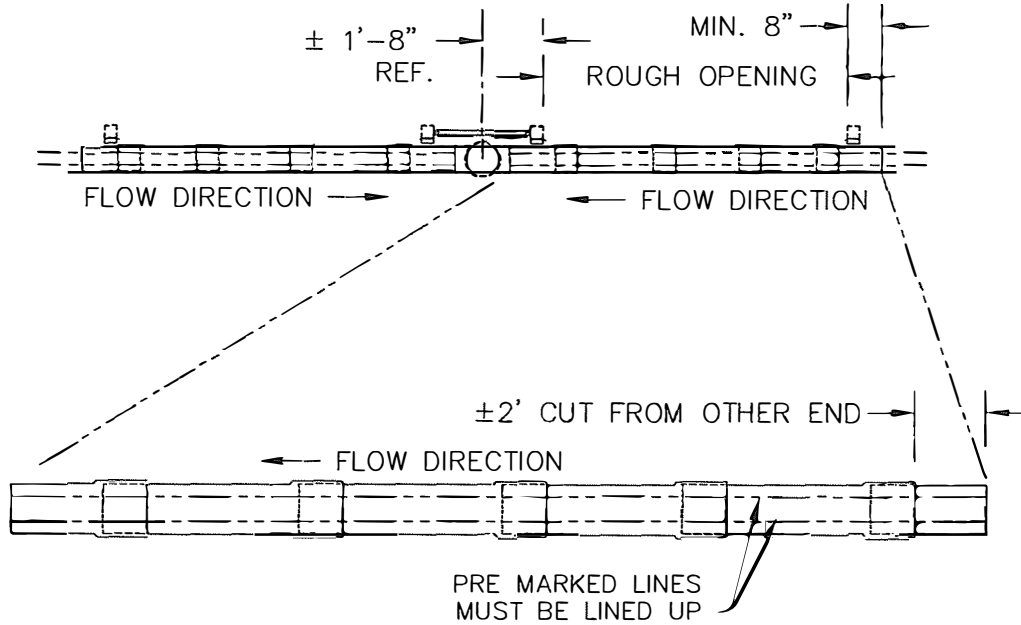




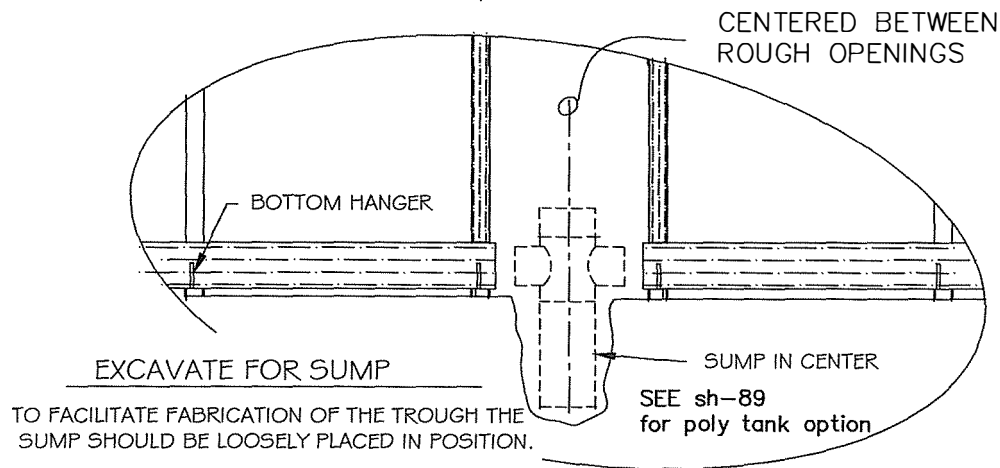
# GLUE 8" PIPE TROUGH AND EXCAVATE FOR CENTER SUMP. CENTER-FEED SPLIT PAD SYSTEM

DO NOT DISTURB GLUED PIPE  
 UNTIL GLUE HAS CURED.

A MINIMUM OF 6' EXTRA 8" PIPE PROVIDED



ONE SIDE OF TROUGH  
 OTHER SIDE MIRROR THIS SIDE



## INSTALL BACK PAD SUPPORT

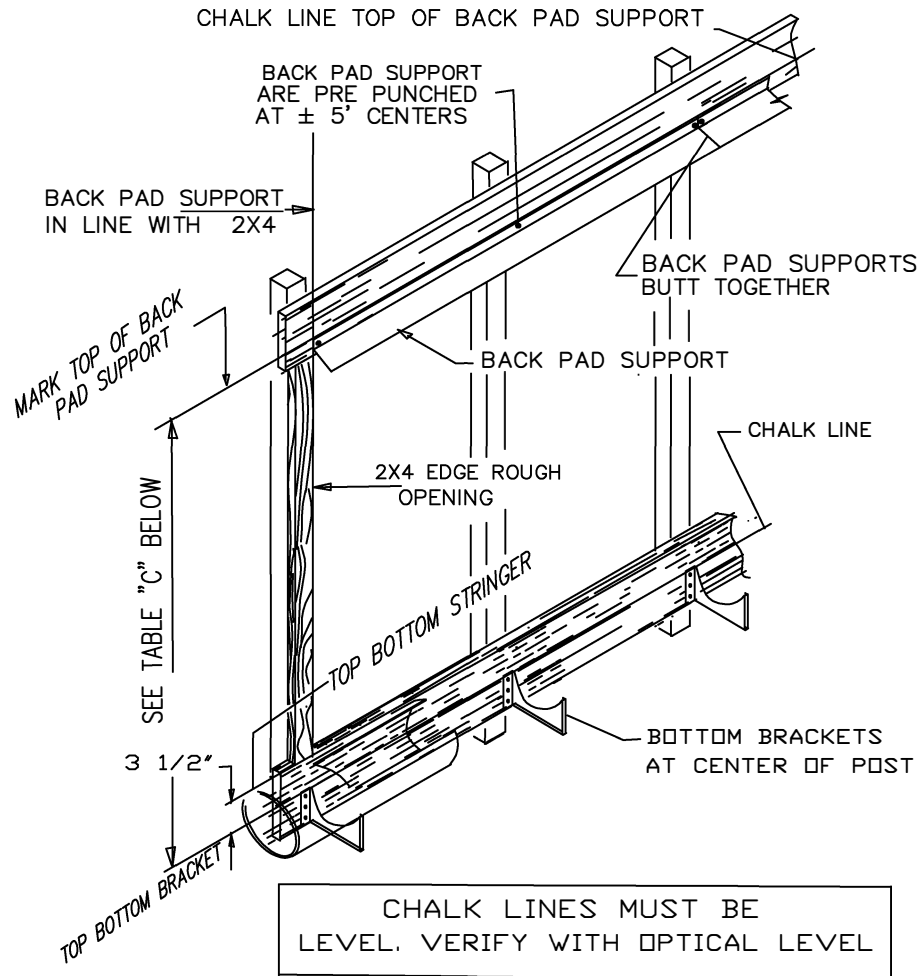
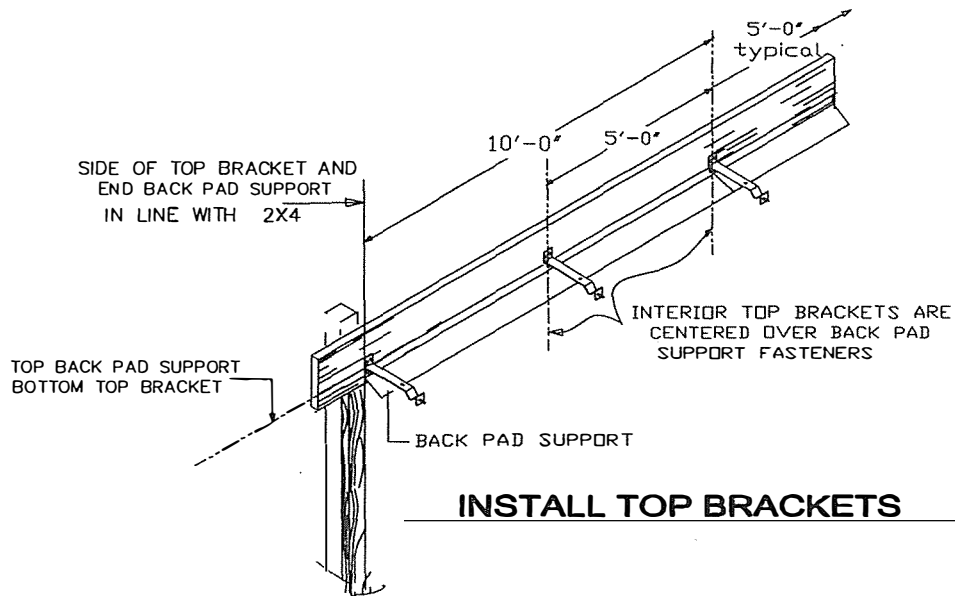
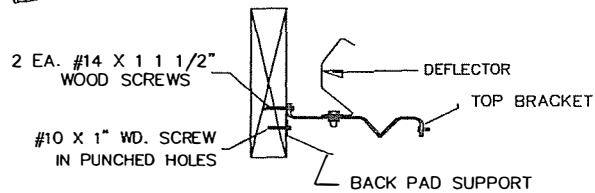


TABLE "C"

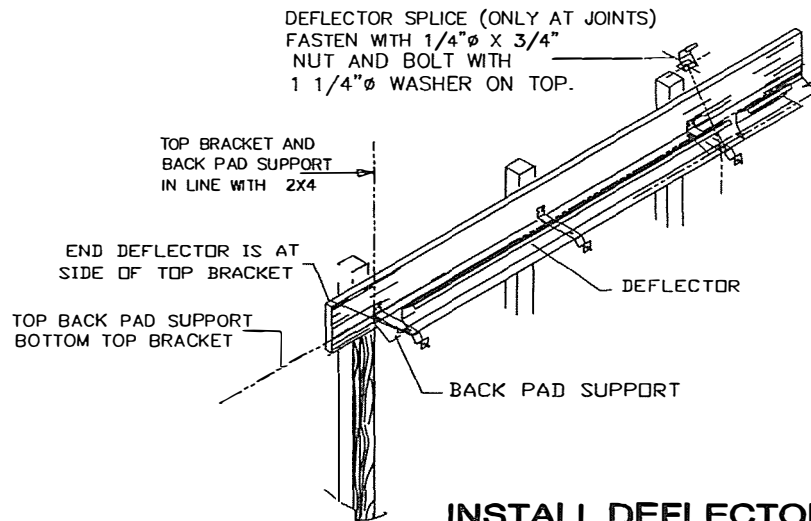
| PAD HEIGHT | DIMENSION BETWEEN TOP BOTTOM BRACKET AND TOP BACK PAD SUPPORT |         |
|------------|---------------------------------------------------------------|---------|
|            | IN FT. & IN.                                                  | INCHES  |
| 3' - 0"    | 3' - 3 1/2"                                                   | 39 1/2" |
| 4' - 0"    | 4' - 3 1/2"                                                   | 51 1/2" |
| 5' - 0"    | 5' - 3 1/2"                                                   | 63 1/2" |
| 6' - 0"    | 6' - 3 1/2"                                                   | 75 1/2" |



## INSTALL TOP BRACKETS



## END VIEW



## INSTALL DEFLECTOR

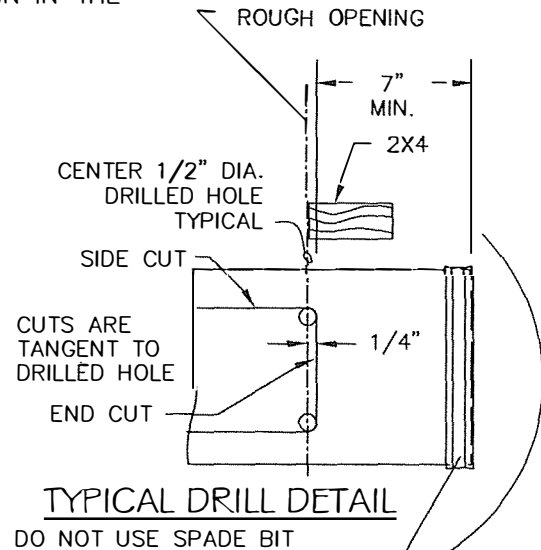
# TROUGH FABRICATION

## FOR CENTER- FEED SPLIT PAD SYSTEM

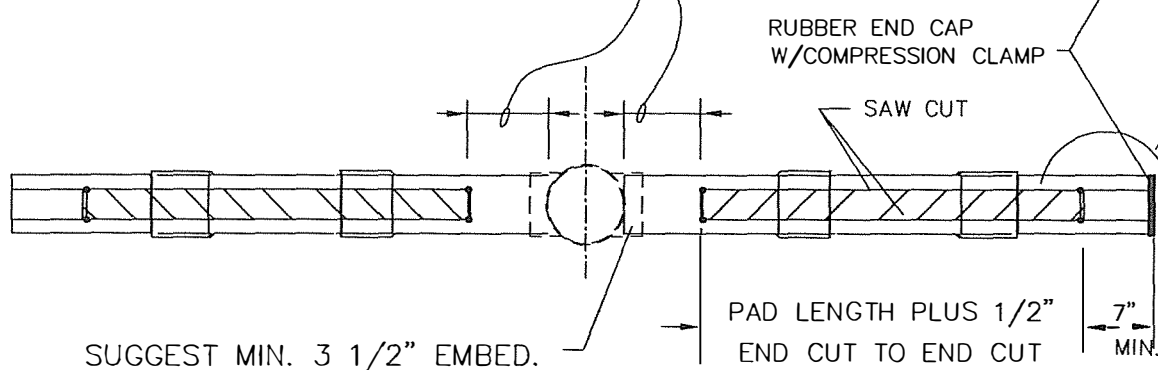
AFTER THE GLUE HAS DRIED PLACE THE ASSEMBLED PIPE ON THE BOTTOM BRACKETS EACH SIDE OF THE CENTER SUMP AND SLIDE THE PIPE AS REQUIRED TO MAKE SURE THE JOINS CLEAR THE BOTTOM BRACKETS. VERIFY A MINIMUM OF 7" PIPE EXTEND BEYOND THE ROUGH OPENINGS ON OUT SIDE EACH END. ALSO DOUBLE CHECK FLOW DIRECTION BEFORE LOCATING DRILL HOLES EACH CORNER. NOW DRILL 1/2" DIA. HOLES. SEE TYPICAL DRILL DETAIL.

NOW WITH THE HELP OF AN ASSISTANT START SIDE CUTS. USE A CIRCULAR SAW WITH PLYWOOD CUTTING BLADE. DO NOT ALLOW THE CUT SECTION TO SAG DOWN IN THE PIPE. WEDGE THE CUT SECTION AS REQUIRED. MAKE THE END CUTS LAST. DO NOT OVER CUT AT THE CORNERS.

Suggest Using Jig Saw to Cut Last Couple Inches at Corners



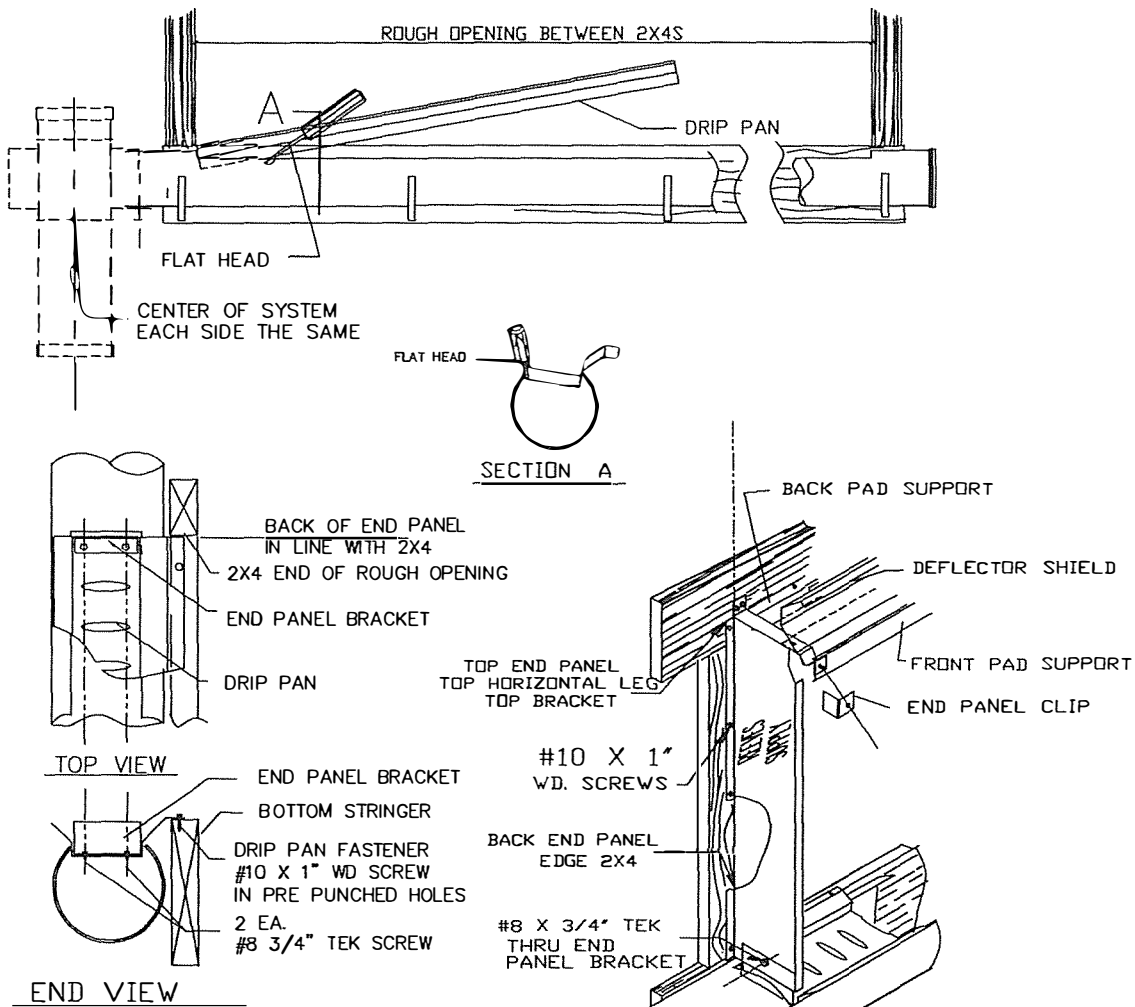
THIS LENGTH TO BE DETERMINED CONSIDERING SUMP DIAMETER AND DISTANCE BETWEEN ROUGH OPENINGS



## PLACE DRIP PAN IN TROUGH

THOROUGHLY CLEAN THE TROUGH BEFORE INSTALLING THE DRIP PAN.

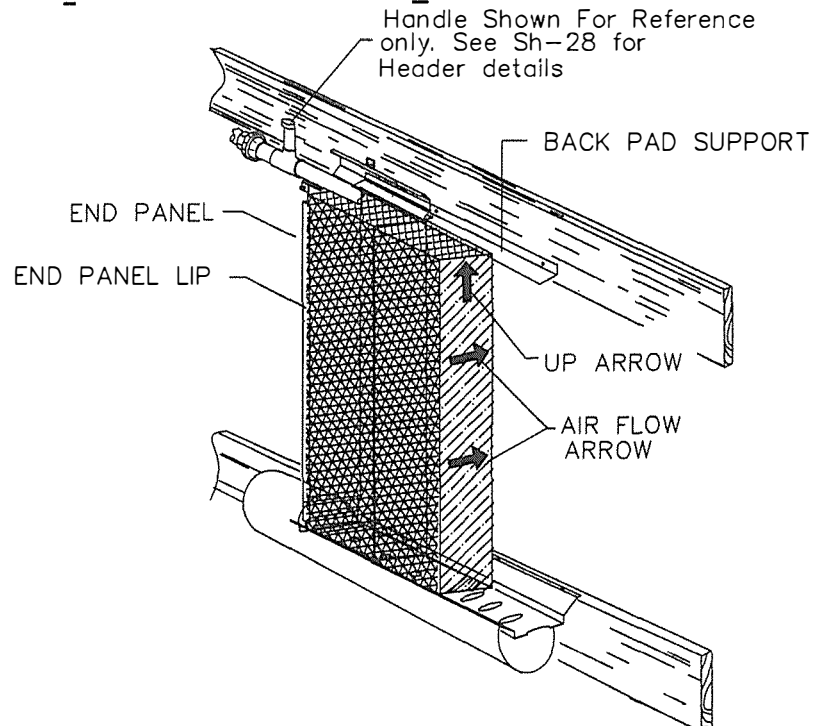
DUE TO THE TIGHT FIT OF DRIP PAN IN THE TROUGH PIPE THE OPENING WILL MOST LIKELY REQUIRE PRYING OPEN TO "WALK IN" THE DRIP PAN. TYPICALLY A FLAT HEAD SCREW DRIVER WEDGED BETWEEN PIPE AND PAN JUST AHEAD OF THE SEATED AREA WORKS WELL. SLIGHT ROTATION OF THE PAN HELPS SEE SECTION "A" BELOW.



## INSTALL END PANELS BRACKETS

## INSTALL END PANELS BOTH ENDS

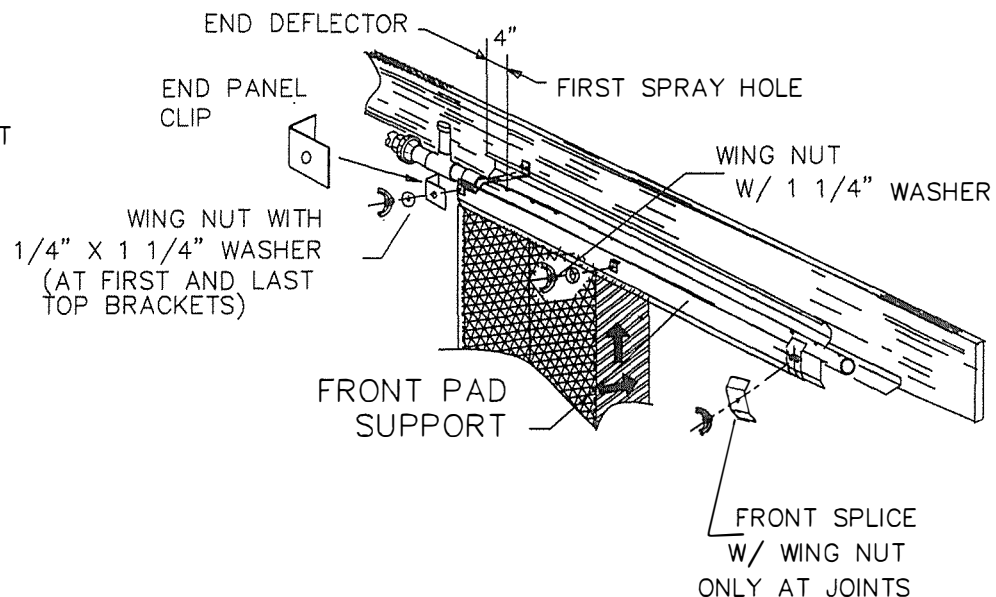
## INSTALL PADS



**NOTE:** SIDES OF PADS ARE COLORED AND MARKED WITH ARROWS TO SHOW CORRECT ORIENTATION OF PADS. MAKE SURE PADS ARE PLACED CORRECTLY.

"NEST THE FIRST PAD BEHIND LIP AGAINST THE END PANEL. INSTALL REMAINDER OF PADS TIGHTLY AGAINST THE PREVIOUSLY INSTALLED PAD. CONTINUE UNTIL THE NEXT TO LAST PAD HAS BEEN INSTALLED. IN ORDER TO INSTALL THE LAST PAD THE NEXT-TO-LAST PAD SHOULD BE SLID BEHIND FAR END PANEL LIP. THIS SHOULD PROVIDE SUFFICIENT CLEARANCE TO INSTALL THE LAST PAD.

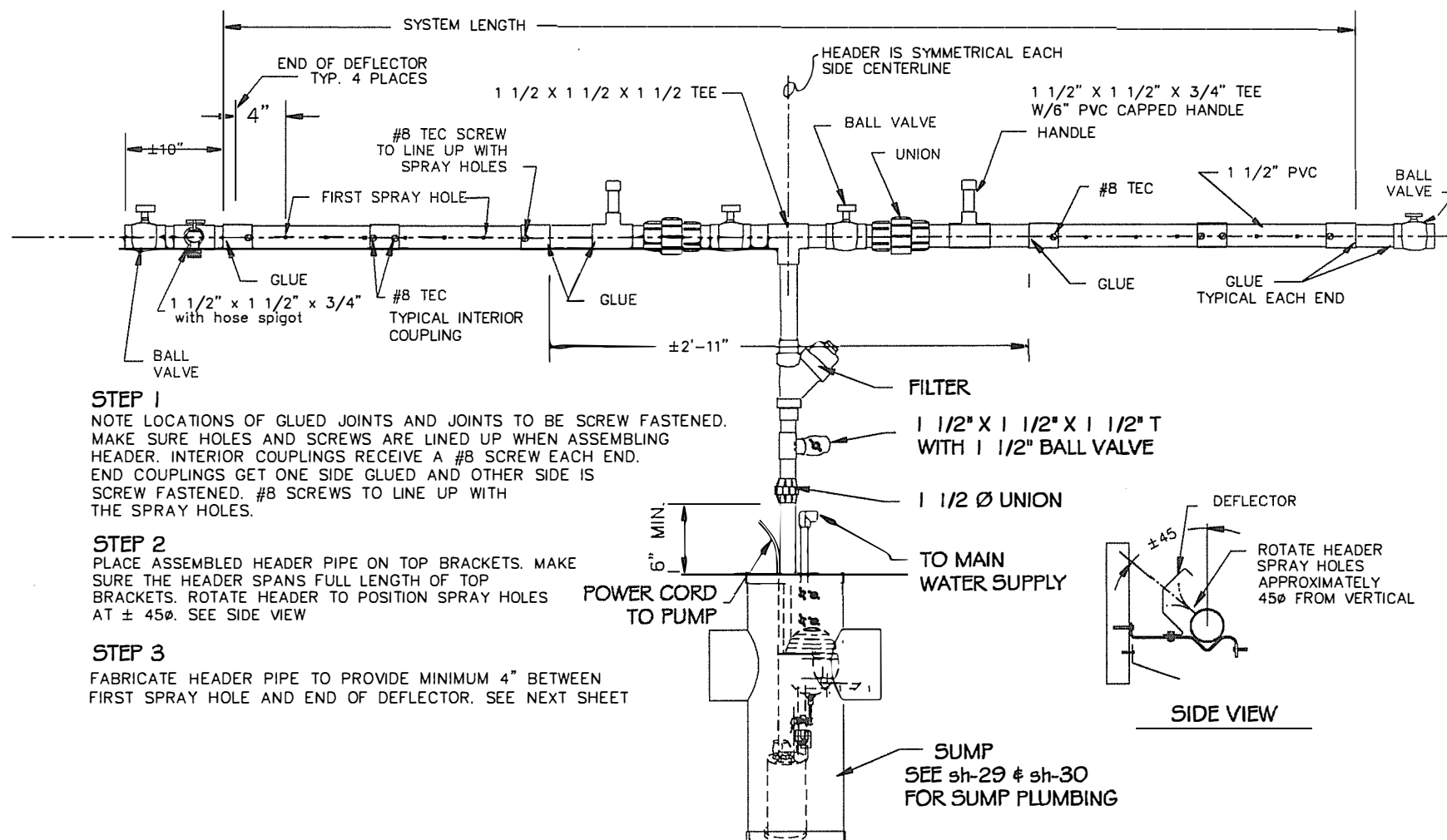
## INSTALL FRONT PAD SUPPORT



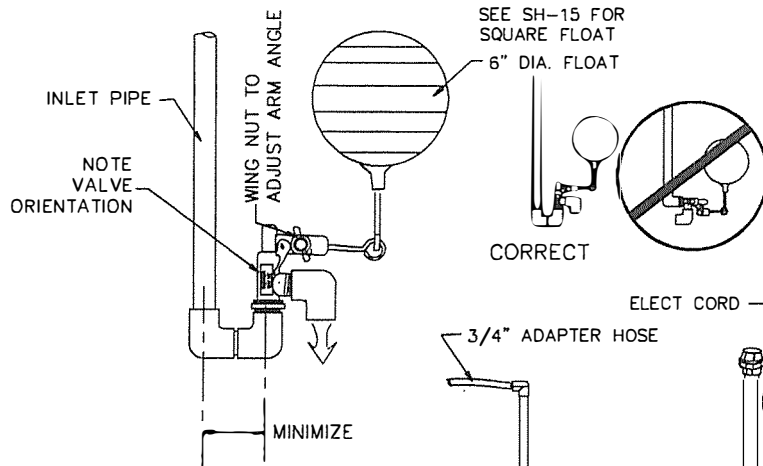
THE FRONT PANEL CAN BE INSTALLED AS PADS ARE PLACED OR AFTER ALL PADS HAVE BEEN INSTALLED.

**NOTE:** ON ALUMINUM SYSTEM PEEL OFF PVC COATING AND PLACE REEVES SUPPLY STICKER ON END PANEL

## CENTER FEED SPLIT PAD HEADER FABRICATION



# FLOAT VALVE ASSEMBLY PUMP ASSEMBLY

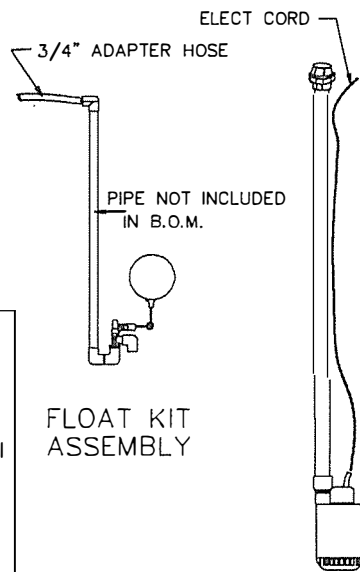


ENLARGED ASSEMBLY  
SEE NEXT SHEET FOR  
FLOAT VALVE ROTATION

2 (TWO) KITS PROVIDED  
Each Float Kit Includes

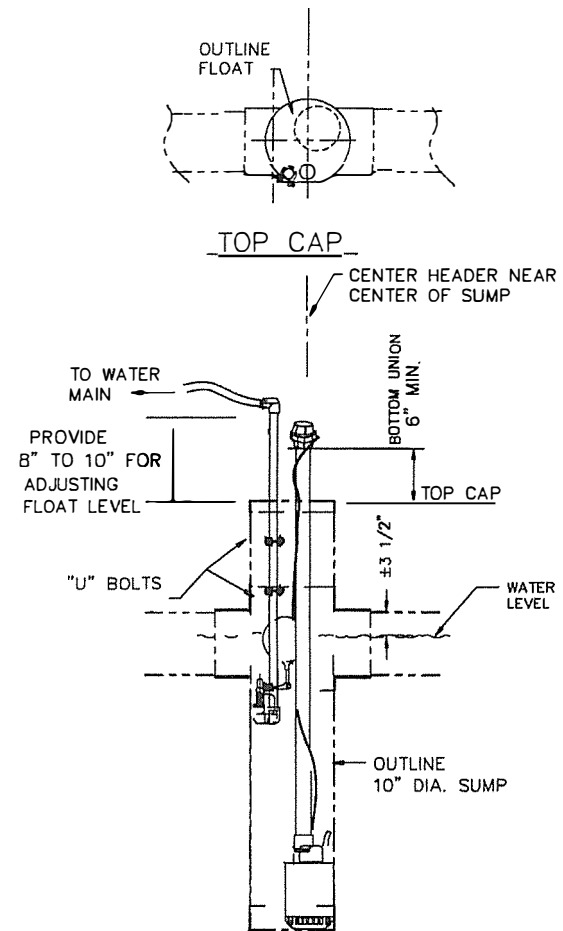
- 1-3/4" Float Valve
- 1-6" dia. Black Plastic Float Ball
- 2-90° Elbow SxS
- 2- 3/4" MGT Adapter Hose
- 2- U Bolts
- 4- Nylon Wing Nuts
- 2-1/4" Eye Bolts pre

\* 3/4 PVC Pipe not included



FLOAT KIT  
ASSEMBLY

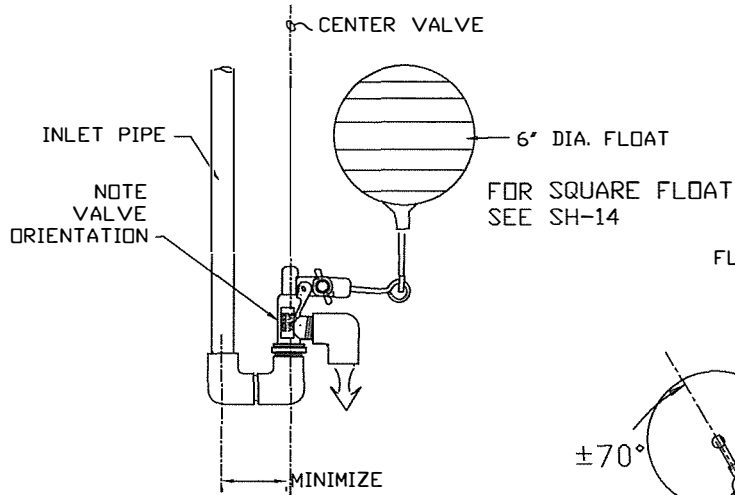
PUMP  
ASSEMBLY



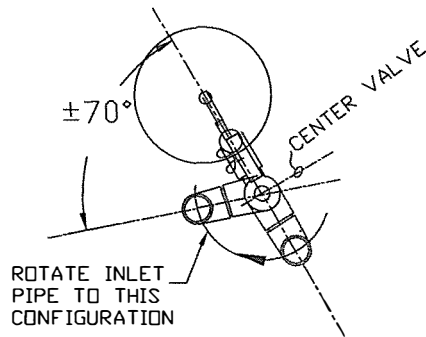
COMBINED ASSEMBLY  
SHOWN IN 10" SUMP

# FLOAT VALVE ASSEMBLY CONFIGURATION

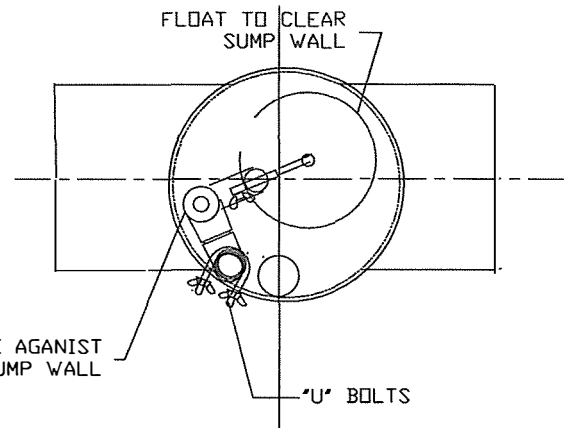
NOTE; THE VALVE SHOULD  
BE PLACED AGAINST THE  
SUMP WALL FOR IDEAL  
FLOAT VALE FUNCTIONING.



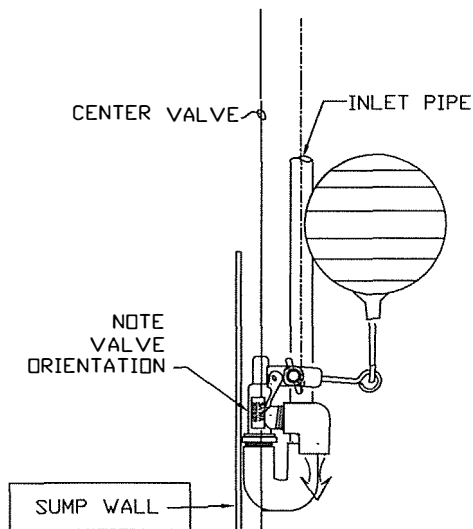
FLOAT VALVE ASSEMBLY  
BEFORE ROTATING



TOP VIEWS



TOP SUMP VIEWS

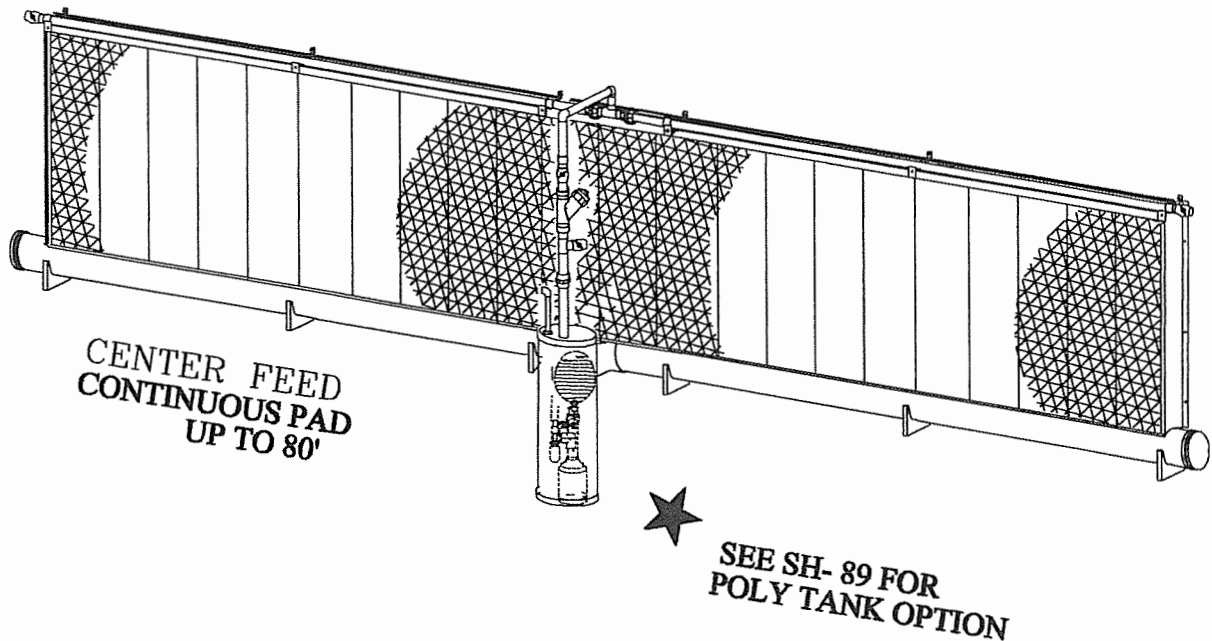


FLOAT VALVE ASSEMBLY  
MOST COMPACT  
MUST USE THIS ARRANGEMENT  
FOR 10" SUMP AND 10" CROSS SUMP

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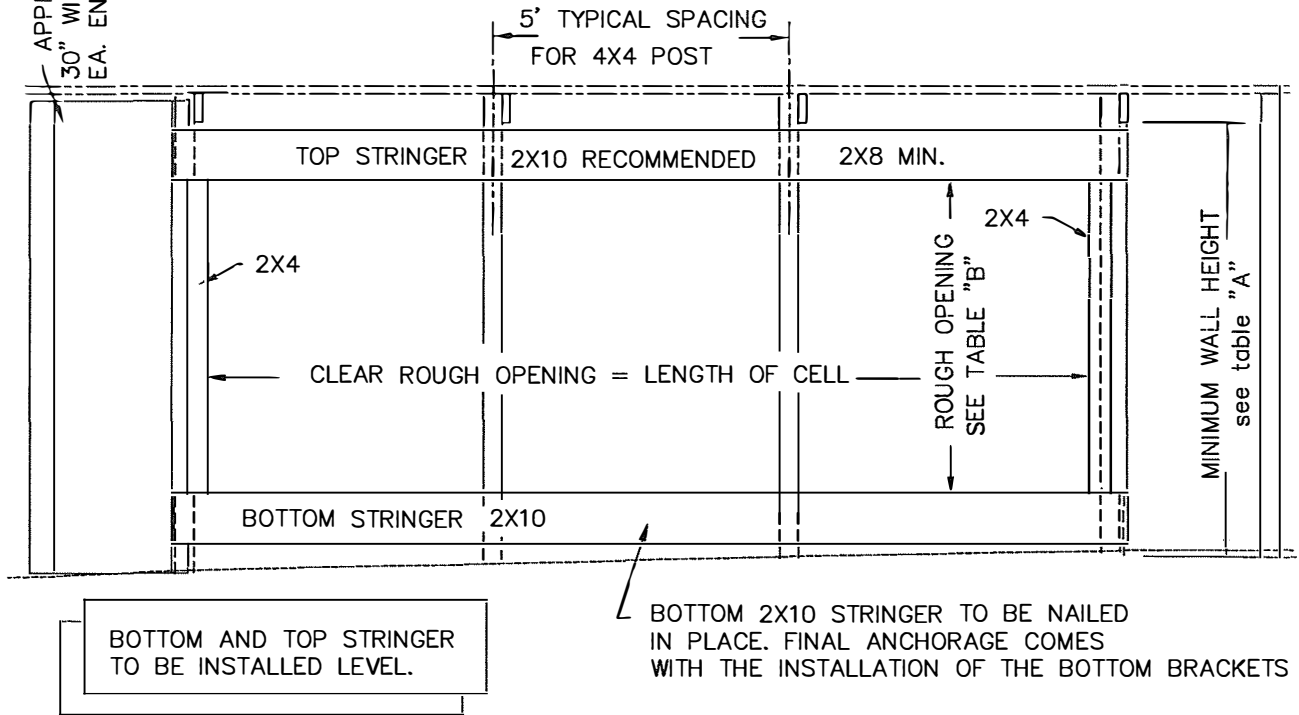
sheet no.

|                                                                           |    |
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| Square Float Valve Configurations -----                                   | 43 |



# TYPICAL FRAMING DETAILS

USE PRESSURE TREATED LUMBER



MINIMUM WALL HEIGHT  
PAD HEIGHT + 16" = "A"

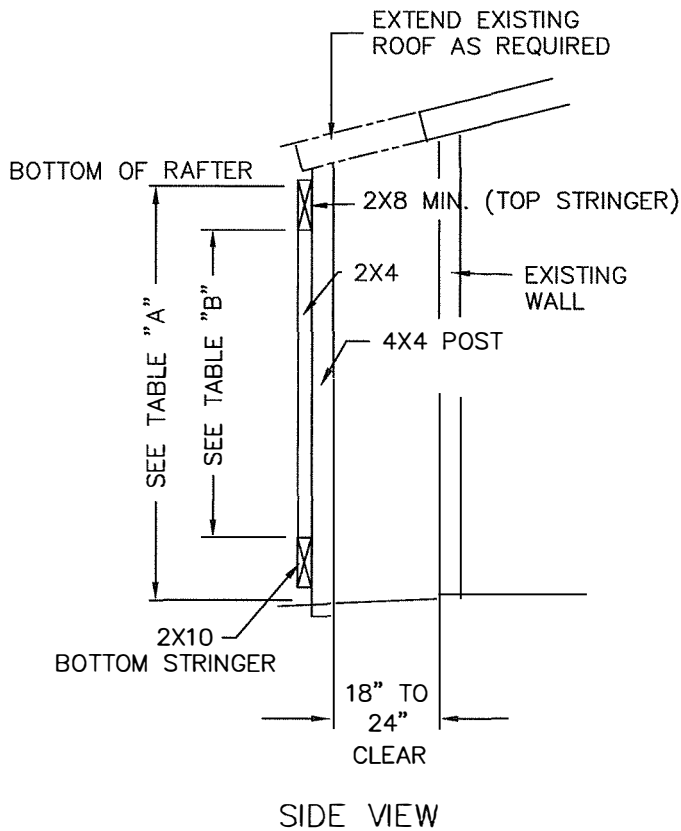
TABLE "A"

| PAD HEIGHT | OVERALL WALL HEIGHT |           |
|------------|---------------------|-----------|
|            | in FEET & IN        | in INCHES |
| 3' - 0"    | 4' - 4"             | 52"       |
| 4' - 0"    | 5' - 4"             | 64"       |
| 5' - 0"    | 6' - 4"             | 76"       |
| 6' - 0"    | 7' - 4"             | 88"       |

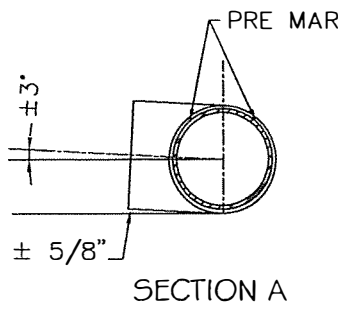
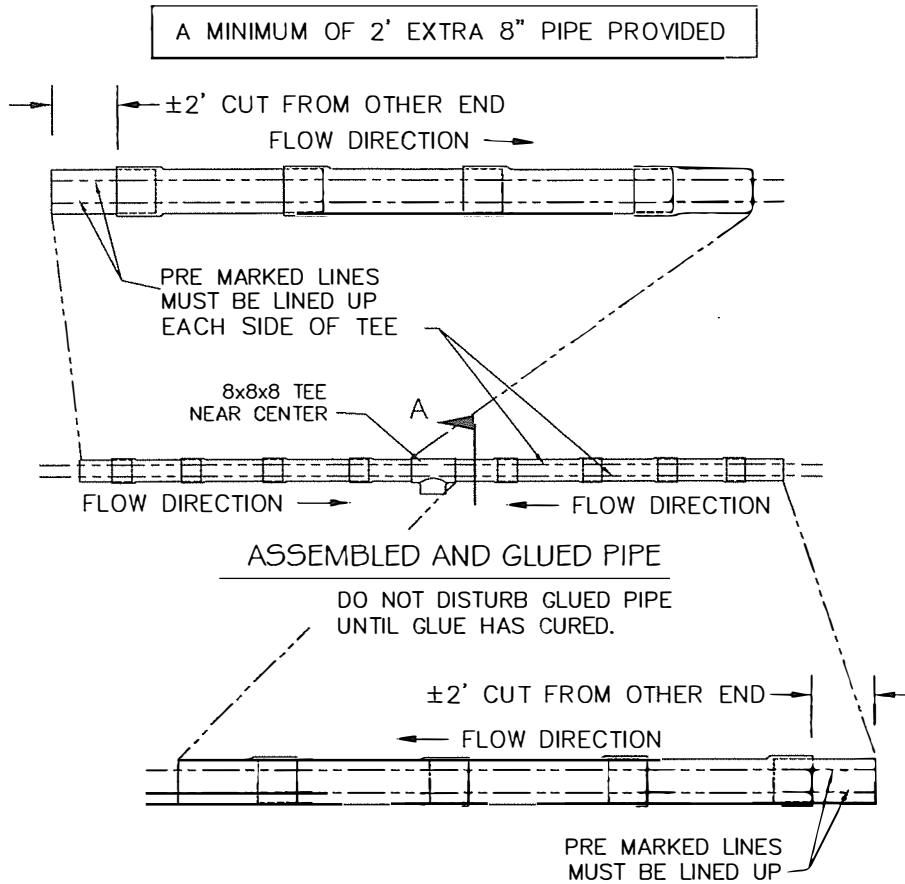
ROUGH OPENING HEIGHT  
PAD HEIGHT - 3" = "B"

TABLE "B"

| PAD HEIGHT | CLEAR BETWEEN 2X10 |           |
|------------|--------------------|-----------|
|            | in FEET & IN       | in INCHES |
| 3' - 0"    | 2' - 9"            | 33"       |
| 4' - 0"    | 3' - 9"            | 45"       |
| 5' - 0"    | 4' - 9"            | 57"       |
| 6' - 0"    | 5' - 9"            | 69"       |



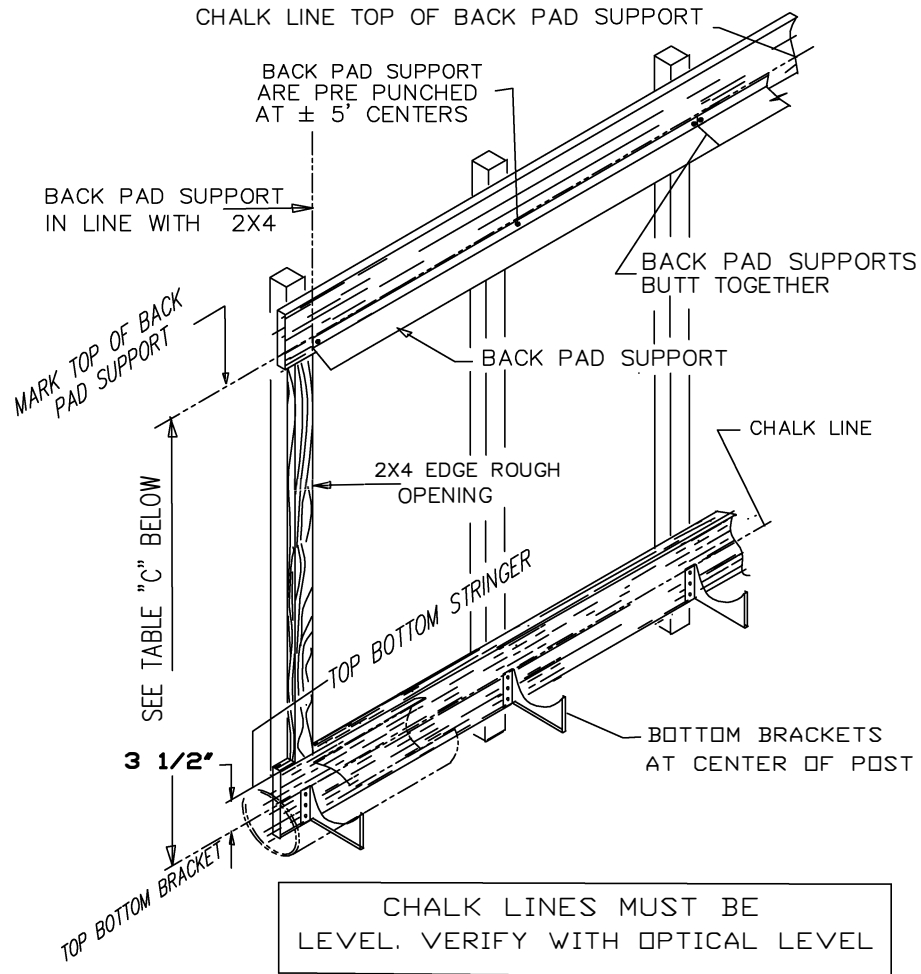
# GLUE 8" PIPE TROUGH CENTER-FEED CONTINUOUS PAD SYSTEM



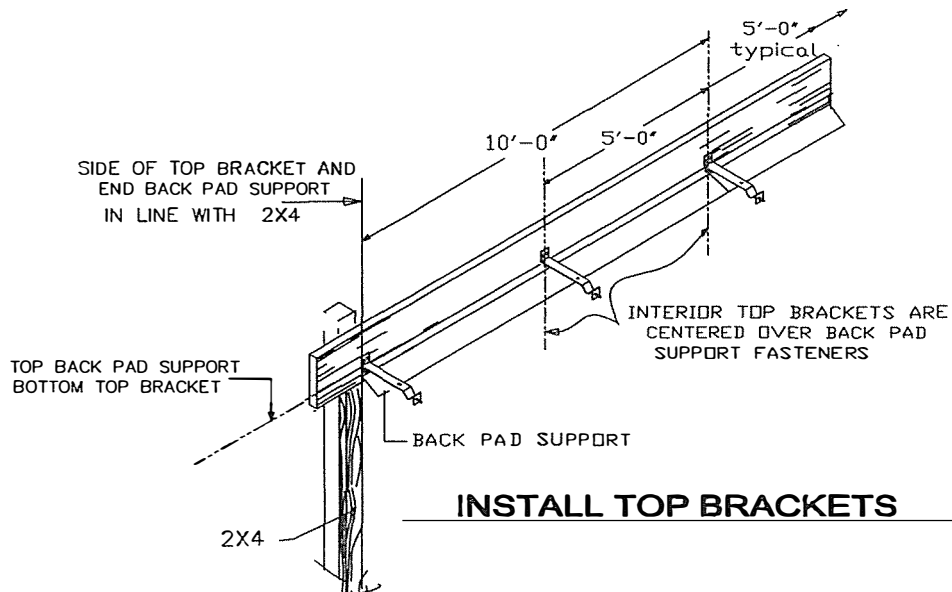
WHEN ASSEMBLING THE 8" PIPE WITH CENTER TEE THE TEE SHOULD BE ROTATED SLIGHTLY UPWARDS. THE REASON BEING THE DRIP PAN IS SLIGHTLY WIDER THAN THE CUT. WHEN THE DRIP PAN IS WORKED IN THE CUT OUT THE TEE WILL LEVEL OUT WHEN STREACHED OUT.

DO NOT ROTATE THE PIPE.  
ROTATE ONLY THE TEE.

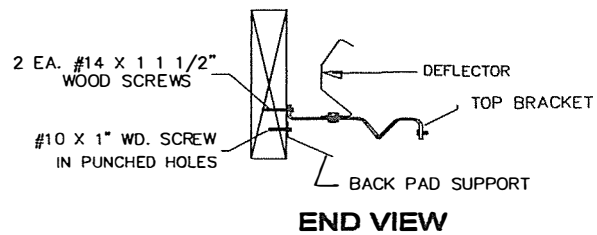
## INSTALL BACK PAD SUPPORT



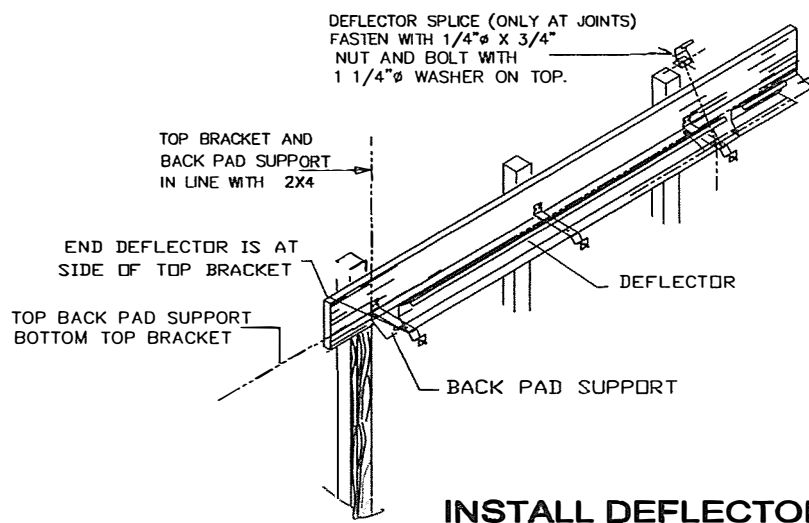
| TABLE "C"  |                                                               |         |
|------------|---------------------------------------------------------------|---------|
| PAD HEIGHT | DIMENSION BETWEEN TOP BOTTOM BRACKET AND TOP BACK PAD SUPPORT |         |
|            | IN FT. & IN.                                                  | INCHES  |
| 3' - 0"    | 3' - 3 1/2"                                                   | 39 1/2" |
| 4' - 0"    | 4' - 3 1/2"                                                   | 51 1/2" |
| 5' - 0"    | 5' - 3 1/2"                                                   | 63 1/2" |
| 6' - 0"    | 6' - 3 1/2"                                                   | 75 1/2" |



## INSTALL TOP BRACKETS



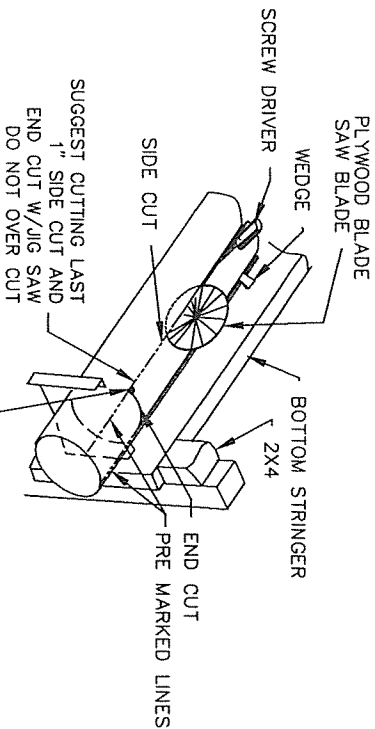
## END VIEW



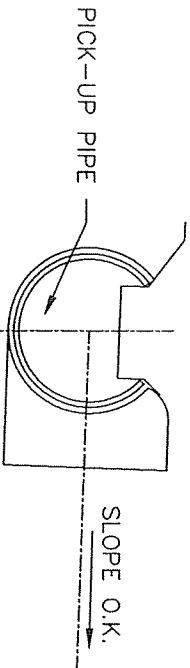
## INSTALL DEFLECTOR

# TROUGH FABRICATION DETAILS

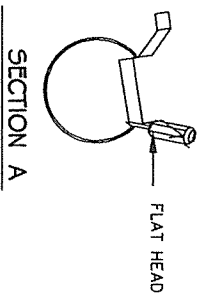
## TROUGH CUTTING TECHNIQUES



### PIPE SECTION AT TEE BEFORE DRIP PAN

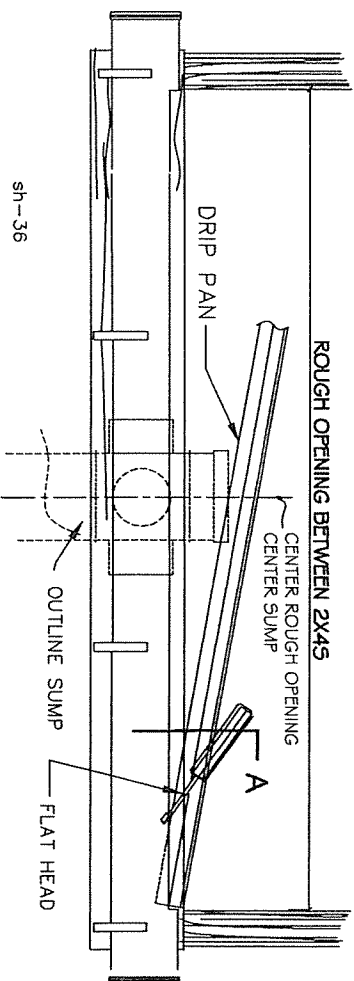


AFTER PICK-UP PIPE AND PAN HAVE BEEN  
INSTALLED A SLIGHT DOWNWARD SLOPE OF TEE  
AND PICK-UP LINE IS O.K.



## PLACE DRIP PAN IN TROUGH

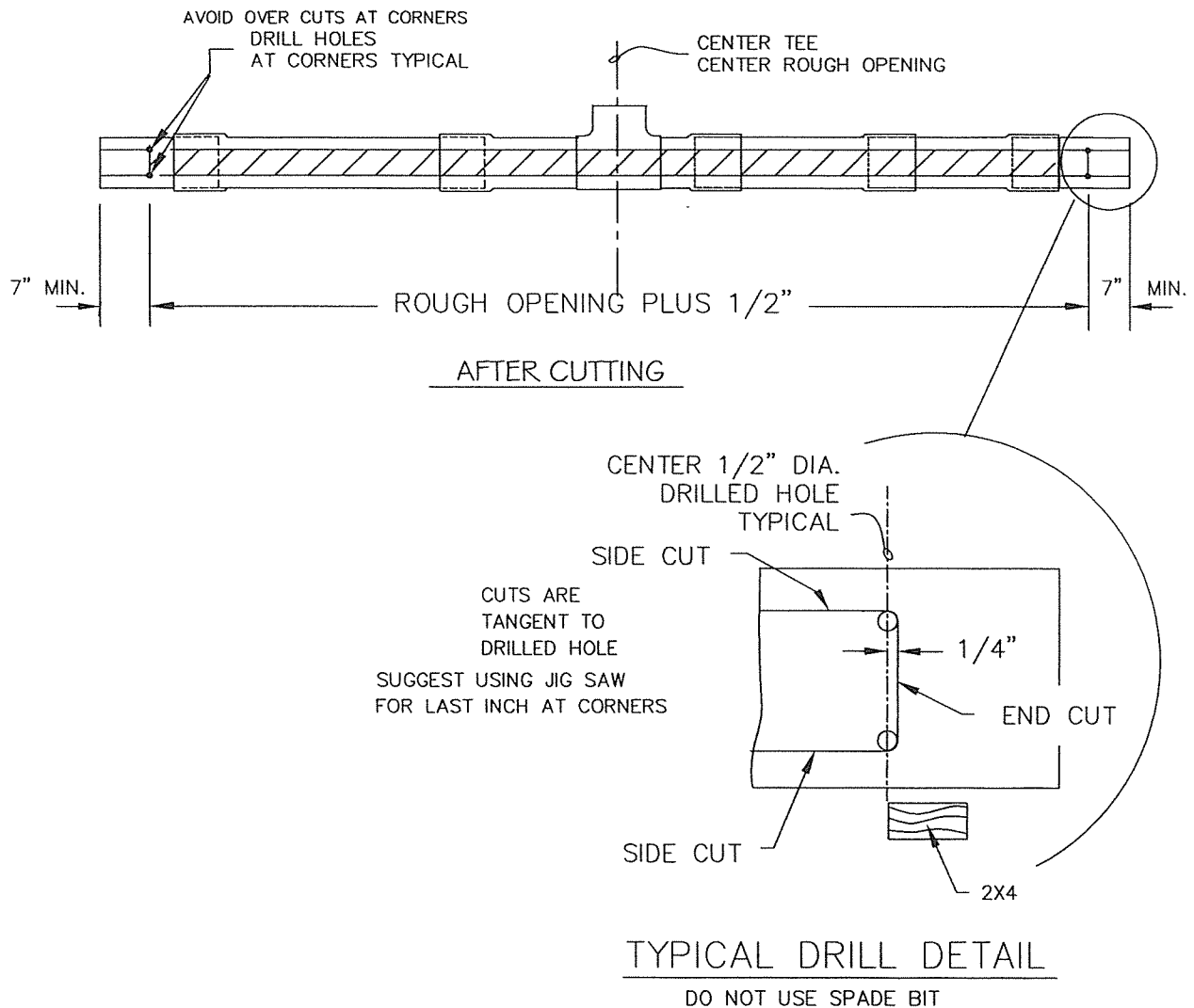
THOROUGHLY CLEAN THE TROUGH BEFORE INSTALLING THE DRIP PAN,  
DUE TO THE TIGHT FIT OF DRIP PAN IN THE TROUGH PIPE  
THE OPENING WILL MOST LIKELY REQUIRE PRYING OPEN TO "WALK IN"  
THE DRIP PAN. TYPICALLY A FLAT HEAD SCREW DRIVER WEDGED BETWEEN  
PIPE AND PAN JUST AHEAD OF THE SEATED AREA WORKS WELL. SLIGHT  
ROTATION OF THE PAN HELPS SEE SECTION "A" BELOW.



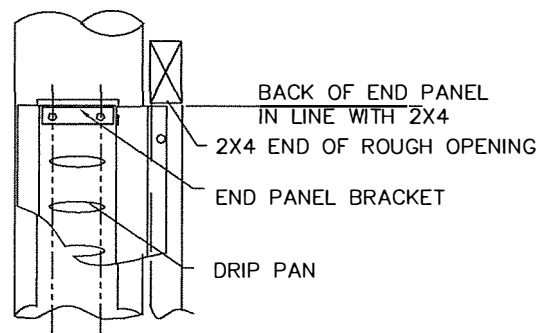
## CUT PIPE FOR DRIP PAN FOR CONTINUOUS PAD SYSTEMS

SEE SH-36 BEFORE CUTTING PIPE

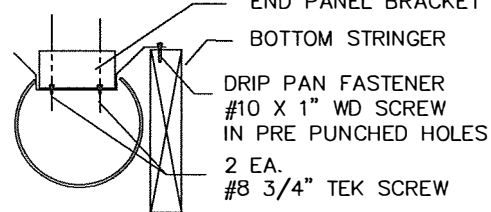
AFTER THE GLUE HAS DRIED PLACE THE ASSEMBLED  
PIPE ON THE BOTTOM BRACKETS AND SLIDE ASSEMBLY  
AS REQUIRED TO MAKE SURE THE JOINTS CLEAR THE BOTTOM BRACKETS.  
NOW LOCATE THE 4 CORNERS OF CUT OUT. DRILL 1/2" DIA.  
HOLES AT CORNERS. MAKE SURE EDGE OF HOLES ARE TANGENT  
TO SIDE CUTS AND END CUTS. SEE TYPICAL DRILL DETAIL BELOW.



Reeves Supply Co. 1-888 854 5221  
130 Dickerson Road Franklin Georgia 30217

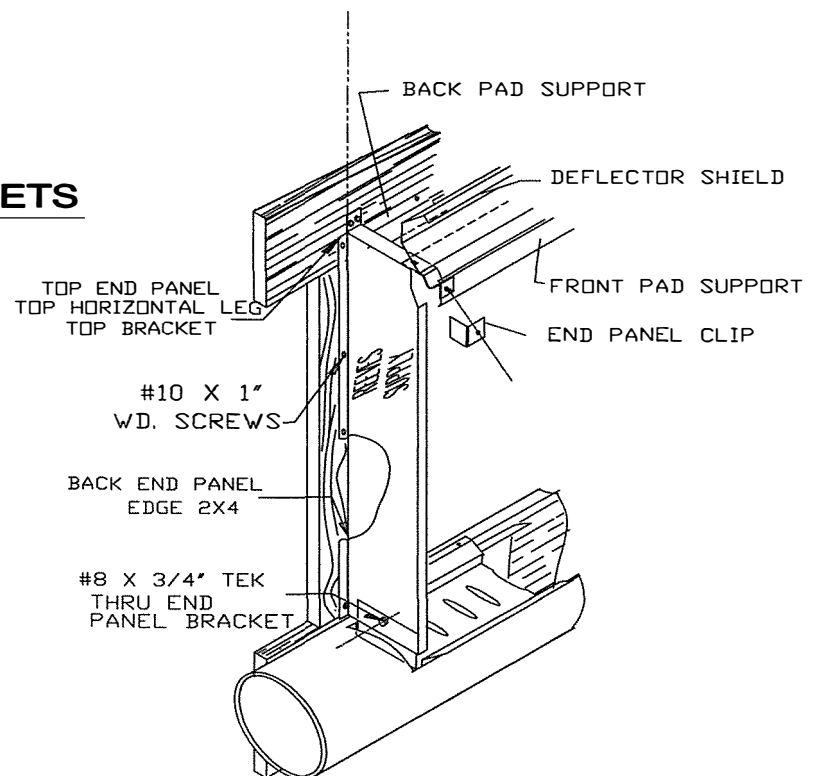


TOP VIEW



END VIEW

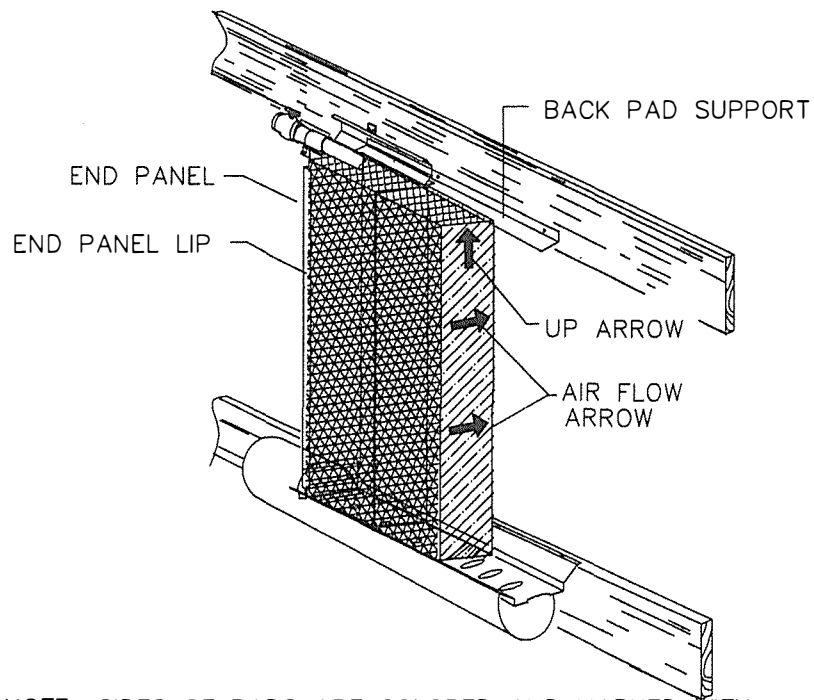
## INSTALL END PANELS BRACKETS



## INSTALL END PANELS

BOTH ENDS

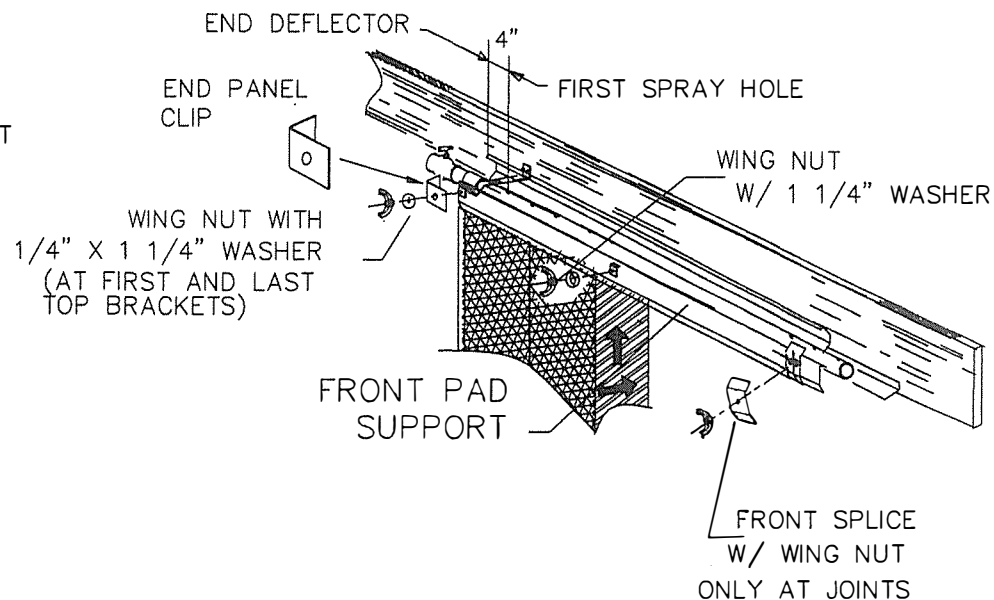
## INSTALL PADS



**NOTE:** SIDES OF PADS ARE COLORED AND MARKED WITH ARROWS TO SHOW CORRECT ORIENTATION OF PADS. MAKE SURE PADS ARE PLACED CORRECTLY.

"NEST THE FIRST PAD BEHIND LIP AGAINST THE END PANEL. INSTALL REMAINDER OF PADS TIGHTLY AGAINST THE PREVIOUSLY INSTALLED PAD. CONTINUE UNTIL THE NEXT TO LAST PAD HAS BEEN INSTALLED. IN ORDER TO INSTALL THE LAST PAD THE NEXT-TO-LAST PAD SHOULD BE SLID BEHIND FAR END PANEL LIP. THIS SHOULD PROVIDE SUFFICIENT CLEARANCE TO INSTALL THE LAST PAD.

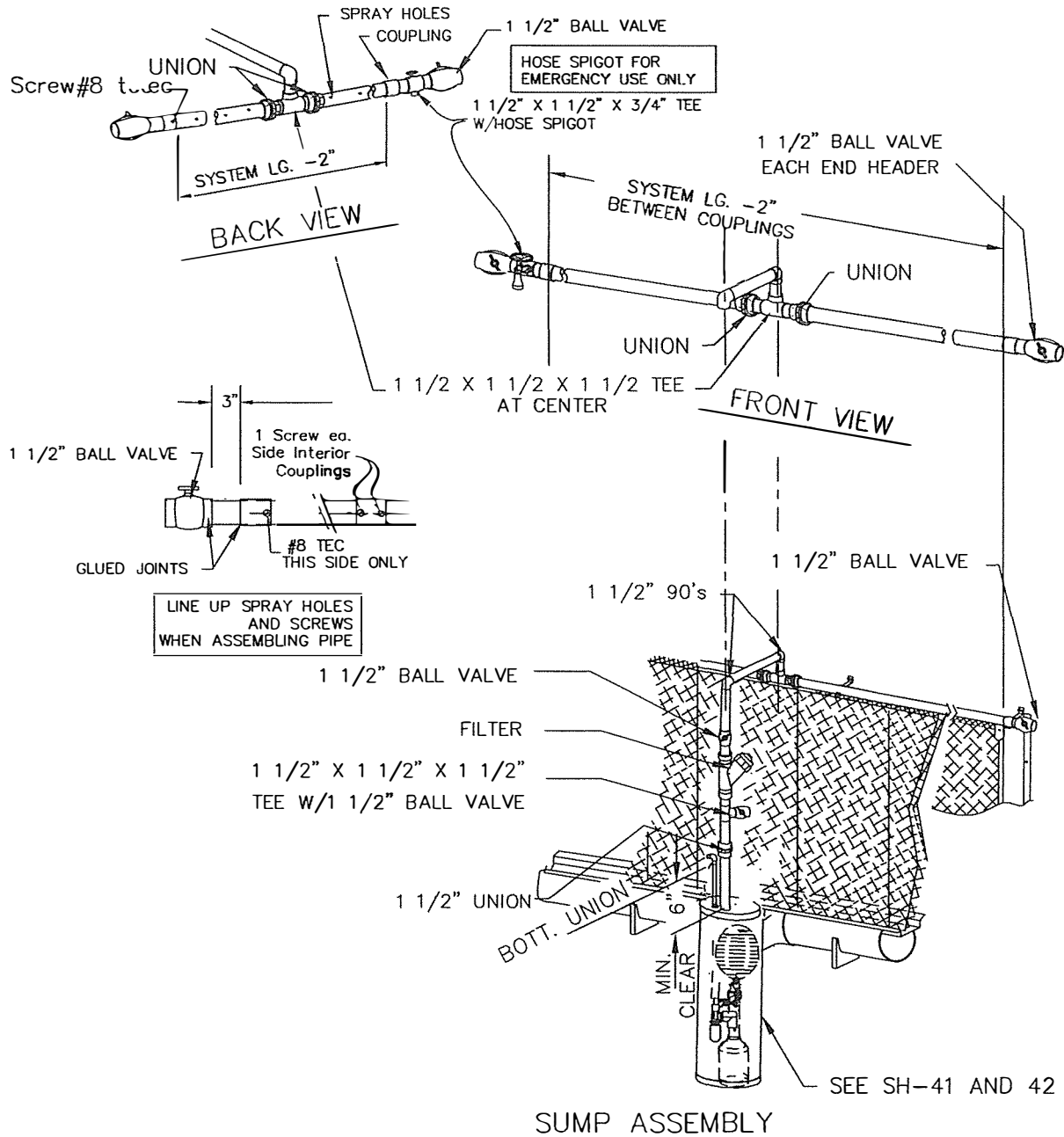
## INSTALL FRONT PAD SUPPORT



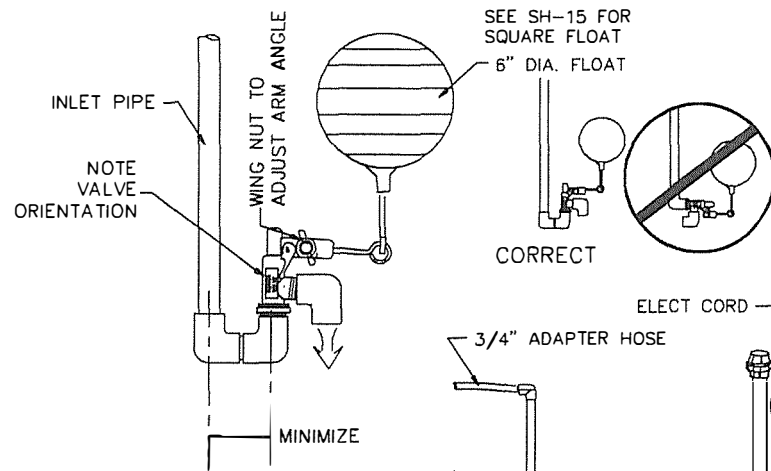
THE FRONT PANEL CAN BE INSTALLED AS PADS ARE PLACED OR AFTER ALL PADS HAVE BEEN INSTALLED.

**NOTE;** ON ALUMINUM SYSTEM PEEL OFF PVC COATING AND PLACE REEVES SUPPLY STICKER ON END PANEL

# HEADER PIPE FOR CENTER FEED CONTINUOUS PAD



# FLOAT VALVE ASSEMBLY PUMP ASSEMBLY

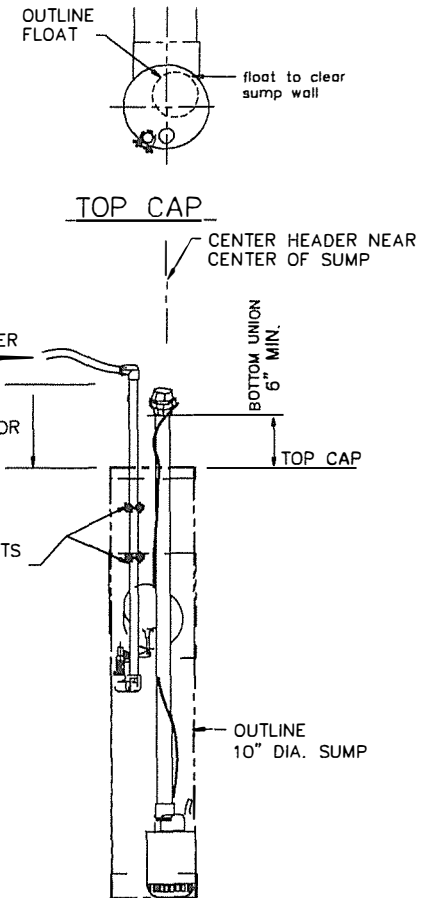
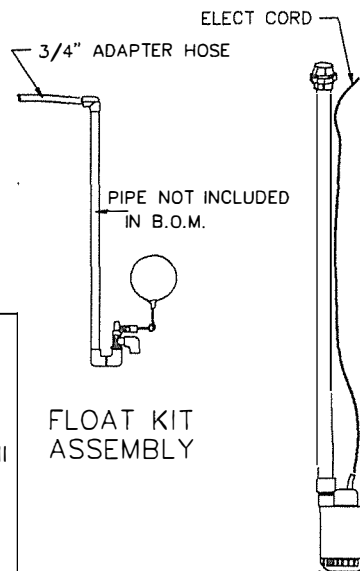


ENLARGED ASSEMBLY  
SEE NEXT SHEET FOR  
FLOAT VALVE ROTATION

2 (TWO) KITS PROVIDED  
Each Float Kit Includes

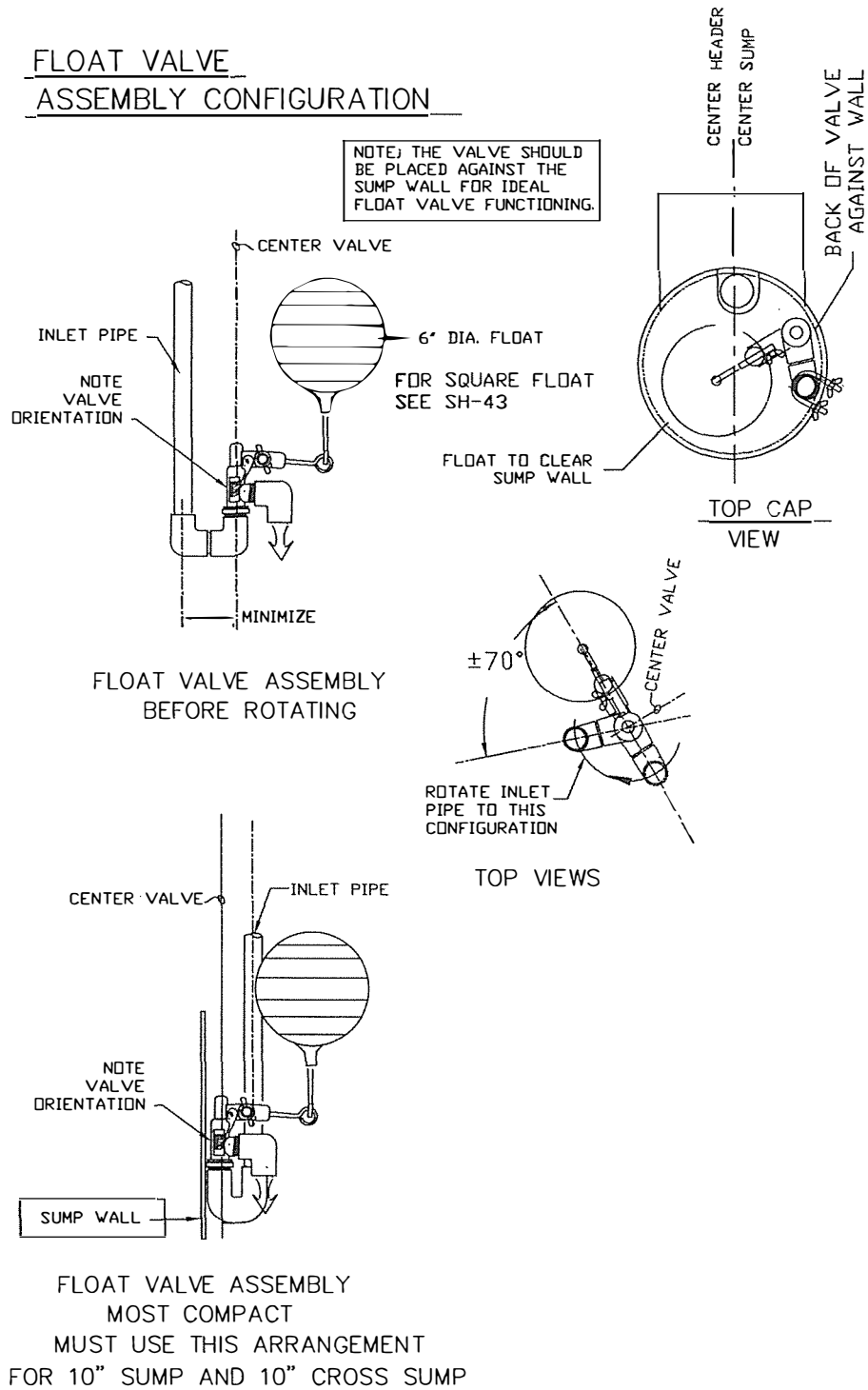
- 1-3/4" Float Valve
- 1-6" dia. Black Plastic Float Ball
- 2-90° Elbow SxS
- 2- 3/4" MGT Adapter Hose
- 2- U Bolts
- 4- Nylon Wing Nuts
- 2-1/4" Eye Bolts pre

\* 3/4 PVC Pipe not included

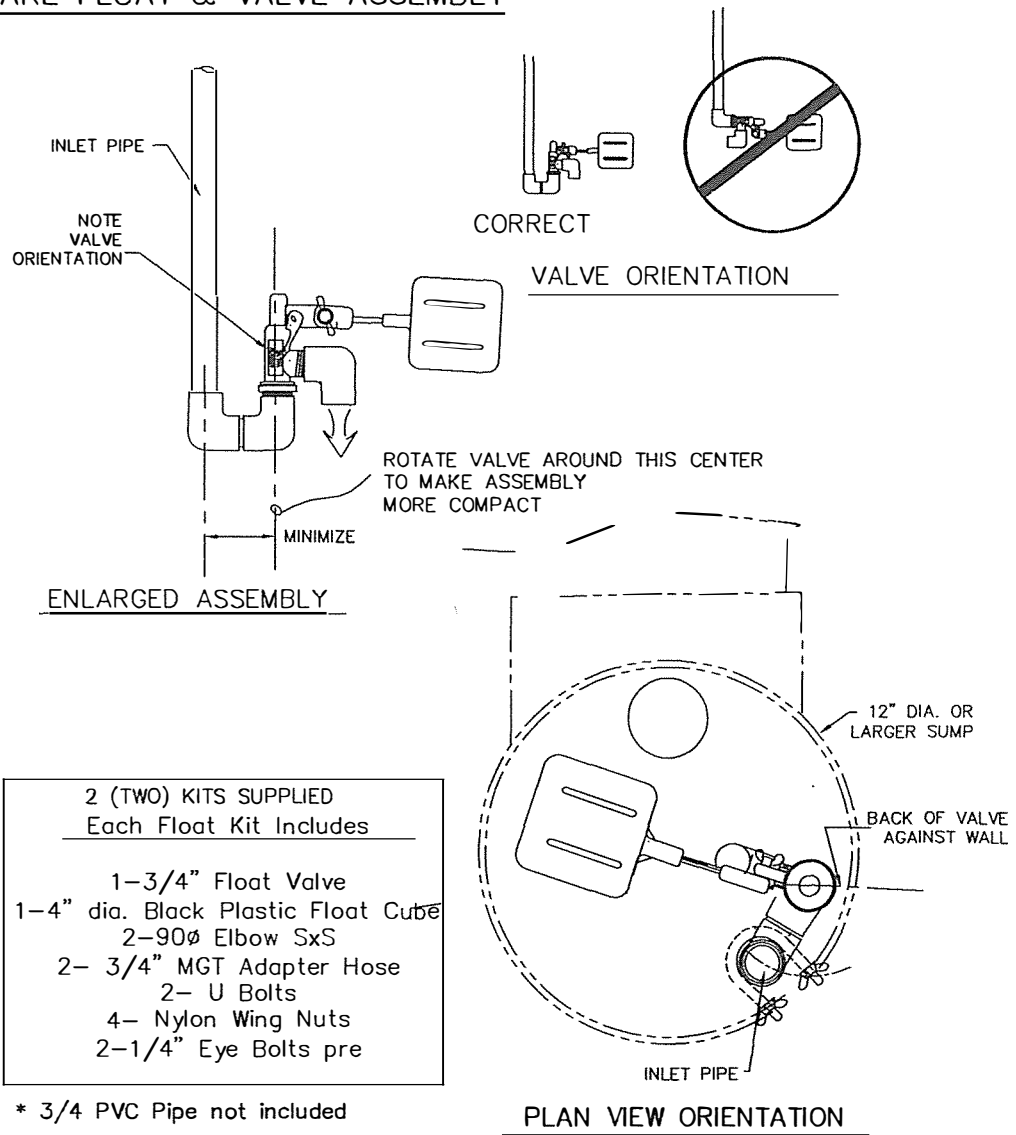


COMBINED ASSEMBLY  
SHOWN IN 10" SUMP

# FLOAT VALVE ASSEMBLY CONFIGURATION

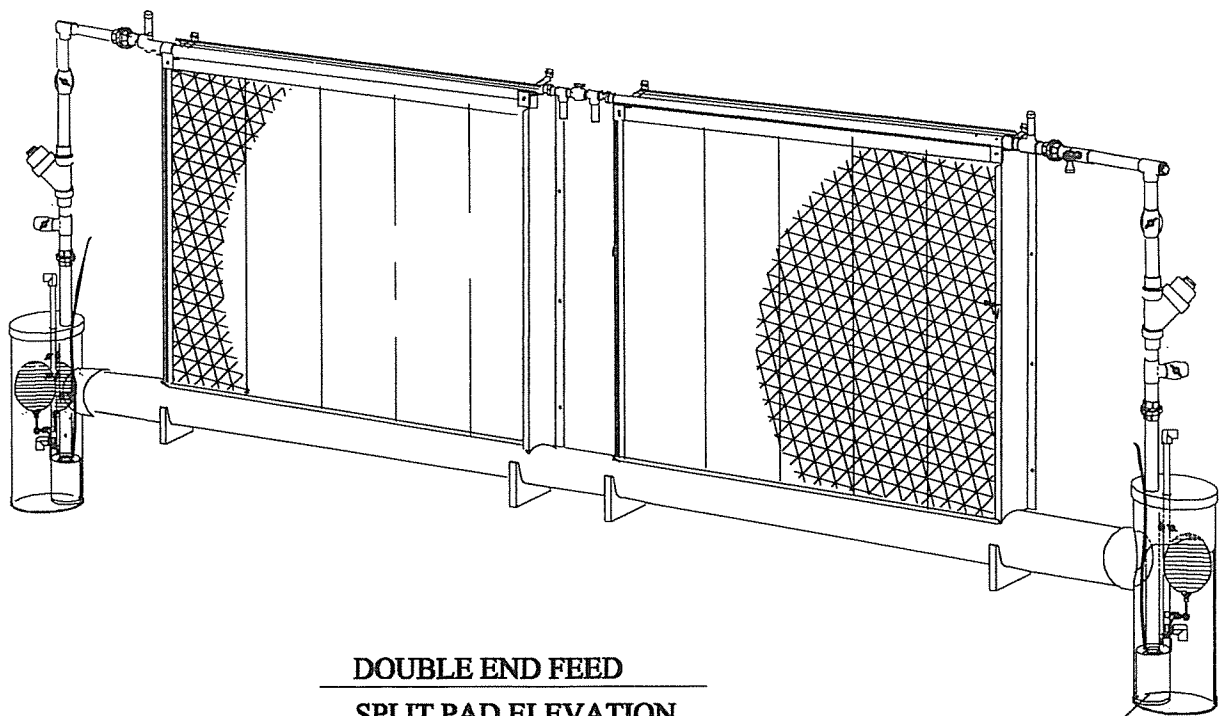


## SQUARE FLOAT & VALVE ASSEMBLY



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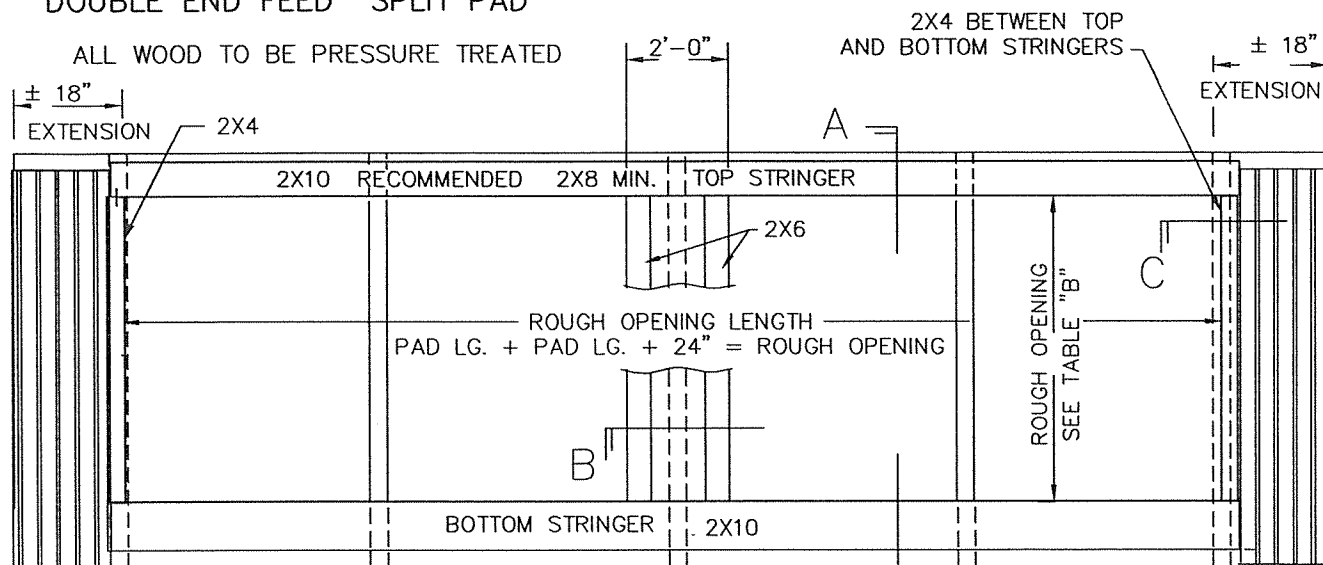
**DOUBLE END FEED**  
**SPLIT PAD ELEVATION**

80' TO 160'

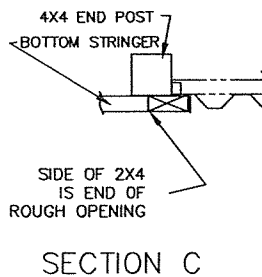
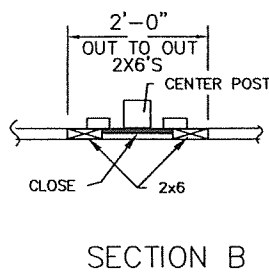
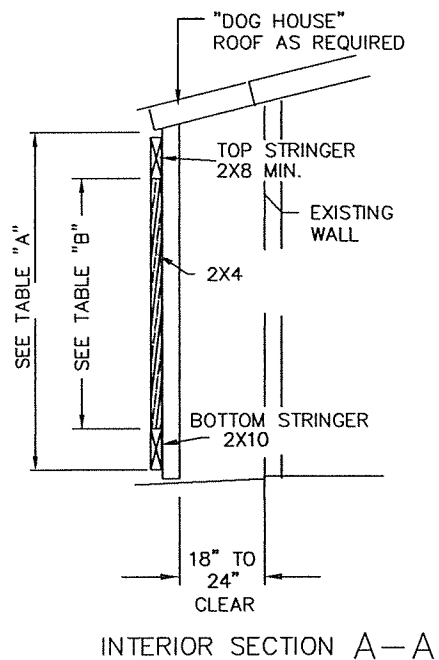
SEE sh-85 for  
POLY TANK option

# FRAMING ELEVATION & SECTIONS

## DOUBLE END FEED SPLIT PAD



BOTTOM 2X10 STRINGER TO BE NAILED IN PLACE INITIALLY. FINAL ANCHORAGE COMES WITH THE INSTALLATION OF THE BOTTOM BRACKETS



MINIMUM WALL HEIGHT  
PAD HEIGHT + 16" = "A"

| PAD HEIGHT | TABLE "A"<br>OVERALL WALL HEIGHT |           |
|------------|----------------------------------|-----------|
|            | in FEET & IN                     | in INCHES |
| 3'-0"      | 4'-4"                            | 52"       |
| 4'-0"      | 5'-4"                            | 64"       |
| 5'-0"      | 6'-4"                            | 76"       |
| 6'-0"      | 7'-4"                            | 88"       |

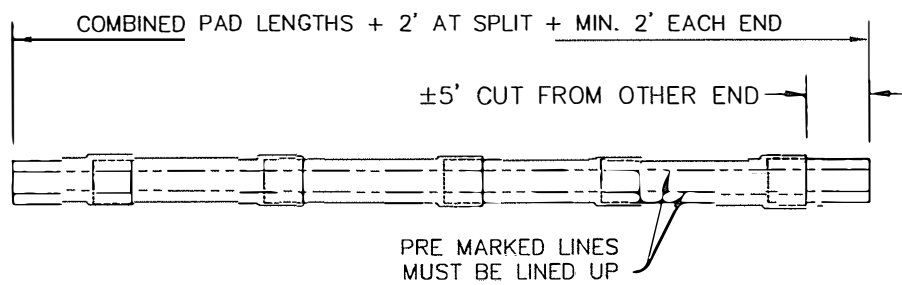
ROUGH OPENING HEIGHT  
PAD HEIGHT - 3" = "B"

| PAD HEIGHT | TABLE "B"<br>CLEAR BETWEEN 2X10 |           |
|------------|---------------------------------|-----------|
|            | in FEET & IN                    | in INCHES |
| 3'-0"      | 2'-9"                           | 33"       |
| 4'-0"      | 3'-9"                           | 45"       |
| 5'-0"      | 4'-9"                           | 57"       |
| 6'-0"      | 5'-9"                           | 69"       |

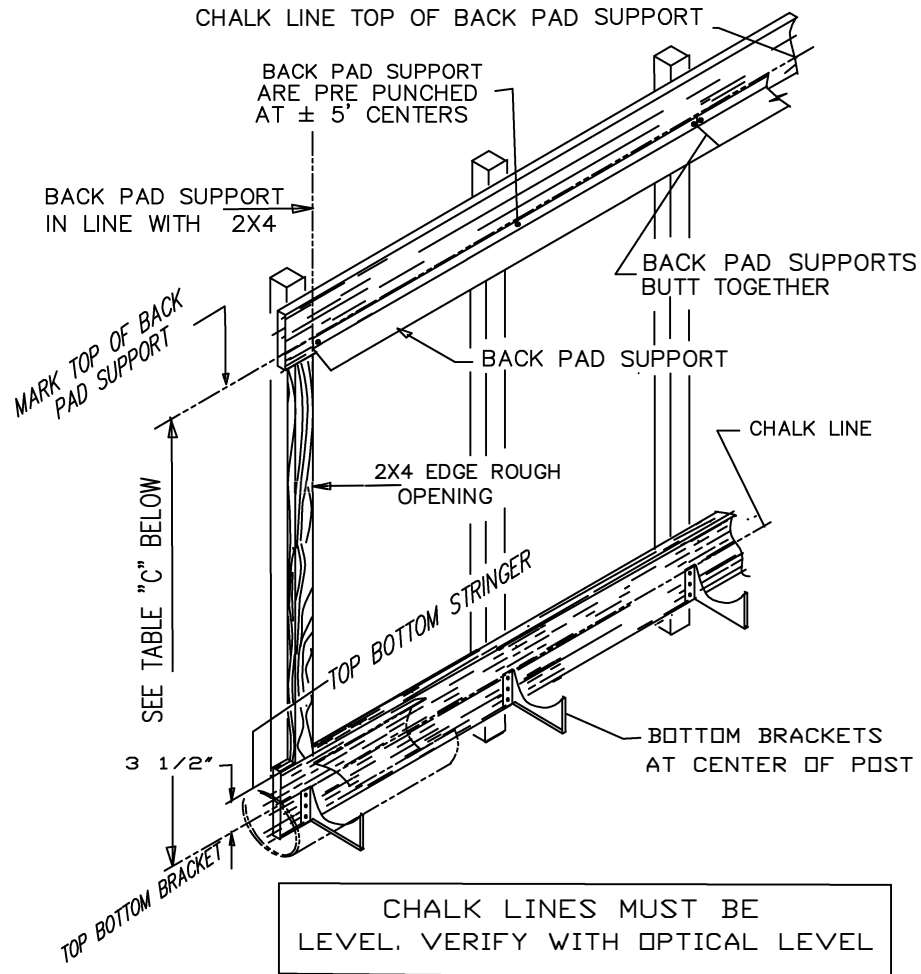
## GLUE 8" TROUGH FOR DOUBLE END FEED SPLIT PAD SYSTEM

DO NOT DISTURB GLUED PIPE  
UNTIL GLUE HAS CURED.

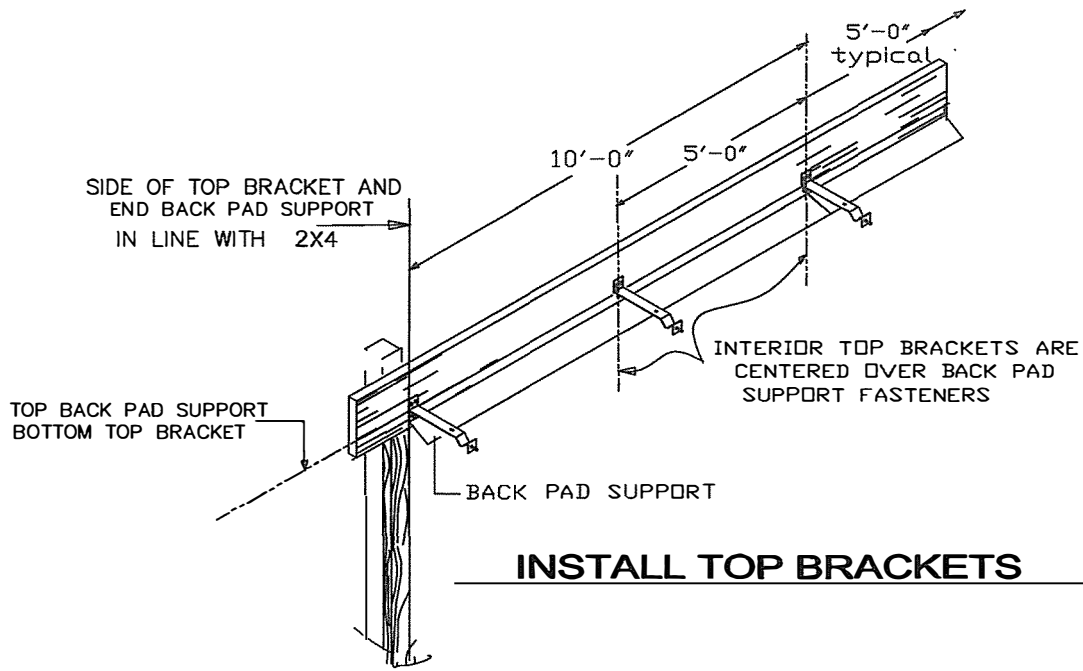
A MINIMUM OF 5' EXTRA 8" PIPE PROVIDED



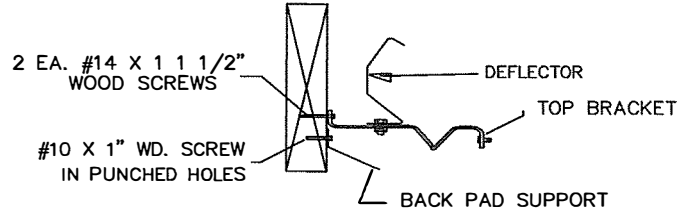
## INSTALL BACK PAD SUPPORT



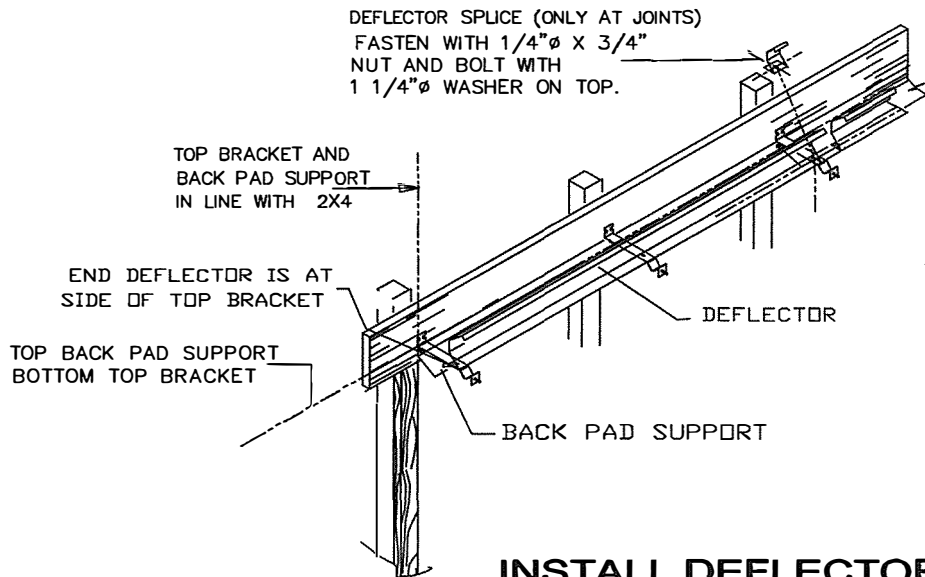
| TABLE "C"  |                                                               |         |
|------------|---------------------------------------------------------------|---------|
| PAD HEIGHT | DIMENSION BETWEEN TOP BOTTOM BRACKET AND TOP BACK PAD SUPPORT |         |
|            | IN FT. & IN.                                                  | INCHES  |
| 3' -0"     | 3' -3 1/2"                                                    | 39 1/2" |
| 4' -0"     | 4' -3 1/2"                                                    | 51 1/2" |
| 5' -0"     | 5' -3 1/2"                                                    | 63 1/2" |
| 6' -0"     | 6' -3 1/2"                                                    | 75 1/2" |



## INSTALL TOP BRACKETS



## END VIEW



## INSTALL DEFLECTOR

## TROUGH FABRICATION

### FOR DOUBLE END FEED SPLIT PAD SYSTEM

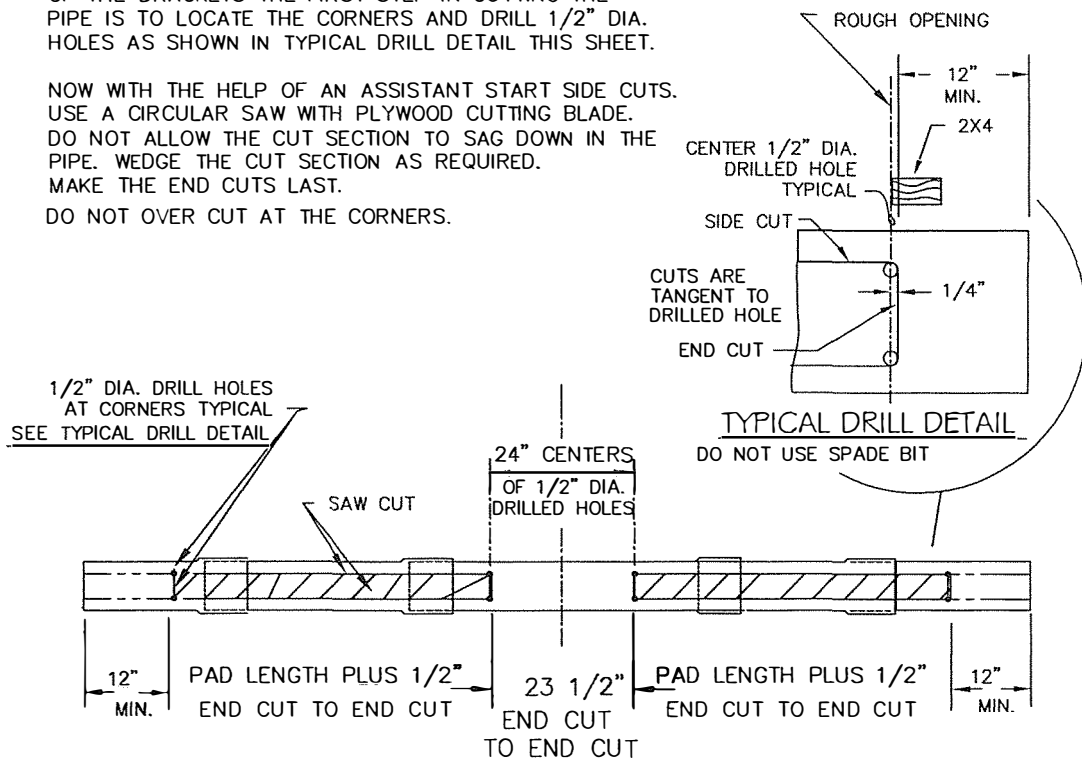
AFTER THE GLUE HAS DRIED PLACE THE ASSEMBLED PIPE ON THE BOTTOM BRACKETS AND SLIDE ASSEMBLY AS REQUIRED TO MAKE SURE THE JOINS CLEAR THE BOTTOM BRACKETS. ALSO VERIFY A MIN OF 12" OF THE 8" PIPE EXTEND BEYOND THE ROUGH OPENINGS.

DRILL HOLES AT CORNERS  
BEFORE MAKING CUTS

WITH PIPE ON THE BOTTOM BRACKETS AND CLEAR OF THE BRACKETS THE FIRST STEP IN CUTTING THE PIPE IS TO LOCATE THE CORNERS AND DRILL 1/2" DIA. HOLES AS SHOWN IN TYPICAL DRILL DETAIL THIS SHEET.

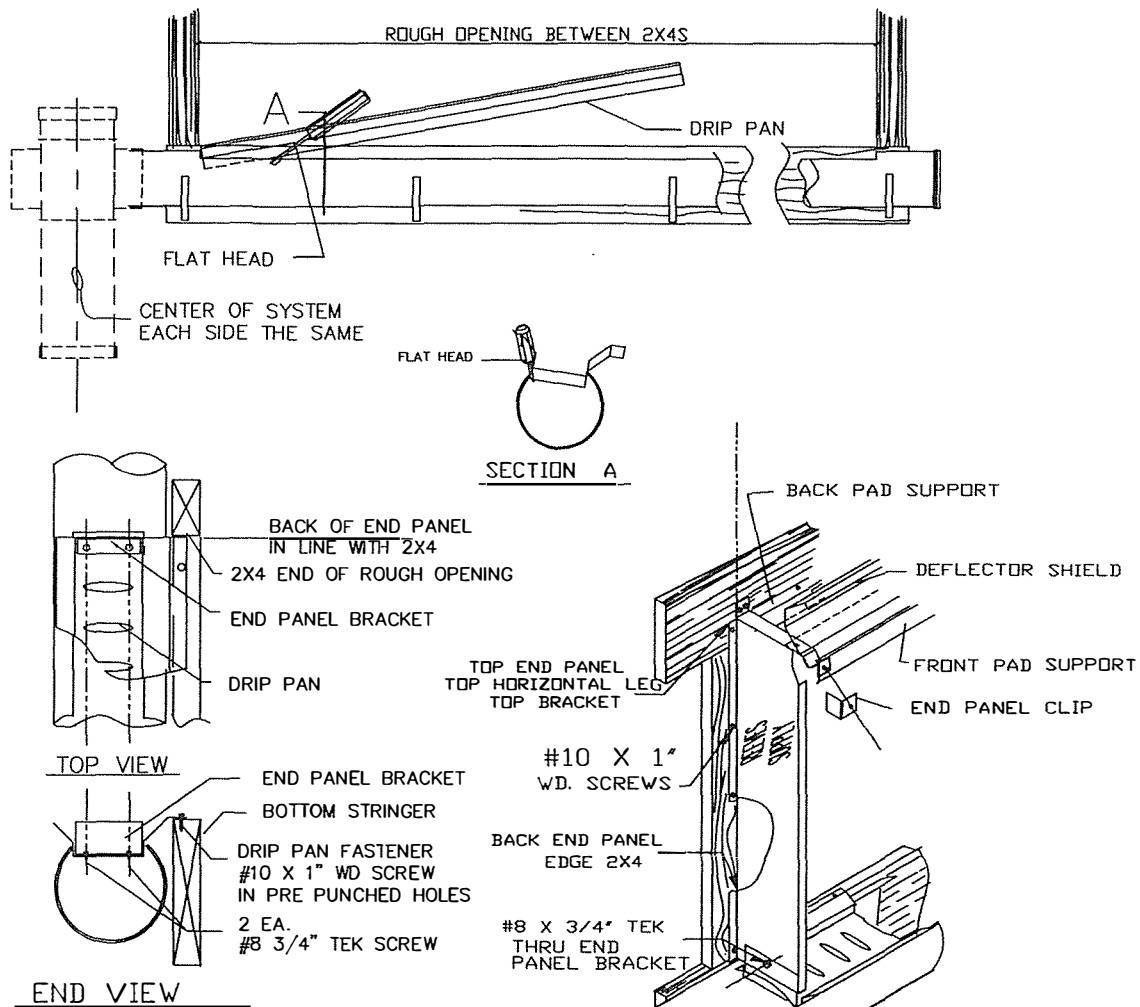
NOW WITH THE HELP OF AN ASSISTANT START SIDE CUTS. USE A CIRCULAR SAW WITH PLYWOOD CUTTING BLADE. DO NOT ALLOW THE CUT SECTION TO SAG DOWN IN THE PIPE. WEDGE THE CUT SECTION AS REQUIRED. MAKE THE END CUTS LAST.

DO NOT OVER CUT AT THE CORNERS.



## PLACE DRIP PAN IN TROUGH

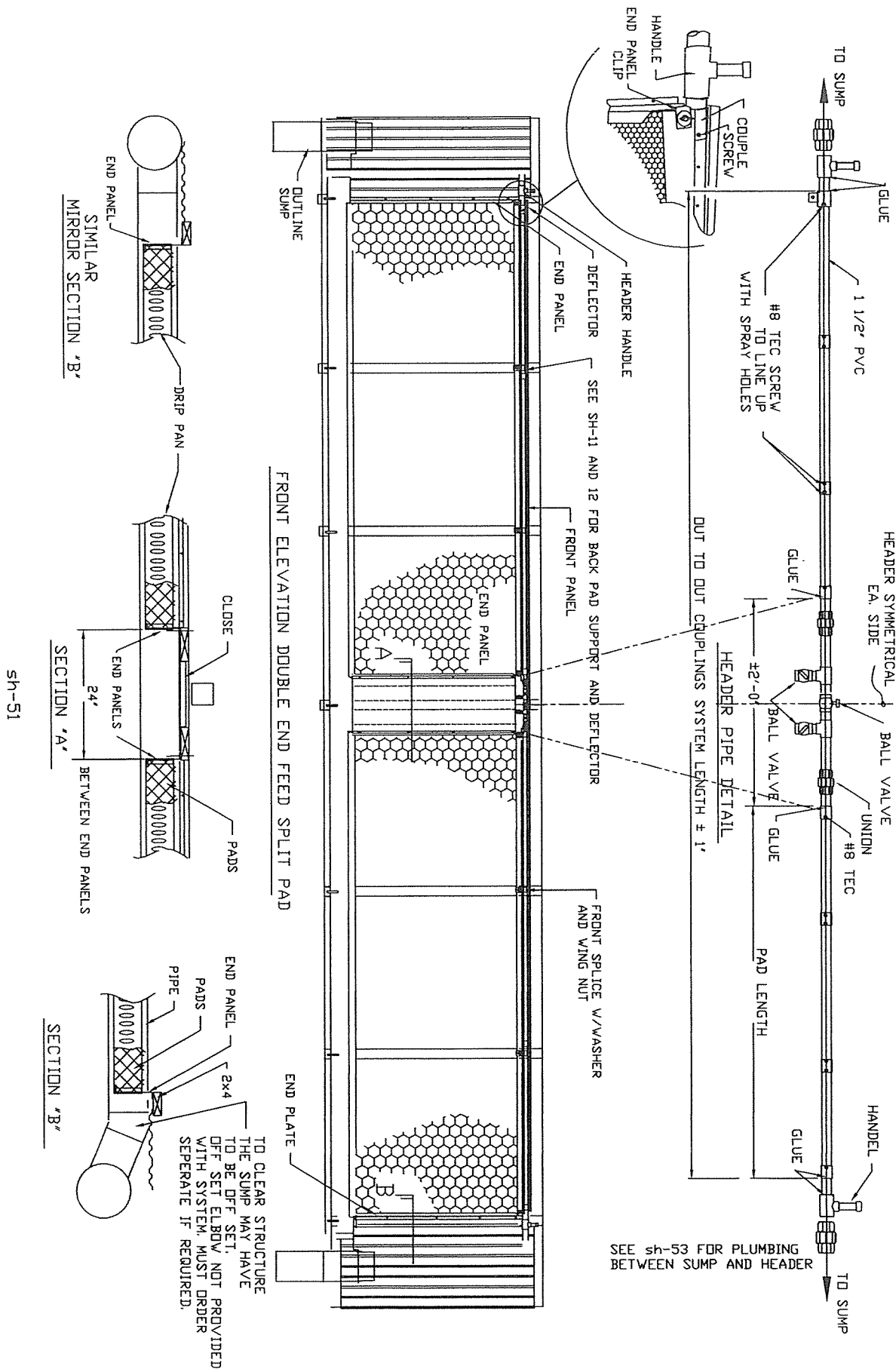
THOROUGHLY CLEAN THE TROUGH BEFORE INSTALLING THE DRIP PAN,  
DUE TO THE TIGHT FIT OF DRIP PAN IN THE TROUGH PIPE  
THE OPENING WILL MOST LIKELY REQUIRE PRYING OPEN TO "WALK IN"  
THE DRIP PAN. TYPICALLY A FLAT HEAD SCREW DRIVER WEDGED BETWEEN  
PIPE AND PAN JUST AHEAD OF THE SEATED AREA WORKS WELL. SLIGHT  
ROTATION OF THE PAN HELPS SEE SECTION "A" BELOW.



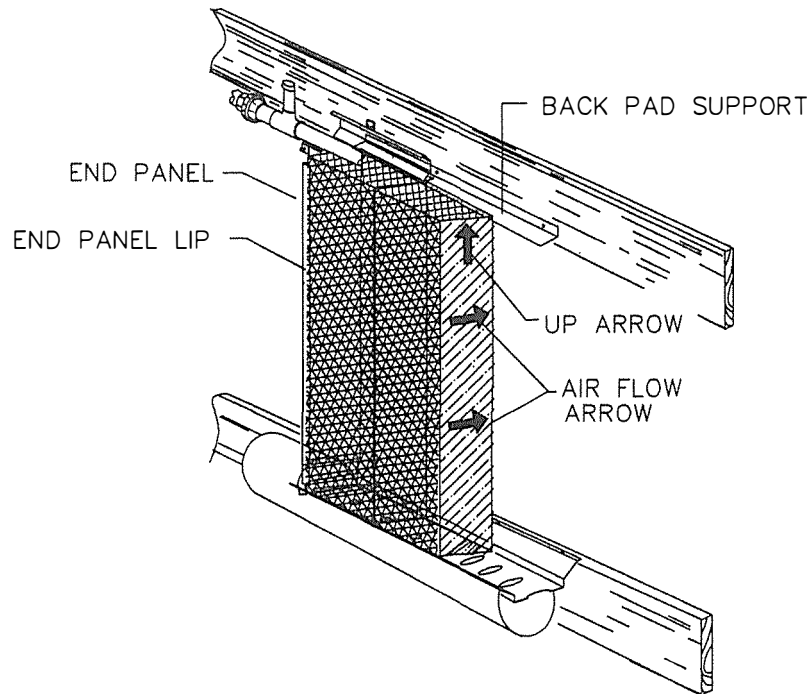
## INSTALL END PANELS BRACKETS

## INSTALL END PANELS BOTH ENDS

# DOUBLE END FEED SPLIT PAD ELEVATION WITH HEADER



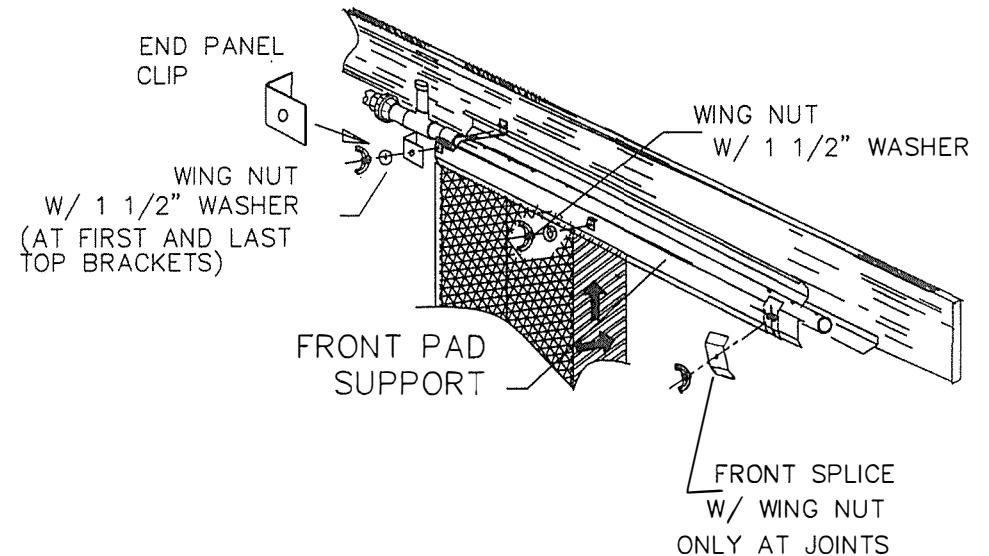
## INSTALL PADS



**NOTE:** SIDES OF PADS ARE COLORED AND MARKED WITH ARROWS TO SHOW CORRECT ORIENTATION OF PADS. MAKE SURE PADS ARE PLACED CORRECTLY.

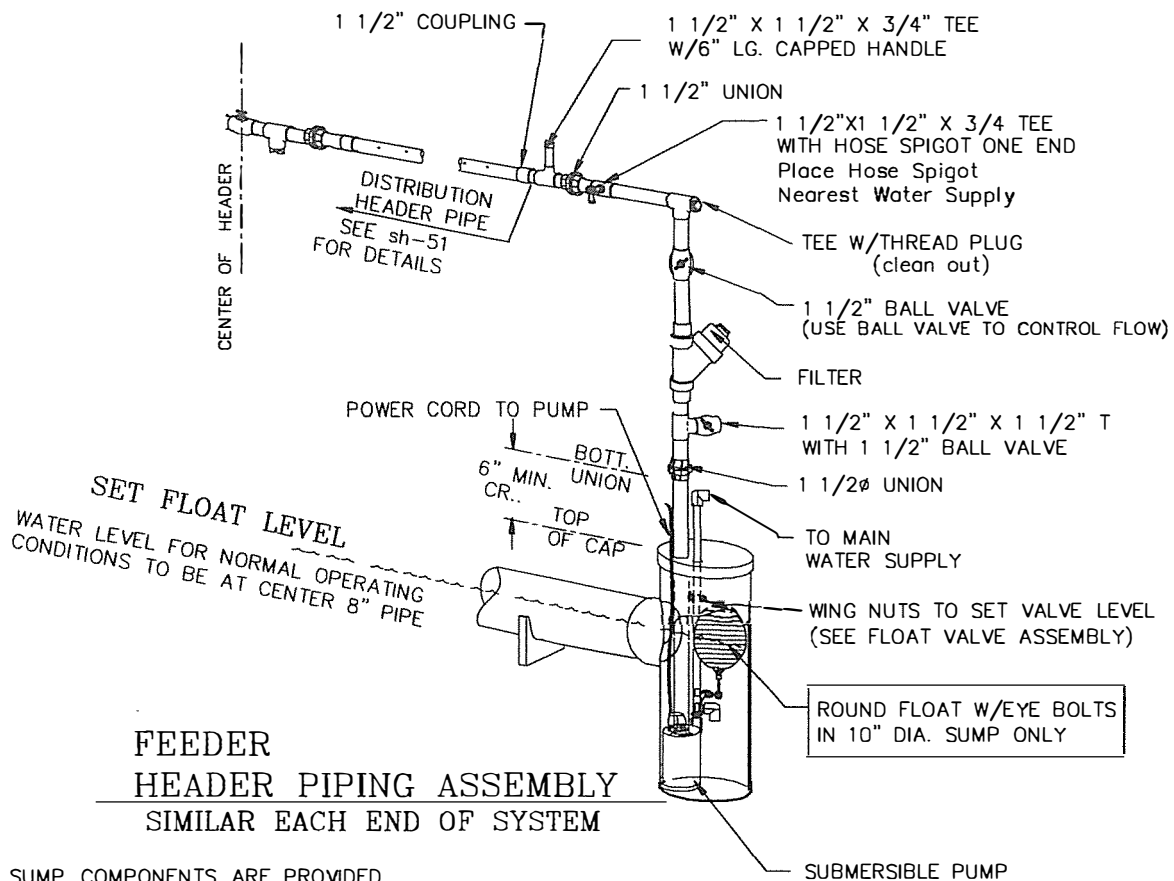
"NEST THE FIRST PAD BEHIND LIP AGAINST THE END PANEL. INSTALL REMAINDER OF PADS TIGHTLY AGAINST THE PREVIOUSLY INSTALLED PAD. CONTINUE UNTIL THE NEXT TO LAST PAD HAS BEEN INSTALLED. IN ORDER TO INSTALL THE LAST PAD THE NEXT-TO-LAST PAD SHOULD BE SLID BEHIND FAR END PANEL LIP. THIS SHOULD PROVIDE SUFFICIENT CLEARANCE TO INSTALL THE LAST PAD.

## INSTALL FRONT PAD SUPPORT

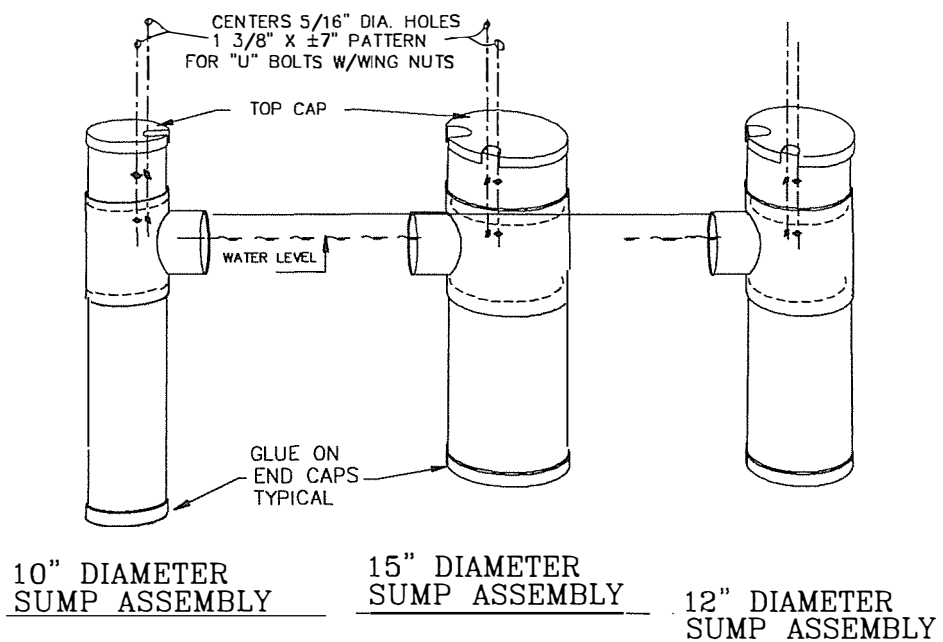


THE FRONT PANEL CAN BE INSTALLED AS PADS ARE PLACED OR AFTER ALL PADS HAVE BEEN INSTALLED.

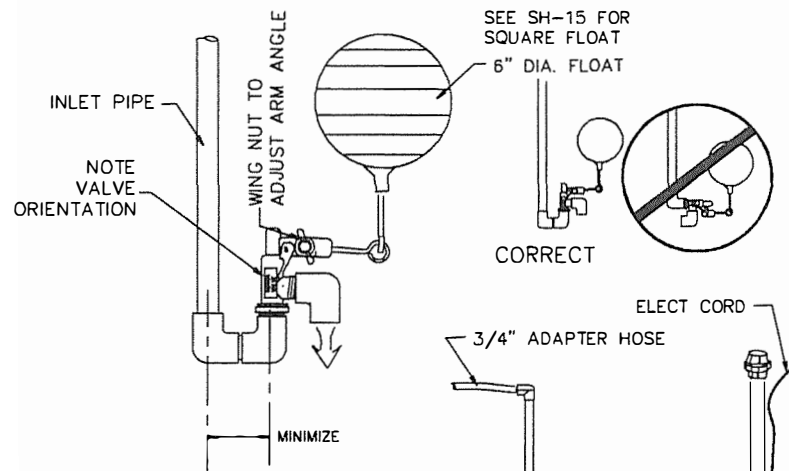
NOTE; ON ALUMINUM SYSTEM PEEL OFF PVC COATING AND PLACE REEVES SUPPLY STICKER ON END PANEL



SUMP COMPONENTS ARE PROVIDED  
THE END CAP TO BE GLUED ON IN FIELD.  
THE TOP CAP WILL REQUIRE OPENINGS TO BE FIELD CUT  
DO NOT GLUE ON TOP CAP.



# FLOAT VALVE ASSEMBLY PUMP ASSEMBLY



ENLARGED ASSEMBLY  
SEE NEXT SHEET FOR  
FLOAT VALVE ROTATION

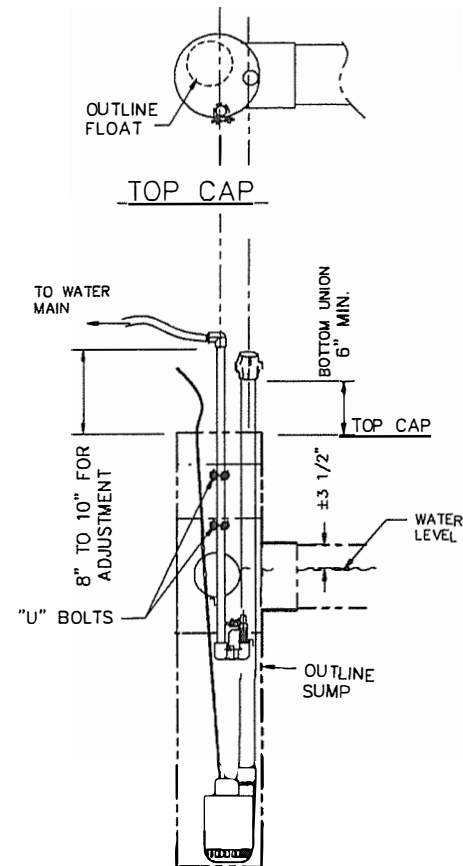
2 (TWO) KITS PROVIDED  
Each Float Kit Includes

- 1-3/4" Float Valve
- 1-6" dia. Black Plastic Float Ball
- 2-90° Elbow SxS
- 2- 3/4" MGT Adapter Hose
- 2- U Bolts
- 4- Nylon Wing Nuts
- 2-1/4" Eye Bolts pre

\* 3/4 PVC Pipe not included

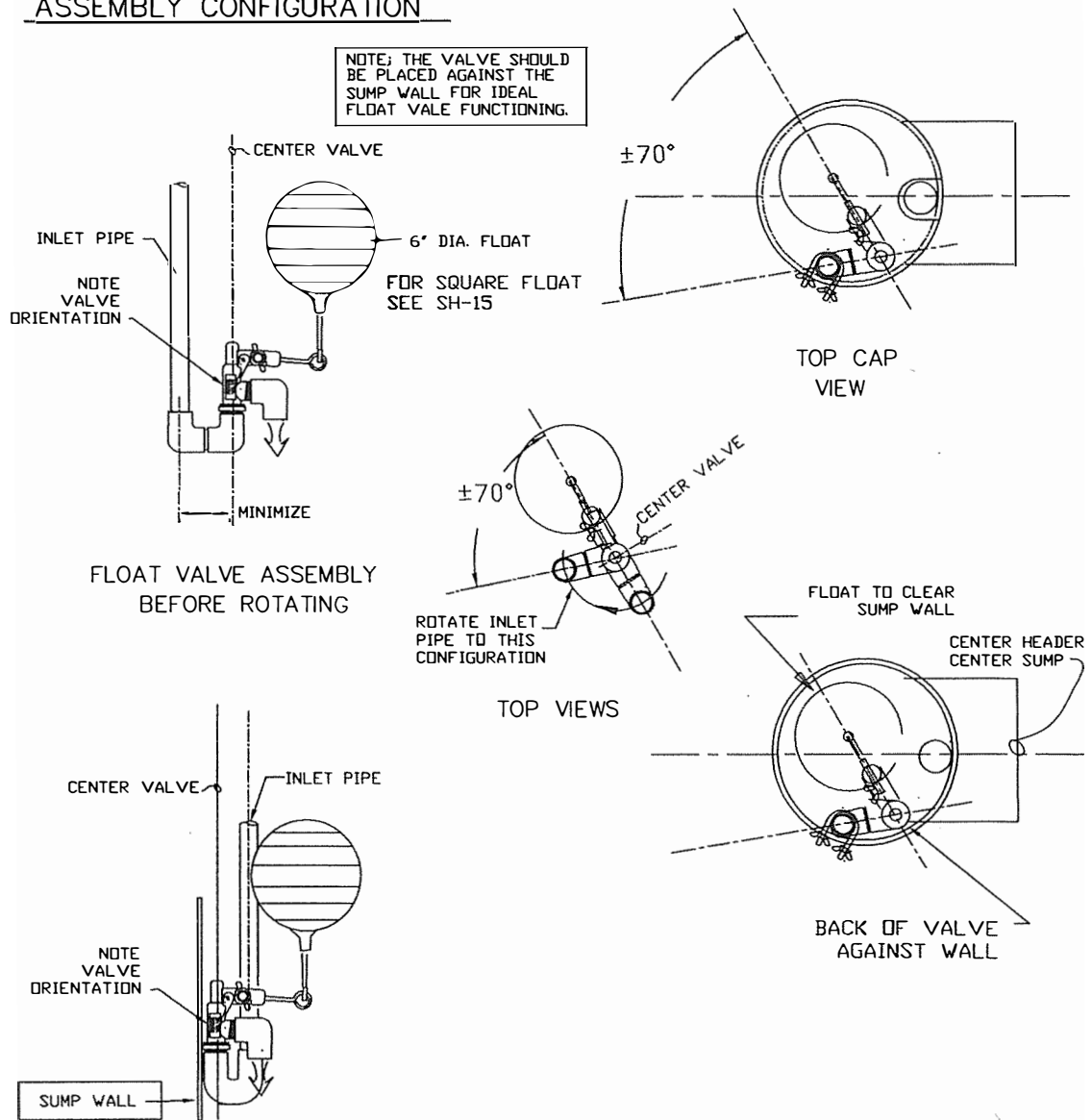
FLOAT KIT  
ASSEMBLY

PUMP  
ASSEMBLY



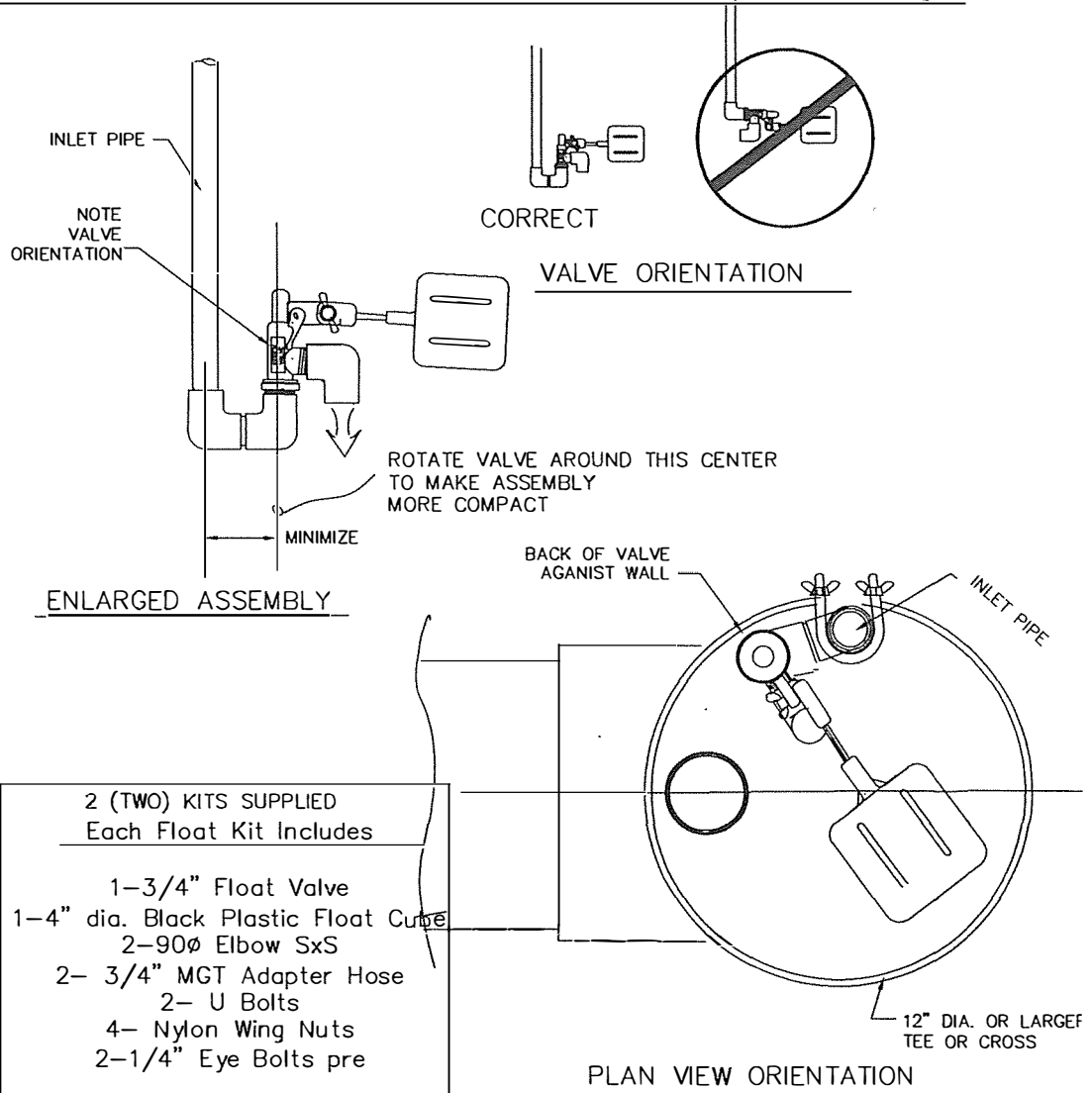
COMBINED ASSEMBLY  
SHOWN IN 10" SUMP

# FLOAT VALVE ASSEMBLY CONFIGURATION



FLOAT VALVE ASSEMBLY  
MOST COMPACT  
MUST USE THIS ARRANGEMENT  
FOR 10" SUMP AND 10" CROSS SUMP

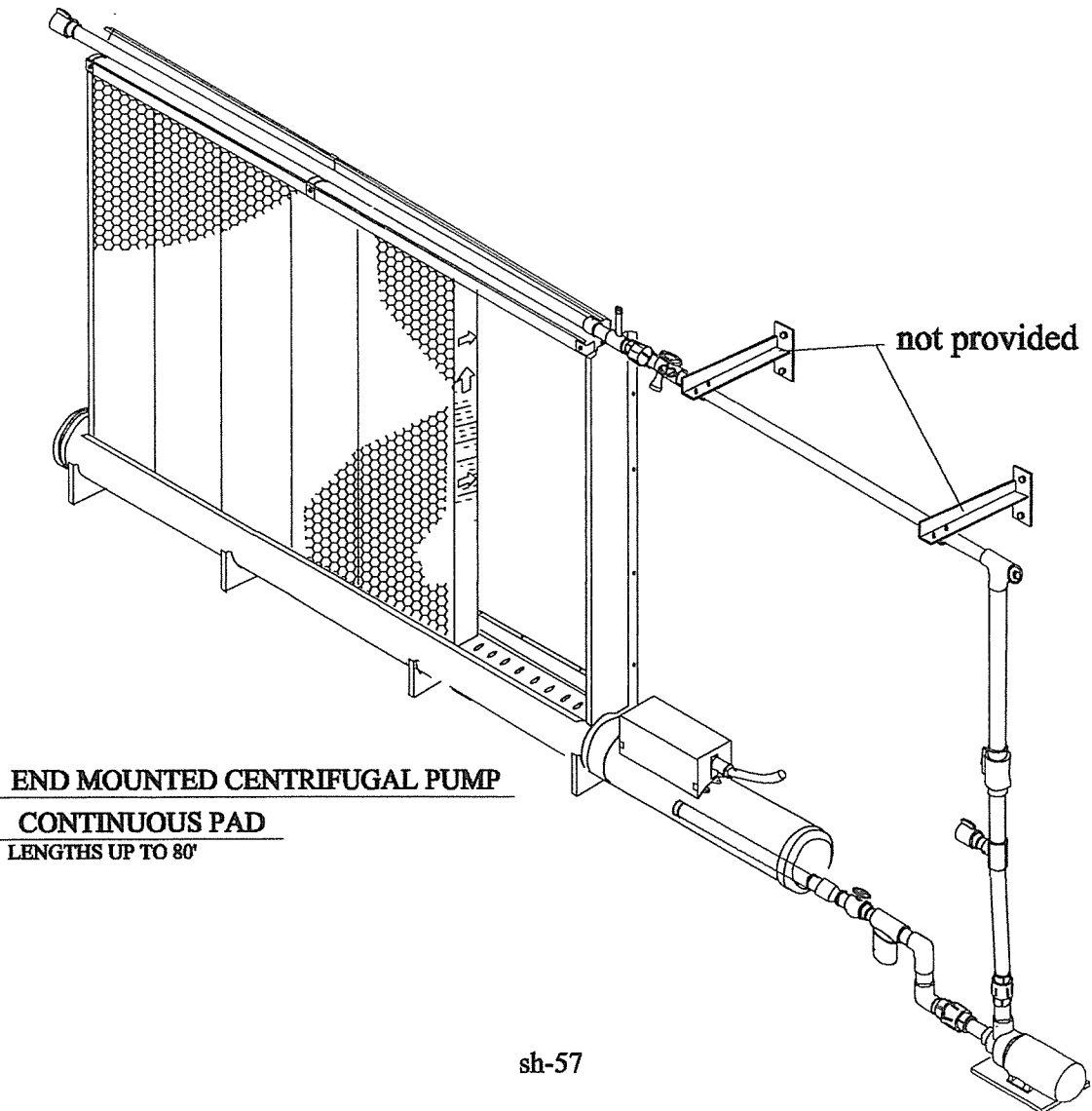
## SQUARE FLOAT & VALVE ASSEMBLY for 12" & 15" TEES only



\* 3/4" PVC Pipe not included

## TABLE OF CONTENTS

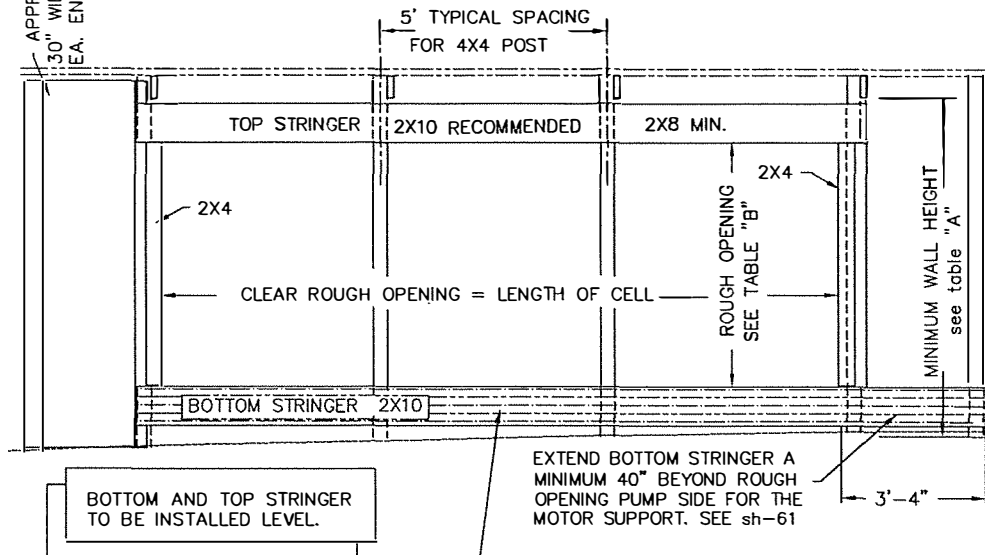
|                                               | sheet no. |
|-----------------------------------------------|-----------|
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| Centrifugal Pump Piping & Supply Header ..... | 68        |
| Float Valve Box & Pick-up Tube .....          | 69        |
| Install Pads and Front Panel .....            | 70        |



APPROXIMATELY  
30" WIDE CLOSURE  
EA. END

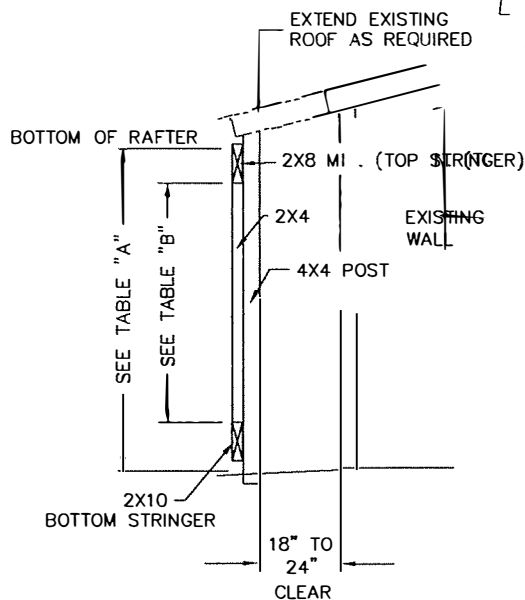
## FRAMING ELEVATION AND SECTION

USE PRESSURE TREATED LUMBER



EXTEND BOTTOM STRINGER A MINIMUM 40" BEYOND ROUGH OPENING PUMP SIDE FOR THE MOTOR SUPPORT. SEE sh-61

BOTTOM 2X10 STRINGER TO BE TEMPORARILY NAILED IN PLACE. FINAL ANCHORAGE COMES WITH THE INSTALLATION OF THE BOTTOM BRACKETS



SECTION VIEW

MINIMUM WALL HEIGHT  
PAD HEIGHT + 16" = "A"

| TABLE "A"  |                     |           |
|------------|---------------------|-----------|
| PAD HEIGHT | OVERALL WALL HEIGHT |           |
|            | in FEET & IN        | in INCHES |
| 3' - 0"    | 4' - 4"             | 52"       |
| 4' - 0"    | 5' - 4"             | 64"       |
| 5' - 0"    | 6' - 4"             | 76"       |
| 6' - 0"    | 7' - 4"             | 88"       |

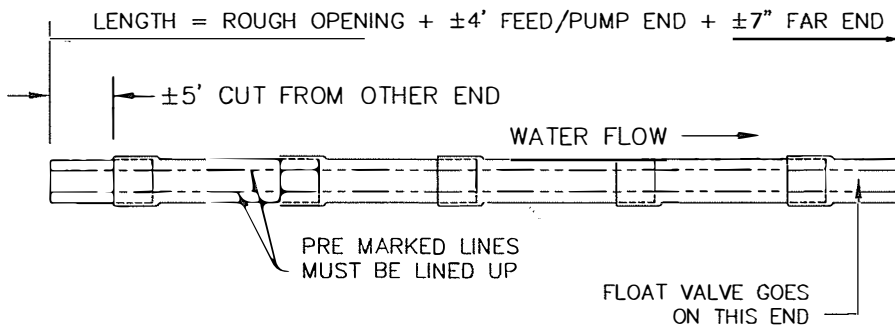
ROUGH OPENING HEIGHT  
PAD HEIGHT - 3' = "B"

| TABLE "B"  |                    |           |
|------------|--------------------|-----------|
| PAD HEIGHT | CLEAR BETWEEN 2X10 |           |
|            | in FEET & IN       | in INCHES |
| 3' - 0"    | 2' - 9"            | 33"       |
| 4' - 0"    | 3' - 9"            | 45"       |
| 5' - 0"    | 4' - 9"            | 57"       |
| 6' - 0"    | 5' - 9"            | 69"       |

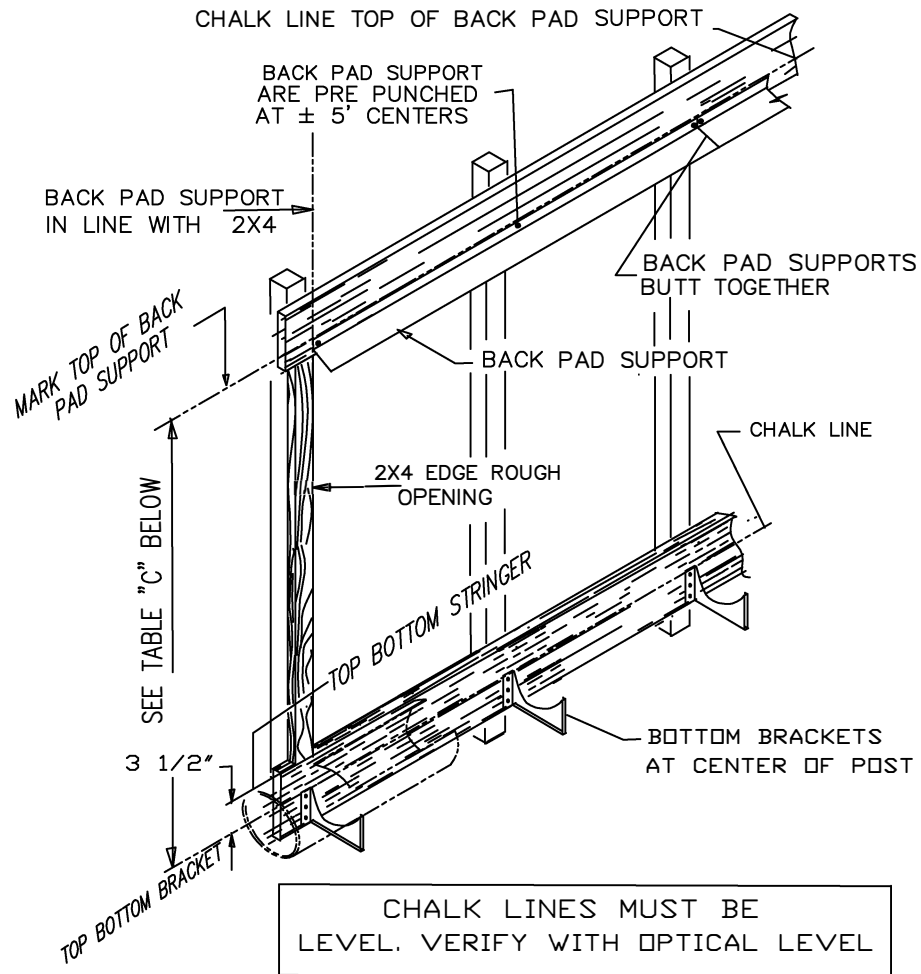
## GLUE 8" TROUGH FOR CENTRIFUGAL PUMP END FEED

DO NOT DISTURB GLUED PIPE  
UNTIL GLUE HAS CURED.

A MINIMUM OF 5' EXTRA 8" PIPE PROVIDED



## INSTALL BACK PAD SUPPORT

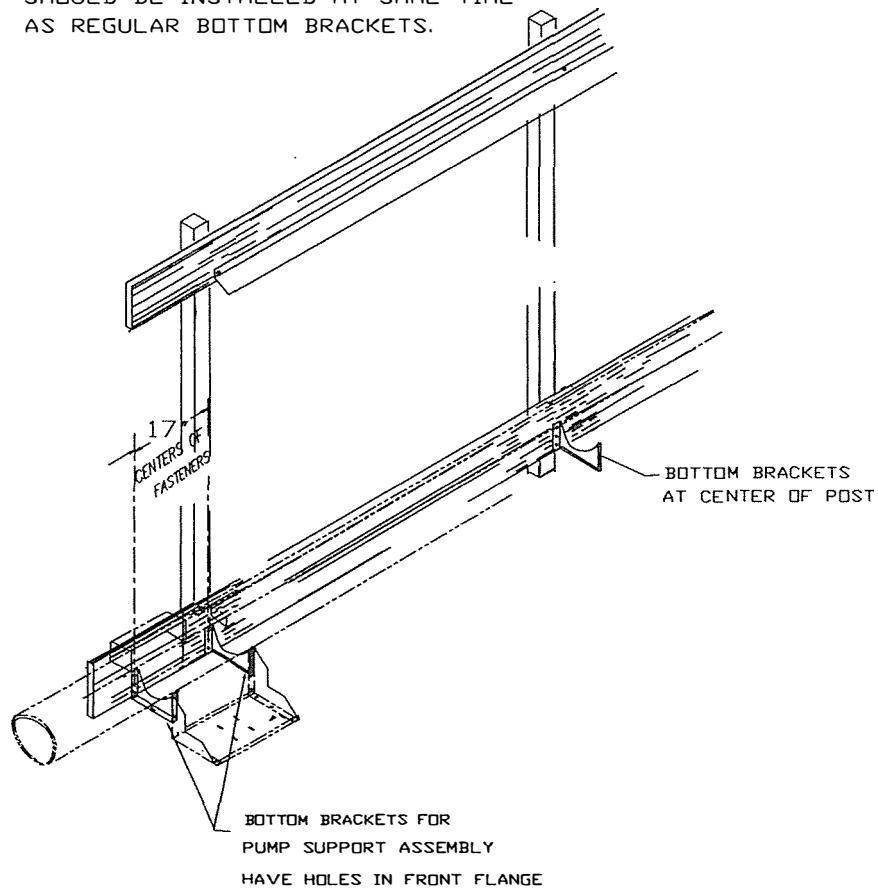


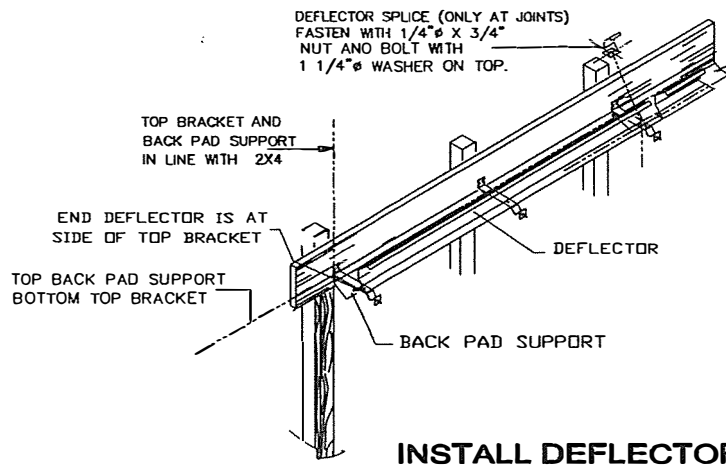
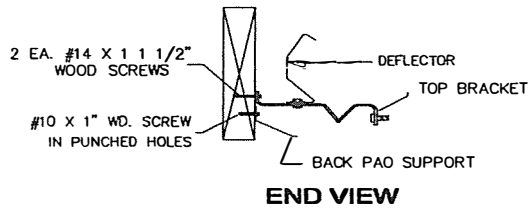
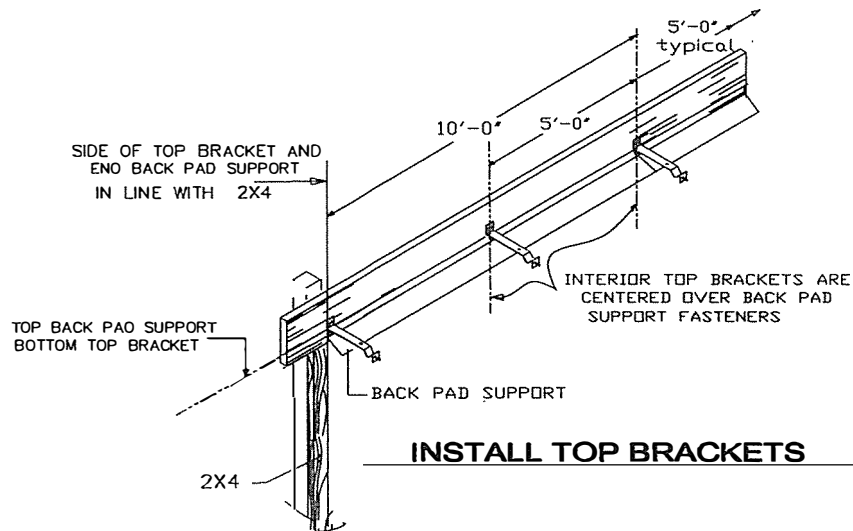
| TABLE "C"  |                                                               |         |
|------------|---------------------------------------------------------------|---------|
| PAD HEIGHT | DIMENSION BETWEEN TOP BOTTOM BRACKET AND TOP BACK PAD SUPPORT |         |
|            | IN FT. & IN.                                                  | INCHES  |
| 3' - 0"    | 3' - 3 1/2"                                                   | 39 1/2" |
| 4' - 0"    | 4' - 3 1/2"                                                   | 51 1/2" |
| 5' - 0"    | 5' - 3 1/2"                                                   | 63 1/2" |
| 6' - 0"    | 6' - 3 1/2"                                                   | 75 1/2" |

## **BOTTOM BRACKETS FOR PUMP SUPPORT ASSEMBLY**

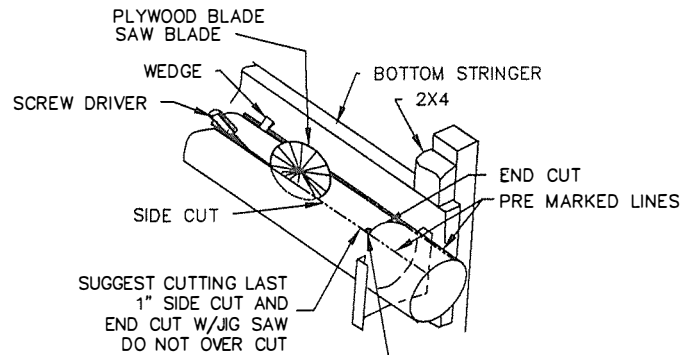
FAILURE TO INSTALL SYSTEM  
LEVEL WILL VOID WARRANTY

BOTTOM BRACKETS FOR PUMP SUPPORT  
SHOULD BE INSTALLED AT SAME TIME  
AS REGULAR BOTTOM BRACKETS.





## TROUGH CUTTING TECHNIQUES



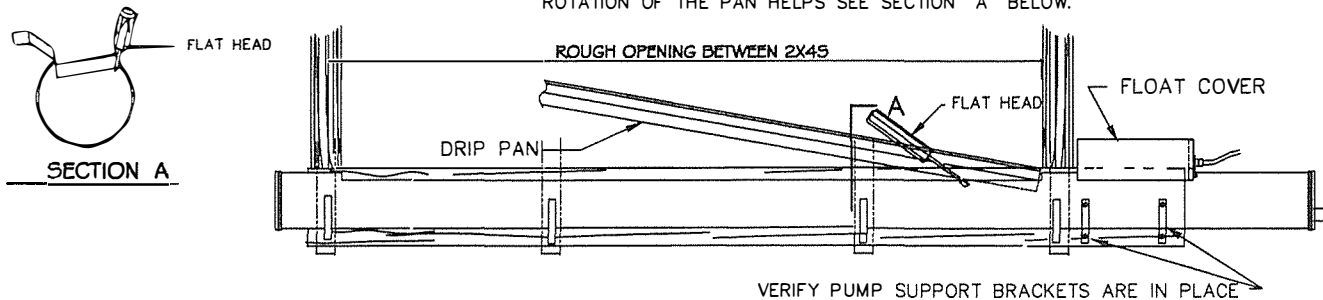
## TROUGH CUTTING TECHNIQUES

THE ABOVE SKETCH ILLUSTRATES STEPS OF HOW TO CUT THE PIPE TO AVOID PINCHING THE SAW BLADE. IN GENERAL THE GOAL IS TO PREVENT THE CUT OUT SECTION FROM SAGGING DOWN INTO THE PIPE. SAGGING DOWN INTO THE PIPE THUS PINCHING THE SAW BLADE RESULTING IN KICK BACK AND POSSIBLY SPLIT THE PIPE

1/2" DIA. DRILL HOLE  
SEE TYPICAL DRILL DETAIL  
sh-9

## PLACE DRIP PAN IN TROUGH

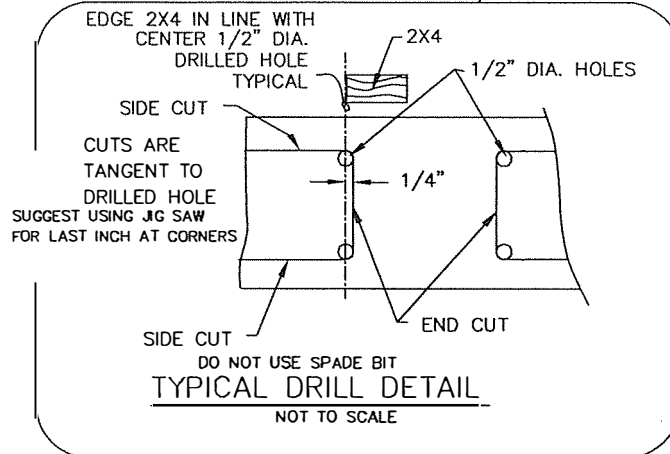
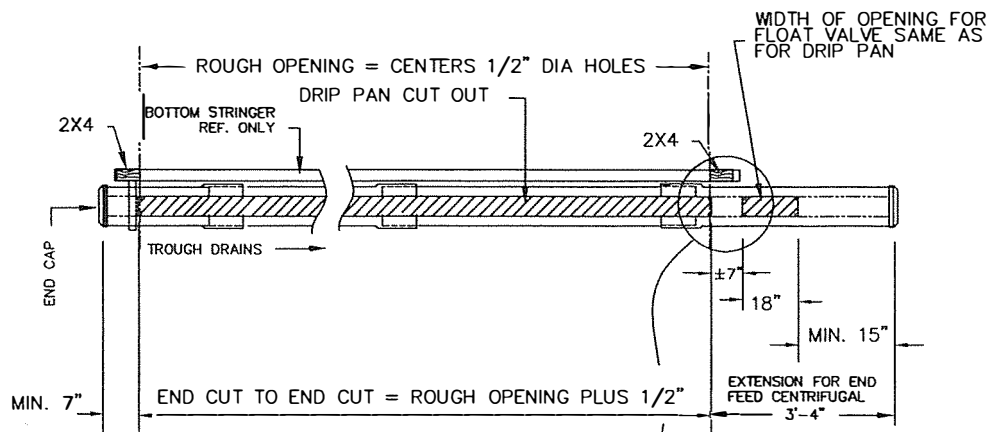
THOROUGHLY CLEAN THE TROUGH BEFORE INSTALLING THE DRIP PAN, DUE TO THE TIGHT FIT OF DRIP PAN IN THE TROUGH PIPE THE OPENING WILL MOST LIKELY REQUIRE PRYING OPEN TO "WALK IN" THE DRIP PAN. TYPICALLY A FLAT HEAD SCREW DRIVER WEDGED BETWEEN PIPE AND PAN JUST AHEAD OF THE SEATED AREA WORKS WELL. SLIGHT ROTATION OF THE PAN HELPS SEE SECTION "A" BELOW.

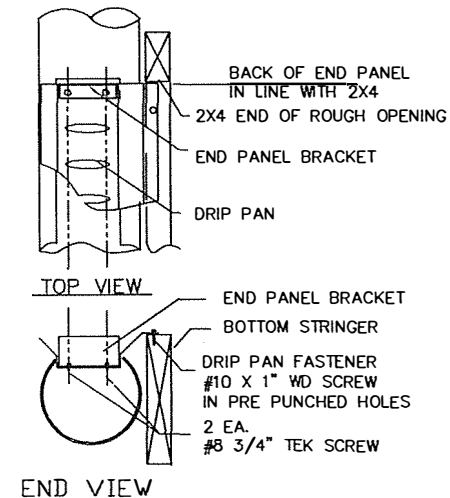


## CUT PIPE FOR CENTRIFUGAL PUMP END FEED

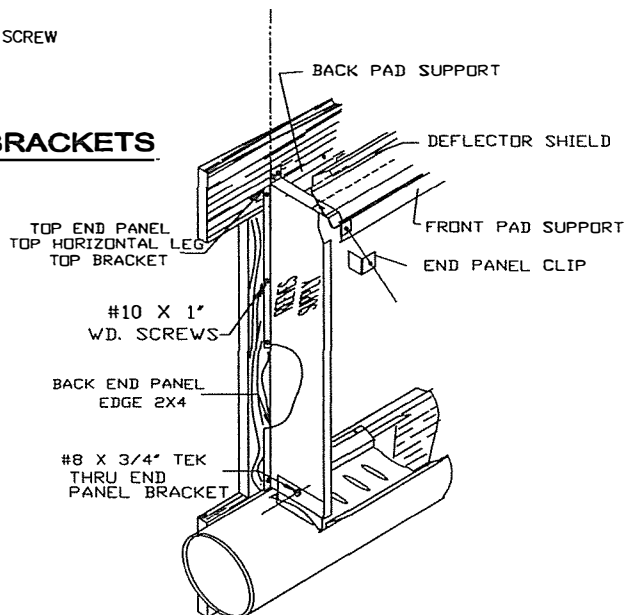
DO NOT DISTURB GLUED PIPE  
UNTIL GLUE HAS CURED.

DRILL 1/2" DIA HOLES AT  
4 CORNERS CUT OUT.



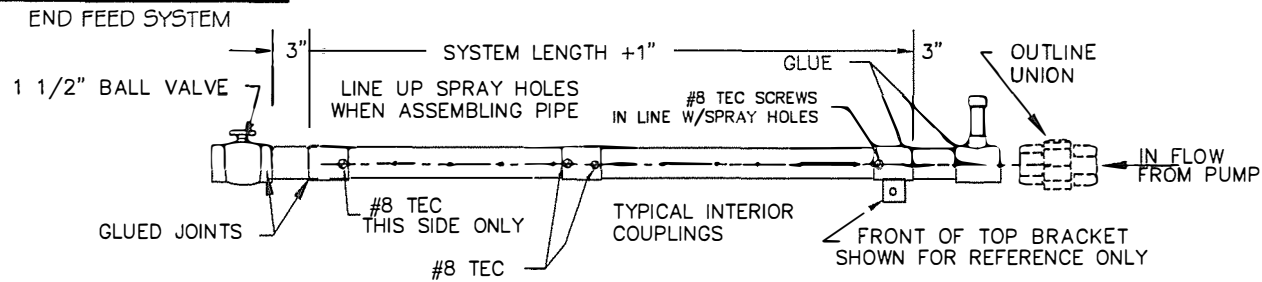


### INSTALL END PANELS BRACKETS



### INSTALL END PANELS BOTH ENDS

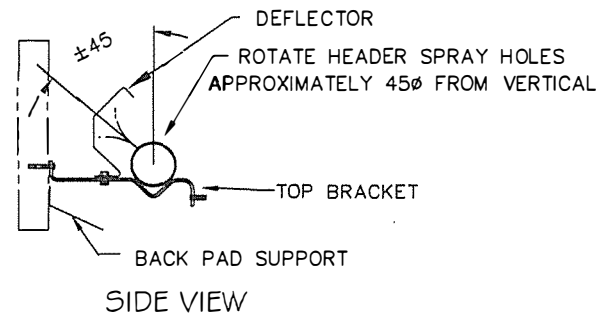
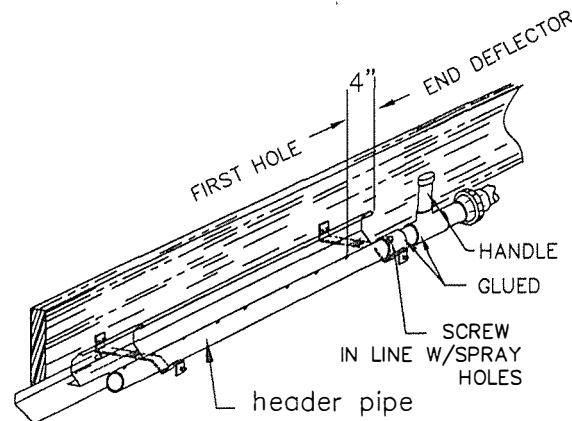
## ASSEMBLE HEADER PIPE



### HEADER PIPE DETAIL

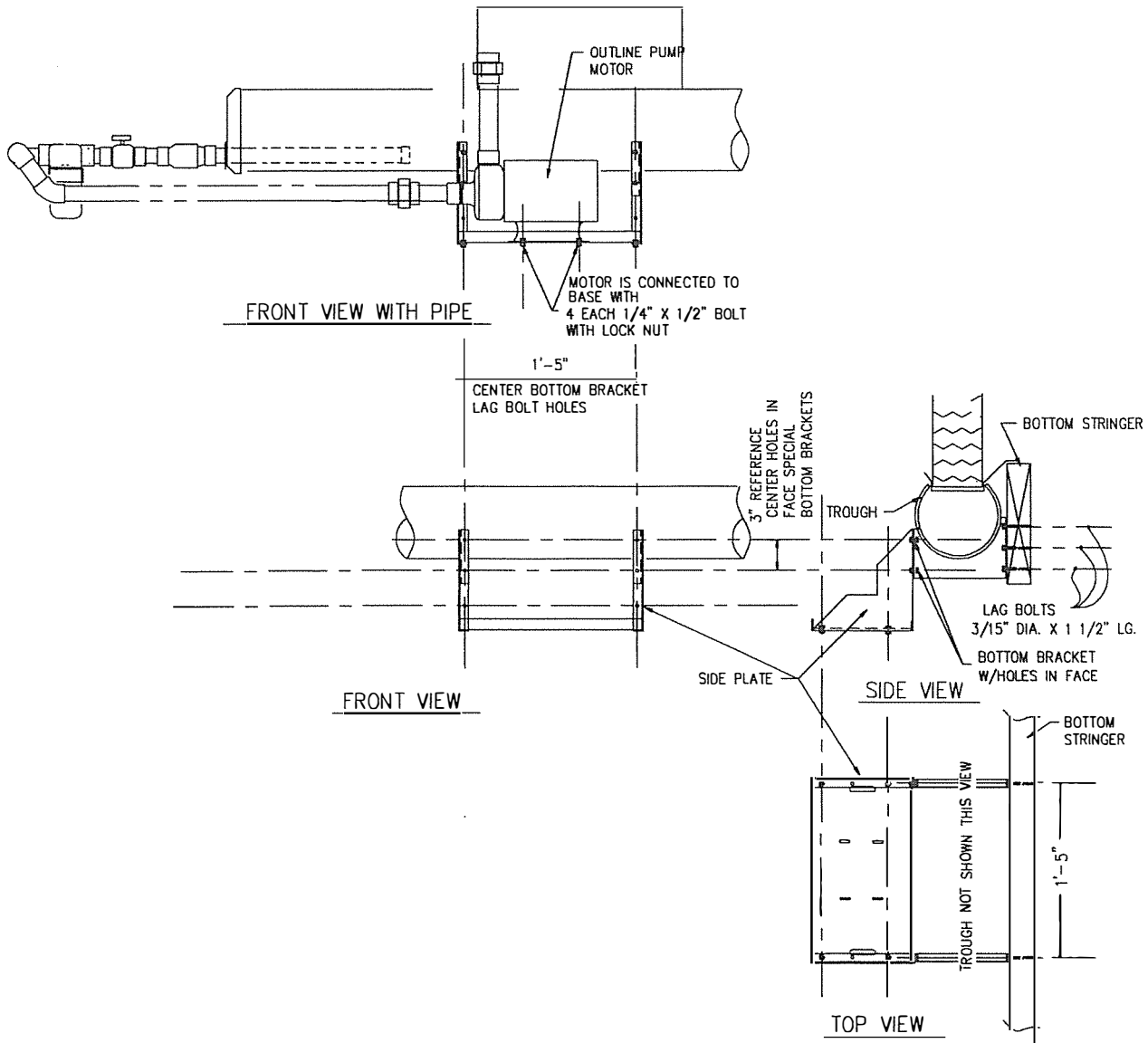
STEP 1 (DO NOT GLUE HEADER PIPE)  
MAKE SURE HOLES ARE LINED UP WHEN ASSEMBLING HEADER. COUPLINGS ARE SCREW FASTENED TO PIPE WITH 2 EACH #8 TEC SCREWS. 1 SCREW EACH SIDE OF COUPLING.

STEP 2  
PLACE ASSEMBLED HEADER PIPE ON TOP BRACKETS. MAKE SURE THE HEADER SPANS FULL LENGTH OF TOP BRACKETS. JOIN BALL VALVE WITH ABOUT 3" OF PIPE TO OUT ENDS. PLACE HANDLE W/ ABOUT 3" ON IN FLOW END

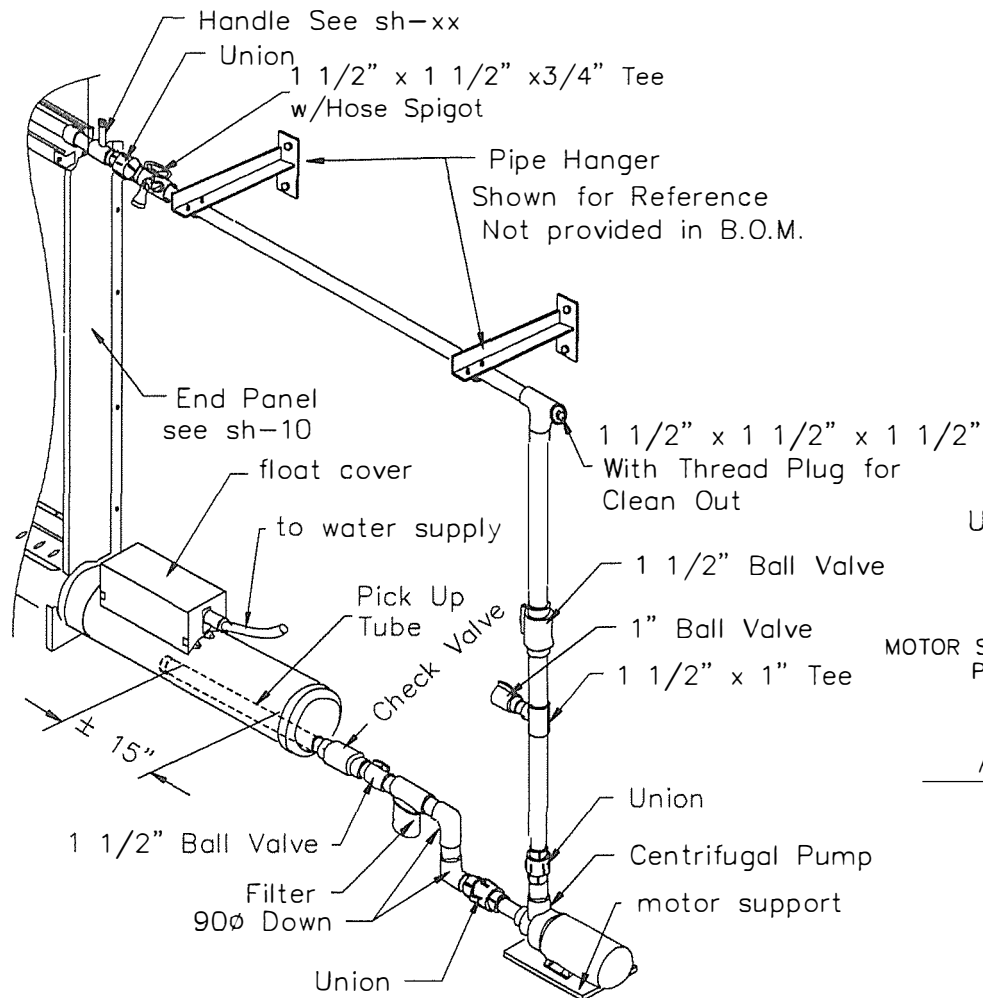


STEP 3  
POSITION HEADER PIPE TO PROVIDE MINIMUM 4" BETWEEN FIRST SPRAY HOLE AND END OF DEFLECTOR. THIS TO PREVENT SPRAYING OUTSIDE THE DEFLECTOR. IT MAY BE NECESSARY TO CUT HEADER PIPE AND INSTALL A COUPLING TO GAIN THE 4" CLEARANCE.

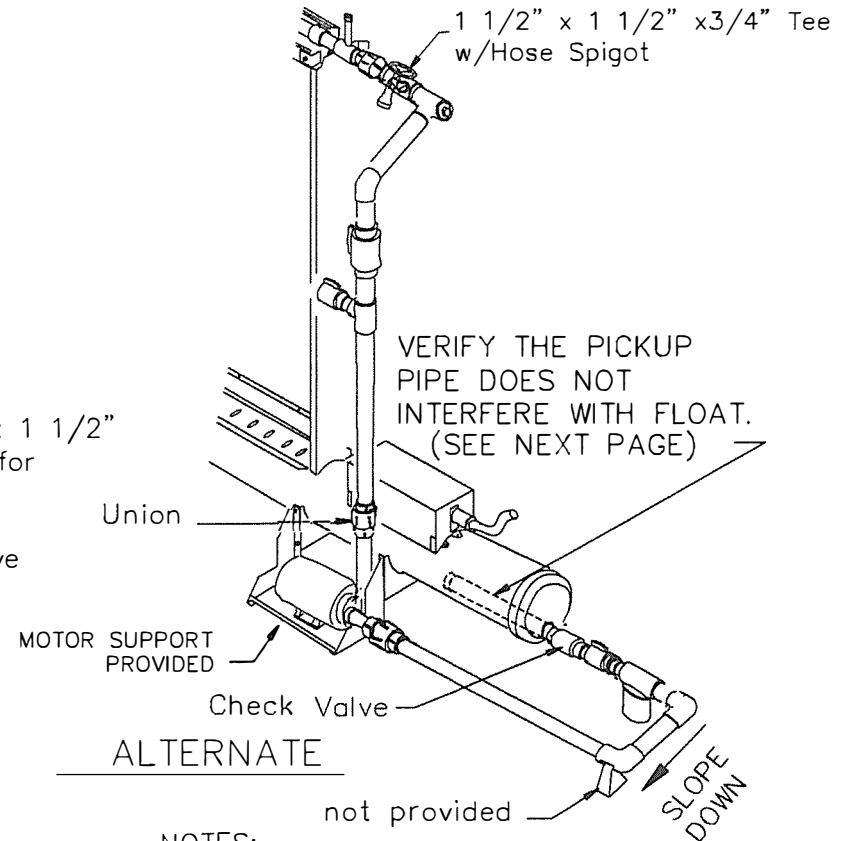
# MOTOR SUPPORT FRAME



# CENTRIFUGAL PUMP PIPING AND SUPPLY HEADER DETAIL



RECOMENDED



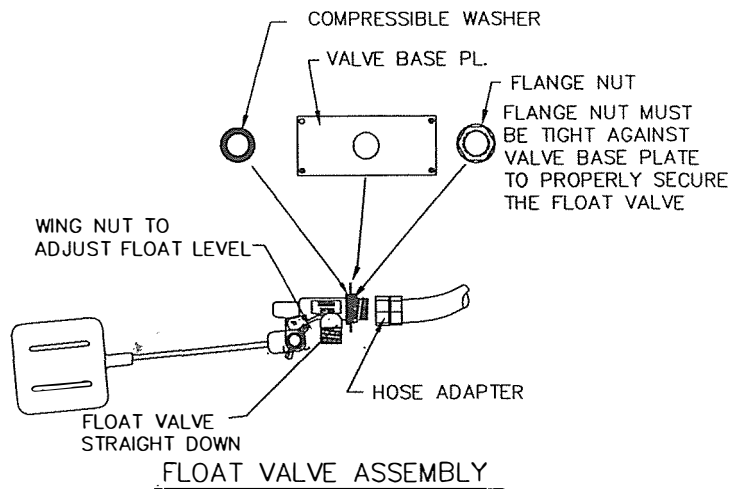
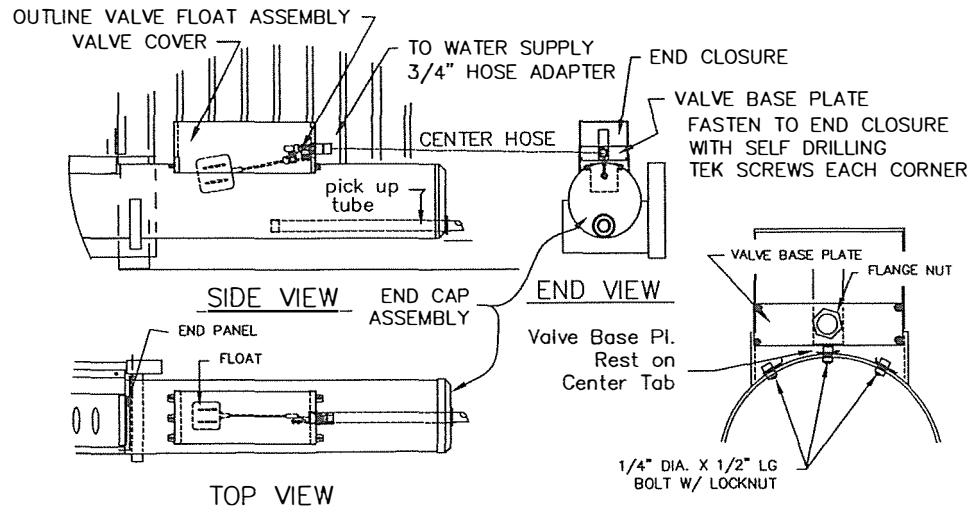
ALTERNATE

## NOTES:

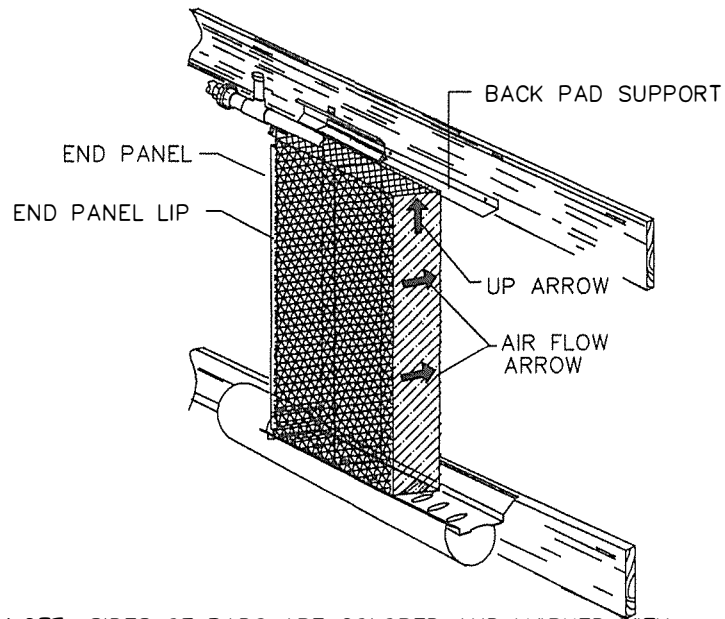
1. HOLES IN PICK-UP TUBE ARE TURNED DOWN
2. PUMP MUST BE A MINIMUM OF TWO (2) INCHES LOWER THAN PICK-UP TUBE.
3. THE CHECK VALVE MUST BE INSTALLED AS SHOWN ABOVE THE PUMP.

## FLOAT VALVE COVER ASSEMBLY

## FLOAT VALVE ASSEMBLY



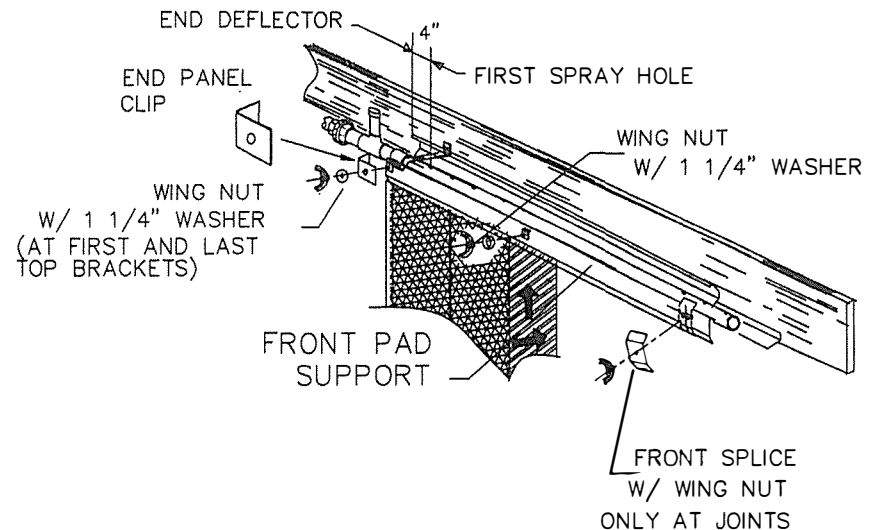
## INSTALL PADS



**NOTE:** SIDES OF PADS ARE COLORED AND MARKED WITH ARROWS TO SHOW CORRECT ORIENTATION OF PADS. MAKE SURE PADS ARE PLACED CORRECTLY.

"NEST THE FIRST PAD BEHIND LIP AGAINST THE END PANEL. INSTALL REMAINDER OF PADS TIGHTLY AGAINST THE PREVIOUSLY INSTALLED PAD. CONTINUE UNTIL THE NEXT TO LAST PAD HAS BEEN INSTALLED. IN ORDER TO INSTALL THE LAST PAD THE NEXT-TO-LAST PAD SHOULD BE SLID BEHIND FAR END PANEL LIP. THIS SHOULD PROVIDE SUFFICIENT CLEARANCE TO INSTALL THE LAST PAD.

## INSTALL FRONT PAD SUPPORT



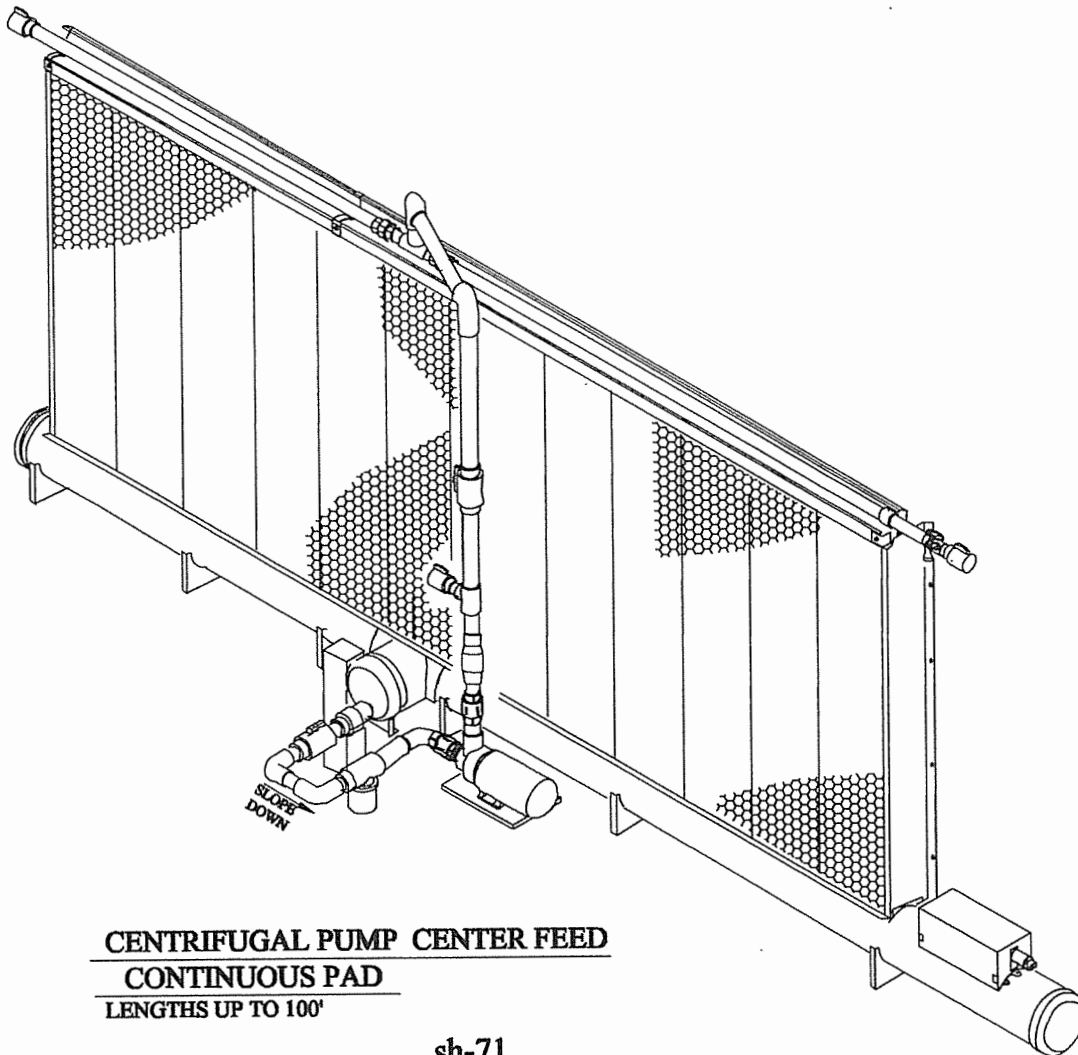
THE FRONT PANEL CAN BE INSTALLED AS PADS ARE PLACED OR AFTER ALL PADS HAVE BEEN INSTALLED.

**NOTE;** ON ALUMINUM SYSTEM PEEL OFF PVC COATING AND PLACE REEVES SUPPLY STICKER ON END PANEL

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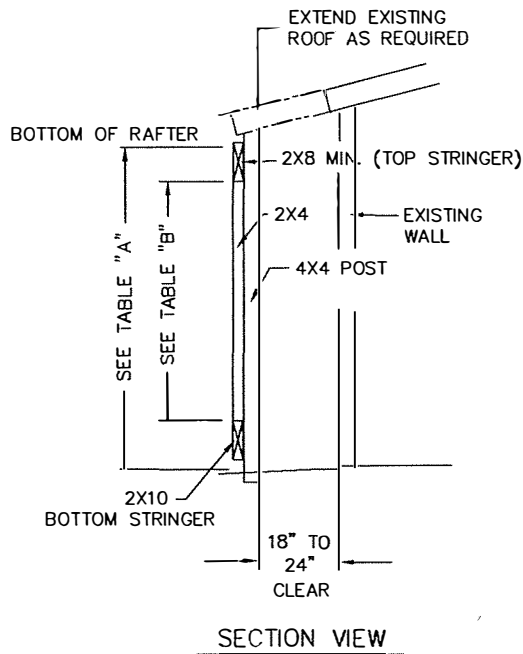
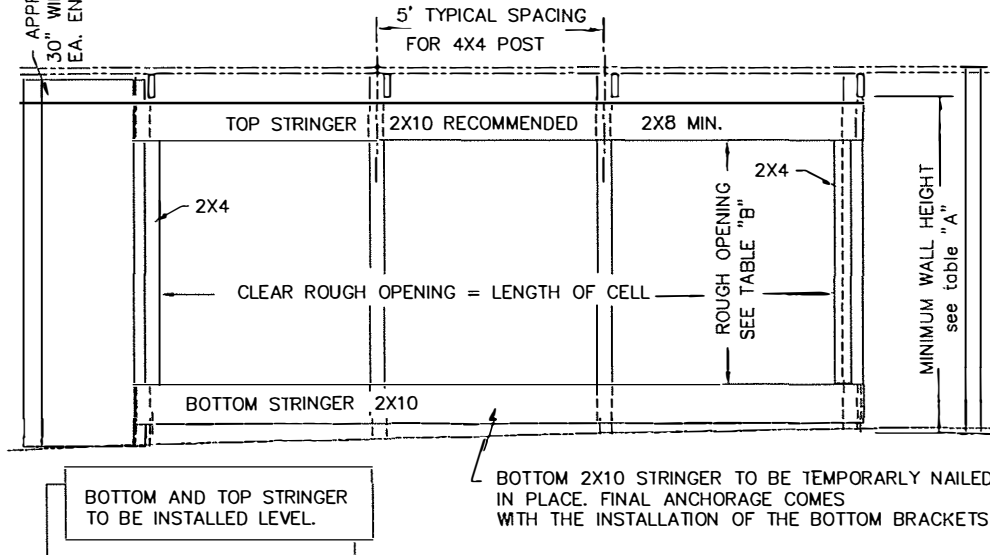
**CENTRIFUGAL PUMP CENTER FEED**  
**CONTINUOUS PAD**  
 LENGTHS UP TO 100'

sh-71

APPROXIMATELY  
30" WIDE CLOSURE  
EA. END

## FRAMING ELEVATION AND SECTION

USE PRESSURE TREATED LUMBER



MINIMUM WALL HEIGHT  
PAD HEIGHT + 16" = "A"

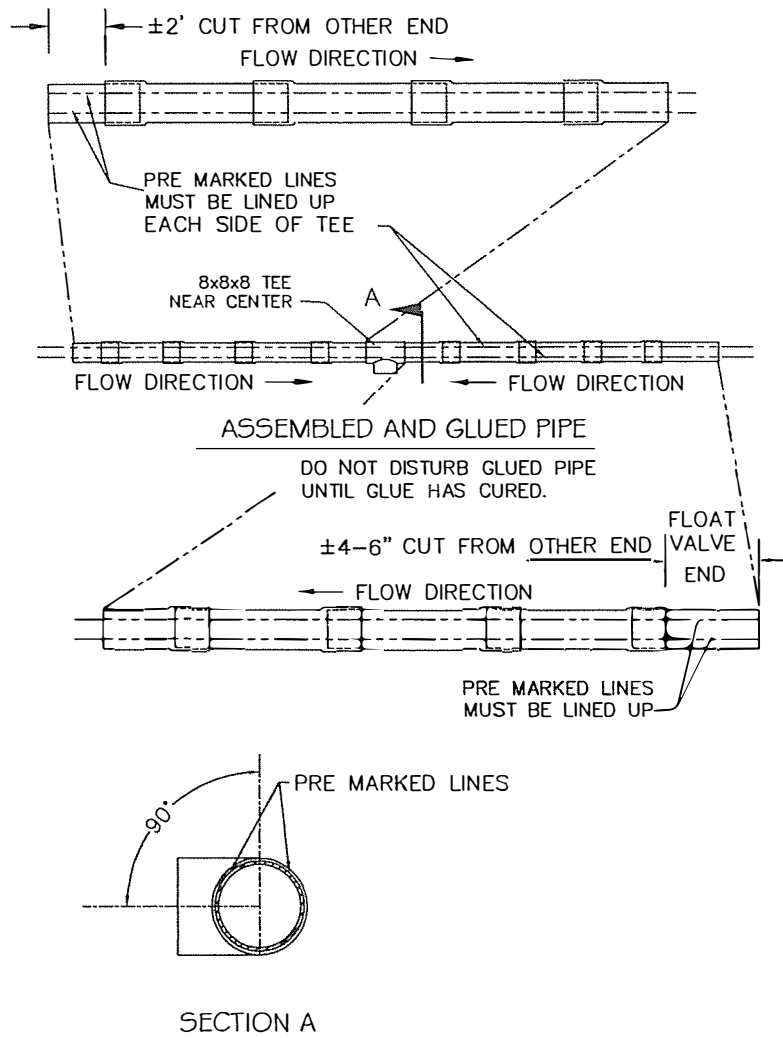
| PAD<br>HEIGHT | OVERALL<br>WALL HEIGHT |           |
|---------------|------------------------|-----------|
|               | in FEET & IN           | in INCHES |
| 3'-0"         | 4'-4"                  | 52"       |
| 4'-0"         | 5'-4"                  | 64"       |
| 5'-0"         | 6'-4"                  | 76"       |
| 6'-0"         | 7'-4"                  | 88"       |

ROUGH OPENING HEIGHT  
PAD HEIGHT - 3' = "B"

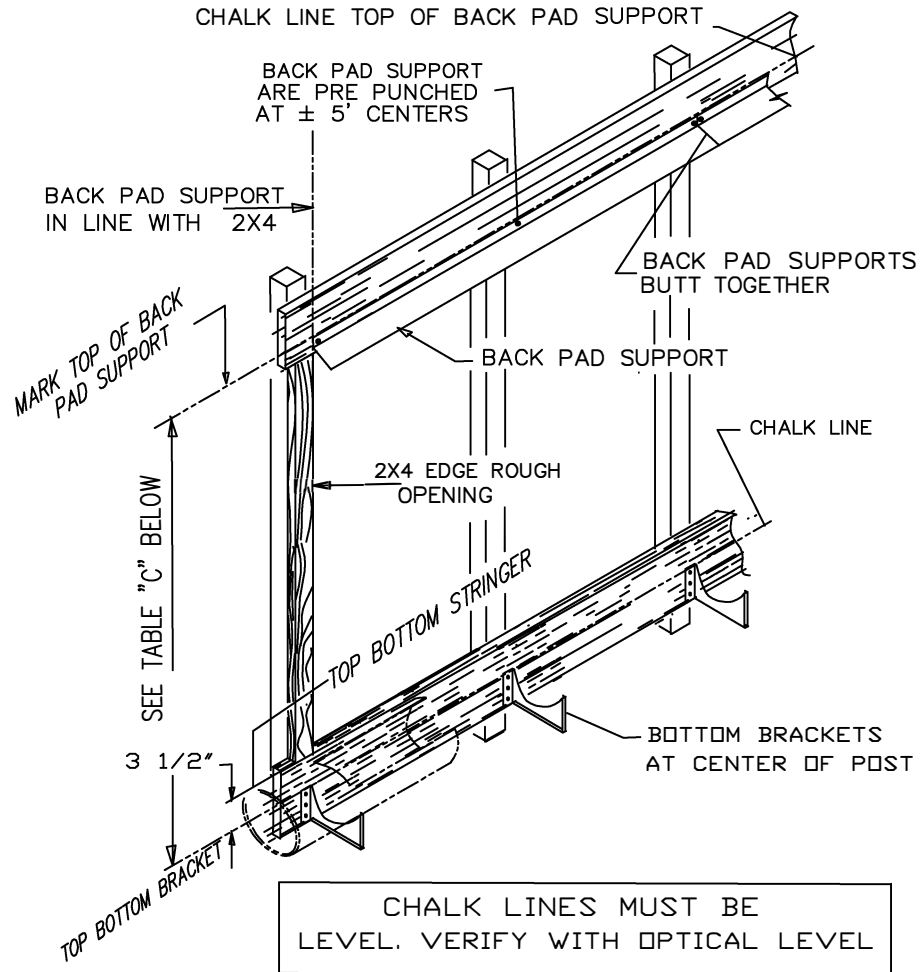
| PAD<br>HEIGHT | CLEAR<br>BETWEEN 2X10 |           |
|---------------|-----------------------|-----------|
|               | in FEET & IN          | in INCHES |
| 3'-0"         | 2'-9"                 | 33"       |
| 4'-0"         | 3'-9"                 | 45"       |
| 5'-0"         | 4'-9"                 | 57"       |
| 6'-0"         | 5'-9"                 | 69"       |

GLUE 8" PIPE TROUGH FOR CENTER FEED  
CENTRIFUGAL PUMP- CONTINUOUS PAD SYSTEM

A MINIMUM OF 2' EXTRA 8" PIPE PROVIDED



## INSTALL BACK PAD SUPPORT

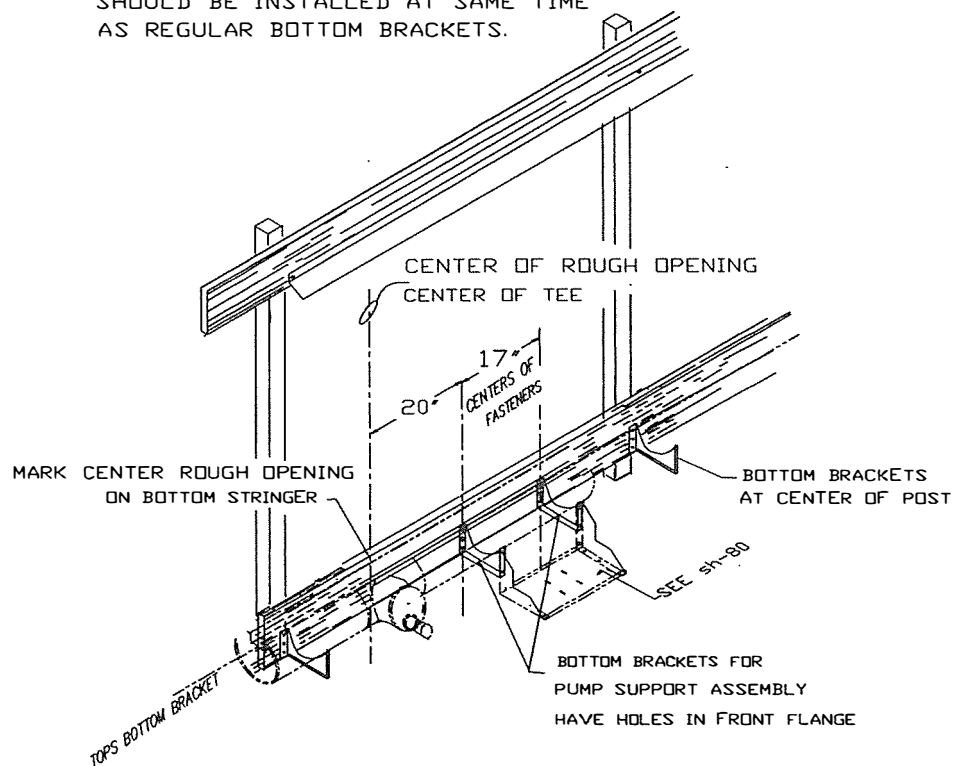


| TABLE "C"  |                                                               |         |
|------------|---------------------------------------------------------------|---------|
| PAD HEIGHT | DIMENSION BETWEEN TOP BOTTOM BRACKET AND TOP BACK PAD SUPPORT |         |
|            | IN FT. & IN.                                                  | INCHES  |
| 3' - 0"    | 3' - 3 1/2"                                                   | 39 1/2" |
| 4' - 0"    | 4' - 3 1/2"                                                   | 51 1/2" |
| 5' - 0"    | 5' - 3 1/2"                                                   | 63 1/2" |
| 6' - 0"    | 6' - 3 1/2"                                                   | 75 1/2" |

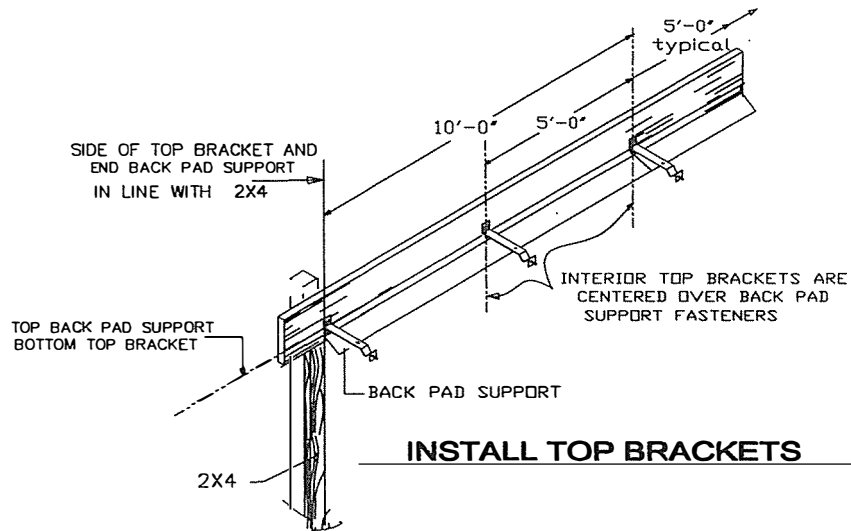
## **BOTTOM BRACKETS FOR PUMP SUPPORT ASSEMBLY**

FAILURE TO INSTALL SYSTEM  
LEVEL WILL VOID WARRANTY

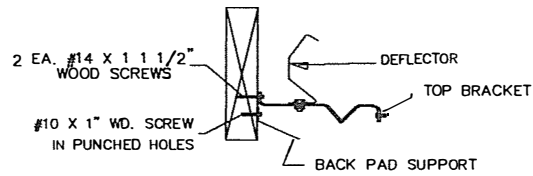
BOTTOM BRACKETS FOR PUMP SUPPORT  
SHOULD BE INSTALLED AT SAME TIME  
AS REGULAR BOTTOM BRACKETS.



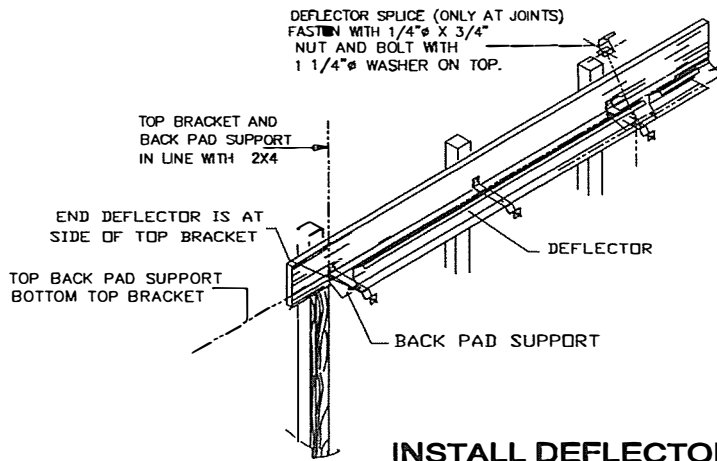
TO ASSURE ALIGNMENT THE WHOLE PUMP SUPPORT ASSEMBLY  
TO BE ASSEMBLED AND HELD IN PLACE  
WHILE FASTENER HOLES FOR THE BOTTOM  
BRACKETS ARE LOCATED ON THE BOTTOM STRINGER.  
TOPS OF ALL BOTTOM BRACKETS ARE IN LINE



### INSTALL TOP BRACKETS

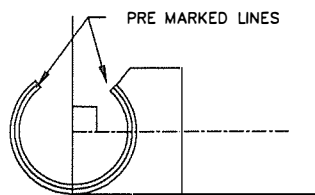


### END VIEW

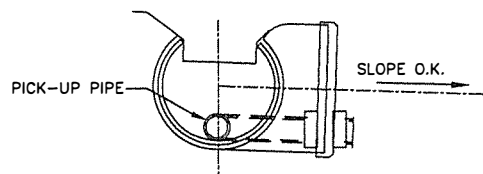


### INSTALL DEFLECTOR

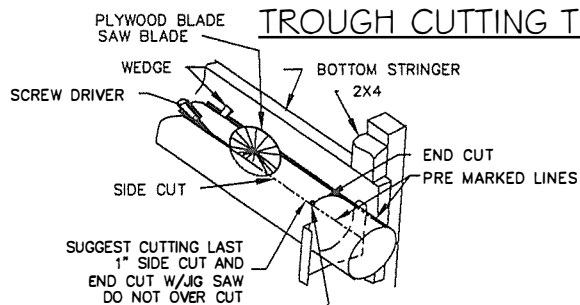
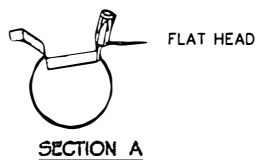
## TROUGH FABRICATION DETAILS



PIPE SECTION AT TEE BEFORE DRIP PAN



AFTER PICK-UP PIPE AND PAN HAVE BEEN  
INSTALLED A SLIGHT DOWNWARD SLOPE OF TEE  
AND PICK-UP LINE IS O.K. (PREFERRED)

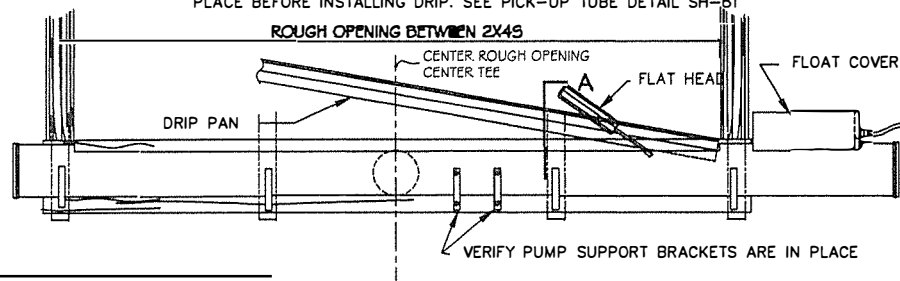


**TROUGH CUTTING TECHNIQUES**  
THE ABOVE SKETCH ILLUSTRATES STEPS OF HOW TO CUT THE PIPE TO AVOID PINCHING THE SAW BLADE. IN GENERAL THE GOAL IS TO PREVENT THE CUT OUT SECTION FROM SAGGING DOWN INTO THE PIPE SAGGING DOWN INTO THE PIPE THUS PINCHING THE SAW BLADE RESULTING IN KICK BACK AND POSSIBLY SPLIT THE PIPE

1/2" DIA. DRILL HOLE  
SEE TYPICAL DRILL DETAIL

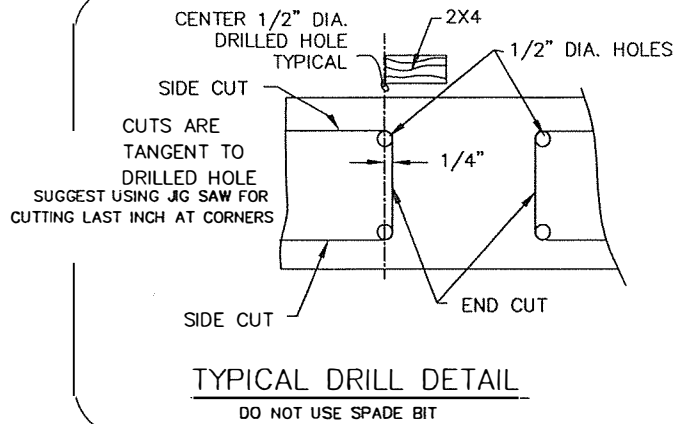
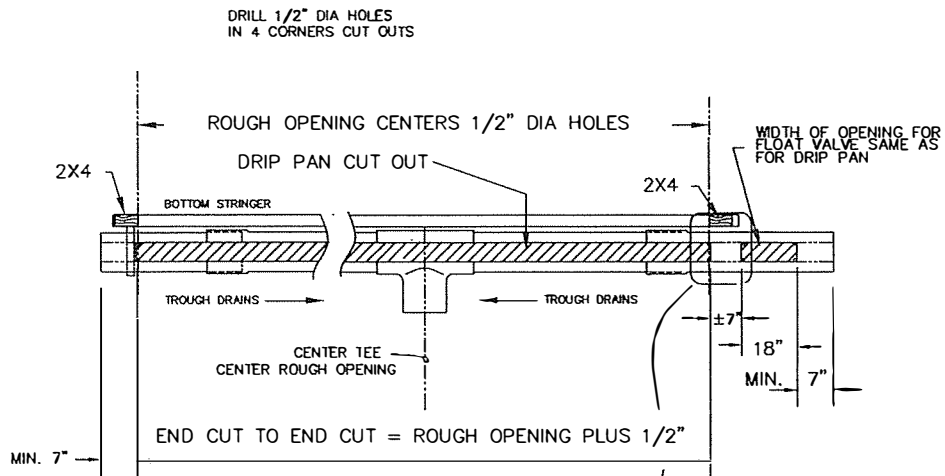
## PLACE DRIP PAN IN TROUGH

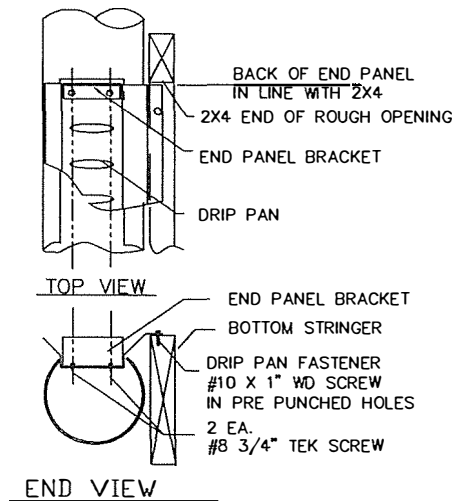
THOROUGHLY CLEAN THE TROUGH BEFORE INSTALLING THE DRIP PAN, DUE TO THE TIGHT FIT OF DRIP PAN IN THE TROUGH PIPE THE OPENING WILL MOST LIKELY REQUIRE PRYING OPEN TO "WALK IN" THE DRIP PAN. TYPICALLY A FLAT HEAD SCREW DRIVER WEDGED BETWEEN PIPE AND PAN JUST AHEAD OF THE SEATED AREA WORKS WELL. SLIGHT ROTATION OF THE PAN HELPS SEE SECTION "A" BELOW. MAKE SURE THE PICKUP LINE AND CAP ASSEMBLY ARE IN PLACE BEFORE INSTALLING DRIP. SEE PICK-UP TUBE DETAIL SH-81



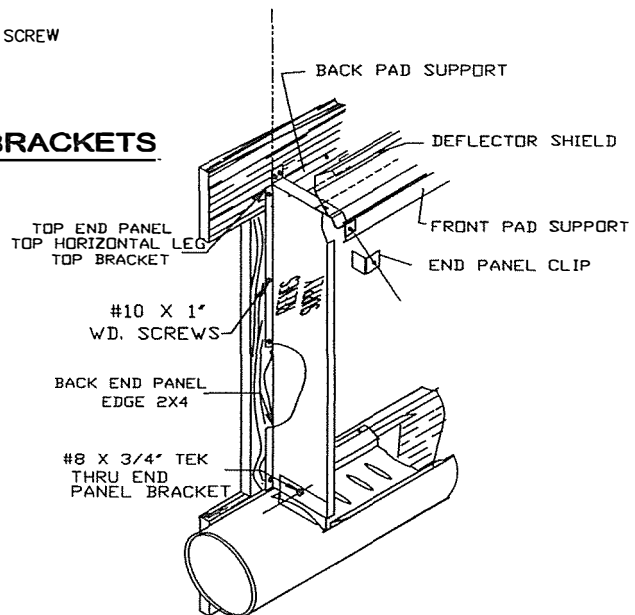
## CUT PIPE FOR CENTRIFUGAL PUMP CENTER FEED

DO NOT DISTURB GLUED PIPE  
UNTIL GLUE HAS CURED.





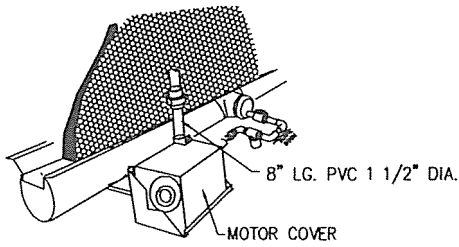
## INSTALL END PANELS BRACKETS



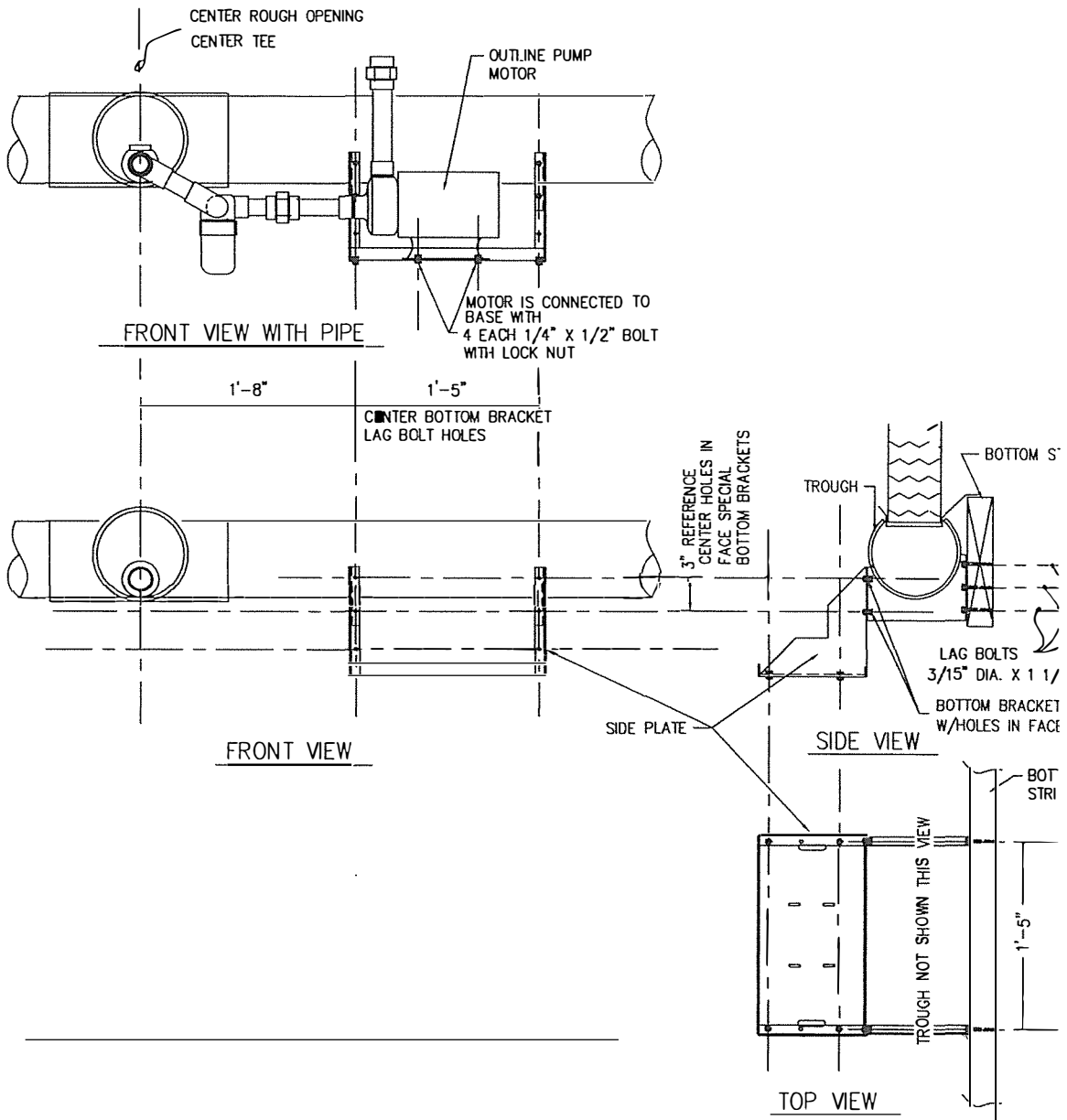
## INSTALL END PANELS

BOTH ENDS

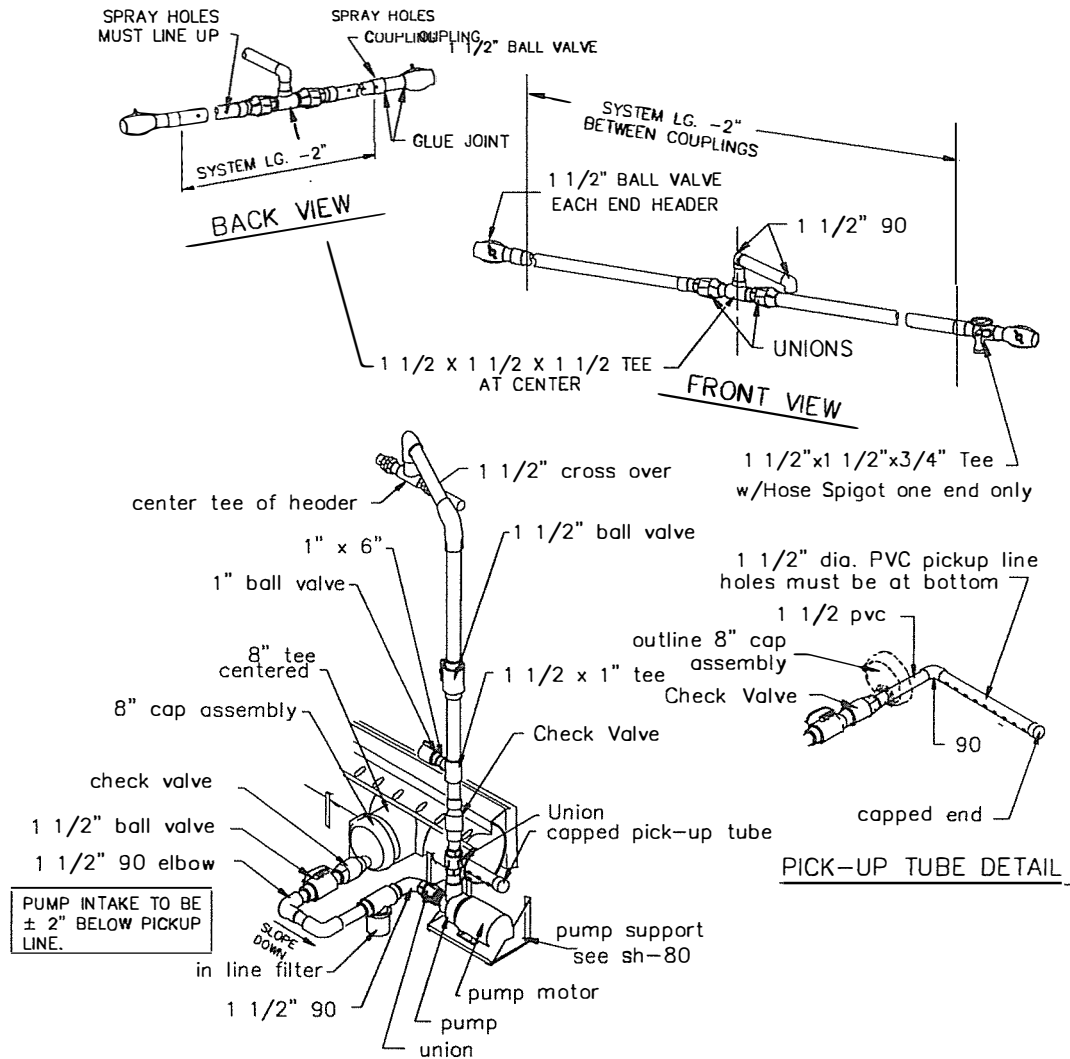
# MOTOR SUPPORT FRAME



TYPICALLY THE PUMP IS MOUNTED TO THE RIGHT OF THE CENTER TEE. AS SHOWN BELOW. SHOULD THE PUMP BE PLACED TO THE LEFT AS SHOWN IN THE SKETCH TO THE LEFT THEN AN 8" SECTION OF PIPE SHOULD BE PLACED BETWEEN UNION AND THREADED COUPLER TOP MOTOR. PLACING THE MOTOR ON THE LEFT SIDE CREATES A TIGHT CLEARANCE WITH THE 8" TROUGH.

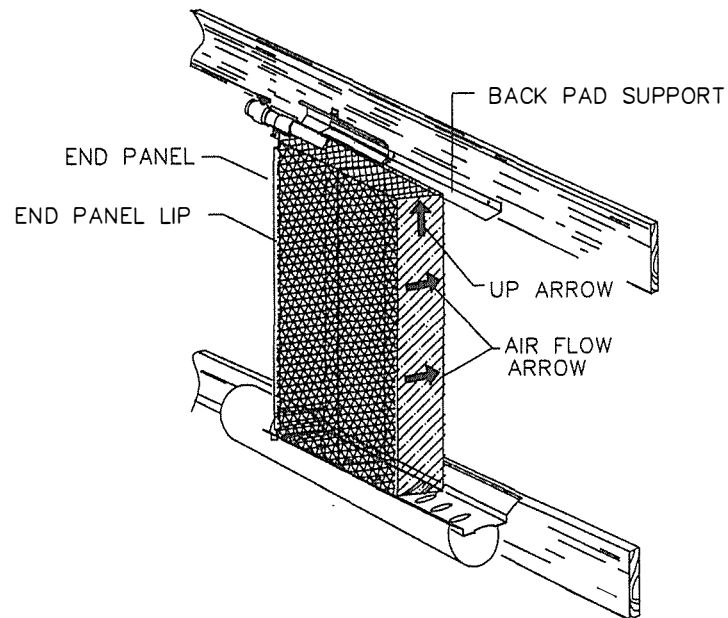


## HEADER PIPE FOR CENTER FEED CENTRIFUGAL



## SUPPLY HEADER FOR CENTRIFUGAL PUMP

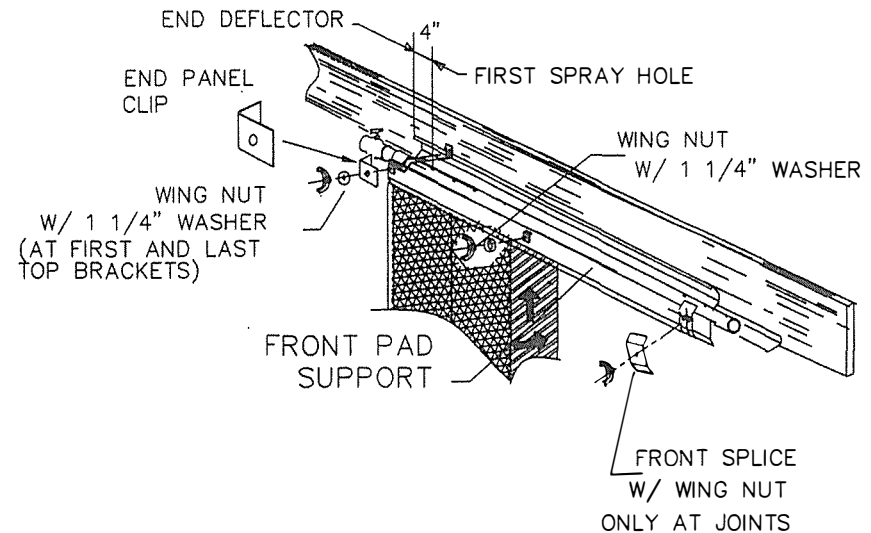
## INSTALL PADS



**NOTE:** SIDES OF PADS ARE COLORED AND MARKED WITH ARROWS TO SHOW CORRECT ORIENTATION OF PADS. MAKE SURE PADS ARE PLACED CORRECTLY.

"NEST THE FIRST PAD BEHIND LIP AGAINST THE END PANEL. INSTALL REMAINDER OF PADS TIGHTLY AGAINST THE PREVIOUSLY INSTALLED PAD. CONTINUE UNTIL THE NEXT TO LAST PAD HAS BEEN INSTALLED. IN ORDER TO INSTALL THE LAST PAD THE NEXT-TO-LAST PAD SHOULD BE SLID BEHIND FAR END PANEL LIP. THIS SHOULD PROVIDE SUFFICIENT CLEARANCE TO INSTALL THE LAST PAD.

## INSTALL FRONT PAD SUPPORT

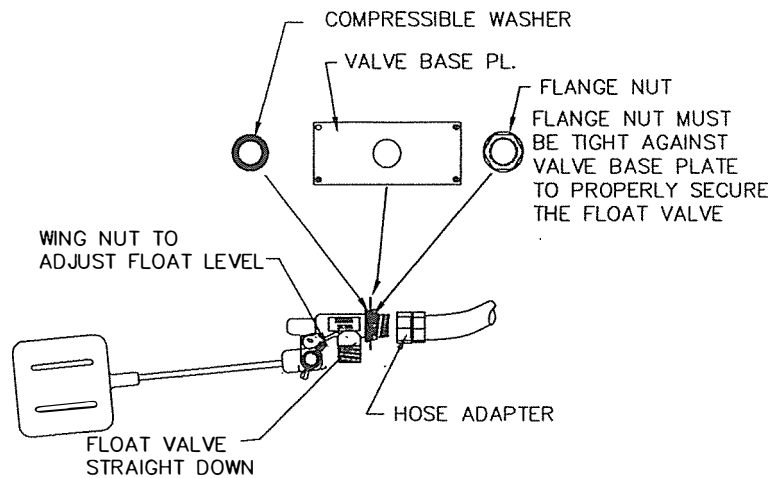
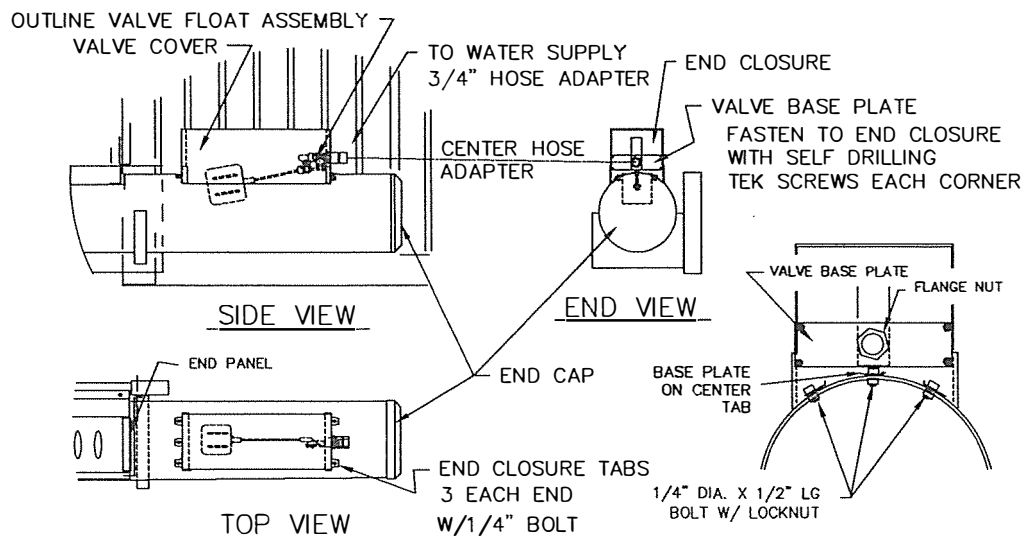


THE FRONT PANEL CAN BE INSTALLED AS PADS ARE PLACED OR AFTER ALL PADS HAVE BEEN INSTALLED.

**NOTE:** ON ALUMINUM SYSTEM PEEL OFF PVC COATING AND PLACE REEVES SUPPLY STICKER ON END PANEL.

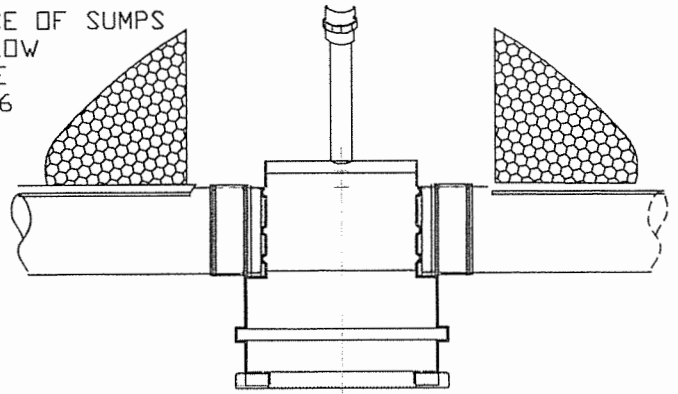
## FLOAT VALVE COVER ASSEMBLY

### FLOAT VALVE ASSEMBLY

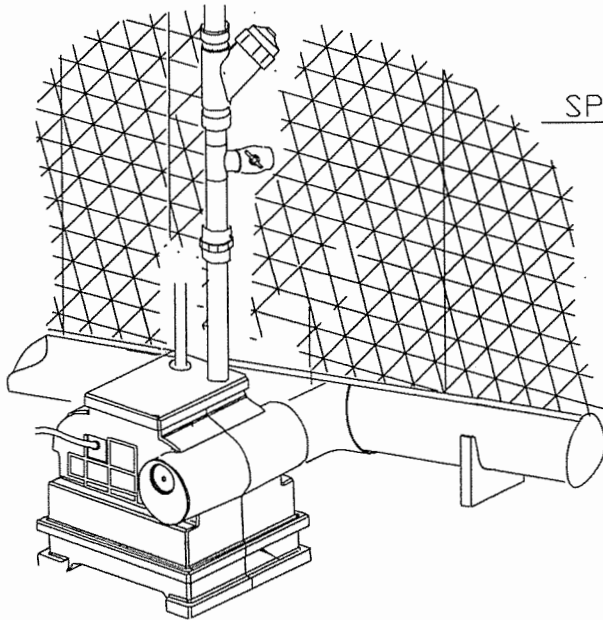


FLOAT VALVE ASSEMBLY

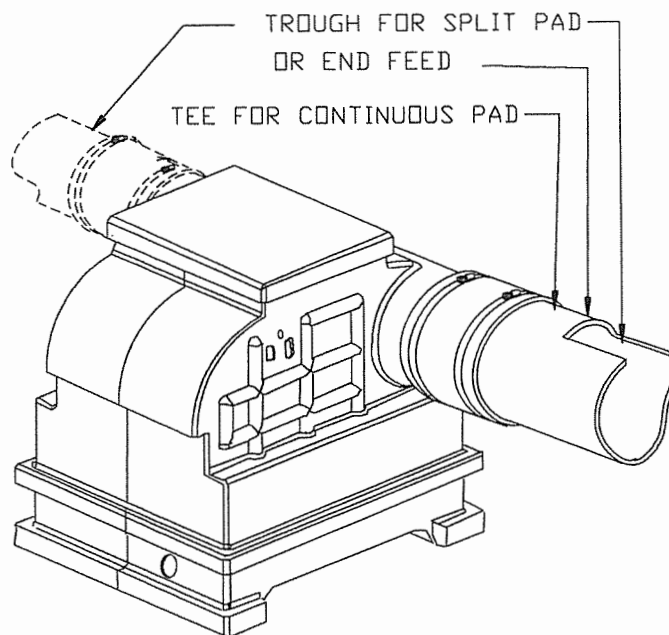
REEVES SUPPLY COMPANY OFFERS CHOICE OF SUMPS FOR THEIR SYSTEMS. THE SKETCHES BELOW SHOW A POLY TANK ALTERNATE FOR THE SUMPS WITH PVC 'TEE' SHOWN ON SH-16 IN THE MANUAL. THE 5 FOLLOWING SHEETS DETAIL THE POLY TANK OPTION. SEE sh-89



SPLIT PAD PARTIAL ELEVATION

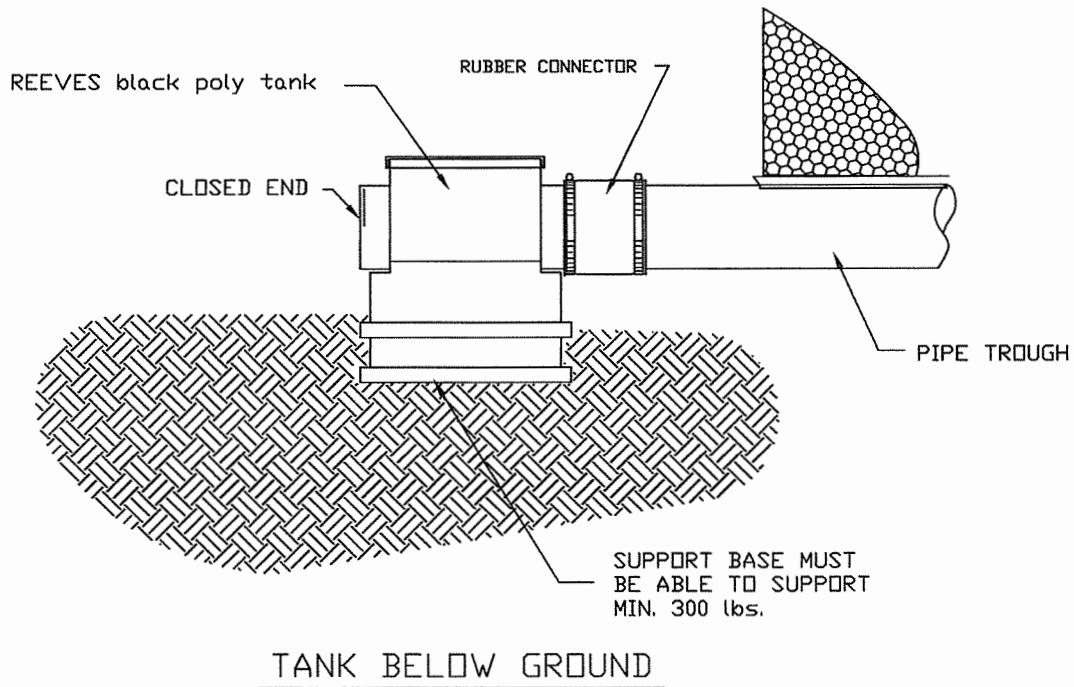
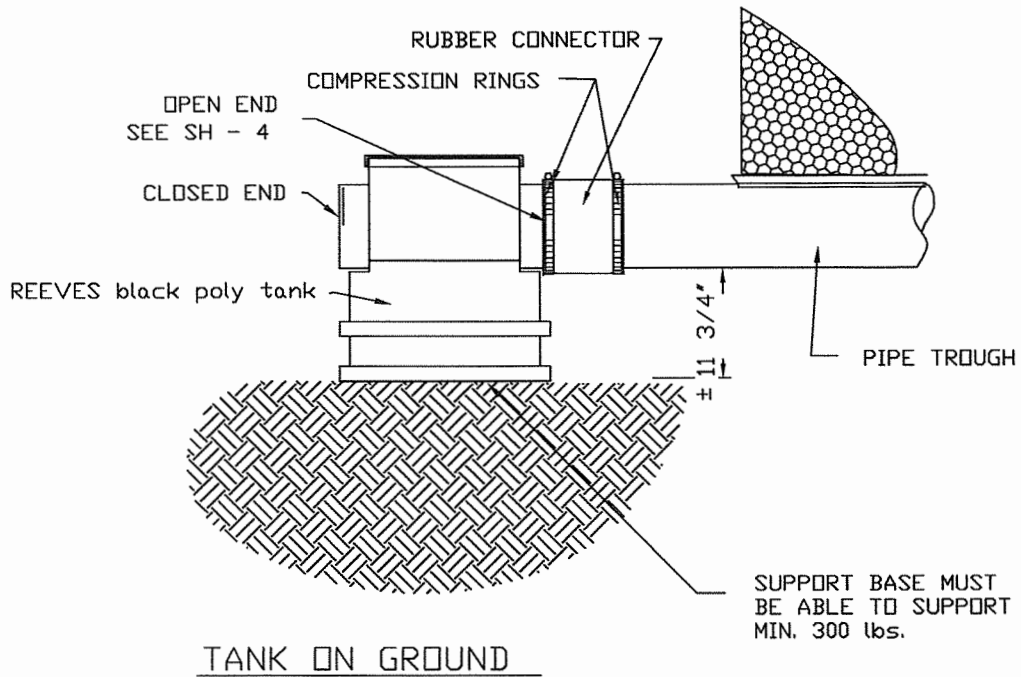


CONTINUOUS PAD PARTIAL ELEVATION

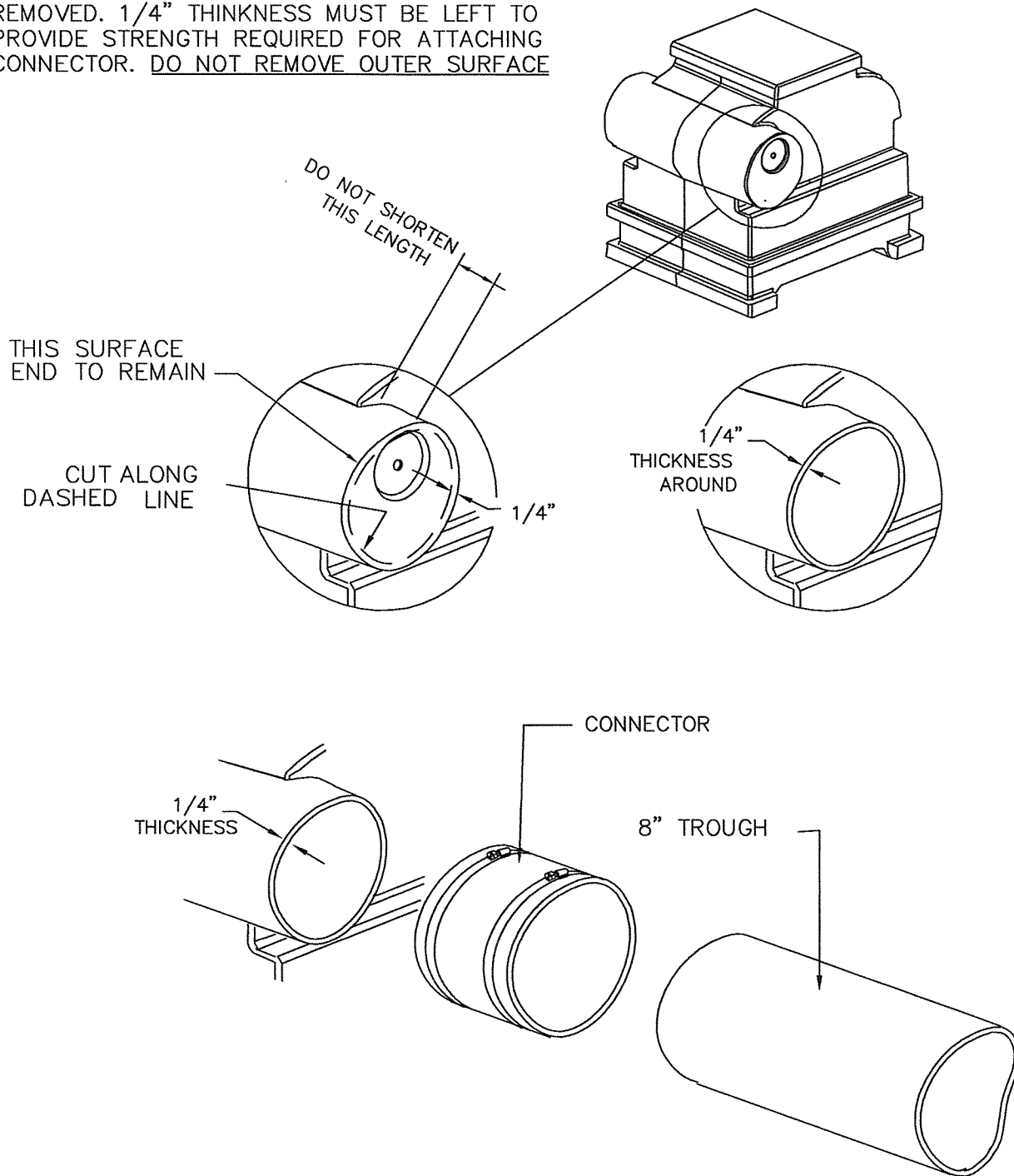


REEVES BLACK POLY TANK

VERTICAL LOCATION OF THE TANK WILL BE DETERMINED BY THE HEIGHT OF THE 8" PVC TROUGH (DRIP COLLECTOR) PIPE. WHETHER THE TANK BASE BE ON TOP OF GROUND OR BELOW TOP GROUND THE SUPPORTING SURFACE MUST BE CAPABLE OF SUPPORTING MINIMUM 300 LBS

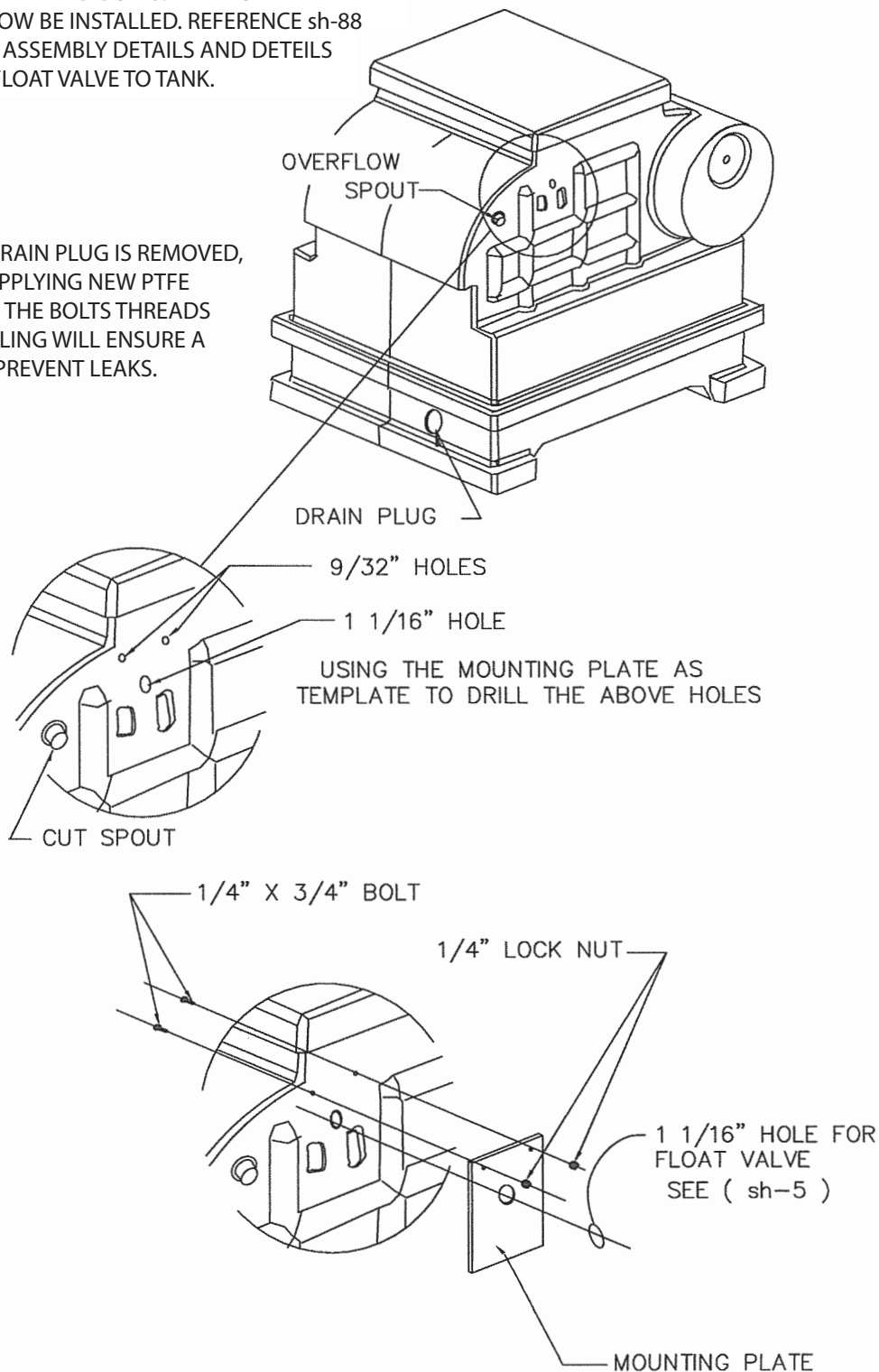


PREPING THE TANK FOR ATTACHING TO THE 8" TROUGH. THE FLAT END TO BE REMOVED AS SHOWN BELOW. IT IS CRITICAL ONLY THE FLAT SURFACE BE REMOVED. 1/4" THICKNESS MUST BE LEFT TO PROVIDE STRENGTH REQUIRED FOR ATTACHING CONNECTOR. DO NOT REMOVE OUTER SURFACE

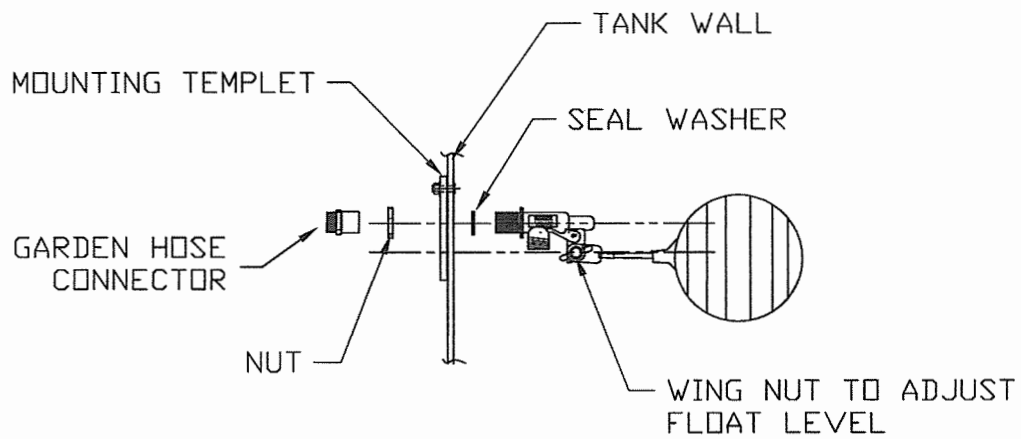


NOW THE MOUNTING PLATE CAN BE FASTENED TO THE EXTERIOR SURFACE OF THE TANK WITH THE 2 EA. 1/4" X 3/4" lg. WAFER HEAD BOLTS. THE FLOAT VALVE ASSEMBLY CAN NOW BE INSTALLED. REFERENCE sh-88 FOR FLOAT VALVE ASSEMBLY DETAILS AND DETAILS FOR ATTACHING FLOAT VALVE TO TANK.

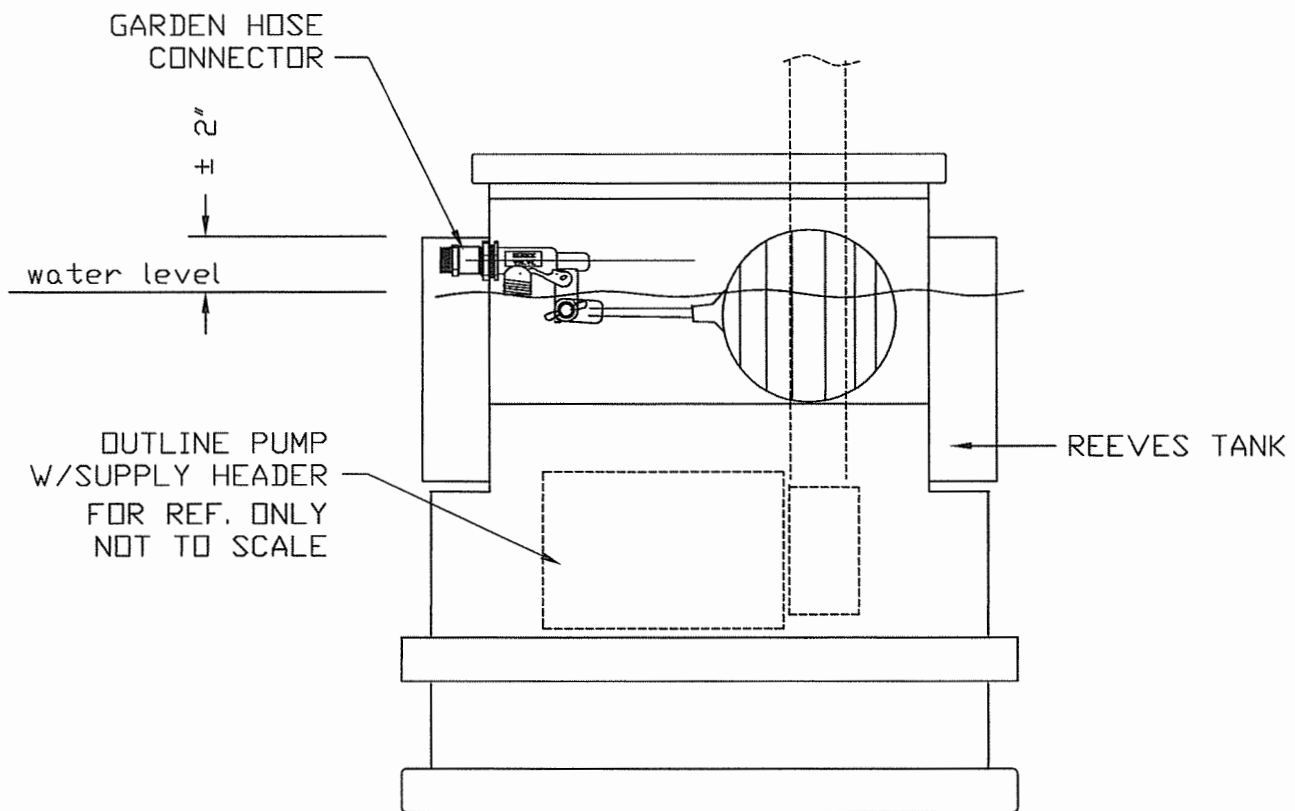
WHENEVER THE DRAIN PLUG IS REMOVED, CLEANING AND APPLYING NEW PTFE (TEFLON) TAPE TO THE BOLTS THREADS BEFORE REINSTALLING WILL ENSURE A PROPER SEAL TO PREVENT LEAKS.



## FLOAT VALVE ASSEMBLY AND INSTALLATION



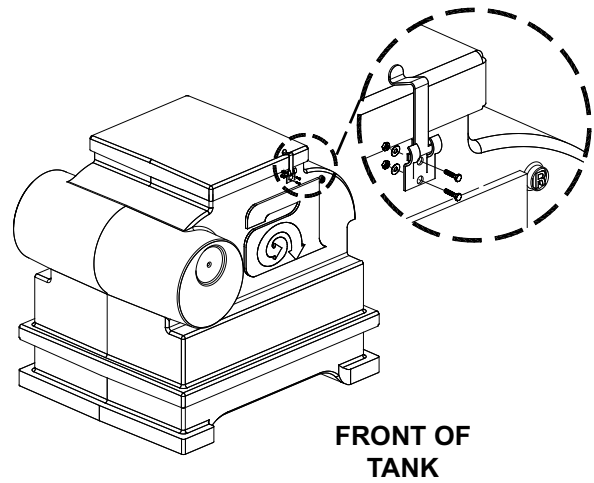
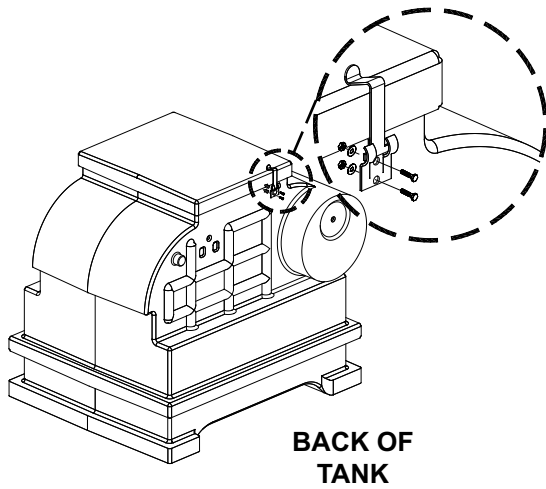
### FLOAT VALVE ASSEMBLY



### ASSEMBLED TANK

### Latch attachment / Final Fit Up

Drill (4)  $\frac{3}{16}$ " holes to install snap fasteners using the supplied hardware at locations ***shown below***. Place the lid on the tank before drilling holes. Use the snap fastener for hole patterns.



Cut tank lid to fit around the  $1\frac{1}{2}$ " or 2" water supply line connected to the pump. Make the cut to match the location of the pump. ***Shown below***.

