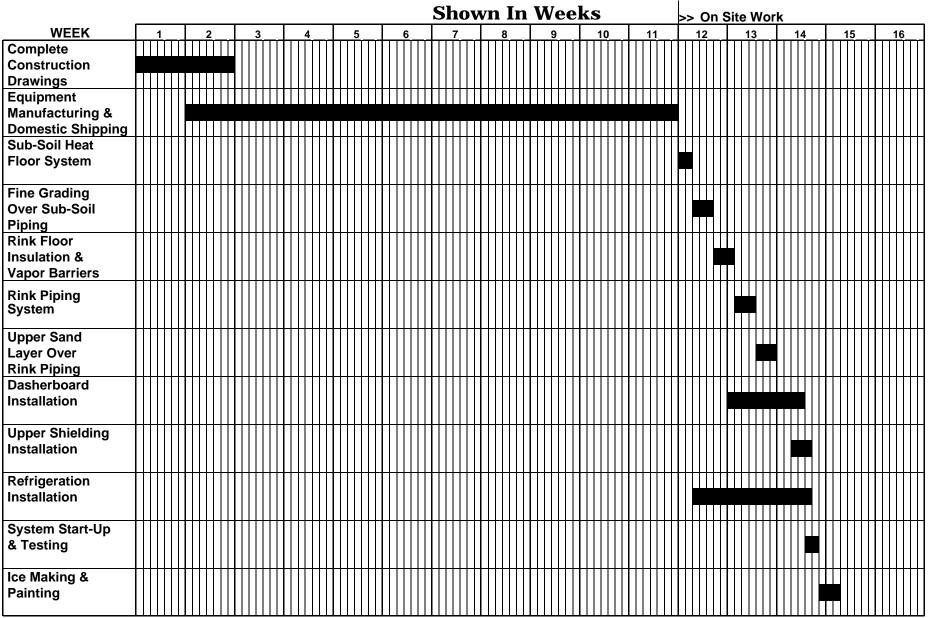
## Typical Ice Rink System Design Drawings



# Project Schedule, Typical Estimate 200' x 85' Permanent Sand Base Rink System Installation



<sup>\*</sup> Dehumidification System Installed By Mechanical Contractor Not Shown
All Scheduling Based Upon 7 Day On site 10 Hour Per Day Work Schedule By Qualified Personnel

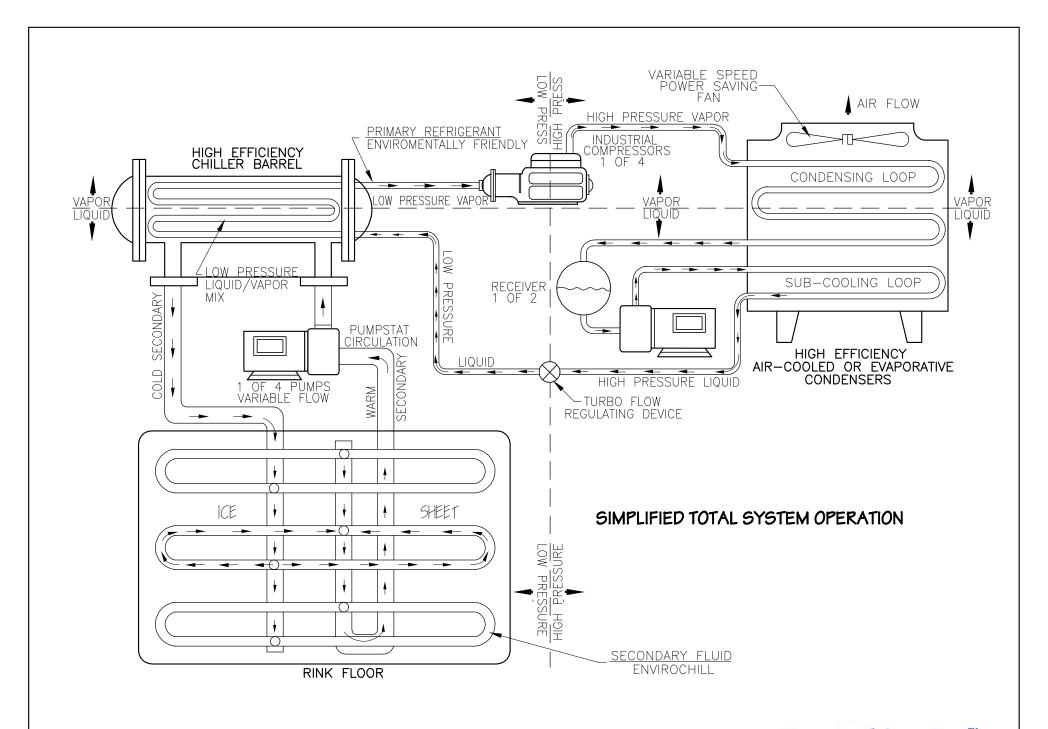
### MAN HOURS REQUIRED FOR TYPICAL INSTALLATION PROCESS

Listed is estimated man hours along with equipment required on-site to complete the job. Supervision is not included.

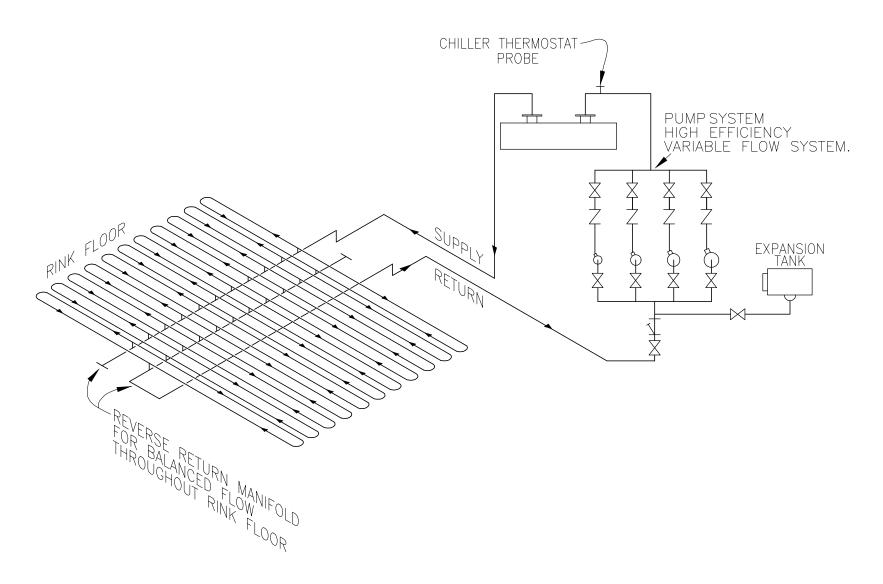
	ESTIMATED MAN HOURS
SUB-SOIL (FLOOR PORTION ONLY)  Air Compressor Fluid Charging Pump Assorted Hand Tools	60
FINE GRADING  Payloader, 2 YD Bucket minimum  LaserGrader If Available  Vibatory Plate Compactors  Laser Level Device  Assorted Hand Tools	250
INSULATION & VAPOR BARRIER  Cutting Tools  Assorted Hand Tools	125
RINK PIPING SYSTEM  Fork Truck Air Compressor Assorted Hand Tools Electric Socket Drivers Fluid Charging Pump	225
DASHER BOARD SYSTEM & UPPER SHI  Rotary Hammer Drill  Assorted Hand Tools  Fork Truck	ELDING 450
SUB-HEAT MECHANICAL Standard Refrigeration Tools Air Compressor Fluid Charging Pump	80
REFRIGERATION UNIT  Standard Refrigeration Tools Air Compressor Fluid Charging Pump Standard Plumbing Tools Crane For Rigging & Placement	200

# Ice Rink Refrigerant Flow Diagrams Design Drawings

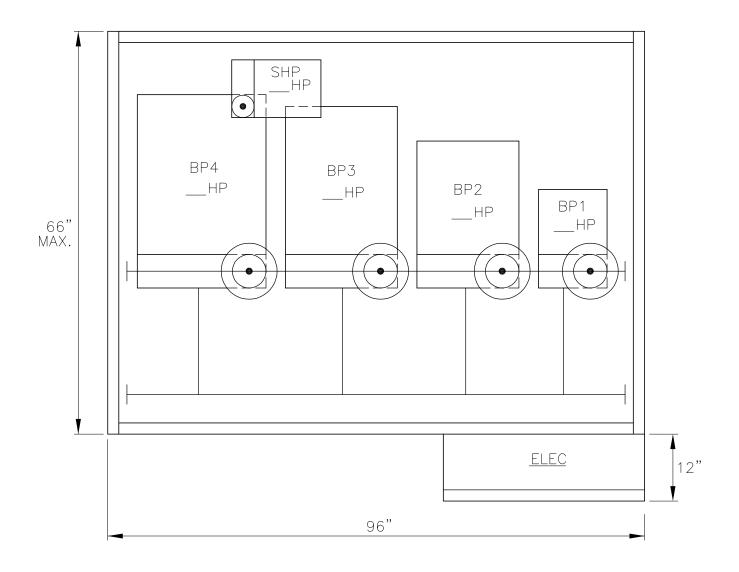








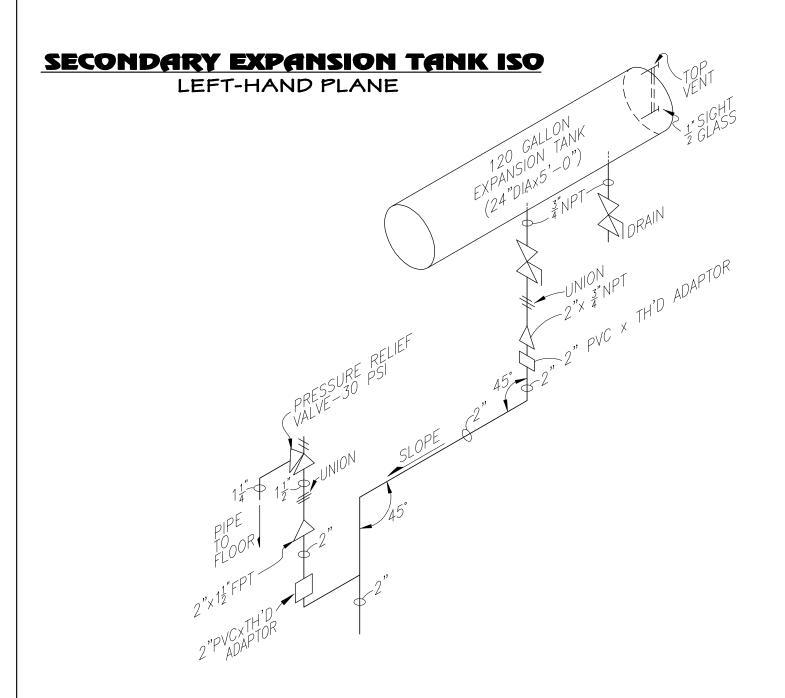
#### SINGLE RINK SECONDARY FLUID FLOW DIAGRAM

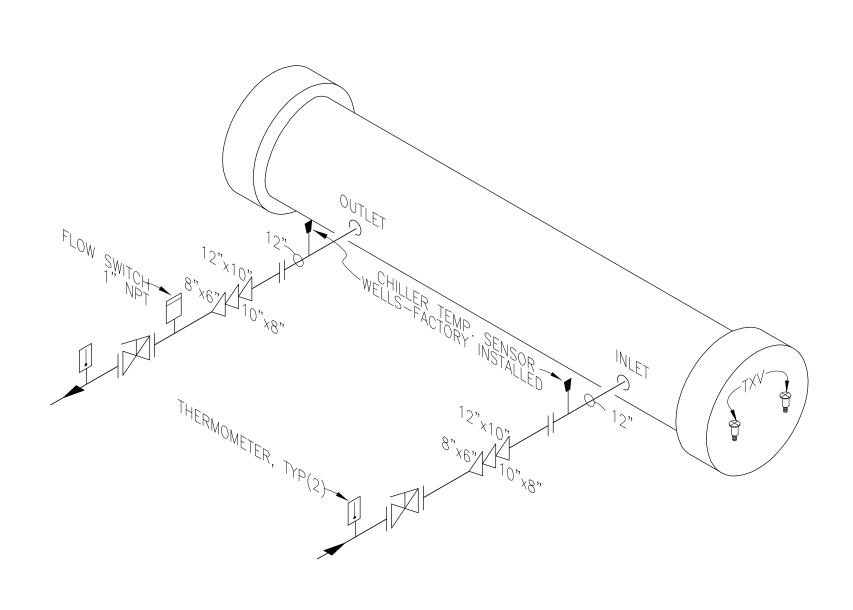


#### **4 PUMPSKID LAYOUT TEMPLATE**

PUMPSTAT SKID:			
BP4:      HP;      GPM (GPM (GPM (GPM (GPM (GPM (GPM (GPM (	<pre>@FT. HD</pre> @FT. HD	x;	
SECONDARY FLUID:% _ MOTOR VOLTAGE:/ PUMP MFGR:	/		
PRESSURE TRANSDUCER,	To Br	BP BP BP	D BP1 2

#### 4 PUMP-PUMPSTAT SKID ISO REVERSED LEFT HAND PLANE



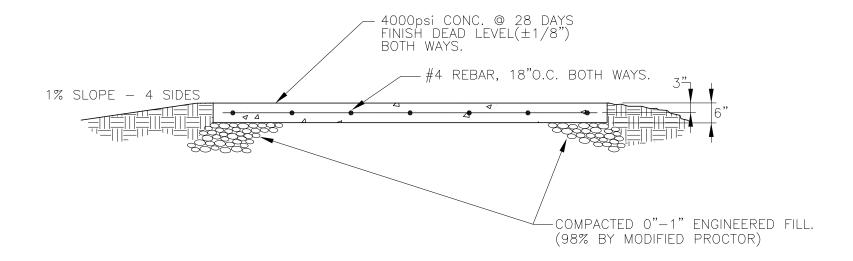


### **EVAPORATOR ISO**

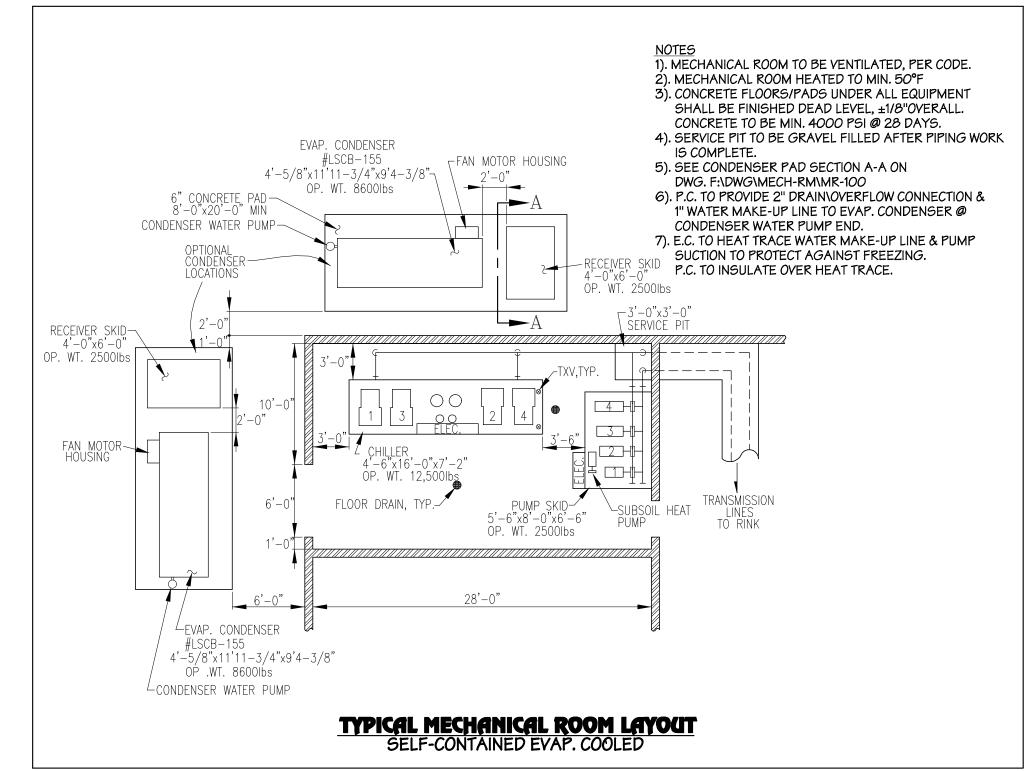
**RIGHT-HAND PLANE** 

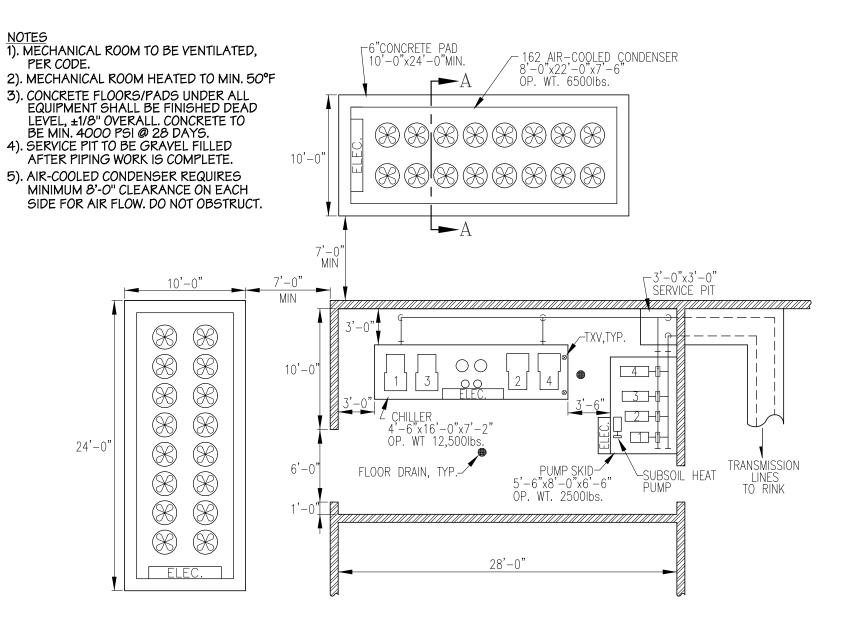
## Ice Rink Refrigeration Mechanical Room Layout Design Drawings





## ST'D 6- CONCRETE CONDENSER PAD SECTION A-A





## TYPICAL MECHANICAL ROOM LAYOUT CHILLER/AIR-COOLED

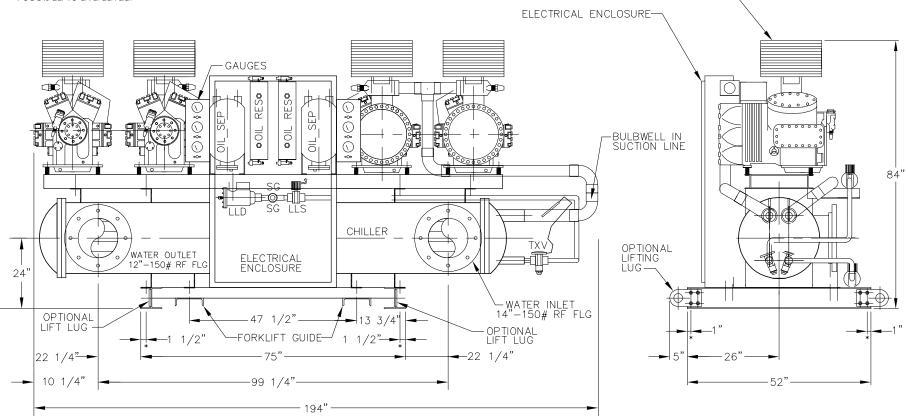
# Ice Rink Refrigeration System Design Drawings





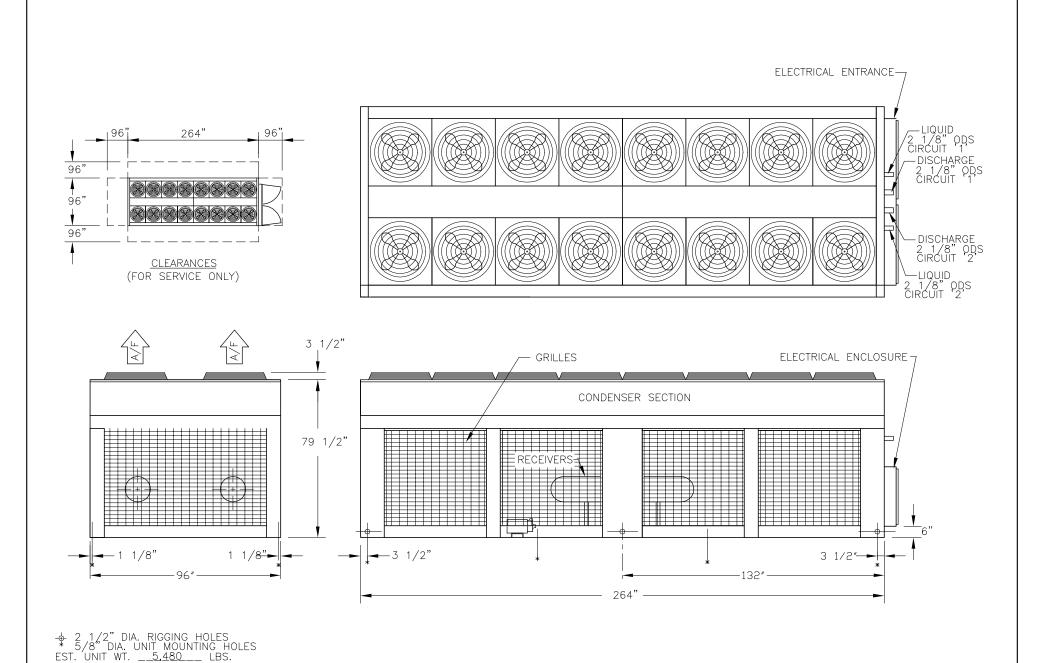
#### **NOTES**

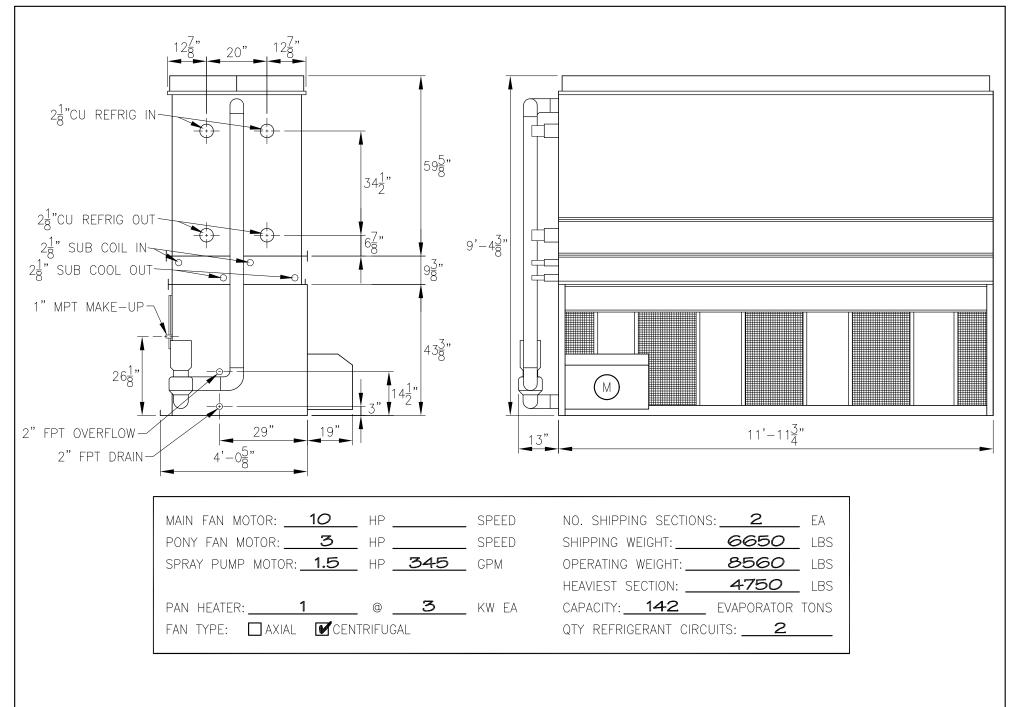
- PAINT COLOR TO BE "BRS" BLUE CLEAN ALL PIPING SOLDER JOINTS FOR PAINT ADHESION COYER ALL IDENTIFICATION PLATES PRIOR TO PAINTING
- 2. COMPRESSOR CONDUITS TO BE ROUTED UNDER MOTORS NOT OVER.
- CONTROL ITEMS TO BE MOUNTED IN DOOR: HOUR METERS, LEAD LAG SWITCHES, PUMP DOWN SWITCHES, JOG BOTTONS, POWER ON LITE, & COMPRESSOR RUN LITES.
- TEMPERATURE CONTROLLER TO BE SHIPPED LOOSE.
   GAUGES AND LIGHTS TO BE MOUNTED AS NEARLY AS POSSIBLE TO EYE LEVEL.



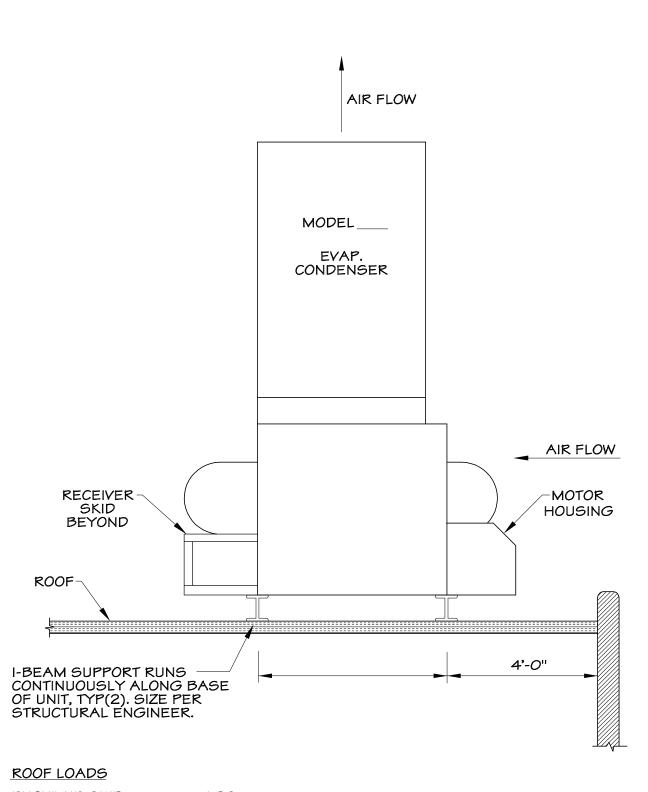
COMPRESSOR COOLING FAN-

- 2-1/2" DIA. RIGGING HOLES 5/8" DIA. UNIT MOUNTING HOLES EST. UNIT WT. 10,100 LBS.





## **EVAPORATIVE CONDENSER**MODEL LSCB-155 200E50L



RECEIVER SKID:\_\_\_\_\_ LBS

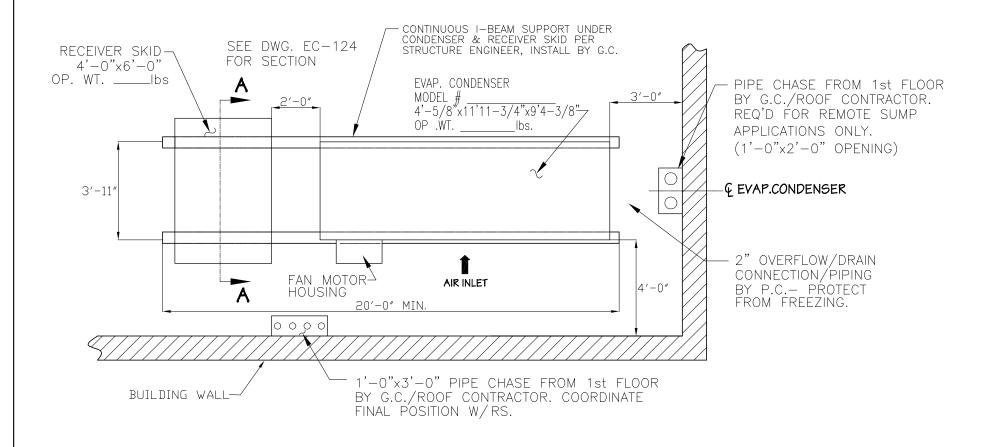
EVAP CONDENSER: \_\_\_\_ LBS



#### TYP ROOFTOP EVAP CONDENSER INSTALLATION

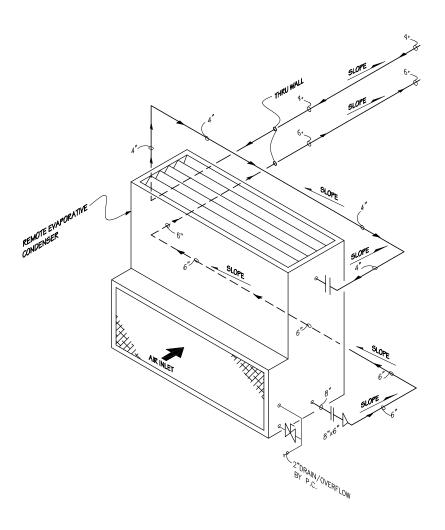
#### NOTES:

- 1) BEAMS SHOULD BE SIZED IN ACCORDANCE WITH ACCEPTED STRUCTURAL PRACTICES. MAXIMUM DEFLECTION OF BEAM UNDER UNIT TO BE 1/360 OF LENGTH, NOT TO EXCEED 1/2" OVERALL. DEFELCTION MAY BE CALCULATED USING 55% OF THE TOTAL OPERATING WEIGHT AS A UNIFORM LOAD ON EACH BEAM.
- 2) STEEL BEAM MUST RUN CONTINUOUSLY UNDER PAN SECTION OF CONDENSER, AND MUST BE LEVEL WITHIN 1/8" IN 6". CONDENSER UNIT CANNOT BE LEVELED BY SHIMMING.
- 3) STRUCTURAL STEEL BASE TO BE DESIGNED BY OWNER'S ENGINEER. INSTALLATION BY G.C. STRUCTURE MUST BE IN PLACE BEFORE EQUIPMENT DELIVERY BY BRS.
- 4) OWNER'S ENGINEER SHALL VERIFY ROOF LOAD CAPABILITY & PROVIDE STRUCTURAL SUPPORT FOR TOTAL OPERATING WEIGHT OF EVAP CONDENSER AND RECEIVER SKID. COORDINATE ANY REQUIRED COLUMNS WITH EQUIPMENT LOCATIONS IN ROOM BELOW.
- 5) UNIT MUST BE LOCATED FOR UNOBSTRUCTED AIRFLOW & AIR INLET & DISCHARGE.



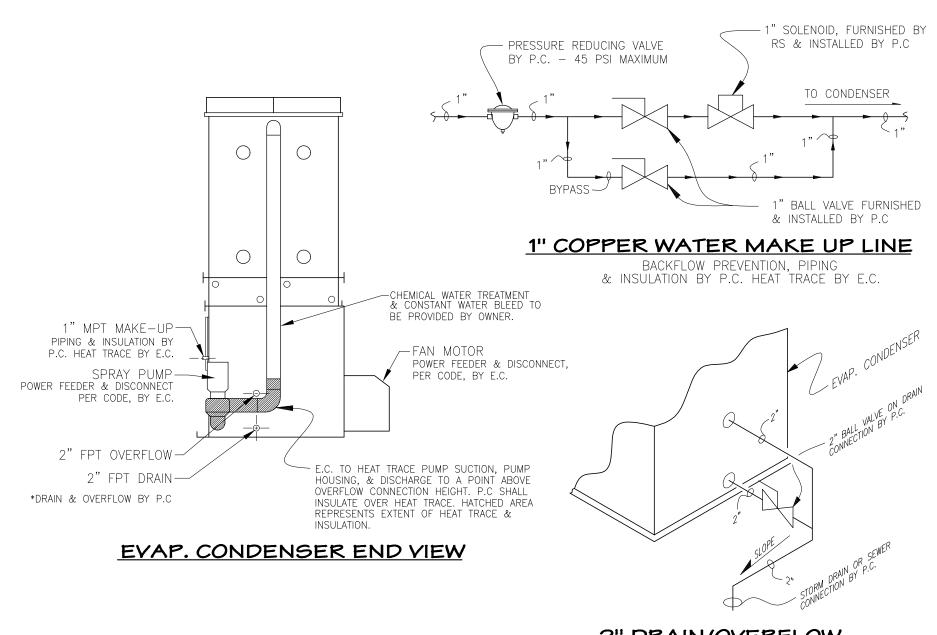
### **EVAPORATIVE CONDENSER**

TYPICAL ROOF LAYOUT



### **EVAPORATIVE CONDENSER**

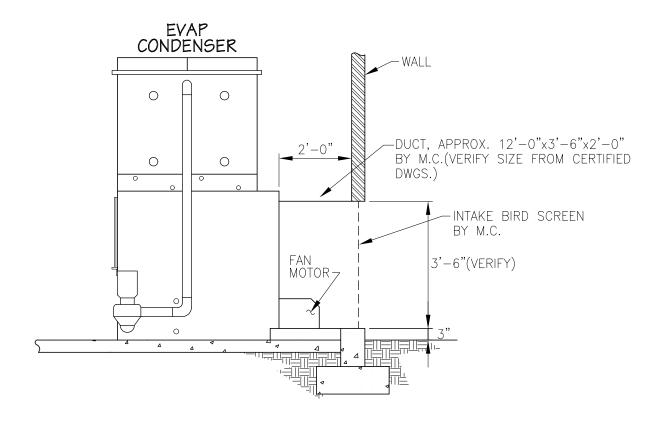
TYPICAL SPLIT SUMP APPLICATION



#### 2" DRAIN/OVERFLOW

PIPING BY P.C.

## **EVAPORATIVE CONDENSER**FIELD WORK BY OTHER CONTRACTORS

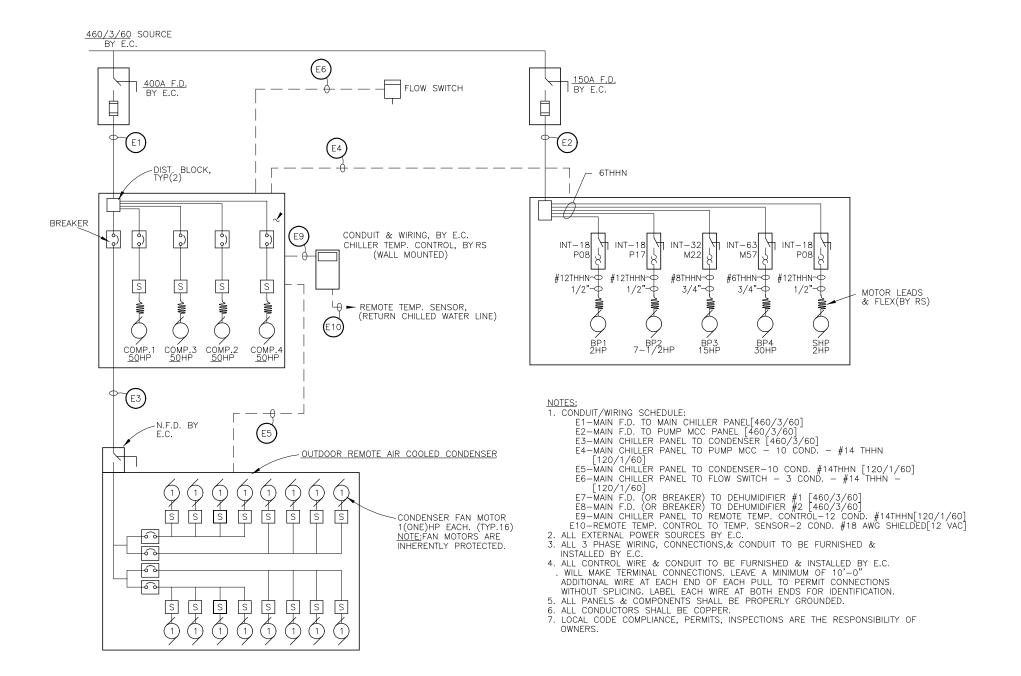


#### **EVAP. CONDENSER INTAKE DUCT**

# Ice Rink Refrigeration Electrical Design Drawings



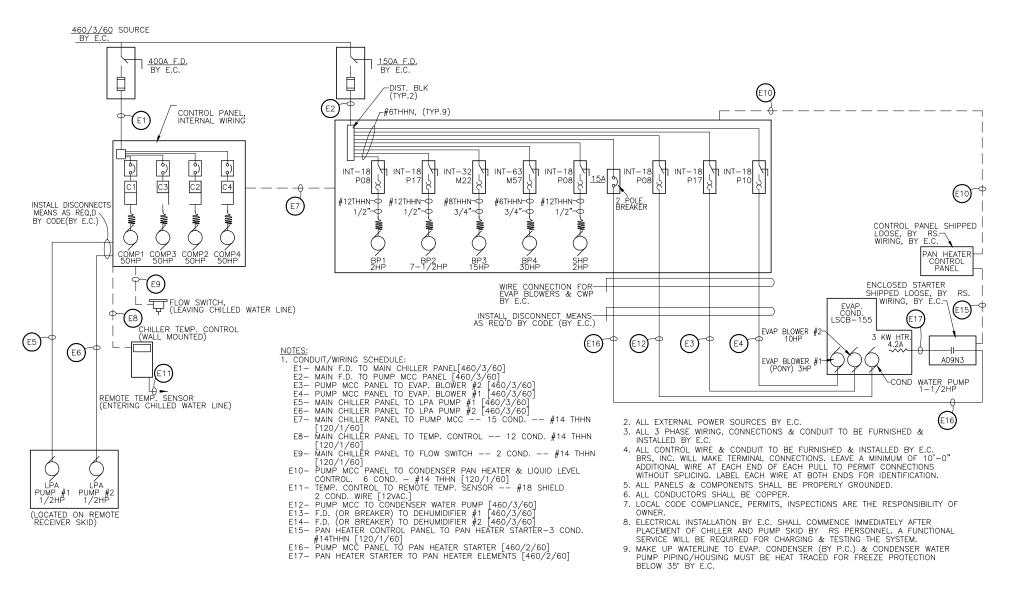




#### **ELEC-MECH POWER WIRING**

AIR COOLED

200 HP 4 Compressor Rink Chiller w/4 Pump System

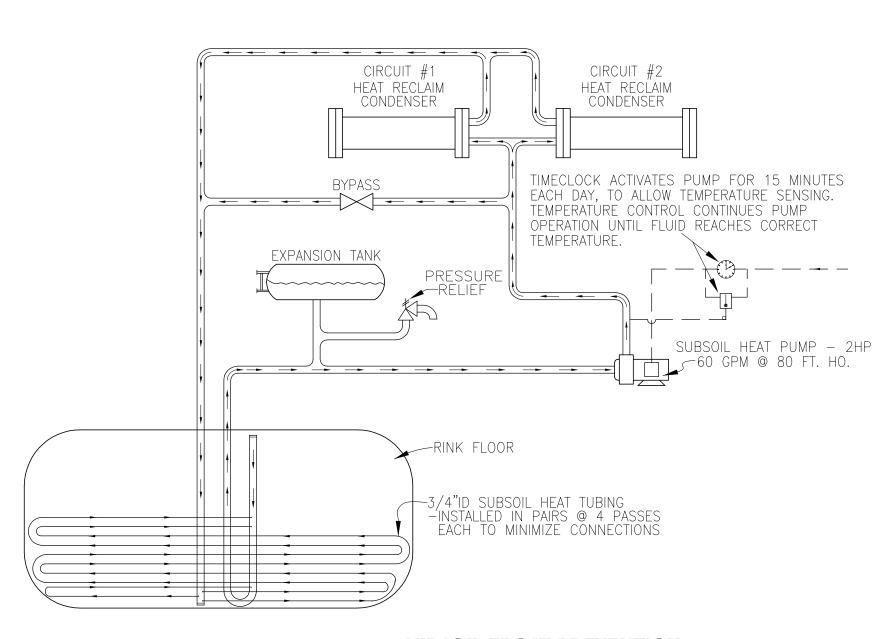


#### **ELEC-MECH POWER WIRING**

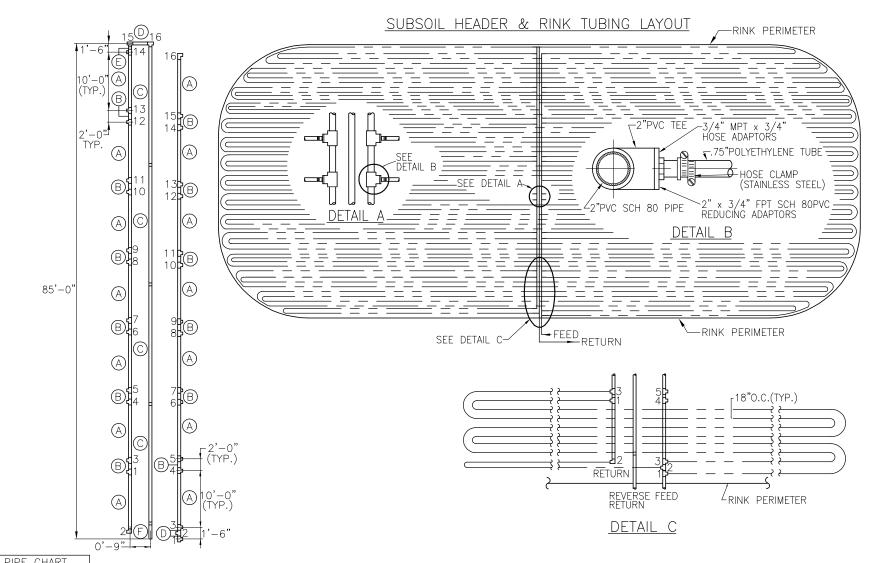
EVAP COOLED 200E50L/460 VOLT-4 PUMP

## Ice Rink Sub-Soil Heat Design Drawings





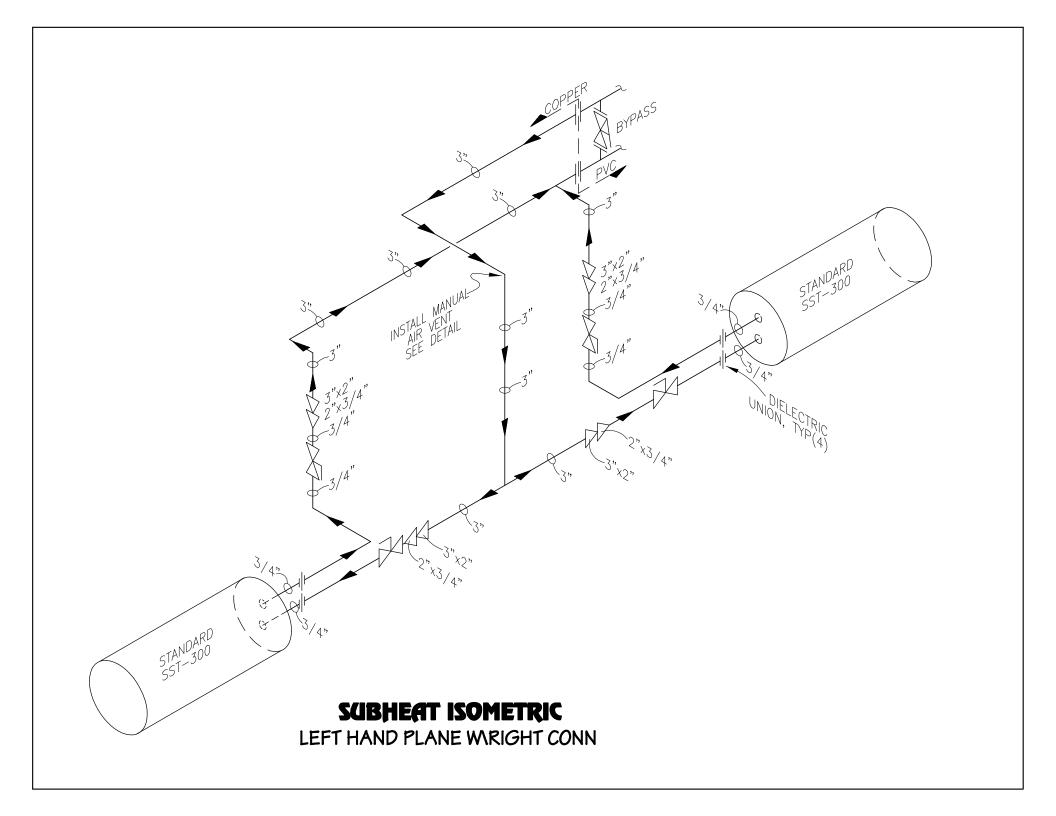
## SUBSOIL FROST PREVENTION PIPING SCHEMATIC

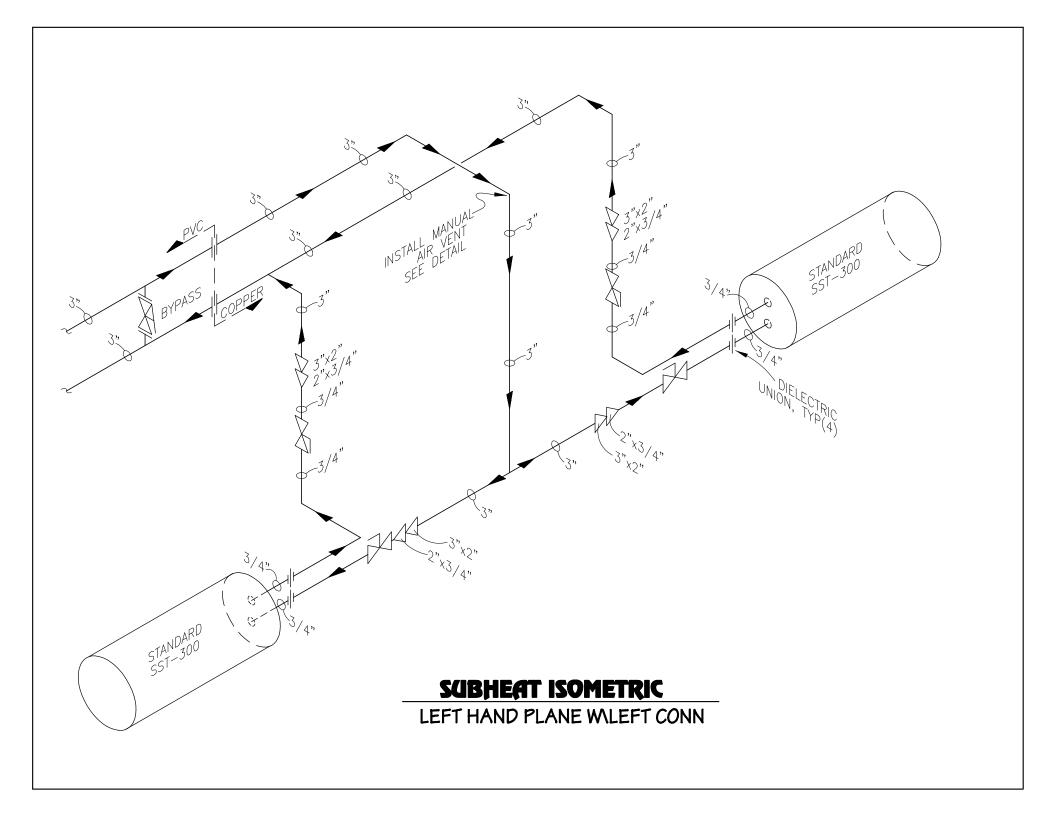


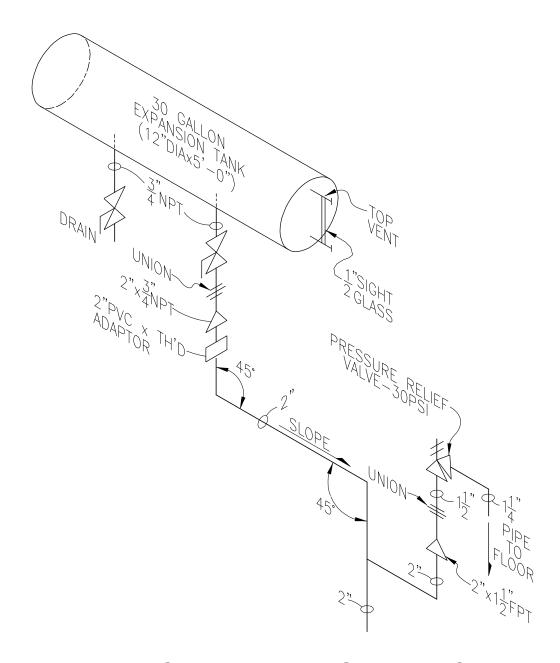
PIPE CHART		
LTR	QTY.	LENGTH
Α	14	9'-9"
В	12	1'-9"
$\circ$	4	20'-0"
D	3	0'-6"
Ε	1	1'-3"
F	1	V.I.F.

**SUBSOIL HEAT SYSTEM** 









### SUB-SOIL HEAT EXPANSION TANK ISO

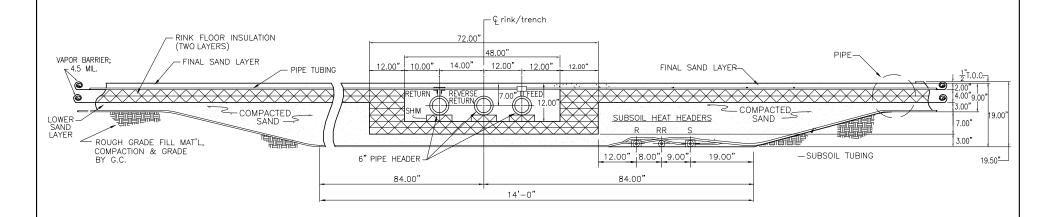
RIGHT-HAND PLANE

## Ice Rink Floor Piping Sand Base Design Drawings



#### NOTE:

- 1) ALL ELEVATIONS MEASURED FROM LOWEST POINT IN TOP OF CURB(T.O.C.). 2) EXCAVATION OF MAIN HEADER TRENCH BY G.C.
- 3) RINK ROUGH GRADE (BY G.C.) TO BE FINISHED TO +0/-1" TOLERANCE.
- 4) ROUGH GRADE COMPACTION (BY G.C.) MINIMUM 98% BY MODIFIED PROCTOR.
- 5) SEE PERMA-PIPE CURB DWG #SF-102 FOR ADDITIONAL INFO.
- 6) EXCAVATION, BACKFILL, & CONCRETE OVER TRANSMISSION LINE TRENCH (BY G.C.)

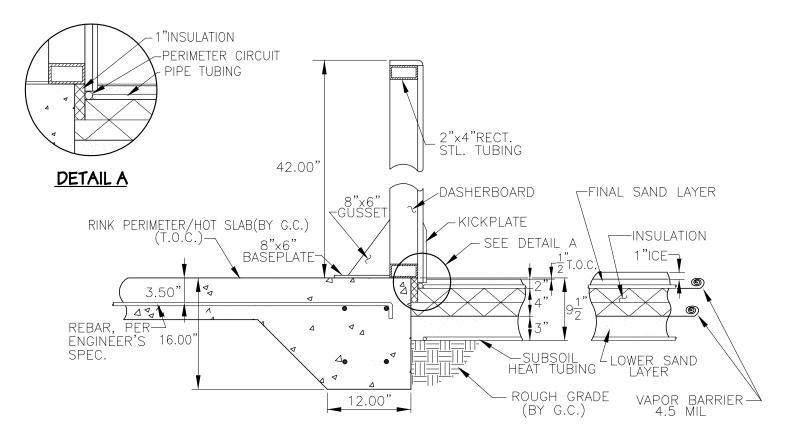


#### **HEADER TRENCH FLOOR CROSS SECTION**

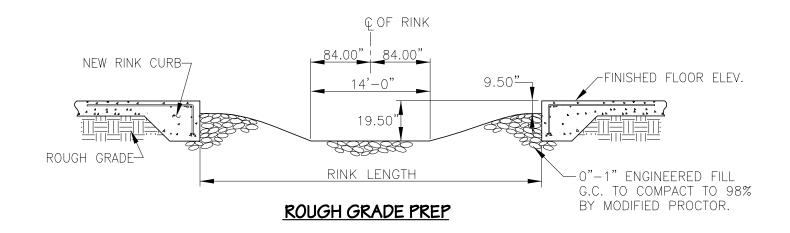
PERMANENT SAND BASE RINK

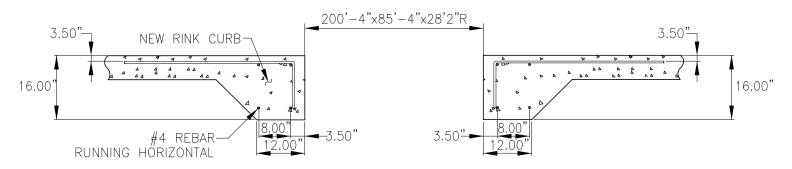
#### NOTES:

1. ALL ELEV. MEASURED FROM LOWEST POINT IN TOP OF CURB(T.O.C.)
2. PERIMETER CONCRETE MIN. 4000 psi @ 28 DAYS ELEV.
±1/8"/10'-0"; 3/8" OVERALL.



## PERIMETER CURB/DASHER CROSS SECTION SAND BASE FLOOR

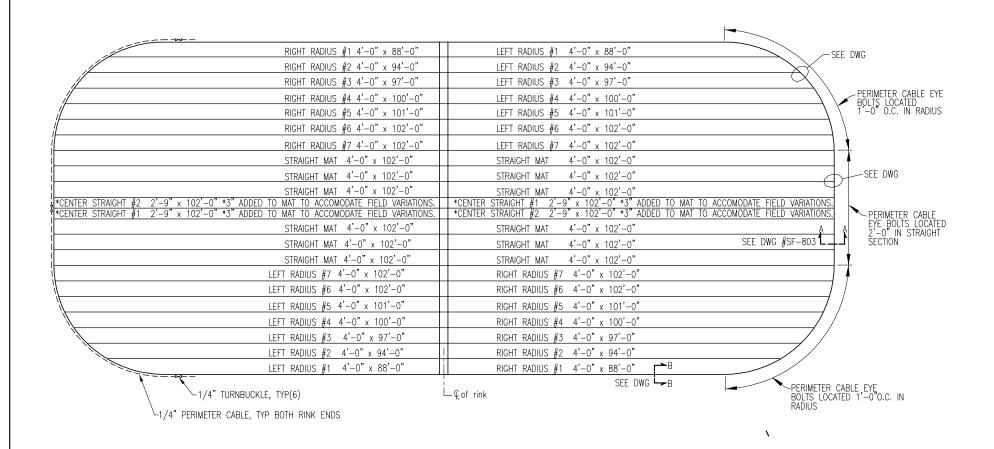




NEW CONCRETE RINK PERIMETER CURB MIN. 4000 PSI @ 28 DAYS. FINISH TO  $\pm 1/8$ " IN 10'-0".

#### **EXCAVATION & CURB SECTION**

SAND BASE FLOOR

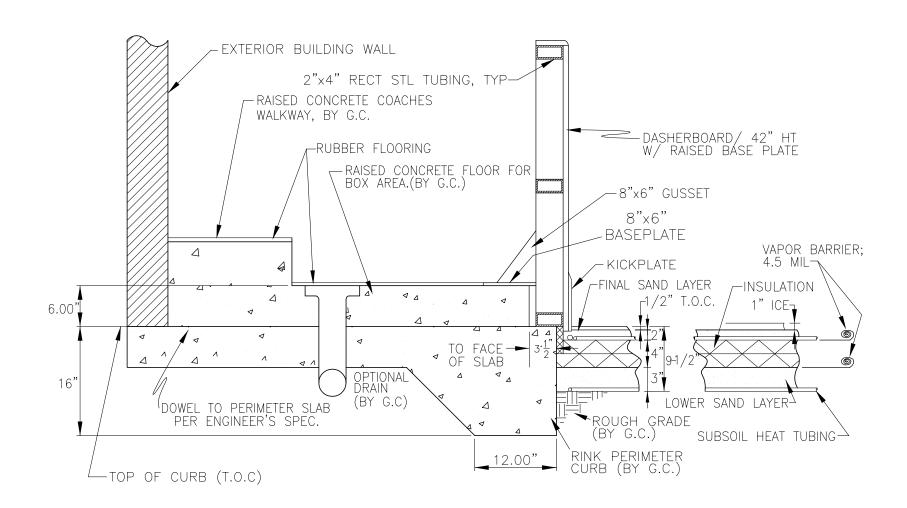


FINISHED RINK 200'-0"x85'-0"28'-0"P

# PIPE MAT LAYOUT PERMANENT SAND BASE RINK

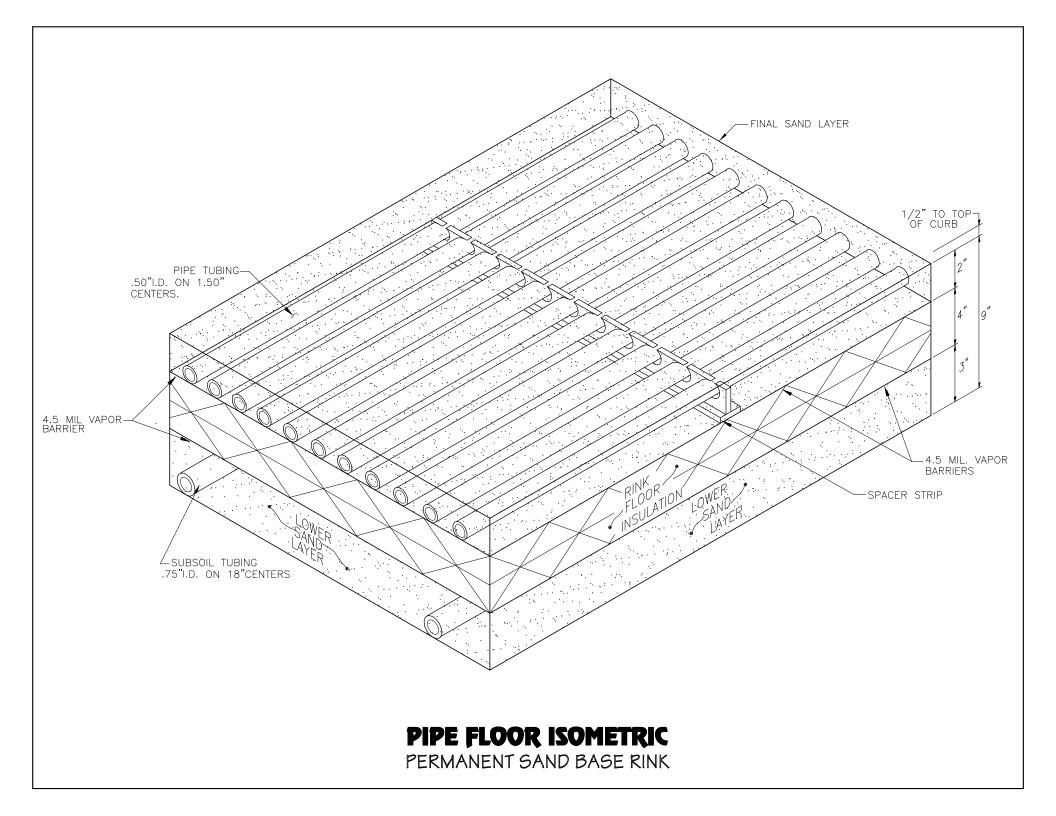
#### NOTES:

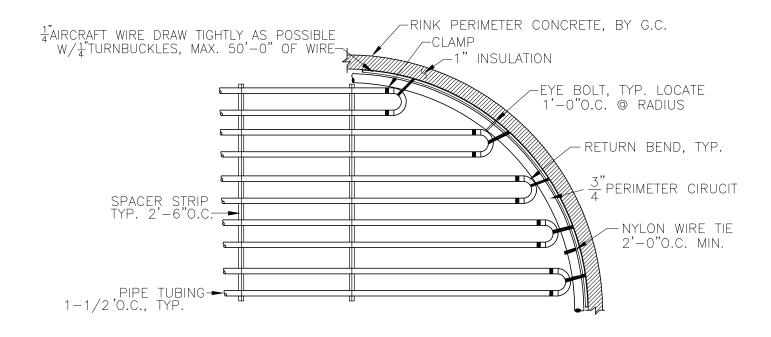
- 1. ALL ELEV. MEASURED FROM LOWEST POINT IN TOP OF CURB(T.O.C.)
- 2. PERIMETER CONCRETE MIN. 4000 psi @ 28 DAYS ELEV. ±1/8"/10'-0"; 3/8" OVERALL.



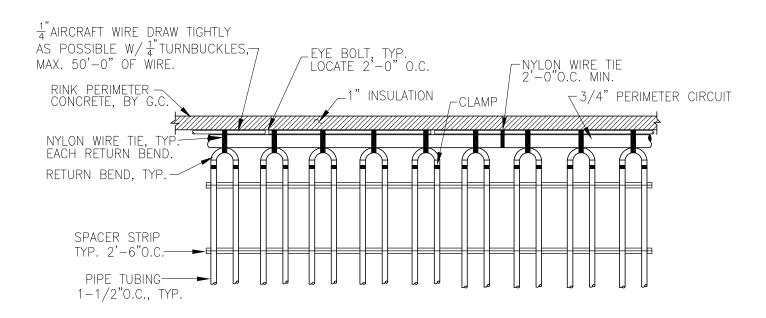
#### RAISED CONCRETE FLOOR/BOX AREA

SAND BASE FLOOR

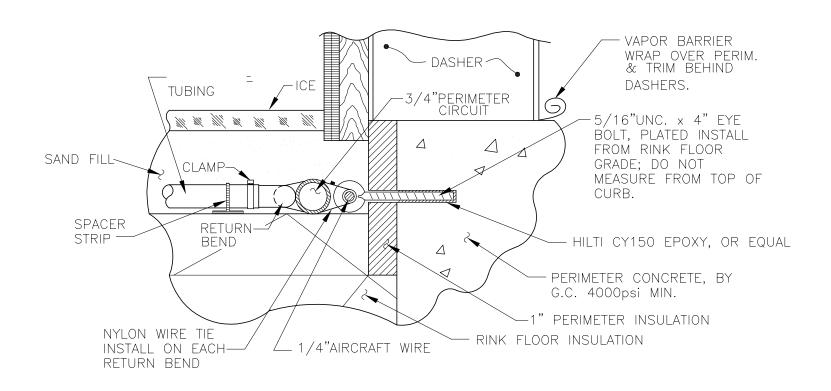




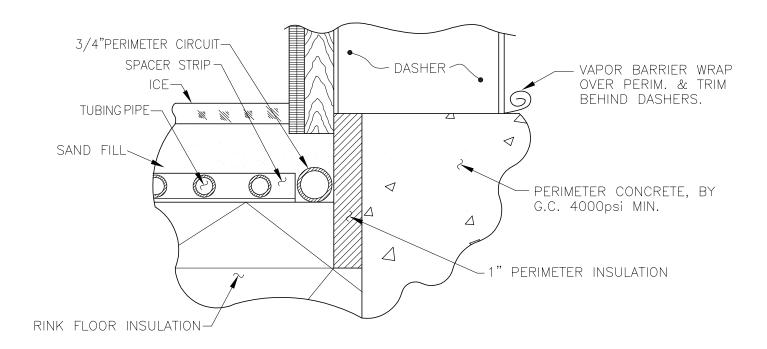
#### RADIUS PERIMETER CABLE @ RINK END



#### STRAIGHT SECTION PERIMETER CABLE



#### **RINK END PERIMETER CIRCUIT**



#### RINK SIDE PERIMETER CIRCUIT

FINISH SEE BACK OF PRINT

SHAPE SYMMETRICAL & PERPENDICULAR

CUT MUST HAVE 32 HOLES PER LENGTH

BOW N/A

FUNCTION PART MUST SEPARATE COMPLETELY
AT TOP OF THE HOLE.

PART: T-SPACER

MATERIAL: SANTOPRENE 70089051

(A).860 TO .920

(B).720 TO .780

(C).110 TO .140 TYP

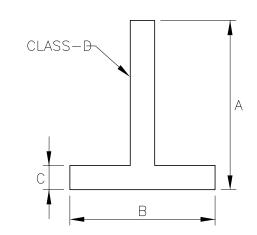
(D).750 REF TYP

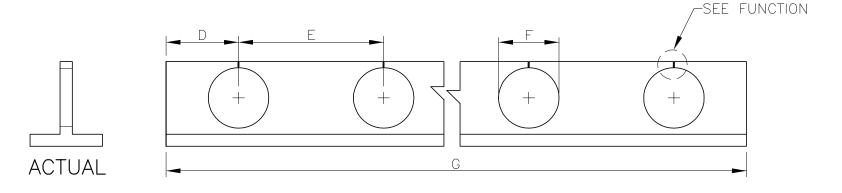
(E) 1.500 REF TYP

(F).615 TO .635

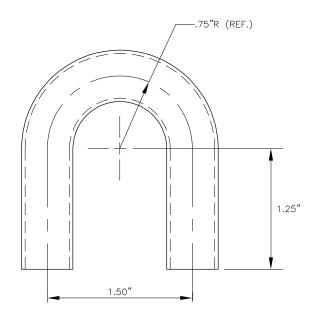
 $\bigcirc$  47-1/2" TO 48"

NOTE: MUST HAVE 32 HOLES PER LENGTH.



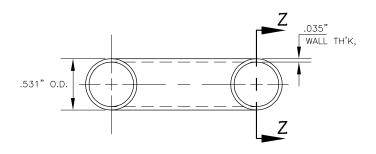


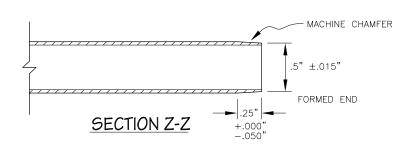
#### PIPE SPACER STRIP



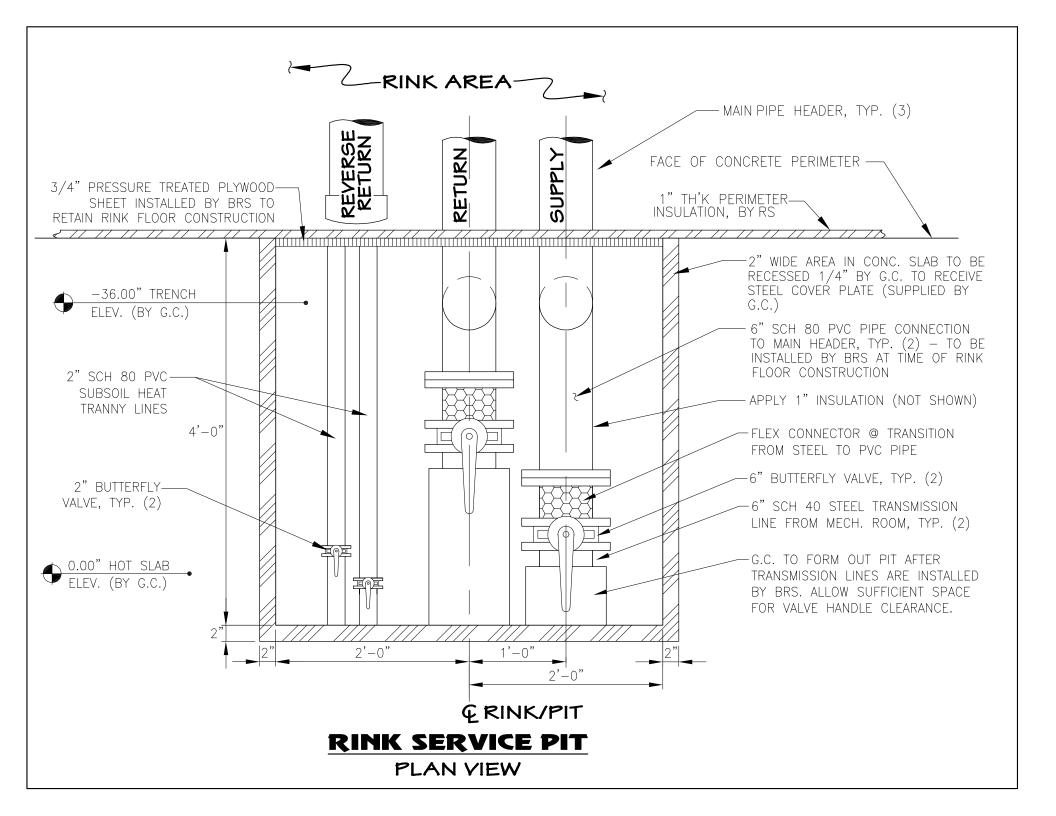
NOTE:

1) MAT'L: DMP 122 COPPER



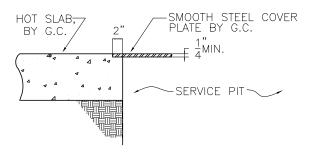






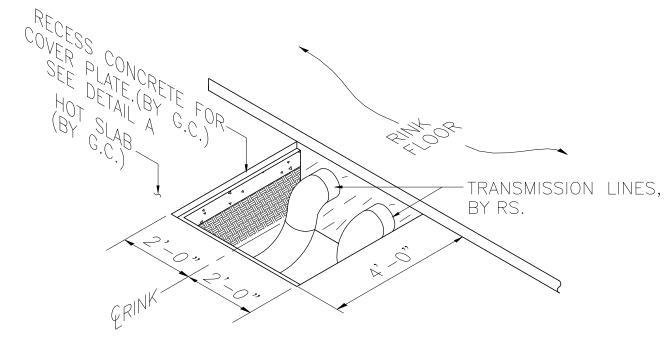
# Ice Rink Transmission Line Piping Design Drawings





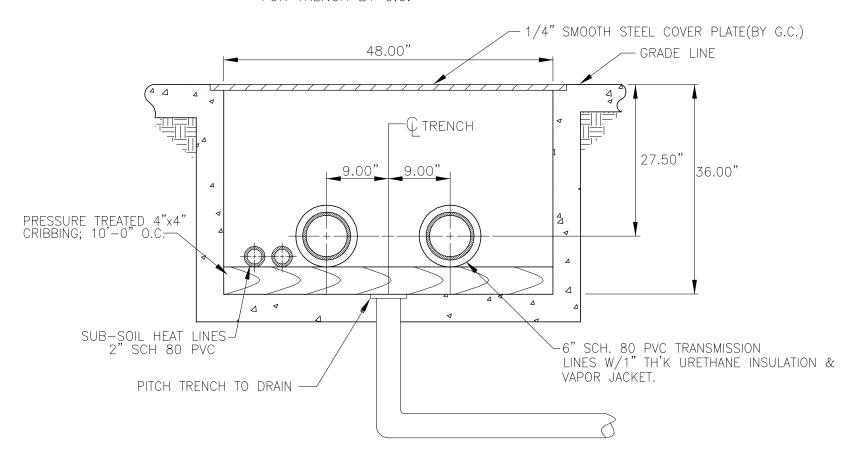
#### DETAIL A

\*4'-0"x4'-0" AREA OF HOT SLAB TO BE FORMED OUT AT CENTER LINE OF RINK FOR VALVE ACCESS.



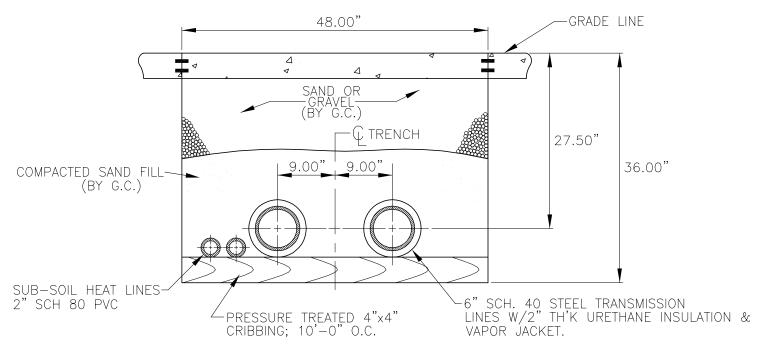
## TRANSMISSION LINE SERVICE PIT DETAIL

NOTE: EXCAVATION, FORMING, & CONCRETE WORK FOR TRENCH BY G.C.

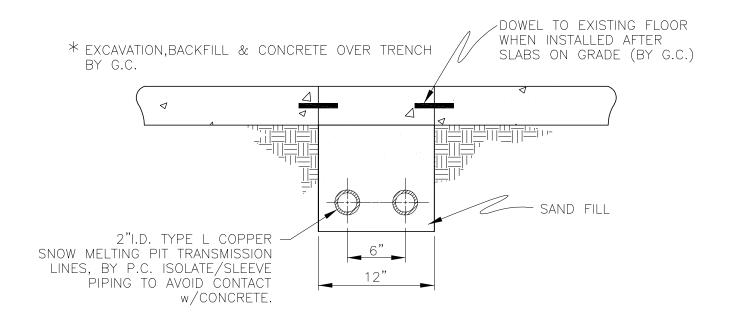


## **6- TRANSMISSION LINE TRENCH CROSS SECTION**

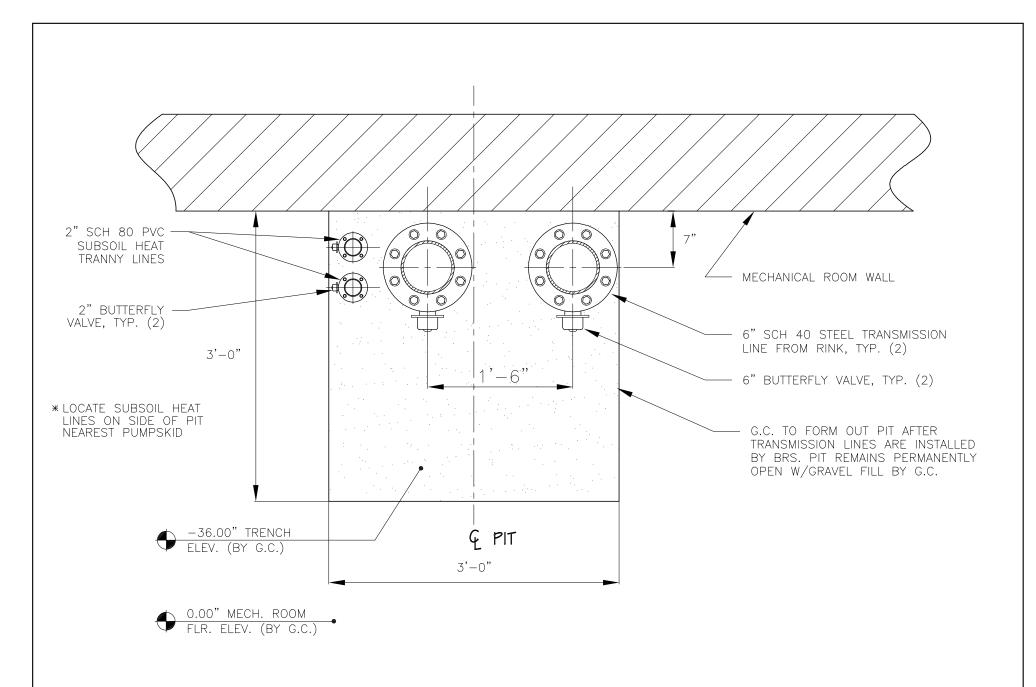
NOTE: EXCAVATION, BACKFILL, & CONCRETE OVER TRANSMISSION LINE TRENCH BY G.C.



## **6" TRANSMISSION LINE TRENCH CROSS SECTION**



## **SHOW PIT SUPPLY/RETURN LINES**

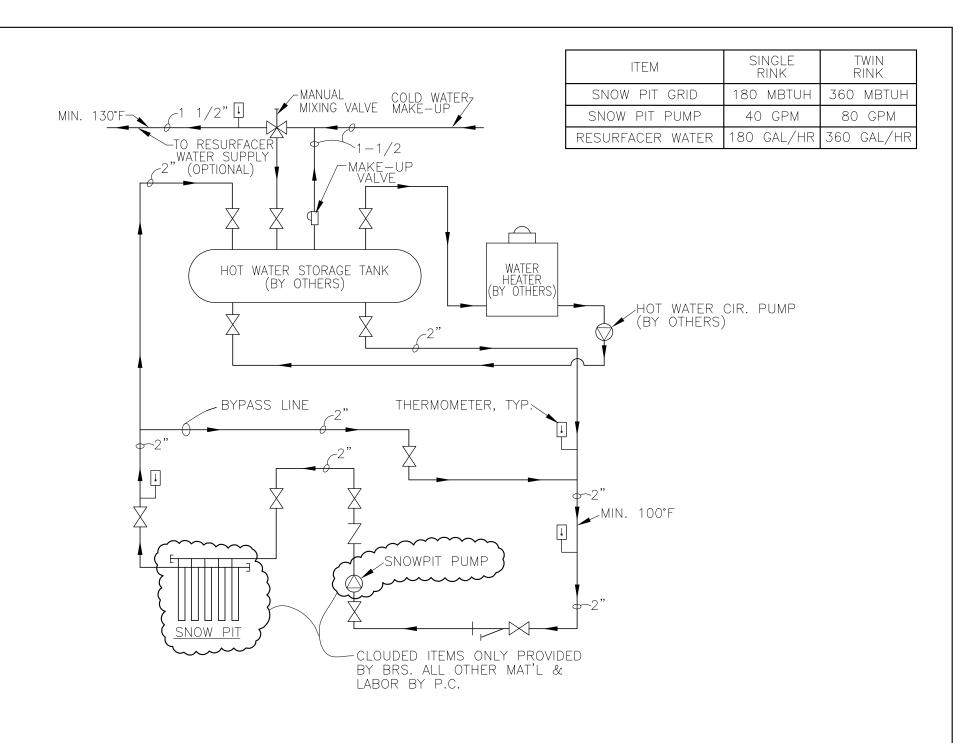


## MECHANICAL ROOM SERVICE PIT

6" & 2" TRANSMISSION LINES PLAN VIEW

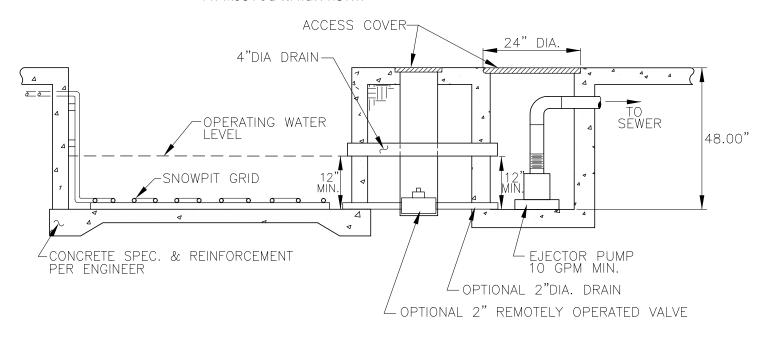
# Ice Rink Snow Melting Pit Design Drawings





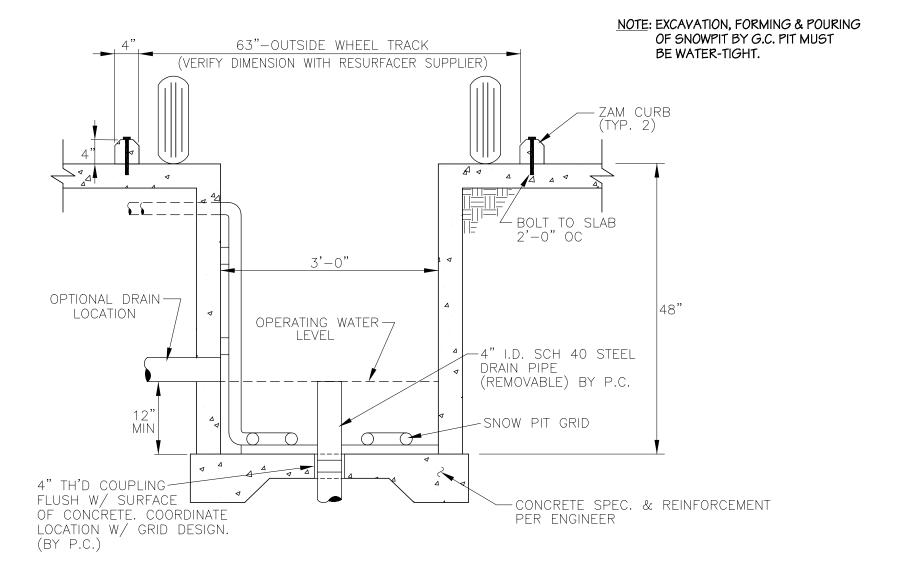
#### **SHOW PIT SYSTEM PIPING DIAGRAM**

# NOTE: EXCAVATION, FORMING, & POURING OF SNOWPIT BY G.C. PIT MUST BE WATER TIGHT.

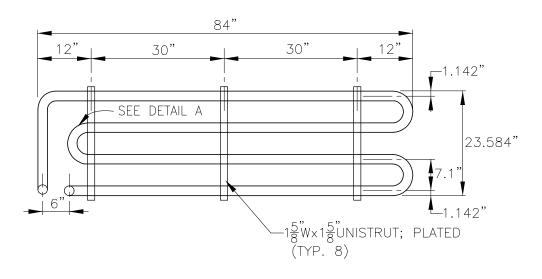


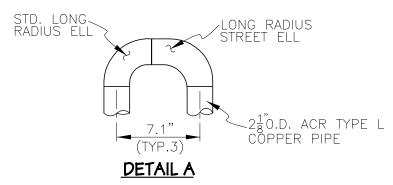
## **SHOW MELTING PIT W/EJECTOR PUMP**

<u>PIT AREA</u> TWIN RINK 3'-0"x20'-0"x4'-0" SINGLE RINK 3'-0"x8'-0"x4'-0"



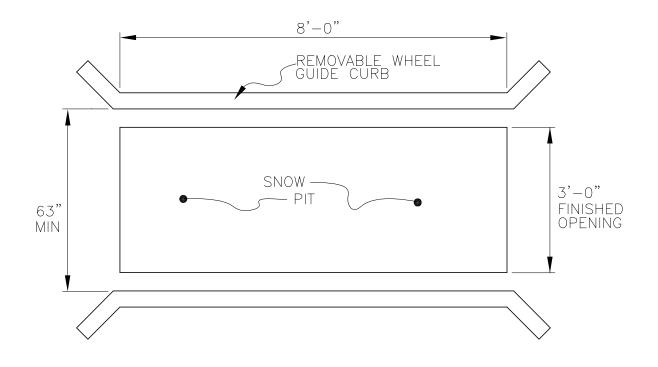
#### **3' SHOWPIT CROSS SECTION**



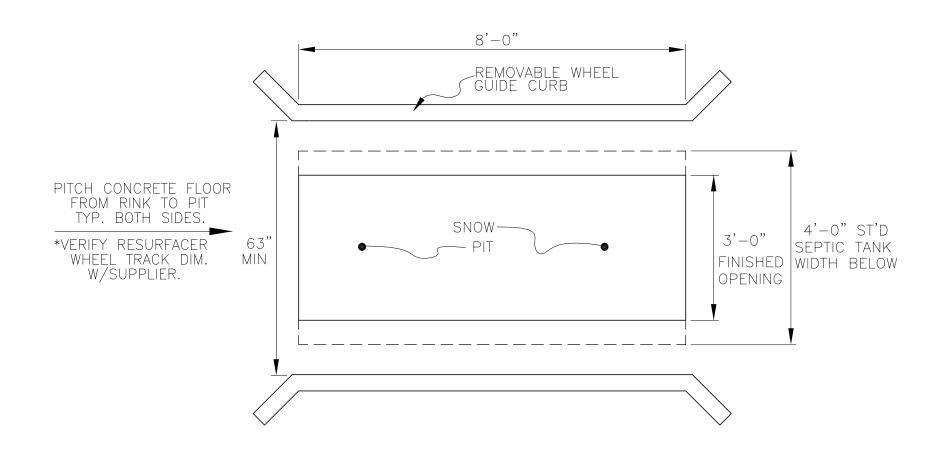


## **GRID FOR 3'x8' SNOWPIT**

PITCH CONCRETE FLOOR FROM RINK TO PIT TYP. BOTH SIDES. \*VERIFY RESURFACER WHEEL TRACK DIM. W/SUPPLIER.



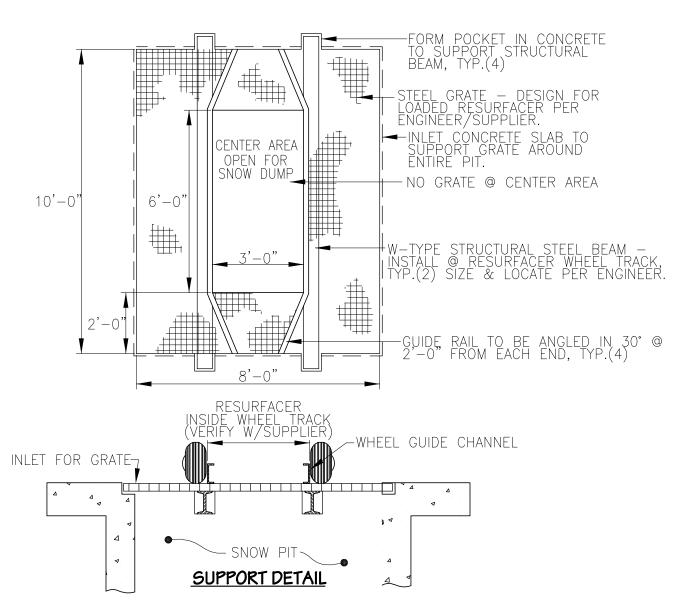
# STANDARD SNOW MELTING PIT PLAN-VIEW SINGLE RINK



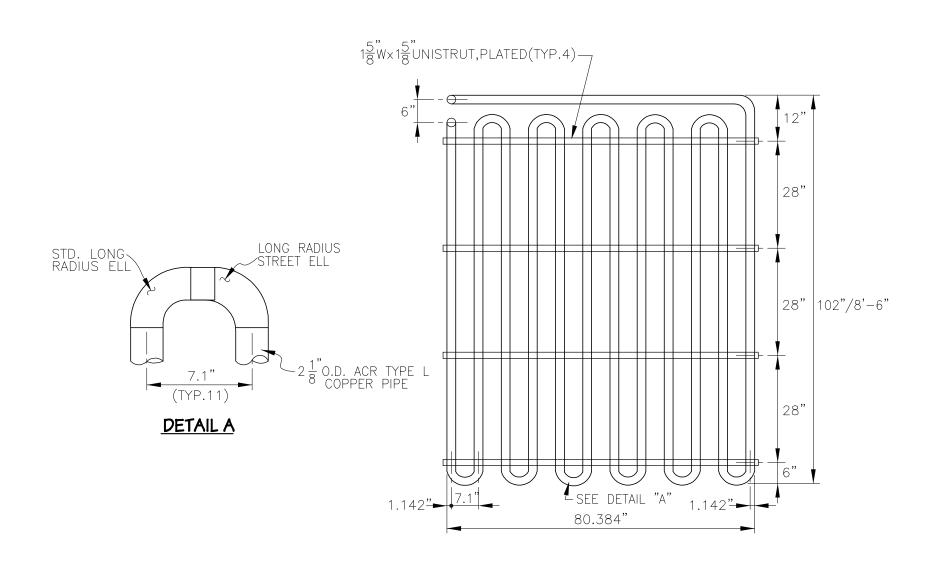
## **SINGLE RINK SHOW MELTING PIT**

PLAN-VIEW SEPTIC TANK CONSTRUCTION

NOTE:
OWNER'S ENGINEER SHALL
CONSULT W/RESURFACER SUPPLIER
& CONFIRM DESIGN OF ALL
STRUCTURAL COMPONENTS.



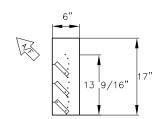
# **DRIVE OVER SHOW MELTING PIT**PLAN VIEW



## **GRID FOR 8'x10' SNOW PIT**

# Ice Rink Dehumidification Design Drawings



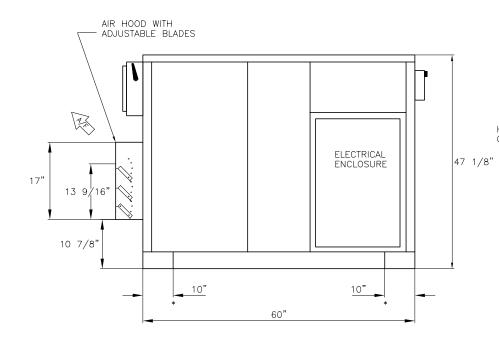


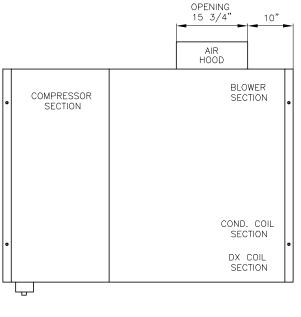
AIR DEFLECTION CAN BE 45 DEGREES UP. 22 1/2 DEGREES UP HORIZONAL 22 1/2 DEGREES DOWN 45 DEGREES DOWN

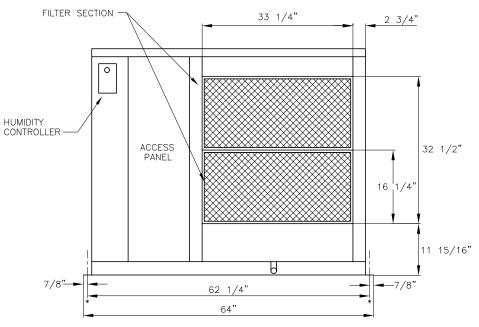
7/8" DIA. MOUNTING HOLES EST. UNIT WT. 2920 LBS.

# AIR HOOD WITH ADJUSTABLE BLADES

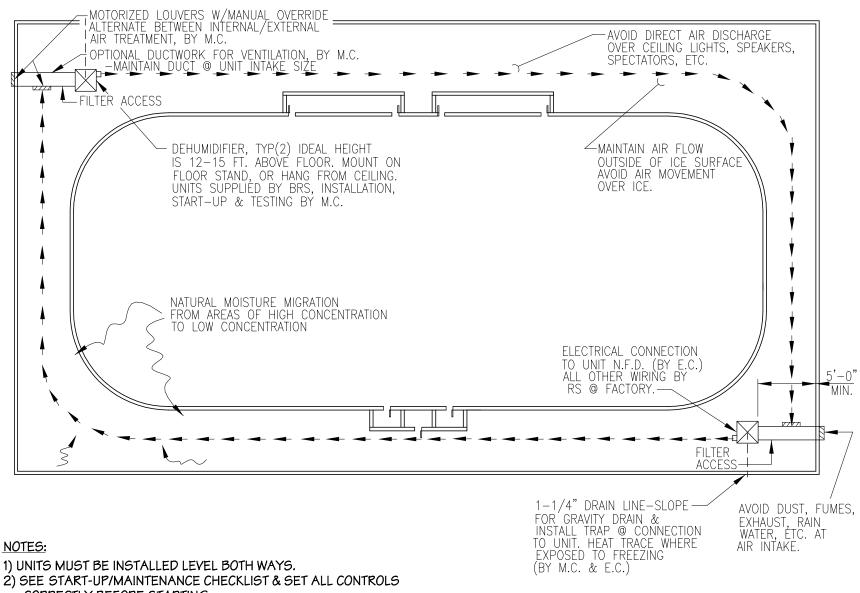
\*\_







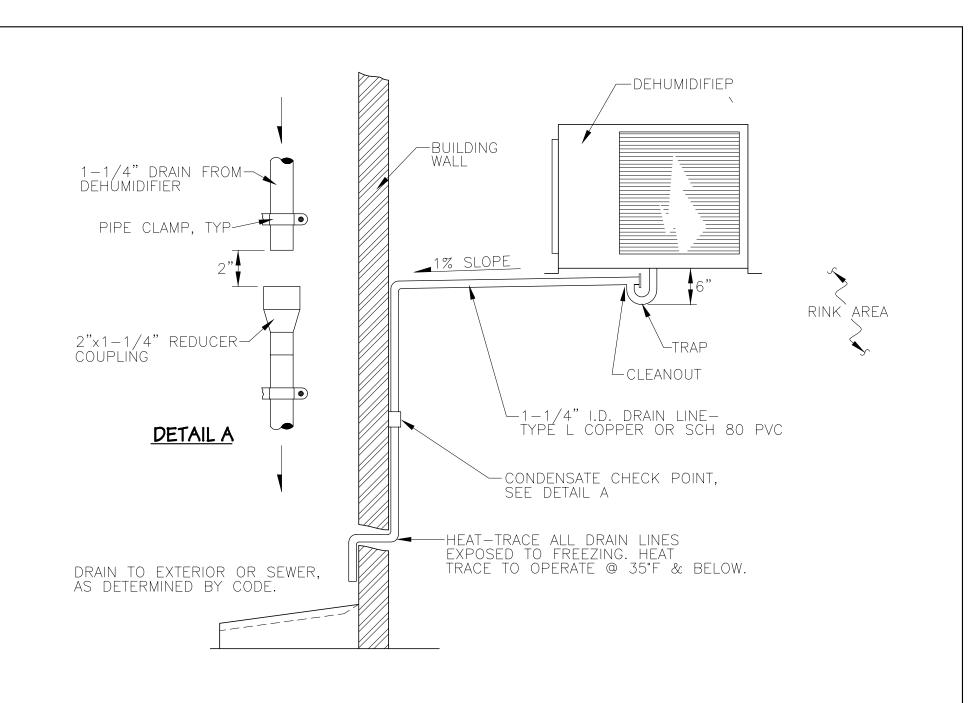
#### **DEHUMIDIFIER**



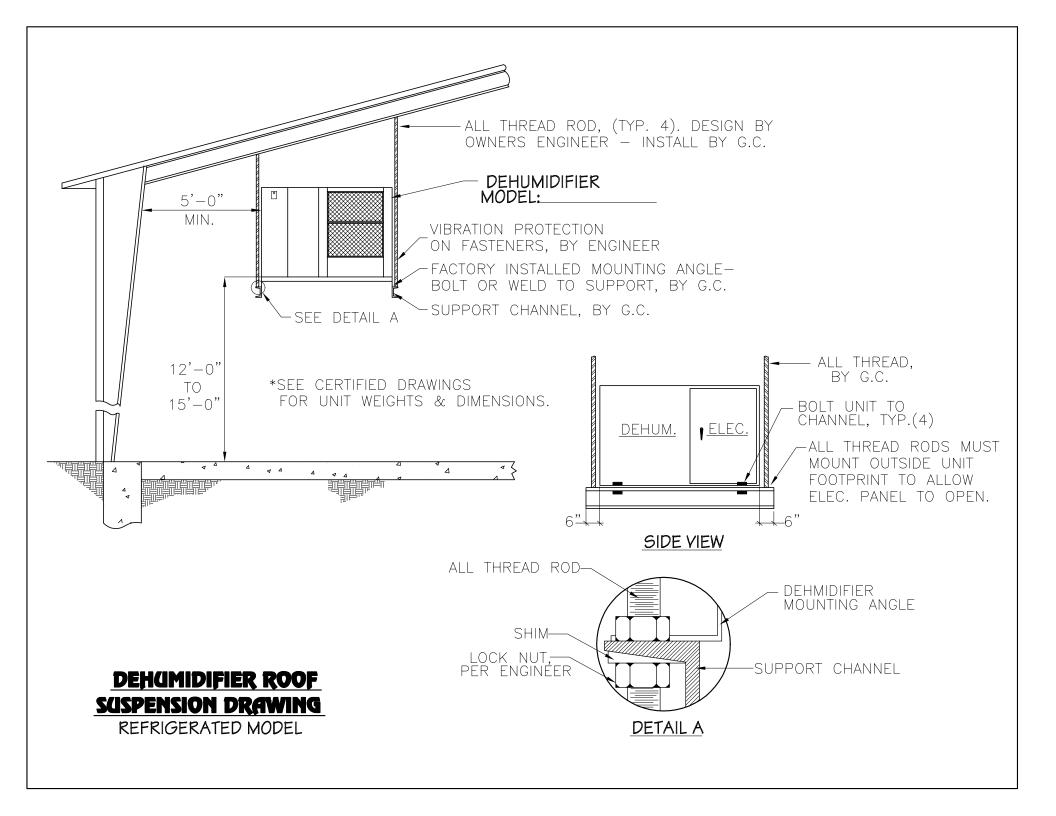
- CORRECTLY BEFORE STARTING.
- 3) CONSULT PROJECT ENGINEER FOR STAND CONSTRUCTION OR ROOF LOAD CAPABILITY.
- 4) SEE DEHUMIDIFIER DETAIL DRAWINGS FOR ADDITIONAL INFORMATION.
- 5) LOCATE UNITS MINIMUM 5'-O" FROM ANY AIR FLOW OBSTRUCTION. DISCHARGE PATH MUST BE CLEAR ENTIRE LENGTH OF ARENA

#### TYPICAL DEHUMIDIFIER LAYOUT/AIR FLOW PATTERN.

REFRIGERATED MODEL



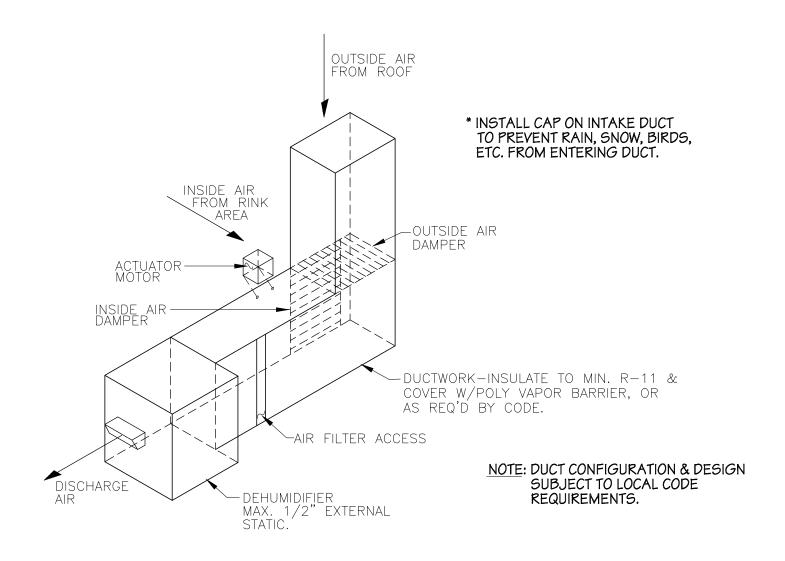
# **DEHUMIDIFIER DRAIN DETAIL**REFRIGERATED MODEL



\* AVOID DUST, FUMES, EXHAUST, RAIN WATER, ETC. @ AIR INTAKE. ACTUATOR-7 MOTOR INSIDE AIR FROM RINK AREA OUTSIDE AIR DAMPER INSIDE AIR -DAMPER -DUCTWORK-INSULATE TO MIN. R-11 & COVER W/POLY VAPOR BARRIER, OR AS REQ'D BY CODE. -AIR FILTER ACCESS NOTE: DUCT CONFIGURATION & DESIGN SUBJECT TO LOCAL CODE REQUIREMENTS. DISCHARGE AIR -DEHUMIDIFIER MAX. 1/2" EXTERNAL STATIC.

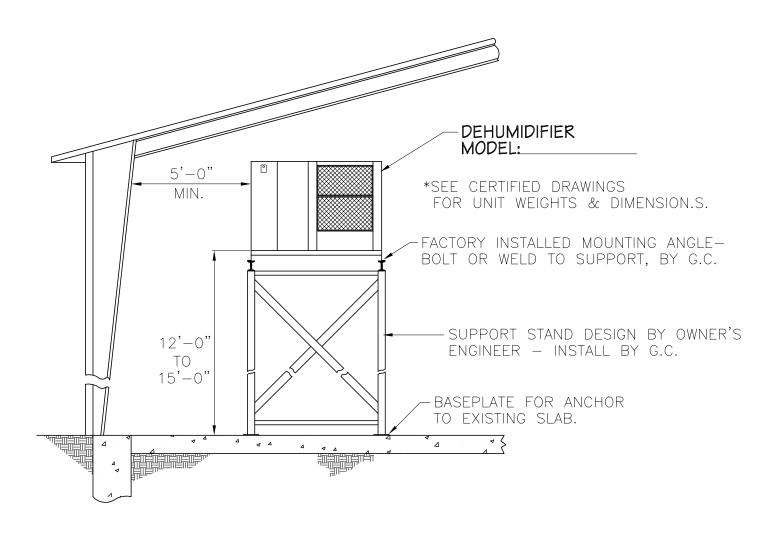
#### **DEHUM WALL INTAKE LAYOUT**

REFRIGERATED MODEL



#### <u>DEHUM ROOF INTAKE LAYOUT</u>

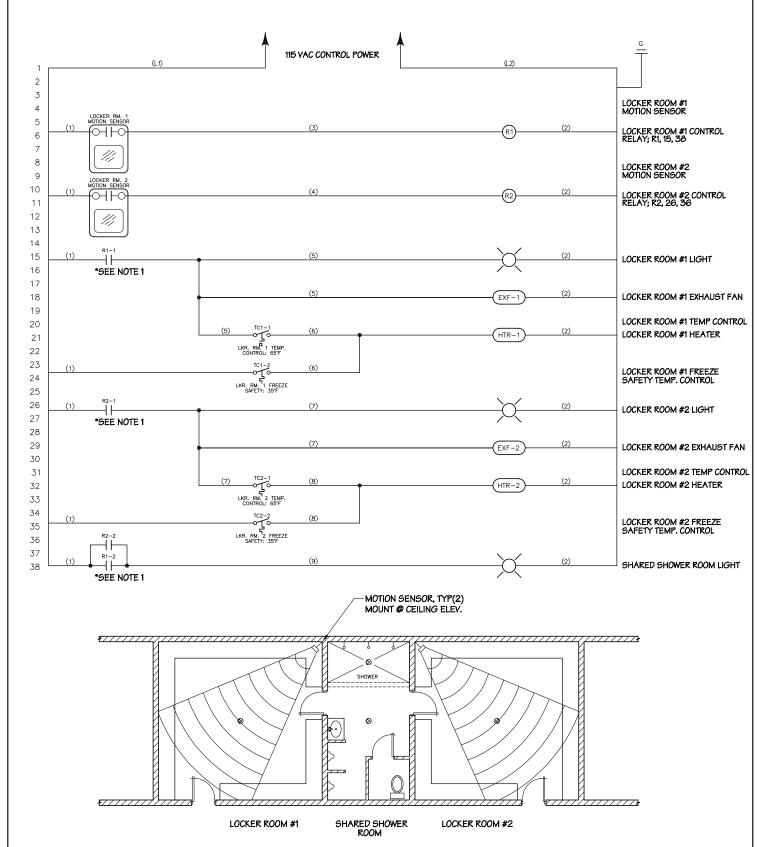
REFRIGERATED MODEL



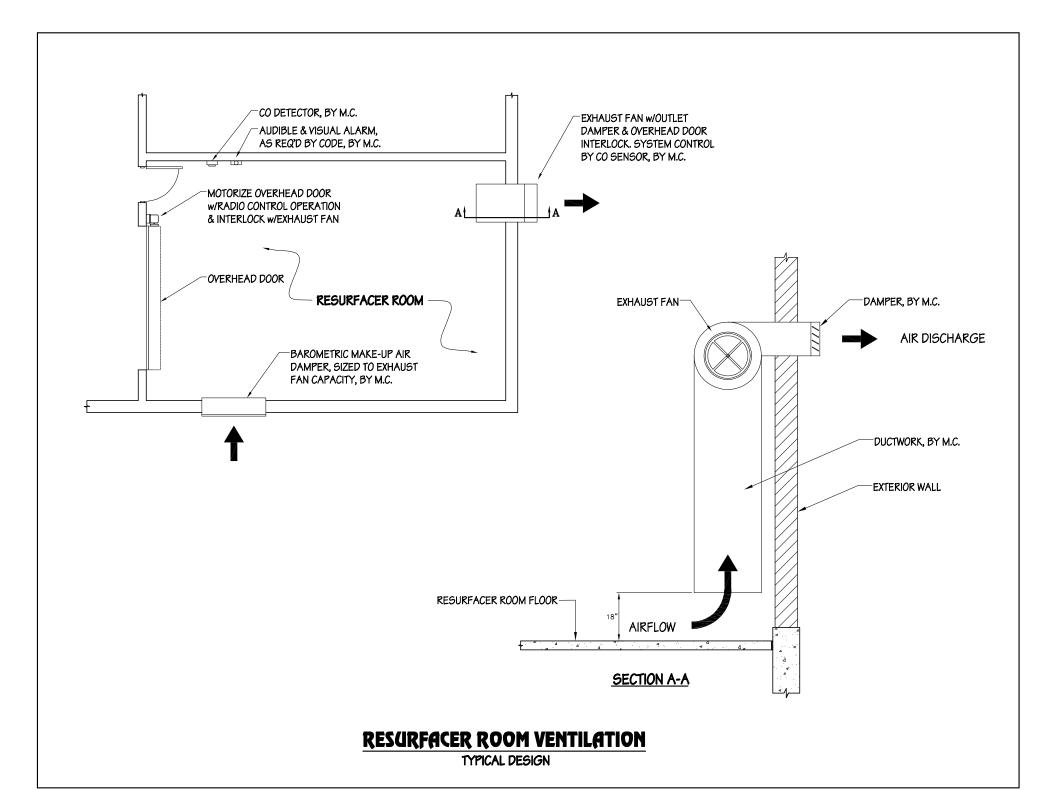
# STAND DRAWING REFRIGERATED MODEL

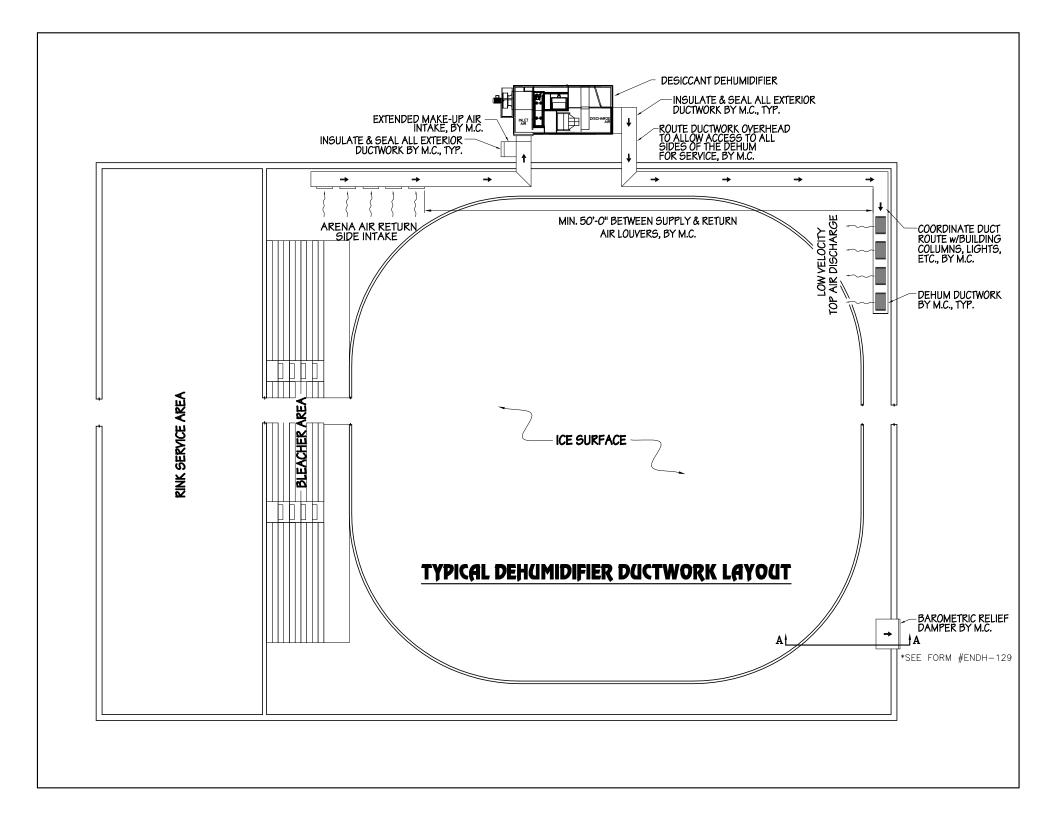
#### **MOTION SENSOR CONTROL DIAGRAM**

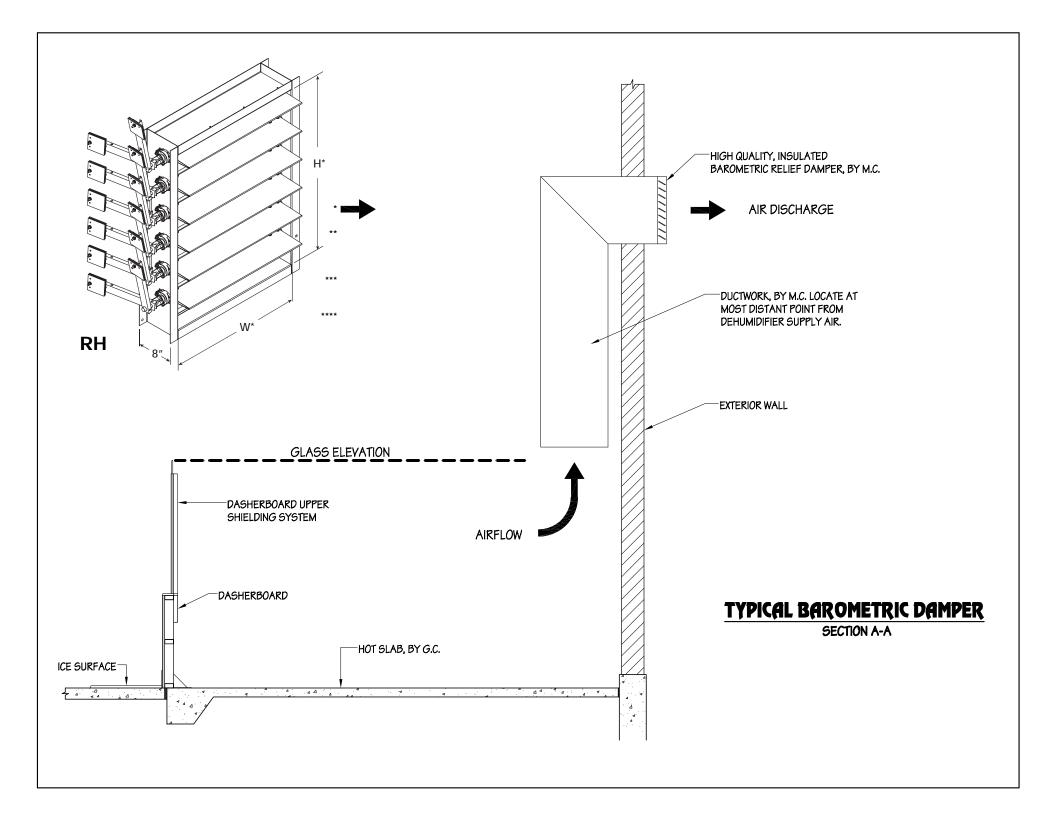
LOCKER ROOM HEATING, VENTILATION, & LIGHTING



NOTE 1: FOR 277 VAC APPLICATIONS, R1 & R2 MUST BE 3 POLE RELAYS FOR REQUIRED ADDED CONTROL VOLTAGE CONTACTS.

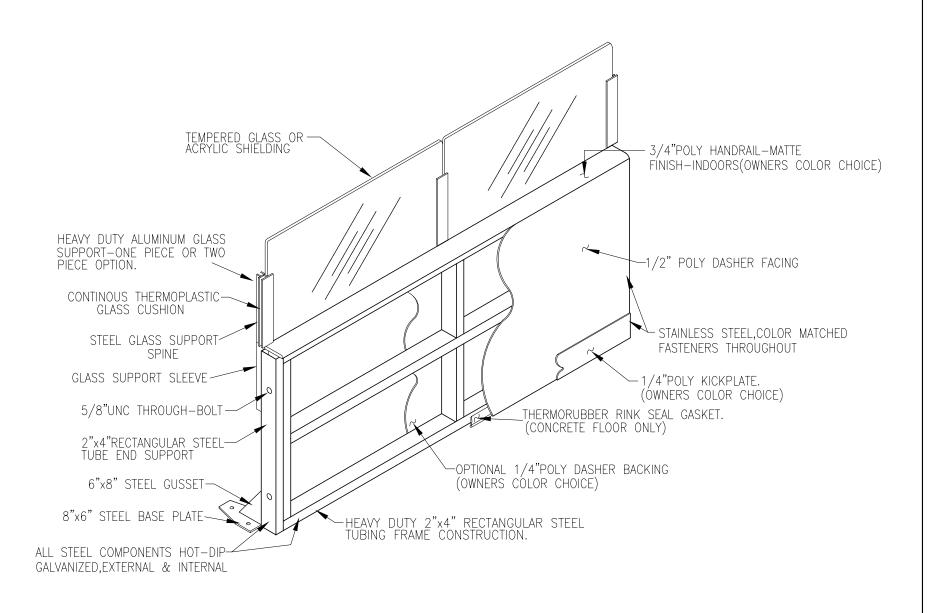






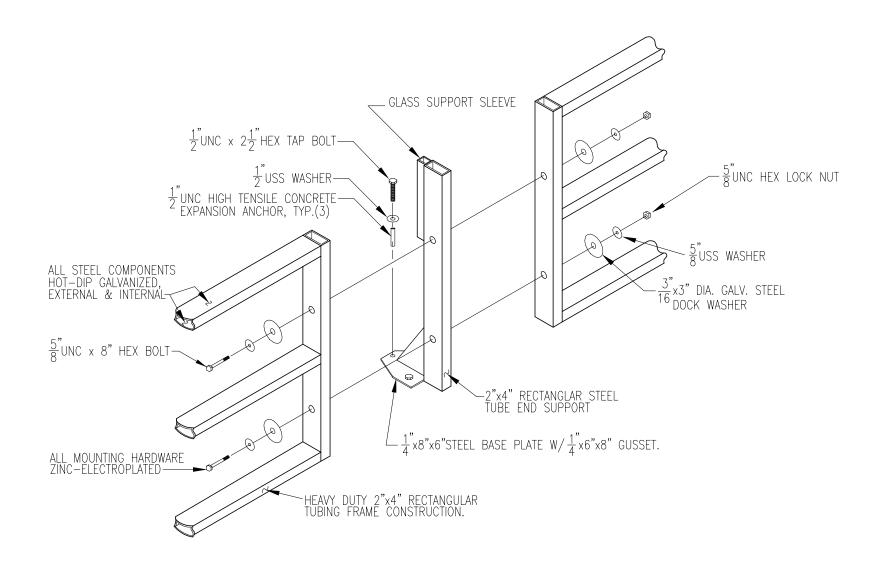
# Ice Rink Dasherboards Design Drawings



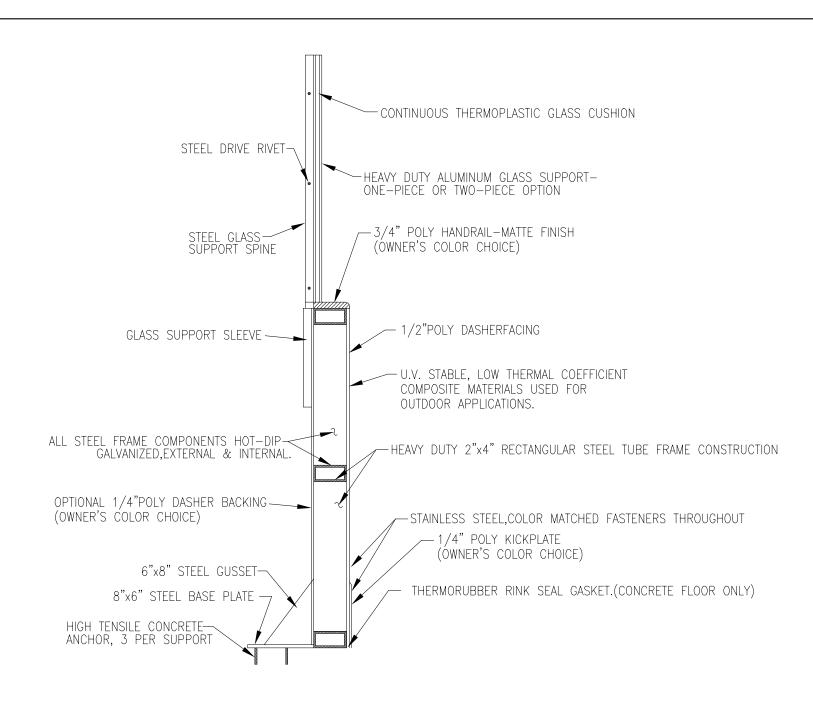


## STANDARD PROFESSIONAL STEEL FRAME DASHER

STEEL TUBING SYSTEM W/POLY ONLY



# STANDARD PROFESSIONAL STEEL FRAME DASHER ASSEMBLY DRAWING

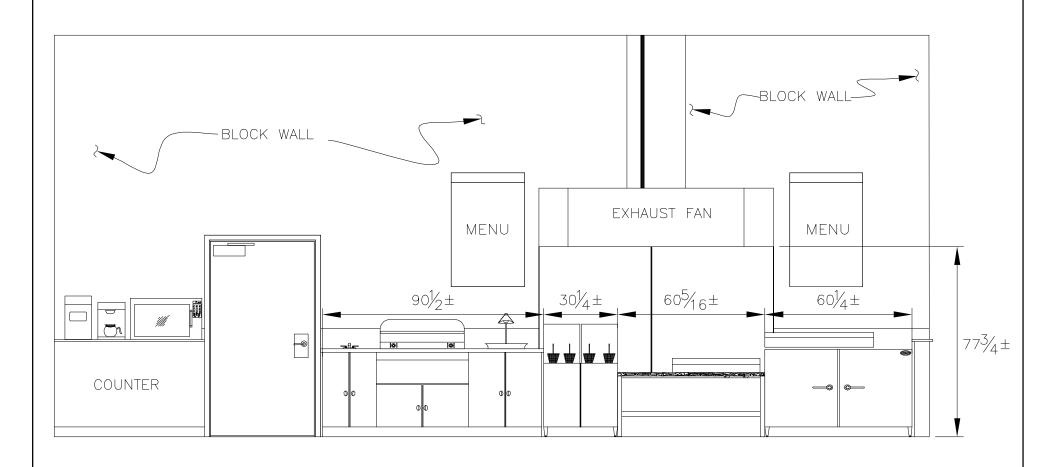


## STANDARD PROFESSIONAL STEEL FRAME DASHER SECTION

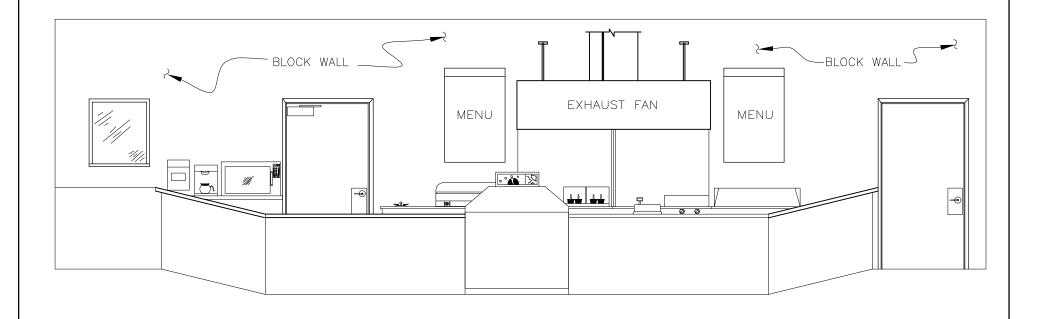
STEEL TUBE SYSTEM W/POLY ONLY

# Ice Rink General Application Design Drawings

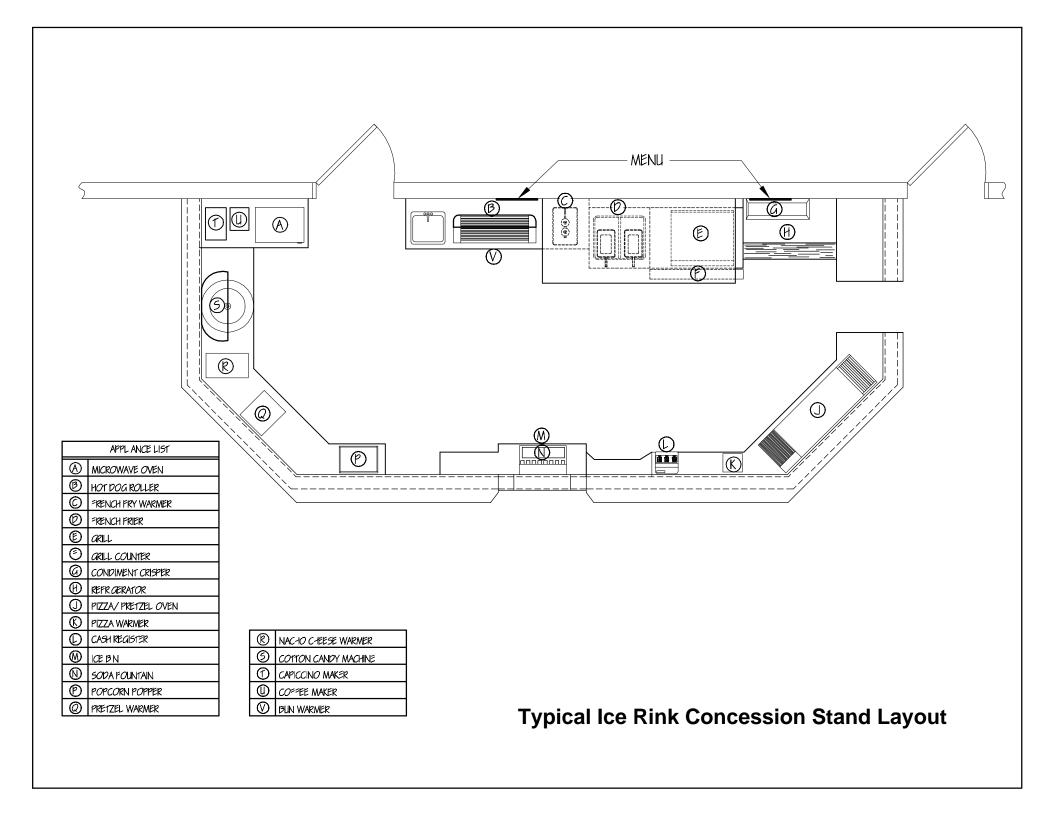




**Typical Ice Rink Concession Stand Layout** 

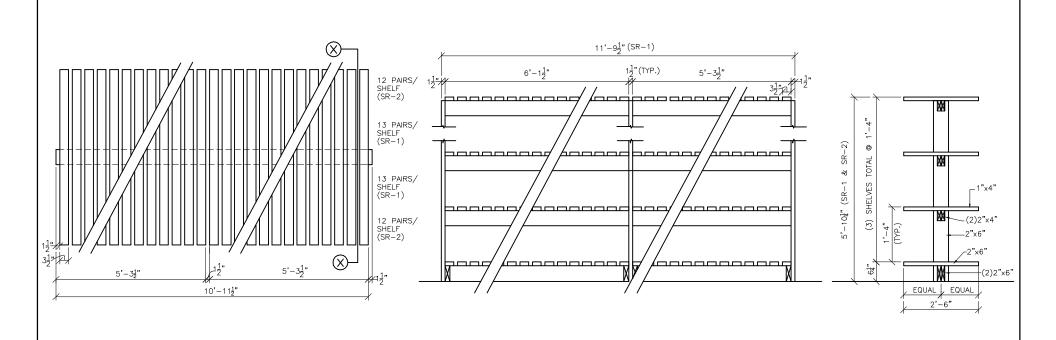


**Typical Ice Rink Concession Stand Layout** 

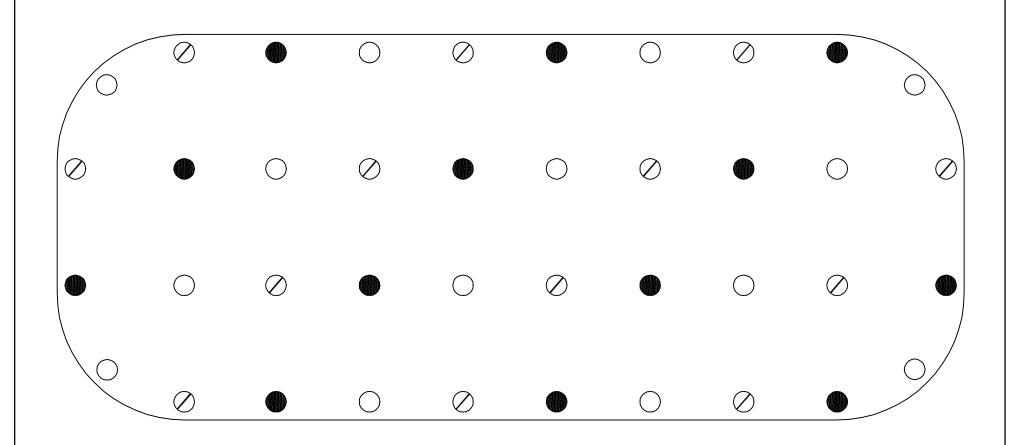


# TYPICAL RENTAL SKATE QUANTITY BREAKDOWN

	200	HOCKEY	F	IGURE	
TOTAL DESIRED QUANTITY PERCENTAGES REQUESTED ACTUAL TOTALS	800	50% 400		50% 400	
SIZES:	9c	N/A	0.0%	4	1.0%
	10c	0	0.0%	4	1.0%
	11c	4	1.0%	8	2.0%
	12c	4	1.0%	8	2.0%
	13	4	1.0%	16	4.0%
	1	8	2.0%	20	5.0%
	2	20	5.0%	24	6.0%
	3	24	6.0%	28	7.0%
	4	36	9.0%	<b>32</b>	8.0%
	5	36	9.0%	<b>32</b>	8.0%
	6	40	10.0%	40	10.0%
	7	40	10.0%	40	10.0%
	8	40	10.0%	40	10.0%
	9	40	10.0%	40	10.0%
	10	40	10.0%	24	6.0%
	11	32	8.0%	20	5.0%
	12	32	8.0%	20	5.0%
PERCENTAGE TOTALS		400	100%	400	100%

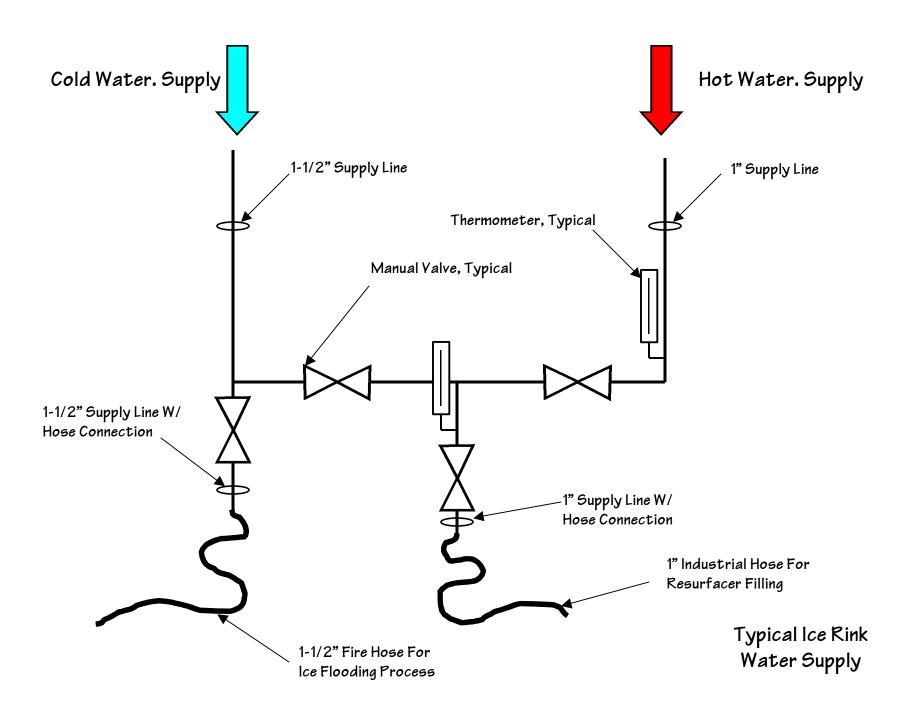


**Typical Rental Skate Storage Rack Design** 



AS YOU CAN SEE, WE USER 40 LIGHT FIXIURES. IHE DIFFERENI SHADES REPRESENI IHE THREE BREAKERS (SWITCHES) AND THE FACT THAT THEY ARE SPREAD EVENLY AS APPOSED SWITCHING ROWS WHICH ALLOWS US TO DIM THE LIGHT LEVEL EVENLY FOR THE EVENTS THAT DO NOT REQUIRE AS MUCH LIGHT. THE FOUR CORNER FIXTURES ARE BROUGHT IN SLIGHTLY SO NO SHADOW IS CAST AND REFLECTION FROM THE GLASS IS NOT AN ISSUE.

## ICE RINK LIGHTING CIRCUITING



### Capacities/Dimensions

Snow Tank			
Actual Volume	2.83 m <sup>3</sup>	(100 cu. ft.)	
Compacted	3.54 m <sup>3</sup>	(125 cu. ft.)	
Excess Water	416 L	(110 USG,	92 IMP)

Water			
Ice Making	727 L	(192 USG,	160 IMP)
Wash Water	273 L	( 72 USG,	60 IMP)
Total	1000 L	(264 USG,	220 IMP)

P YOUNG	THAT COAD COLOR	200200000000000000000000000000000000000	30/2007/10/07/
Hydraulic Oil	95 L	( 25 USG,	21 IMP)

## **Conveyor System**

Horizontal Auger	25.4 cm (	( 10 in.) dia.
Vertical Auger	25.4 cm	( 10 in.) dia.

# **Overall Length**

Snow Tank Down	4.04 m	(159 in.)
Snow Tank Up	5.03 m	(198 in.)

## **Overall Height**

Snow Tank Down	2.16 m	(85 in.)
Snow Tank Up	3.91 m	(154 in.)

Overall Width	2.13 m	( 84 in.)
4		

Wheelbase	1.95 m	( 77 in.)

## **Turning Radius**

Wheel Track

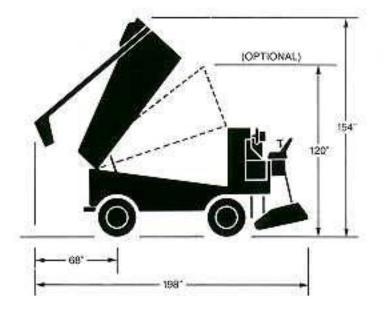
At Conditioner 4.86 m ( 16 ft.)

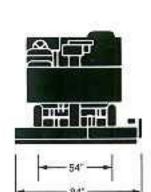
**Shaving Blade** 1.27 x 12.7 x 195.6 cm 1√2" x 5" x 77"

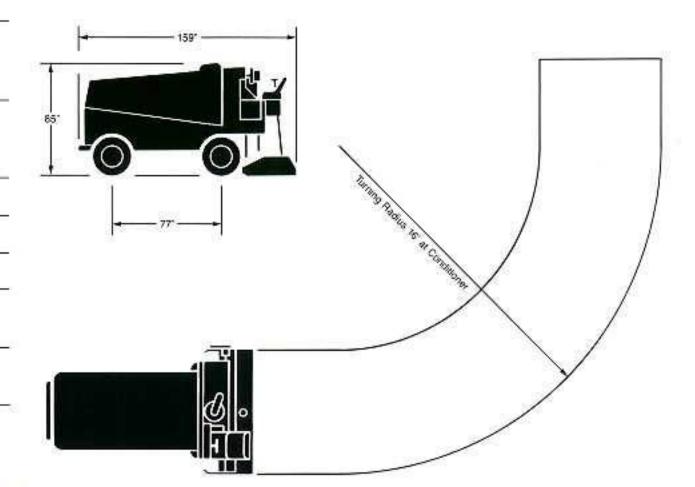
1.37 m ( 54 in.)

### Vehicle Weight

Empty 2939 kg (6480 lb.) w/Water 3937 kg (8680 lb.)







#### Store Room/Facilities

Adequate ventilation of any engine emissions must be provided in the storage room and the ice rink(s). The storage room should be heated and have adequate floor drainage. The room should be located close to an end of the ice surface(s) to minimize turning and ramps, and include outdoor access for snow dumping and machine/building maintenance. All doors should be minimum of 2.74 m (9 ft.) wide by 2.74 m (9 ft.) high. Dimensions of the room should include a minimum 1.22 m (4 ft.) clearance on all sides of the machine. A snow melting pit should be capable of processing 3.54 m<sup>3</sup> (125 cu. ft.) of snow per hour, per ice surface. Ice making water requirements are approximately 757 L (200 USG, 167 IMP) per hour, per ice surface. Most operators, especially in cold climates, use hot water for their ice making that is heated to 60° to 71°C (140° to 160°F).

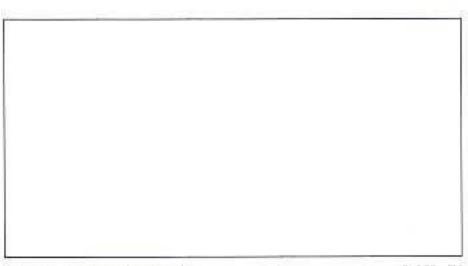
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# zamboni.

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#### **The Ultimate Machine**

OA

Over 50 years ago, Frank Zamboni set out to create the first ice resurfacer for his own ice rink.

# Trusted & proven performers, Zamboni® ice resurfacers bring unequalled quality & superior value to the rink every day.

In the early 1940's, Frank Zamboni saw the need for a machine to quickly produce an attractive sheet of ice at his rink in Southern California.

Through his experiments and persistence, the Zamboni ice resurfacer was invented. The machine he developed for his own facility was soon recognized as being indispensible for an efficient operation and has had a tremendous impact on skating and ice sports. Zamboni ice resurfacers continue as the overwhelming choice of arena operators throughout the world... Frank Zamboni's belief in ongoing product improvement and innovation lives on today in the company he founded.

The employees of Zamboni honor the spirit of
Frank Zamboni by closely examining every
detail on the Zamboni ice resurfacer and then
putting it to the test. There is no part on this
machine which has not faced the challenge:
"How can we make it better?" Most companies
may think that this commitment to detail is
unnecessary, but we know that it is this "innovative
spirit" that made Frank Zamboni what he was then...
and makes Zamboni what it is now:

The maker of the world's leading ice resurfacing machine.

Nothing else is even close.



#### **Proven Value**



#### The Evolution of a Dream

Zamboni ice resurfacers have always offered unparalleled shaving and snow conveyor performance.

The highest residual value speaks to Zamboni's construction and durability. The industry's lowest cost of operation reflects Zamboni's uperior design and execution.

Uncompromising and Unparalleled

Tough materials and fabrication. Strong and hardy components. Efficient and powerful engines, motors and pumps. Zamboni remains the overwhelming choice for professional, private and municipal ice rink operators throughout the world.

Zamboni's powerful conveyor system provides the industry's highest snow compaction.



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#### **Our Attention to Detail is Legendary**

Nothing about the Zamboni ice resurfacer is taken for granted. No detail is overlooked, which is why Zamboni remains the overwhelming industry leader.



#### **Proven Reliability**

Operating an ice resurfacer in a busy single or double rink is a tough job in a harsh environment. Hourly cold starting cycles often extend for 18 hours and can severely test any equipment. Zamboni ice resurfacers meet this challenge every day. Our network of dealers around the globe stands ready to provide timely, excellent support.

"The principal product you have to sell is the ice itself."

- Frank Zamboni
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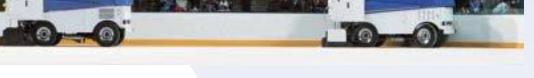




**Proven Performance** 

Knowledgeable arena operators know that a quality sheet of ice is an arena's primary selling feature. Successful operators choose Zamboni ice resurfacing machines because they know Zamboni is the only real choice for unparalleled shaving and snow conveyor performance. Every feature on the 500 Series is deliberately designed to make ice resurfacing easier and to ensure that the result is always a perfect sheet of ice.

Frank Zamboni wouldn't have wanted it any other way.



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Nothing else is even close

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