

vaughn concrete products, inc.

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www.vaughnconcreteproducts.com

Digital PDF Product Catalog



We are committed to making our business with you as efficient and pleasant an experience as possible. This Digital PDF Product Catalog replaces our 3-ring binder paper catalog and puts our entire product line & contact information at your fingertips.

Looking for a particular item, but not sure where to look? Simply type in what you are looking for in the search window above. All of our standard high-quality reinforced precast concrete products are detailed on this Digital PDF Product Catalog.

If you still didn't find what you need to satisfy your project's requirements, please [contact us](#). Our ability to manufacture specialty products to satisfy specific project requirements is something that all of us here at Vaughn Concrete Products, Inc. take great pride in!

Our product line is continually changing to meet the demands set forth by our industry. Please visit www.vaughnconcreteproducts.com for our current product line.

We hope that you enjoy the convenience of our Digital PDF Product Catalog & look forward to working with you on your next project!

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- 65. 2000+ GALLON

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- 70. 2000+ GALLON

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- 82. 1500 GALLON NON-TRAFFIC
- 83. 1500 GALLON WITH TOP FOR TRAFFIC
- 84. 2000+ GALLON

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- 85. 1000 GALLON NON-TRAFFIC
- 86. 1000 GALLON WITH LID FOR TRAFFIC
- 87. 1500 GALLON NON-TRAFFIC
- 88. 1500 GALLON WITH TOP FOR TRAFFIC
- 89. 2000+ GALLON

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- 90. 1000 GALLON NON-TRAFFIC
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- 300. VAULT OPTIONS (3 OF 4)
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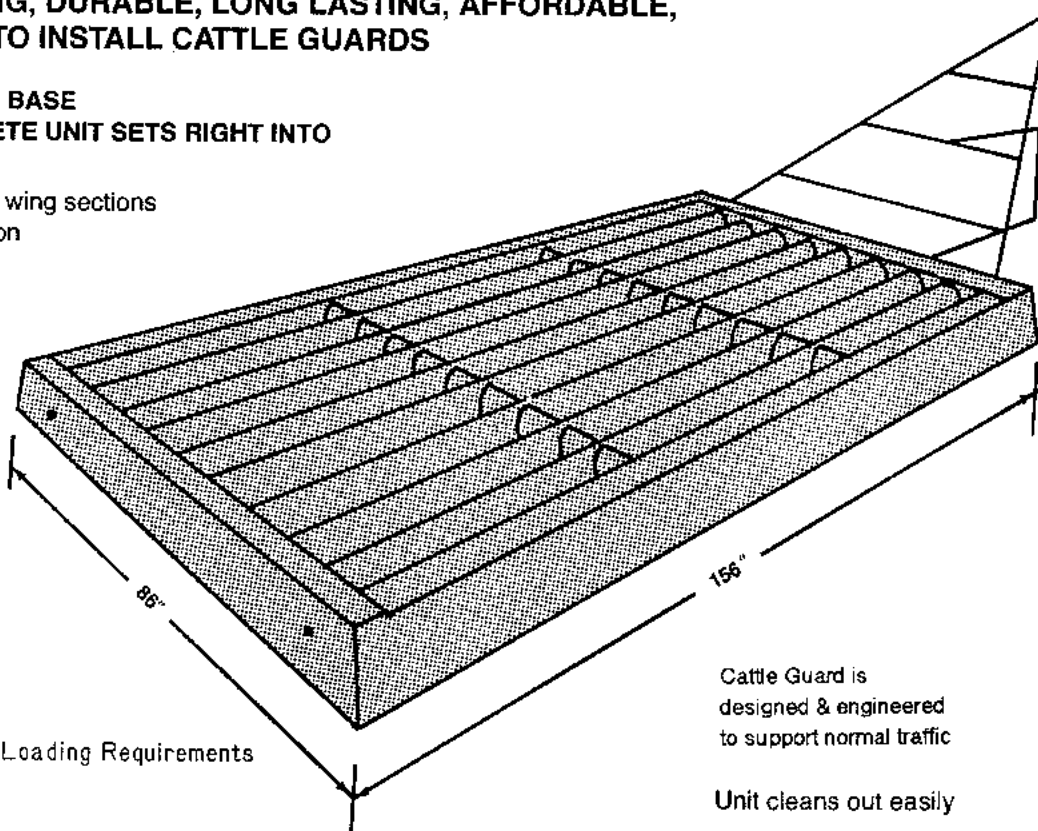
Precast Concrete

Cattle Guard

**STRONG, DURABLE, LONG LASTING, AFFORDABLE,
EASY TO INSTALL CATTLE GUARDS**

**BUILT-IN BASE
COMPLETE UNIT SETS RIGHT INTO
PLACE**

Optional: wing sections
that bolt on



Meets H-20 Loading Requirements

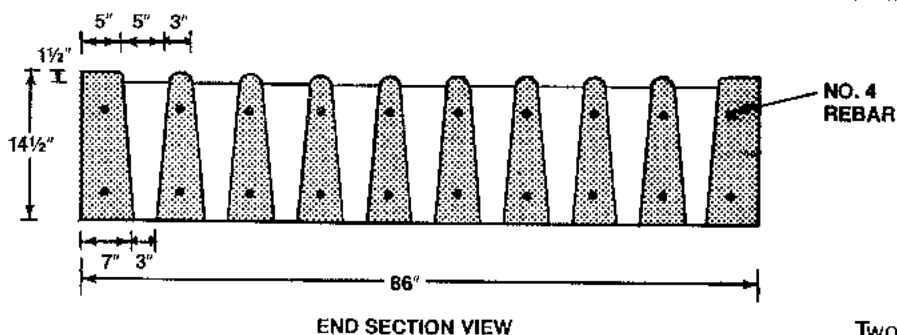
Cattle Guard is
designed & engineered
to support normal traffic

Unit cleans out easily

Manufactured with 4000 P.S.I Concrete
(Minimum)

Reinforcing- Grade 60 (Minimum)

Digging Specifications:
14' x 9' x 12" deep



END SECTION VIEW

CATTLE GUARD WEIGHT: 9,600 lbs.

Actual dimensions of concrete products may vary slightly.

Two or more sections may be set
together for a wider cattle guard.
(Requires Connecting Band)

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Precast Concrete

CATTLE GUARD BASE

**NO DELAY
IMMEDIATELY USEABLE**

**READY TO USE
WITH YOUR STEEL GRATES
OR OURS**

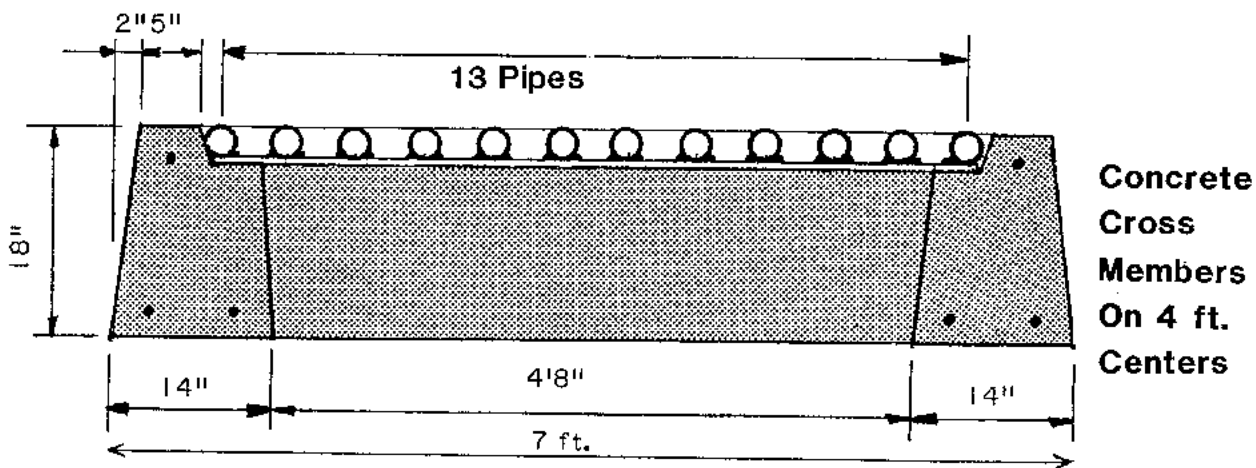
**Complete Unit Is
Ready To Set In Place**

Optional Wing Extensions
Attach To Ends
of Steel Rail

Base is
cast with
steel
reinforced
high-strength
concrete
Meets H-20
loading requirements

Weights:
7'x16'-9,480 lbs. Rails 1200 lbs.
7'x20'-11,850 lbs. Rails 1500 lbs.
7'x24'-14,220 lbs. Rails 1800 lbs.

EASY TO CLEAN
Remove Gate
Clean Out
Reset Gate



Actual dimensions of concrete products may vary slightly.

Concrete - 4000 P.S.I. (Minimum)
Reinforcing - Grade 60 (Minimum)

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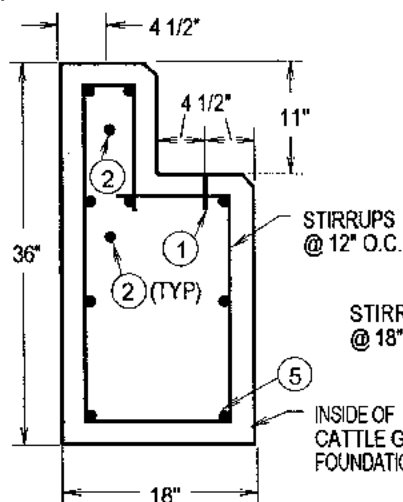
**vaughn
concrete products, inc.**

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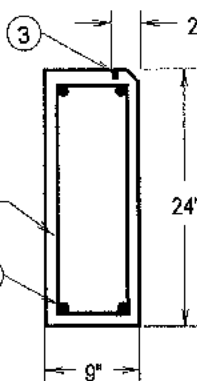
PRECAST CONCRETE CATTLE GUARD BASE

APPROVED BY THE WYOMING DEPARTMENT OF TRANSPORTATION

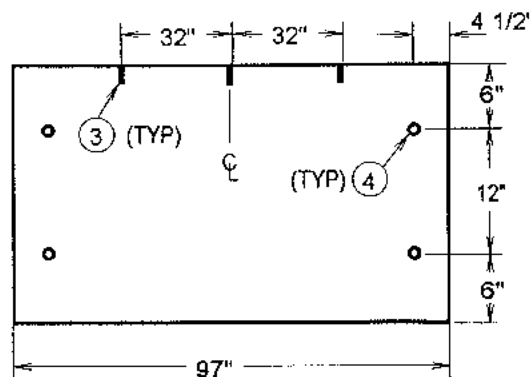
END SUPPORT SECTION



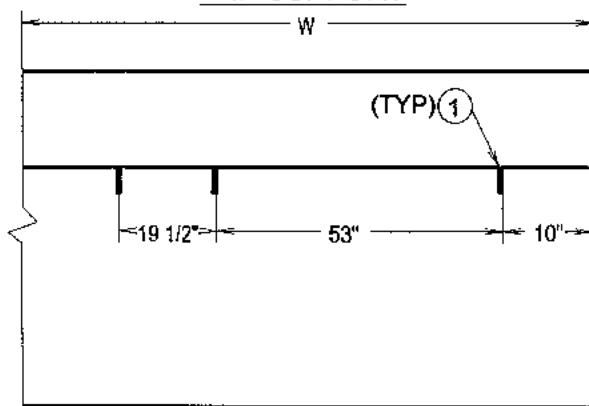
LATERAL SUPPORT SECTION



LATERAL SUPPORT



END SUPPORT

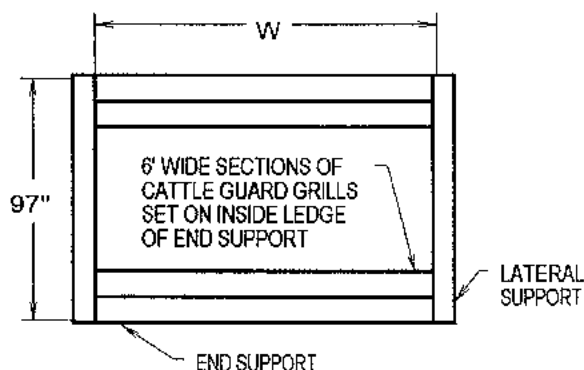


NOMINAL WIDTH	W (ACTUAL)
12'	12'-1 1/2" *
18'	18'-2" *
24'	24'-2 1/2" *
30'	30'-3" *
36'	36'-3 1/2" *
42'	42'-4" *

* ALLOWS FOR SPACE BETWEEN 6" WIDE GRILLES

NOTE	DESCRIPTION
①	3/4" INSERT FOR ANCHORING GRILLES
②	3/4" INSERT FOR LATERAL SUPPORT CONNECTION
③	3/8" INSERT FOR WING SECTION CONNECTION
④	1 1/2" HOLE FOR LATERAL SUPPORT
⑤	ALL REINFORCING ARE #4 BARS W/ 2" COVER

NOTE: $W \leq 24'$ END SUPPORT IS 1 PIECE, NO CROWN
 $W \geq 30'$ END SUPPORT IS BUILT IN SECTIONS
 CONCRETE: 4000 P.S.I. (MINIMUM)
 ALL REINFORCING GRADE 60 (MINIMUM)
 HOLES CAST IN SECTIONS TO FACILITATE HANDLING (APPROX. 3" DIAMETER)



PLAN VIEW OF ASSEMBLED BASE W/O GRILLES

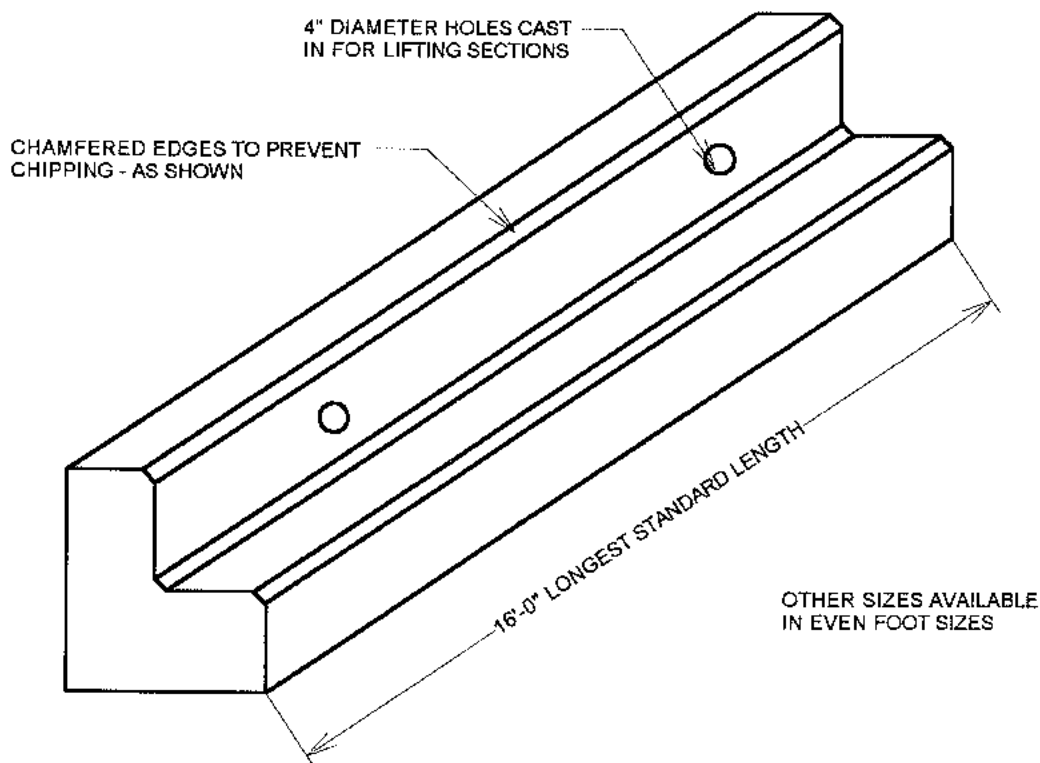
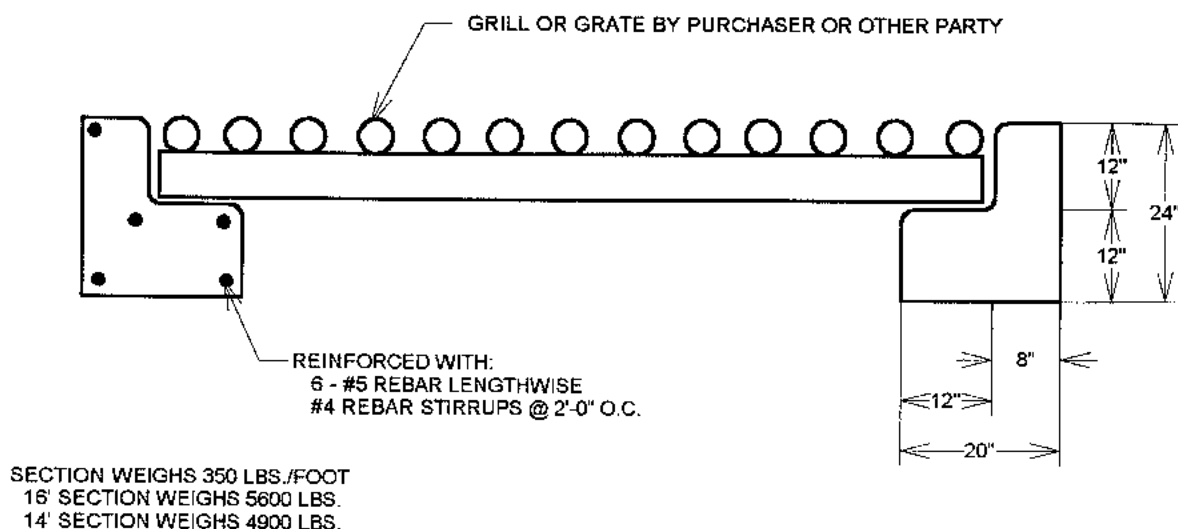
ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY
 DRAWING IS NOT TO SCALE

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PRECAST CONCRETE CATTLE GUARD BASE



CONCRETE: 4000 P.S.I. MINIMUM
REINFORCING: GRADE 60 MINIMUM

DRAWING IS NOT TO SCALE
ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

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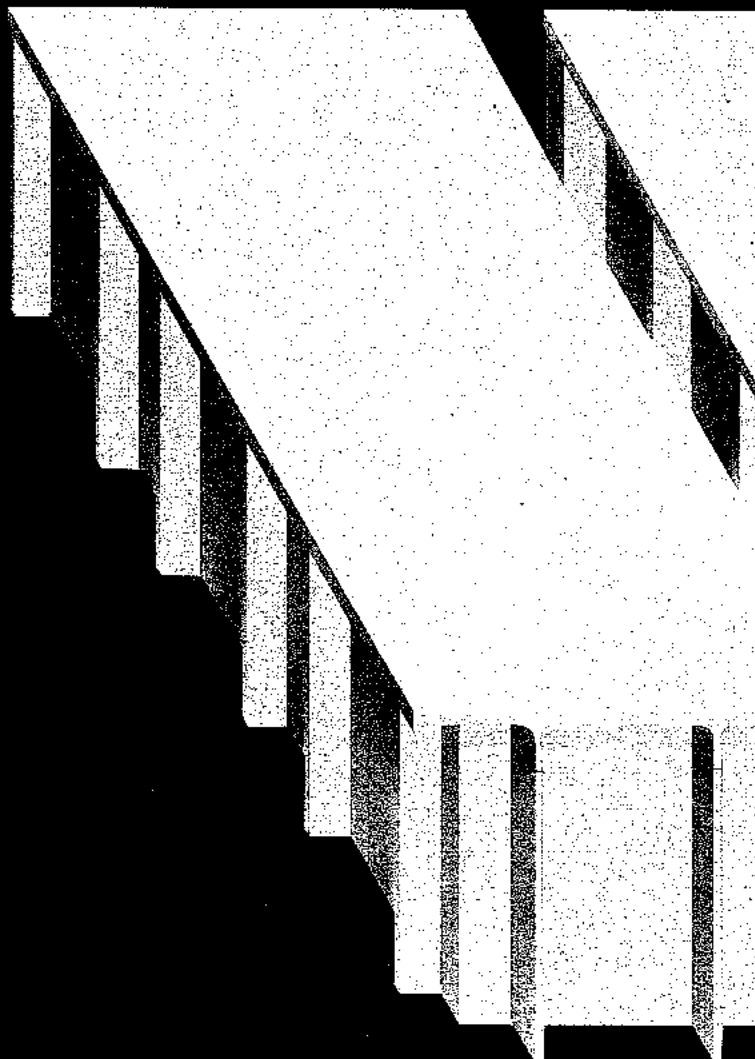
UPDATED 10/99

CATL-CATTLE.SKP

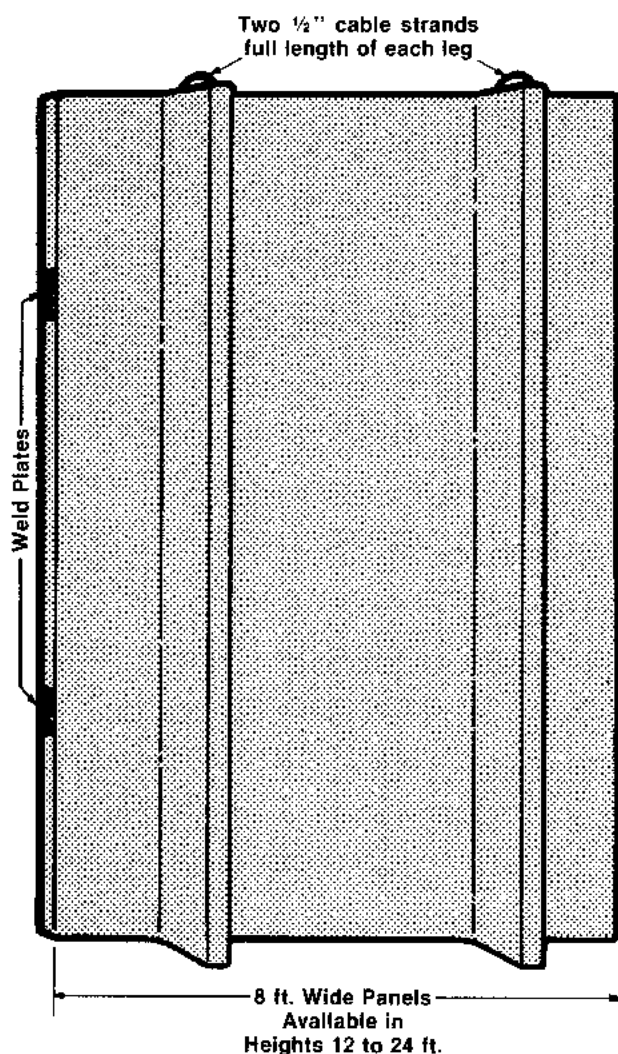


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**Pre-stressed Concrete
Double-Tee Building Panels**



Double-Tee, one of the most widely used building forms, provides functional, economic, fireproof and wind resistant construction.

Weld plates are featured for fast, easy installation. Placement of weld plates will vary with height of panel. Panels available in 12' to 24' heights.

Pre-Cast Concrete Building Panels

Pre-Stressed Double-Tee

For Strong, Long-Lasting Buildings.

Strong . . . Pre-stressed concrete, a combination of compressed concrete and high tensile strength steel strands, possesses great strength and built-in resistance to stresses and loads. It offers builders many advantages including rapid construction, fire, snow and wind resistance and ease of maintenance. In addition, pre-cast concrete products are suitable for a variety of architectural designs.

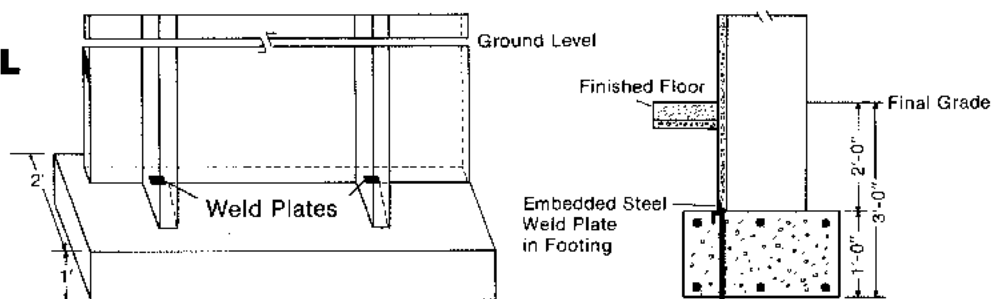
Versatile . . . Pre-stressed concrete double tee building panels adapt easily to any type of roofing style: angle, pitch, or straight. When building a pitch roof, a steel bar joist or wood trusses are easily used, tar and gravel, shingles, or metal may be used to finish the roof. A tar and gravel finish offers excellent weather resistance.

A 30 ft. maximum clear span is possible with a 14" double tee.

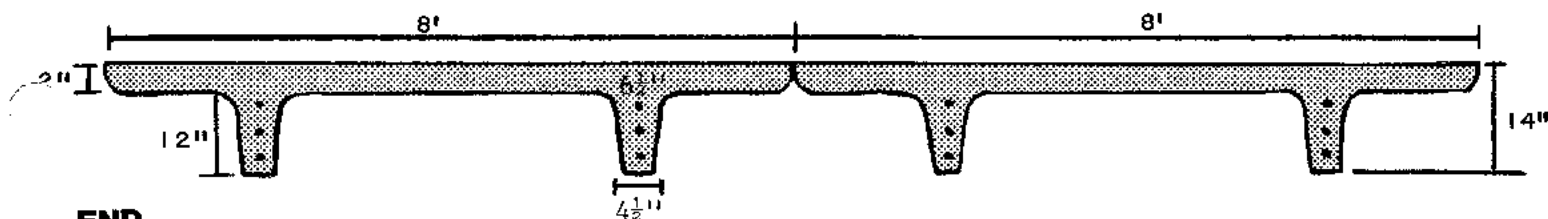
No foundation is required. Double tees can be placed directly on footing. This saves time and money.

FOOTINGS FOR PRESTRESSED PANEL

Footing may vary according to soil condition and loads.

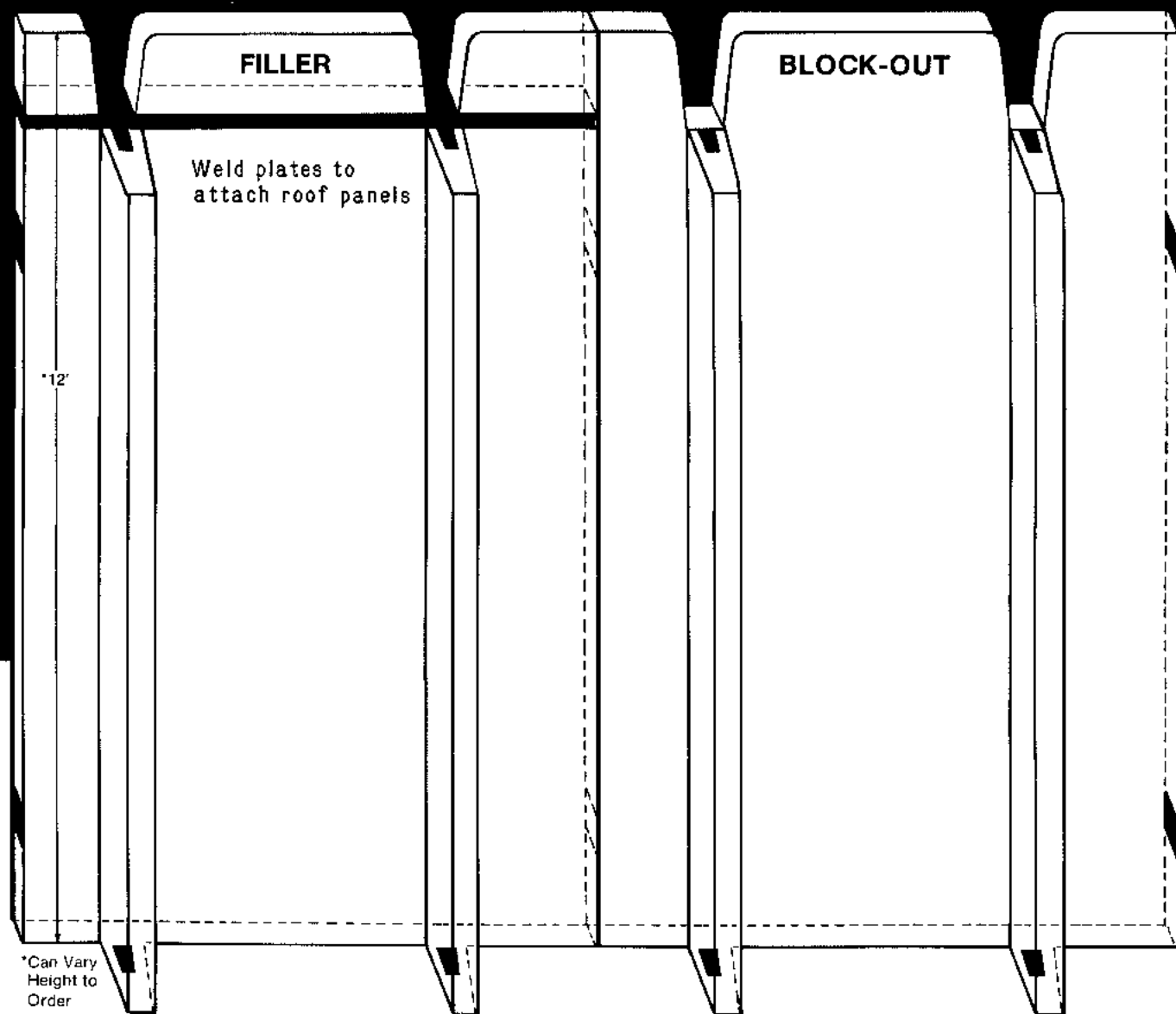


ROOF PANEL



END VIEW

Three 1/2" cable strands go through the full length of each leg on roof panel



FRONT VIEW

*Can Vary Height to Order

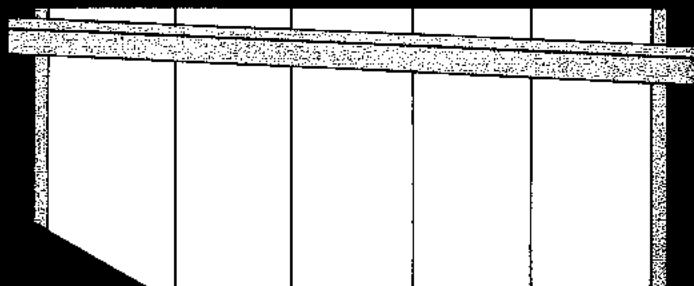
Economical, and Durable . . . Double tee is one of the most widely used building forms because it provides functional, economical construction. Double tee panel buildings resist corrosion and are easy to maintain. No painting is needed.

Pre-Stressed buildings are energy wise, and are adaptable to all types of insulation. Windows and walk-in doors can be blocked out when panels are poured, or they can be cut out at the

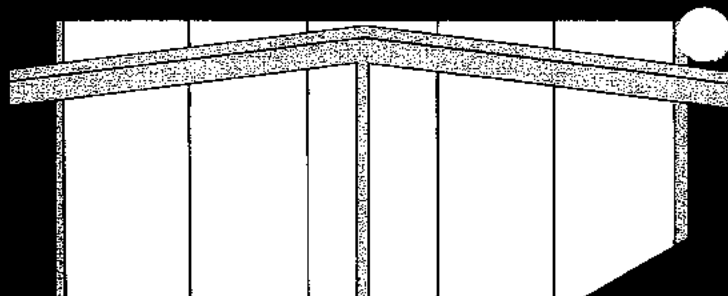
job site. Many types of overhead or sliding doors for large entrances can be used. This type of construction may even help deter vandalism.

Call us for more information. Panels may be purchased f.o.b. at our plant, and we will load your truck. We also deliver to the construction site, and will erect the building for you if desired.

ROOF LINES



ANGLE



PITCH

1/2" per foot is the slope suggested for roof lines

Bire single-ply roofing over insulation makes a quality roof

For more information and estimates
Call or write location nearest you.

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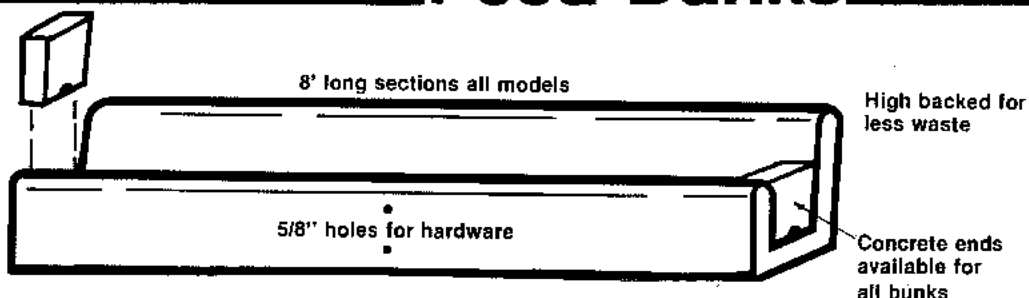


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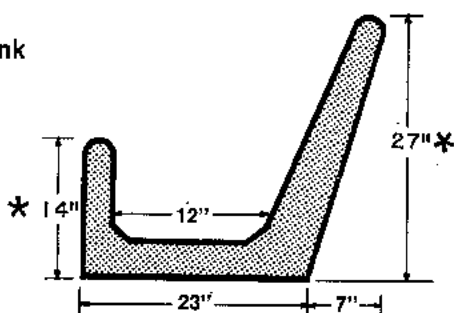
Precast Concrete

Feed Bunks



**Easy to install, clean, move. Economical
High Re-Sale Value - Buy any size you need.**

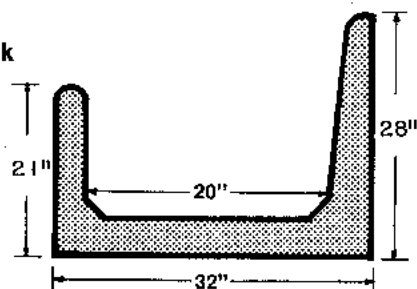
**Small
Feed Bunk**



SPECIFICATIONS

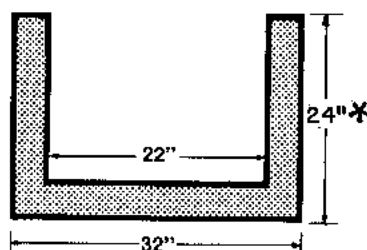
Length	8ft.
Back	27"
Front	14"
Overall back height	30"
Overall front height	17"
Weight	1750 lb.

**Large
Feed Bunk**



Length	8ft.
Back	28"
Front	21"
Overall back height	28"
Overall front height	21"
Weight	2850 lb.

Concrete
4000 P.S.I. (Minimum)
Reinforced with
Rebar and Wire Mesh



Universal bunk can be used inside pens.
This bunk also makes excellent water trough-
holds 160 gallons with ends ready to use.

Length	8 ft.
Back	21"
Front	21"
Overall height	24"
Weight	2400lb.

* Overall height includes height provided by 3" tall leg - Each bunk has 2 legs

Actual dimensions of concrete products may vary slightly.

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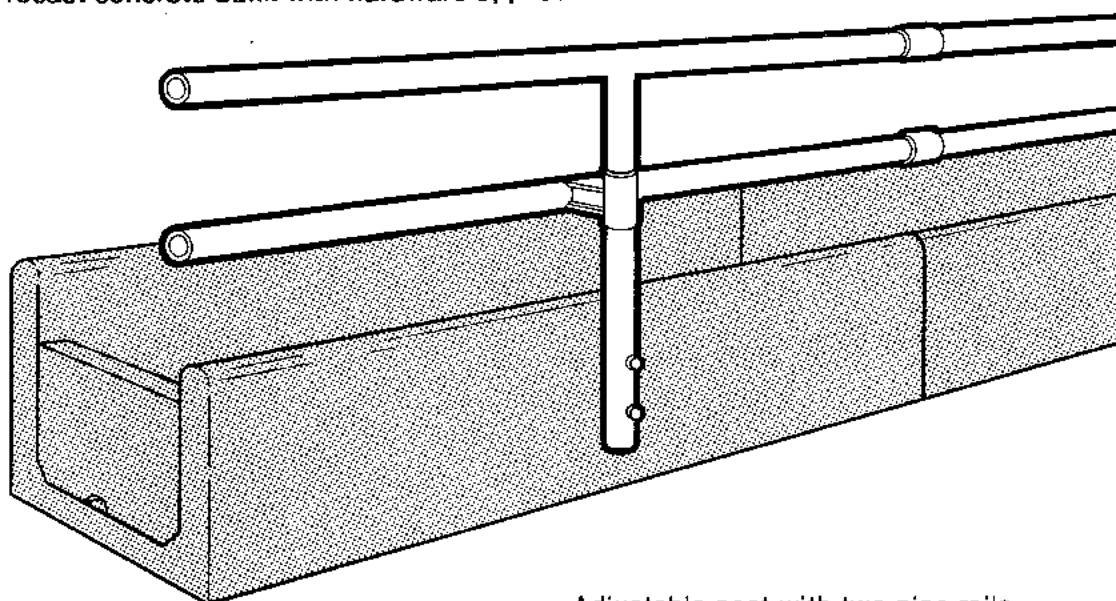
UPDATED 11/97

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FEED BUNK HARDWARE

FOR REFERENCE ONLY

Precast concrete bunk with hardware applied

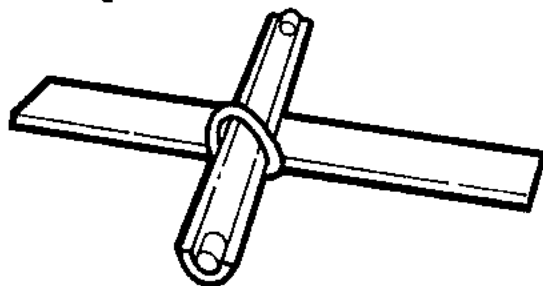


Vertical pipe bolts to center of bunk
Holes are cast into the bunk to receive bolts.

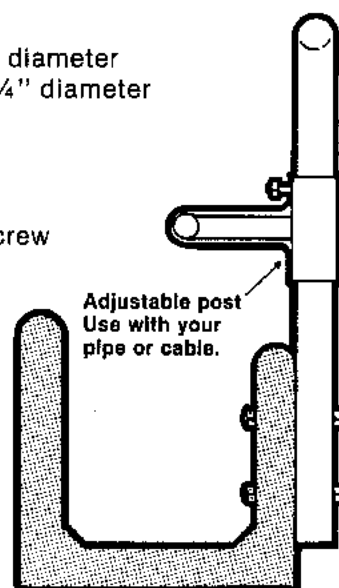
Adjustable post with two pipe rails attached. Adjustable post without horizontal pipe rails - to be used with buyers' own pipe or cable.

42" high
Vertical pipe: 1½" diameter
Horizontal pipe: 1¼" diameter

Moving Rack



Adjustable collar:
2" pipe
6" long with set screw



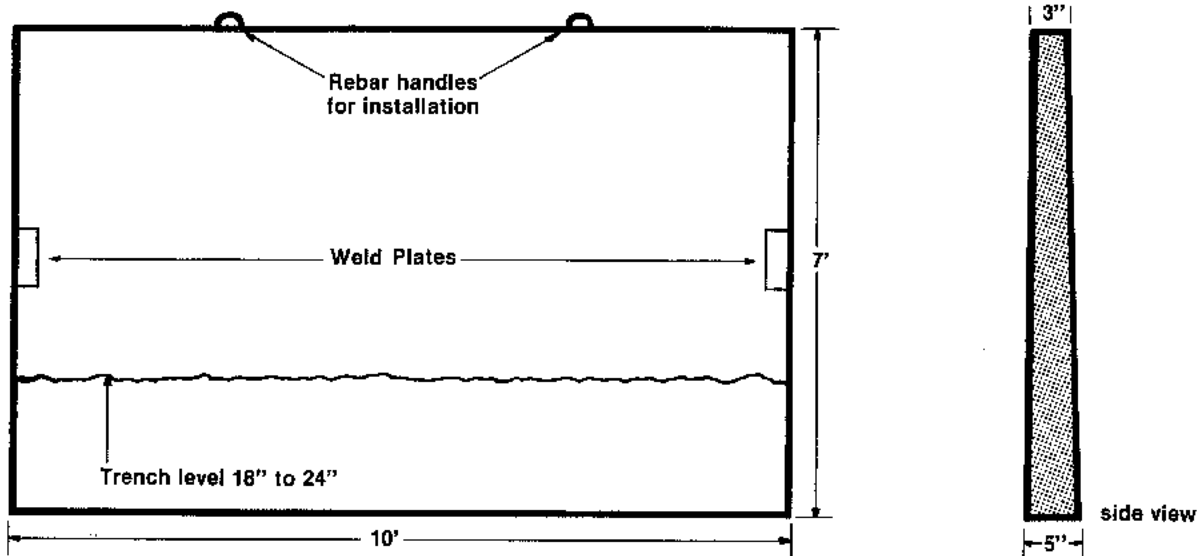
Adjustable post
Use with your pipe or cable.

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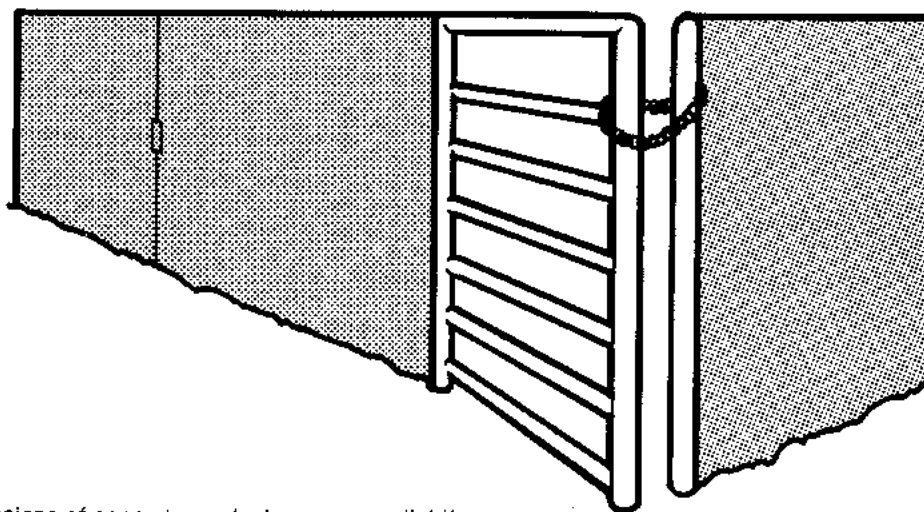
Fence Panel



Weight 4000 lbs.

Concrete panels make a good screening fence, and an effective windbreak with the extra strength and sturdiness needed for corrals.

Application of Vaughn Concrete Products Fence



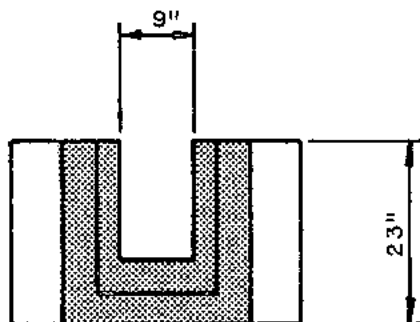
Actual dimensions of concrete products may vary slightly.

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Irrigation Water Measuring Flumes

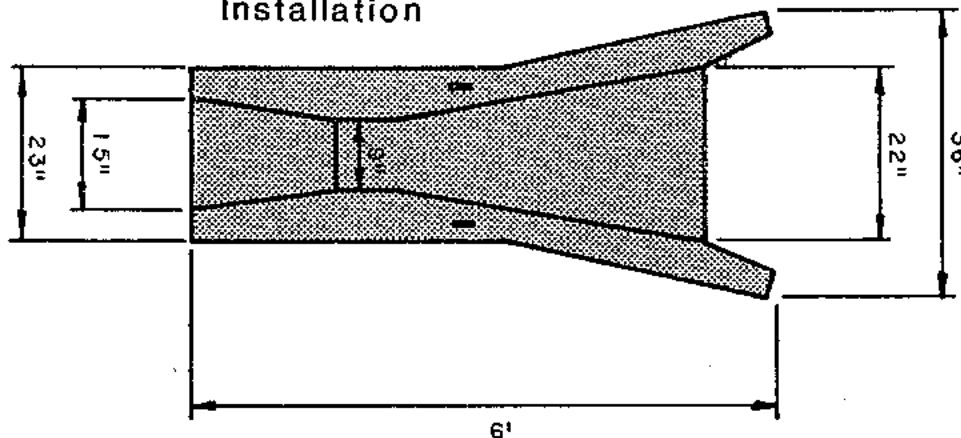


Two Sizes Available
9" & 12"

Flat Bottom - makes
them easier to set

Flared Inlet -for smooth
water flow less chance
of washout

Porcelain measuring gauge
measures in 10ths -can
be mounted either side

Rebar Handles For
Installation

Flume Weights: 9" - 2,150 lbs.
12" - 4,500 lbs.

High Quality Casting
Steel Reinforced Concrete

Actual dimensions of concrete products may vary slightly.

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Precast Concrete

IRRIGATION CHECKGATE

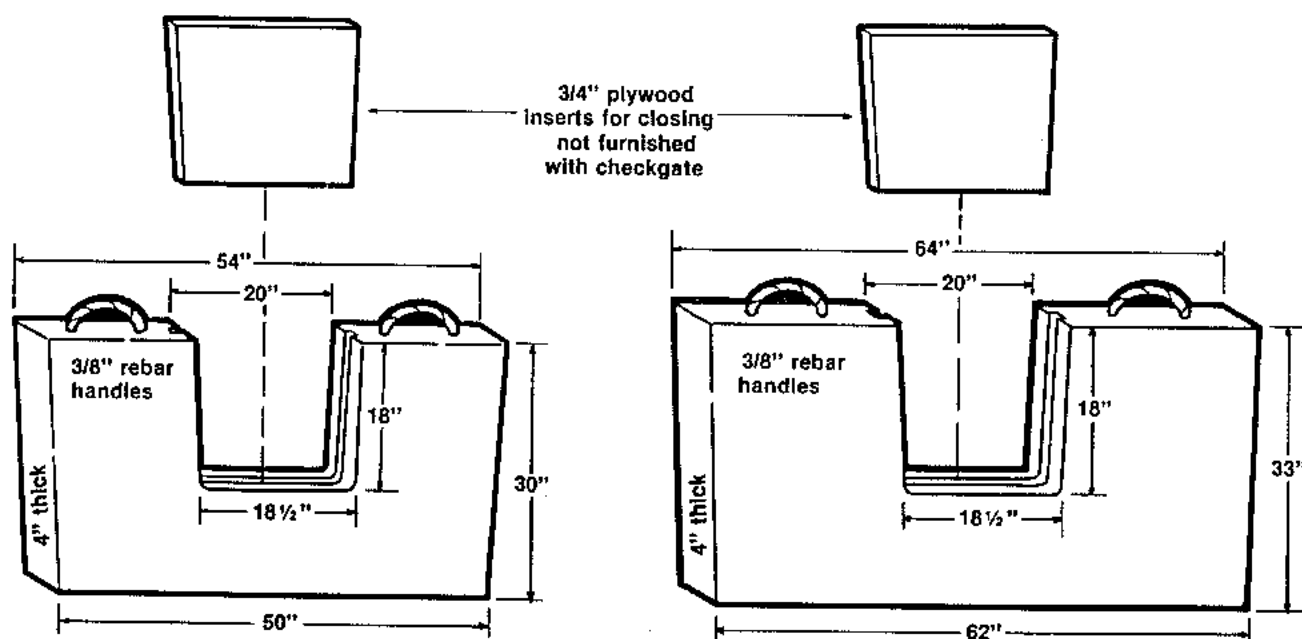
Two sizes: 4'6" x 30" 5'4" x 32"

Small Checkgate

Weight: 450 lbs.

Large Checkgate

Weight: 610 lbs.



Actual dimensions of concrete products may vary slightly

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Precast Concrete

SILO

Upright Bunker

Featuring a single component design for fast erection and completion.

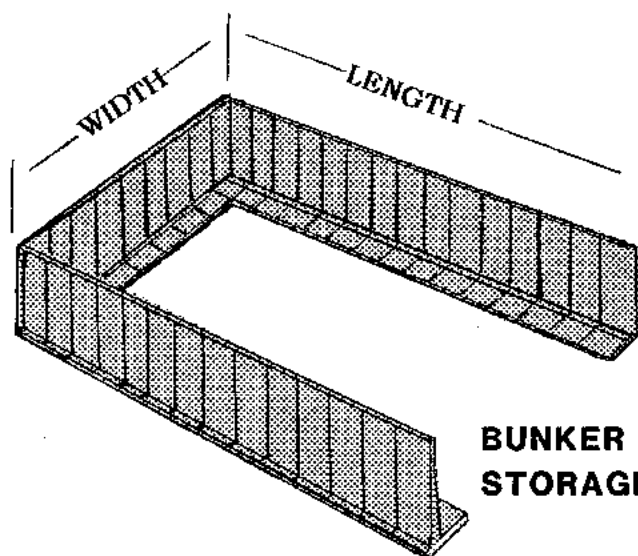
The sections may be dismantled and re-located, customers may select any length or width in increments of 5 feet ~2 inches.

In addition to silage storage, these upright units may be used as retaining walls or manure pits.

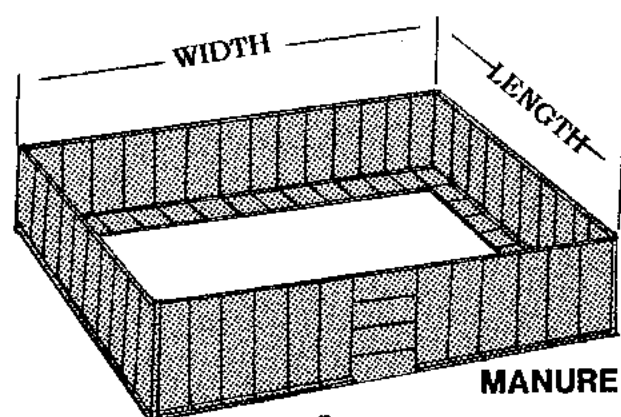
TONNAGE TABLE FOR 8 FT. SIDEWALLS

LENGTH & WIDTH	30	40	50	60
60	323	432	540	646
70	376	504	630	753
80	431	576	720	862
90	485	648	808	971
100	539	720	900	1078
110	593	792	989	1187
120	648	864	1080	1296
130	688	936	1170	1376
140	755	1008	1260	1510
150	808	1080	1350	1616

BASED ON LEVEL FILL WITH 45 LBS./CU. FT.



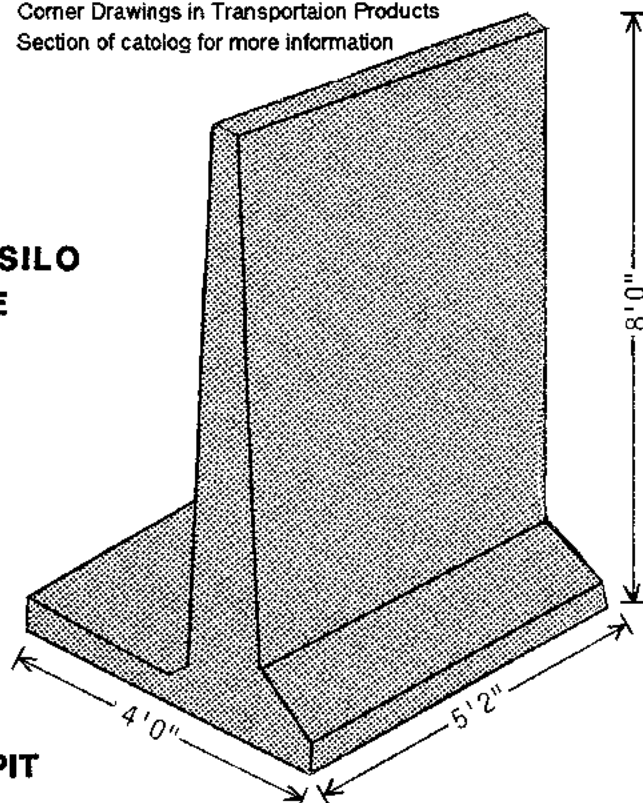
BUNKER SILO STORAGE



MANURE PIT

SECTIONS WELD OR BOLT TOGETHER

See Retaining Wall and Retaining Wall Corner Drawings in Transportation Products Section of catalog for more information



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Actual dimensions of concrete products may vary slightly

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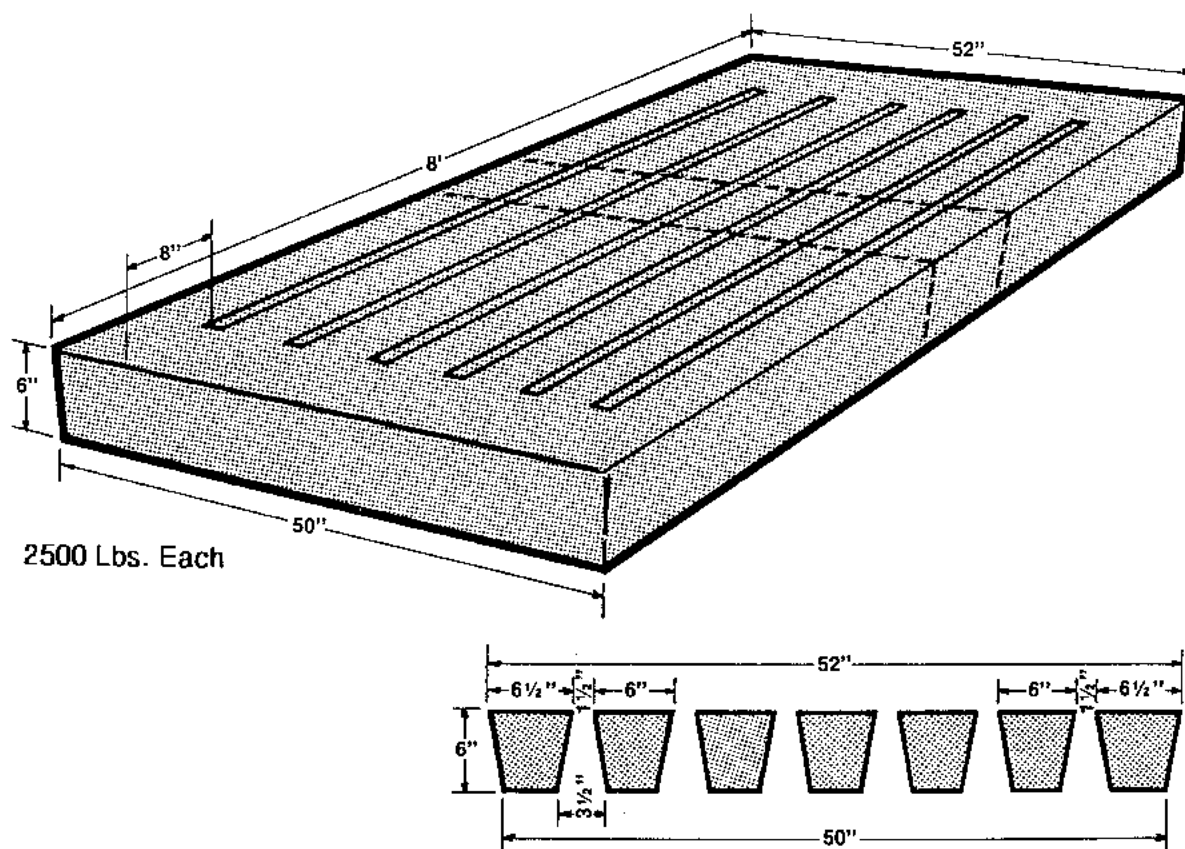
Precast Concrete

Slotted Floors

For Cattle or Hogs

Improve your cattle barn or hog house by installing a concrete slotted floor system, using our 52" x 8' slotted sections.

Floor areas will be much easier to keep clean. And bedding is eliminated – it won't be necessary once you have installed a Vaughn precast concrete slotted floor system.



2500 Lbs. Each

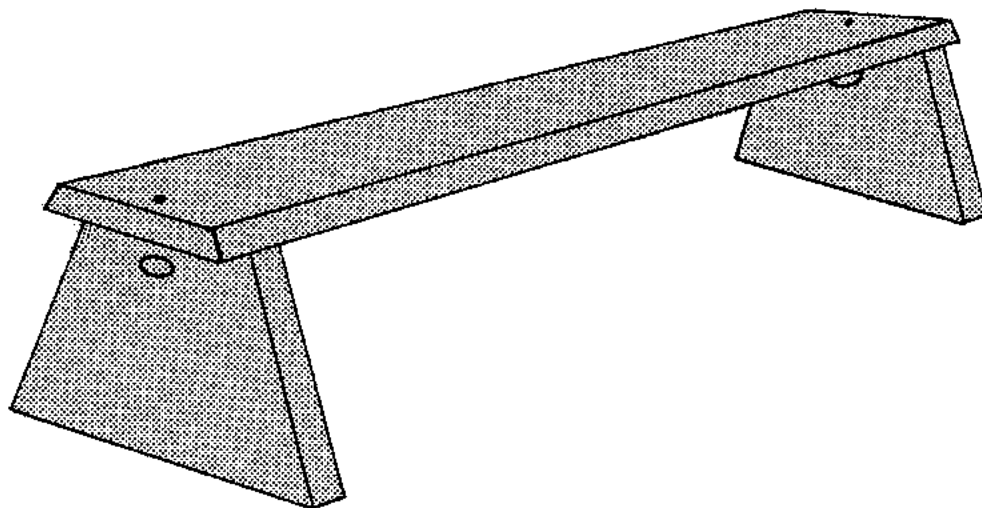
Actual dimensions of concrete products may vary slightly.

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Precast Concrete

BENCH

DESIGN ➔ Constructed of 3 pieces that bolt together for ease & simplicity of installation. Makes a seating area of 13" x 6'. Bolt holes may be filled & grouted to conceal bolt head. Bench is approximately 18" Tall

DURABILITY ➔ Tough, steel reinforced precast concrete for long life

MAINTENANCE ➔ Smooth finish, no painting required, won't rot or splinter. Sturdy, vandal resistant.

AFFORDABLE ➔ Reasonably priced, great for adding to or just starting your outdoor landscaping

Weight: 430 lbs.

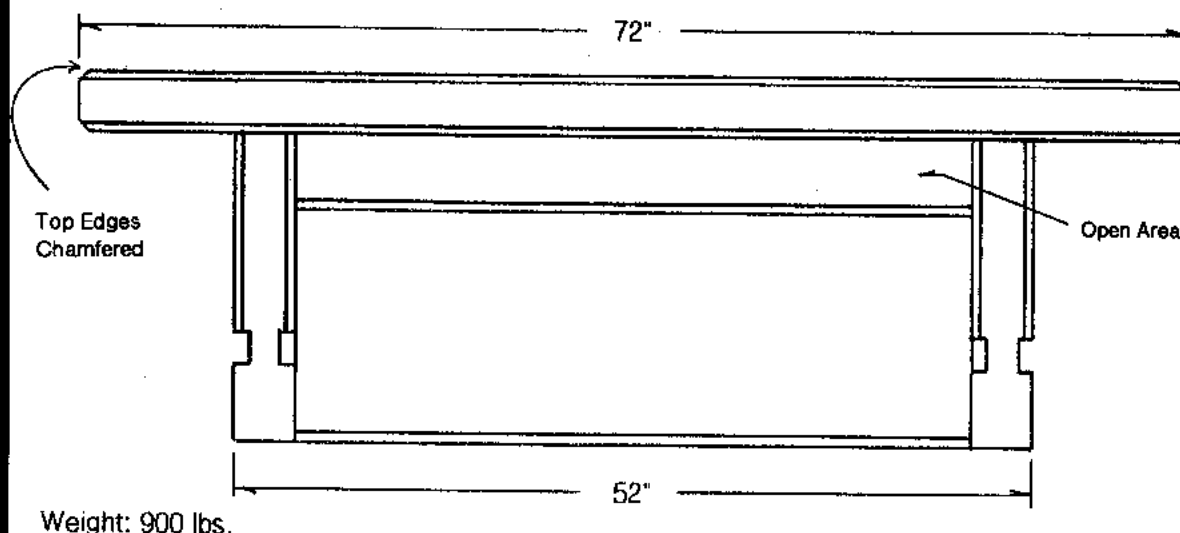
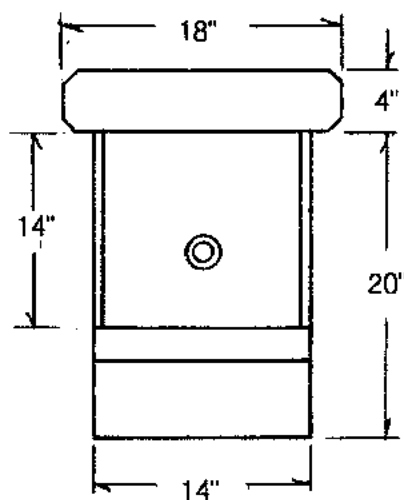
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Precast Concrete

DECORATIVE BENCH**Side View**

Unit Bolts Together
Pocket In Bench Seat
May Be Grouted Or Caulked
After Assembly

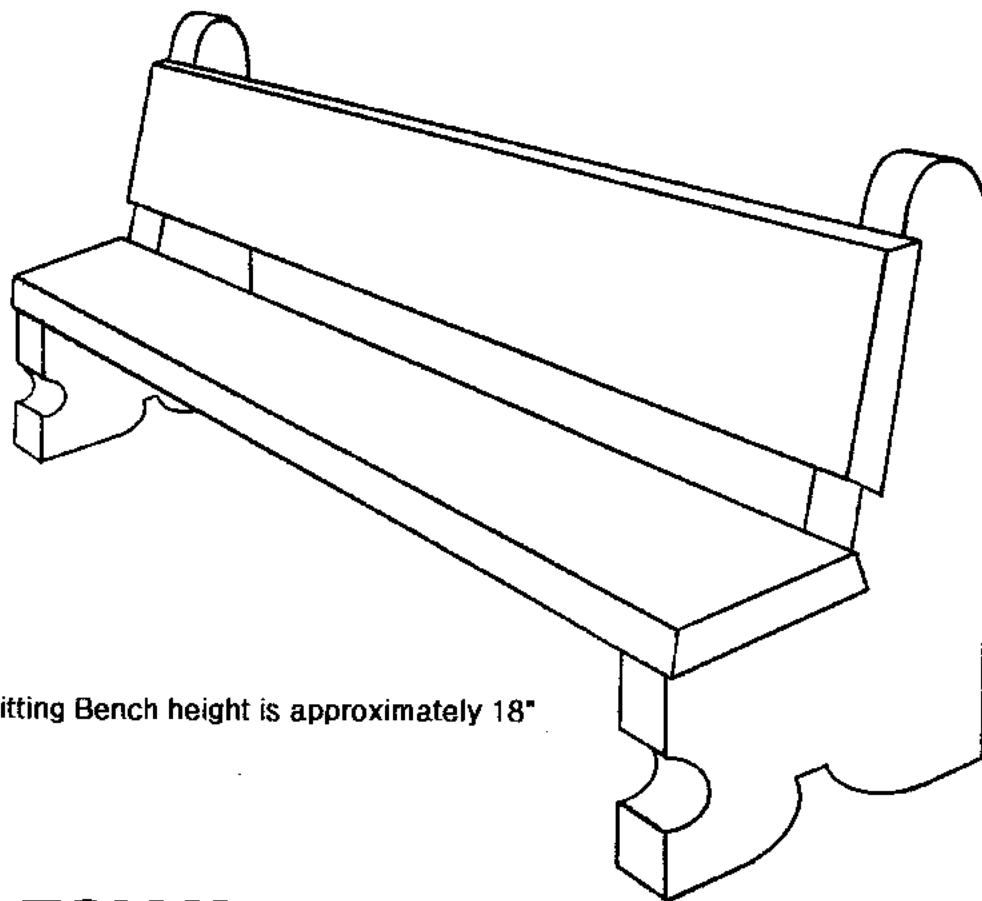
Legs Are Normally
Set In Concrete

End View

Actual dimensions of concrete products may vary slightly

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PARK BENCH

Sitting Bench height is approximately 18"

DESIGN:

Constructed of 4 pieces that bolt together
for simple assembly.

Seating slab and back 13"x72", legs are 38" tall, 25" wide
Bolt holes may be filled & grouted to conceal bolt heads

DURABILITY:

Tough, steel reinforced precast concrete for long life

Smooth finish, no painting required

Won't rot or splinter

Must be placed on a firm, flat base

Weight: 860 lbs.

Actual dimensions of concrete products may vary slightly

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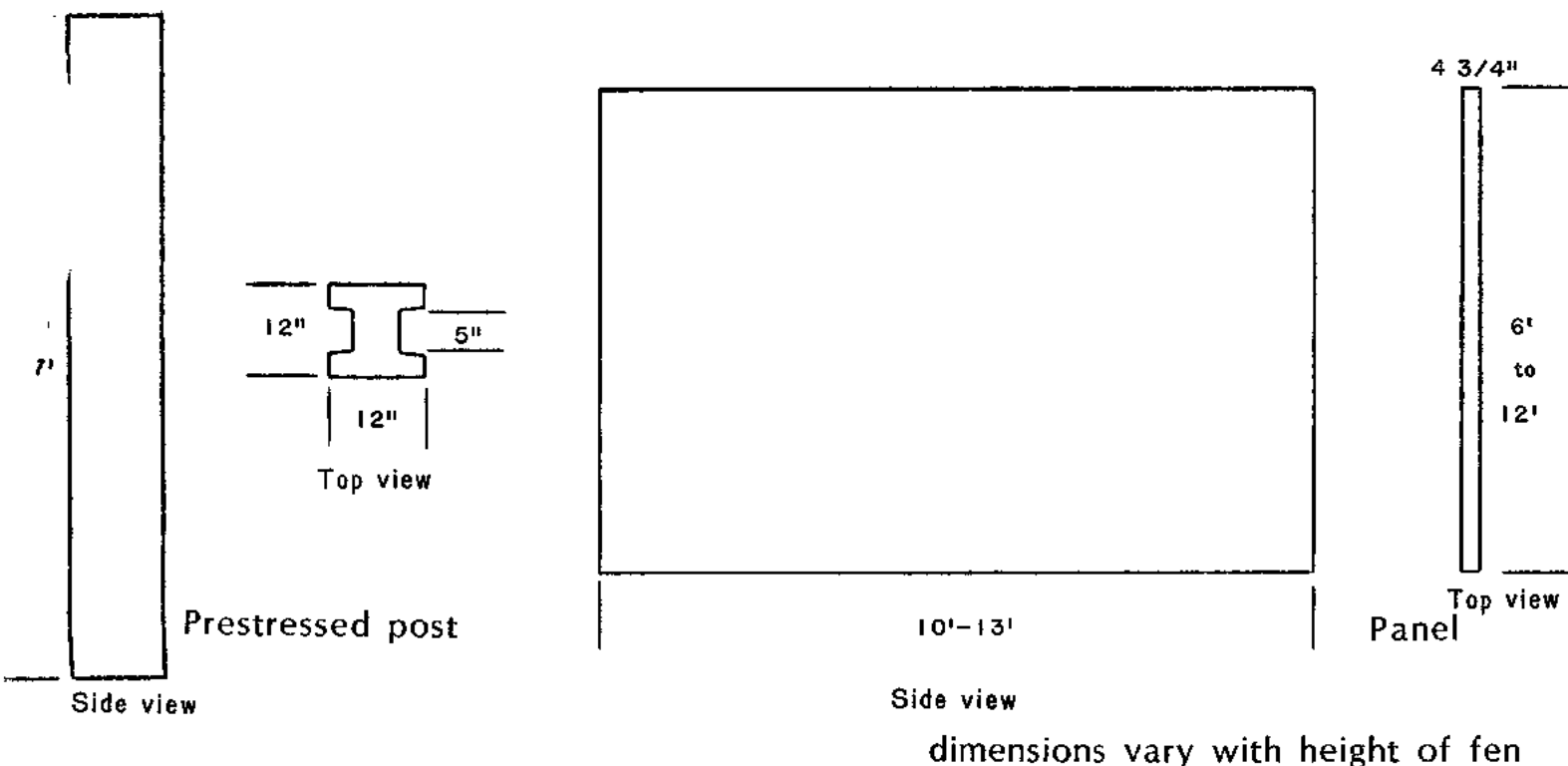
vaughn concrete products

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Precast Concrete Fence

Precast Concrete Fence



Benefits

ECONOMICAL:

- Long lasting durable concrete
- Won't rust, burn, melt, rot, or decay
- Maintenance free
- Never needs replacing

PROTECTION:

- Protects your privacy
- Protects your property from intrusions
- Can't be tampered with or cut
- Protection from wind and noise

BEAUTY:

- Enhances any landscape
- Attractive on both sides
- Looks new even years later
- You also get the additional benefits of many attractive colors, finishes, and layouts

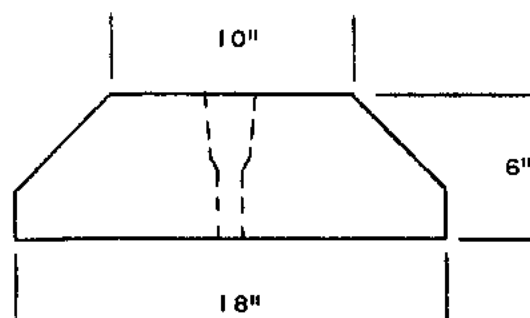
INSTALLATION:

- Panels slide into prestressed posts slots for easy installation
- Prestressed posts hold the panels securely in place
- Resists wind, water, and snow. Won't warp or bend

VARIETY OF USES

Privacy fence
 Security fence
 Perimeter walls around apartments,
 yards, patios, and pools
 Sound barrier fence along
 roads and highways
 Add value to your property

Prestressed post and reinforced panel are designed and manufactured to withstand wind pressure of 30 PSF (approx. 90 MPH)



Decorative cap

Attractive Options

Fence post caps
 Finishes – anti acoustic for
 additional noise reduction,
 smooth, stucco, rake,
 Exposed aggregate, moss rock,
 and a variety of other finishes
 Colors to match or blend
 with surrounding buildings
 Height – 6 ft., 8 ft.,
 10 ft., and 12 ft.

Panel sizes

6' x 13'
 8' x 13'
 10' x 12'
 12' x 10'

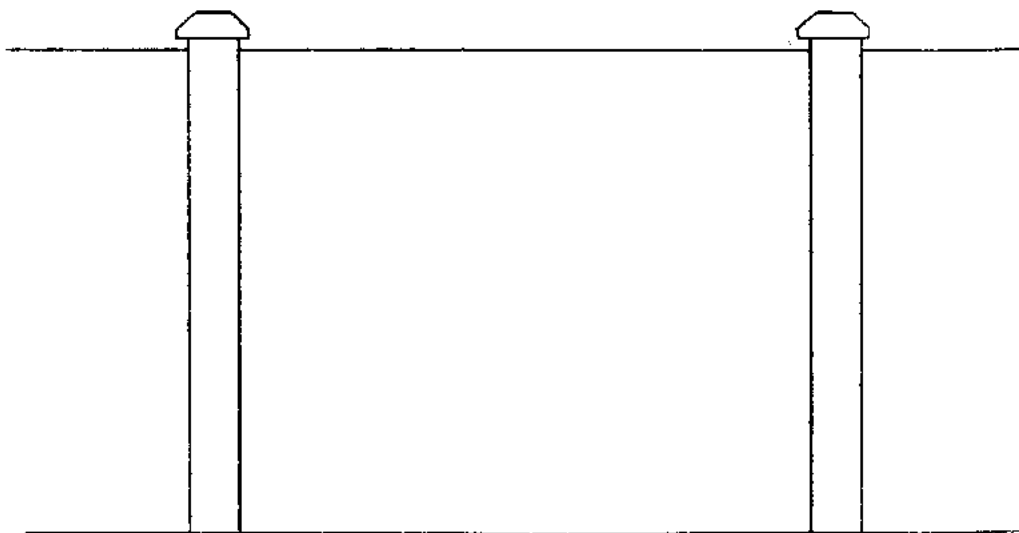
Designed to be Versatile, Durable, and Attractive. Both commercial and residential property can benefit from having a Vaughn Precast Fence.

Make installation even easier by having Vaughn's install it for you



12650 Tucson Street • Henderson, Colorado 80640 • (303) 659-3747
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- Privacy
- Security
- Decorative
- Noise reduction
- Wind reduction



**Your commercial or residential property shouldn't be without
A Vaughn Precast Concrete Fence**

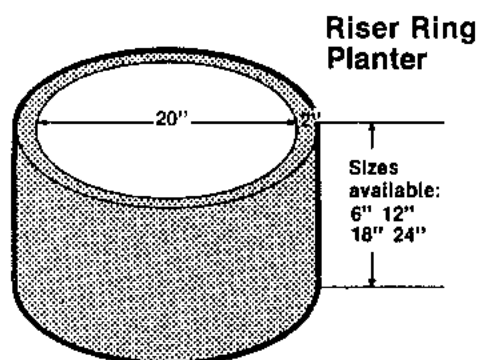
For more information and estimates
Call or write location nearest you.

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2671 So. Greeley Highway • Cheyenne, Wyoming 82007 • (307) 634-0695
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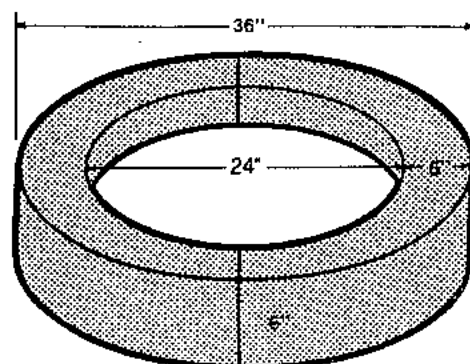
 **vaughn
concrete products, inc.**
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Precast Concrete

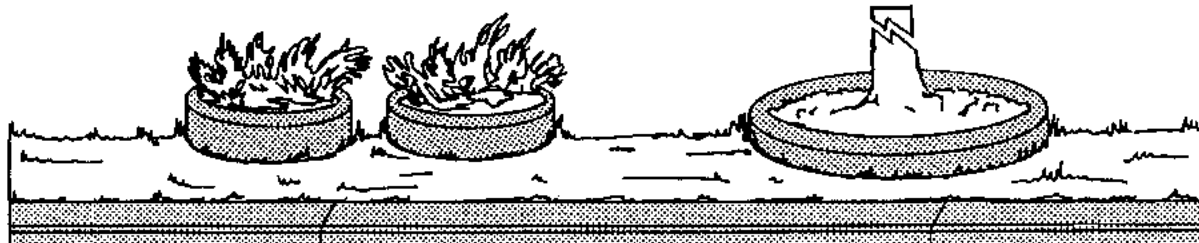
Landscaping Products



Tree Ring

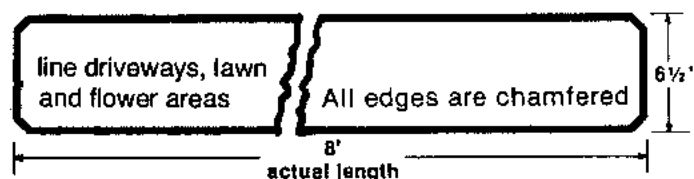
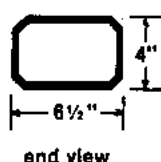


Weight: 240 lbs.

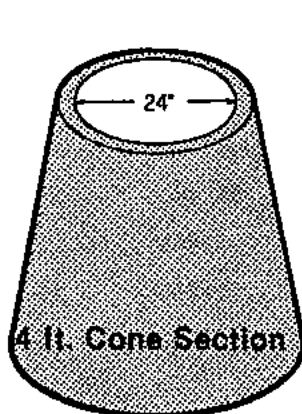


Border Posts

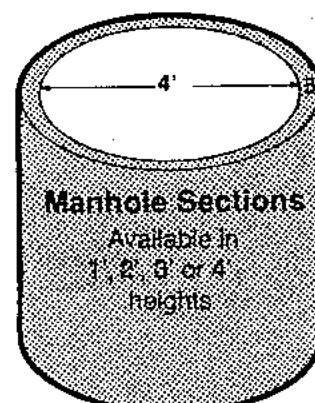
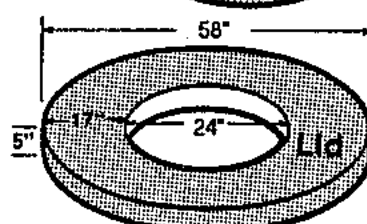
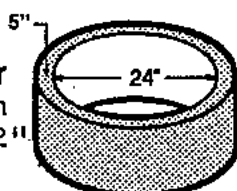
Weight: 210 lbs.



or Use Manhole items for larger planters.



Manhole Riser

Available in
heights 2" to 12"

Actual dimensions of concrete products may vary slightly.

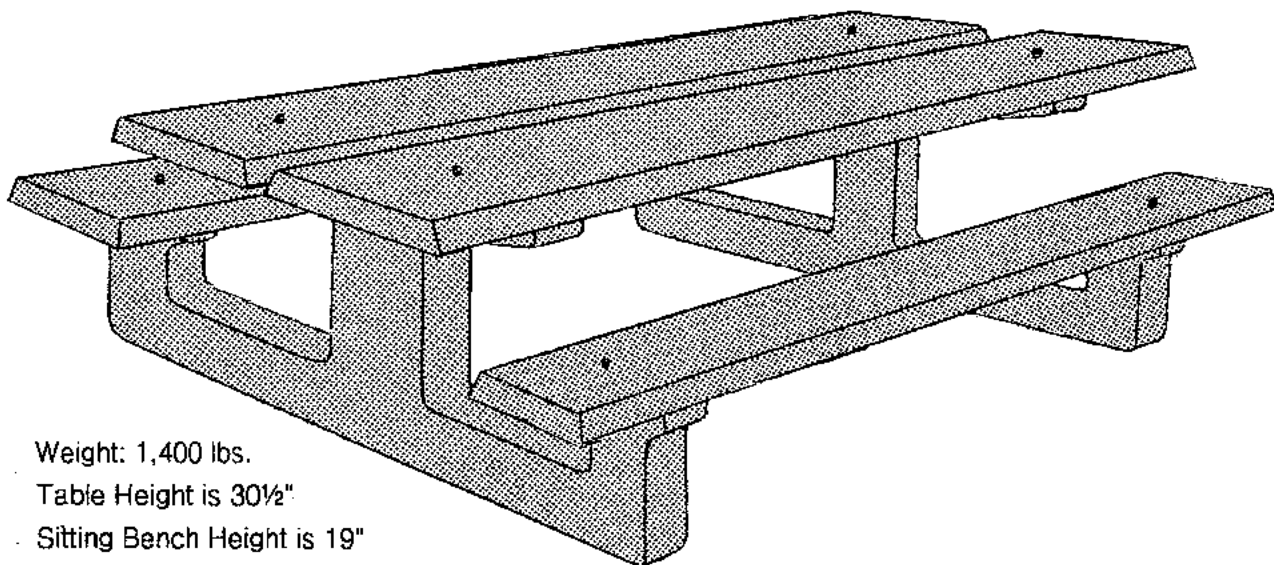
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Precast Concrete

PICNIC TABLE

Treat Yourself To A
VAUGHN CONCRETE PRODUCTS
 Picnic Table Complete With Benches



Weight: 1,400 lbs.

Table Height is 30½"

Sitting Bench Height is 19"

DESIGN:

Constructed of 6 pieces that bolt together for ease & simplicity of installation. Makes a table top area of 2 1/2 ft. x 6 ft. Benches are 13 in. x 72 in. Bolt holes may be filled & grouted to conceal bolt head.

DURABILITY:

Tough, steel reinforced precast concrete for long life.

MAINTENANCE:

Smooth finish, no painting required, won't rot or splinter. Sturdy, vandal resistant, won't tip over.

Actual dimensions of concrete products may vary slightly.

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UPDATED 11/97

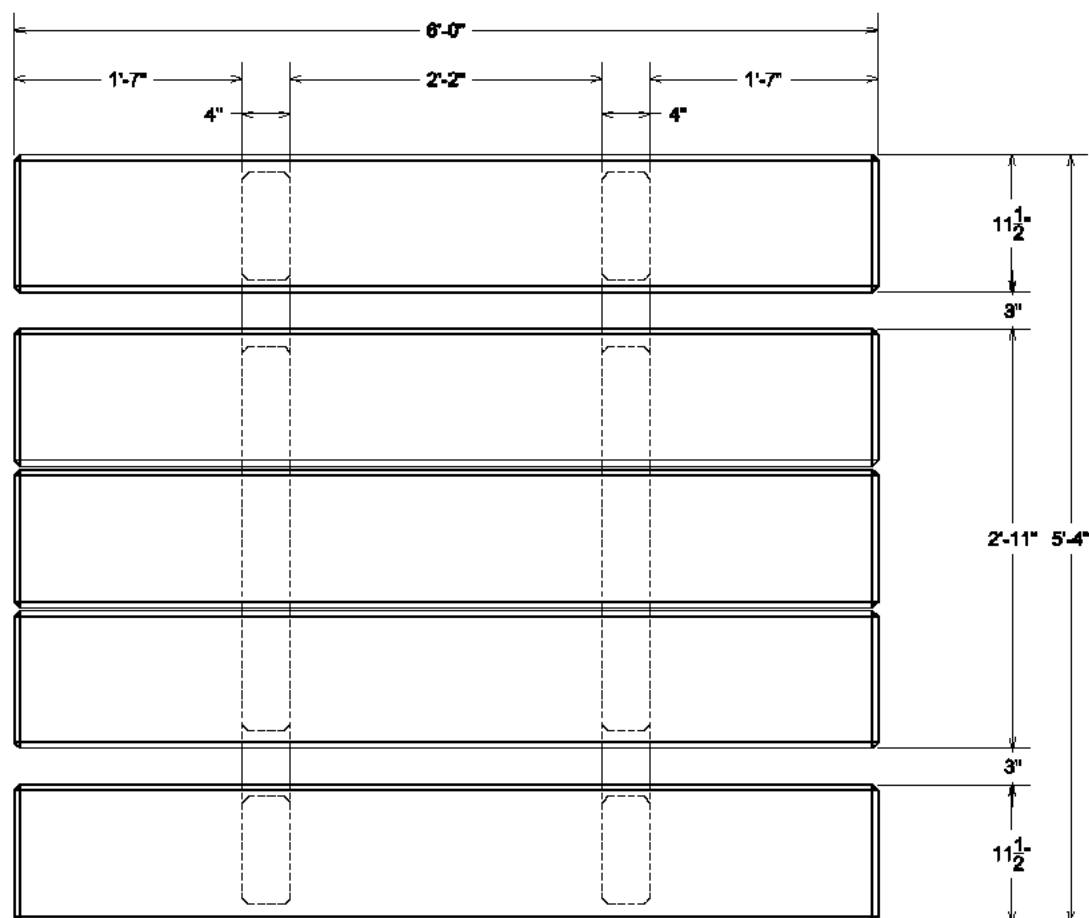
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PRECAST CONCRETE PICNIC TABLE

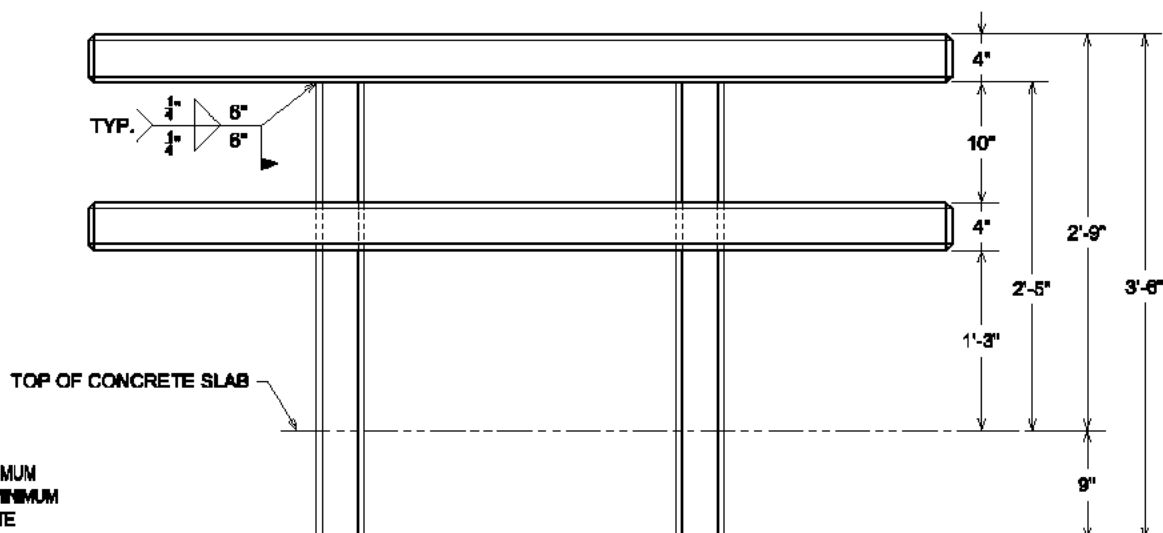
PER WYDOT SPECIFICATIONS

SHEET 1 OF 4

ASSEMBLED PLAN VIEW



ASSEMBLED SIDE VIEW



NOTES:

- CONCRETE: 4000 P.S.I. MINIMUM
- REINFORCING: GRADE 60 MINIMUM
- STANDARD GRAY CONCRETE
- STEEL FORM & STEEL TROWEL FINISH, TYP.
- SUPPLIED WITH GALVANIZED STEEL WELD PLATE CONNECTIONS UNDER TABLE FOR CONTRACTOR TO FIELD WELD & COLD GALVANIZE AFTER WELDING
- TABLE SUPPORTS TO BE REINFORCED w/ #4 REBAR 1 1/2" FROM PERIMETER EDGES CENTERED IN 4" THICKNESS; EACH TABLE/BENCH SLAB REINFORCED w/ (4) #4 REBARS CENTERED IN 4" THICKNESS RUNNING LENGTH-WISE WITH 1 1/2" COVER OFF SIDES AND ENDS; PROVIDE #4 REBARS @ 12" O.C. ON TOP OF (4) #4 REBARS THAT RUN THE LENGTH OF THE SLAB

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

PICNIC TABLE - WYDOT.DWG
DATE CREATED: 12/09

DRAWING SCALE IS 1:16

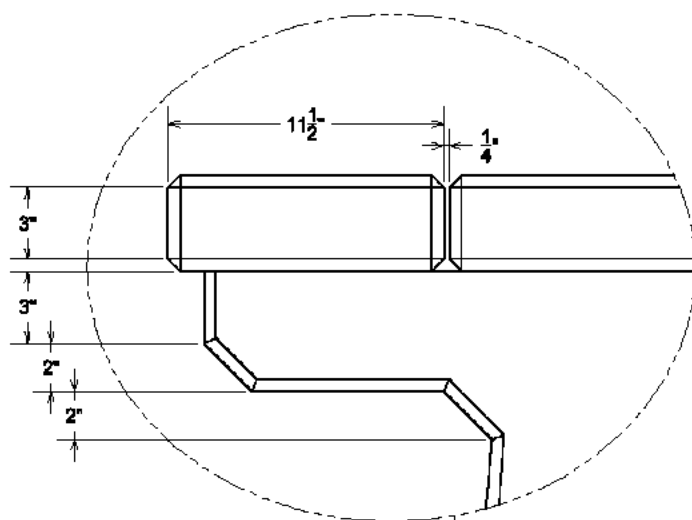
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concrete products, inc.

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Toll Free (877) 827-8255 Toll Free Fax (877) 827-7383
(307) 634-0695 Fax (307) 634-0694

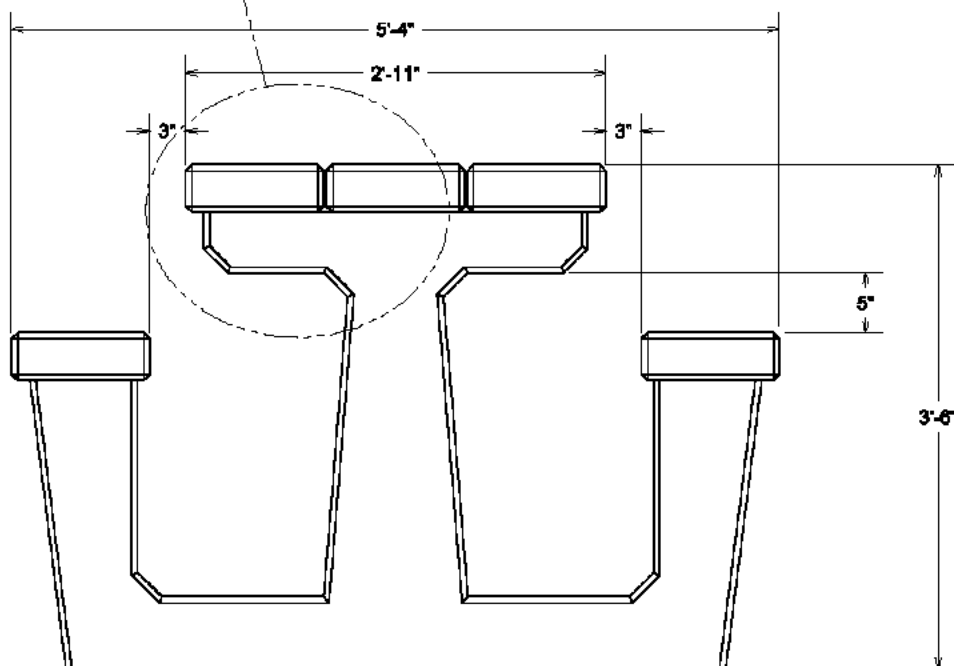
PRECAST CONCRETE PICNIC TABLE

PER WYDOT SPECIFICATIONS

SHEET 2 OF 4



CONTRACTOR TO BEWARE TO PROPERLY PLACE THE HEIGHT OF THE TABLES PER PROJECT REQUIREMENTS;
29" MINIMUM FROM TOP OF SLAB TO UNDERSIDE OF TABLE;
34" MAXIMUM FROM TOP OF SLAB TO TOP OF TABLE



ASSEMBLED END VIEW

NOTES:

- CONCRETE: 4000 P.S.I. MINIMUM
- REINFORCING: GRADE 60 MINIMUM
- STANDARD GRAY CONCRETE
- STEEL FORM & STEEL TROWEL FINISH, TYP.
- SUPPLIED WITH GALVANIZED STEEL WELD PLATE CONNECTIONS UNDER TABLE FOR CONTRACTOR TO FIELD WELD & COLD GALVANIZE AFTER WELDING
- TABLE SUPPORTS TO BE REINFORCED w/ #4 REBAR 1 1/2" FROM PERIMETER EDGES CENTERED IN 4" THICKNESS; EACH TABLE/BENCH SLAB REINFORCED w/ (4) #4 REBARS CENTERED IN 4" THICKNESS RUNNING LENGTH-WISE WITH 1 1/2" COVER OFF SIDES AND ENDS; PROVIDE #4 REBARS @ 12" O.C. ON TOP OF (4) #4 REBARS THAT RUN THE LENGTH OF THE SLAB

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

PICNIC TABLE - WYDOT.DWG
DATE CREATED: 12/09

DRAWING SCALE IS 1:16

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concrete products, inc.

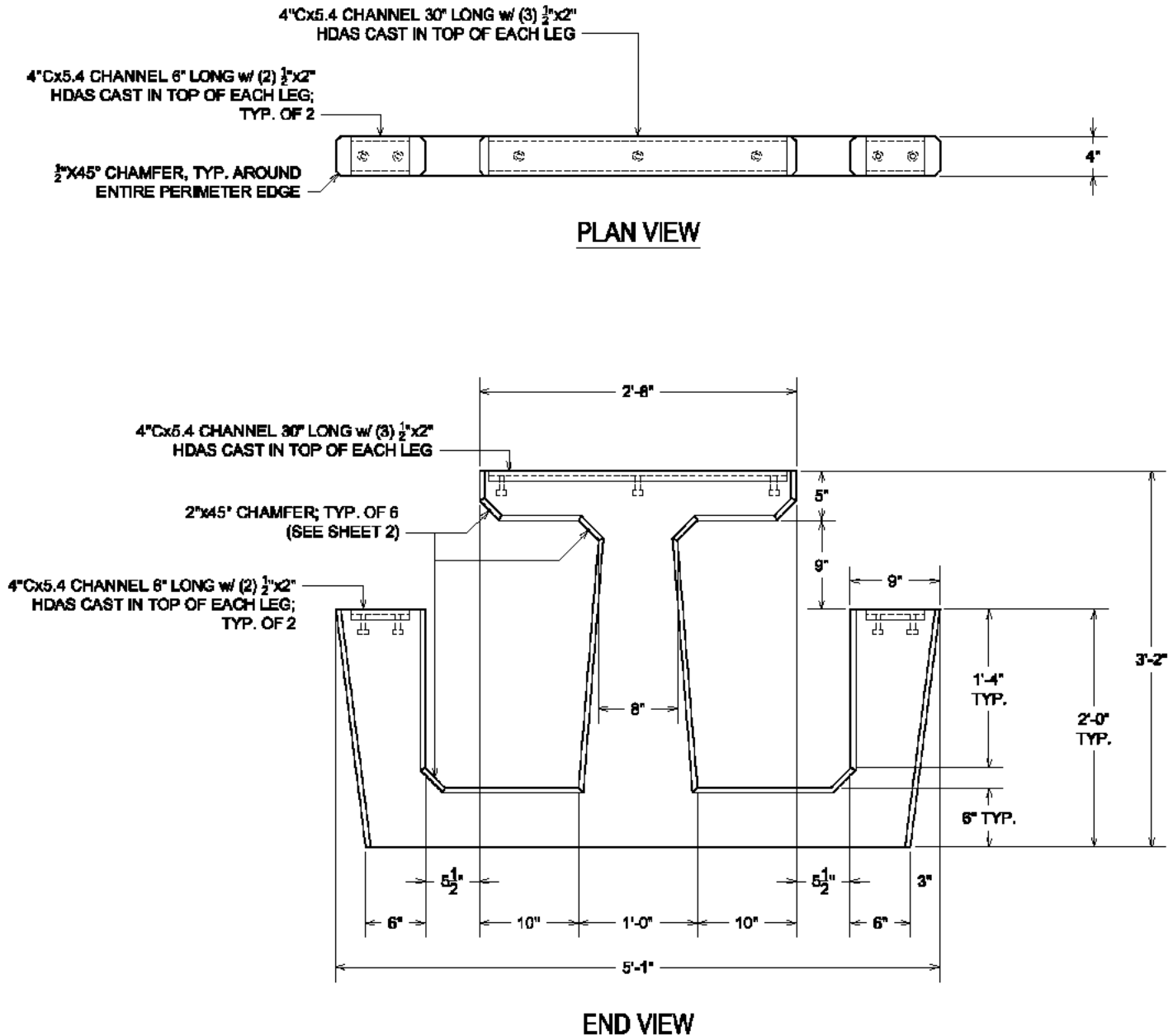
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Toll Free (877) 827-8255 Toll Free Fax (877) 827-7383
(307) 634-0695 Fax (307) 634-0694

PRECAST CONCRETE PICNIC TABLE

DETAIL OF PICNIC TABLE LEG

2 REQUIRED FOR EACH TABLE

SHEET 3 OF 4



NOTES:

- CONCRETE: 4000 P.S.I. MINIMUM
- REINFORCING: GRADE 60 MINIMUM
- STANDARD GRAY CONCRETE
- STEEL FORM & STEEL TROWEL FINISH, TYP.
- SUPPLIED WITH GALVANIZED STEEL WELD PLATE CONNECTIONS UNDER TABLE FOR CONTRACTOR TO FIELD WELD & COLD GALVANIZE AFTER WELDING
- TABLE SUPPORTS TO BE REINFORCED w/ #4 REBAR 1 1/2" FROM PERIMETER EDGES CENTERED IN 4" THICKNESS; EACH TABLE/BENCH SLAB REINFORCED w/ (4) #4 REBARS CENTERED IN 4" THICKNESS RUNNING LENGTH-WISE WITH 1 1/2" COVER OFF SIDES AND ENDS; PROVIDE #4 REBARS @ 12" O.C. ON TOP OF (4) #4 REBARS THAT RUN THE LENGTH OF THE SLAB

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

PICNIC TABLE - WYDOT.DWG
DATE CREATED: 12/09

DRAWING SCALE IS 1:16

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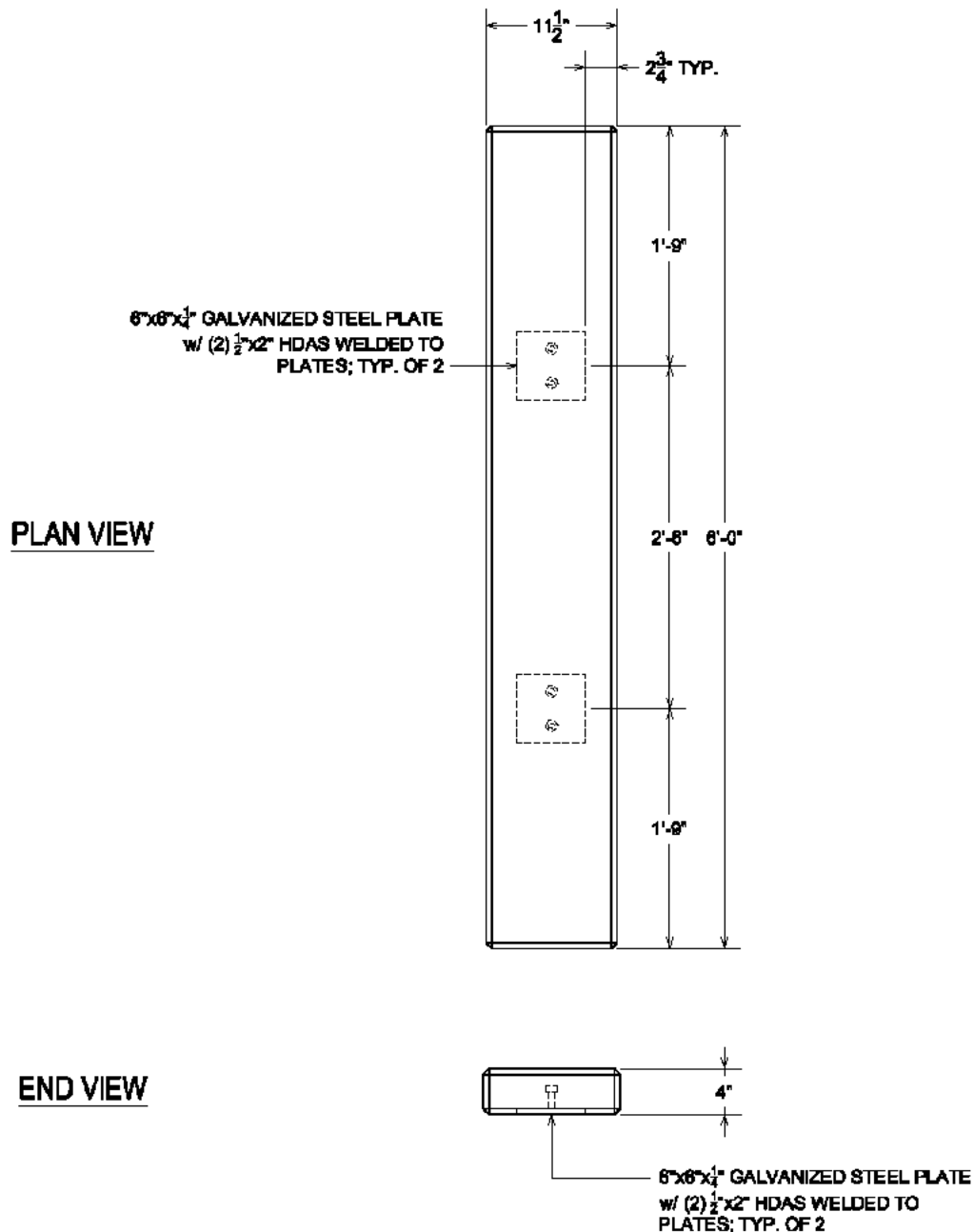
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PRECAST CONCRETE PICNIC TABLE

DETAIL OF PICNIC TABLE BENCH & TABLE SLAB

5 REQUIRED FOR EACH TABLE

SHEET 4 OF 4



NOTES:

- CONCRETE: 4000 P.S.I. MINIMUM
- REINFORCING: GRADE 60 MINIMUM
- STANDARD GRAY CONCRETE
- STEEL FORM & STEEL TROWEL FINISH, TYP.
- SUPPLIED WITH GALVANIZED STEEL WELD PLATE CONNECTIONS UNDER TABLE FOR CONTRACTOR TO FIELD WELD & COLD GALVANIZE AFTER WELDING
- TABLE SUPPORTS TO BE REINFORCED w/ #4 REBAR 1 1/2" FROM PERIMETER EDGES CENTERED IN 4" THICKNESS; EACH TABLE/BENCH SLAB REINFORCED w/ (4) #4 REBARS CENTERED IN 4" THICKNESS RUNNING LENGTH-WISE WITH 1 1/2" COVER OFF SIDES AND ENDS; PROVIDE #4 REBARS @ 12" O.C. ON TOP OF (4) #4 REBARS THAT RUN THE LENGTH OF THE SLAB

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

PICNIC TABLE - WYDOT.DWG
DATE CREATED: 12/09

DRAWING SCALE IS 1:16

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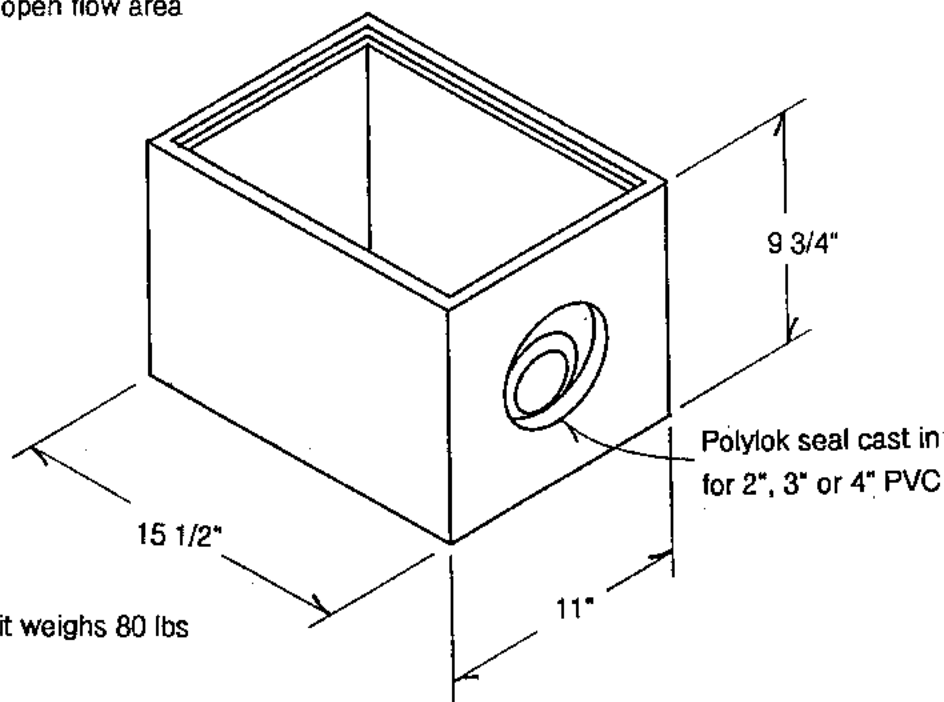
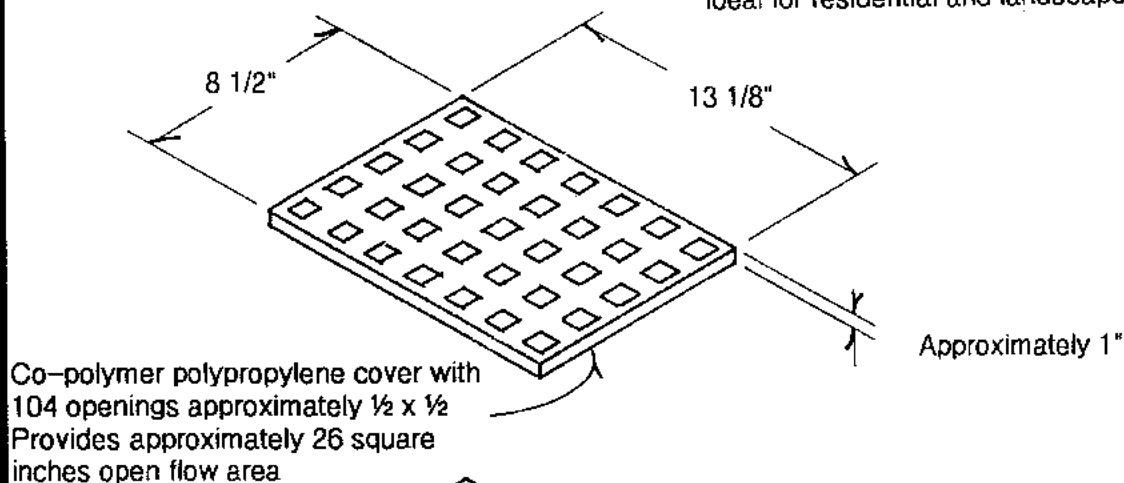
Precast Concrete

RAIN DRAIN

A SIMPLE, PRACTICAL SOLUTION TO SMALL DRAINAGE NEEDS

Not for traffic applications

Ideal for residential and landscape applications



Unit weighs 80 lbs

4000 PSI concrete

Standard unit has 1 pipe exit seal cast in

Additional pipe penetrations with seal available

Actual dimensions of concrete products may vary slightly

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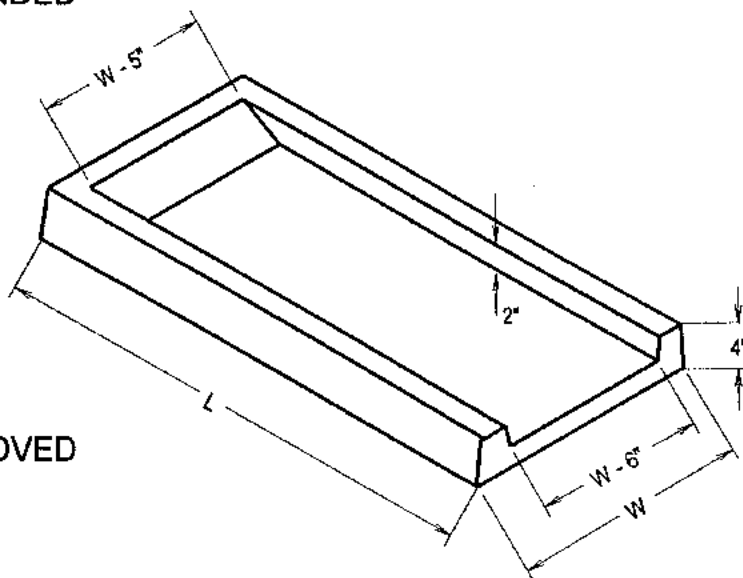
PRECAST CONCRETE SPLASH BLOCKS

USE UNDER DOWN SPOUTS
FOR EROSION CONTROL

FOR COMMERCIAL OR RESIDENTIAL USE

SQUARE ENDED

FHA APPROVED



WIDTH	LENGTH
12"	
3FT. SPLASH BLOCK	34" LONG
5FT. SPLASH BLOCK	58 1/2" LONG
18" (SUPER BLOCKS)	
3FT. SUPER SPLASH BLOCK	34" LONG
5FT. SUPER SPLASH BLOCK	58 1/2" LONG

WEIGHTS:

3FT. - 110 LBS. (APPROX.)

5FT. - 180 LBS. (APPROX.)

3FT. SUPER BLOCK - 170 LBS. (APPROX.)

5FT. SUPER BLOCK - 250 LBS. (APPROX.)

CONCRETE - 4,000 P.S.I. (MINIMUM)
WIRE MESH REINFORCING

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY
DRAWING IS NOT TO SCALE

vaughn
concrete products, inc.

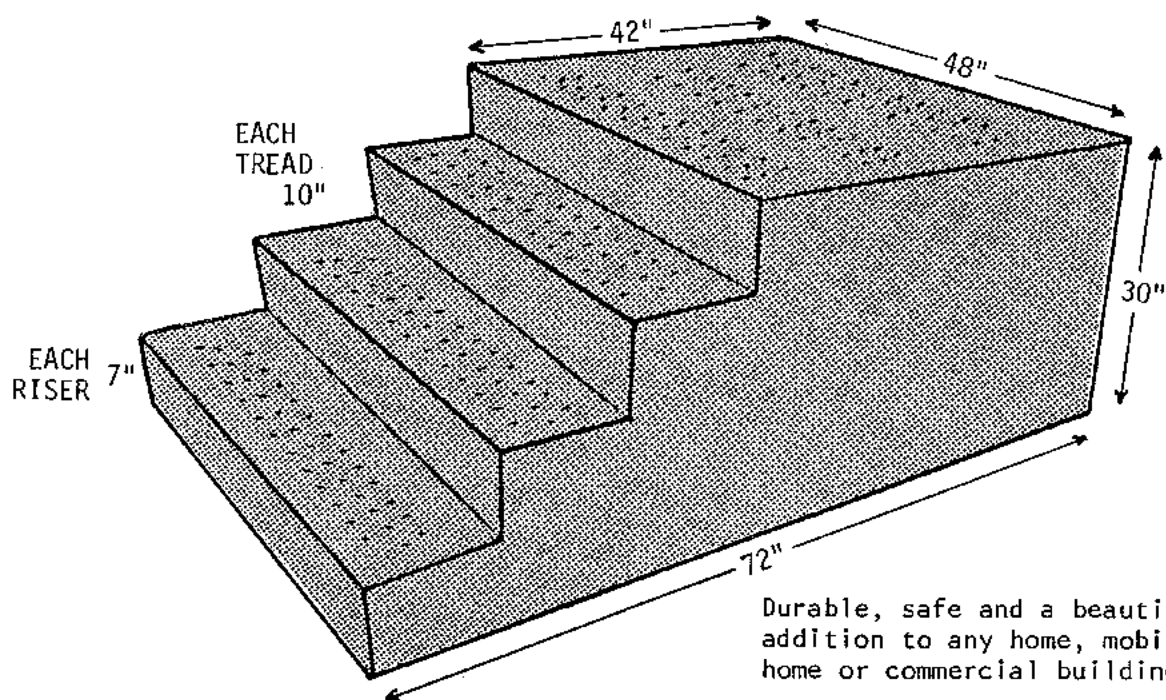
11/97

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Precast Concrete

Steps

FOUR RISER STEP WITH PLATFORM



Durable, safe and a beautiful addition to any home, mobile home or commercial building.

AFFORDABLE, EASY TO INSTALL

UNIT SETS RIGHT INTO PLACE

- High quality casting: Smooth, uniform finish, and precise dimensions.
- Maximum versatility: Can be used for both permanent or temporary locations.
- Easy handling and placement:
- Durability and strength: Steel reinforced concrete.
- Weight: 2300lbs.

Actual dimensions of concrete products may vary slightly.

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concrete products, inc.

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Precast Concrete

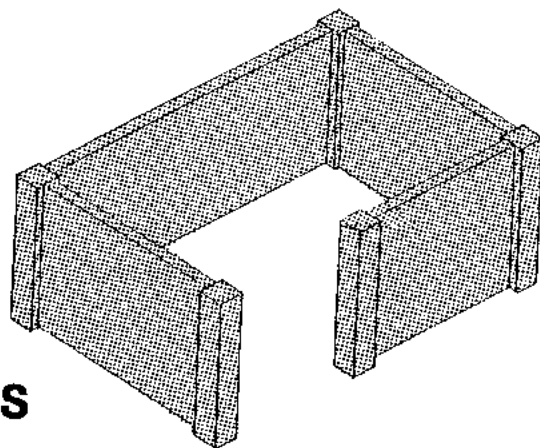
TRASH ENCLOSURE**Hide Those Trash Receptacles**

Easy To Install, Durable,

Long Lasting, Won't Rust Or Corrode

Maintenance Free

Keep your trash
Where it belongs.
Don't let the wind carry
it away, use a trash
enclosure by:
Vaughn Concrete Products



Precast Concrete Fence can be used as
a protector for your trash.
Our trash enclosure will enhance any landscape.

Call to place your order!

Available in 6 or 8 foot heights.

Available in Various Finishes, stucco, exposed aggregate,
moss rock, or colored concrete. Can be painted.

Available with or without a gate.

**Keep your trash out of sight in a
trash enclosure by Vaughn Concrete Products.**

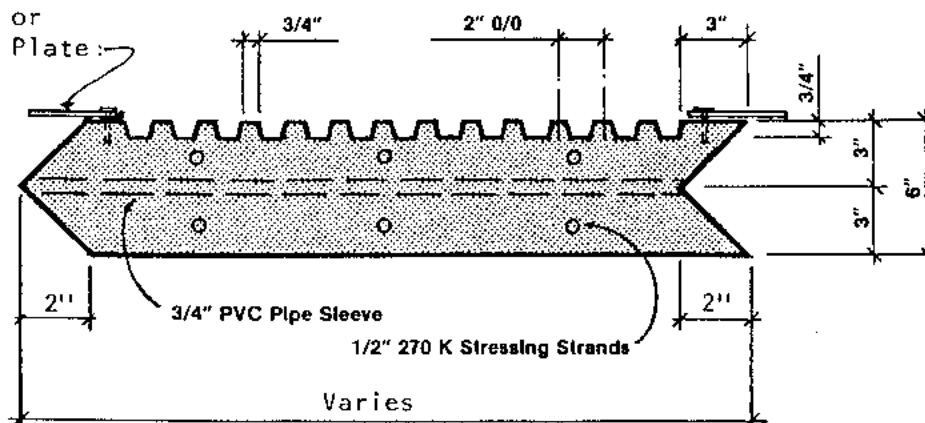
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concrete products, inc.**

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Precast Concrete Boat Ramp Panels

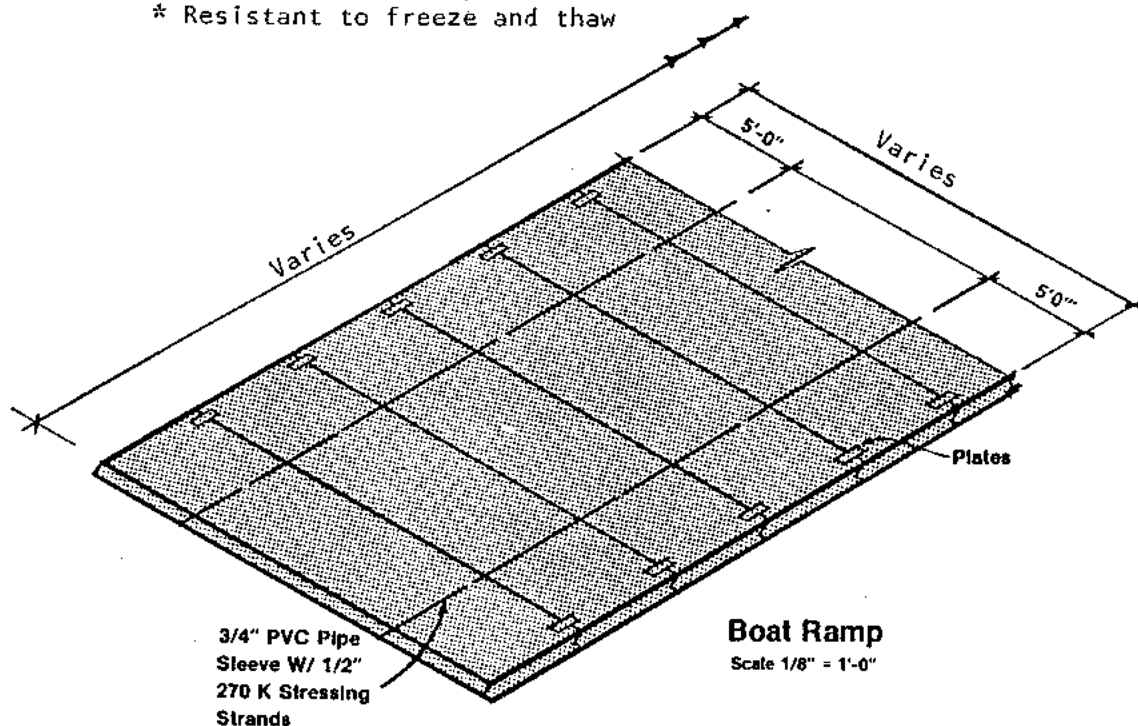
Optional:
Welded or
Bolted Plate:



End View

Scale 1-1/2" = 1'-0"

- * High Strength Quality Casting
- * Corrugated non-slip surface or Rake Finish
- * Resistant to freeze and thaw



Boat Ramp

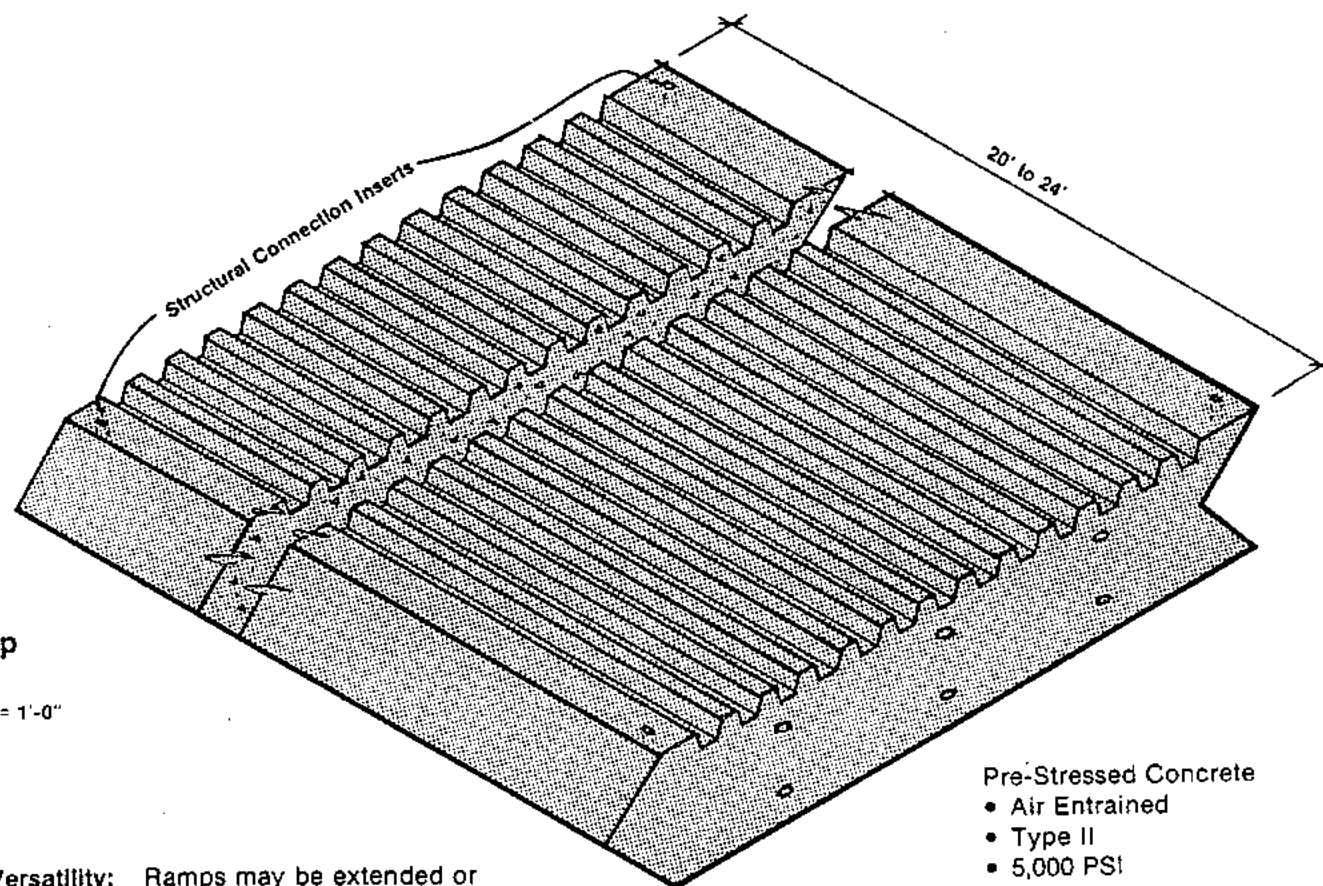
Scale 1/8" = 1'-0"

Weight: 72 lbs. Per Sq. Ft.

Actual dimensions of concrete products may vary slightly.

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Boat Ramp Panel

Scale 1 1/2" = 1'-0"

Maximum Versatility: Ramps may be extended or enlarged by adding panels, or panels removed and relocated.

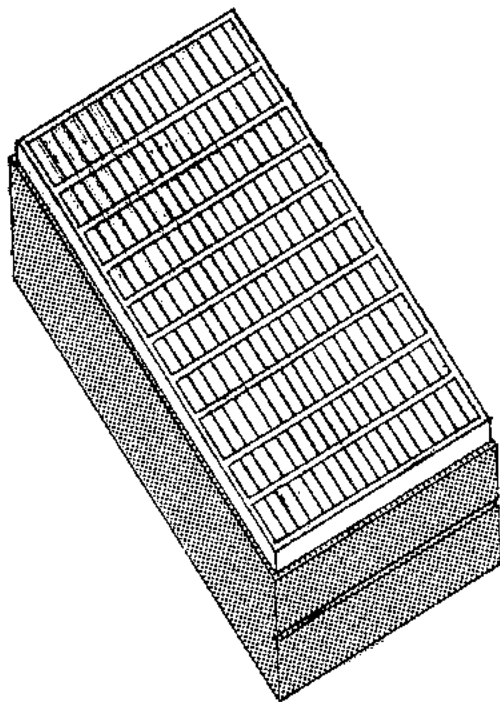
Rapid Construction: Prestressed panels can be set directly in water, no lake drainage necessary.

Pre-Stressed Concrete

- Air Entrained
- Type II
- 5,000 PSI

vaughn
concrete products, inc.



FLOOR DRAIN

Vaughn Concrete Products' Industrial Floor Drain, a practical inexpensive way to contain oil, water, sand, dirt and grease in your plant, shop, or other working areas

Industrial Floor Drain features a NON-SKID grate for safe and efficient company use

The INDUSTRIAL FLOOR DRAIN holds sand, dirt and grease at bottom of tank allowing water to drain out and you to clean the drain box. This will also help keep your sand trap from filling as fast.

Drain Box Measurements

2'8" wide

8'1/2" long

2'0" high

weight 2400 lbs.

Grate Measurements

2'4 1/4" wide

7'9 1/2" long

4" high

Actual dimensions of concrete products may vary slightly.

- ✓ Sold as a unit or separately
- ✓ May order one or more to make desired length
- ✓ Drainage hole cut in at time of installation at your desired specifications

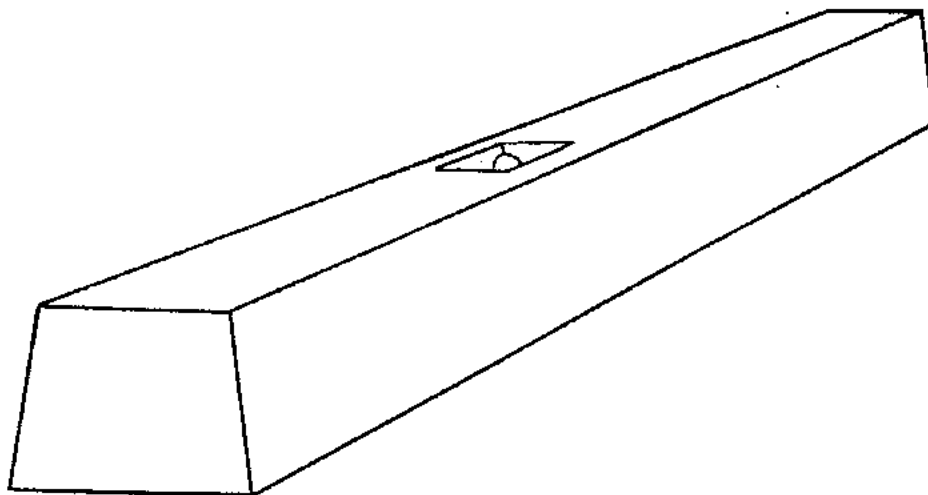
vaughn
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Concrete - 4000 P.S.I. (Minimum)
Reinforced with Wire Mesh

UPDATED 11/97

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Precast Concrete

Mini Block**USES:**

Truck Parking
Traffic Barrier
Footing Block
Borders

DIMENSIONS:

14" wide at base
12" wide at top
74" length
12" tall
Approximately 1000 lbs.

ADVANTAGES:

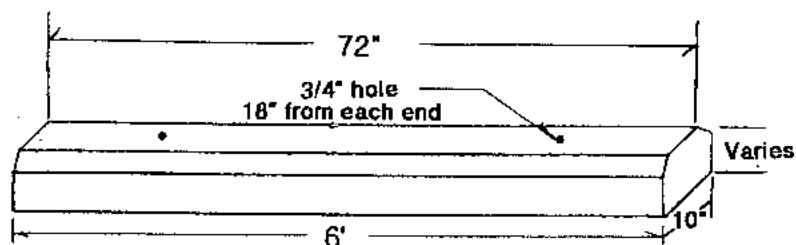
Sturdier Than A Standard Parking Block
Taller, More Visible

Actual size of concrete products may vary slightly

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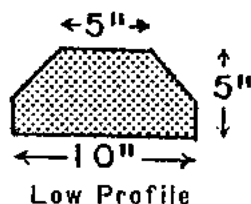
Precast Concrete

PARKING BLOCK

Reinforced with two 3/8" rebar
full length of block

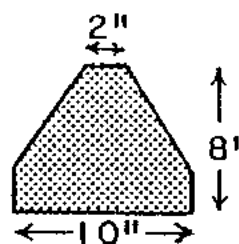
Can use 5/8" pins
30" in length for
anchoring parking block

End view of the
types available



Low Profile

Approx. Weight: 260 lbs.



Commercial

Approx. Weight: 320 lbs.

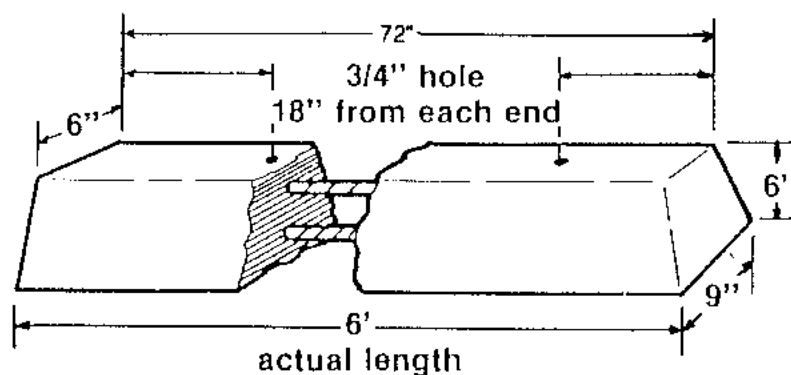
May also use Vaughn mini block

Actual dimensions of concrete products may vary slightly.

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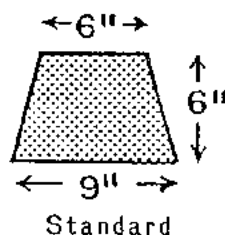
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Precast Concrete

PARKING BLOCK

two 3/8" rebar
full length of block.

WEIGHT: 250 lbs. (approx.)



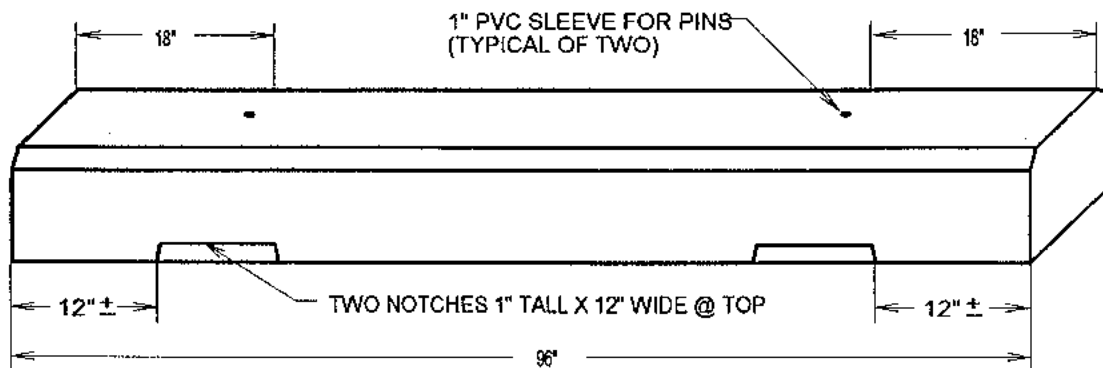
Actual dimensions of concrete products may vary slightly.

Vaughn
concrete products, inc.

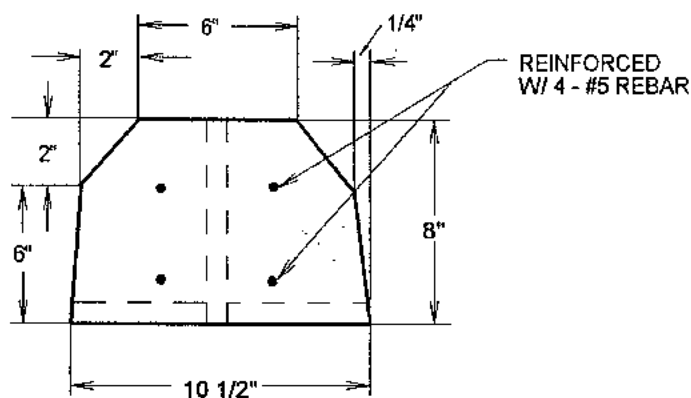
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PRECAST CONCRETE HEAVY DUTY PARKING BLOCK

FRONT VIEW



END VIEW



FLAT ENDS ALLOW UNITS TO BE SET
TOGETHER END TO END TO MAKE CURB

CONCRETE - 4,000 P.S.I. (MINIMUM)
REINFORCING GRADE 60 (MINIMUM)

APPROXIMATE WEIGHT 600 LBS EACH

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY
DRAWING IS NOT TO SCALE

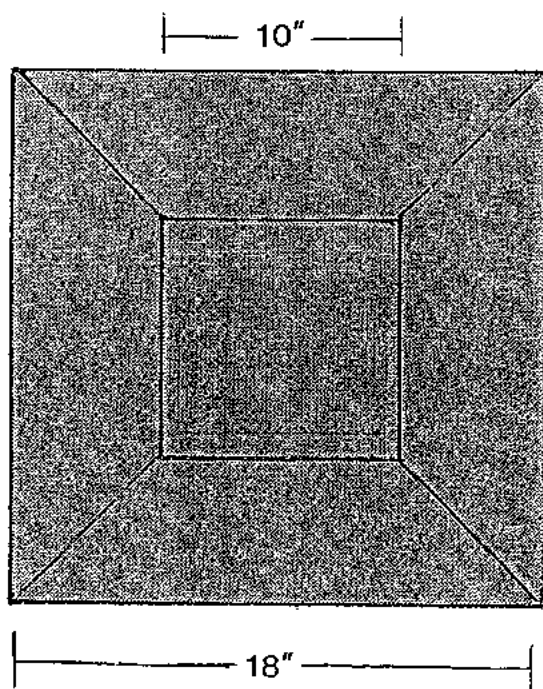
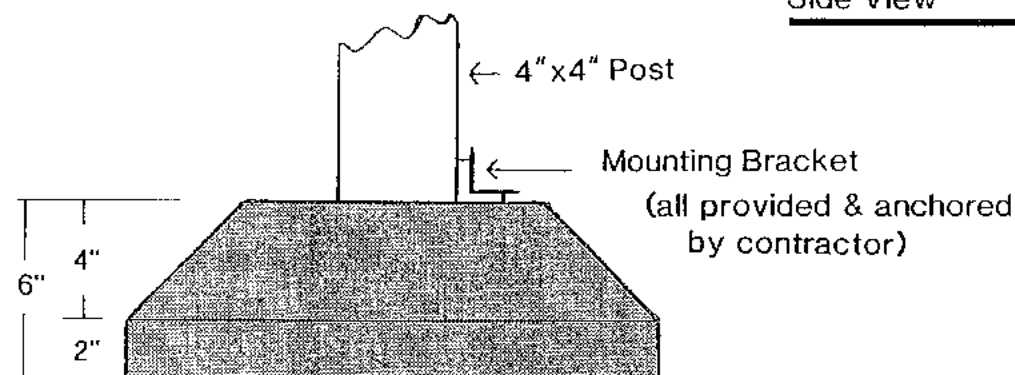
vaughn
concrete products, inc.

11/97

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POST FOUNDATION

TYPICAL USE



Top View

w/o post

Weight: 120 lbs.

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concrete products, inc.

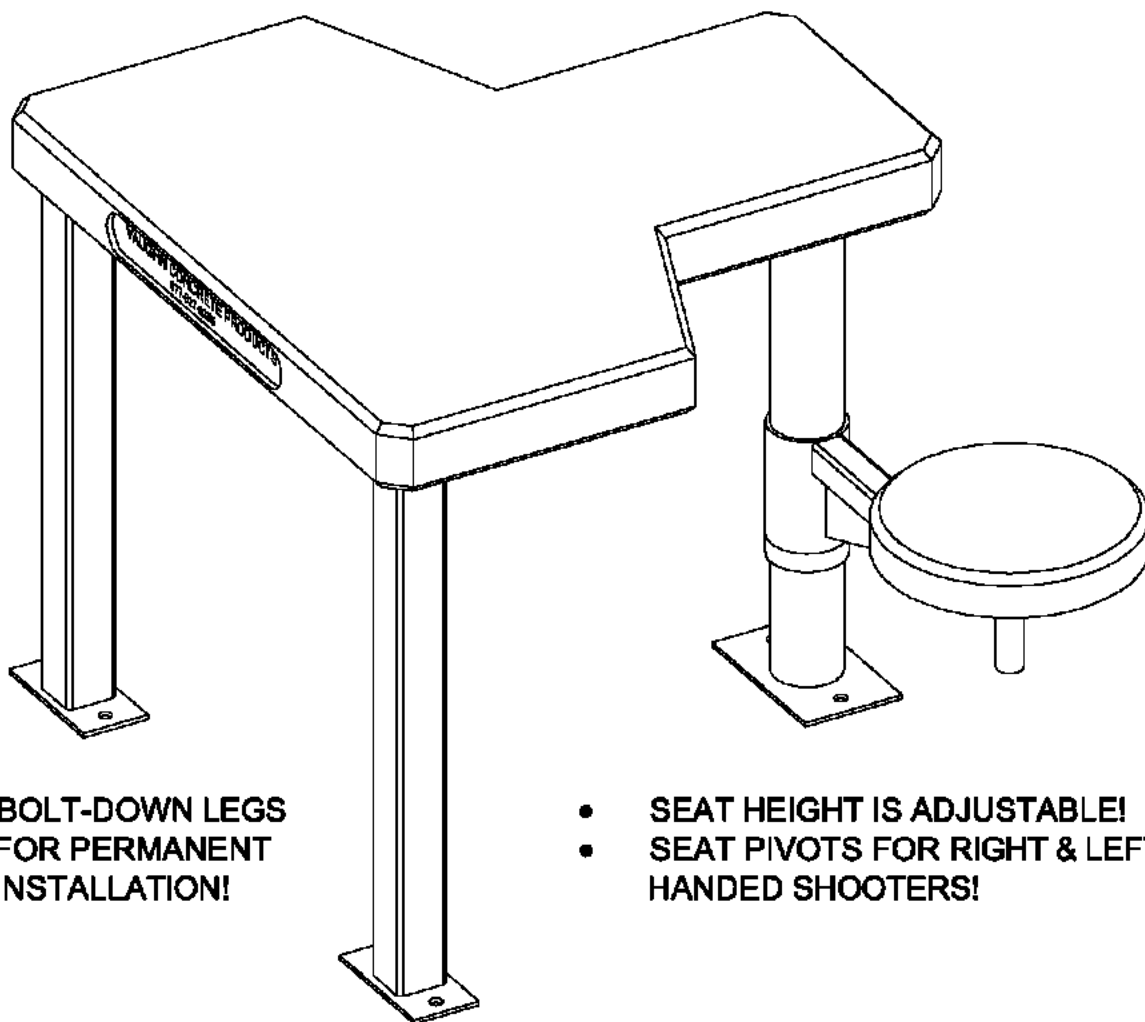
UPDATED 11/96

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PRECAST CONCRETE

SHOOTING BENCH

- DURABLE PRECAST CONCRETE TOP & SEAT!
- STEEL MOUNTING PLATES, LEGS, SEAT ARM & SEAT POST!
- SHOOTING BENCH CAN BE RELOCATED!



- BOLT-DOWN LEGS FOR PERMANENT INSTALLATION!
- SEAT HEIGHT IS ADJUSTABLE!
- SEAT PIVOTS FOR RIGHT & LEFT HANDED SHOOTERS!
- PRECAST CONCRETE TOP & SEAT SUPPLIED WITH A STANDARD GRAY FORM FINISH
- DURABLE PRECAST TOP IS APPROXIMATELY 42" WIDE X 42" LONG X 4" THICK
- OVERALL HEIGHT OF SHOOTING BENCH IS APPROXIMATELY 36"
- ENTIRE SHOOTING BENCH ASSEMBLY WEIGHS APPROXIMATELY 580 LBS.

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SHOOTING BENCH.DWG
DATE CREATED: 12/09

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www.vaughnconcreteproducts.com

Precast Concrete

STORAGE SHED

10'-0" WIDE X 12'-0" LONG X 8'-7" HIGH INSIDE DIMENSIONS

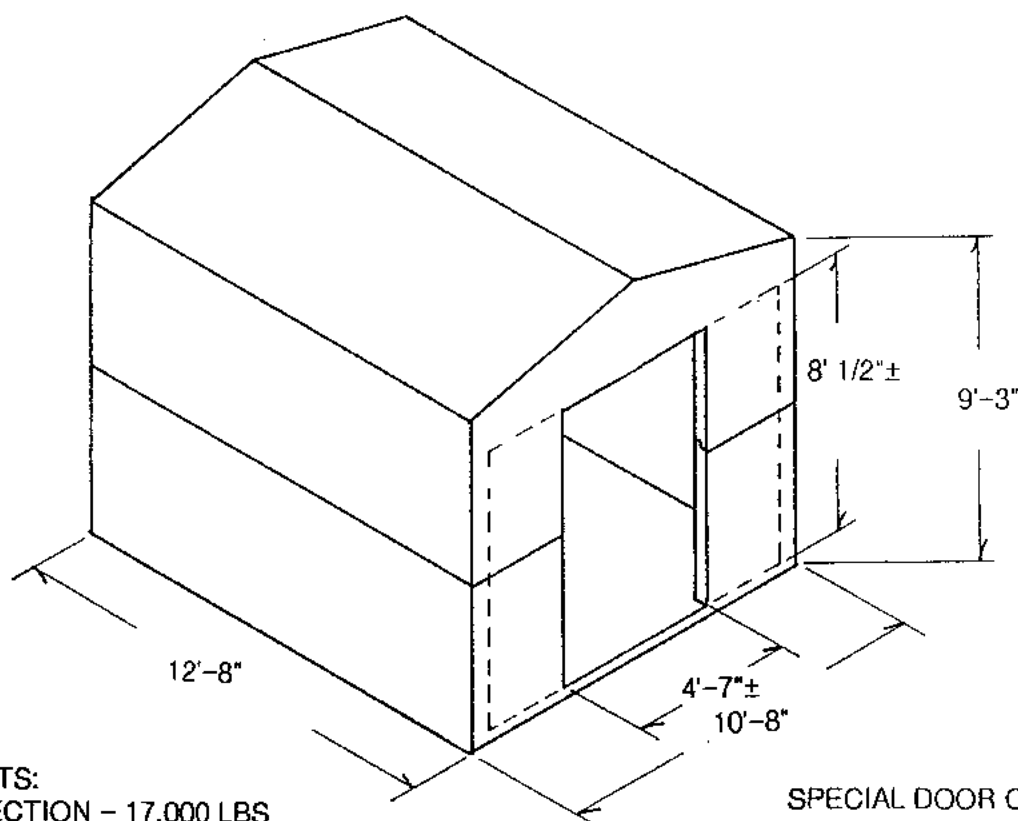
FEATURES

SATISFIES ACI BUILDING CODES

DURABLE

CAN BE MOVED

WEATHER RESISTANT

**WEIGHTS:**

TOP SECTION - 17,000 LBS

BOTTOM SECTION - 15,200 LBS

SPECIAL DOOR OPENINGS
AVAILABLE

REINFORCED CONCRETE 4000 PSI MINIMUM

Actual dimensions of concrete products may vary slightly


**vaughn
concrete products, inc.**

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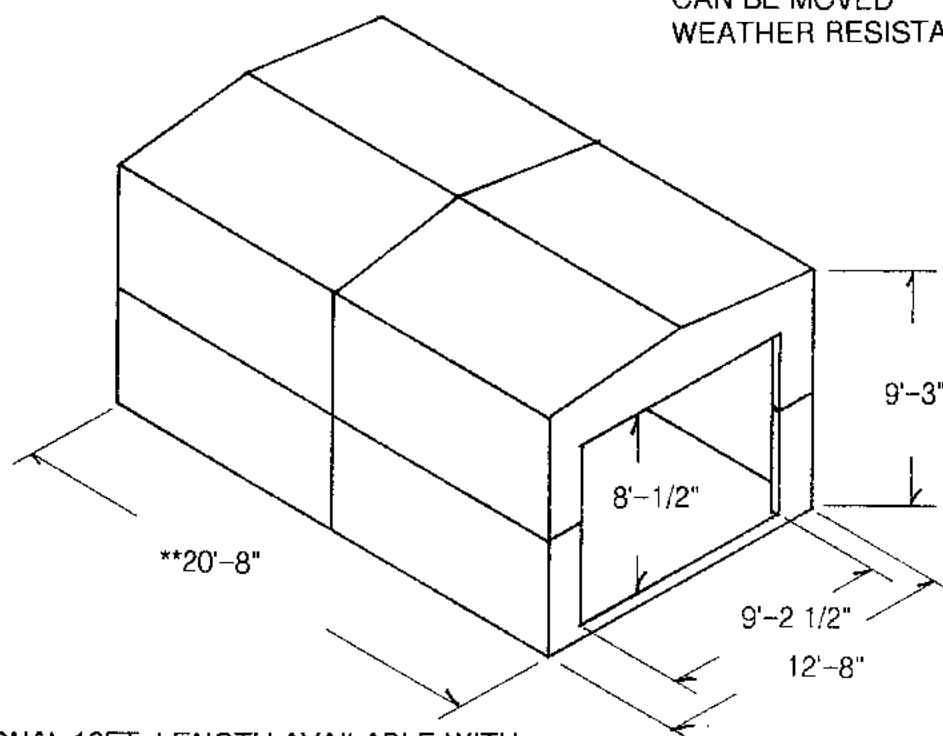
STORAGE SHED

12'-0" WIDE X 20'-0" LONG X 8'-7" HIGH INSIDE DIMENSIONS

WELD PLATES PROVIDED FOR CONNECTING SECTIONS
JOINTS BETWEEN SECTIONS TO BE GROUTED
THEN WATERPROOFED

FEATURES

SATISFIES ACI BUILDING CODES
DURABLE
CAN BE MOVED
WEATHER RESISTANT



**ADDITIONAL 10FT. LENGTH AVAILABLE WITH
INTERMEDIATE MID SECTION INSTALLED

APPROXIMATE WEIGHTS:

TOP FRONT SECTION - 13,100 LBS

TOP BACK SECTION - 14,800 LBS

BOTTOM FRONT SECTION - 11,300 LBS

BOTTOM BACK SECTION - 13,200 LBS

**TOP MID SECTION - 11,900 LBS

**BOTTOM MID SECTION - 10,400 LBS

REINFORCED CONCRETE 4000 PSI MINIMUM

Actual dimensions of concrete products may vary slightly

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concrete products, inc.

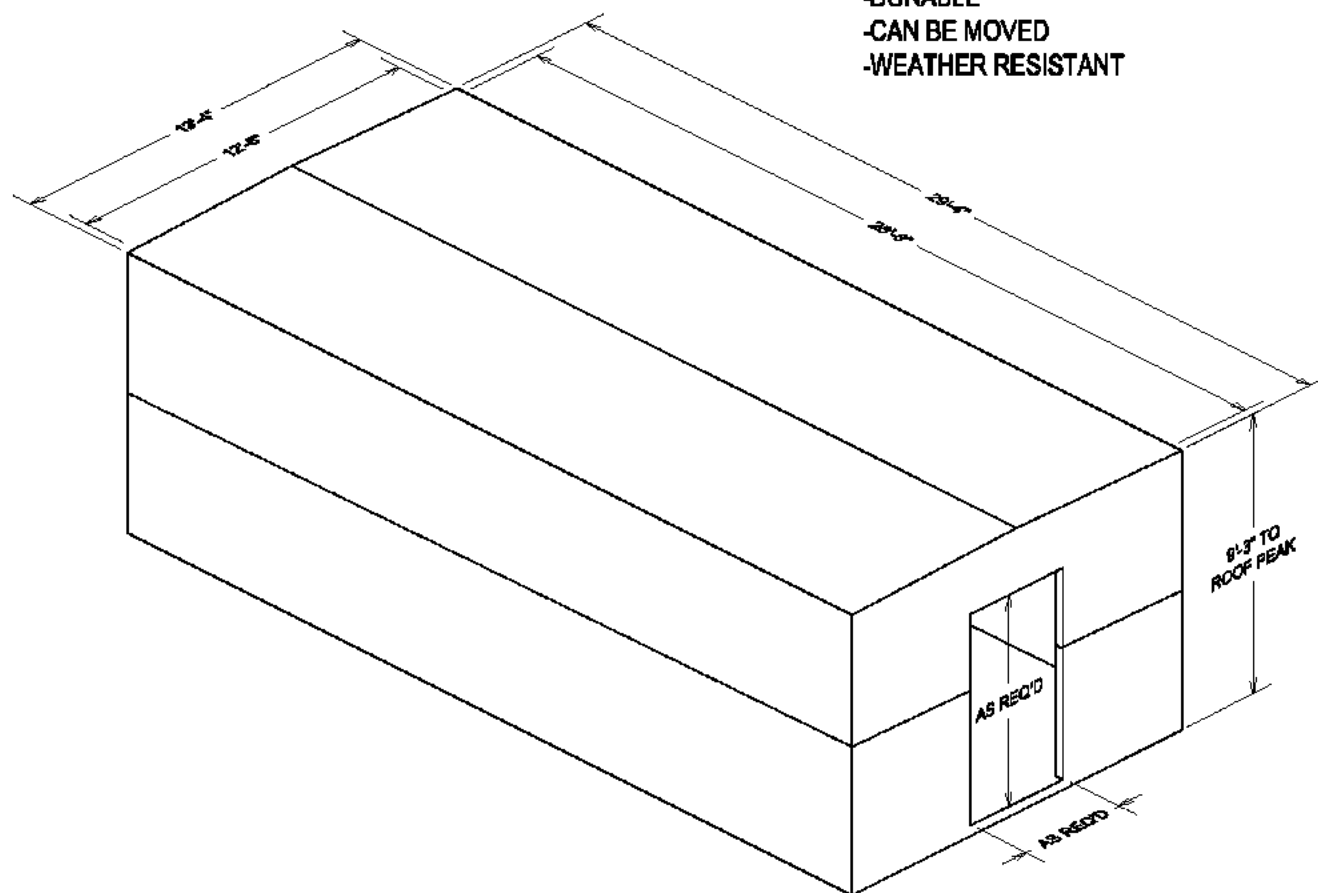
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PRECAST CONCRETE STORAGE SHED

12'-8" WIDE X 28'-8" LONG X 8'-6" HIGH INSIDE DIMENSIONS

FEATURES:

- SATISFIES ACI BUILDING CODES
- DURABLE
- CAN BE MOVED
- WEATHER RESISTANT



NOTES:

- ALL WALLS TO BE 4" THICK
- CONCRETE: 5000 P.S.I. MINIMUM
- REINFORCING: GRADE 60 MINIMUM
- EACH HALF WEIGHS APPROXIMATELY 43,000 LBS.

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

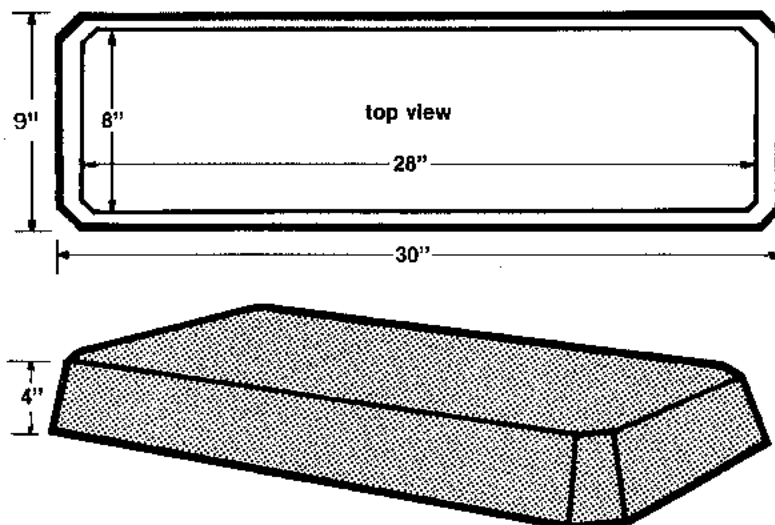
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concrete products, inc.

12-8X28-8 STORAGE SHED.DWG
DATE CREATED: 11/18/02
DATE MODIFIED: 12/2009

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www.vaughnconcreteproducts.com

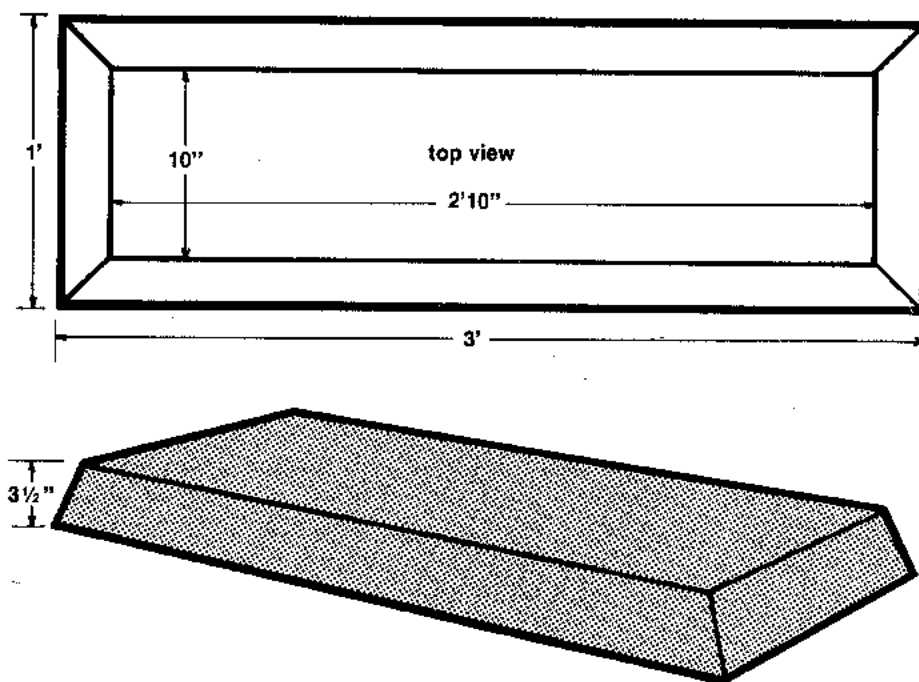
Small Propane Pad

Weight: 82 lbs.



Large Propane Pad

Weight: 130 lbs.



Actual dimensions of concrete products may vary slightly.

Vaughn
concrete products, inc.

UPDATED 11/97

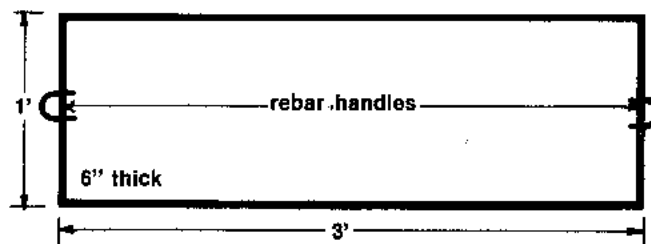
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Precast Concrete Pads

continued

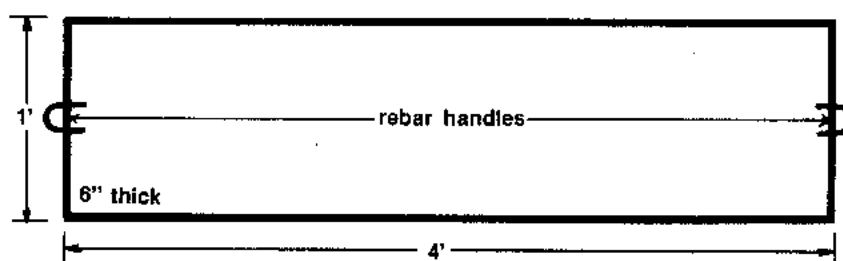
Small Hydro Pad

Weight: 225 lbs.



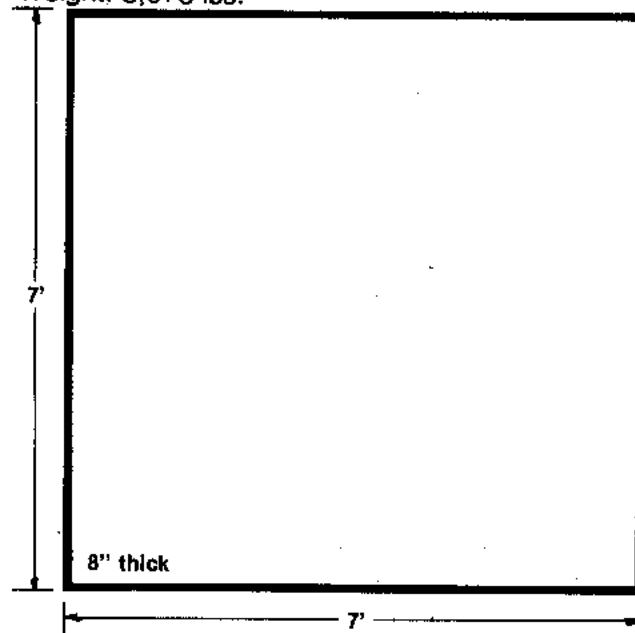
Large Hydro Pad

Weight: 300 lbs.



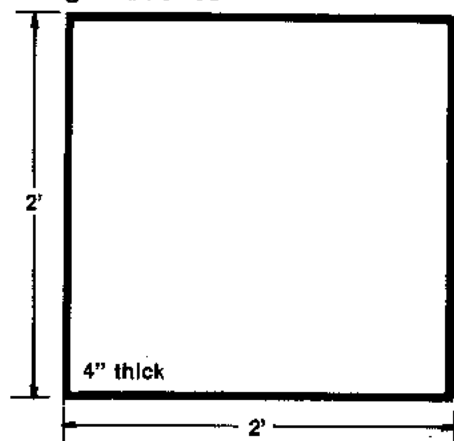
Treater Pad

Weight: 3,675 lbs.



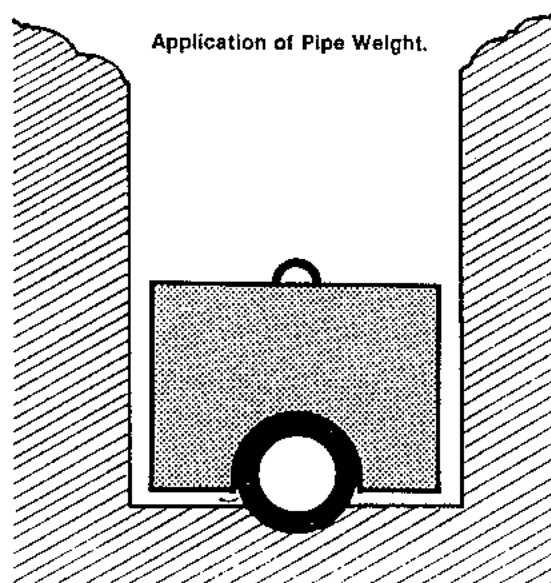
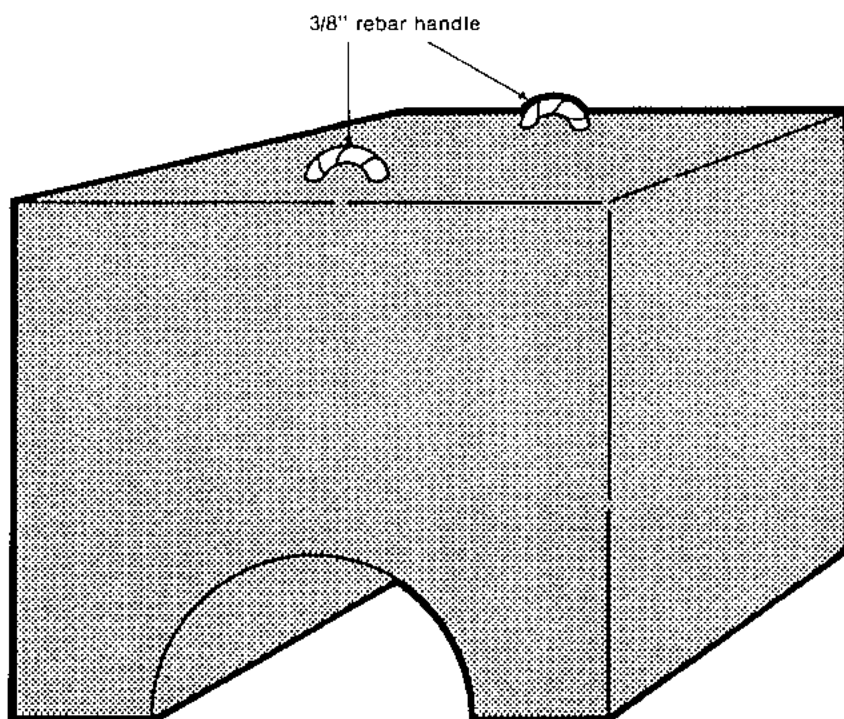
Trailer Pad

Weight: 300 lbs



Contact us for price on any size pad not listed.

Precast Concrete

PIPE WEIGHTS

Weight for 6" pipe... Approx. 400 lbs.
 Weight for 8" pipe... Approx. 700 lbs.
 Weight for 12" pipe... Approx. 1500 lbs.

Bolt-on type weights also available.

Weights made to your specifications.

Actual dimensions of concrete products may vary slightly

Vaughn
concrete products, inc.

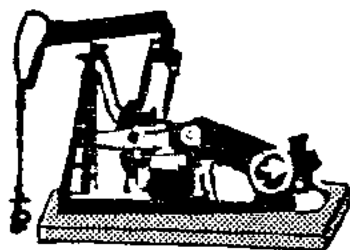
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Precast Concrete

Pumping Unit Base

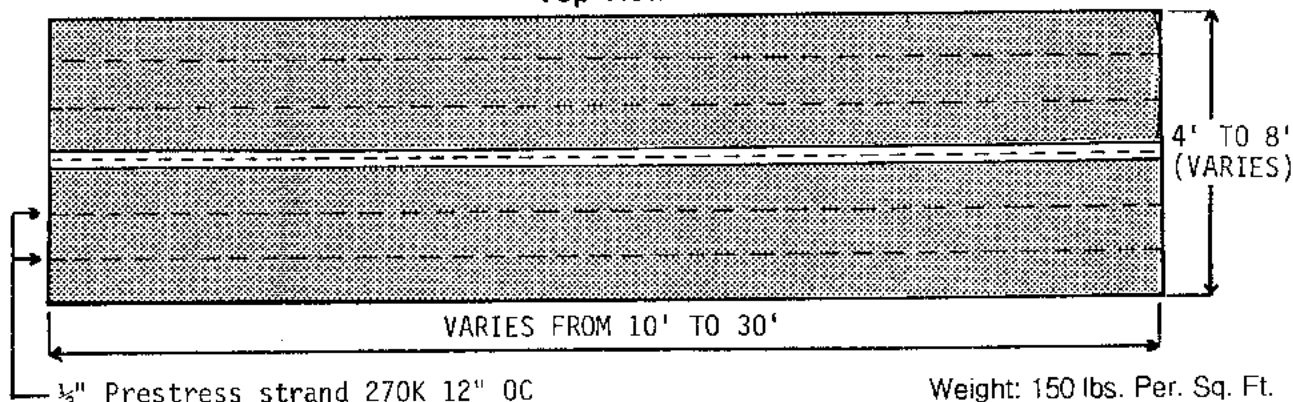
Pre-Stressed

High Strength Quality Casting

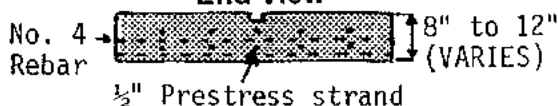


DESIGNED FOR EASY
HANDLING AND PLACEMENT

Top View

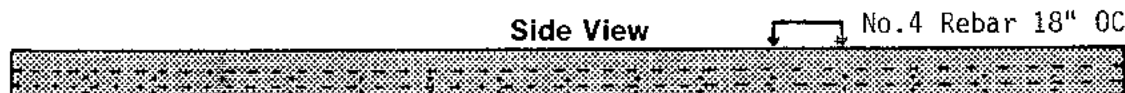


End View



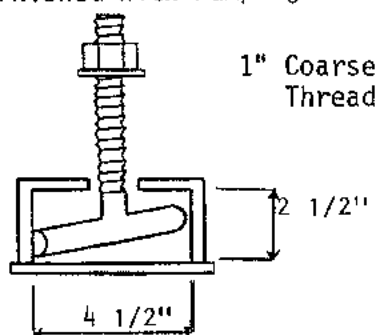
Standard size in stock 6'X 24'X 12"
or add our 6'X 6'X 12" extension for
Larger Bases. Other sizes made and
kept in stock when needed.
LET US MAKE THE BASES YOU NEED!

Side View



Bolt Detail

Hold down Plate Unit w/bolt can
be furnished with Pumping Base



Ready for PICK-UP from our yard or
we will DELIVER to the site desired.
These bases are engineered to be
transferred from location to location
YOU CAN RETAIN YOUR ORIGINAL INVESTMENT!

Several Major Oil Companies have been
using our bases with much success!

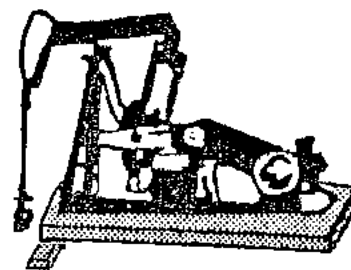
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Precast Concrete

Pumping Unit Base NOSE CONE

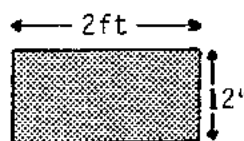
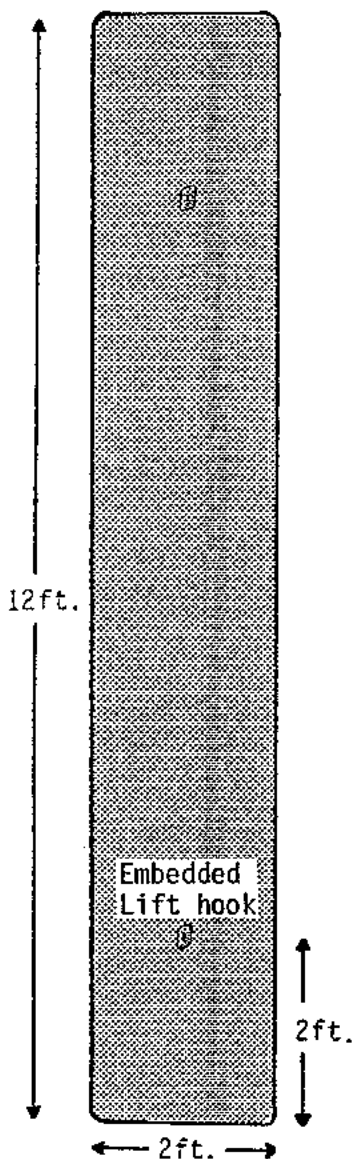
STRONG, DURABLE, LONG LASTING,
AFFORDABLE, EASY TO INSTALL



Fast

*Handy,
Easy to use*

Keeps the front of your
pumping unit base from sinking.
Ideal for unstable soil conditions!



END VIEW

Save time!

Pick up the precast units from our
yard or have them delivered to site.

**... reliable
proven products**

Cast with high strength 7 sack,
Type II Cement, 5000 PSI steel
reinforced, air entrained
concrete.

Weight: 1,800 lbs.

Actual dimensions of concrete products may vary slightly.

**Vaughn
concrete products, inc.**

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GREASE INTERCEPTOR DESIGN

Page 1 Of 3

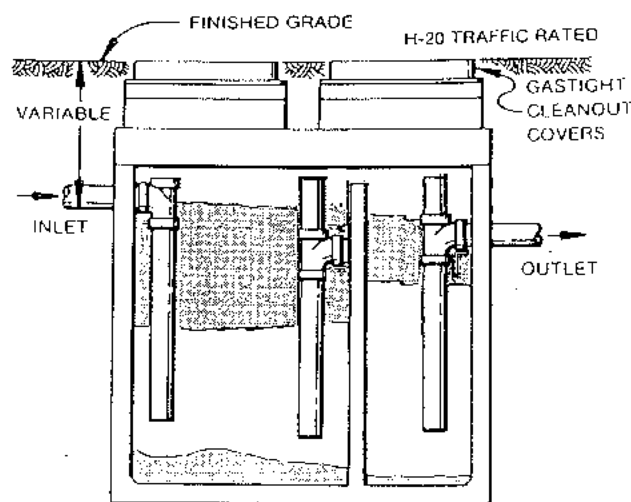
Grease interceptors are used to remove excessive amounts of grease that may interfere with subsequent treatment. In almost every commercial/institutional application grease can clog sewer lines, hinder treatment at wastewater treatment plants, clog inlet and outlet structures in septic tanks and leach fields resulting in restricted flows and poor septic tank and septic system performance. The purpose of a grease interceptor is simply to remove grease from the wastewater stream prior to treatment.

Grease interceptors are small flotation chambers where grease floats to the water surface and is retained while the clearer water underneath is discharged. There are no moving mechanical parts.

The grease interceptors discussed here are the large, outdoor-type units, and should not be confused with the small grease traps found on some kitchen drains.

Grease interceptors are rarely used for individual homes. Their main application is in treating kitchen wastewaters from motels, cafeterias, restaurants, hospitals, schools, and other institutions with large volumes of kitchen wastewaters. According to Uniform Plumbing Code all facilities with a commercial kitchen with more than 3 fixtures should have a grease interceptor.

Influents to grease interceptors usually contain high organic loads, including grease, oils, fats, and dissolved food particles, as well as detergents and suspended solids. Wastewaters from garbage grinders should not be discharged to grease interceptors, as high solids loadings can upset grease interceptor performance, and greatly increase both solids accumulation and the need for frequent pumpout.



TYPICAL CROSS-SECTION — GREASE INTERCEPTOR

See page 2 and 3 of grease interceptor design for sizing criteria

GREASE INTERCEPTOR DESIGN

Page 2 Of 3

GREASE INTERCEPTOR SIZING CRITERIA - EPA DESIGN

The recommended method for sizing a grease interceptor, as published in the EPA Design Manual, "Onsite Wastewater Treatment and Disposal Systems", is as follows:

1. RESTAURANTS:

$$(D) \times (GL) \times (ST) \times (HR/2) \times (LF) = \text{Size of Grease Interceptor, gallons}$$

where:

- D = Number of seats in dining area
- GL = Gallons of wastewater per meal, normally 5 gallons
- ST = Storage capacity factor - minimum of 1.7, onsite disposal, 2.5
- HR = Number of hours open
- LF = Loading factor - 1.25 interstate freeways
1.0 other freeways
1.0 recreational areas
0.8 main highways
0.5 other highways

Thus, for a restaurant with 75-seat dining area, an 8 hour per day operation, a typical discharge of 5 gallons per meal, a storage capacity factor of 1.7, and a loading factor of 0.8, the size of the grease interceptor is calculated as follows:

$$(75) \times (5) \times (1.7) \times (8/2) \times (0.8) = 2,040 \text{ gallons}$$

2. HOSPITALS, NURSING HOMES, OTHER TYPE COMMERCIAL KITCHENS WITH VARIED SEATING CAPACITY

$$(M) \times (GL) \times (ST) \times (2.5) \times (LF) = \text{Size of Grease Interceptor, gallons}$$

where:

- M = Meals per day
- GL = Gallons of wastewater per meal, normally 4.5
- SC = Storage capacity factor - minimum of 1.7, onsite disposal, 2.5
- LF = Loading factor - 1.25 garbage disposal and dishwashing
1.0 without garbage disposal
0.75 without dishwashing
0.5 without dishwashing and garbage disposal

A check of local ordinances and codes should always be made before the grease interceptor is purchased.

GREASE INTERCEPTOR DESIGN

Page 3 Of 3

H 4 GREASE INTERCEPTOR SIZING CRITERIA - ACCORDING TO UNIFORM PLUMBING CODE

From section H 4 Of Uniform Plumbing Code

(a) Parameters. The parameters for sizing a grease interceptor are hydraulic loading and grease storage capacity, for one or more fixtures.

(b) Sizing Formula. The size of the interceptor shall be determined by the following formula:

$$\begin{array}{ccccccc} \text{Number of meals} & & \text{Waste flow} & & \text{Retention} & & \text{Storage} & & \text{Interceptor size} \\ \text{per peak hour}^1 & \times & \text{rate}^2 & \times & \text{time}^3 & \times & \text{factor}^4 & = & \text{(liquid capacity)} \end{array}$$

1. Meals Served at Peak Hour

2. Waste Flow Rate

- a. With dishwashing machine6 gallon (22.7 L) flow
- b. Without dishwashing machine.....5 gallon (18.9 L) flow
- c. Single service kitchen.....2 gallon (7.6 L) flow
- d. Food waste disposer.....1 gallon (3.8 L) flow

3. Retention Times

Commercial kitchen waste

Dishwasher.....2.5 hours

Single service kitchen

Single Serving.....1.5 hours

4. Storage Factors

Fully equipped commercial kitchen.....8 hour operation: 1

.....16 hour operation: 2

.....24 hour operation: 3

Single Service Kitchen.....1.5

A check of local ordinances and codes should always be made before the grease interceptor is purchased.

PRECAST CONCRETE GREASE INTERCEPTOR

**1000 GALLON CAPACITY
WITH LID FOR TRAFFIC
STANDARD FOR COLORADO & WYOMING**

**IT IS THE EXCAVATOR'S OR
INSTALLER'S RESPONSIBILITY
TO REQUEST OUR
INSTALLATION GUIDELINES
PRIOR TO INSTALLING THIS
TANK**

**MONOLITHIC BODY
NO SEAMS OR JOINTS**

3" THICK FLOOR
4" THICK WALLS
8" THICK LID FOR TRAFFIC

2 COMPARTMENT TANK WITH
APPROXIMATELY 60% OF CAPACITY ON
INLET SIDE

**TANK IS PROVIDED WITH NOTCHES IN
SIDEWALLS FOR SLIP-IN DIVIDER WALL**

**WITHSTANDS UP TO 6' OF BURY, RISERS
ARE AVAILABLE FOR INLET & OUTLET**

OPTIONS:

- 24" I.D. MANHOLE RISERS
- GAS TIGHT CAST IRON RINGS & COVERS

PIPING KNOCKOUTS 19" FROM END OF
TANK TO CENTER OF KNOCKOUT TO
ALLOW FOR CONCRETE TO BE
BROKEN OUT TO ALLOW FOR SIDE
INLET OR OUTLET PIPE AT SAME
HEIGHT AS STANDARD INLET &
OUTLET. TYP. OF 4

**OUR STANDARD 24" DIAMETER CAST
IRON RINGS & COVERS, TYPE OF 2**

24" I.D. MANHOLE RISER AS REQUIRED,
TYP. INLET/OUTLET END; AVAILABLE IN
2" 3" 4" 6" 8" & 12" HEIGHTS

CONSEAL JOINT SEALANT, OR
CONTRACTOR TO GROUT

PIPING BLOCKOUTS WITH POLYLOK
PIPE SEALS CAST IN TANK FOR INLET
& OUTLET PIPING (TYPICAL)

CONTRACTOR'S 4" PIPES

**VCP SUPPLIED 4" SDR35
INLET & OUTLET TEES**

TANK WEIGHTS:

- TANK LID : 5,400 LBS.
- TANK WITH DIVIDER ONLY : 8,000 LBS.
- COMPLETE INTERCEPTOR : 13,400 LBS.

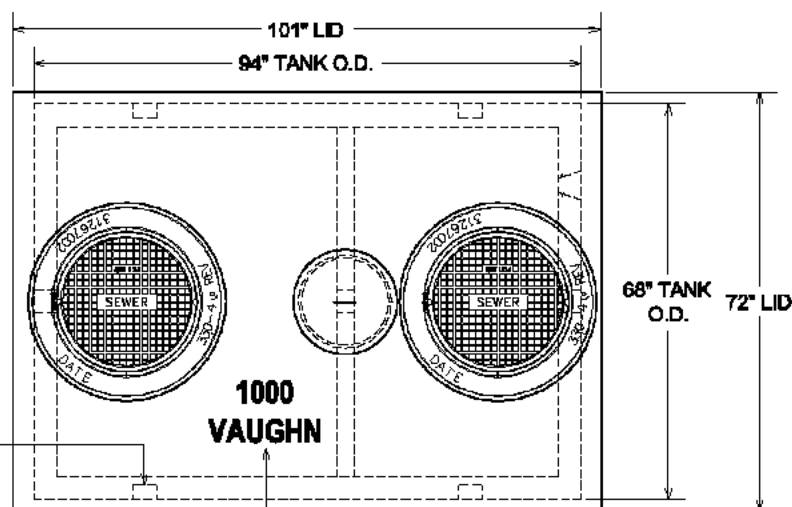
DIGGING SPECIFICATIONS:

- 54" BELOW THE INLET
- EXCAVATION: 7'-0" WIDE X 10'-0" LONG
- SEE OUR INSTALLATION GUIDELINES
PRIOR TO INSTALLING THIS TANK

CONCRETE : 4,000 P.S.I. (MINIMUM)

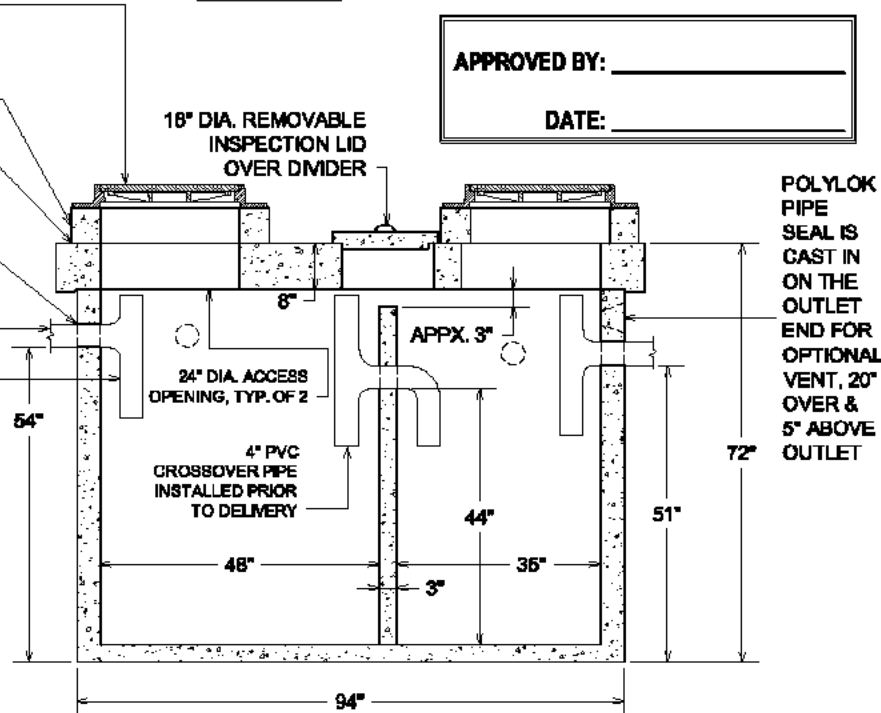
REINFORCING : REBAR & WELDED WIRE FABRIC

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY



- DURING PRODUCTION, "TANK SIZE" & "VAUGHN" ARE STAMPED IN LID, "IN" & "OUT" ARE MARKED ON TANK ENDS

PLAN VIEW



SECTION VIEW

DRAWING IS NOT TO SCALE

1000 GAL GI, TRAFFIC DANG
DATE CREATED: 11/04
UPDATED: 12/09



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GREASE INTERCEPTOR PREVENTS GREASE FROM ENTERING COMMUNITY SEWAGE COLLECTION SYSTEM & CAUSING FREQUENT LINE PLUGGING

LARGE ACCESS OPENINGS PROVIDE EASIER PUMPING & MAINTENANCE

2 COMPARTMENT TANK WITH APPROXIMATELY 60% OF CAPACITY ON INLET SIDE

WITHSTANDS UP TO 6' OF BURY, RISERS ARE AVAILABLE FOR INLET & OUTLET

OPTIONS:

- 24" I.D. MANHOLE RISERS
- ROOF OF TOP SECTION FOR TRAFFIC LOADINGS
- GAS TIGHT CAST IRON RINGS & COVERS

PIPING KNOCKOUTS 16" FROM END OF TANK TO CENTER OF KNOCKOUT TO ALLOW FOR CONCRETE TO BE BROKEN OUT TO ALLOW FOR SIDE INLET OR OUTLET PIPE AT SAME HEIGHT AS STANDARD INLET & OUTLET, TYP. OF 4

4" THICK WALLS & FLOOR, 5" THICK ROOF
*NOTE: WALLS & DIVIDER DO TAPER, THICKNESSES DO DECREASE TO ALLOW FOR FORM REMOVAL; THE AVG. WALL & DIVIDER THICKNESSES ARE LISTED

OUR STANDARD 24" DIAMETER CAST IRON RINGS & COVERS, TYP. OF 2
24" I.D. MANHOLE RISER AS REQUIRED, TYP. INLET/OUTLET END; AVAILABLE IN 2", 3", 4", 6", 8" OR 12" HEIGHTS

CONSEAL JOINT SEALANT, OR CONTRACTOR TO GROUT

PIPING BLOCKOUTS WITH POLYLOK PIPE SEALS CAST IN TANK FOR INLET & OUTLET PIPING (TYPICAL)

CONTRACTOR'S 4" PIPES

VCP SUPPLIED 4" SDR35 INLET & OUTLET TEES

CONSEAL JOINT SEALANT

TANK WEIGHTS:

- COMPLETE INTERCEPTOR : 12,700 LBS.

DIGGING SPECIFICATIONS:

- 54" BELOW THE INLET
- EXCAVATION TO BE 6 1/2' WIDE X 12' LONG
- SEE OUR INSTALLATION GUIDELINES PRIOR TO INSTALLING THIS TANK

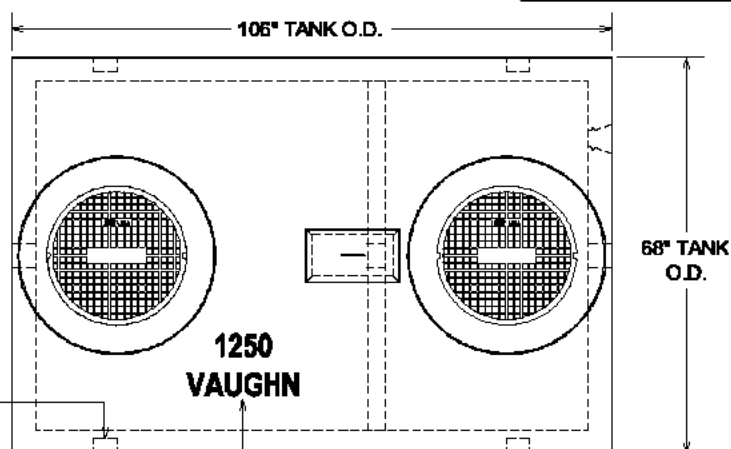
CONCRETE : 4,000 P.S.I. (MINIMUM)
REINFORCING : REBAR & WELDED WIRE FABRIC

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

PRECAST CONCRETE GREASE INTERCEPTOR

1250 GALLON CAPACITY FOR NON-TRAFFIC APPLICATIONS STANDARD FOR COLORADO & WYOMING

IT IS THE EXCAVATOR'S OR INSTALLER'S RESPONSIBILITY TO REQUEST OUR INSTALLATION GUIDELINES PRIOR TO INSTALLING THIS TANK

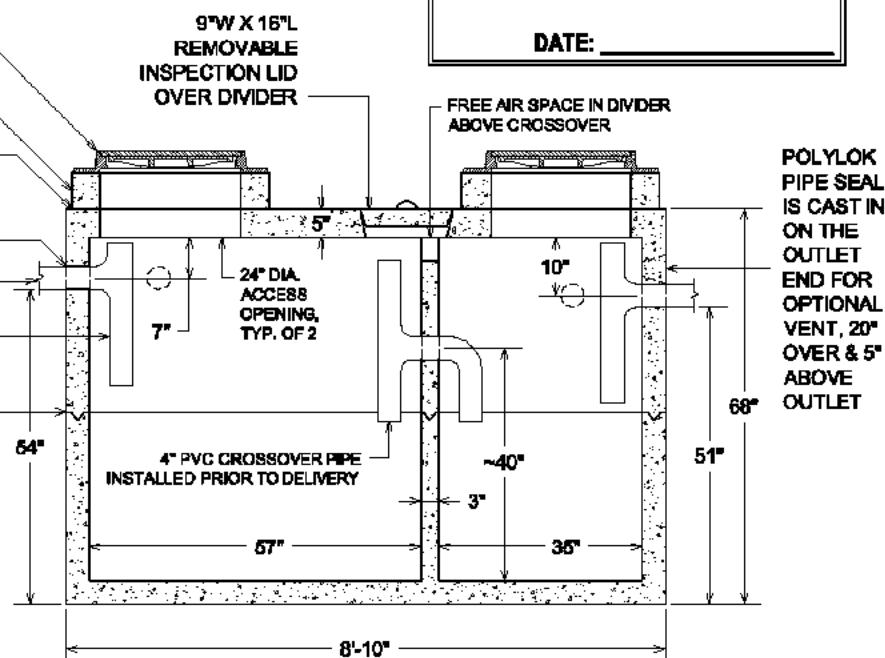


PLAN VIEW

DURING PRODUCTION, "TANK SIZE" & "VAUGHN" ARE STAMPED IN LID, "IN" & "OUT" ARE MARKED ON TANK ENDS

APPROVED BY: _____

DATE: _____



SECTION VIEW

DRAWING IS NOT TO SCALE

vaughn concrete products, inc.

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www.vaughnconcreteproducts.com

1250 GAL. GI. NON-TRAFFIC/DWG
DATE CREATED: 11/04
UPDATED: 12/09

GREASE INTERCEPTOR PREVENTS GREASE FROM ENTERING COMMUNITY SEWAGE COLLECTION SYSTEM & CAUSING FREQUENT LINE PLUGGING

LARGE ACCESS OPENINGS PROVIDE EASIER PUMPING & MAINTENANCE

2 COMPARTMENT TANK WITH APPROXIMATELY 60% OF CAPACITY ON INLET SIDE

WITHSTANDS UP TO 6' OF BURY, RISERS ARE AVAILABLE FOR INLET & OUTLET

OPTIONS:

- 24" I.D. MANHOLE RISERS
- GAS TIGHT CAST IRON RINGS & COVERS

PIPING KNOCKOUTS 16" FROM END OF TANK TO CENTER OF KNOCKOUT TO ALLOW FOR CONCRETE TO BE BROKEN OUT TO ALLOW FOR SIDE INLET OR OUTLET PIPE AT SAME HEIGHT AS STANDARD INLET & OUTLET, TYP. OF 4

4" THICK WALLS & FLOOR, 9" THICK ROOF
*NOTE: WALLS & DIVIDER DO TAPER, THICKNESSES DO DECREASE TO ALLOW FOR FORM REMOVAL; THE AVG. WALL & DIVIDER THICKNESSES ARE LISTED

OUR STANDARD 24" DIAMETER CAST IRON RINGS & COVERS, TYP. OF 2
24" I.D. MANHOLE RISER AS REQUIRED, TYP. INLET/OUTLET END; AVAILABLE IN 2", 3", 4", 6", 8" OR 12" HEIGHTS

CONSEAL JOINT SEALANT, OR CONTRACTOR TO GROUT

PIPING BLOCKOUTS WITH POLYLOK PIPE SEALS CAST IN TANK FOR INLET & OUTLET PIPING (TYPICAL)

CONTRACTOR'S 4" PIPES

VCP SUPPLIED 4" SDR35 INLET & OUTLET TEES

CONSEAL JOINT SEALANT

TANK WEIGHTS:

- COMPLETE INTERCEPTOR : 14,900 LBS.

DIGGING SPECIFICATIONS:

- 54" BELOW THE INLET
- EXCAVATION TO BE 6 1/2' WIDE X 12' LONG
- SEE OUR INSTALLATION GUIDELINES PRIOR TO INSTALLING THIS TANK

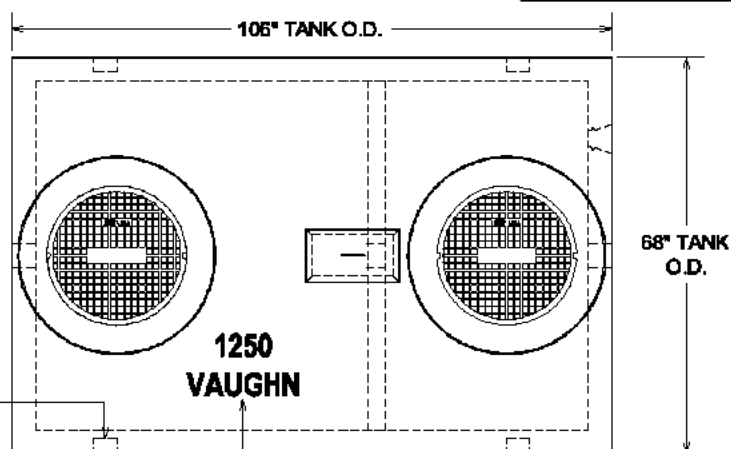
CONCRETE : 4,000 P.S.I. (MINIMUM)
REINFORCING : REBAR & WELDED WIRE FABRIC

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

PRECAST CONCRETE GREASE INTERCEPTOR

1250 GALLON CAPACITY WITH TOP FOR TRAFFIC STANDARD FOR COLORADO & WYOMING

IT IS THE EXCAVATOR'S OR INSTALLER'S RESPONSIBILITY TO REQUEST OUR INSTALLATION GUIDELINES PRIOR TO INSTALLING THIS TANK

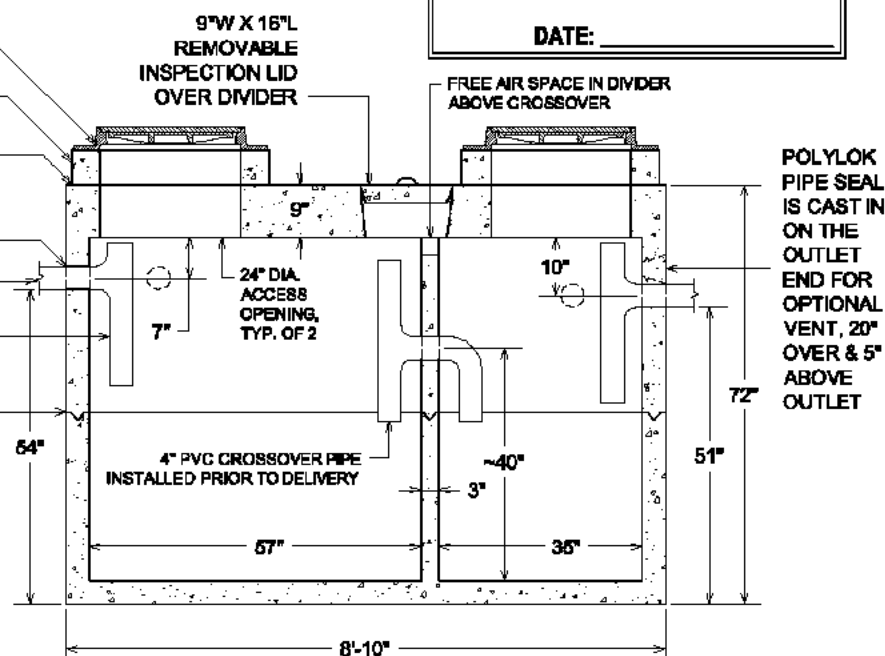


PLAN VIEW

DURING PRODUCTION, "TANK SIZE" & "VAUGHN" ARE STAMPED IN LID, "IN" & "OUT" ARE MARKED ON TANK ENDS

APPROVED BY: _____

DATE: _____



SECTION VIEW

DRAWING IS NOT TO SCALE

vaughn concrete products, inc.

12650 Tucson Street • Henderson, Colorado 80640 • 303-659-3747, Fax 303-659-1333
2671 South Greeley Hwy • Cheyenne, Wyoming 82007 • 307-634-0695, Fax 307-634-0694

www.vaughnconcreteproducts.com

1250 GAL. GI. TRAFFIC.DWG
DATE CREATED: 11/ 04
UPDATED: 12/ 09

PRECAST CONCRETE GREASE INTERCEPTOR

1500 GALLON CAPACITY FOR NON-TRAFFIC APPLICATIONS STANDARD FOR COLORADO & WYOMING

GREASE INTERCEPTOR PREVENTS GREASE FROM ENTERING COMMUNITY SEWAGE COLLECTION SYSTEM & CAUSING FREQUENT LINE PLUGGING

LARGE ACCESS OPENINGS PROVIDE EASIER PUMPING & MAINTENANCE

2 COMPARTMENT TANK WITH APPROXIMATELY 60% OF CAPACITY ON INLET SIDE

WITHSTANDS UP TO 6' OF BURY, RISERS ARE AVAILABLE FOR INLET & OUTLET

OPTIONS:

- 24" I.D. MANHOLE RISERS
- ROOF OF TOP SECTION FOR TRAFFIC LOADINGS
- GAS TIGHT CAST IRON RINGS & COVERS

PIPING KNOCKOUTS 16" FROM END OF TANK TO CENTER OF KNOCKOUT TO ALLOW FOR CONCRETE TO BE BROKEN OUT TO ALLOW FOR SIDE INLET OR OUTLET PIPE AT SAME HEIGHT AS STANDARD INLET & OUTLET, TYP. OF 4

4" THICK WALLS & FLOOR, 5" THICK ROOF
*NOTE: WALLS & DIVIDER DO TAPER, THICKNESSES DO DECREASE TO ALLOW FOR FORM REMOVAL; THE AVG. WALL & DIVIDER THICKNESSES ARE LISTED

OUR STANDARD 24" DIAMETER CAST IRON RINGS & COVERS, TYP. OF 2

24" I.D. MANHOLE RISER AS REQUIRED, TYP. INLET/OUTLET END; AVAILABLE IN 2", 3", 4", 6", 8" OR 12" HEIGHTS

CONSEAL JOINT SEALANT, OR CONTRACTOR TO GROUT

PIPING BLOCKOUTS WITH POLYLOK PIPE SEALS CAST IN TANK FOR INLET & OUTLET PIPING (TYPICAL)

CONTRACTOR'S 4" PIPES

VCP SUPPLIED 4" SDR35 INLET & OUTLET TEES

CONSEAL JOINT SEALANT

TANK WEIGHTS:

- COMPLETE INTERCEPTOR : 14,000 LBS.

DIGGING SPECIFICATIONS:

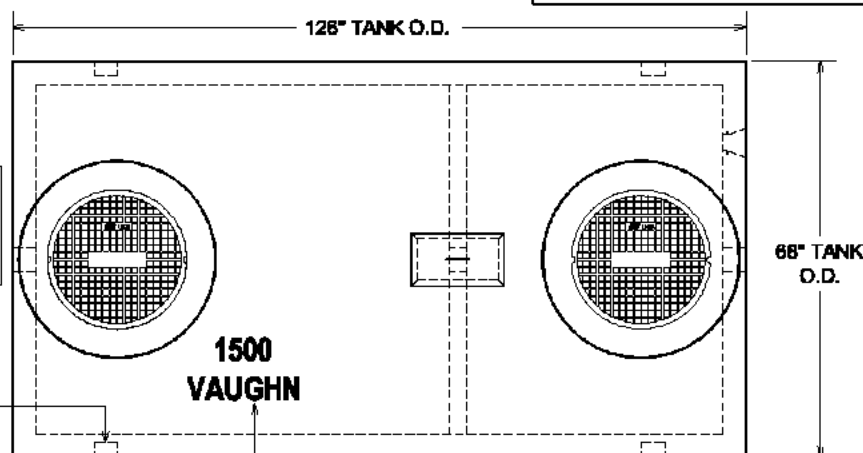
- 58" BELOW THE INLET
- EXCAVATION TO BE 6 1/2' WIDE X 14' LONG
- SEE OUR INSTALLATION GUIDELINES PRIOR TO INSTALLING THIS TANK

CONCRETE : 4,000 P.S.I. (MINIMUM)

REINFORCING : REBAR & WELDED WIRE FABRIC

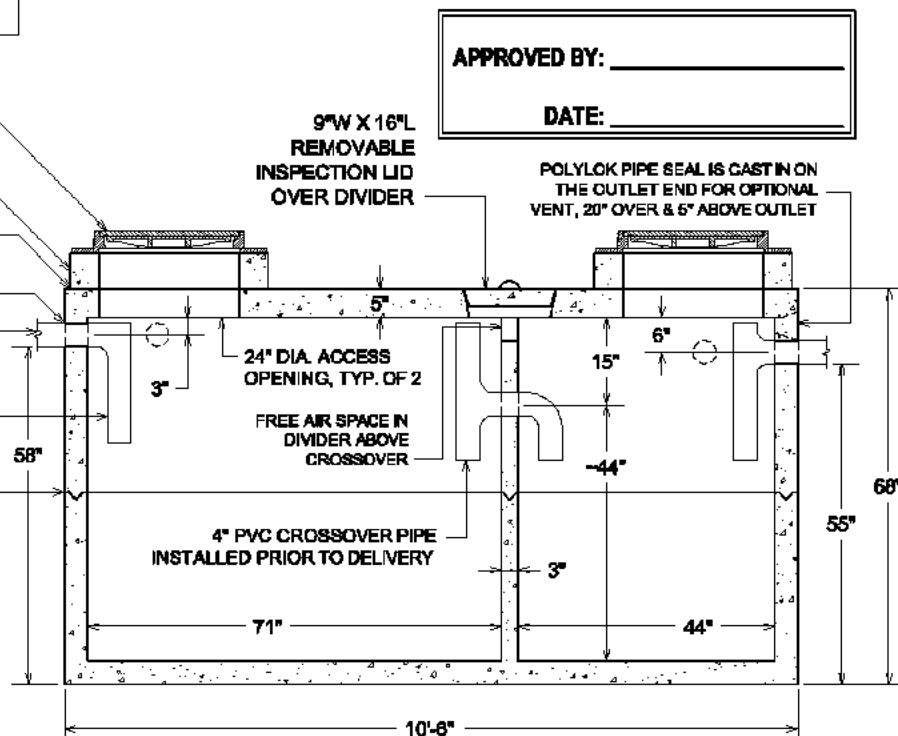
ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

IT IS THE EXCAVATOR'S OR INSTALLER'S RESPONSIBILITY TO REQUEST OUR INSTALLATION GUIDELINES PRIOR TO INSTALLING THIS TANK



PLAN VIEW

DURING PRODUCTION, "TANK SIZE" & "VAUGHN" ARE STAMPED IN LID, "IN" & "OUT" ARE MARKED ON TANK ENDS



SECTION VIEW

DRAWING IS NOT TO SCALE

1500 GAL. GI, NON-TRAFFIC
DATE CREATED: 11/04
UPDATED: 12/09

vaughn concrete products, inc.

12650 Tucson Street • Henderson, Colorado 80640 • 303-659-3747, Fax 303-659-1333
2671 South Greeley Hwy • Cheyenne, Wyoming 82007 • 307-634-0695, Fax 307-634-0694

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PRECAST CONCRETE GREASE INTERCEPTOR

1500 GALLON CAPACITY
WITH TOP FOR TRAFFIC
STANDARD FOR COLORADO & WYOMING

IT IS THE EXCAVATOR'S OR
INSTALLER'S RESPONSIBILITY
TO REQUEST OUR
INSTALLATION GUIDELINES
PRIOR TO INSTALLING THIS
TANK

GREASE INTERCEPTOR PREVENTS
GREASE FROM ENTERING COMMUNITY
SEWAGE COLLECTION SYSTEM & CAUSING
FREQUENT LINE PLUGGING

LARGE ACCESS OPENINGS PROVIDE
EASIER PUMPING & MAINTENANCE

2 COMPARTMENT TANK WITH
APPROXIMATELY 60% OF
CAPACITY ON INLET SIDE

WITHSTANDS UP TO 6' OF BURY,
RISERS ARE AVAILABLE FOR
INLET & OUTLET

OPTIONS:

- 24" I.D. MANHOLE RISERS
- GAS TIGHT CAST IRON RINGS & COVERS

PIPING KNOCKOUTS 16" FROM END OF
TANK TO CENTER OF KNOCKOUT TO
ALLOW FOR CONCRETE TO BE BROKEN
OUT TO ALLOW FOR SIDE INLET OR
OUTLET PIPE AT SAME HEIGHT AS
STANDARD INLET & OUTLET, TYP. OF 4

4" THICK WALLS & FLOOR, 9" THICK ROOF
*NOTE: WALLS & DIVIDER DO TAPER,
THICKNESSES DO DECREASE TO ALLOW FOR
FORM REMOVAL; THE AVG. WALL & DIVIDER
THICKNESSES ARE LISTED

OUR STANDARD 24" DIAMETER CAST
IRON RINGS & COVERS, TYP. OF 2

24" I.D. MANHOLE RISER AS REQUIRED,
TYP. INLET/OUTLET END; AVAILABLE IN
2", 3", 4", 6", 8" OR 12" HEIGHTS

CONSEAL JOINT SEALANT, OR
CONTRACTOR TO GROUT

PIPING BLOCKOUTS WITH POLYLOK
PIPE SEALS CAST IN TANK FOR INLET
& OUTLET PIPING (TYPICAL)

CONTRACTOR'S 4" PIPES

VCP SUPPLIED 4" SDR35
INLET & OUTLET TEES

CONSEAL JOINT SEALANT

TANK WEIGHTS:

- COMPLETE INTERCEPTOR : 16,800 LBS.

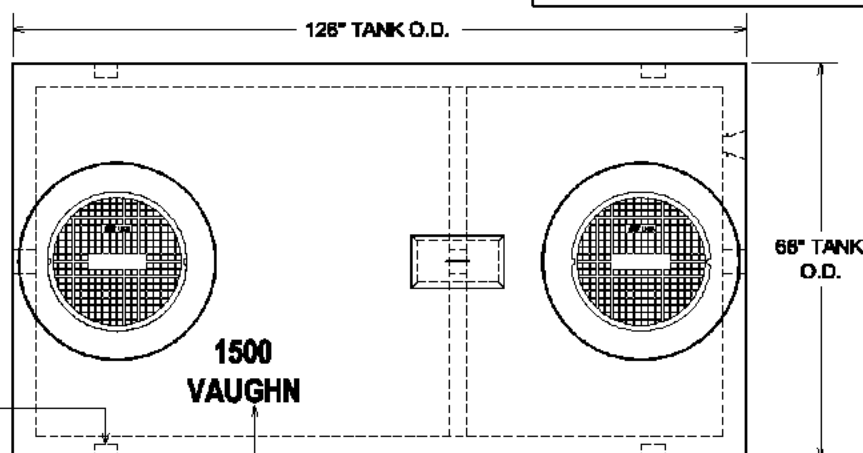
DIGGING SPECIFICATIONS:

- 58" BELOW THE INLET
- EXCAVATION TO BE 6 1/2' WIDE X 14' LONG
- SEE OUR INSTALLATION GUIDELINES
PRIOR TO INSTALLING THIS TANK

CONCRETE : 4,000 P.S.I. (MINIMUM)

REINFORCING : REBAR & WELDED WIRE FABRIC

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

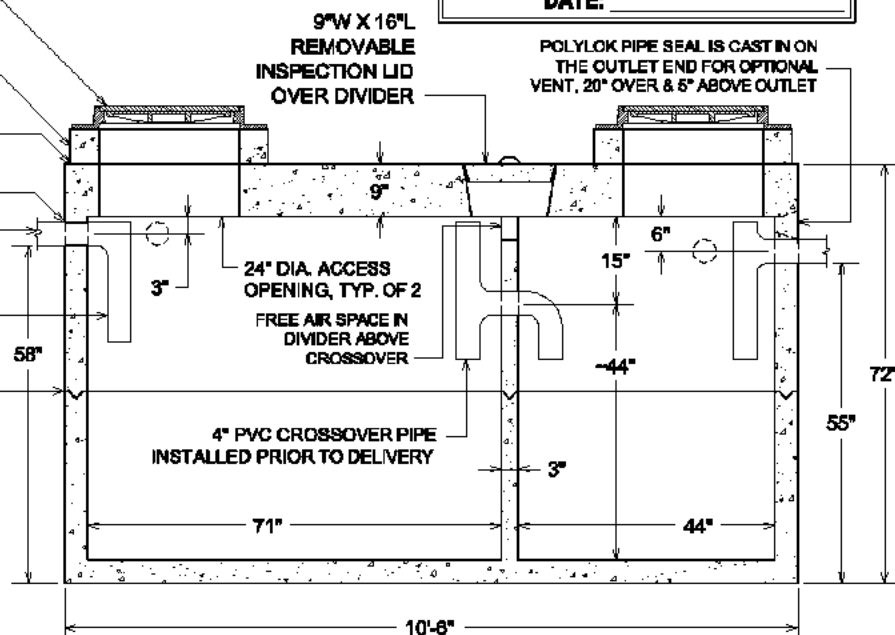


PLAN VIEW

DURING PRODUCTION, "TANK SIZE" &
"VAUGHN" ARE STAMPED IN LID, "IN" &
"OUT" ARE MARKED ON TANK ENDS

APPROVED BY: _____

DATE: _____



SECTION VIEW

DRAWING IS NOT TO SCALE

vaughn concrete products, inc.

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2671 South Greeley Hwy • Cheyenne, Wyoming 82007 • 307-634-0695, Fax 307-634-0694

www.vaughnconcreteproducts.com

1500 GAL. GI, TRAFFIC.DWG
DATE CREATED: 11/04
UPDATED: 12/09

PRECAST CONCRETE GREASE INTERCEPTORS

2000 GALLON & LARGER CAPACITIES

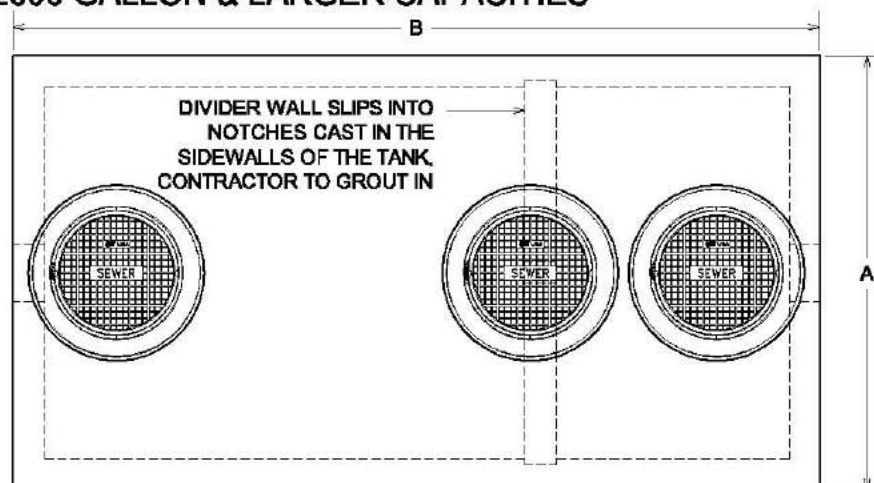
APPROVED BY : _____
DATE : _____

SELECT SIZE:

2000 _____
2500 _____
3000 _____
3500 _____
4000 _____

PLAN VIEW

IT IS THE EXCAVATOR'S OR INSTALLER'S
RESPONSIBILITY TO REQUEST OUR
INSTALLATION GUIDELINES PRIOR TO
INSTALLING THIS TANK



24" I.D. MANHOLE RISER AS
REQUIRED TO ADJUST
RINGS & COVERS TO GRADE,
TYP. EACH ACCESS

CONSEAL JOINT SEALANT

11" DIAMETER OPENING CAST IN ON
INLET & OUTLET END, OPENING
CAN BE PROVIDED WITH PRESS-IN
GASKETS FOR 4", 6" OR 8" PIPE

OUR STANDARD 24" DIAMETER CAST
IRON RINGS & COVERS, TYP. OF 3

CONSEAL JOINT SEALANT

SECTION VIEW

"G", "H", "I" & "K" DIMENSIONS:
ALL ARE TO THE PIPE INVERT

**"J" DIMENSION:
IS APPROXIMATE HEIGHT FROM BOTTOM OF
PRECAST UNIT TO BOTTOM OF 11" HOLE, NOT TO
BOTTOM OF THE PIPE INVERT

**"K" DIMENSION:
IS FOR DIGGING INFORMATION ONLY, APPROXIMATE HEIGHT
FROM BOTTOM OF PRECAST UNIT TO THE PIPE INVERT,
EXCAVATION SHOULD ALLOW 1' ON EACH SIDE OF INTERCEPTOR
FOR SLING & LIFTING BOLT REMOVAL

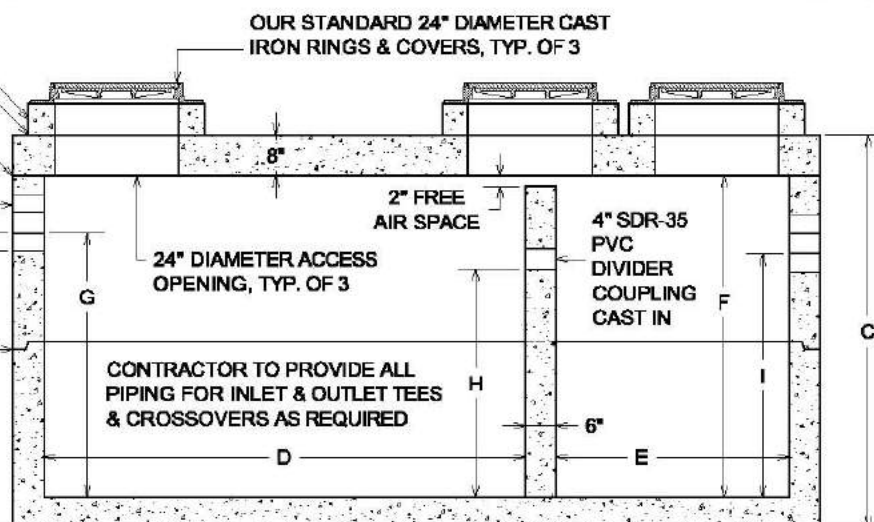
WALLS & FLOOR TO BE 6" THICK

REINFORCED FOR AASHTO HS-20-44 LOADINGS
CONCRETE: 5000 P.S.I. MINIMUM

LARGER SIZE UNITS UP TO 30,000 GALLONS ARE
AVAILABLE - CALL FOR INFORMATION

DRAWING IS NOT TO SCALE

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY



GREASE INTERCEPTOR DIMENSIONS

	2000	2500	3000	3500	4000
A	7'-0"	7'-0"	7'-0"	7'-0"	7'-0"
B	13'-0"	13'-0"	13'-0"	17'-0"	17'-0"
C	76"	88"	100"	89"	98"
D	93"	93"	93"	120"	120"
E	45"	45"	45"	66"	66"
F	62"	74"	86"	75"	84"
G (4" PIPE)	51"	63"	75"	64"	73"
G (6" PIPE)	50"	62"	74"	63"	72"
G (8" PIPE)	49"	61"	73"	62"	71"
H	44"	56"	68"	57"	66"
I (4" PIPE)	47"	59"	71"	60"	69"
*J	53-1/2"	65-1/2"	77-1/2"	66-1/2"	75-1/2"

DIGGING DEPTH INFORMATION

**K (4" PIPE)	57"	69"	81"	70"	79"
**K (6" PIPE)	56"	68"	80"	69"	78"
**K (8" PIPE)	55"	67"	79"	68"	77"

TOTAL APPROXIMATE WEIGHTS (IN LBS)

	31,500	34,900	38,200	43,500	46,800
HEAVIEST PIECE (MAX. WEIGHT) BASED ON EQUAL HEIGHT SECTIONS (IN LBS)	15,000	16,200	17,400	20,500	22,000

2000+ GAL. DRAWING
DATE CREATED: 11/05
UPDATED: 12/09

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10021 Amarillo Blvd East • Amarillo, Texas 79108 • 806-374-3747, Fax 806-335-3717

www.vaughnconcreteproducts.com

MONOLITHIC BODY NO SEAMS OR JOINTS

3" THICK FLOOR
4" THICK WALLS & NON-TRAFFIC LID

2 COMPARTMENT TANK WITH
APPROXIMATELY 60% OF CAPACITY ON
INLET SIDE

TANK IS PROVIDED WITH NOTCHES IN
SIDEWALLS FOR SLIP-IN DIVIDER WALL

WITHSTANDS UP TO 6' OF BURY, RISERS
ARE AVAILABLE FOR INLET & OUTLET

OPTIONS:

- 24" I.D. MANHOLE RISERS
- LID SECTION FOR TRAFFIC LOADINGS
- GAS TIGHT CAST IRON RINGS & COVERS

INTERIOR UNDERSIDE OF LID & INTERIOR
WALLS OF THE TANK COATED WITH OUR
STANDARD BITUMINOUS COATING TO 6"
BELOW THE WATER LEVEL OF THE TANK

OUR STANDARD 24" DIAMETER CAST
IRON RINGS & COVERS, TYP. OF 2

24" I.D. MANHOLE RISER AS REQUIRED,
TYP. INLET/OUTLET END; AVAILABLE IN
2", 3", 4", 6", 8" & 12" HEIGHTS

CONSEAL JOINT SEALANT, OR
CONTRACTOR TO GROUT

PIPING BLOCKOUTS WITH POLYLOK
PIPE SEALS CAST IN TANK FOR INLET
& OUTLET PIPING (TYPICAL)

CONTRACTOR'S 4" PIPES

VCP SUPPLIED 4" SDR35
INLET & OUTLET TEES

TANK WEIGHTS:

- TANK LID : 2,800 LBS.
- TANK WITH DIVIDER ONLY : 8,000 LBS.
- COMPLETE INTERCEPTOR : 10,800 LBS.

DIGGING SPECIFICATIONS:

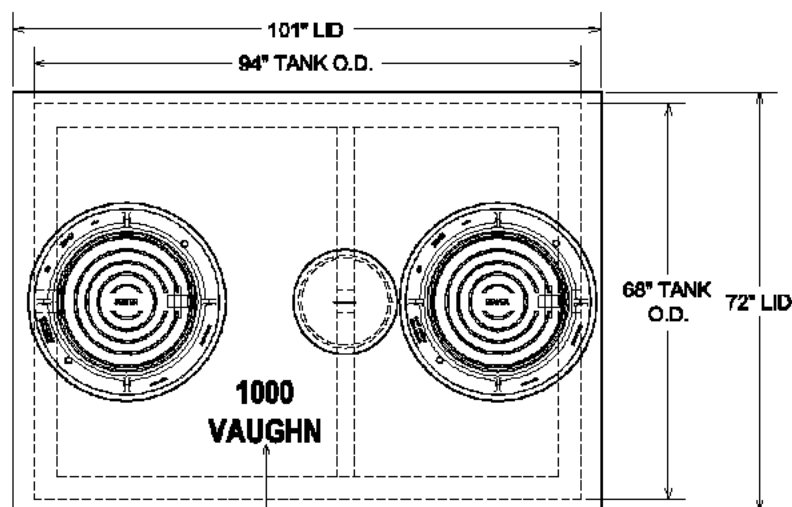
- 54" BELOW THE INLET
- EXCAVATION: 7'-0" WIDE X 10'-0" LONG
- SEE OUR INSTALLATION GUIDELINES
PRIOR TO INSTALLING THIS TANK

CONCRETE : 4,000 P.S.I. (MINIMUM)
REINFORCING : REBAR & WELDED WIRE FABRIC
ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

PRECAST CONCRETE GREASE INTERCEPTOR

1000 GALLON CAPACITY
FOR NON-TRAFFIC APPLICATIONS
STANDARD FOR NEW MEXICO

IT IS THE EXCAVATOR'S OR
INSTALLER'S RESPONSIBILITY
TO REQUEST OUR
INSTALLATION GUIDELINES
PRIOR TO INSTALLING THIS
TANK

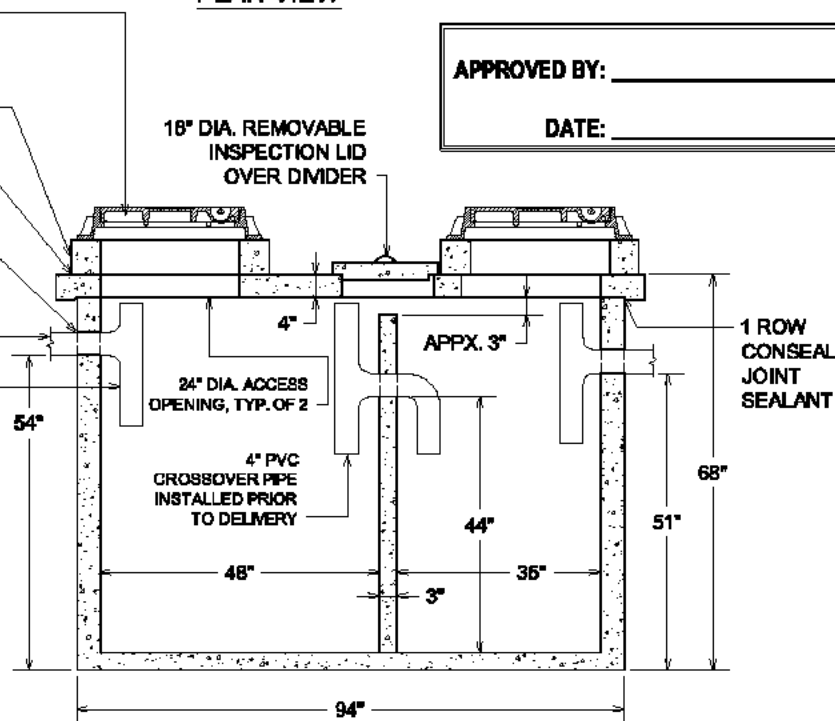


DURING PRODUCTION, "TANK SIZE" &
"VAUGHN" ARE STAMPED IN LID, "IN" &
"OUT" ARE MARKED ON TANK ENDS

PLAN VIEW

APPROVED BY: _____

DATE: _____



SECTION VIEW

DRAWING IS NOT TO SCALE

1000 GAL. G.I. NON-TRAFFIC-LOADING
DATE CREATED: 12/09
UPDATED: _____

vaughn concrete products, inc.

PRECAST CONCRETE GREASE INTERCEPTOR

MONOLITHIC BODY NO SEAMS OR JOINTS

3" THICK FLOOR
4" THICK WALLS
8" THICK LID FOR TRAFFIC

2 COMPARTMENT TANK WITH
APPROXIMATELY 60% OF CAPACITY ON
INLET SIDE

TANK IS PROVIDED WITH NOTCHES IN
SIDEWALLS FOR SLIP-IN DIVIDER WALL

WITHSTANDS UP TO 6' OF BURY, RISERS
ARE AVAILABLE FOR INLET & OUTLET

OPTIONS:

- 24" I.D. MANHOLE RISERS
- GAS TIGHT CAST IRON RINGS & COVERS

INTERIOR UNDERSIDE OF LID & INTERIOR
WALLS OF THE TANK COATED WITH OUR
STANDARD BITUMINOUS COATING TO 6"
BELOW THE WATER LEVEL OF THE TANK

OUR STANDARD 24" DIAMETER CAST
IRON RINGS & COVERS, TYP. OF 2

24" I.D. MANHOLE RISER AS REQUIRED,
TYP. INLET/OUTLET END; AVAILABLE IN
2", 3", 4", 6", 8" & 12" HEIGHTS

CONSEAL JOINT SEALANT, OR
CONTRACTOR TO GROUT

PIPING BLOCKOUTS WITH POLYLOK
PIPE SEALS CAST IN TANK FOR INLET
& OUTLET PIPING (TYPICAL)

CONTRACTOR'S 4" PIPES

VCP SUPPLIED 4" SDR35
INLET & OUTLET TEES

TANK WEIGHTS:

- TANK LID : 5,400 LBS.
- TANK WITH DIVIDER ONLY : 8,000 LBS.
- COMPLETE INTERCEPTOR : 13,400 LBS.

DIGGING SPECIFICATIONS:

- 54" BELOW THE INLET
- EXCAVATION: 7'-0" WIDE X 10'-0" LONG
- SEE OUR *INSTALLATION GUIDELINES*
PRIOR TO INSTALLING THIS TANK

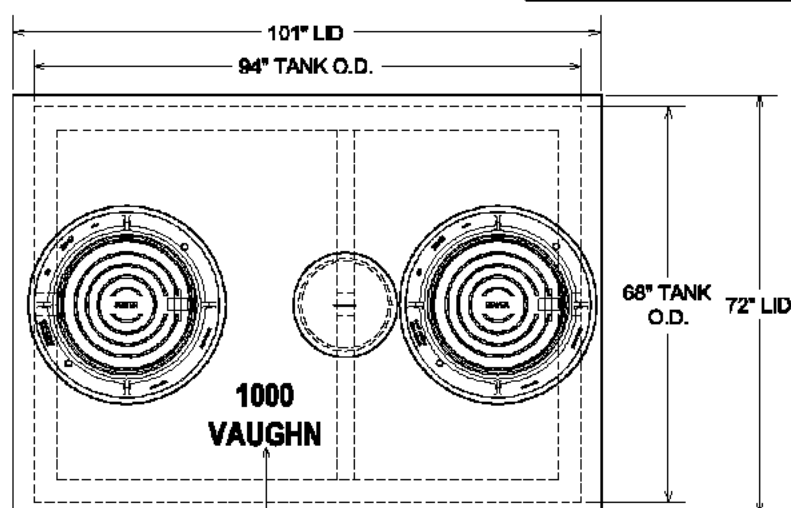
CONCRETE : 4,000 P.S.I. (MINIMUM)

REINFORCING : REBAR & WELDED WIRE FABRIC

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

1000 GALLON CAPACITY
WITH LID FOR TRAFFIC
STANDARD FOR NEW MEXICO

IT IS THE EXCAVATOR'S OR
INSTALLER'S RESPONSIBILITY
TO REQUEST OUR
INSTALLATION GUIDELINES
PRIOR TO INSTALLING THIS
TANK

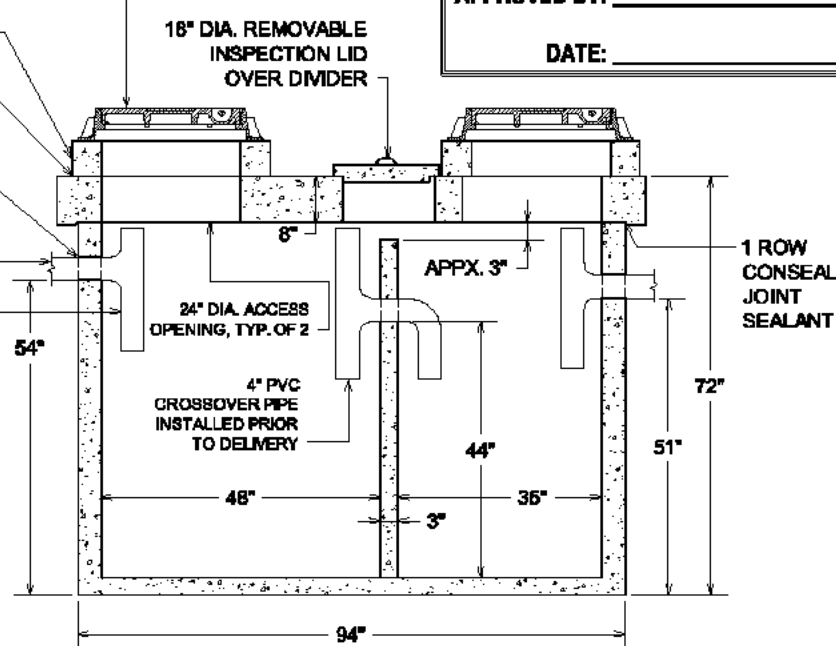


DURING PRODUCTION, "TANK SIZE" &
"VAUGHN" ARE STAMPED IN LID, "IN" &
"OUT" ARE MARKED ON TANK ENDS

PLAN VIEW

APPROVED BY: _____

DATE: _____



SECTION VIEW

DRAWING IS NOT TO SCALE

1000 GAL G1, TRAFFIC-NAZING
DATE CREATED 12/09
UPDATED: _____

vaughn concrete products, inc.

PRECAST CONCRETE GREASE INTERCEPTOR

1500 GALLON CAPACITY FOR NON-TRAFFIC APPLICATIONS STANDARD FOR NEW MEXICO

GREASE INTERCEPTOR PREVENTS GREASE FROM ENTERING COMMUNITY SEWAGE COLLECTION SYSTEM & CAUSING FREQUENT LINE PLUGGING

LARGE ACCESS OPENINGS PROVIDE EASIER PUMPING & MAINTENANCE

2 COMPARTMENT TANK WITH APPROXIMATELY 60% OF CAPACITY ON INLET SIDE

WITHSTANDS UP TO 6' OF BURY, RISERS ARE AVAILABLE FOR INLET & OUTLET

OPTIONS:

- 24" I.D. MANHOLE RISERS
- ROOF OF TOP SECTION FOR TRAFFIC LOADINGS
- GAS TIGHT CAST IRON RINGS & COVERS

PIPING KNOCKOUTS 16" FROM END OF TANK TO CENTER OF KNOCKOUT TO ALLOW FOR CONCRETE TO BE BROKEN OUT TO ALLOW FOR SIDE INLET OR OUTLET PIPE AT SAME HEIGHT AS STANDARD INLET & OUTLET, TYP. OF 4

4" THICK WALLS & FLOOR, 5" THICK ROOF
*NOTE: WALLS & DIVIDER DO TAPER, THICKNESSES DO DECREASE TO ALLOW FOR FORM REMOVAL; THE AVG. WALL & DIVIDER THICKNESSES ARE LISTED

OUR STANDARD 24" DIAMETER CAST IRON RINGS & COVERS, TYP. OF 2
24" I.D. MANHOLE RISER AS REQUIRED, TYP. INLET/OUTLET END; AVAILABLE IN 2", 3", 4", 6", 8" OR 12" HEIGHTS

CONSEAL JOINT SEALANT, OR CONTRACTOR TO GROUT

PIPING BLOCKOUTS WITH POLYLOK PIPE SEALS CAST IN TANK FOR INLET & OUTLET PIPING (TYPICAL)

CONTRACTOR'S 4" PIPES

VCP SUPPLIED 4" SDR35 INLET & OUTLET TEES

CONSEAL JOINT SEALANT

TANK WEIGHTS:

- COMPLETE INTERCEPTOR : 14,000 LBS.

DIGGING SPECIFICATIONS:

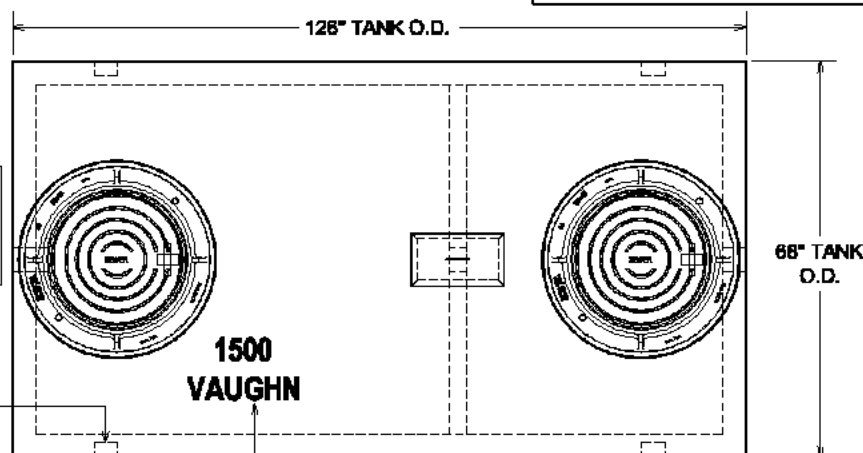
- 58" BELOW THE INLET
- EXCAVATION TO BE 6 1/2' WIDE X 14' LONG
- SEE OUR INSTALLATION GUIDELINES PRIOR TO INSTALLING THIS TANK

CONCRETE : 4,000 P.S.I. (MINIMUM)

REINFORCING : REBAR & WELDED WIRE FABRIC

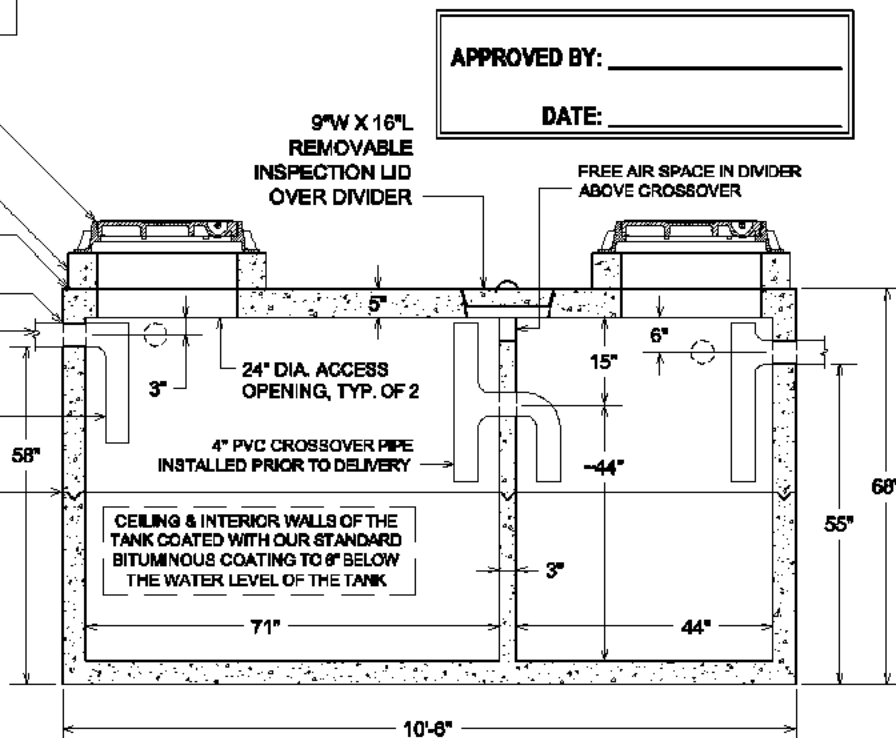
ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

IT IS THE EXCAVATOR'S OR INSTALLER'S RESPONSIBILITY TO REQUEST OUR INSTALLATION GUIDELINES PRIOR TO INSTALLING THIS TANK



PLAN VIEW

DURING PRODUCTION, "TANK SIZE" & "VAUGHN" ARE STAMPED IN LID, "IN" & "OUT" ARE MARKED ON TANK ENDS



SECTION VIEW

DRAWING IS NOT TO SCALE

1500 GAL. GI, NON-TRAFFIC-WALKING
DATE CREATED: 12/09
UPDATED: -----

vaughn concrete products, inc.

10021 Amarillo Blvd East • Amarillo, Texas 79108 • 806-374-3747, Fax 806-335-3717
www.vaughnconcreteproducts.com

GREASE INTERCEPTOR PREVENTS GREASE FROM ENTERING COMMUNITY SEWAGE COLLECTION SYSTEM & CAUSING FREQUENT LINE PLUGGING

LARGE ACCESS OPENINGS PROVIDE EASIER PUMPING & MAINTENANCE

2 COMPARTMENT TANK WITH APPROXIMATELY 60% OF CAPACITY ON INLET SIDE

WITHSTANDS UP TO 6' OF BURY, RISERS ARE AVAILABLE FOR INLET & OUTLET

OPTIONS:

- 24" I.D. MANHOLE RISERS
- GAS TIGHT CAST IRON RINGS & COVERS

PIPING KNOCKOUTS 16" FROM END OF TANK TO CENTER OF KNOCKOUT TO ALLOW FOR CONCRETE TO BE BROKEN OUT TO ALLOW FOR SIDE INLET OR OUTLET PIPE AT SAME HEIGHT AS STANDARD INLET & OUTLET, TYP. OF 4

4" THICK WALLS & FLOOR, 9" THICK ROOF
*NOTE: WALLS & DIVIDER DO TAPER, THICKNESSES DO DECREASE TO ALLOW FOR FORM REMOVAL; THE AVG. WALL & DIVIDER THICKNESSES ARE LISTED

OUR STANDARD 24" DIAMETER CAST IRON RINGS & COVERS, TYP. OF 2
24" I.D. MANHOLE RISER AS REQUIRED, TYP. INLET/OUTLET END; AVAILABLE IN 2", 3", 4", 6", 8" OR 12" HEIGHTS

CONSEAL JOINT SEALANT, OR CONTRACTOR TO GROUT

PIPING BLOCKOUTS WITH POLYLOK PIPE SEALS CAST IN TANK FOR INLET & OUTLET PIPING (TYPICAL)

CONTRACTOR'S 4" PIPES

VCP SUPPLIED 4" SDR35 INLET & OUTLET TEES

CONSEAL JOINT SEALANT

TANK WEIGHTS:

- COMPLETE INTERCEPTOR : 16,800 LBS.

DIGGING SPECIFICATIONS:

- 58" BELOW THE INLET
- EXCAVATION TO BE 6 1/2' WIDE X 14' LONG
- SEE OUR INSTALLATION GUIDELINES PRIOR TO INSTALLING THIS TANK

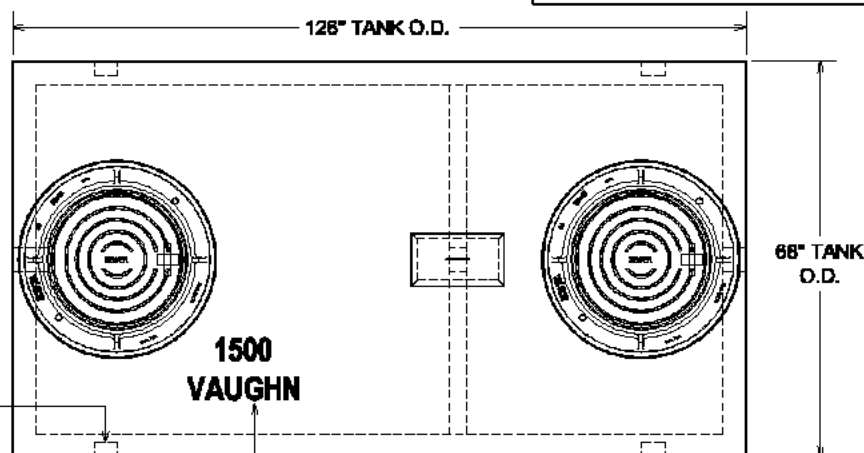
CONCRETE : 4,000 P.S.I. (MINIMUM)
REINFORCING : REBAR & WELDED WIRE FABRIC

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

PRECAST CONCRETE GREASE INTERCEPTOR

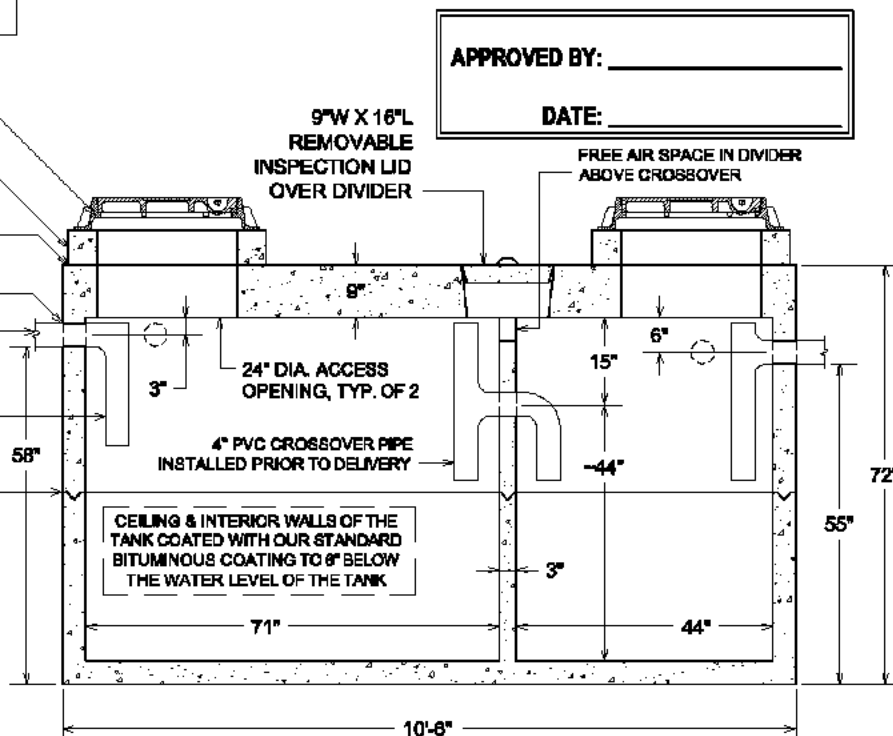
1500 GALLON CAPACITY
WITH TOP FOR TRAFFIC
STANDARD FOR NEW MEXICO

IT IS THE EXCAVATOR'S OR INSTALLER'S RESPONSIBILITY TO REQUEST OUR INSTALLATION GUIDELINES PRIOR TO INSTALLING THIS TANK



PLAN VIEW

DURING PRODUCTION, "TANK SIZE" & "VAUGHN" ARE STAMPED IN LID, "IN" & "OUT" ARE MARKED ON TANK ENDS



SECTION VIEW

APPROVED BY: _____

DATE: _____

FREE AIR SPACE IN DIVIDER ABOVE CROSSOVER

DRAWING IS NOT TO SCALE

1500 GAL. GI, TRAFFIC-LOADING
DATE CREATED: 12/09
UPDATED: _____

vaughn concrete products, inc.

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www.vaughnconcreteproducts.com

PRECAST CONCRETE GREASE INTERCEPTORS

2000 GALLON & LARGER CAPACITIES IN NEW MEXICO

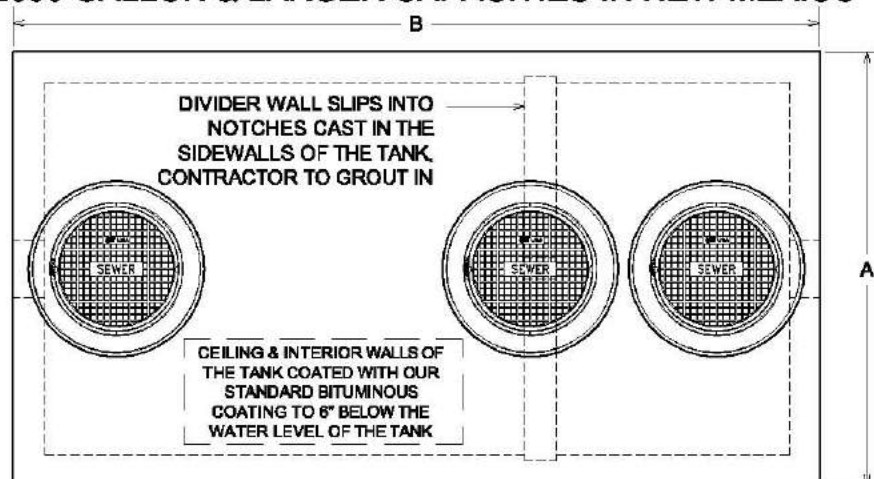
APPROVED BY : _____
DATE : _____

SELECT SIZE:

2000 _____
2500 _____
3000 _____
3500 _____
4000 _____

PLAN VIEW

IT IS THE EXCAVATOR'S OR INSTALLER'S
RESPONSIBILITY TO REQUEST OUR
INSTALLATION GUIDELINES PRIOR TO
INSTALLING THIS TANK



24" I.D. MANHOLE RISER AS
REQUIRED TO ADJUST
RINGS & COVERS TO GRADE,
TYP. EACH ACCESS

CONSEAL JOINT SEALANT

11" DIAMETER OPENING CAST IN ON
INLET & OUTLET END, OPENING
CAN BE PROVIDED WITH PRESS-IN
GASKETS FOR 4", 6" OR 8" PIPE

OUR STANDARD 24" DIAMETER CAST
IRON RINGS & COVERS, TYP. OF 3

CONSEAL JOINT SEALANT

SECTION VIEW

"G", "H", "I" & "K" DIMENSIONS:
ALL ARE TO THE PIPE INVERT

**"J" DIMENSION:
IS APPROXIMATE HEIGHT FROM BOTTOM OF
PRECAST UNIT TO BOTTOM OF 11" HOLE, NOT TO
BOTTOM OF THE PIPE INVERT

**"K" DIMENSION:
IS FOR DIGGING INFORMATION ONLY, APPROXIMATE HEIGHT
FROM BOTTOM OF PRECAST UNIT TO THE PIPE INVERT,
EXCAVATION SHOULD ALLOW 1' ON EACH SIDE OF INTERCEPTOR
FOR SLING & LIFTING BOLT REMOVAL

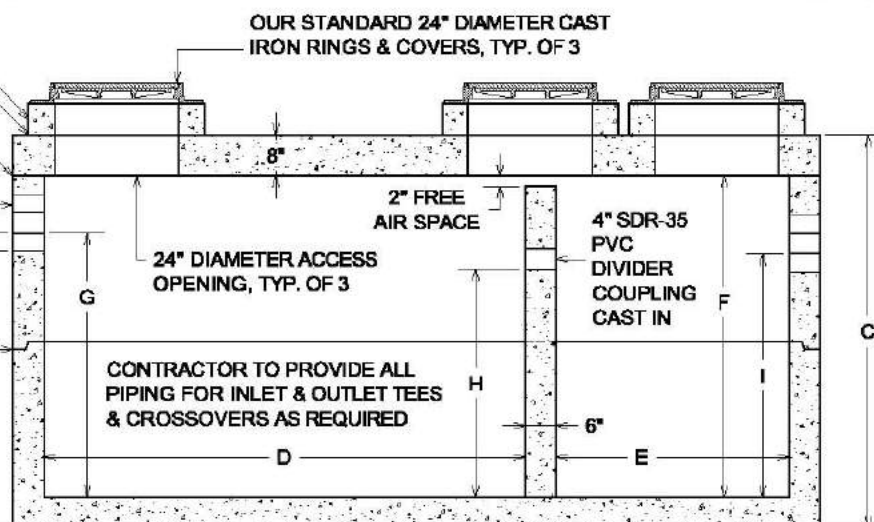
WALLS & FLOOR TO BE 6" THICK

REINFORCED FOR AASHTO HS-20-44 LOADINGS
CONCRETE: 5000 P.S.I. MINIMUM

LARGER SIZE UNITS UP TO 30,000 GALLONS ARE
AVAILABLE - CALL FOR INFORMATION

DRAWING IS NOT TO SCALE

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY



GREASE INTERCEPTOR DIMENSIONS

	2000	2500	3000	3500	4000
A	7'-0"	7'-0"	7'-0"	7'-0"	7'-0"
B	13'-0"	13'-0"	13'-0"	17'-0"	17'-0"
C	76"	88"	100"	89"	98"
D	93"	93"	93"	120"	120"
E	45"	45"	45"	66"	66"
F	62"	74"	86"	75"	84"
G (4" PIPE)	51"	63"	75"	64"	73"
G (6" PIPE)	50"	62"	74"	63"	72"
G (8" PIPE)	49"	61"	73"	62"	71"
H	44"	56"	68"	57"	66"
I (4" PIPE)	47"	59"	71"	60"	69"
*J	53-1/2"	65-1/2"	77-1/2"	66-1/2"	75-1/2"
DIGGING DEPTH INFORMATION					
**K (4" PIPE)	57"	69"	81"	70"	79"
**K (6" PIPE)	56"	68"	80"	69"	78"
**K (8" PIPE)	55"	67"	79"	68"	77"
TOTAL APPROXIMATE WEIGHTS (IN LBS)					
	31,500	34,900	38,200	43,500	46,800
HEAVIEST PIECE (MAX. WEIGHT) BASED ON EQUAL HEIGHT SECTIONS (IN LBS)					
	15,000	16,200	17,400	20,500	22,000

2000+ GAL. G-NIMING
DATE CREATED: 12/09
UPDATED: -----

vaughn concrete products, inc.

12650 Tucson Street • Henderson, Colorado 80640 • 303-659-3747, Fax 303-659-1333
2671 South Greeley Hwy • Cheyenne, Wyoming 82007 • 307-634-0695, Fax 307-634-0694
10021 Amarillo Blvd East • Amarillo, Texas 79108 • 806-374-3747, Fax 806-335-3717
www.vaughnconcreteproducts.com

MONOLITHIC BODY NO SEAMS OR JOINTS

3" THICK FLOOR
4" THICK WALLS & NON-TRAFFIC LID

2 COMPARTMENT TANK WITH
APPROXIMATELY 60% OF CAPACITY ON
INLET SIDE

TANK IS PROVIDED WITH NOTCHES IN
SIDEWALLS FOR SLIP-IN DIVIDER WALL

WITHSTANDS UP TO 6' OF BURY, RISERS
ARE AVAILABLE FOR INLET & OUTLET

OPTIONS:

- 24" I.D. MANHOLE RISERS
- LID SECTION FOR TRAFFIC LOADINGS
- GAS TIGHT CAST IRON RINGS & COVERS
- 18" HDPE RISER PIPE FOR INSPECTION
OPENING OVER DIVIDER WALL
- 18" DIAMETER CAST IRON RING &
COVER TO SET OVER INSPECTION
OPENING

OUR STANDARD 24" DIAMETER CAST
IRON RINGS & COVERS, TYP. OF 2

24" I.D. MANHOLE RISER AS REQUIRED,
TYP. INLET/OUTLET END; AVAILABLE IN
2", 3", 4", 6", 8" & 12" HEIGHTS

CONSEAL JOINT SEALANT, OR
CONTRACTOR TO GROUT

PIPING BLOCKOUTS WITH POLYLOK
PIPE SEALS CAST IN TANK FOR INLET
& OUTLET PIPING (TYPICAL)

CONTRACTOR'S 4" PIPES

VCP SUPPLIED 4" SDR35 INLET &
OUTLET TEES & CROSSOVER NOT TO
EXCEED 18" OFF OF INSIDE FLOOR

TANK WEIGHTS:

- TANK LID : 2,800 LBS.
- TANK WITH DIVIDER ONLY : 8,000 LBS.
- COMPLETE INTERCEPTOR : 10,800 LBS.

DIGGING SPECIFICATIONS:

- 54" BELOW THE INLET
- EXCAVATION: 7'-0" WIDE X 10'-0" LONG
- SEE OUR *INSTALLATION GUIDELINES*
PRIOR TO INSTALLING THIS TANK

CONCRETE : 4,000 P.S.I. (MINIMUM)

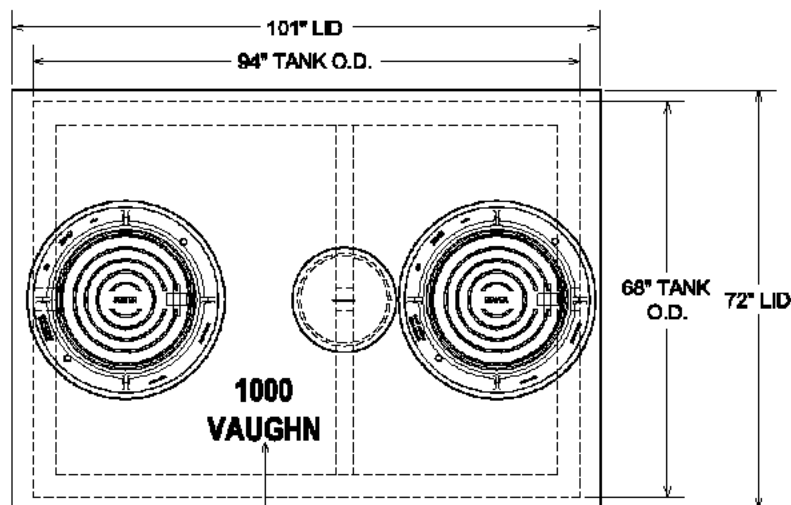
REINFORCING : REBAR & WELDED WIRE FABRIC

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

PRECAST CONCRETE GREASE INTERCEPTOR

1000 GALLON CAPACITY
FOR NON-TRAFFIC APPLICATIONS
STANDARD FOR LUBBOCK & ODESSA, TX

IT IS THE EXCAVATOR'S OR
INSTALLER'S RESPONSIBILITY
TO REQUEST OUR
INSTALLATION GUIDELINES
PRIOR TO INSTALLING THIS
TANK

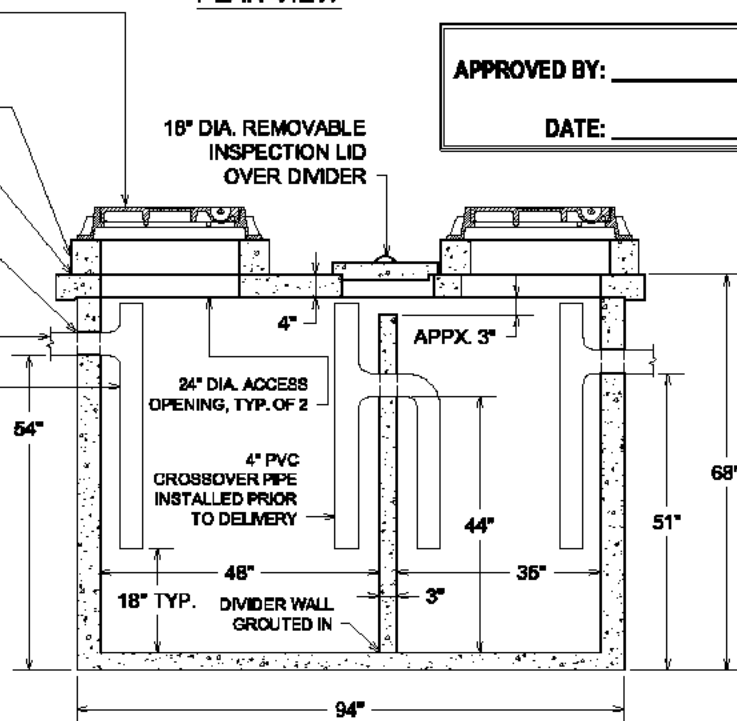


DURING PRODUCTION, "TANK SIZE" &
"VAUGHN" ARE STAMPED IN LID, "IN" &
"OUT" ARE MARKED ON TANK ENDS

PLAN VIEW

APPROVED BY: _____

DATE: _____



SECTION VIEW

DRAWING IS NOT TO SCALE

vaughn
concrete products, inc.

1000 GAL. GI, NON-TRAFFIC-LUBBOCK-ODESSA.DWG
DATE CREATED: 11/04
UPDATED: 12/09

PRECAST CONCRETE GREASE INTERCEPTOR

1000 GALLON CAPACITY
WITH LID FOR TRAFFIC
STANDARD FOR LUBBOCK & ODESSA, TX

IT IS THE EXCAVATOR'S OR
INSTALLER'S RESPONSIBILITY
TO REQUEST OUR
INSTALLATION GUIDELINES
PRIOR TO INSTALLING THIS
TANK

MONOLITHIC BODY NO SEAMS OR JOINTS

3" THICK FLOOR
4" THICK WALLS
8" THICK LID FOR TRAFFIC

2 COMPARTMENT TANK WITH
APPROXIMATELY 60% OF CAPACITY ON
INLET SIDE

TANK IS PROVIDED WITH NOTCHES IN
SIDEWALLS FOR SLIP-IN DIVIDER WALL

WITHSTANDS UP TO 6' OF BURY, RISERS
ARE AVAILABLE FOR INLET & OUTLET

OPTIONS:

- 24" I.D. MANHOLE RISERS
- GAS TIGHT CAST IRON RINGS & COVERS
- 18" HDPE RISER PIPE FOR INSPECTION
OPENING OVER DIVIDER WALL
- 18" DIAMETER CAST IRON RING &
COVER TO SET OVER INSPECTION
OPENING

OUR STANDARD 24" DIAMETER CAST
IRON RINGS & COVERS, TYP. OF 2

24" I.D. MANHOLE RISER AS REQUIRED,
TYP. INLET/OUTLET END; AVAILABLE IN
2", 3", 4", 6", 8" & 12" HEIGHTS

CONSEAL JOINT SEALANT, OR
CONTRACTOR TO GROUT

PIPING BLOCKOUTS WITH POLYLOK
PIPE SEALS CAST IN TANK FOR INLET
& OUTLET PIPING (TYPICAL)

CONTRACTOR'S 4" PIPES

VCP SUPPLIED 4" SDR35 INLET & OUTLET
TEES & CROSSOVER NOT TO EXCEED 18"
OFF OF INSIDE FLOOR

TANK WEIGHTS:

- TANK LID : 5,400 LBS.
- TANK WITH DIVIDER ONLY : 8,000 LBS.
- COMPLETE INTERCEPTOR : 13,400 LBS.

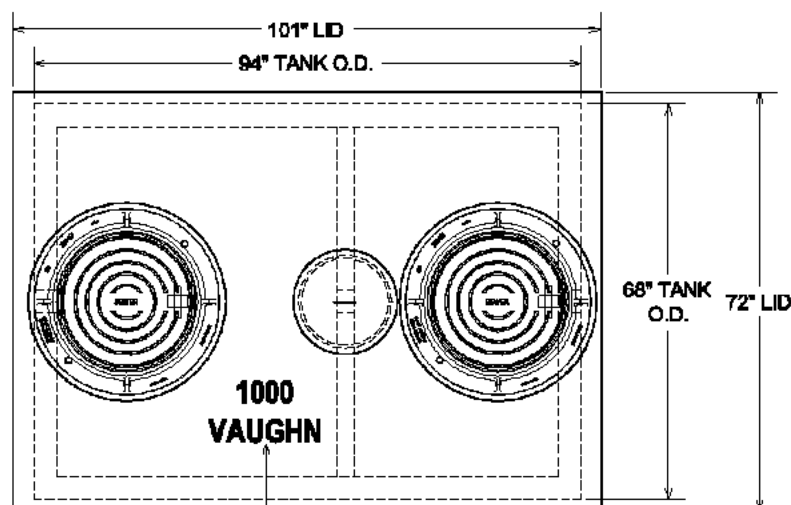
DIGGING SPECIFICATIONS:

- 54" BELOW THE INLET
- EXCAVATION: 7'-0" WIDE X 10'-0" LONG
- SEE OUR INSTALLATION GUIDELINES
PRIOR TO INSTALLING THIS TANK

CONCRETE : 4,000 P.S.I. (MINIMUM)

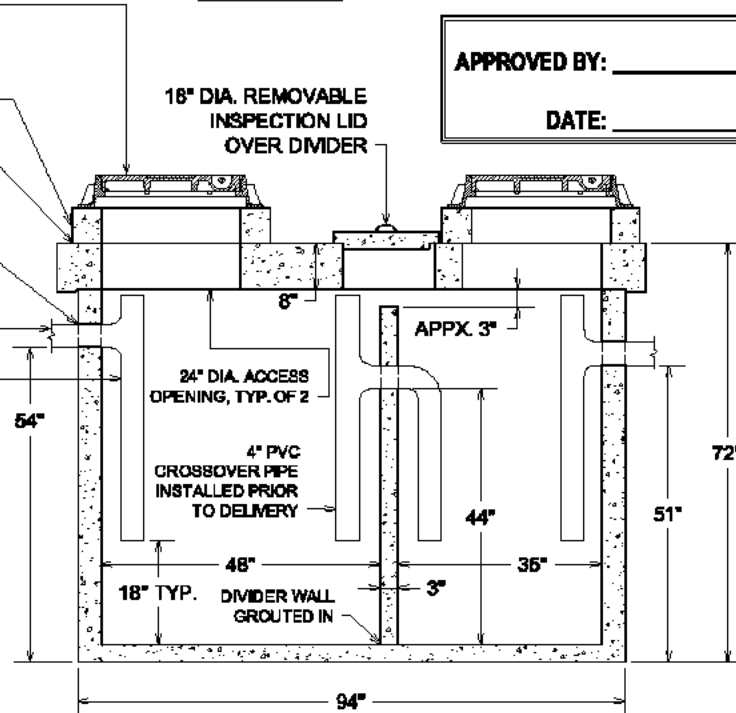
REINFORCING : REBAR & WELDED WIRE FABRIC

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY



DURING PRODUCTION, "TANK SIZE" &
"VAUGHN" ARE STAMPED IN LID, "IN" &
"OUT" ARE MARKED ON TANK ENDS

PLAN VIEW



SECTION VIEW

APPROVED BY: _____

DATE: _____

DRAWING IS NOT TO SCALE

1000 GAL. G.I. TRAFFIC-LUBBOCK-ODESSA.DWG
DATE CREATED: 11/ 04
UPDATED: 12/ 09

vaughn concrete products, inc.

10021 Amarillo Blvd East • Amarillo, Texas 79108 • 806-374-3747, Fax 806-335-3717

www.vaughnconcreteproducts.com

PRECAST CONCRETE GREASE INTERCEPTOR

1500 GALLON CAPACITY FOR NON-TRAFFIC APPLICATIONS STANDARD FOR LUBBOCK & ODESSA, TX

GREASE INTERCEPTOR PREVENTS GREASE FROM ENTERING COMMUNITY SEWAGE COLLECTION SYSTEM & CAUSING FREQUENT LINE PLUGGING

LARGE ACCESS OPENINGS PROVIDE EASIER PUMPING & MAINTENANCE

2 COMPARTMENT TANK WITH APPROXIMATELY 60% OF CAPACITY ON INLET SIDE

WITHSTANDS UP TO 6' OF BURY, RISERS ARE AVAILABLE FOR INLET & OUTLET

OPTIONS:

- 24" I.D. MANHOLE RISERS
- ROOF OF TOP SECTION FOR TRAFFIC LOADINGS
- GAS TIGHT CAST IRON RINGS & COVERS

PIPING KNOCKOUTS 16" FROM END OF TANK TO CENTER OF KNOCKOUT TO ALLOW FOR CONCRETE TO BE BROKEN OUT TO ALLOW FOR SIDE INLET OR OUTLET PIPE AT SAME HEIGHT AS STANDARD INLET & OUTLET, TYP. OF 4

4" THICK WALLS & FLOOR, 5" THICK ROOF
*NOTE: WALLS & DIVIDER DO TAPER, THICKNESSES DO DECREASE TO ALLOW FOR FORM REMOVAL; THE AVG. WALL & DIVIDER THICKNESSES ARE LISTED

OUR STANDARD 24" DIAMETER CAST IRON RINGS & COVERS, TYP. OF 2
24" I.D. MANHOLE RISER AS REQUIRED, TYP. INLET/OUTLET END; AVAILABLE IN 2", 3", 4", 6", 8" OR 12" HEIGHTS

CONSEAL JOINT SEALANT, OR CONTRACTOR TO GROUT

PIPING BLOCKOUTS WITH POLYLOK PIPE SEALS CAST IN TANK FOR INLET & OUTLET PIPING (TYPICAL)

CONTRACTOR'S 4" PIPES

VCP SUPPLIED 4" SDR35 INLET & OUTLET TEES & CROSSOVER NOT TO EXCEED 18" OFF OF INSIDE FLOOR

CONSEAL JOINT SEALANT

TANK WEIGHTS:

- COMPLETE INTERCEPTOR : 14,000 LBS.

DIGGING SPECIFICATIONS:

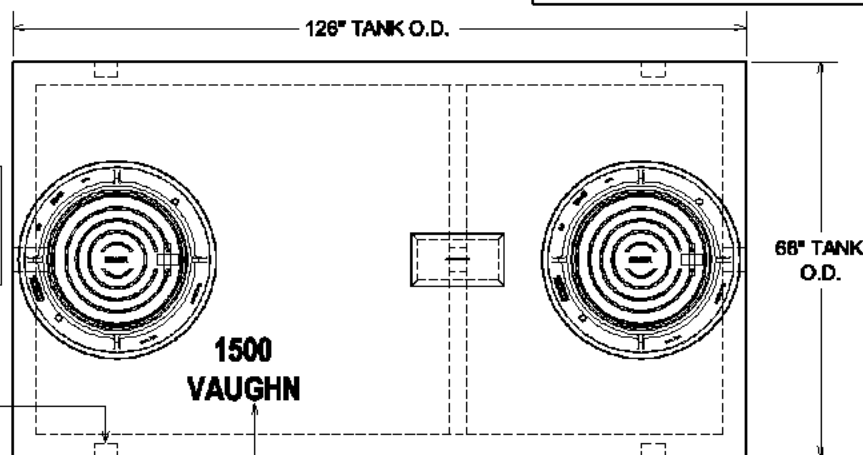
- 58" BELOW THE INLET
- EXCAVATION TO BE 6 1/2' WIDE X 14' LONG
- SEE OUR INSTALLATION GUIDELINES PRIOR TO INSTALLING THIS TANK

CONCRETE : 4,000 P.S.I. (MINIMUM)

REINFORCING : REBAR & WELDED WIRE FABRIC

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

IT IS THE EXCAVATOR'S OR INSTALLER'S RESPONSIBILITY TO REQUEST OUR INSTALLATION GUIDELINES PRIOR TO INSTALLING THIS TANK

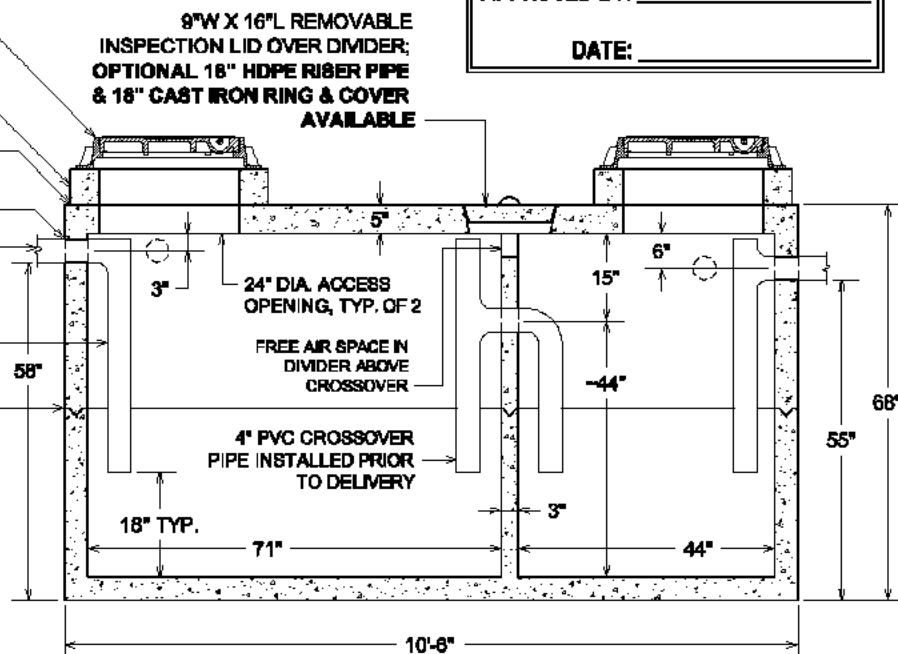


PLAN VIEW

DURING PRODUCTION, "TANK SIZE" & "VAUGHN" ARE STAMPED IN LID, "IN" & "OUT" ARE MARKED ON TANK ENDS

APPROVED BY: _____

DATE: _____



SECTION VIEW

DRAWING IS NOT TO SCALE

1500 GAL. GI. NON-TRAFFIC-LUBBOCK-ODESSA.DWG
DATE CREATED: 11/ 04
UPDATED: 12/ 09

vaughn concrete products, inc.

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www.vaughnconcreteproducts.com

PRECAST CONCRETE GREASE INTERCEPTOR

1500 GALLON CAPACITY
WITH TOP FOR TRAFFIC
STANDARD FOR LUBBOCK & ODESSA, TX

IT IS THE EXCAVATOR'S OR
INSTALLER'S RESPONSIBILITY
TO REQUEST OUR
INSTALLATION GUIDELINES
PRIOR TO INSTALLING THIS
TANK

GREASE INTERCEPTOR PREVENTS
GREASE FROM ENTERING COMMUNITY
SEWAGE COLLECTION SYSTEM & CAUSING
FREQUENT LINE PLUGGING

LARGE ACCESS OPENINGS PROVIDE
EASIER PUMPING & MAINTENANCE

2 COMPARTMENT TANK WITH
APPROXIMATELY 60% OF
CAPACITY ON INLET SIDE

WITHSTANDS UP TO 6' OF BURY,
RISERS ARE AVAILABLE FOR
INLET & OUTLET

OPTIONS:

- 24" I.D. MANHOLE RISERS
- GAS TIGHT CAST IRON RINGS & COVERS

PIPING KNOCKOUTS 16" FROM END OF
TANK TO CENTER OF KNOCKOUT TO
ALLOW FOR CONCRETE TO BE BROKEN
OUT TO ALLOW FOR SIDE INLET OR
OUTLET PIPE AT SAME HEIGHT AS
STANDARD INLET & OUTLET, TYP. OF 4

4" THICK WALLS & FLOOR, 9" THICK ROOF
*NOTE: WALLS & DIVIDER DO TAPER,
THICKNESSES DO DECREASE TO ALLOW FOR
FORM REMOVAL; THE AVG. WALL & DIVIDER
THICKNESSES ARE LISTED

OUR STANDARD 24" DIAMETER CAST
IRON RINGS & COVERS, TYP. OF 2
24" I.D. MANHOLE RISER AS REQUIRED,
TYP. INLET/OUTLET END; AVAILABLE IN
2", 3", 4", 6", 8" OR 12" HEIGHTS

CONSEAL JOINT SEALANT, OR
CONTRACTOR TO GROUT

PIPING BLOCKOUTS WITH POLYLOK
PIPE SEALS CAST IN TANK FOR INLET
& OUTLET PIPING (TYPICAL)

CONTRACTOR'S 4" PIPES

VCP SUPPLIED 4" SDR35 INLET &
OUTLET TEES & CROSSOVER NOT TO
EXCEED 18" OFF OF INSIDE FLOOR

CONSEAL JOINT SEALANT

TANK WEIGHTS:

- COMPLETE INTERCEPTOR : 16,800 LBS.

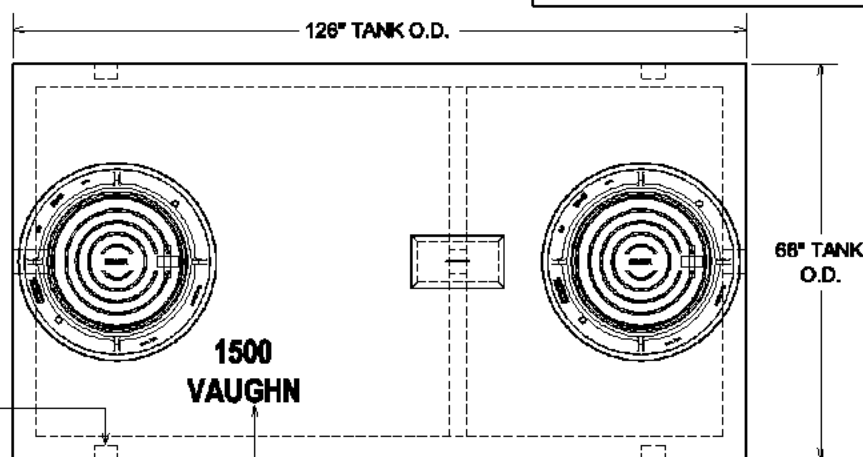
DIGGING SPECIFICATIONS:

- 58" BELOW THE INLET
- EXCAVATION TO BE 6 1/2' WIDE X 14' LONG
- SEE OUR INSTALLATION GUIDELINES
PRIOR TO INSTALLING THIS TANK

CONCRETE : 4,000 P.S.I. (MINIMUM)

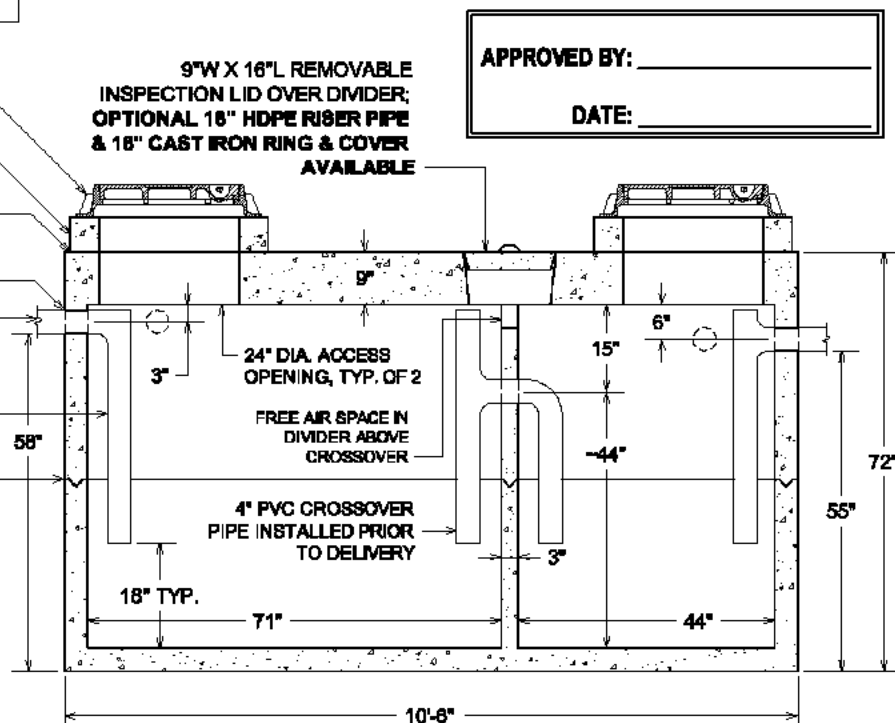
REINFORCING : REBAR & WELDED WIRE FABRIC

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY



PLAN VIEW

DURING PRODUCTION, "TANK SIZE" &
"VAUGHN" ARE STAMPED IN LID, "IN" &
"OUT" ARE MARKED ON TANK ENDS



SECTION VIEW

DRAWING IS NOT TO SCALE

1500 GAL. G. TRAFFIC-LUBBOCK-ODESSA.DWG
DATE CREATED: 11/04
UPDATED: 12/09

vaughn concrete products, inc.

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www.vaughnconcreteproducts.com

PRECAST CONCRETE GREASE INTERCEPTORS

2000 GALLON & LARGER CAPACITIES

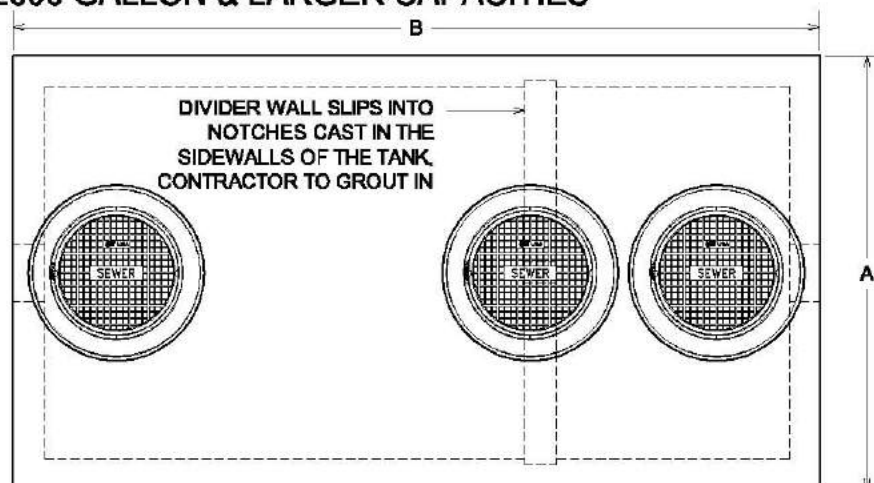
APPROVED BY : _____
DATE : _____

SELECT SIZE:

2000 _____
2500 _____
3000 _____
3500 _____
4000 _____

PLAN VIEW

IT IS THE EXCAVATOR'S OR INSTALLER'S
RESPONSIBILITY TO REQUEST OUR
INSTALLATION GUIDELINES PRIOR TO
INSTALLING THIS TANK



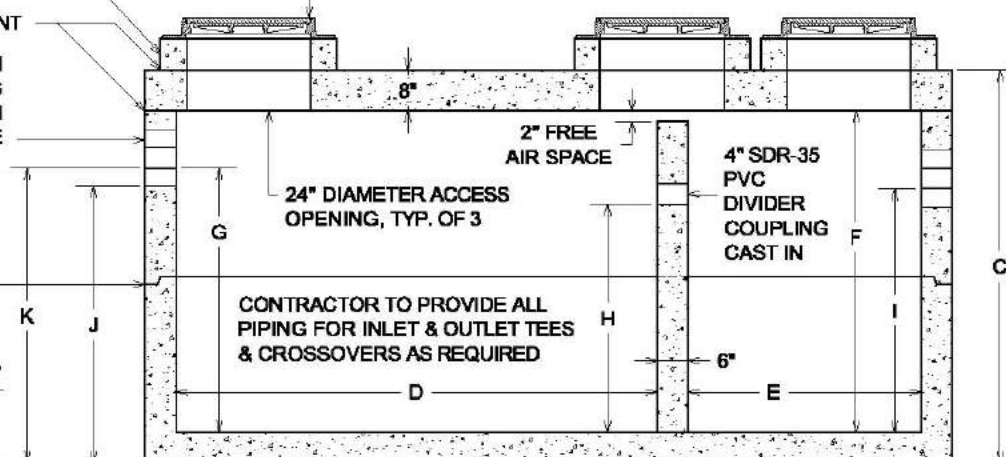
24" I.D. MANHOLE RISER AS
REQUIRED TO ADJUST
RINGS & COVERS TO GRADE,
TYP. EACH ACCESS

OUR STANDARD 24" DIAMETER CAST
IRON RINGS & COVERS, TYP. OF 3

CONSEAL JOINT SEALANT
11" DIAMETER OPENING CAST IN ON
INLET & OUTLET END, OPENING
CAN BE PROVIDED WITH PRESS-IN
GASKETS FOR 4", 6" OR 8" PIPE

CONSEAL JOINT SEALANT

SECTION VIEW



"G", "H", "I" & "K" DIMENSIONS:
ALL ARE TO THE PIPE INVERT

**"J" DIMENSION:
IS APPROXIMATE HEIGHT FROM BOTTOM OF
PRECAST UNIT TO BOTTOM OF 11" HOLE, NOT TO
BOTTOM OF THE PIPE INVERT

**"K" DIMENSION:
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FROM BOTTOM OF PRECAST UNIT TO THE PIPE INVERT,
EXCAVATION SHOULD ALLOW 1' ON EACH SIDE OF INTERCEPTOR
FOR SLING & LIFTING BOLT REMOVAL

WALLS & FLOOR TO BE 6" THICK

REINFORCED FOR AASHTO HS-20-44 LOADINGS
CONCRETE: 5000 P.S.I. MINIMUM

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GREASE INTERCEPTOR DIMENSIONS

	2000	2500	3000	3500	4000
A	7'-0"	7'-0"	7'-0"	7'-0"	7'-0"
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F	62"	74"	86"	75"	84"
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DIGGING DEPTH INFORMATION

**K (4" PIPE)	57"	69"	81"	70"	79"
**K (6" PIPE)	56"	68"	80"	69"	78"
**K (8" PIPE)	55"	67"	79"	68"	77"

TOTAL APPROXIMATE WEIGHTS (IN LBS)

	31,500	34,900	38,200	43,500	46,800
HEAVIEST PIECE (MAX. WEIGHT) BASED ON EQUAL HEIGHT SECTIONS (IN LBS)	15,000	16,200	17,400	20,500	22,000

2000+ GAL. DRAWING
DATE CREATED: 11/05
UPDATED: 12/09

vaughn concrete products, inc.

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www.vaughnconcreteproducts.com

MONOLITHIC BODY NO SEAMS OR JOINTS

3" THICK FLOOR
4" THICK WALLS & NON-TRAFFIC LID

2 COMPARTMENT TANK WITH
APPROXIMATELY 60% OF CAPACITY ON
INLET SIDE

TANK IS PROVIDED WITH NOTCHES IN
SIDEWALLS FOR SLIP-IN DIVIDER WALL

WITHSTANDS UP TO 6' OF BURY, RISERS
ARE AVAILABLE FOR INLET & OUTLET

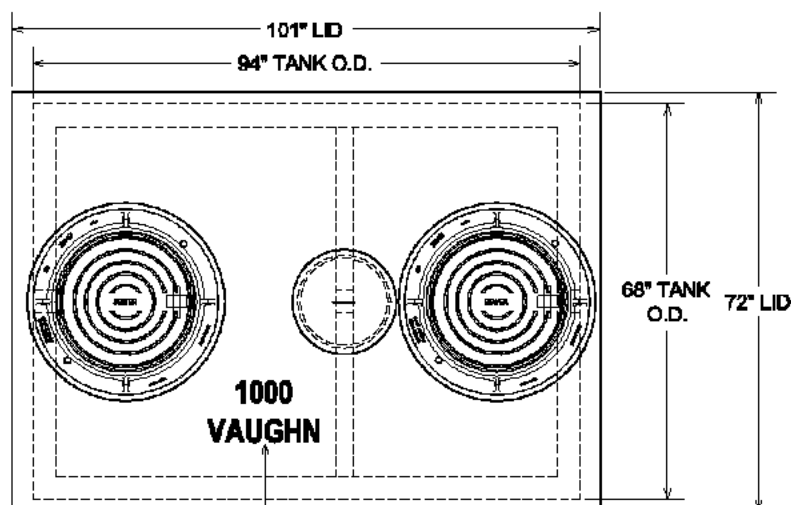
OPTIONS:

- 24" I.D. MANHOLE RISERS
- LID SECTION FOR TRAFFIC LOADINGS
- GAS TIGHT CAST IRON RINGS & COVERS

PRECAST CONCRETE GREASE INTERCEPTOR

1000 GALLON CAPACITY
FOR NON-TRAFFIC APPLICATIONS
STANDARD FOR TEXAS

IT IS THE EXCAVATOR'S OR
INSTALLER'S RESPONSIBILITY
TO REQUEST OUR
INSTALLATION GUIDELINES
PRIOR TO INSTALLING THIS
TANK



DURING PRODUCTION, "TANK SIZE" &
"VAUGHN" ARE STAMPED IN LID, "IN" &
"OUT" ARE MARKED ON TANK ENDS

PLAN VIEW

OUR STANDARD 24" DIAMETER CAST
IRON RINGS & COVERS, TYP. OF 2

24" I.D. MANHOLE RISER AS REQUIRED,
TYP. INLET/OUTLET END; AVAILABLE IN
2", 3", 4", 6", 8" & 12" HEIGHTS

CONSEAL JOINT SEALANT, OR
CONTRACTOR TO GROUT

PIPING BLOCKOUTS WITH POLYLOK
PIPE SEALS CAST IN TANK FOR INLET
& OUTLET PIPING (TYPICAL)

CONTRACTOR'S 4" PIPES

VCP SUPPLIED 4" SDR35
INLET & OUTLET TEES

TANK WEIGHTS:

- TANK LID : 2,800 LBS.
- TANK WITH DIVIDER ONLY : 8,000 LBS.
- COMPLETE INTERCEPTOR : 10,800 LBS.

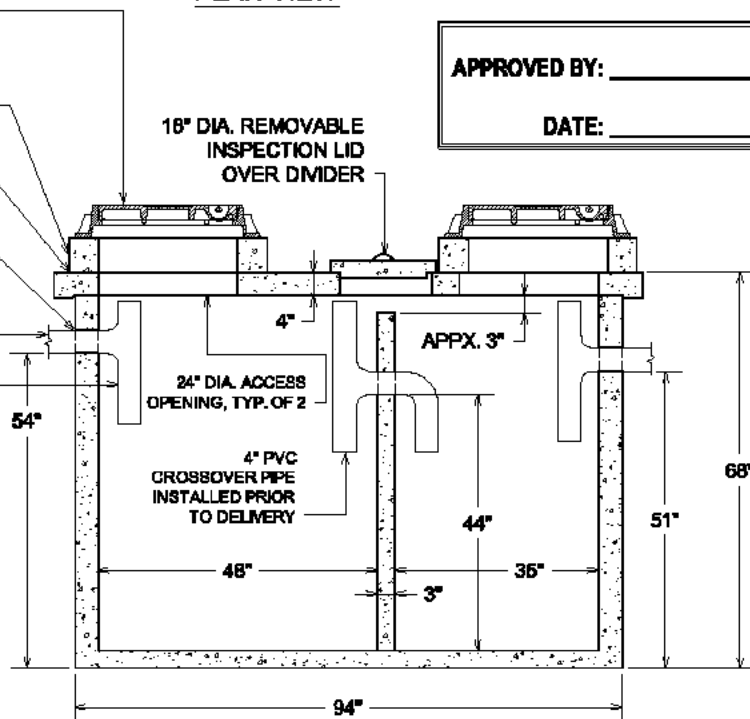
DIGGING SPECIFICATIONS:

- 54" BELOW THE INLET
- EXCAVATION: 7'-0" WIDE X 10'-0" LONG
- SEE OUR INSTALLATION GUIDELINES
PRIOR TO INSTALLING THIS TANK

CONCRETE : 4,000 P.S.I. (MINIMUM)

REINFORCING : REBAR & WELDED WIRE FABRIC

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY



SECTION VIEW

APPROVED BY: _____

DATE: _____

DRAWING IS NOT TO SCALE

1000 GAL. G1, NON-TRAFFIC-TX.DWG
DATE CREATED: 11/04
UPDATED: 12/09

vaughn concrete products, inc.

10021 Amarillo Blvd East • Amarillo, Texas 79108 • 806-374-3747, Fax 806-335-3717

www.vaughnconcreteproducts.com

PRECAST CONCRETE GREASE INTERCEPTOR

MONOLITHIC BODY NO SEAMS OR JOINTS

3" THICK FLOOR
4" THICK WALLS
8" THICK LID FOR TRAFFIC

2 COMPARTMENT TANK WITH
APPROXIMATELY 60% OF CAPACITY ON
INLET SIDE

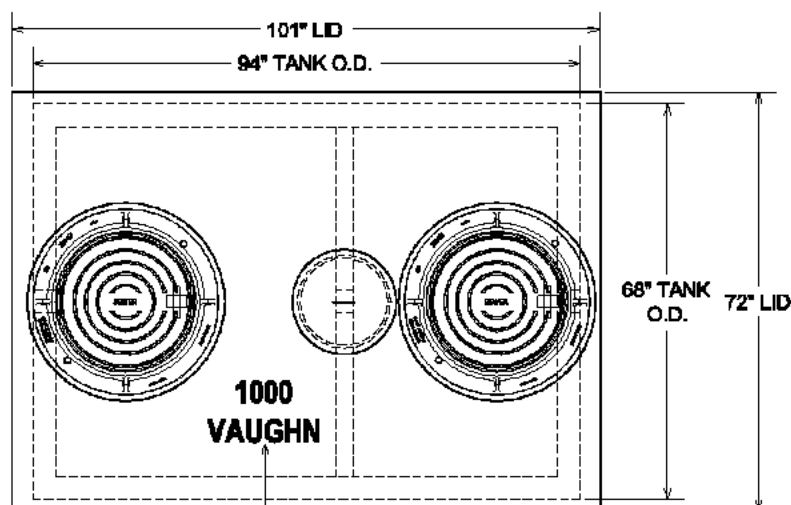
TANK IS PROVIDED WITH NOTCHES IN
SIDEWALLS FOR SLIP-IN DIVIDER WALL

WITHSTANDS UP TO 6' OF BURY, RISERS
ARE AVAILABLE FOR INLET & OUTLET

OPTIONS:

- 24" I.D. MANHOLE RISERS
- GAS TIGHT CAST IRON RINGS & COVERS

IT IS THE EXCAVATOR'S OR
INSTALLER'S RESPONSIBILITY
TO REQUEST OUR
INSTALLATION GUIDELINES
PRIOR TO INSTALLING THIS
TANK



PLAN VIEW

DURING PRODUCTION, "TANK SIZE" &
"VAUGHN" ARE STAMPED IN LID, "IN" &
"OUT" ARE MARKED ON TANK ENDS

OUR STANDARD 24" DIAMETER CAST
IRON RINGS & COVERS, TYP. OF 2

24" I.D. MANHOLE RISER AS REQUIRED,
TYP. INLET/OUTLET END; AVAILABLE IN
2", 3", 4", 6", 8" & 12" HEIGHTS

CONSEAL JOINT SEALANT, OR
CONTRACTOR TO GROUT

PIPING BLOCKOUTS WITH POLYLOK
PIPE SEALS CAST IN TANK FOR INLET
& OUTLET PIPING (TYPICAL)

CONTRACTOR'S 4" PIPES

VCP SUPPLIED 4" SDR35
INLET & OUTLET TEES

TANK WEIGHTS:

- TANK LID : 5,400 LBS.
- TANK WITH DIVIDER ONLY : 8,000 LBS.
- COMPLETE INTERCEPTOR : 13,400 LBS.

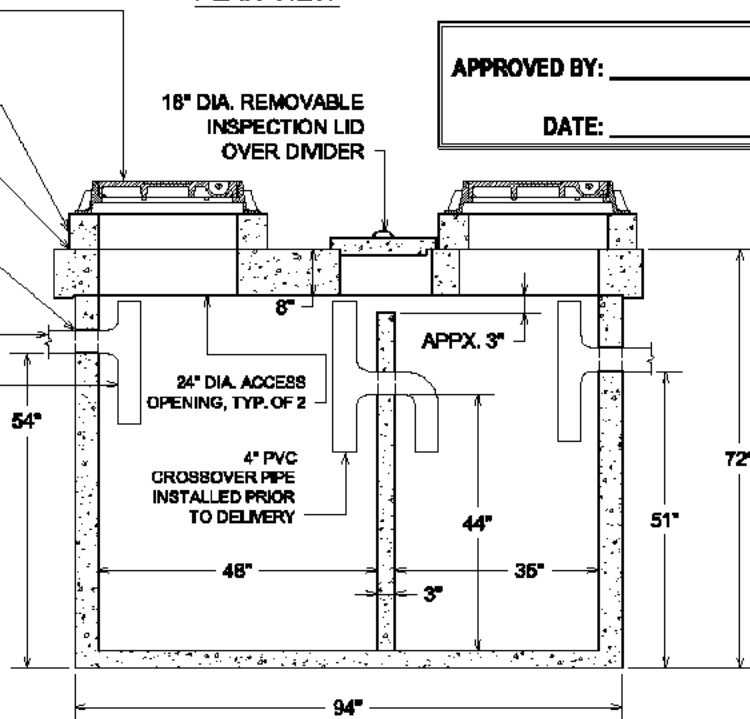
DIGGING SPECIFICATIONS:

- 54" BELOW THE INLET
- EXCAVATION: 7'-0" WIDE X 10'-0" LONG
- SEE OUR INSTALLATION GUIDELINES
PRIOR TO INSTALLING THIS TANK

CONCRETE : 4,000 P.S.I. (MINIMUM)

REINFORCING : REBAR & WELDED WIRE FABRIC

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY



SECTION VIEW

APPROVED BY: _____

DATE: _____

DRAWING IS NOT TO SCALE

vaughn concrete products, inc.

1000 GAL. GI, TRAFFIC-TX.DWG
DATE CREATED: 11/ 04
UPDATED: 12/ 09

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www.vaughnconcreteproducts.com

PRECAST CONCRETE GREASE INTERCEPTOR

1500 GALLON CAPACITY FOR NON-TRAFFIC APPLICATIONS STANDARD FOR TEXAS

GREASE INTERCEPTOR PREVENTS GREASE FROM ENTERING COMMUNITY SEWAGE COLLECTION SYSTEM & CAUSING FREQUENT LINE PLUGGING

LARGE ACCESS OPENINGS PROVIDE EASIER PUMPING & MAINTENANCE

2 COMPARTMENT TANK WITH APPROXIMATELY 60% OF CAPACITY ON INLET SIDE

WITHSTANDS UP TO 6' OF BURY, RISERS ARE AVAILABLE FOR INLET & OUTLET

OPTIONS:

- 24" I.D. MANHOLE RISERS
- ROOF OF TOP SECTION FOR TRAFFIC LOADINGS
- GAS TIGHT CAST IRON RINGS & COVERS

PIPING KNOCKOUTS 16" FROM END OF TANK TO CENTER OF KNOCKOUT TO ALLOW FOR CONCRETE TO BE BROKEN OUT TO ALLOW FOR SIDE INLET OR OUTLET PIPE AT SAME HEIGHT AS STANDARD INLET & OUTLET, TYP. OF 4

4" THICK WALLS & FLOOR, 5" THICK ROOF
*NOTE: WALLS & DIVIDER DO TAPER, THICKNESSES DO DECREASE TO ALLOW FOR FORM REMOVAL; THE AVG. WALL & DIVIDER THICKNESSES ARE LISTED

OUR STANDARD 24" DIAMETER CAST IRON RINGS & COVERS, TYP. OF 2

24" I.D. MANHOLE RISER AS REQUIRED, TYP. INLET/OUTLET END; AVAILABLE IN 2", 3", 4", 6", 8" OR 12" HEIGHTS

CONSEAL JOINT SEALANT, OR CONTRACTOR TO GROUT

PIPING BLOCKOUTS WITH POLYLOK PIPE SEALS CAST IN TANK FOR INLET & OUTLET PIPING (TYPICAL)

CONTRACTOR'S 4" PIPES

VCP SUPPLIED 4" SDR35 INLET & OUTLET TEES

CONSEAL JOINT SEALANT

TANK WEIGHTS:

- COMPLETE INTERCEPTOR : 14,000 LBS.

DIGGING SPECIFICATIONS:

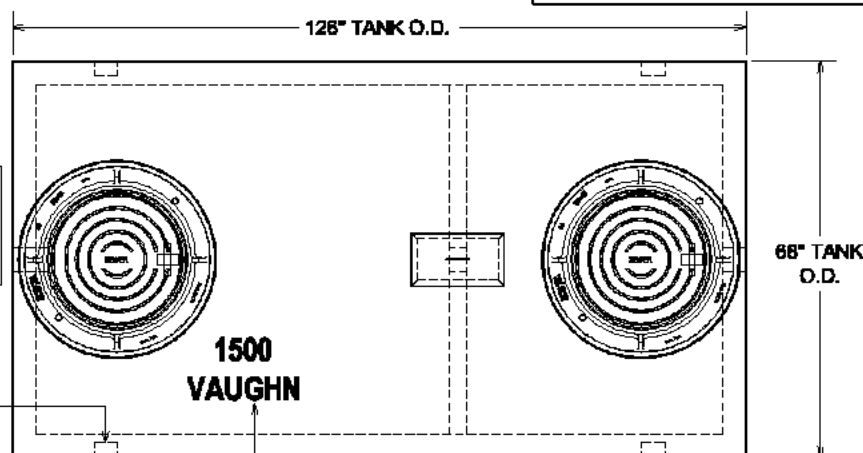
- 58" BELOW THE INLET
- EXCAVATION TO BE 6 1/2' WIDE X 14' LONG
- SEE OUR INSTALLATION GUIDELINES PRIOR TO INSTALLING THIS TANK

CONCRETE : 4,000 P.S.I. (MINIMUM)

REINFORCING : REBAR & WELDED WIRE FABRIC

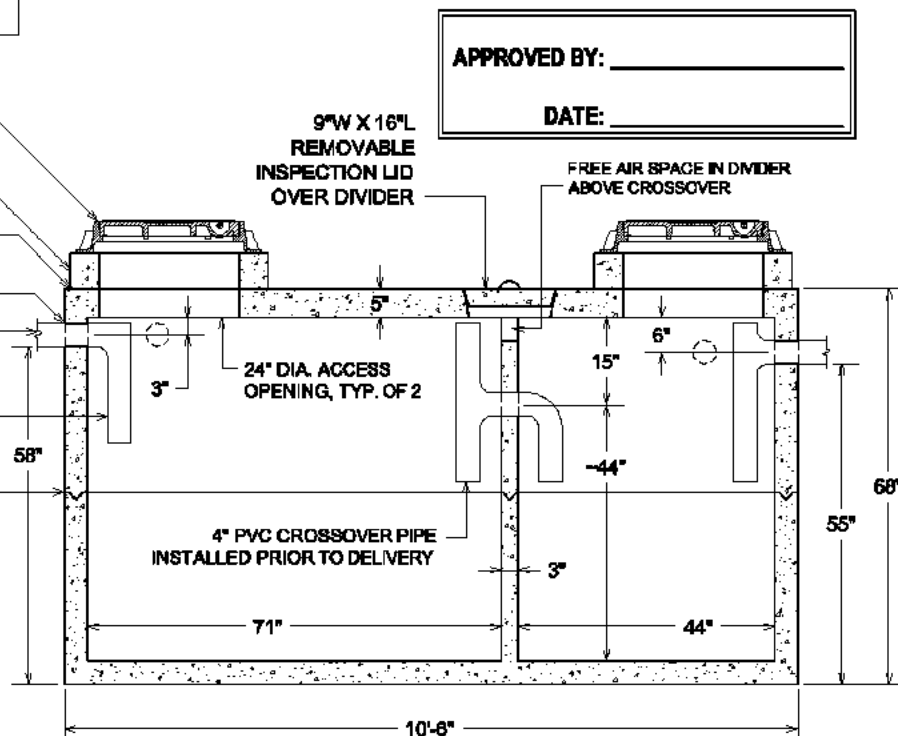
ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

IT IS THE EXCAVATOR'S OR INSTALLER'S RESPONSIBILITY TO REQUEST OUR INSTALLATION GUIDELINES PRIOR TO INSTALLING THIS TANK



PLAN VIEW

DURING PRODUCTION, "TANK SIZE" & "VAUGHN" ARE STAMPED IN LID, "IN" & "OUT" ARE MARKED ON TANK ENDS



SECTION VIEW

DRAWING IS NOT TO SCALE

1500 GAL. GI, NON-TRAFFIC-TX.DWG
DATE CREATED: 11/04
UPDATED: 12/09

vaughn concrete products, inc.

10021 Amarillo Blvd East • Amarillo, Texas 79108 • 806-374-3747, Fax 806-335-3717
www.vaughnconcreteproducts.com

PRECAST CONCRETE GREASE INTERCEPTOR

1500 GALLON CAPACITY WITH TOP FOR TRAFFIC STANDARD FOR TEXAS

GREASE INTERCEPTOR PREVENTS GREASE FROM ENTERING COMMUNITY SEWAGE COLLECTION SYSTEM & CAUSING FREQUENT LINE PLUGGING

LARGE ACCESS OPENINGS PROVIDE EASIER PUMPING & MAINTENANCE

2 COMPARTMENT TANK WITH APPROXIMATELY 60% OF CAPACITY ON INLET SIDE

WITHSTANDS UP TO 6' OF BURY, RISERS ARE AVAILABLE FOR INLET & OUTLET

OPTIONS:

- 24" I.D. MANHOLE RISERS
- GAS TIGHT CAST IRON RINGS & COVERS

PIPING KNOCKOUTS 16" FROM END OF TANK TO CENTER OF KNOCKOUT TO ALLOW FOR CONCRETE TO BE BROKEN OUT TO ALLOW FOR SIDE INLET OR OUTLET PIPE AT SAME HEIGHT AS STANDARD INLET & OUTLET, TYP. OF 4

4" THICK WALLS & FLOOR, 9" THICK ROOF
*NOTE: WALLS & DIVIDER DO TAPER, THICKNESSES DO DECREASE TO ALLOW FOR FORM REMOVAL; THE AVG. WALL & DIVIDER THICKNESSES ARE LISTED

OUR STANDARD 24" DIAMETER CAST IRON RINGS & COVERS, TYP. OF 2
24" I.D. MANHOLE RISER AS REQUIRED, TYP. INLET/OUTLET END; AVAILABLE IN 2", 3", 4", 6", 8" OR 12" HEIGHTS

CONSEAL JOINT SEALANT, OR CONTRACTOR TO GROUT

PIPING BLOCKOUTS WITH POLYLOK PIPE SEALS CAST IN TANK FOR INLET & OUTLET PIPING (TYPICAL)

CONTRACTOR'S 4" PIPES

VCP SUPPLIED 4" SDR35 INLET & OUTLET TEES

CONSEAL JOINT SEALANT

TANK WEIGHTS:

- COMPLETE INTERCEPTOR : 16,800 LBS.

DIGGING SPECIFICATIONS:

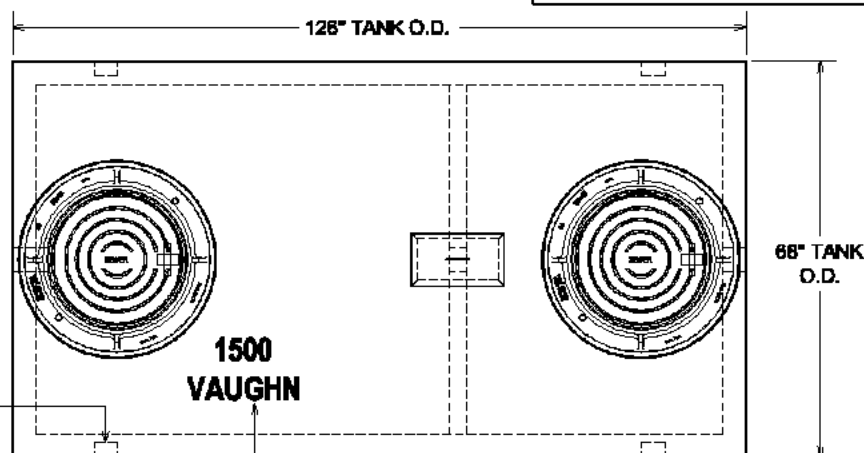
- 58" BELOW THE INLET
- EXCAVATION TO BE 6 1/2' WIDE X 14' LONG
- SEE OUR INSTALLATION GUIDELINES PRIOR TO INSTALLING THIS TANK

CONCRETE : 4,000 P.S.I. (MINIMUM)

REINFORCING : REBAR & WELDED WIRE FABRIC

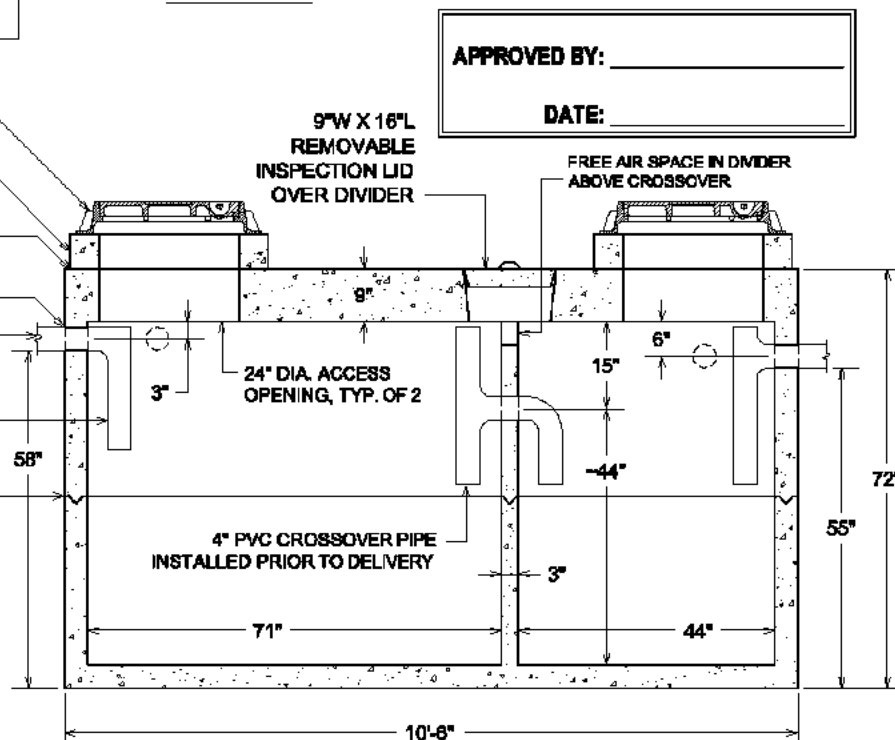
ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

IT IS THE EXCAVATOR'S OR INSTALLER'S RESPONSIBILITY TO REQUEST OUR INSTALLATION GUIDELINES PRIOR TO INSTALLING THIS TANK



PLAN VIEW

DURING PRODUCTION, "TANK SIZE" & "VAUGHN" ARE STAMPED IN LID, "IN" & "OUT" ARE MARKED ON TANK ENDS



SECTION VIEW

DRAWING IS NOT TO SCALE

1500 GAL. GI, TRAFFIC-TOPPING
DATE CREATED: 11/04
UPDATED: 12/09

vaughn concrete products, inc.

10021 Amarillo Blvd East • Amarillo, Texas 79108 • 806-374-3747, Fax 806-335-3717
www.vaughnconcreteproducts.com

PRECAST CONCRETE GREASE INTERCEPTORS

2000 GALLON & LARGER CAPACITIES

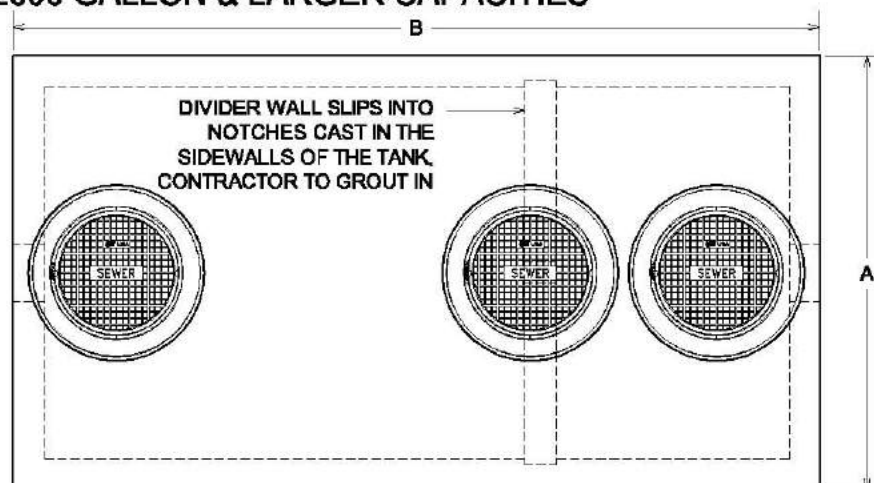
APPROVED BY : _____
DATE : _____

SELECT SIZE:

2000 _____
2500 _____
3000 _____
3500 _____
4000 _____

PLAN VIEW

IT IS THE EXCAVATOR'S OR INSTALLER'S
RESPONSIBILITY TO REQUEST OUR
INSTALLATION GUIDELINES PRIOR TO
INSTALLING THIS TANK



24" I.D. MANHOLE RISER AS
REQUIRED TO ADJUST
RINGS & COVERS TO GRADE,
TYP. EACH ACCESS

CONSEAL JOINT SEALANT

11" DIAMETER OPENING CAST IN ON
INLET & OUTLET END, OPENING
CAN BE PROVIDED WITH PRESS-IN
GASKETS FOR 4", 6" OR 8" PIPE

OUR STANDARD 24" DIAMETER CAST
IRON RINGS & COVERS, TYP. OF 3

CONSEAL JOINT SEALANT

SECTION VIEW

"G", "H", "I" & "K" DIMENSIONS:
ALL ARE TO THE PIPE INVERT

*"J" DIMENSION:
IS APPROXIMATE HEIGHT FROM BOTTOM OF
PRECAST UNIT TO BOTTOM OF 11" HOLE, NOT TO
BOTTOM OF THE PIPE INVERT

**"K" DIMENSION:
IS FOR DIGGING INFORMATION ONLY, APPROXIMATE HEIGHT
FROM BOTTOM OF PRECAST UNIT TO THE PIPE INVERT,
EXCAVATION SHOULD ALLOW 1' ON EACH SIDE OF INTERCEPTOR
FOR SLING & LIFTING BOLT REMOVAL

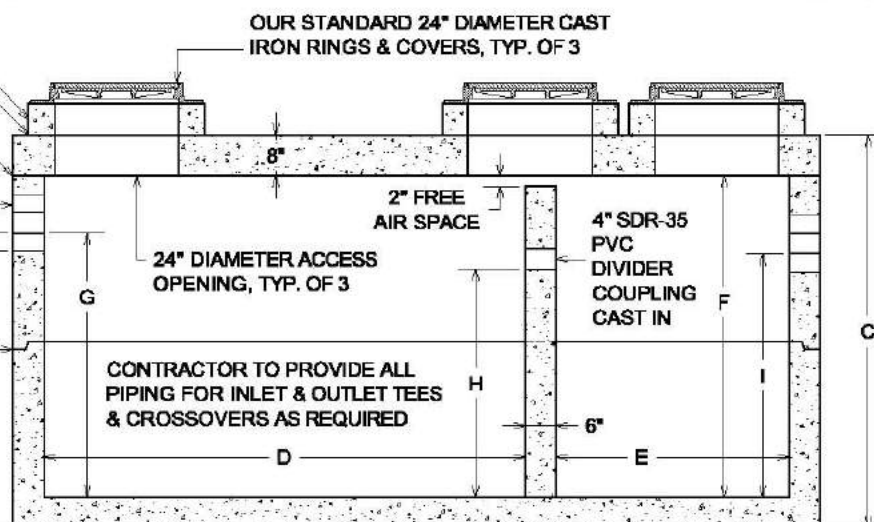
WALLS & FLOOR TO BE 6" THICK

REINFORCED FOR AASHTO HS-20-44 LOADINGS
CONCRETE: 5000 P.S.I. MINIMUM

LARGER SIZE UNITS UP TO 30,000 GALLONS ARE
AVAILABLE - CALL FOR INFORMATION

DRAWING IS NOT TO SCALE

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY



GREASE INTERCEPTOR DIMENSIONS

	2000	2500	3000	3500	4000
A	7'-0"	7'-0"	7'-0"	7'-0"	7'-0"
B	13'-0"	13'-0"	13'-0"	17'-0"	17'-0"
C	76"	88"	100"	89"	98"
D	93"	93"	93"	120"	120"
E	45"	45"	45"	66"	66"
F	62"	74"	86"	75"	84"
G (4" PIPE)	51"	63"	75"	64"	73"
G (6" PIPE)	50"	62"	74"	63"	72"
G (8" PIPE)	49"	61"	73"	62"	71"
H	44"	56"	68"	57"	66"
I (4" PIPE)	47"	59"	71"	60"	69"
*J	53-1/2"	65-1/2"	77-1/2"	66-1/2"	75-1/2"
DIGGING DEPTH INFORMATION					
**K (4" PIPE)	57"	69"	81"	70"	79"
**K (6" PIPE)	56"	68"	80"	69"	78"
**K (8" PIPE)	55"	67"	79"	68"	77"
TOTAL APPROXIMATE WEIGHTS (IN LBS)					
	31,500	34,900	38,200	43,500	46,800
HEAVIEST PIECE (MAX. WEIGHT) BASED ON EQUAL HEIGHT SECTIONS (IN LBS)					
	15,000	16,200	17,400	20,500	22,000

2000+ GAL. GLOW
DATE CREATED: 11/05
UPDATED: 12/09

vaughn concrete products, inc.

12650 Tucson Street • Henderson, Colorado 80640 • 303-659-3747, Fax 303-659-1333
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PRECAST CONCRETE SAMPLING BASIN

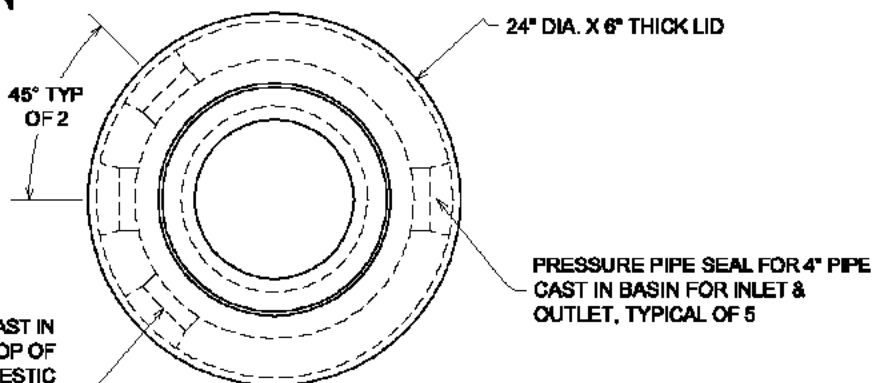
18" I.D. X 17" HIGH INSIDE DIMENSIONS
VCP ITEM #SAMPLING BASIN

PLAN VIEW

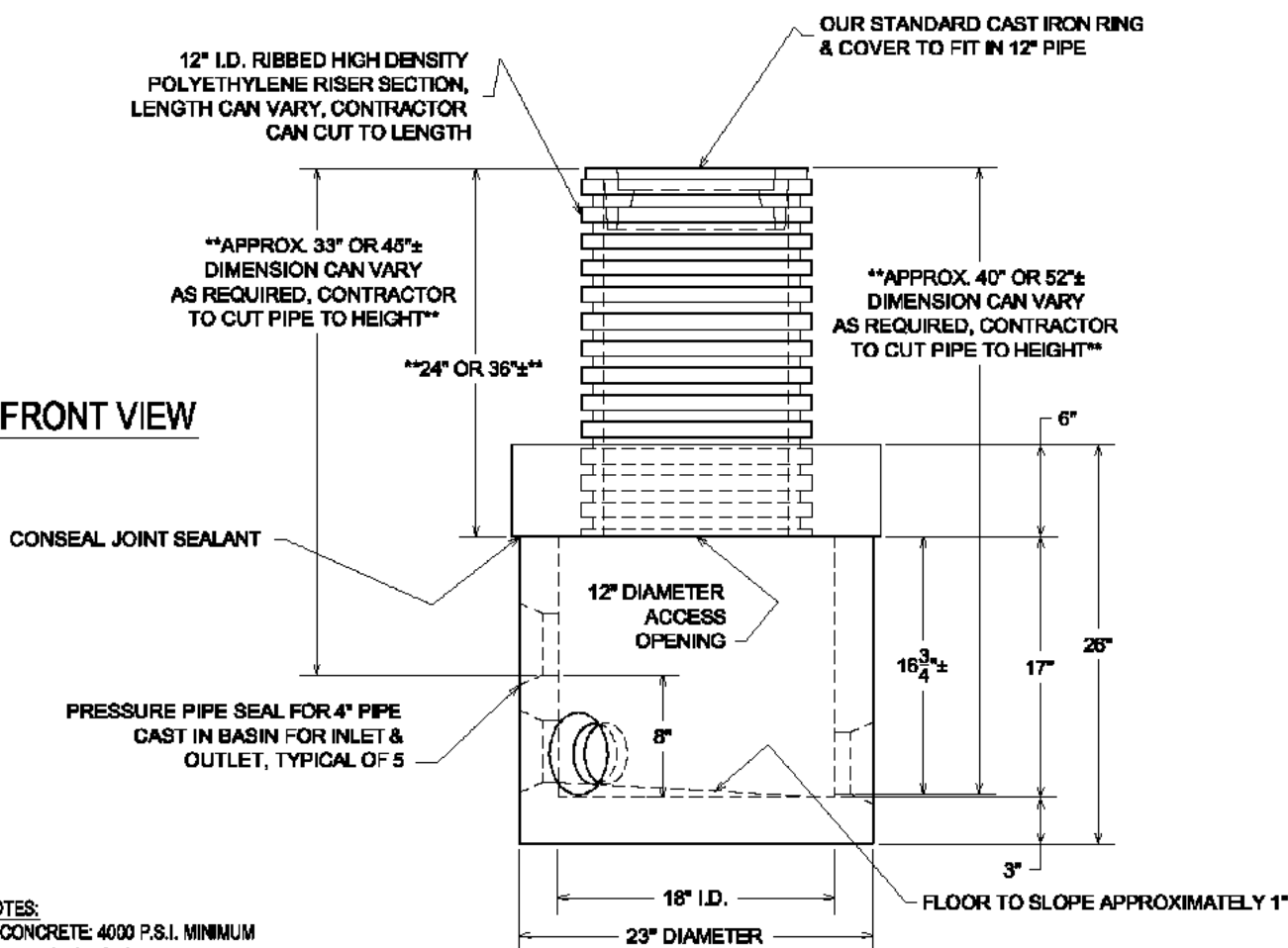
APPROXIMATE WEIGHTS:

- SAMPLING BASIN: 260 LBS.
- LID W/ HDPE: 180 LBS.
- CAST IRON RING: 33 LBS.
- CAST IRON COVER: 34 LBS.

PRESSURE PIPE SEAL FOR 4" PIPE CAST IN
@ 45° FROM THE INLET AT THE TOP OF
THE SLOPED FLOOR FOR DOMESTIC
SEWER, TYP OF 2



FRONT VIEW



NOTES:

- CONCRETE: 4000 P.S.I. MINIMUM
- REINFORCING: GRADE 60 MINIMUM
- SUITABLE FOR AASHTO HS-20-44 LOADINGS WHEN PLACED ON PROPERLY PREPARED BASE & BACKFILLED TO CREATE A SOIL ENVELOPE AROUND HDPE PIPE

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

FOR DEEPER APPLICATIONS THE 12" I.D. RIBBED HIGH DENSITY POLYETHYLENE RISER SECTION CAN BE PROVIDED WITH LENGTH AS REQUIRED & THE INLET CAN BE FIELD PLACED AND SEALED INTO THE 12" I.D. RISER SECTION

DRAWING NOT TO SCALE

SAMPLING BASIN.DWG
DATE CREATED: 11/05
UPDATED: _____

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10021 Amarillo Blvd East • Amarillo, Texas 79108 • 806-374-3747, Fax 806-335-3717

3" THICK FLOOR
4" THICK WALLS
8" THICK LID FOR TRAFFIC

2 COMPARTMENT TANK WITH
APPROXIMATELY 60% OF CAPACITY ON
INLET SIDE

**TANK IS PROVIDED WITH NOTCHES IN
SIDEWALLS FOR SLIP-IN DIVIDER WALL**

**WITHSTANDS UP TO 6' OF BURY, RISERS
ARE AVAILABLE FOR INLET & OUTLET**

- ADDITIONAL 3'X3' I.D. RISER HEIGHT
- 24" I.D. MANHOLE RISERS
- SEALANT FOR RISERS

APPROVED BY:

DATE:

OUR STANDARD 3'x3' CAST IRON
FRAME & GRATE
(OPEN FLOW AREA OF GRATE IS 750
SQ. INCHES OR 5.21 SQ. FEET)

3'x3' I.D. CAST-IN-PLACE COLLAR AS
REQUIRED TO ACHIEVE GRADE; OR
PRECAST COLLAR (RISER) IS
AVAILABLE AS A SPECIAL ORDER ITEM

**OPTIONAL CONSEAL JOINT SEALANT, OR
CONTRACTOR TO GROUT**

**PIPING BLOCKOUTS WITH POLYLOK
PIPE SEALS CAST IN TANK FOR INLET
& OUTLET PIPING (TYPICAL)**

CONTRACTOR'S 4" PIPES

**VCP SUPPLIED 4" SDR35
INLET & OUTLET TEES**

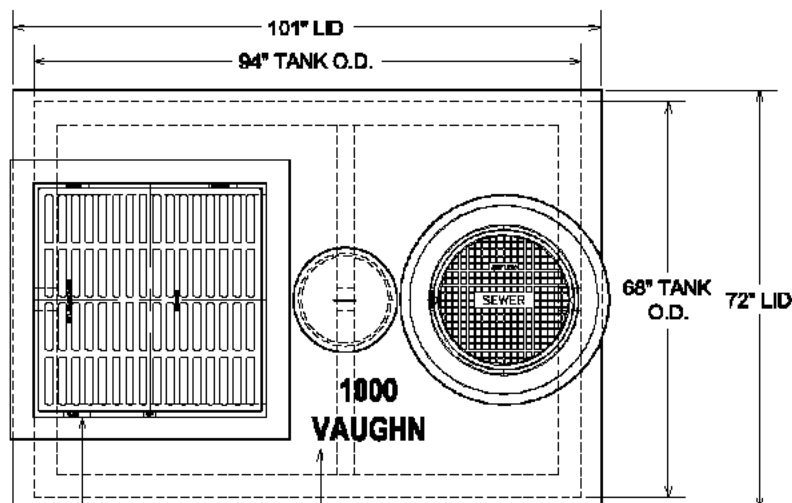
- TANK LID : 4,000 LBS.
- TANK WITH DIVIDER ONLY : 8,000 LBS.
- COMPLETE INTERCEPTOR : 12,000 LBS.

- 54" BELOW THE INLET
- EXCAVATION: 7'-0" WIDE X 10'-0" LONG
- SEE OUR INSTALLATION GUIDELINES
PRIOR TO INSTALLING THIS TANK

CONCRETE : 4,000 P.S.I. (MINIMUM)

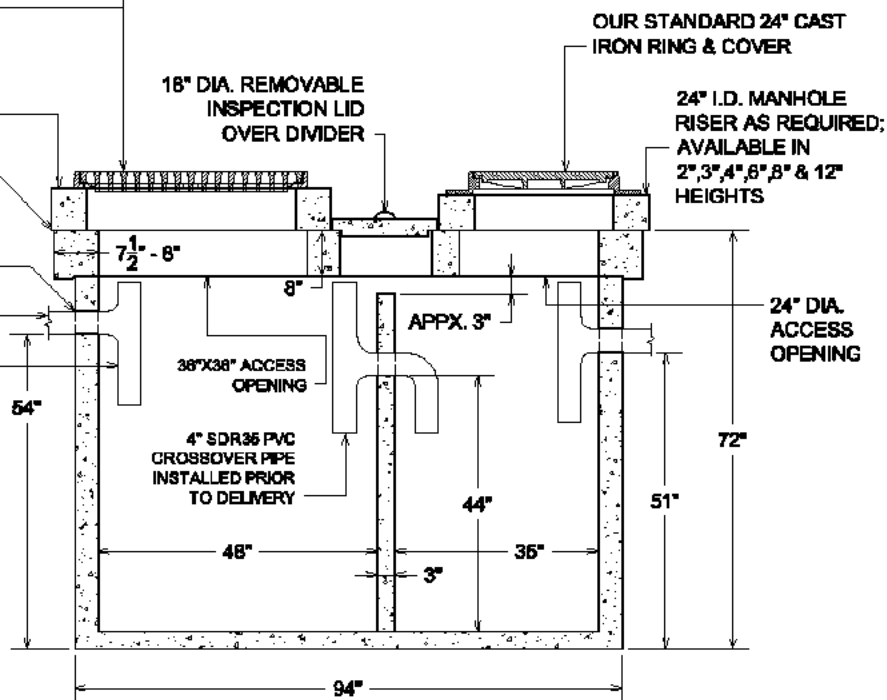
REINFORCING : REBAR & WELDED WIRE FABRIC

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY



PLAN VIEW

- DURING PRODUCTION, "TANK SIZE" & "VAUGHN" ARE STAMPED IN LID, "IN" & "OUT" ARE MARKED ON TANK ENDS



SECTION VIEW

DRAWING IS NOT TO SCALE

1000 GAL. MI. TRAFFIC.DWG
DATE CREATED: 12/ 08
UPDATED: *****



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concrete products, inc.**

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PRECAST CONCRETE SAND/OIL INTERCEPTOR

1250 GALLON CAPACITY

FOR NON-TRAFFIC APPLICATIONS

STANDARD FOR COLORADO & WYOMING

**PURCHASER IS RESPONSIBLE FOR
DETERMINING IF THIS DESIGN IS SUITABLE
FOR THEIR APPLICATION**

**LARGE ACCESS OPENINGS PROVIDE
EASIER PUMPING & MAINTENANCE**

2 COMPARTMENT TANK WITH APPROXIMATELY 60% OF CAPACITY ON INLET SIDE

WITHSTANDS UP TO 6' OF BURY,
RISERS ARE AVAILABLE FOR
INLET & OUTLET

OPTIONS:

- 24" I.D. MANHOLE RISERS
- ROOF OF TOP SECTION FOR TRAFFIC LOADINGS
- GAS TIGHT CAST IRON RINGS & COVERS

PIPING KNOCKOUTS 16" FROM END OF TANK TO CENTER OF KNOCKOUT TO ALLOW FOR CONCRETE TO BE BROKEN OUT TO ALLOW FOR SIDE INLET OR OUTLET PIPE AT SAME HEIGHT AS STANDARD INLET & OUTLET, TYP. OF 4

4" THICK WALLS & FLOOR, 5" THICK ROOF
***NOTE: WALLS & DIVIDER DO TAPER,**
THICKNESSES DO DECREASE TO ALLOW FOR
FORM REMOVAL; THE AVG. WALL & DIVIDER
THICKNESSES ARE LISTED

OUR STANDARD 24" DIAMETER CAST
IRON RINGS & COVERS, TYP. OF 2

24" I.D. MANHOLE RISER AS REQUIRED,
TYP. INLET/OUTLET END; AVAILABLE IN
2", 3", 4", 6", 8" OR 12" HEIGHTS

CONSEAL JOINT SEALANT, OR
CONTRACTOR TO GROUT

**PIPING BLOCKOUTS WITH POLYLOK
PIPE SEALS CAST IN TANK FOR INLET
& OUTLET PIPING (TYPICAL)**

CONTRACTOR'S 4" PIPES

**VCP SUPPLIED 4" SDR35
INLET & OUTLET TEES**

CONSEAL JOINT SEALANT

TANK WEIGHTS:

- COMPLETE INTERCEPTOR : 12,700 LBS.

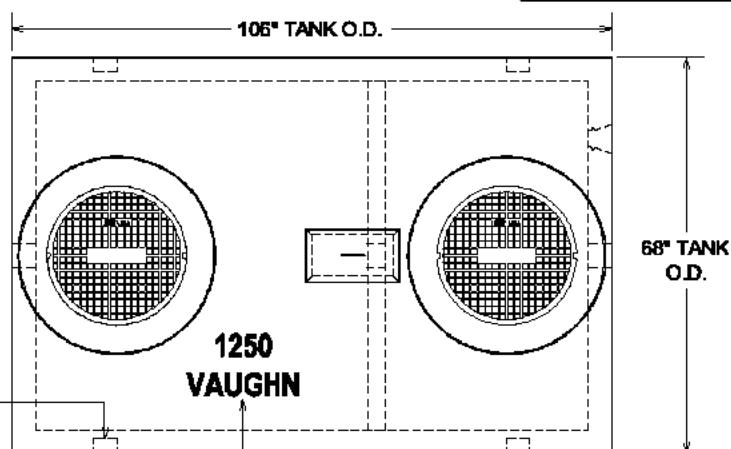
DIGGING SPECIFICATIONS:

- 54" BELOW THE INLET
 - EXCAVATION TO BE 6 1/2' WIDE X 12' LONG
 - SEE OUR INSTALLATION GUIDELINES
- PRIOR TO INSTALLING THIS TANK**

CONCRETE : 4,000 P.S.I. (MINIMUM)

REINFORCING : REBAR & WELDED WIRE FABRIC

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

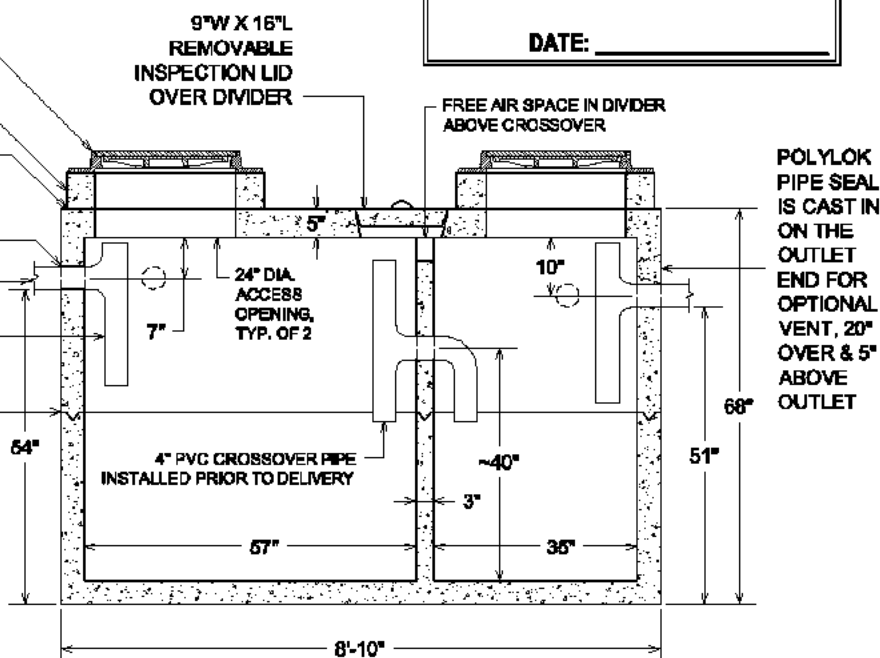


- DURING PRODUCTION, "TANK SIZE" & "VAUGHN" ARE STAMPED IN LID, "IN" & "OUT" ARE MARKED ON TANK ENDS

PLAN VIEW

APPROVED BY:

DATE:



**POLYLOK
PIPE SEAL
IS CAST IN
ON THE
OUTLET
END FOR
OPTIONAL
VENT, 20"
OVER & 5"
ABOVE
OUTLET**

SECTION VIEW

DRAWING IS NOT TO SCALE

1250 GAL. SOL, NON-TRAFFIC/DWG
DATE CREATED: 11/04
UPDATED: 12/09

**vaughn
concrete products, inc.**

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2671 South Greeley Hwy • Cheyenne, Wyoming 82007 • 307-634-0695, Fax 307-634-0694

www.vaughnconcreteproducts.com

PURCHASER IS RESPONSIBLE FOR DETERMINING IF THIS DESIGN IS SUITABLE FOR THEIR APPLICATION

LARGE ACCESS OPENINGS PROVIDE EASIER PUMPING & MAINTENANCE

2 COMPARTMENT TANK WITH APPROXIMATELY 60% OF CAPACITY ON INLET SIDE

WITHSTANDS UP TO 6' OF BURY, RISERS ARE AVAILABLE FOR INLET & OUTLET

OPTIONS:

- 24" I.D. MANHOLE RISERS
- GAS TIGHT CAST IRON RINGS & COVERS

PIPING KNOCKOUTS 16" FROM END OF TANK TO CENTER OF KNOCKOUT TO ALLOW FOR CONCRETE TO BE BROKEN OUT TO ALLOW FOR SIDE INLET OR OUTLET PIPE AT SAME HEIGHT AS STANDARD INLET & OUTLET, TYP. OF 4

4" THICK WALLS & FLOOR, 9" THICK ROOF
*NOTE: WALLS & DIVIDER DO TAPER, THICKNESSES DO DECREASE TO ALLOW FOR FORM REMOVAL; THE AVG. WALL & DIVIDER THICKNESSES ARE LISTED

OUR STANDARD 24" DIAMETER CAST IRON RINGS & COVERS, TYP. OF 2
24" I.D. MANHOLE RISER AS REQUIRED, TYP. INLET/OUTLET END; AVAILABLE IN 2", 3", 4", 6", 8" OR 12" HEIGHTS

CONSEAL JOINT SEALANT, OR CONTRACTOR TO GROUT

PIPING BLOCKOUTS WITH POLYLOK PIPE SEALS CAST IN TANK FOR INLET & OUTLET PIPING (TYPICAL)

CONTRACTOR'S 4" PIPES

VCP SUPPLIED 4" SDR35 INLET & OUTLET TEES

CONSEAL JOINT SEALANT

TANK WEIGHTS:

- COMPLETE INTERCEPTOR : 14,900 LBS.

DIGGING SPECIFICATIONS:

- 54" BELOW THE INLET
- EXCAVATION TO BE 6 1/2' WIDE X 12' LONG
- SEE OUR INSTALLATION GUIDELINES PRIOR TO INSTALLING THIS TANK

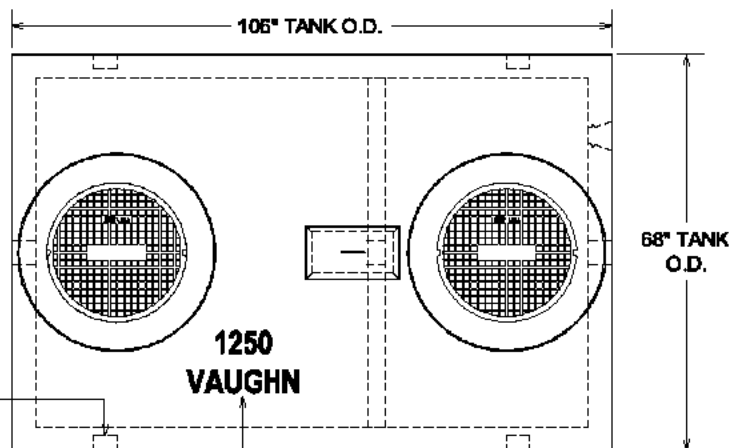
CONCRETE : 4,000 P.S.I. (MINIMUM)
REINFORCING : REBAR & WELDED WIRE FABRIC

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

PRECAST CONCRETE SAND/OIL INTERCEPTOR

1250 GALLON CAPACITY
WITH TOP FOR TRAFFIC
STANDARD FOR COLORADO & WYOMING

IT IS THE EXCAVATOR'S OR INSTALLER'S RESPONSIBILITY TO REQUEST OUR INSTALLATION GUIDELINES PRIOR TO INSTALLING THIS TANK

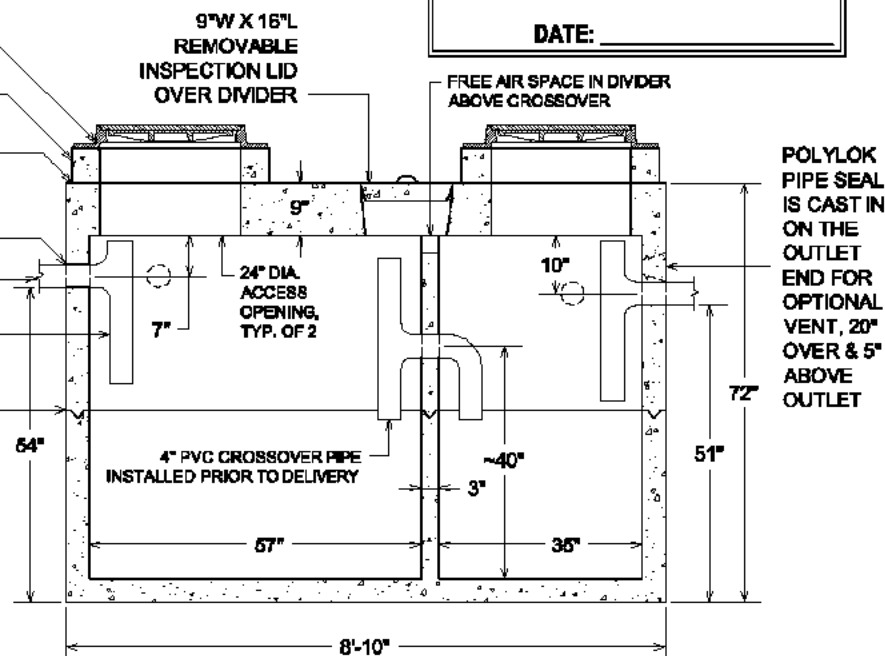


PLAN VIEW

DURING PRODUCTION, "TANK SIZE" & "VAUGHN" ARE STAMPED IN LID, "IN" & "OUT" ARE MARKED ON TANK ENDS

APPROVED BY: _____

DATE: _____



SECTION VIEW

DRAWING IS NOT TO SCALE

vaughn concrete products, inc.

1250 GAL. SOI. TRAFFIC.ONG
DATE CREATED: 11/04
UPDATED: 12/09

12650 Tucson Street • Henderson, Colorado 80640 • 303-659-3747, Fax 303-659-1333
2671 South Greeley Hwy • Cheyenne, Wyoming 82007 • 307-634-0695, Fax 307-634-0694

www.vaughnconcreteproducts.com

PURCHASER IS RESPONSIBLE FOR DETERMINING IF THIS DESIGN IS SUITABLE FOR THEIR APPLICATION

LARGE ACCESS OPENINGS PROVIDE EASIER PUMPING & MAINTENANCE

2 COMPARTMENT TANK WITH APPROXIMATELY 60% OF CAPACITY ON INLET SIDE

WITHSTANDS UP TO 6' OF BURY, RISERS ARE AVAILABLE FOR INLET & OUTLET

OPTIONS:

- 24" I.D. MANHOLE RISERS
- ROOF OF TOP SECTION FOR TRAFFIC LOADINGS
- GAS TIGHT CAST IRON RINGS & COVERS

PIPING KNOCKOUTS 16" FROM END OF TANK TO CENTER OF KNOCKOUT TO ALLOW FOR CONCRETE TO BE BROKEN OUT TO ALLOW FOR SIDE INLET OR OUTLET PIPE AT SAME HEIGHT AS STANDARD INLET & OUTLET, TYP. OF 4

4" THICK WALLS & FLOOR, 5" THICK ROOF
*NOTE: WALLS & DIVIDER DO TAPER, THICKNESSES DO DECREASE TO ALLOW FOR FORM REMOVAL; THE AVG. WALL & DIVIDER THICKNESSES ARE LISTED

OUR STANDARD 24" DIAMETER CAST IRON RINGS & COVERS, TYP. OF 2

24" I.D. MANHOLE RISER AS REQUIRED, TYP. INLET/OUTLET END; AVAILABLE IN 2", 3", 4", 6", 8" OR 12" HEIGHTS

CONSEAL JOINT SEALANT, OR CONTRACTOR TO GROUT

PIPING BLOCKOUTS WITH POLYLOK PIPE SEALS CAST IN TANK FOR INLET & OUTLET PIPING (TYPICAL)

CONTRACTOR'S 4" PIPES

VCP SUPPLIED 4" SDR35 INLET & OUTLET TEES

CONSEAL JOINT SEALANT

TANK WEIGHTS:

- COMPLETE INTERCEPTOR : 14,000 LBS.

DIGGING SPECIFICATIONS:

- 58" BELOW THE INLET
- EXCAVATION TO BE 6 1/2' WIDE X 14' LONG
- SEE OUR INSTALLATION GUIDELINES PRIOR TO INSTALLING THIS TANK

CONCRETE : 4,000 P.S.I. (MINIMUM)

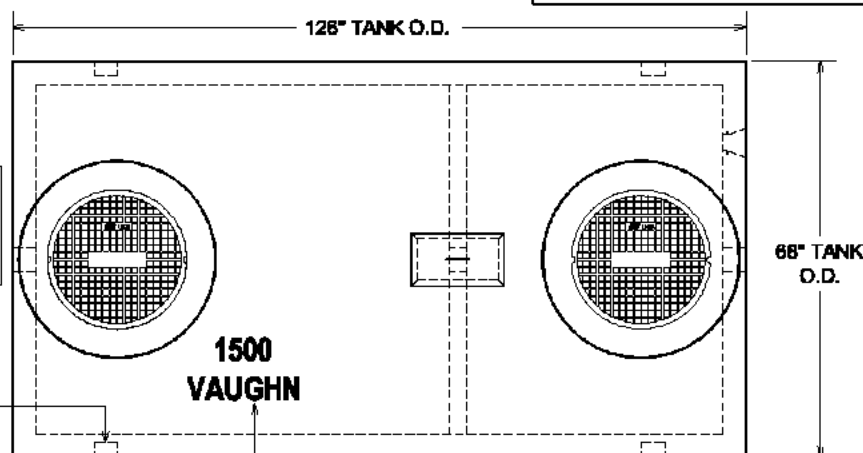
REINFORCING : REBAR & WELDED WIRE FABRIC

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

PRECAST CONCRETE SAND/OIL INTERCEPTOR

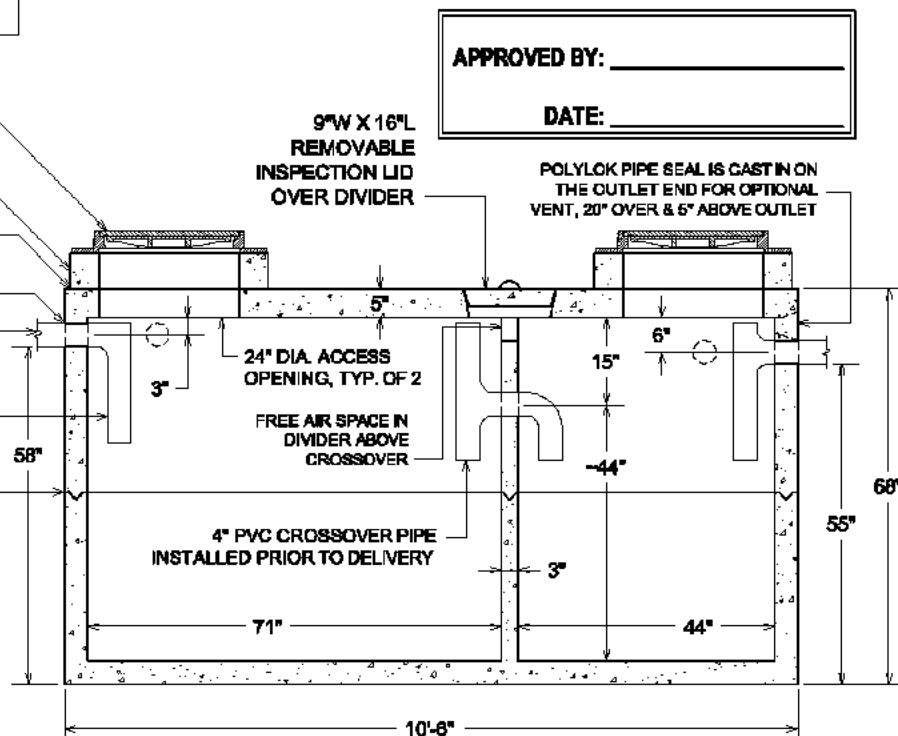
1500 GALLON CAPACITY FOR NON-TRAFFIC APPLICATIONS STANDARD FOR COLORADO & WYOMING

IT IS THE EXCAVATOR'S OR INSTALLER'S RESPONSIBILITY TO REQUEST OUR INSTALLATION GUIDELINES PRIOR TO INSTALLING THIS TANK



PLAN VIEW

DURING PRODUCTION, "TANK SIZE" & "VAUGHN" ARE STAMPED IN LID, "IN" & "OUT" ARE MARKED ON TANK ENDS



SECTION VIEW

DRAWING IS NOT TO SCALE

1500 GAL. SOI, NON-TRAFFIC.DWG
DATE CREATED: 11/ 04
UPDATED: 12/ 09

vaughn concrete products, inc.

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CONTRACTOR'S 4" PIPES

VCP SUPPLIED 4" SDR35 INLET & OUTLET TEES

CONSEAL JOINT SEALANT

TANK WEIGHTS:

- COMPLETE INTERCEPTOR : 16,800 LBS.

DIGGING SPECIFICATIONS:

- 58" BELOW THE INLET
- EXCAVATION TO BE 6 1/2' WIDE X 14' LONG
- SEE OUR INSTALLATION GUIDELINES PRIOR TO INSTALLING THIS TANK

CONCRETE : 4,000 P.S.I. (MINIMUM)

REINFORCING : REBAR & WELDED WIRE FABRIC

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

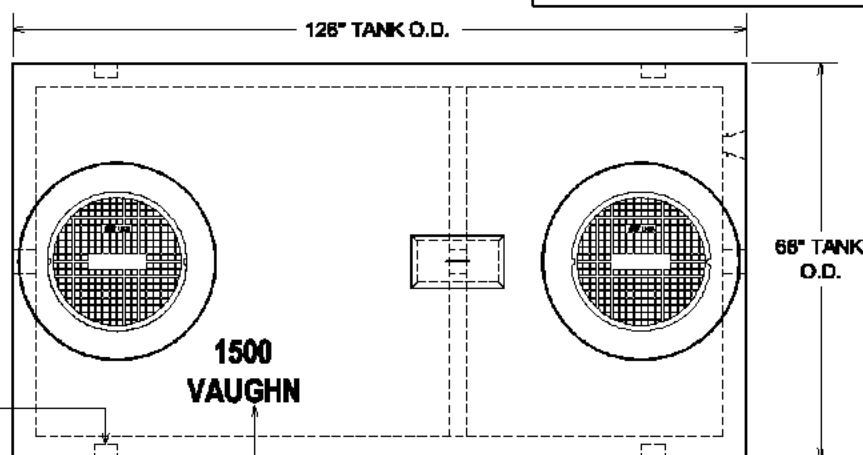
SAND/OIL INTERCEPTOR

1500 GALLON CAPACITY

WITH TOP FOR TRAFFIC

STANDARD FOR COLORADO & WYOMING

IT IS THE EXCAVATOR'S OR INSTALLER'S RESPONSIBILITY TO REQUEST OUR INSTALLATION GUIDELINES PRIOR TO INSTALLING THIS TANK

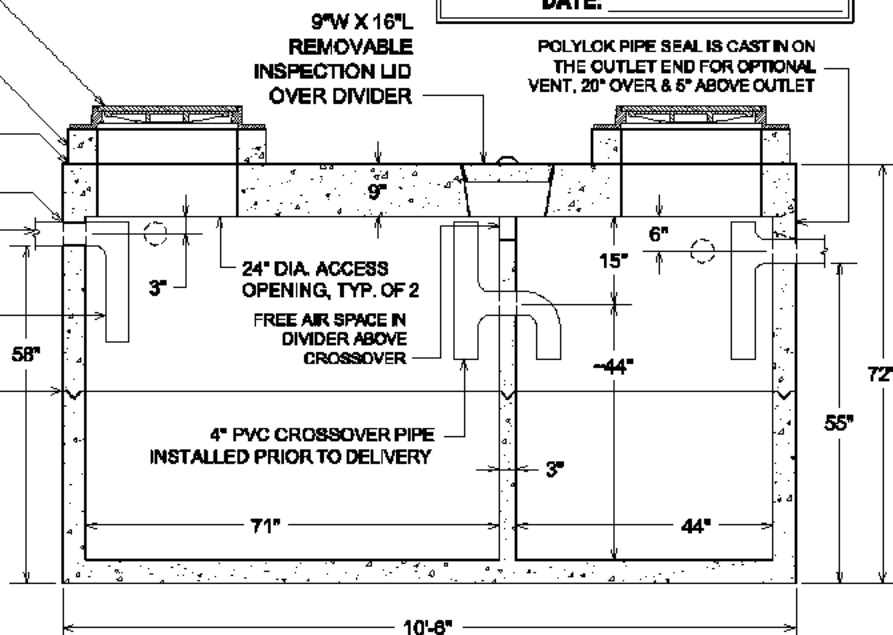


PLAN VIEW

DURING PRODUCTION, "TANK SIZE" & "VAUGHN" ARE STAMPED IN LID, "IN" & "OUT" ARE MARKED ON TANK ENDS

APPROVED BY: _____

DATE: _____



SECTION VIEW

DRAWING IS NOT TO SCALE

vaughn concrete products, inc.

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2671 South Greeley Hwy • Cheyenne, Wyoming 82007 • 307-634-0695, Fax 307-634-0694

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1500 GAL. SOI. TRAFFIC.DWG
DATE CREATED: 11/04
UPDATED: 12/09

PRECAST CONCRETE SAND/OIL INTERCEPTORS

2000 GALLON & LARGER CAPACITIES

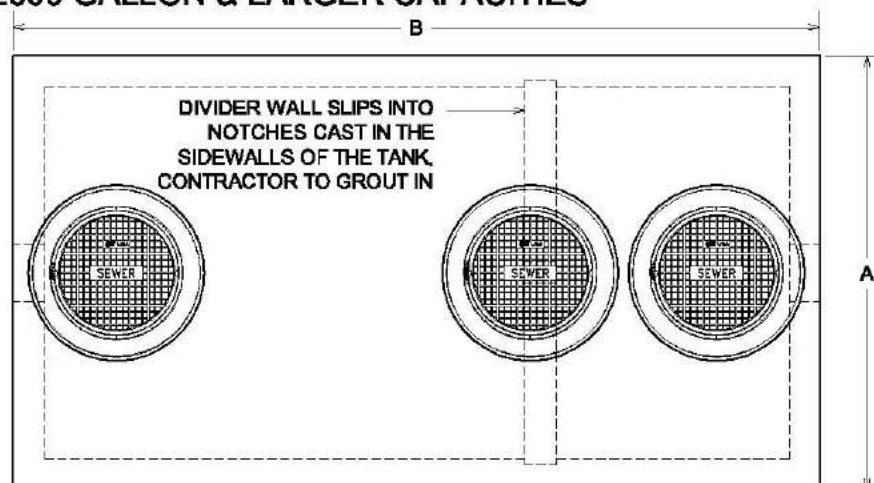
APPROVED BY : _____
DATE : _____

SELECT SIZE:

2000 _____
2500 _____
3000 _____
3500 _____
4000 _____

PLAN VIEW

IT IS THE EXCAVATOR'S OR INSTALLER'S
RESPONSIBILITY TO REQUEST OUR
INSTALLATION GUIDELINES PRIOR TO
INSTALLING THIS TANK



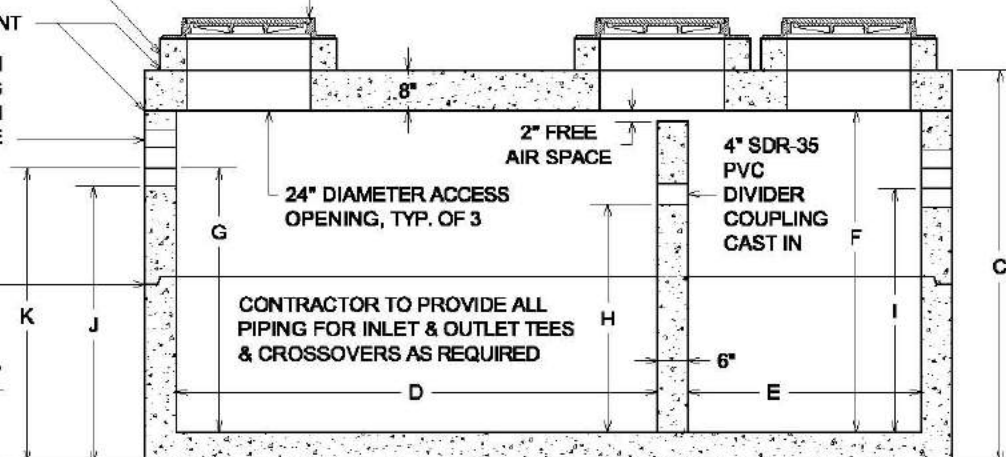
24" I.D. MANHOLE RISER AS
REQUIRED TO ADJUST
RINGS & COVERS TO GRADE,
TYP. EACH ACCESS

OUR STANDARD 24" DIAMETER CAST
IRON RINGS & COVERS, TYP. OF 3

CONSEAL JOINT SEALANT
11" DIAMETER OPENING CAST IN ON
INLET & OUTLET END, OPENING
CAN BE PROVIDED WITH PRESS-IN
GASKETS FOR 4", 6" OR 8" PIPE

CONSEAL JOINT SEALANT

SECTION VIEW



"G", "H", "I" & "K" DIMENSIONS:
ALL ARE TO THE PIPE INVERT

**"J" DIMENSION:
IS APPROXIMATE HEIGHT FROM BOTTOM OF
PRECAST UNIT TO BOTTOM OF 11" HOLE, NOT TO
BOTTOM OF THE PIPE INVERT

**"K" DIMENSION:
IS FOR DIGGING INFORMATION ONLY, APPROXIMATE HEIGHT
FROM BOTTOM OF PRECAST UNIT TO THE PIPE INVERT,
EXCAVATION SHOULD ALLOW 1' ON EACH SIDE OF INTERCEPTOR
FOR SLING & LIFTING BOLT REMOVAL

WALLS & FLOOR TO BE 6" THICK

REINFORCED FOR AASHTO HS-20-44 LOADINGS
CONCRETE: 5000 P.S.I. MINIMUM

LARGER SIZE UNITS UP TO 30,000 GALLONS ARE
AVAILABLE - CALL FOR INFORMATION

DRAWING IS NOT TO SCALE

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

SAND/OIL INTERCEPTOR DIMENSIONS

	2000	2500	3000	3500	4000
A	7'-0"	7'-0"	7'-0"	7'-0"	7'-0"
B	13'-0"	13'-0"	13'-0"	17'-0"	17'-0"
C	76"	88"	100"	89"	98"
D	93"	93"	93"	120"	120"
E	45"	45"	45"	66"	66"
F	62"	74"	86"	75"	84"
G (4" PIPE)	51"	63"	75"	64"	73"
G (6" PIPE)	50"	62"	74"	63"	72"
G (8" PIPE)	49"	61"	73"	62"	71"
H	44"	56"	68"	57"	66"
I (4" PIPE)	47"	59"	71"	60"	69"
*J	53-1/2"	65-1/2"	77-1/2"	66-1/2"	75-1/2"
DIGGING DEPTH INFORMATION					
**K (4" PIPE)	57"	69"	81"	70"	79"
**K (6" PIPE)	56"	68"	80"	69"	78"
**K (8" PIPE)	55"	67"	79"	68"	77"
TOTAL APPROXIMATE WEIGHTS (IN LBS)					
	31,500	34,900	38,200	43,500	46,800
HEAVIEST PIECE (MAX. WEIGHT) BASED ON EQUAL HEIGHT SECTIONS (IN LBS)					
	15,000	16,200	17,400	20,500	22,000

2000+ GAL S.O.I. I.D.
DATE CREATED: 11/05
UPDATED: 12/09

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10021 Amarillo Blvd East • Amarillo, Texas 79108 • 806-374-3747, Fax 806-335-3717
www.vaughnconcreteproducts.com

PRECAST CONCRETE SAND/OIL INTERCEPTOR

MONOLITHIC BODY NO SEAMS OR JOINTS

3" THICK FLOOR
4" THICK WALLS & NON-TRAFFIC LID

2 COMPARTMENT TANK WITH
APPROXIMATELY 60% OF CAPACITY ON
INLET SIDE

TANK IS PROVIDED WITH NOTCHES IN
SIDEWALLS FOR SLIP-IN DIVIDER WALL

WITHSTANDS UP TO 6' OF BURY, RISERS
ARE AVAILABLE FOR INLET & OUTLET

OPTIONS:

- 24" I.D. MANHOLE RISERS
- LID SECTION FOR TRAFFIC LOADINGS
- GAS TIGHT CAST IRON RINGS & COVERS
- 18" HDPE RISER PIPE FOR INSPECTION
OPENING OVER DIVIDER WALL
- 18" DIAMETER CAST IRON RING &
COVER TO SET OVER INSPECTION
OPENING

OUR STANDARD 24" DIAMETER CAST
IRON RINGS & COVERS, TYP. OF 2

24" I.D. MANHOLE RISER AS REQUIRED,
TYP. INLET/OUTLET END; AVAILABLE IN
2", 3", 4", 6", 8" & 12" HEIGHTS

CONSEAL JOINT SEALANT, OR
CONTRACTOR TO GROUT

PIPING BLOCKOUTS WITH POLYLOK
PIPE SEALS CAST IN TANK FOR INLET
& OUTLET PIPING (TYPICAL)

CONTRACTOR'S 4" PIPES

VCP SUPPLIED 4" SDR35 INLET &
OUTLET TEES & CROSSOVER NOT TO
EXCEED 18" OFF OF INSIDE FLOOR

TANK WEIGHTS:

- TANK LID : 2,800 LBS.
- TANK WITH DIVIDER ONLY : 8,000 LBS.
- COMPLETE INTERCEPTOR : 10,800 LBS.

DIGGING SPECIFICATIONS:

- 54" BELOW THE INLET
- EXCAVATION: 7'-0" WIDE X 10'-0" LONG
- SEE OUR INSTALLATION GUIDELINES
PRIOR TO INSTALLING THIS TANK

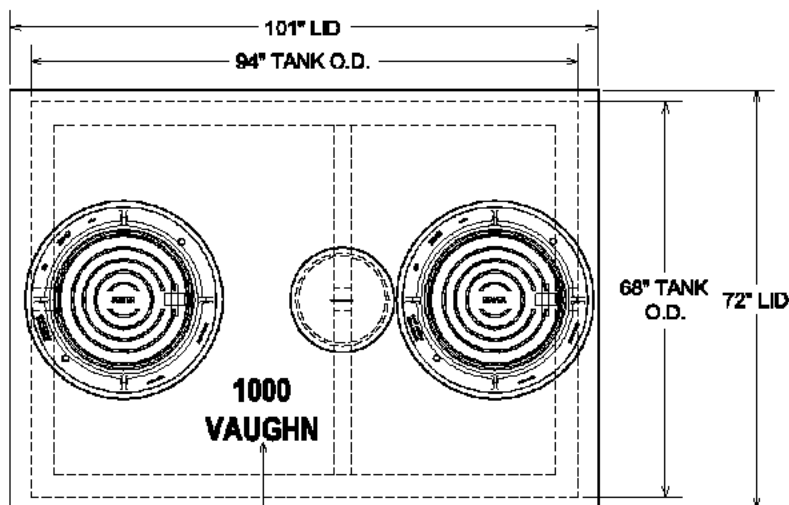
CONCRETE : 4,000 P.S.I. (MINIMUM)

REINFORCING : REBAR & WELDED WIRE FABRIC

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

1000 GALLON CAPACITY
FOR NON-TRAFFIC APPLICATIONS
STANDARD FOR LUBBOCK & ODESSA, TX

IT IS THE EXCAVATOR'S OR
INSTALLER'S RESPONSIBILITY
TO REQUEST OUR
INSTALLATION GUIDELINES
PRIOR TO INSTALLING THIS
TANK

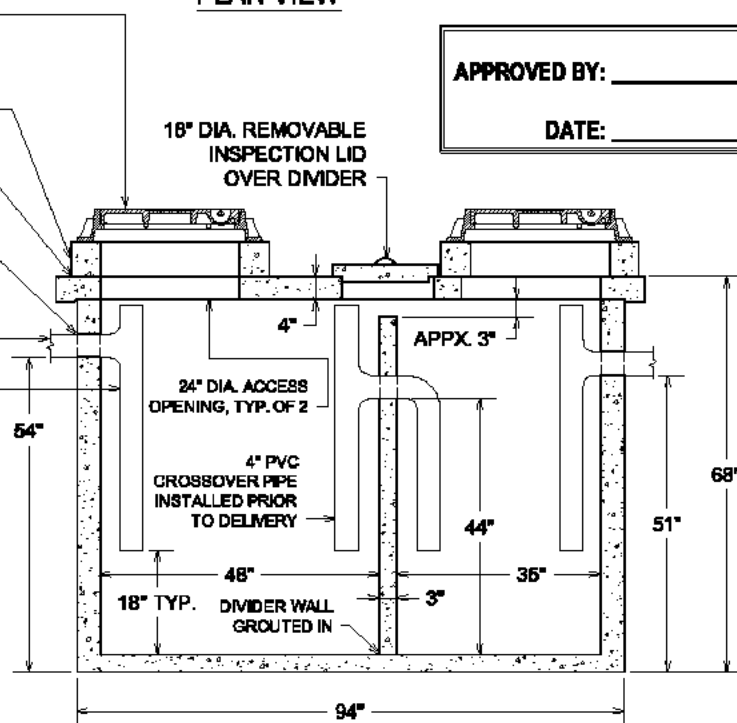


DURING PRODUCTION, "TANK SIZE" &
"VAUGHN" ARE STAMPED IN LID, "IN" &
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PLAN VIEW

APPROVED BY: _____

DATE: _____



SECTION VIEW

DRAWING IS NOT TO SCALE

1000 GAL. SOI, NON-TRAFFIC-LUBBOCK.DWG
DATE CREATED: 11/ 04
UPDATED: 12/ 09

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MONOLITHIC BODY NO SEAMS OR JOINTS

3" THICK FLOOR
4" THICK WALLS
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2 COMPARTMENT TANK WITH
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PIPE SEALS CAST IN TANK FOR INLET
& OUTLET PIPING (TYPICAL)

CONTRACTOR'S 4" PIPES

VCP SUPPLIED 4" SDR35 INLET & OUTLET
TEES & CROSSOVER NOT TO EXCEED 18"
OFF OF INSIDE FLOOR

TANK WEIGHTS:

- TANK LID : 5,400 LBS.
- TANK WITH DIVIDER ONLY : 8,000 LBS.
- COMPLETE INTERCEPTOR : 13,400 LBS.

DIGGING SPECIFICATIONS:

- 54" BELOW THE INLET
- EXCAVATION: 7'-0" WIDE X 10'-0" LONG
- SEE OUR INSTALLATION GUIDELINES
PRIOR TO INSTALLING THIS TANK

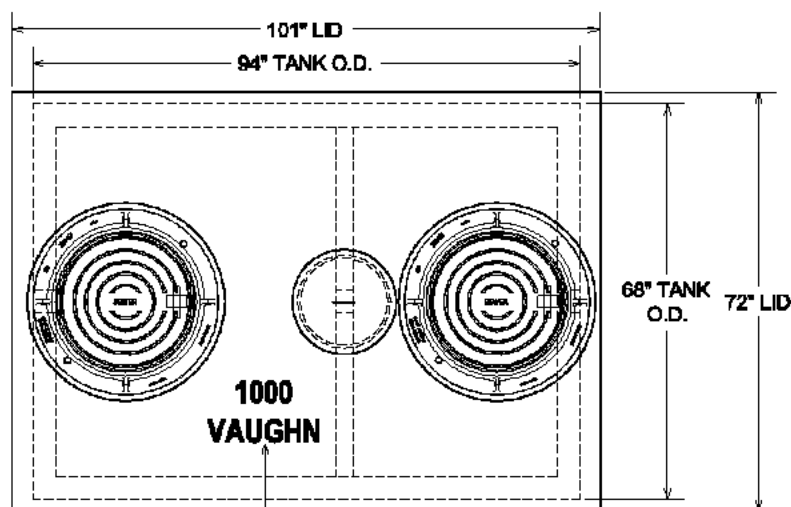
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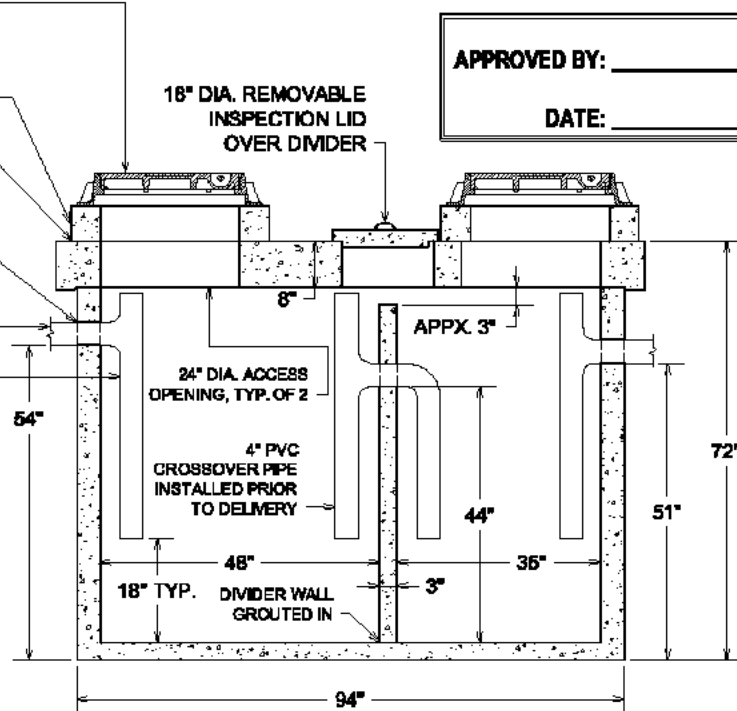
1000 GALLON CAPACITY
WITH LID FOR TRAFFIC
STANDARD FOR LUBBOCK & ODESSA, TX

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DURING PRODUCTION, "TANK SIZE" &
"VAUGHN" ARE STAMPED IN LID, "IN" &
"OUT" ARE MARKED ON TANK ENDS

PLAN VIEW



SECTION VIEW

APPROVED BY: _____

DATE: _____

DRAWING IS NOT TO SCALE

1000 GAL SOI, TRAFFIC-LUBBOCK.DWG
DATE CREATED: 11/ 04
UPDATED: 12/ 09

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www.vaughnconcreteproducts.com

PRECAST CONCRETE SAND/OIL INTERCEPTOR

1500 GALLON CAPACITY
FOR NON-TRAFFIC APPLICATIONS
STANDARD FOR LUBBOCK & ODESSA, TX

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2 COMPARTMENT TANK WITH
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WITHSTANDS UP TO 6' OF BURY,
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OPTIONS:

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- GAS TIGHT CAST IRON RINGS & COVERS

PIPING KNOCKOUTS 16" FROM END OF
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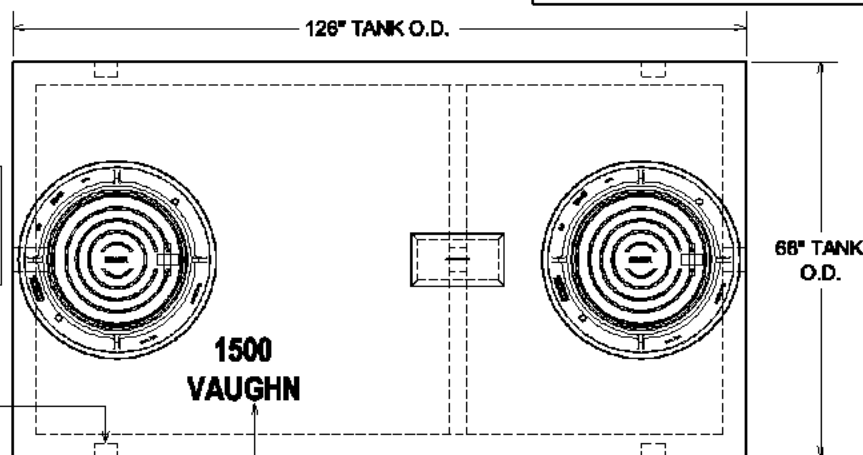
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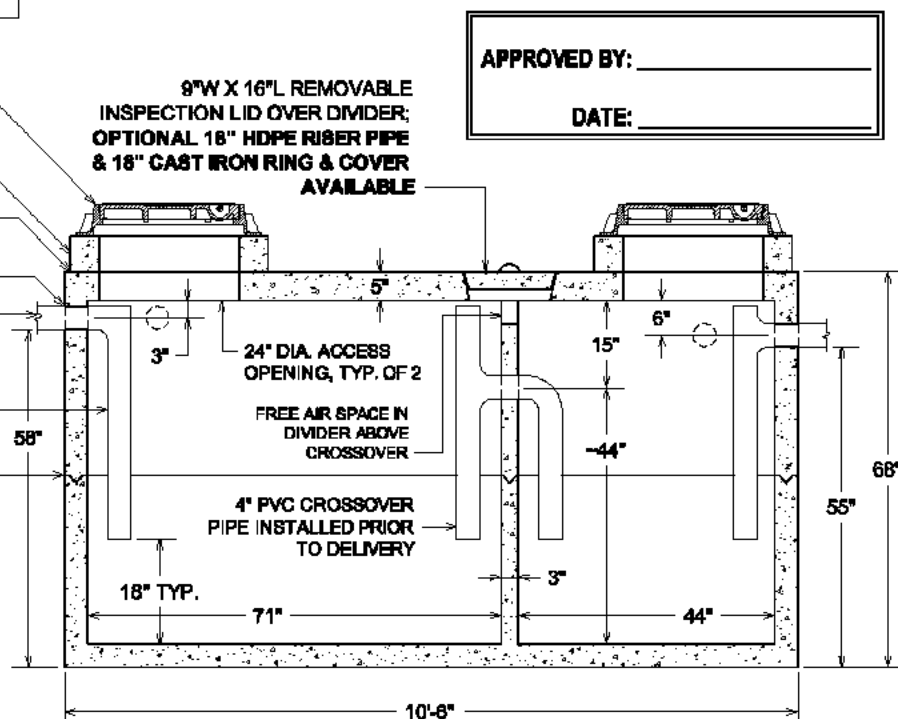
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PLAN VIEW

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SECTION VIEW

APPROVED BY: _____

DATE: _____

DRAWING IS NOT TO SCALE

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PRECAST CONCRETE SAND/OIL INTERCEPTOR

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CONSEAL JOINT SEALANT

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DIGGING SPECIFICATIONS:

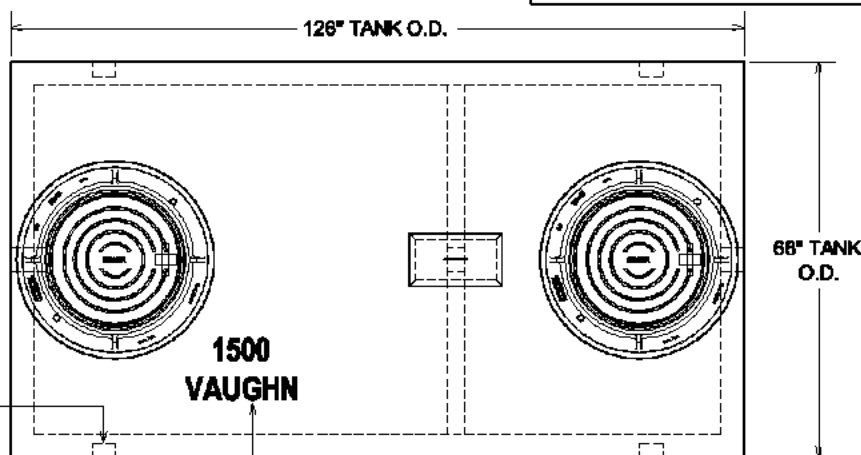
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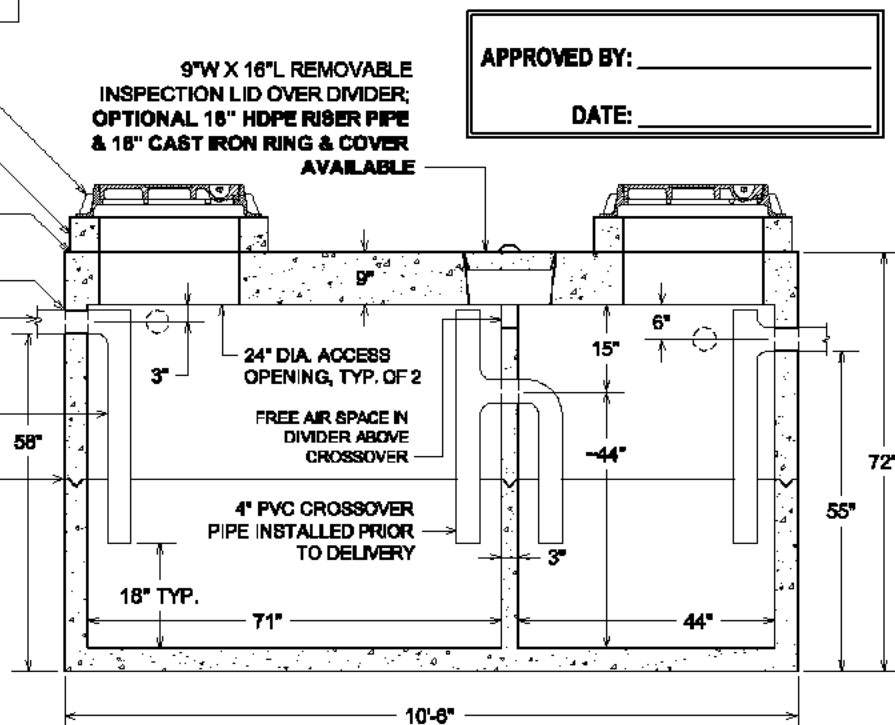
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PLAN VIEW

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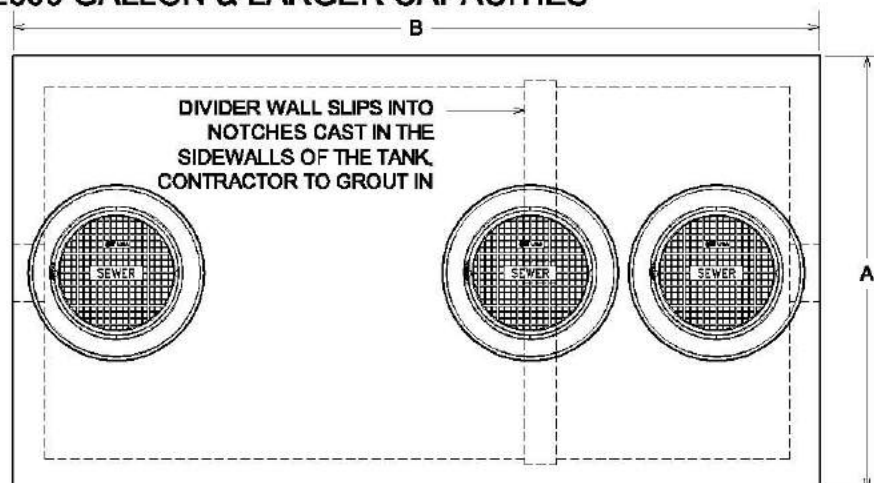
APPROVED BY : _____
DATE : _____

SELECT SIZE:

2000 _____
2500 _____
3000 _____
3500 _____
4000 _____

PLAN VIEW

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INSTALLING THIS TANK



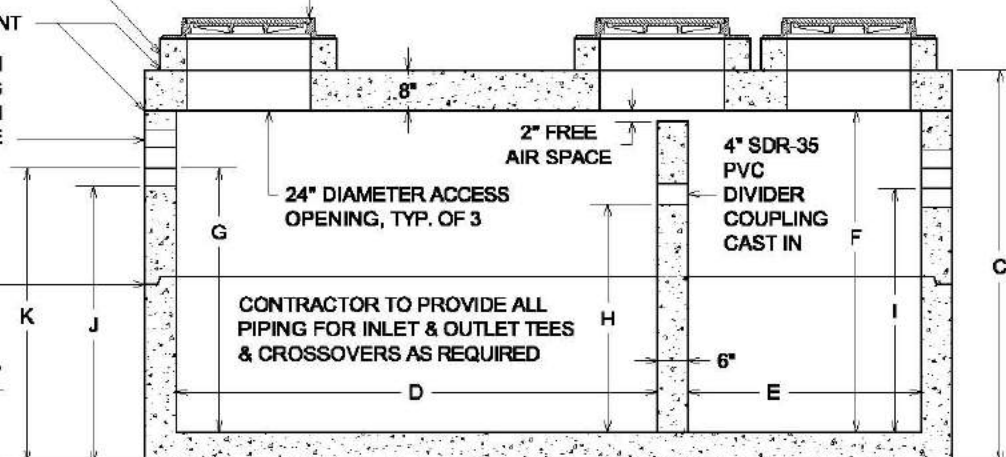
24" I.D. MANHOLE RISER AS
REQUIRED TO ADJUST
RINGS & COVERS TO GRADE,
TYP. EACH ACCESS

OUR STANDARD 24" DIAMETER CAST
IRON RINGS & COVERS, TYP. OF 3

CONSEAL JOINT SEALANT
11" DIAMETER OPENING CAST IN ON
INLET & OUTLET END, OPENING
CAN BE PROVIDED WITH PRESS-IN
GASKETS FOR 4", 6" OR 8" PIPE

CONSEAL JOINT SEALANT

SECTION VIEW



"G", "H", "I" & "K" DIMENSIONS:
ALL ARE TO THE PIPE INVERT

**"J" DIMENSION:
IS APPROXIMATE HEIGHT FROM BOTTOM OF
PRECAST UNIT TO BOTTOM OF 11" HOLE, NOT TO
BOTTOM OF THE PIPE INVERT

**"K" DIMENSION:
IS FOR DIGGING INFORMATION ONLY, APPROXIMATE HEIGHT
FROM BOTTOM OF PRECAST UNIT TO THE PIPE INVERT,
EXCAVATION SHOULD ALLOW 1' ON EACH SIDE OF INTERCEPTOR
FOR SLING & LIFTING BOLT REMOVAL

WALLS & FLOOR TO BE 6" THICK

REINFORCED FOR AASHTO HS-20-44 LOADINGS
CONCRETE: 5000 P.S.I. MINIMUM

LARGER SIZE UNITS UP TO 30,000 GALLONS ARE
AVAILABLE - CALL FOR INFORMATION

DRAWING IS NOT TO SCALE

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

SAND/OIL INTERCEPTOR DIMENSIONS

	2000	2500	3000	3500	4000
A	7'-0"	7'-0"	7'-0"	7'-0"	7'-0"
B	13'-0"	13'-0"	13'-0"	17'-0"	17'-0"
C	76"	88"	100"	89"	98"
D	93"	93"	93"	120"	120"
E	45"	45"	45"	66"	66"
F	62"	74"	86"	75"	84"
G (4" PIPE)	51"	63"	75"	64"	73"
G (6" PIPE)	50"	62"	74"	63"	72"
G (8" PIPE)	49"	61"	73"	62"	71"
H	44"	56"	68"	57"	66"
I (4" PIPE)	47"	59"	71"	60"	69"
*J	53-1/2"	65-1/2"	77-1/2"	66-1/2"	75-1/2"
DIGGING DEPTH INFORMATION					
**K (4" PIPE)	57"	69"	81"	70"	79"
**K (6" PIPE)	56"	68"	80"	69"	78"
**K (8" PIPE)	55"	67"	79"	68"	77"
TOTAL APPROXIMATE WEIGHTS (IN LBS)					
	31,500	34,900	38,200	43,500	46,800
HEAVIEST PIECE (MAX. WEIGHT) BASED ON EQUAL HEIGHT SECTIONS (IN LBS)					
	15,000	16,200	17,400	20,500	22,000

2000+ GAL S.O.I. I.D.
DATE CREATED: 11/05
UPDATED: 12/09

vaughn concrete products, inc.

12650 Tucson Street • Henderson, Colorado 80640 • 303-659-3747, Fax 303-659-1333
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10021 Amarillo Blvd East • Amarillo, Texas 79108 • 806-374-3747, Fax 806-335-3717
www.vaughnconcreteproducts.com

PRECAST CONCRETE SAND/OIL INTERCEPTOR

MONOLITHIC BODY NO SEAMS OR JOINTS

3" THICK FLOOR
4" THICK WALLS & NON-TRAFFIC LID

2 COMPARTMENT TANK WITH
APPROXIMATELY 60% OF CAPACITY ON
INLET SIDE

TANK IS PROVIDED WITH NOTCHES IN
SIDEWALLS FOR SLIP-IN DIVIDER WALL

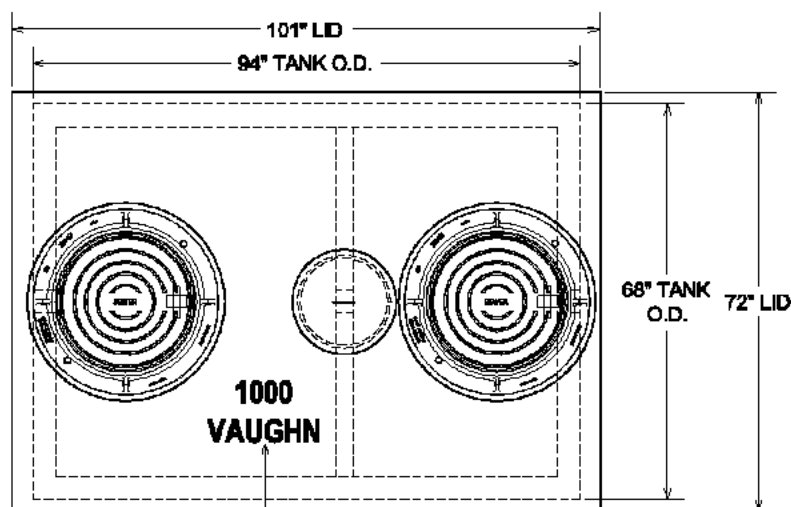
WITHSTANDS UP TO 6' OF BURY, RISERS
ARE AVAILABLE FOR INLET & OUTLET

OPTIONS:

- 24" I.D. MANHOLE RISERS
- LID SECTION FOR TRAFFIC LOADINGS
- GAS TIGHT CAST IRON RINGS & COVERS

1000 GALLON CAPACITY
FOR NON-TRAFFIC APPLICATIONS
STANDARD FOR TEXAS

IT IS THE EXCAVATOR'S OR
INSTALLER'S RESPONSIBILITY
TO REQUEST OUR
INSTALLATION GUIDELINES
PRIOR TO INSTALLING THIS
TANK



DURING PRODUCTION, "TANK SIZE" &
"VAUGHN" ARE STAMPED IN LID, "IN" &
"OUT" ARE MARKED ON TANK ENDS

PLAN VIEW

OUR STANDARD 24" DIAMETER CAST
IRON RINGS & COVERS, TYP. OF 2

24" I.D. MANHOLE RISER AS REQUIRED,
TYP. INLET/OUTLET END; AVAILABLE IN
2", 3", 4", 6", 8" & 12" HEIGHTS

CONSEAL JOINT SEALANT, OR
CONTRACTOR TO GROUT

PIPING BLOCKOUTS WITH POLYLOK
PIPE SEALS CAST IN TANK FOR INLET
& OUTLET PIPING (TYPICAL)

CONTRACTOR'S 4" PIPES

VCP SUPPLIED 4" SDR35
INLET & OUTLET TEES

TANK WEIGHTS:

- TANK LID : 2,800 LBS.
- TANK WITH DIVIDER ONLY : 8,000 LBS.
- COMPLETE INTERCEPTOR : 10,800 LBS.

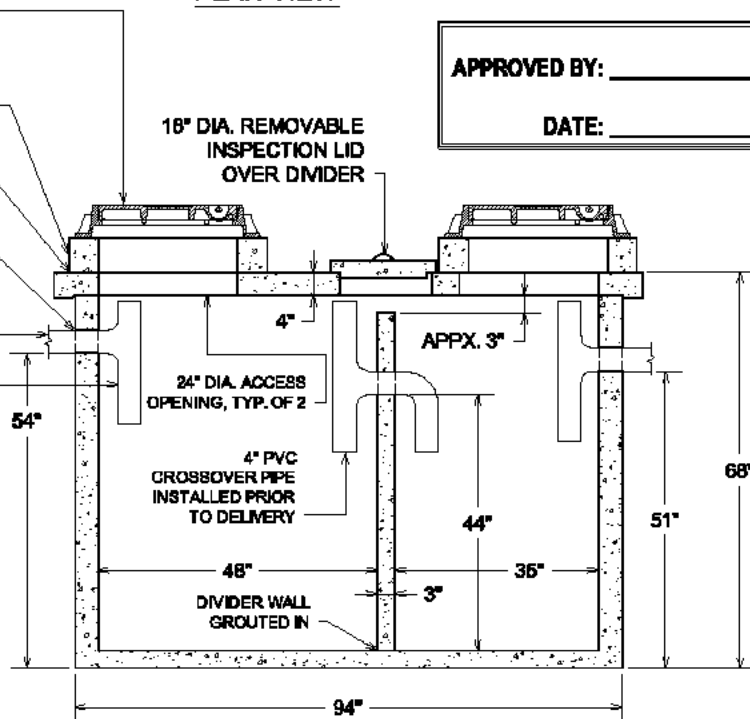
DIGGING SPECIFICATIONS:

- 54" BELOW THE INLET
- EXCAVATION: 7'-0" WIDE X 10'-0" LONG
- SEE OUR INSTALLATION GUIDELINES
PRIOR TO INSTALLING THIS TANK

CONCRETE : 4,000 P.S.I. (MINIMUM)

REINFORCING : REBAR & WELDED WIRE FABRIC

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY



SECTION VIEW

APPROVED BY: _____

DATE: _____

DRAWING IS NOT TO SCALE

1000 GAL. SOI, NON-TRAFFIC-TX.DWG
DATE CREATED: 11/ 04
UPDATED: 12/ 09

vaughn concrete products, inc.

10021 Amarillo Blvd East • Amarillo, Texas 79108 • 806-374-3747, Fax 806-335-3717

www.vaughnconcreteproducts.com

PRECAST CONCRETE SAND/OIL INTERCEPTOR

MONOLITHIC BODY NO SEAMS OR JOINTS

3" THICK FLOOR
4" THICK WALLS
8" THICK LID FOR TRAFFIC

2 COMPARTMENT TANK WITH
APPROXIMATELY 60% OF CAPACITY ON
INLET SIDE

TANK IS PROVIDED WITH NOTCHES IN
SIDEWALLS FOR SLIP-IN DIVIDER WALL

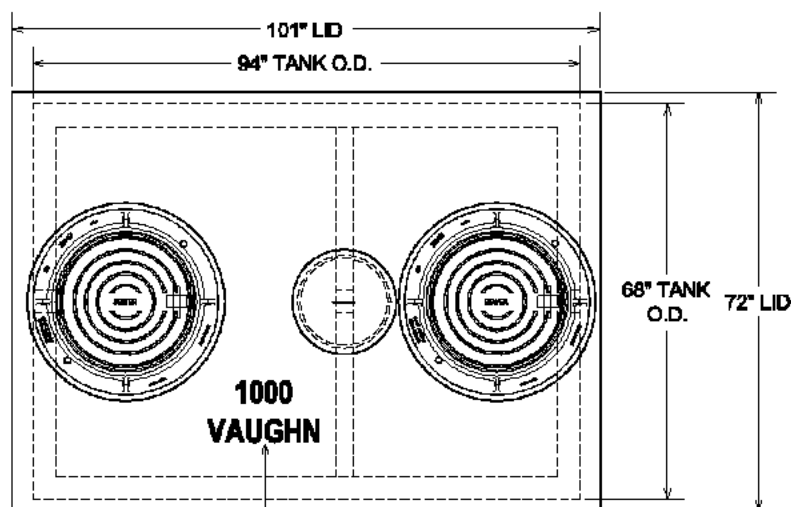
WITHSTANDS UP TO 6' OF BURY, RISERS
ARE AVAILABLE FOR INLET & OUTLET

OPTIONS:

- 24" I.D. MANHOLE RISERS
- GAS TIGHT CAST IRON RINGS & COVERS

1000 GALLON CAPACITY
WITH LID FOR TRAFFIC
STANDARD FOR TEXAS

IT IS THE EXCAVATOR'S OR
INSTALLER'S RESPONSIBILITY
TO REQUEST OUR
INSTALLATION GUIDELINES
PRIOR TO INSTALLING THIS
TANK



DURING PRODUCTION, "TANK SIZE" &
"VAUGHN" ARE STAMPED IN LID, "IN" &
"OUT" ARE MARKED ON TANK ENDS

PLAN VIEW

OUR STANDARD 24" DIAMETER CAST
IRON RINGS & COVERS, TYP. OF 2

24" I.D. MANHOLE RISER AS REQUIRED,
TYP. INLET/OUTLET END; AVAILABLE IN
2", 3", 4", 6", 8" & 12" HEIGHTS

CONSEAL JOINT SEALANT, OR
CONTRACTOR TO GROUT

PIPING BLOCKOUTS WITH POLYLOK
PIPE SEALS CAST IN TANK FOR INLET
& OUTLET PIPING (TYPICAL)

CONTRACTOR'S 4" PIPES

VCP SUPPLIED 4" SDR35
INLET & OUTLET TEES

TANK WEIGHTS:

- TANK LID : 5,400 LBS.
- TANK WITH DIVIDER ONLY : 8,000 LBS.
- COMPLETE INTERCEPTOR : 13,400 LBS.

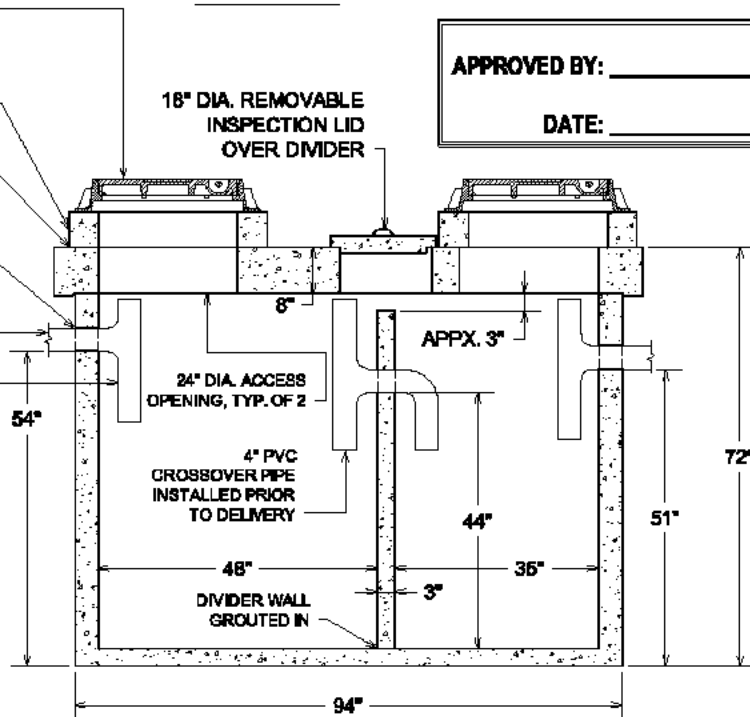
DIGGING SPECIFICATIONS:

- 54" BELOW THE INLET
- EXCAVATION: 7'-0" WIDE X 10'-0" LONG
- SEE OUR INSTALLATION GUIDELINES
PRIOR TO INSTALLING THIS TANK

CONCRETE : 4,000 P.S.I. (MINIMUM)

REINFORCING : REBAR & WELDED WIRE FABRIC

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY



SECTION VIEW

APPROVED BY: _____

DATE: _____

DRAWING IS NOT TO SCALE

1000 GAL. SOI, TRAFFIC-TXIDING
DATE CREATED: 11/04
UPDATED: 12/09

vaughn concrete products, inc.

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www.vaughnconcreteproducts.com

PRECAST CONCRETE SAND/OIL INTERCEPTOR

1500 GALLON CAPACITY
FOR NON-TRAFFIC APPLICATIONS
STANDARD FOR TEXAS

PURCHASER IS RESPONSIBLE FOR
DETERMINING IF THIS DESIGN IS SUITABLE
FOR THEIR APPLICATION

LARGE ACCESS OPENINGS PROVIDE
EASIER PUMPING & MAINTENANCE

2 COMPARTMENT TANK WITH
APPROXIMATELY 60% OF
CAPACITY ON INLET SIDE

WITHSTANDS UP TO 6' OF BURY,
RISERS ARE AVAILABLE FOR
INLET & OUTLET

OPTIONS:

- 24" I.D. MANHOLE RISERS
- ROOF OF TOP SECTION FOR TRAFFIC LOADINGS
- GAS TIGHT CAST IRON RINGS & COVERS

PIPING KNOCKOUTS 16" FROM END OF
TANK TO CENTER OF KNOCKOUT TO
ALLOW FOR CONCRETE TO BE BROKEN
OUT TO ALLOW FOR SIDE INLET OR
OUTLET PIPE AT SAME HEIGHT AS
STANDARD INLET & OUTLET, TYP. OF 4

4" THICK WALLS & FLOOR, 5" THICK ROOF
*NOTE: WALLS & DIVIDER DO TAPER,
THICKNESSES DO DECREASE TO ALLOW FOR
FORM REMOVAL; THE AVG. WALL & DIVIDER
THICKNESSES ARE LISTED

OUR STANDARD 24" DIAMETER CAST
IRON RINGS & COVERS, TYP. OF 2

24" I.D. MANHOLE RISER AS REQUIRED,
TYP. INLET/OUTLET END; AVAILABLE IN
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CONSEAL JOINT SEALANT, OR
CONTRACTOR TO GROUT

PIPING BLOCKOUTS WITH POLYLOK
PIPE SEALS CAST IN TANK FOR INLET
& OUTLET PIPING (TYPICAL)

CONTRACTOR'S 4" PIPES

VCP SUPPLIED 4" SDR35
INLET & OUTLET TEES

CONSEAL JOINT SEALANT

TANK WEIGHTS:

- COMPLETE INTERCEPTOR : 14,000 LBS.

DIGGING SPECIFICATIONS:

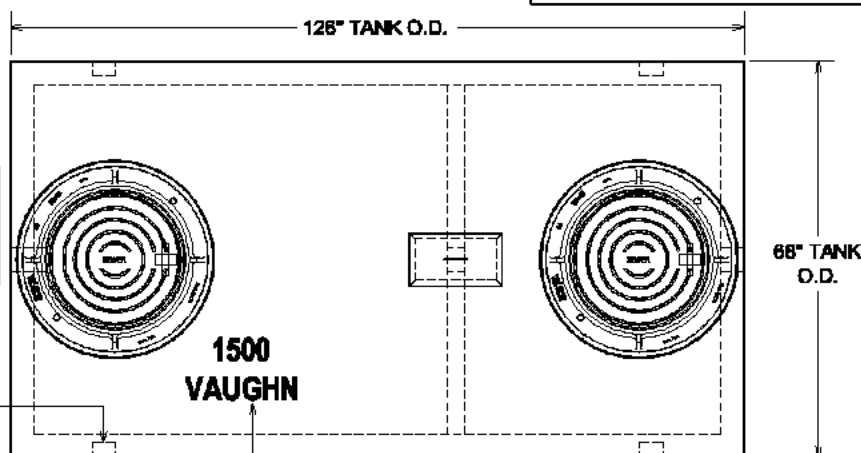
- 58" BELOW THE INLET
- EXCAVATION TO BE 6 1/2' WIDE X 14' LONG
- SEE OUR INSTALLATION GUIDELINES
PRIOR TO INSTALLING THIS TANK

CONCRETE : 4,000 P.S.I. (MINIMUM)

REINFORCING : REBAR & WELDED WIRE FABRIC

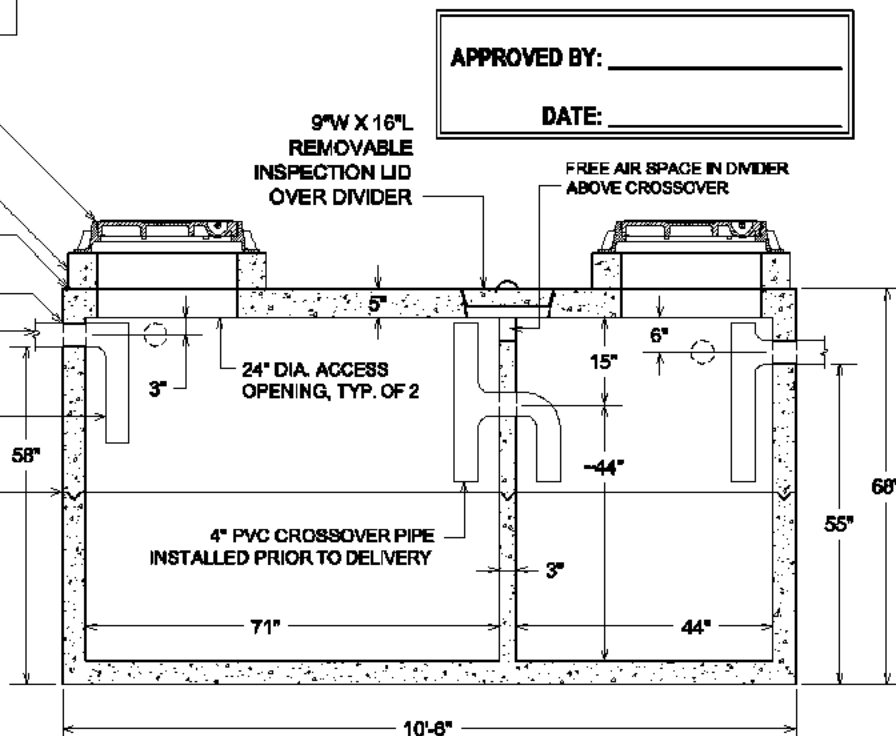
ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

IT IS THE EXCAVATOR'S OR
INSTALLER'S RESPONSIBILITY
TO REQUEST OUR
INSTALLATION GUIDELINES
PRIOR TO INSTALLING THIS
TANK



PLAN VIEW

DURING PRODUCTION, "TANK SIZE" &
"VAUGHN" ARE STAMPED IN LID, "IN" &
"OUT" ARE MARKED ON TANK ENDS



SECTION VIEW

DRAWING IS NOT TO SCALE

1500 GAL. SOI, NON-TRAFFIC-TX.DWG
DATE CREATED: 11/ 04
UPDATED: 12/ 09

vaughn concrete products, inc.

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www.vaughnconcreteproducts.com

PRECAST CONCRETE SAND/OIL INTERCEPTOR

1500 GALLON CAPACITY
WITH TOP FOR TRAFFIC
STANDARD FOR TEXAS

PURCHASER IS RESPONSIBLE FOR
DETERMINING IF THIS DESIGN IS SUITABLE
FOR THEIR APPLICATION

LARGE ACCESS OPENINGS PROVIDE
EASIER PUMPING & MAINTENANCE

2 COMPARTMENT TANK WITH
APPROXIMATELY 60% OF
CAPACITY ON INLET SIDE

WITHSTANDS UP TO 6' OF BURY,
RISERS ARE AVAILABLE FOR
INLET & OUTLET

OPTIONS:

- 24" I.D. MANHOLE RISERS
- GAS TIGHT CAST IRON RINGS & COVERS

PIPING KNOCKOUTS 16" FROM END OF
TANK TO CENTER OF KNOCKOUT TO
ALLOW FOR CONCRETE TO BE BROKEN
OUT TO ALLOW FOR SIDE INLET OR
OUTLET PIPE AT SAME HEIGHT AS
STANDARD INLET & OUTLET, TYP. OF 4

4" THICK WALLS & FLOOR, 9" THICK ROOF
*NOTE: WALLS & DIVIDER DO TAPER,
THICKNESSES DO DECREASE TO ALLOW FOR
FORM REMOVAL; THE AVG. WALL & DIVIDER
THICKNESSES ARE LISTED

OUR STANDARD 24" DIAMETER CAST
IRON RINGS & COVERS, TYP. OF 2
24" I.D. MANHOLE RISER AS REQUIRED,
TYP. INLET/OUTLET END; AVAILABLE IN
2", 3", 4", 6", 8" OR 12" HEIGHTS

CONSEAL JOINT SEALANT, OR
CONTRACTOR TO GROUT

PIPING BLOCKOUTS WITH POLYLOK
PIPE SEALS CAST IN TANK FOR INLET
& OUTLET PIPING (TYPICAL)

CONTRACTOR'S 4" PIPES

VCP SUPPLIED 4" SDR35
INLET & OUTLET TEES

CONSEAL JOINT SEALANT

TANK WEIGHTS:

- COMPLETE INTERCEPTOR : 16,800 LBS.

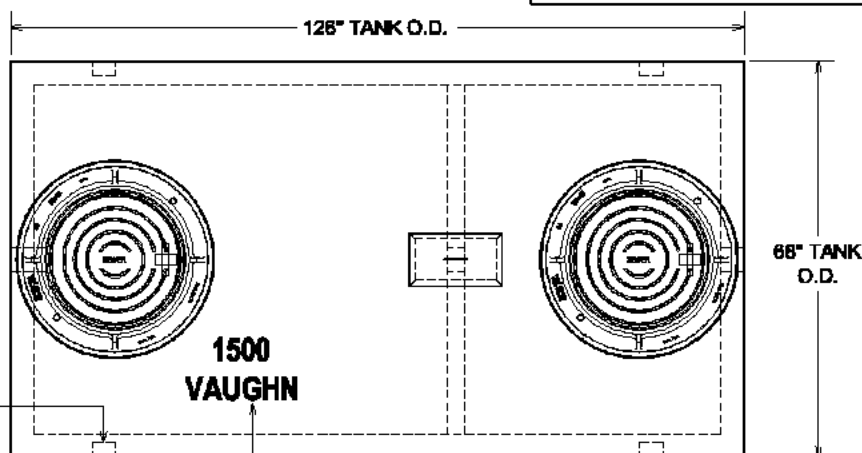
DIGGING SPECIFICATIONS:

- 58" BELOW THE INLET
- EXCAVATION TO BE 6 1/2' WIDE X 14' LONG
- SEE OUR INSTALLATION GUIDELINES
PRIOR TO INSTALLING THIS TANK

CONCRETE : 4,000 P.S.I. (MINIMUM)
REINFORCING : REBAR & WELDED WIRE FABRIC

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

IT IS THE EXCAVATOR'S OR
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PRIOR TO INSTALLING THIS
TANK

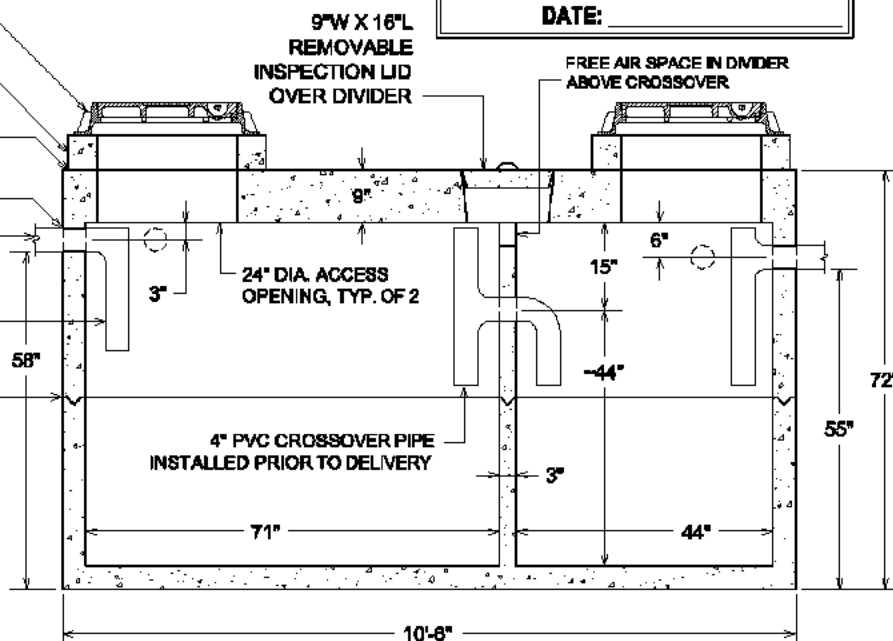


PLAN VIEW

DURING PRODUCTION, "TANK SIZE" &
"VAUGHN" ARE STAMPED IN LID, "IN" &
"OUT" ARE MARKED ON TANK ENDS

APPROVED BY: _____

DATE: _____



SECTION VIEW

DRAWING IS NOT TO SCALE

1500 GAL. SOI, TRAFFIC-TX1212G
DATE CREATED: 11/ 04
UPDATED: 12/ 09

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www.vaughnconcreteproducts.com

PRECAST CONCRETE SAND/OIL INTERCEPTORS

2000 GALLON & LARGER CAPACITIES

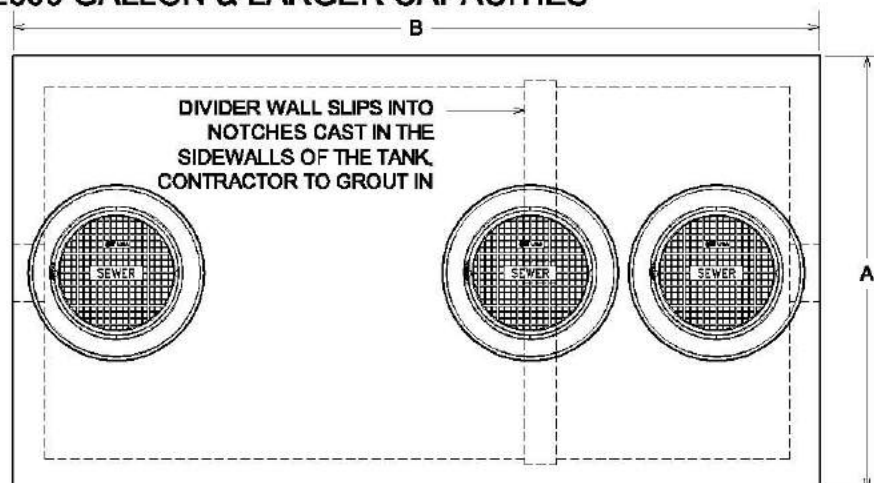
APPROVED BY : _____
DATE : _____

SELECT SIZE:

2000 _____
2500 _____
3000 _____
3500 _____
4000 _____

PLAN VIEW

IT IS THE EXCAVATOR'S OR INSTALLER'S
RESPONSIBILITY TO REQUEST OUR
INSTALLATION GUIDELINES PRIOR TO
INSTALLING THIS TANK



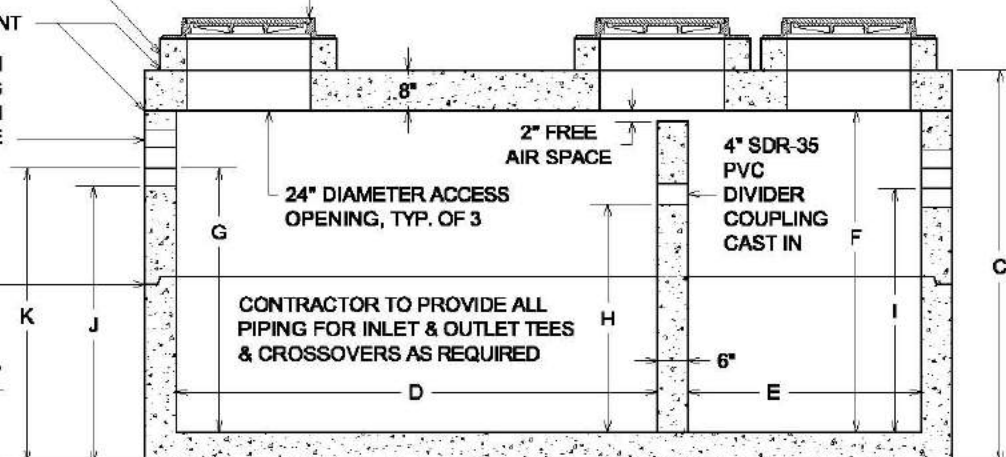
24" I.D. MANHOLE RISER AS
REQUIRED TO ADJUST
RINGS & COVERS TO GRADE,
TYP. EACH ACCESS

OUR STANDARD 24" DIAMETER CAST
IRON RINGS & COVERS, TYP. OF 3

CONSEAL JOINT SEALANT
11" DIAMETER OPENING CAST IN ON
INLET & OUTLET END, OPENING
CAN BE PROVIDED WITH PRESS-IN
GASKETS FOR 4", 6" OR 8" PIPE

CONSEAL JOINT SEALANT

SECTION VIEW



"G", "H", "I" & "K" DIMENSIONS:
ALL ARE TO THE PIPE INVERT

**"J" DIMENSION:
IS APPROXIMATE HEIGHT FROM BOTTOM OF
PRECAST UNIT TO BOTTOM OF 11" HOLE, NOT TO
BOTTOM OF THE PIPE INVERT

**"K" DIMENSION:
IS FOR DIGGING INFORMATION ONLY, APPROXIMATE HEIGHT
FROM BOTTOM OF PRECAST UNIT TO THE PIPE INVERT,
EXCAVATION SHOULD ALLOW 1' ON EACH SIDE OF INTERCEPTOR
FOR SLING & LIFTING BOLT REMOVAL

WALLS & FLOOR TO BE 6" THICK

REINFORCED FOR AASHTO HS-20-44 LOADINGS
CONCRETE: 5000 P.S.I. MINIMUM

LARGER SIZE UNITS UP TO 30,000 GALLONS ARE
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DRAWING IS NOT TO SCALE

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

SAND/OIL INTERCEPTOR DIMENSIONS

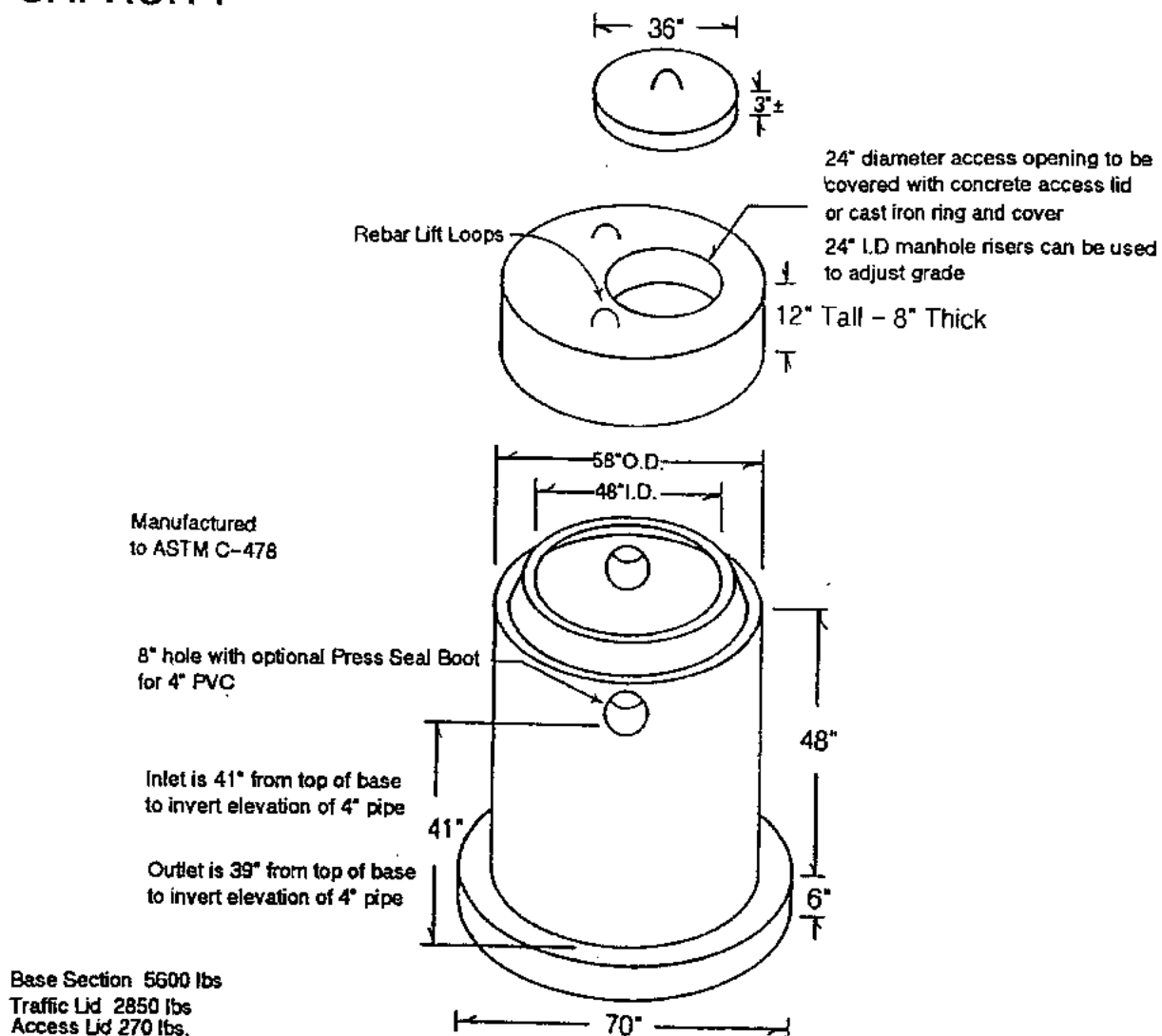
	2000	2500	3000	3500	4000
A	7'-0"	7'-0"	7'-0"	7'-0"	7'-0"
B	13'-0"	13'-0"	13'-0"	17'-0"	17'-0"
C	76"	88"	100"	89"	98"
D	93"	93"	93"	120"	120"
E	45"	45"	45"	66"	66"
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G (6" PIPE)	50"	62"	74"	63"	72"
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I (4" PIPE)	47"	59"	71"	60"	69"
*J	53-1/2"	65-1/2"	77-1/2"	66-1/2"	75-1/2"
DIGGING DEPTH INFORMATION					
**K (4" PIPE)	57"	69"	81"	70"	79"
**K (6" PIPE)	56"	68"	80"	69"	78"
**K (8" PIPE)	55"	67"	79"	68"	77"
TOTAL APPROXIMATE WEIGHTS (IN LBS)					
	31,500	34,900	38,200	43,500	46,800
HEAVIEST PIECE (MAX. WEIGHT) BASED ON EQUAL HEIGHT SECTIONS (IN LBS)					
	15,000	16,200	17,400	20,500	22,000

2000+ GAL S.O.I. I.D.
DATE CREATED: 11/05
UPDATED: 12/09

vaughn concrete products, inc.

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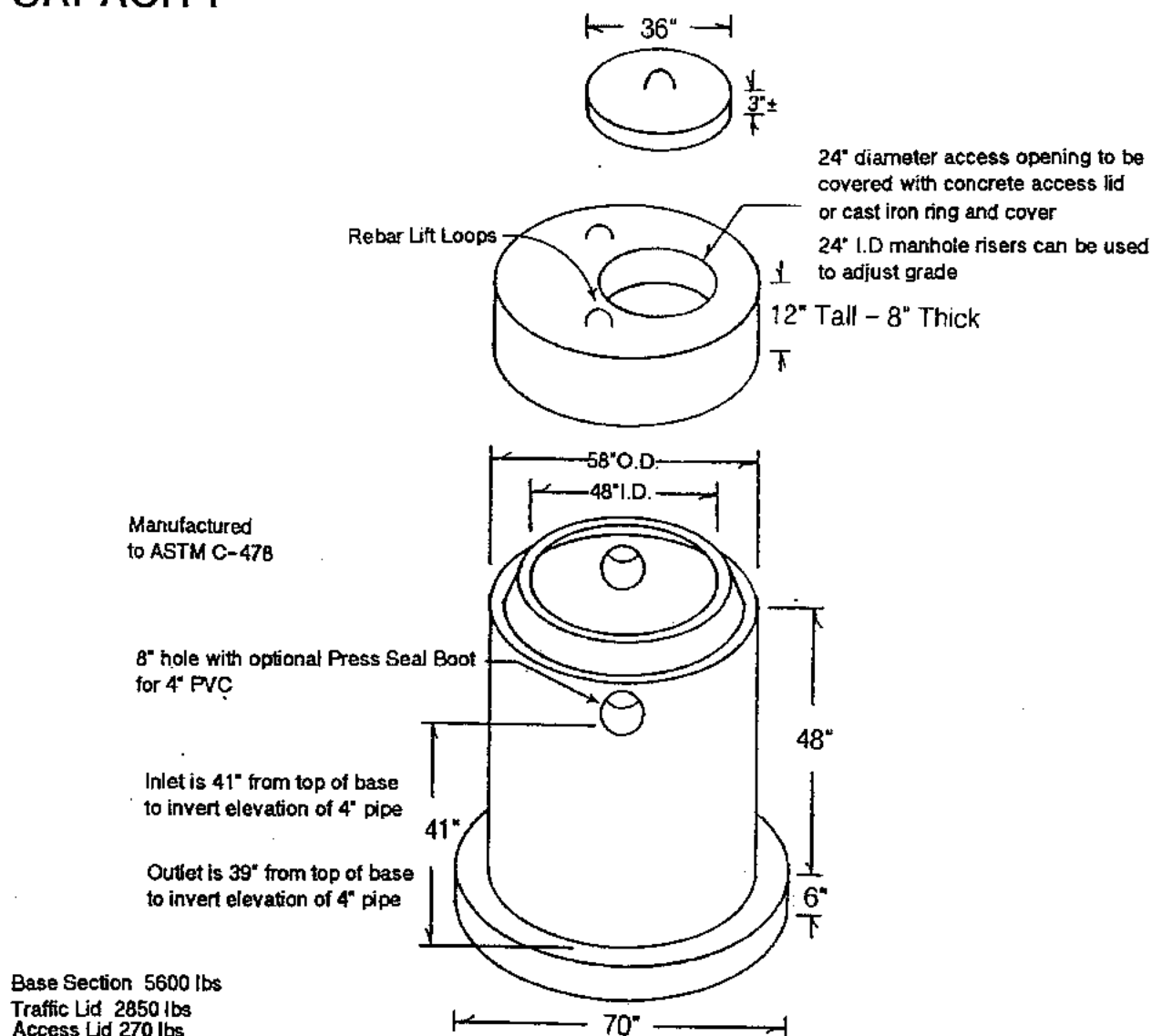
Precast Concrete

GREASE TRAP**300 GALLON
CAPACITY**

Actual dimensions of concrete products may vary slightly

Vaughn
concrete products, inc.

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2671 So. Greeley Hwy • Cheyenne, Wyoming 82007 • 307-634-0695, Fax 307-634-0694
10021 Amarillo Blvd. East • Amarillo, Texas 79107 • 806-374-3747, Fax 806-335-3717

SAND TRAP**300 GALLON
CAPACITY**

Actual dimensions of concrete products may vary slightly

vaughn
concrete products, inc.

12650 Tucson Street • Henderson, Colorado 80640 • 303-659-3747, Fax 303-659-1333
 2671 So. Greeley Hwy • Cheyenne, Wyoming 82007 • 307-634-0695, Fax 307-634-0694
 10021 Amarillo Blvd. East • Amarillo, Texas 79107 • 806-374-3747, Fax 806-335-3717

PRECAST CONCRETE TANK WITH 4" OR THINNER FLOOR INSTALLATION GUIDELINES/INSTRUCTIONS

THE ITEMS LISTED HERE ARE BASIC GUIDELINES/INSTRUCTIONS. THE EXCAVATOR/INSTALLER MUST PERFORM THE WORK, BUT ONLY IN AREAS OF THEIR OWN COMPETENCE. IF ANY PORTION OF THE PROCESS OR CRITERIA FALLS OUTSIDE OF YOUR AREA OF COMPETENCE, PLEASE CONSULT WITH A REGISTERED ENGINEER.

SITE CONDITIONS

THE SITE MUST BE ACCESSIBLE TO LARGE, HEAVY TRUCKS.

THE SITE MUST BE FREE OF ITEMS LIKE TREES, OVERHEAD WIRES & BUILDINGS THAT COULD INTERFERE WITH ACCESS TO THE EXCAVATION. PLACEMENT OF THE TANK REQUIRES THE BACK OF OUR DELIVERY TRUCKS TO BE ON STABLE GROUND AND WITHIN THE FOLLOWING REACHES:

- MONORAIL TRUCK DELIVERIES: 7'-6" FROM THE BACK OF OUR MONORAIL TRUCK ON STABLE GROUND TO THE CENTER OF THE EXCAVATION
 - BOOM TRUCK DELIVERIES: 12'-0" FROM THE BACK OF OUR BOOM TRUCK ON STABLE GROUND TO THE CENTER OF THE EXCAVATION
- ALL TANKS MUST SET DIRECTLY OFF THE BACK OF OUR TRUCKS. EACH DELIVERY TRUCK IS APPROXIMATELY 45 FT. LONG AND 14 FT. HIGH.

EXCAVATION

EXCAVATION SHOULD ALLOW FOR APPROXIMATELY 8" (MINIMUM) TO 18" OF CLEARANCE ON EACH SIDE OF THE TANK TO ALLOW FOR REMOVAL OF OUR LIFTING APPARATUS. THIS MAY VARY WITH SOIL CONDITIONS. NEVER ENTER AN UNSAFE EXCAVATION.

ONCE THE EXCAVATION HAS BEEN COMPLETED AND THE OUTSIDE PERIMETER OF THE TANK HAS BEEN LOCATED AND LEVELLED, IT IS NECESSARY THAT THE EXCAVATION DIRECTLY BELOW THE TANK SLOPES DOWNWARD UNIFORMLY APPROXIMATELY 1" - 1½" FROM THE OUTSIDE PERIMETER OF THE TANK TO THE CENTER OF THE TANK TO PREVENT UNDUE PRESSURE AT THE CENTER OF THE TANK FLOOR.

BEDDING

PROPER USE OF BEDDING MATERIAL IS IMPORTANT TO ENSURE SERVICE LIFE OF THE TANK. BEDDING AND SOIL BENEATH THE TANK MUST BE STABLE AND CAPABLE OF BEARING THE WEIGHT OF THE TANK, ITS CONTENTS AND THE SOIL AND OTHER ITEMS COVERING THE TOP OF THE TANK. BEDDING

MATERIALS SHALL HAVE THE ABILITY TO 100% PASS THROUGH A ¾" SCREEN. BEDDING THICKNESS SHALL BE A MINIMUM OF 4" COMPACTED. THICKNESS MAY NEED TO BE INCREASED DEPENDANT UPON EXISTING SOIL CONDITIONS. IT IS THE EXCAVATOR/INSTALLER'S RESPONSIBILITY TO HAVE A SOIL ANALYSIS AND ENGINEERING DONE IF THEY ARE UNSURE IF THE SOIL IS SUITABLE. IT IS CRITICAL THAT THE BEDDING DOES NOT HAVE ANY HIGH SPOTS IN THE CENTER THAT WOULD CAUSE UNDUE STRESS AT ANY POINT ON THE TANK FLOOR.

JOINT SEALANT (IF USED)

JOINT SURFACE NEEDS TO BE CLEAN AND SEALANT NEEDS TO BE PLACED ACCORDING TO MANUFACTURERS RECOMMENDATIONS. IT IS IMPERATIVE TO OVERLAP THE JOINTS OF THE SEALANT, ONE DIRECTLY ON TOP OF THE OTHER AT LEAST 1½" (NOT SIDE BY SIDE) TO ENSURE A WATER TIGHT SEAL.

WATER TABLE

TANKS PLACED WHERE WATER LEVELS CAN POTENTIALLY BE HIGHER THAN THE ELEVATION OF THE TANK FLOOR OR TOP, MUST BE BROUGHT TO THE ATTENTION OF VAUGHN CONCRETE PRODUCTS, INC. PRIOR TO ORDERING THE TANK. ADDITIONAL INSTALLATION INSTRUCTIONS SUCH AS BALLAST AND COATING MAY BE REQUIRED.

WATER LEAK OR VACUUM TESTING

TO ENSURE THAT THE TANK IS WATER TIGHT, IT MUST BE WATER OR VACUUM TESTED PRIOR TO BACKFILL.

BACKFILL MATERIAL

THE SIDE WALLS OF TANKS REQUIRE DRY BACKFILL MATERIALS THAT HAVE THE ABILITY TO 100% PASS THROUGH A 2" SCREEN. A MINIMUM OF 8" OF SUITABLE BACKFILL MATERIAL ON ALL SIDES IS REQUIRED FROM THE BOTTOM TO THE TOP OF THE TANK. EXPANSIVE BACKFILL MATERIAL SHOULD NOT BE USED. BACKFILL MATERIAL SHALL BE PLACED WITH A BACKHOE OR OTHER MEANS THAT WILL AVOID IMPACT LOADS ON THE SIDE WALLS OF THE TANK. MINIMAL COMPACTION OF BACKFILL MATERIAL IS PERMITTED ON THE SIDE WALLS OF THE TANK. CARE MUST BE USED AS COMPACTING OR WHEEL COMPACTING CAN CAUSE EXCESSIVE PRESSURES TO THE SIDE WALLS OF THE TANK AND CAN CAUSE FAILURE. IF MORE THAN 85% PROCTOR COMPACTION IS REQUIRED, USE ¾" OR ¾" GRAVEL OR OTHER SELF-COMPACTING MATERIAL FOR YOUR BACKFILL MATERIAL.

COVER MATERIAL

COVER MATERIAL SHALL BE DRY SOIL, SAND OR GRAVEL MATERIAL THAT HAS THE ABILITY TO 100% PASS THROUGH A 2" SCREEN. CARE MUST BE USED AS COMPACTING OR WHEEL COMPACTING CAN CAUSE EXCESSIVE PRESSURES TO THE TOP OF THE TANK AND CAN CAUSE FAILURE. COVER MATERIALS SHALL BE MOUNDED OVER THE TANK AND AROUND RISERS TO DIRECT RUN-OFF AWAY FROM BOTH.

PLEASE CONSULT WITH A VAUGHN CONCRETE PRODUCTS REPRESENTATIVE WITH ANY QUESTIONS OR CONCERNS TOLL FREE @ 1-877-827-8255

VISIT US ON THE WEB @ www.vaughnconcreteproducts.com

**vaughn
concrete products, inc.**

INSTALLATION GUIDELINES-4 INCH.DWG
DATE CREATED: 12/07
DATE MODIFIED: 12/08

12650 Tucson Street • Henderson, Colorado 80640 • 303-659-3747, Fax 303-659-1333
2671 South Greeley Hwy • Cheyenne, Wyoming 82007 • 307-634-0695, Fax 307-634-0694
10021 Amarillo Blvd East • Amarillo, Texas 79108 • 806-374-3747, Fax 806-335-3717

www.vaughnconcreteproducts.com

PRECAST CONCRETE STRUCTURE WITH 6" OR THICKER FLOOR INSTALLATION GUIDELINES/INSTRUCTIONS

THE ITEMS LISTED HERE ARE BASIC GUIDELINES/INSTRUCTIONS. THE EXCAVATOR/INSTALLER MUST PERFORM THE WORK, BUT ONLY IN AREAS OF THEIR OWN COMPETENCE. IF ANY PORTION OF THE PROCESS OR CRITERIA FALLS OUTSIDE OF YOUR AREA OF COMPETENCE, PLEASE CONSULT WITH A REGISTERED ENGINEER.

SITE CONDITIONS

THE SITE MUST BE ACCESSIBLE TO LARGE, HEAVY TRUCKS.

THE SITE MUST BE FREE OF ITEMS LIKE TREES, OVERHEAD WIRES & BUILDINGS THAT COULD INTERFERE WITH ACCESS TO THE EXCAVATION. PLACEMENT OF THE STRUCTURE REQUIRES THE BACK OF OUR DELIVERY TRUCKS TO BE ON STABLE GROUND AND WITHIN THE FOLLOWING REACHES:

- MONORAIL TRUCK DELIVERIES: 7'-6" FROM THE BACK OF OUR MONORAIL TRUCK ON STABLE GROUND TO THE CENTER OF THE EXCAVATION

- BOOM TRUCK DELIVERIES: 12'-0" FROM THE BACK OF OUR BOOM TRUCK ON STABLE GROUND TO THE CENTER OF THE EXCAVATION

ALL STRUCTURES MUST SET DIRECTLY OFF THE BACK OF OUR TRUCKS. EACH DELIVERY TRUCK IS APPROXIMATELY 45 FT. LONG AND 14 FT. HIGH.

EXCAVATION

EXCAVATION SHOULD ALLOW FOR APPROXIMATELY 8" (MINIMUM) TO 18" OF CLEARANCE ON EACH SIDE OF THE STRUCTURE TO ALLOW FOR REMOVAL OF OUR LIFTING APPARATUS. THIS MAY VARY WITH SOIL CONDITIONS. NEVER ENTER AN UNSAFE EXCAVATION.

BEDDING

PROPER USE OF BEDDING MATERIAL IS IMPORTANT TO ENSURE SERVICE LIFE OF THE STRUCTURE. BEDDING AND SOIL BENEATH THE STRUCTURE MUST BE STABLE AND CAPABLE OF BEARING THE WEIGHT OF THE STRUCTURE, ITS CONTENTS AND THE SOIL AND OTHER ITEMS COVERING THE TOP

OF THE STRUCTURE. BEDDING MATERIALS SHALL HAVE THE ABILITY TO 100% PASS THROUGH A $\frac{3}{4}$ " SCREEN. BEDDING THICKNESS SHALL BE A MINIMUM OF 4" COMPACTED. THICKNESS MAY NEED TO BE INCREASED DEPENDANT UPON EXISTING SOIL CONDITIONS. IT IS THE EXCAVATOR/INSTALLER'S RESPONSIBILITY TO HAVE A SOIL ANALYSIS AND ENGINEERING DONE IF THEY ARE UNSURE IF THE SOIL IS SUITABLE. IT IS CRITICAL THAT THE BEDDING DOES NOT HAVE ANY HIGH SPOTS IN THE CENTER THAT WOULD CAUSE UNDUE STRESS AT ANY POINT ON THE STRUCTURE FLOOR.

JOINT SEALANT (IF USED)

JOINT SURFACE NEEDS TO BE CLEAN AND SEALANT NEEDS TO BE PLACED ACCORDING TO MANUFACTURERS RECOMMENDATIONS. IT IS IMPERATIVE TO OVERLAP THE JOINTS OF THE SEALANT, ONE DIRECTLY ON TOP OF THE OTHER AT LEAST 1 $\frac{1}{2}$ " (NOT SIDE BY SIDE) TO ENSURE A WATER TIGHT SEAL.

WATER TABLE

STRUCTURES PLACED WHERE WATER LEVELS CAN POTENTIALLY BE HIGHER THAN THE ELEVATION OF THE STRUCTURE FLOOR OR TOP, MUST BE BROUGHT TO THE ATTENTION OF VAUGHN CONCRETE PRODUCTS, INC. PRIOR TO ORDERING THE STRUCTURE.

ADDITIONAL INSTALLATION INSTRUCTIONS SUCH AS BALLAST AND COATING MAY BE REQUIRED.

WATER LEAK OR VACUUM TESTING

TO ENSURE THAT THE STRUCTURE IS WATER TIGHT, IT MUST BE WATER OR VACUUM TESTED PRIOR TO BACKFILL.

BACKFILL MATERIAL

THE SIDE WALLS OF STRUCTURES REQUIRE DRY BACKFILL MATERIALS THAT HAVE THE ABILITY TO 100% PASS THROUGH A 2" SCREEN. A MINIMUM OF 8" OF SUITABLE BACKFILL MATERIAL ON ALL SIDES IS REQUIRED FROM THE BOTTOM TO THE TOP OF THE STRUCTURE. EXPANSIVE BACKFILL MATERIAL SHOULD NOT BE USED. BACKFILL MATERIAL SHALL BE PLACED WITH A BACKHOE OR OTHER MEANS THAT WILL AVOID IMPACT LOADS ON THE SIDE

WALLS OF THE STRUCTURE. MINIMAL COMPACTION OF BACKFILL MATERIAL IS PERMITTED ON THE SIDE WALLS OF THE STRUCTURE. CARE MUST BE USED AS COMPACTION OR WHEEL COMPACTION CAN CAUSE EXCESSIVE PRESSURES TO THE SIDE WALLS OF THE STRUCTURE AND CAN CAUSE FAILURE.

IF MORE THAN 85% PROCTOR COMPACTION IS REQUIRED, USE $\frac{3}{8}$ " OR $\frac{1}{2}$ " GRAVEL OR OTHER SELF-COMPACTING MATERIAL FOR YOUR BACKFILL MATERIAL.

COVER MATERIAL

COVER MATERIAL SHALL BE DRY SOIL, SAND OR GRAVEL MATERIAL THAT HAS THE ABILITY TO 100% PASS THROUGH A 2" SCREEN. CARE MUST BE USED AS COMPACTION OR WHEEL COMPACTION CAN CAUSE EXCESSIVE PRESSURES TO THE TOP OF THE STRUCTURE AND CAN CAUSE FAILURE.

COVER MATERIALS SHALL BE MOUNDED OVER THE STRUCTURE AND AROUND RISERS TO DIRECT RUN-OFF AWAY FROM BOTH.

PLEASE CONSULT WITH A VAUGHN CONCRETE PRODUCTS REPRESENTATIVE WITH ANY QUESTIONS OR CONCERNS TOLL FREE @ 1-877-827-8255

VISIT US ON THE WEB @ www.vaughnconcreteproducts.com

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INSTALLATION GUIDELINES-6 INCH.DWG
DATE CREATED: 12/08

12650 Tucson Street • Henderson, Colorado 80640 • 303-659-3747, Fax 303-659-1333
2671 South Greeley Hwy • Cheyenne, Wyoming 82007 • 307-634-0695, Fax 307-634-0694
10021 Amarillo Blvd East • Amarillo, Texas 79108 • 806-374-3747, Fax 806-335-3717

www.vaughnconcreteproducts.com

PRECAST CONCRETE SEPTIC TANK

1000 GALLON CAPACITY

MONOLITHIC BODY NO SEAMS OR JOINTS

3" THICK FLOOR & WALLS, 4" THICK LID

2 COMPARTMENT TANK WITH
APPROXIMATELY 60% OF CAPACITY ON
INLET SIDE

TANK IS PROVIDED WITH NOTCHES IN
SIDEWALLS FOR SLIP-IN DIVIDER WALL

WITHSTANDS UP TO 6' OF BURY, RISERS
ARE AVAILABLE FOR INLET & OUTLET

OPTIONS:

- **8" THICK LID FOR TRAFFIC LOADINGS
- 24" I.D. MANHOLE RISERS
- CAST IRON RINGS & COVERS

PIPING KNOCKOUTS 18" FROM END OF
TANK TO CENTER OF KNOCKOUT TO
ALLOW FOR CONCRETE TO BE
BROKEN OUT TO ALLOW FOR SIDE
INLET OR OUTLET PIPE AT SAME
HEIGHT AS STANDARD INLET &
OUTLET, TYP. OF 4

DIGGING SPECIFICATIONS:

- 54" BELOW THE INLET
- EXCAVATION TO BE 7' WIDE X 10' LONG

OUR STANDARD 18" DIAMETER
CONCRETE ACCESS LIDS, TYP. OF 3

PIPING BLOCKOUTS WITH POLYLOK
PIPE SEALS CAST IN TANK FOR INLET
& OUTLET PIPING (TYPICAL)

CONTRACTOR'S 4" PIPES

VCP SUPPLIED 4" SDR35
INLET & OUTLET TEES

TANK WEIGHTS:

TANK WITH DIVIDER ONLY : 6,600 LBS.

NON-TRAFFIC RATED

- TANK LID : 2,800 LBS.
- COMPLETE NON-TRFC TANK : 9,400 LBS.

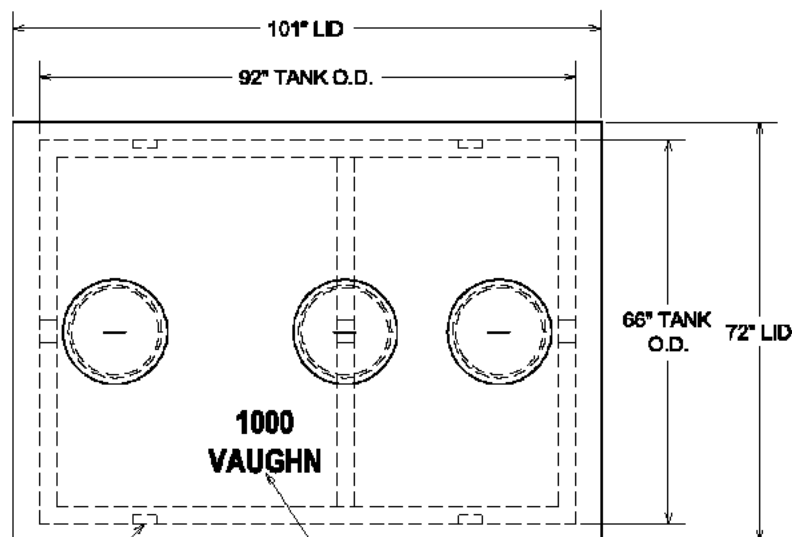
TRAFFIC RATED

- TANK LID : 5,400 LBS.
- COMPLETE TRAFFIC TANK : 12,000 LBS.

CONCRETE : 4,000 P.S.I. (MINIMUM)

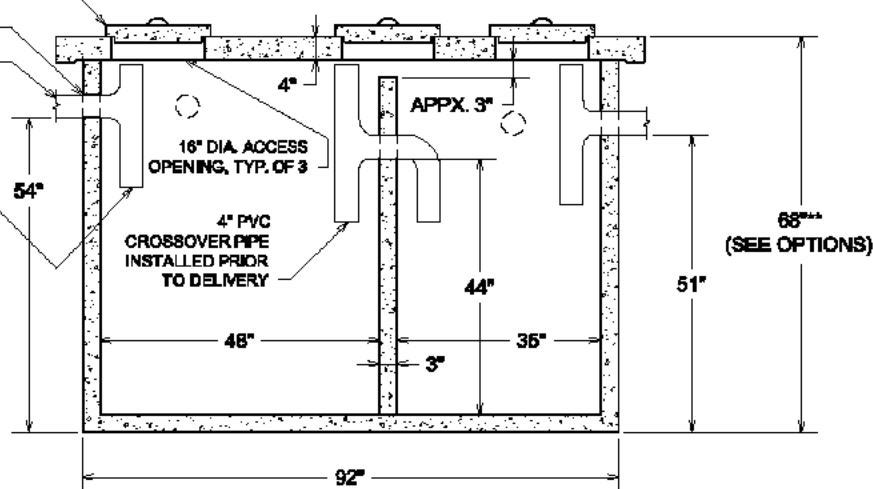
REINFORCING : REBAR & WELDED WIRE FABRIC

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY



PLAN VIEW

DURING PRODUCTION, "TANK SIZE" &
"VAUGHN" ARE STAMPED IN LID, "IN" &
"OUT" ARE MARKED ON TANK ENDS



SECTION VIEW

DRAWING IS NOT TO SCALE

1000 GAL. MONO-SEPTIC TANK.DWG
DATE CREATED 12/06
UPDATED: -----

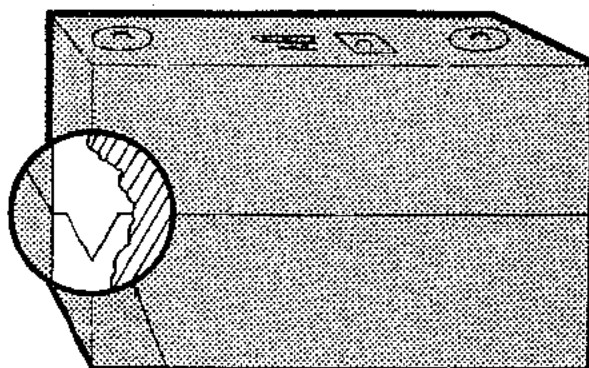
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2671 South Greeley Hwy • Cheyenne, Wyoming 82007 • 307-634-0695, Fax 307-634-0694
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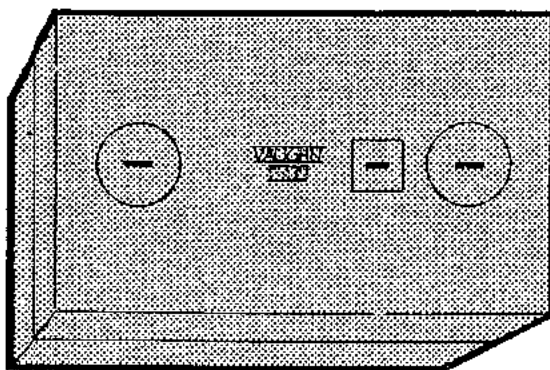
Precast Concrete

Septic Tanks

Two Piece



Top Section Vees Into Bottom



Sizes:

1250 gallon
1500 gallon
2000 gallon

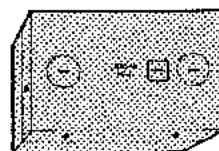
Precast Concrete two-piece Septic Tank with 4" thick floor, 4" thick walls & 5" thick top. The tank side walls and floor are reinforced with 6x6x10 welded steel wire mesh with a 6" overlap. Top reinforced with 6x6x10 mesh. *Top for traffic is 9" thick.*

All tanks meet state and county health department requirements.

Manufactured with 4000 P.S.I. Concrete (minimum)

Sealed with Concrete Joint Sealant

To aid installation, inlets and outlets are available on sides and ends of tank.



Two-Piece Septic Tank Weights

<u>Capacity</u>	<u>Non-Traffic</u>	<u>Traffic</u>
1250 Gallon	~12,900 Lbs.	~15,200 Lbs.
1500 Gallon	~14,300 Lbs.	~17,100 Lbs.
2000 Gallon	~16,600 Lbs.	~19,400 Lbs.

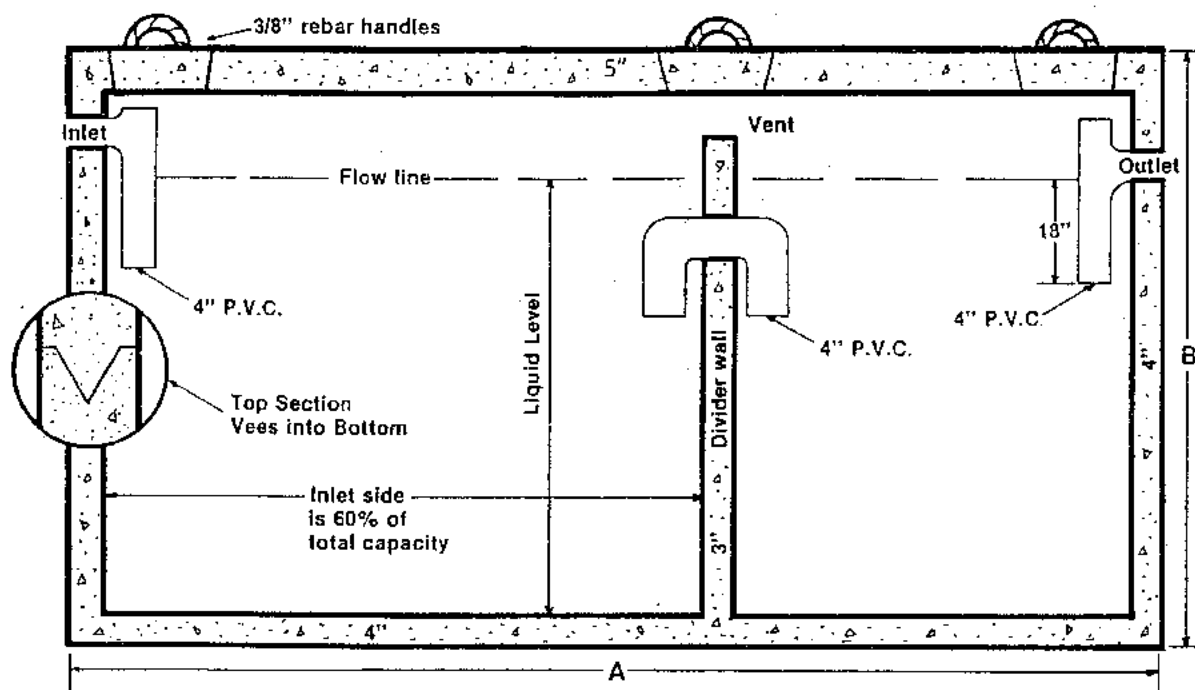
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concrete products, inc.

UPDATED 12/09

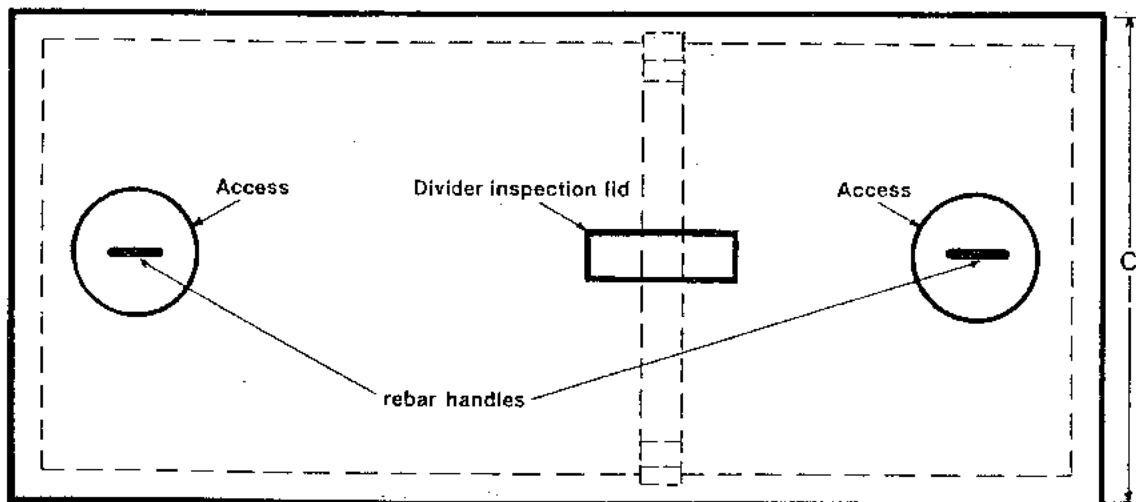
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TWO PIECE SEPTIC TANK

Continued



SECTION
Side View



PLAN
Top View

Tank Dimensions:	A	B	C	Digging Specifications:	
1,250 gallon tank	8'10"	5'8"	5'8"	54 inches below inlet	6½ ft. x 12 ft.
1,500 gallon tank	10'6"	5'8"	5'8"	58 inches below inlet	6½ ft. x 14 ft.
2,000 gallon tank	10'6"	7'2"	5'8"	76 inches below inlet	6½ ft. x 14 ft.

Actual dimensions of concrete products may vary slightly.

PRECAST CONCRETE SEPTIC TANK

1000 GALLON CAPACITY
STANDARD FOR TEXAS

MONOLITHIC BODY NO SEAMS OR JOINTS

3" THICK FLOOR
4" THICK WALLS & 4" THICK LID

2 COMPARTMENT TANK WITH
APPROXIMATELY 60% OF CAPACITY ON
INLET SIDE

TANK IS PROVIDED WITH NOTCHES IN
SIDEWALLS FOR SLIP-IN DIVIDER WALL

WITHSTANDS UP TO 6' OF BURY, RISERS
ARE AVAILABLE FOR INLET & OUTLET

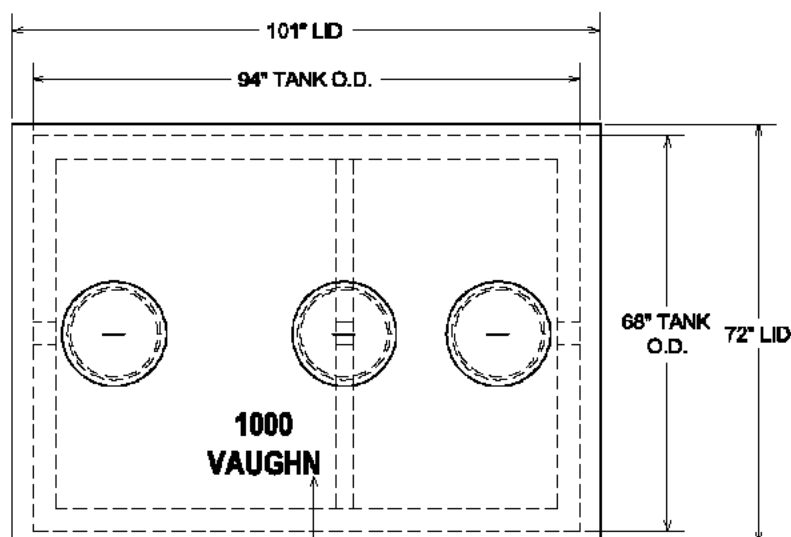
OPTIONS:

- **8" THICK LID FOR TRAFFIC LOADINGS
- 24" I.D. MANHOLE RISERS
- CAST IRON RINGS & COVERS

DIGGING SPECIFICATIONS:

- 54" BELOW THE INLET
- EXCAVATION TO BE 7' WIDE X 10' LONG
- SEE OUR *INSTALLATION GUIDELINES*
PRIOR TO INSTALLING THIS TANK

IT IS THE EXCAVATOR'S OR
INSTALLER'S RESPONSIBILITY
TO REQUEST OUR
INSTALLATION GUIDELINES
PRIOR TO INSTALLING THIS
TANK



PLAN VIEW

DURING PRODUCTION, "TANK SIZE" &
"VAUGHN" ARE STAMPED IN LID, "IN" &
"OUT" ARE MARKED ON TANK ENDS

OUR STANDARD 18" DIAMETER
CONCRETE ACCESS LIDS, TYP. OF 3

PIPING BLOCKOUTS WITH POLYLOK
PIPE SEALS CAST IN TANK FOR INLET
& OUTLET PIPING (TYPICAL)

CONTRACTOR'S 4" PIPES

VCP SUPPLIED 4" SDR35
INLET & OUTLET TEES

TANK WEIGHTS:

TANK WITH DIVIDER ONLY : 8,000 LBS.

NON-TRAFFIC RATED

- TANK LID : 2,800 LBS.
- COMPLETE NON-TRFC TANK : 10,800 LBS.

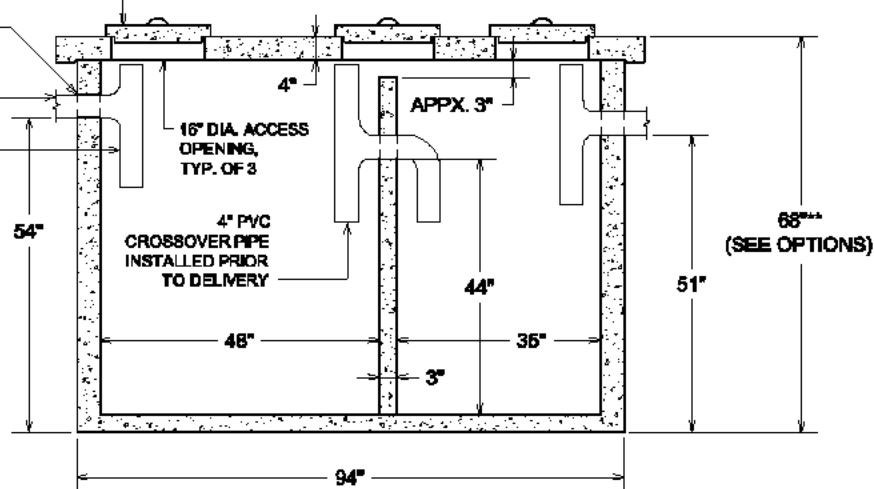
TRAFFIC RATED

- TANK LID : 5,400 LBS.
- COMPLETE TRAFFIC TANK : 13,400 LBS.

CONCRETE : 4,000 P.S.I. (MINIMUM)

REINFORCING : REBAR & WELDED WIRE FABRIC

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY



SECTION VIEW

DRAWING IS NOT TO SCALE

1000 GAL. MONO-SEPTIC TANK.DWG
DATE CREATED: 12/06
UPDATED: 12/07

vaughn concrete products, inc.

PRECAST CONCRETE SEPTIC TANK

1500 GALLON CAPACITY - 2-PIECE
STANDARD FOR TEXAS

2-PIECE BODY

TOP SECTION VEES INTO BOTTOM SECTION

TANK MEETS MOST STATE & COUNTY
HEALTH DEPARTMENT REQUIREMENTS

4" THICK FLOOR & WALLS, 5" THICK ROOF
3" THICK DIVIDER WALL

2 COMPARTMENT TANK WITH
APPROXIMATELY 60% OF CAPACITY ON
INLET SIDE

WITHSTANDS UP TO 6' OF BURY, RISERS
ARE AVAILABLE FOR INLET & OUTLET

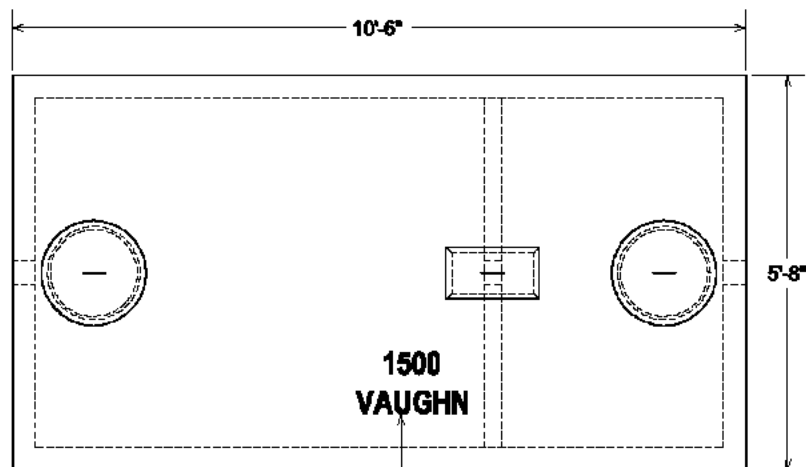
OPTIONS:

- INLET & OUTLET PIPES AVAILABLE ON
SIDES & ENDS OF TANK
- **9" THICK ROOF FOR TRAFFIC LOADINGS
- 24" I.D. MANHOLE RISERS
- CAST IRON RINGS & COVERS

DIGGING SPECIFICATIONS:

- 58" BELOW THE INLET
- EXCAVATION TO BE 8'-6" WIDE X 14' LONG
- SEE OUR INSTALLATION GUIDELINES
PRIOR TO INSTALLING THIS TANK

IT IS THE EXCAVATOR'S OR
INSTALLER'S RESPONSIBILITY
TO REQUEST OUR
INSTALLATION GUIDELINES
PRIOR TO INSTALLING THIS
TANK



PLAN VIEW

DURING PRODUCTION, "TANK SIZE" &
"VAUGHN" ARE STAMPED IN TOP, "IN"
& "OUT" ARE MARKED ON TANK ENDS

OUR STANDARD 18" DIAMETER
CONCRETE ACCESS LIDS, TYP. OF 2

PIPING BLOCKOUTS WITH POLYLOK
PIPE SEALS CAST IN TANK FOR INLET
& OUTLET PIPING (TYPICAL)

CONTRACTOR'S 4" PIPES

VCP SUPPLIED 4" SDR35
INLET & OUTLET TEES

TANK WEIGHTS:

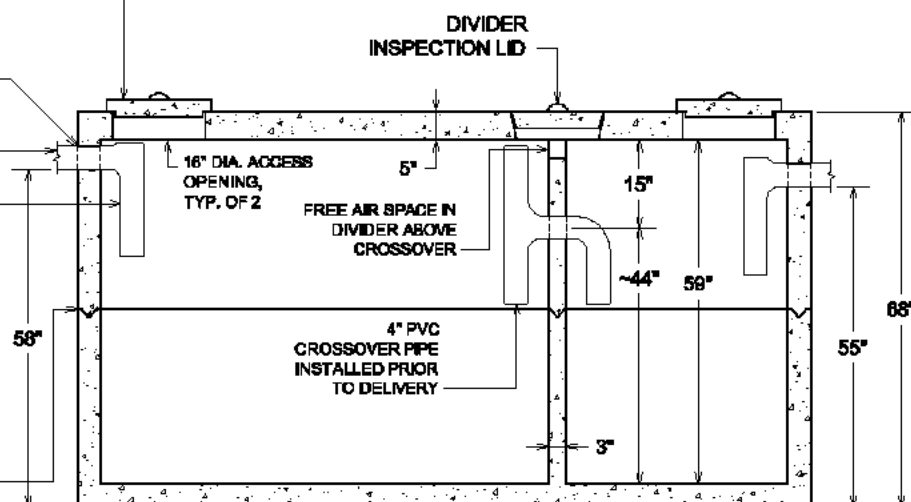
NON-TRAFFIC RATED

- NON-TRAFFIC TANK: APPX. 14,300 LBS.

TRAFFIC RATED

- TRAFFIC TANK: APPX. 17,100 LBS.

TOP SECTION VEES INTO
BOTTOM SECTION;
SEALED WITH JOINT SEALANT



SECTION VIEW

CONCRETE : 4,000 P.S.I. (MINIMUM)

REINFORCING : REBAR & WELDED WIRE FABRIC

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

DRAWING IS NOT TO SCALE

1500 GAL. 2-PIECE SEPTIC TANK.DWG
DATE CREATED: 12/09
UPDATED: -----

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PRECAST CONCRETE SEPTIC TANK

2000 GALLON CAPACITY, FOR
NON-TRAFFIC APPLICATIONS
(TX ONLY)

MONOLITHIC BODY NO SEAMS OR JOINTS

4" THICK WALLS & FLOOR, 6" THICK LID

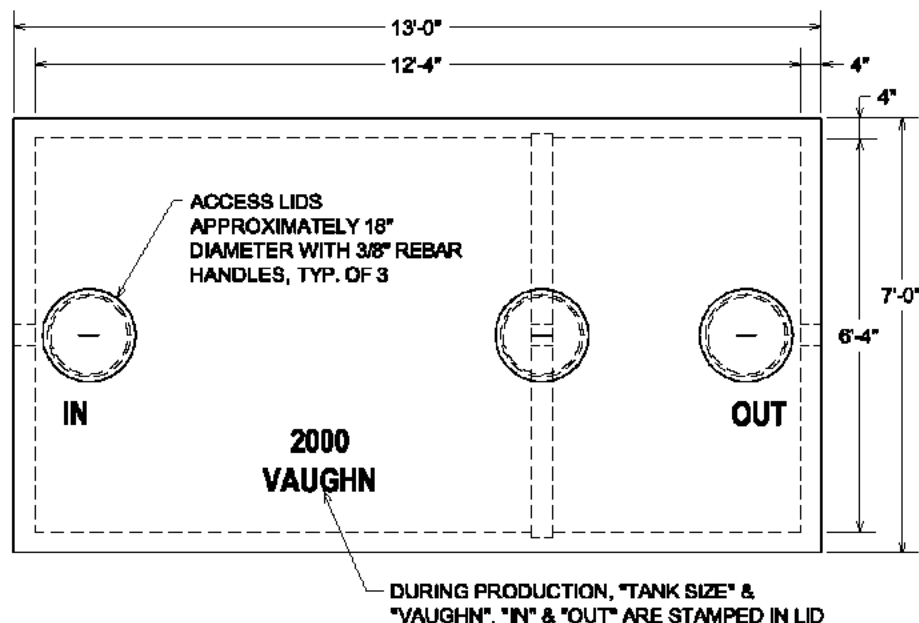
2 COMPARTMENT TANK WITH
APPROXIMATELY 60% OF CAPACITY
ON INLET SIDE

WITHSTANDS UP TO 6' OF BURY
(OPTIONAL RISERS ARE AVAILABLE
FOR INLET & OUTLET ACCESSES)

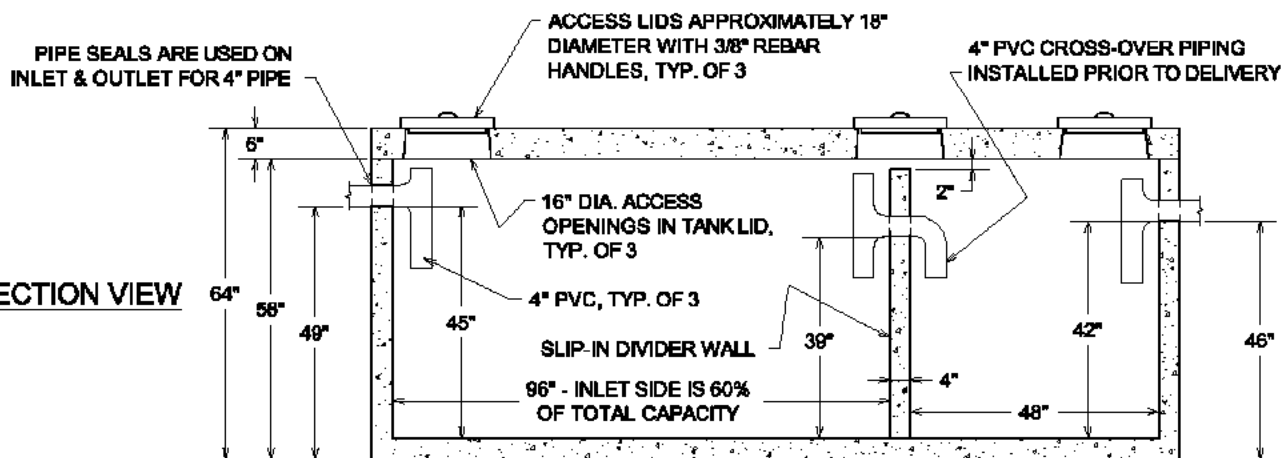
PLAN VIEW

OPTIONS:

- 20" I.D. SEPTIC TANK RISERS
- SEPTIC TANK RISER LIDS
- HEAVIER TRAFFIC RATED LID



SECTION VIEW



DIGGING SPECIFICATIONS:

- 49" BELOW THE INLET
- EXCAVATION TO BE 9' WIDE X 15' LONG

TANK WEIGHTS:

- TANK LID : 6,850 LBS.
- DIVIDER ONLY : 1,450 LBS.
- TANK WITH DIVIDER ONLY : 16,200 LBS.
- COMPLETE SEPTIC TANK : 23,050 LBS.

CONCRETE : 4,000 P.S.I. (MINIMUM)
REINFORCING : REBAR & WELDED WIRE FABRIC

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

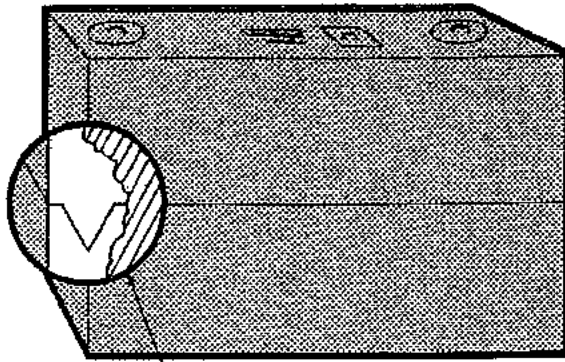
DRAWING NOT TO SCALE

2000 SEPTIC TANK, MONOLITHIC DWG
DATE CREATED: 10/05
UPDATED: -----

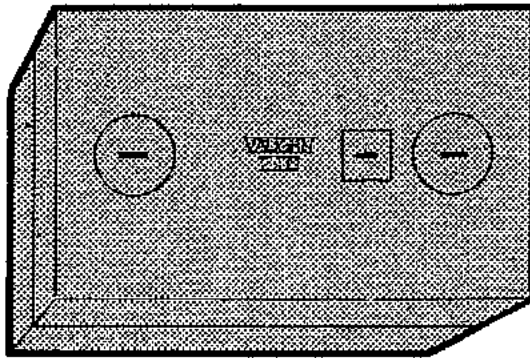
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concrete products, inc.

SEPTIC TANKS

Two Piece



Top Section Veers Into Bottom



Precast Concrete two-piece Septic Tank with 4" thick floor, 4" thick walls & 5" thick top. The tank side walls and floor are reinforced with 6x6x10 welded steel wire mesh with a 6" overlap. Top reinforced with 6x6x10 mesh. *Top for traffic is 9" thick.*

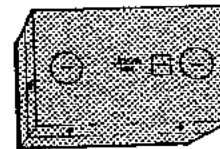
All tanks meet state and county health department requirements.

Manufactured with 4000 P.S.I. Concrete (minimum)

Sealed with Concrete Joint Sealant

To aid installation, inlets and outlets are available on sides and ends of tank.

Sizes: 1000 gallon
1250 gallon
1500 gallon
2000 gallon



Two-Piece Septic Tank Weights

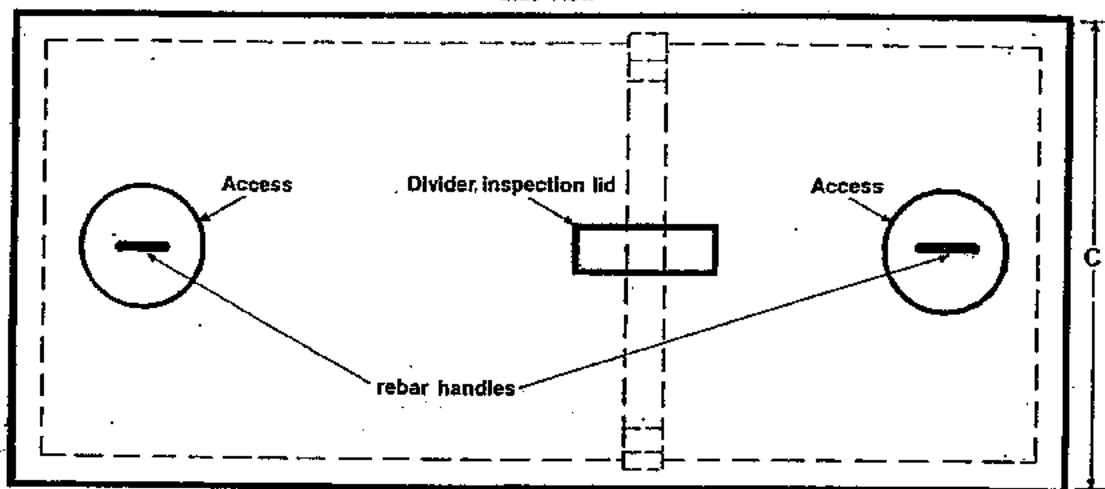
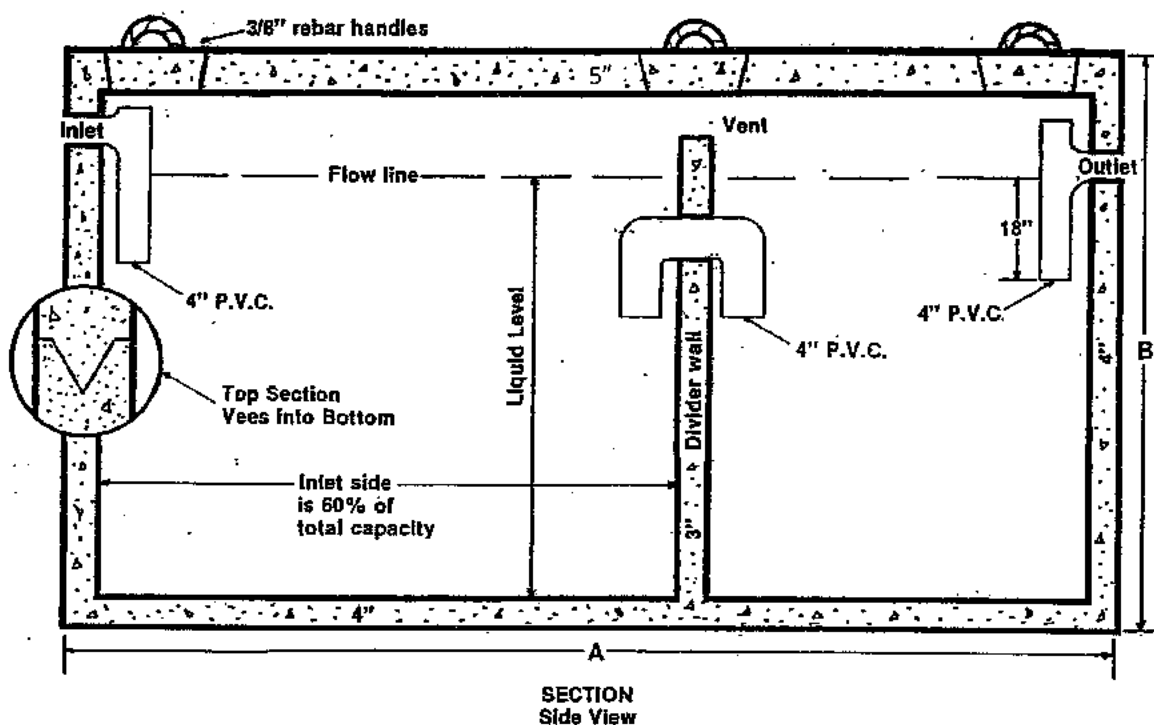
Capacity	Non-Traffic	Traffic
1000 Gallon	~9,440 Lbs.	N/A
1250 Gallon	~12,900 Lbs.	~15,200 Lbs.
1500 Gallon	~14,300 Lbs.	~17,100 Lbs.
2000 Gallon	~16,600 Lbs.	~19,400 Lbs.

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UPDATED 12/09

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TWO PIECE SEPTIC TANK Continued

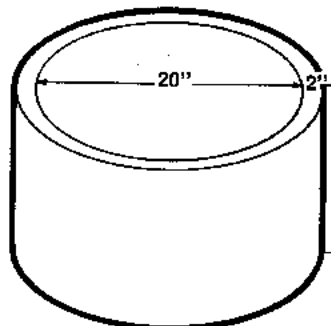


Tank Dimensions:	A	B	C	Digging specifications:	
1,000 gallon tank	7'10"	5'8"	5'8"	54 inches below inlet	6 1/2 ft. x 10 ft.
1,250 gallon tank	8'10"	5'8"	5'8"	54 inches below inlet	6 1/2 ft. x 12 ft.
1,500 gallon tank	10'6"	5'8"	5'8"	58 inches below inlet	6 1/2 ft. x 14 ft.
2,000 gallon tank	10'6"	7'2"	5'8"	76 inches below inlet	6 1/2 ft. x 14 ft.

Actual dimensions of concrete products may vary slightly

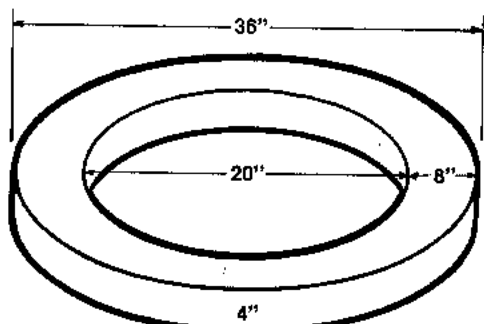
SEPTIC TANK RISER**Riser Lid**

24" diameter
2" thick
80 lbs.

**Riser Ring**

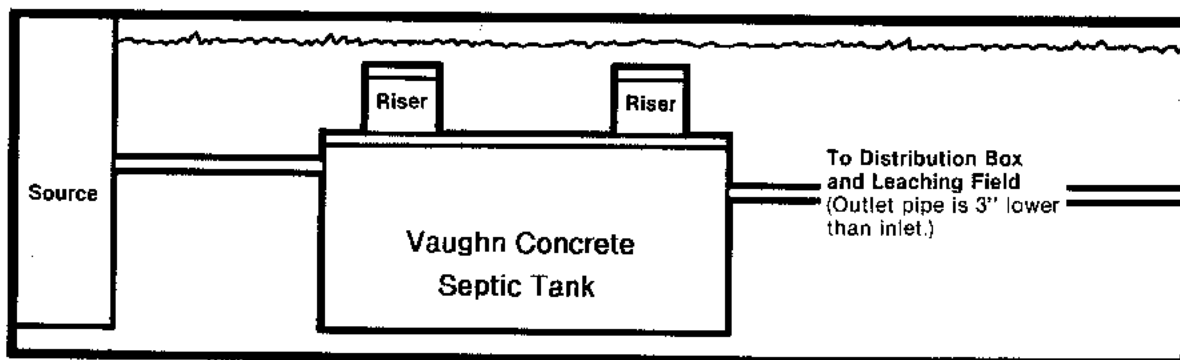
6"-70 lbs.
12"-140 lbs.
18"-210 lbs.
24"-280 lbs.

Sizes available:

**Precast Concrete****Riser Adaptor**

For use if septic tank lid openings are larger than 20" in diameter. Install adapter ring then use our riser rings and lid to bring to ground level.

250 lbs.



Actual dimensions of concrete products may vary slightly

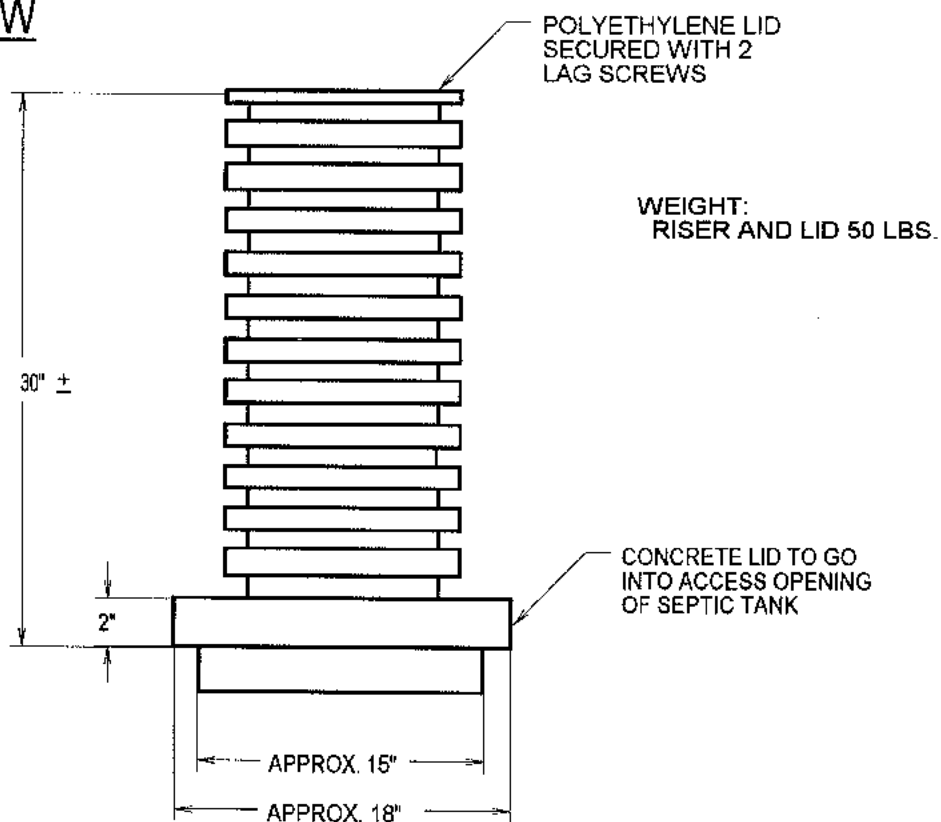
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SEPTIC TANK RISER

RIBBED HDPE PIPE (HIGH DENSITY POLYETHYLENE)
10" INSIDE DIAMETER WITH POLYETHYLENE LID

SECTION VIEW



PROVIDES APPROXIMATELY 30" FROM TOP OF TANK TO TOP OF RISER

CONTRACTOR CAN CUT RISER TO HEIGHT NEEDED

ACTUAL DIMENSION OF CONCRETE PRODUCTS MAY VARY SLIGHTLY
DRAWING IS NOT TO SCALE

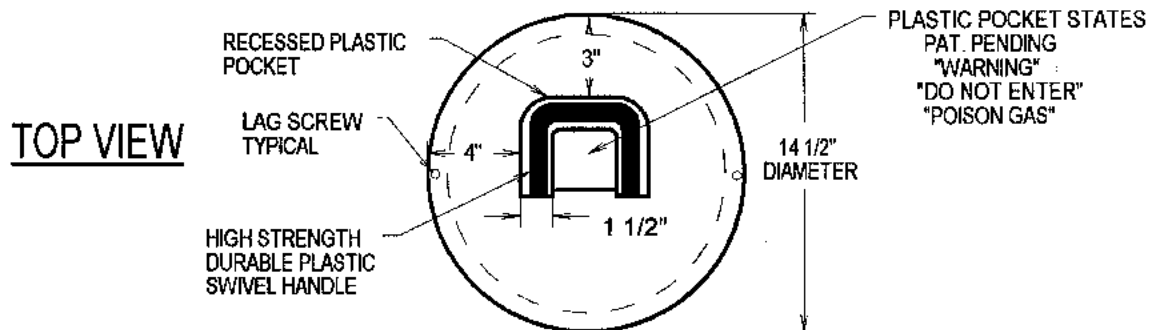
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11/97

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SEPTIC TANK RISER

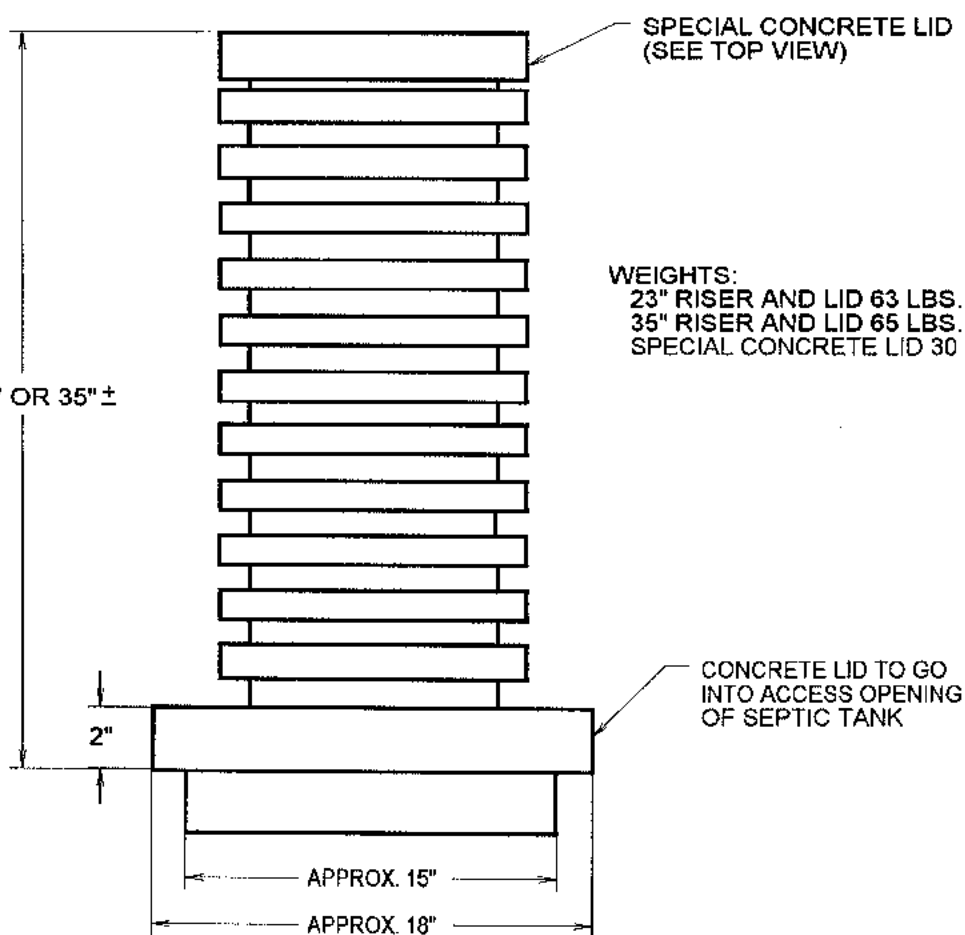
RIBBED HDPE PIPE (HIGH DENSITY POLYETHYLENE)
12" INSIDE DIAMETER WITH SPECIAL CONCRETE LID
WITH RECESSED SWIVEL HANDLE SECURED WITH 2 LAG SCREWS



SIDE VIEW

Note:
This 12" I.D.
Riser Satisfies
The 12" Requirements
of TNRCC
(Texas Natural
Resource Conservaion
Commision)

23" OR 35" ±



WEIGHTS:
23" RISER AND LID 63 LBS.
35" RISER AND LID 65 LBS.
SPECIAL CONCRETE LID 30 LBS.

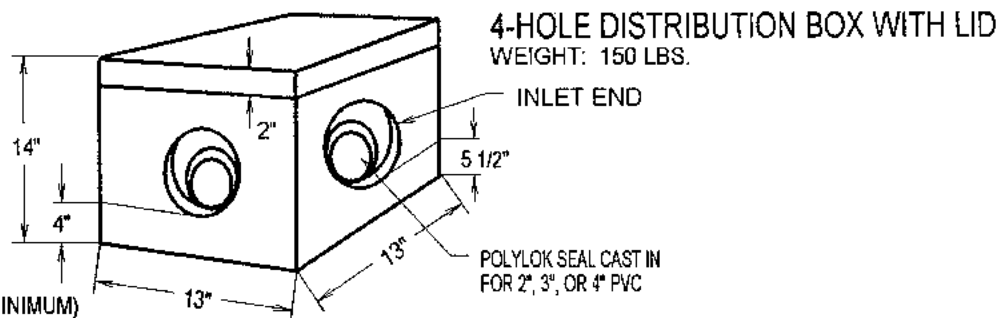
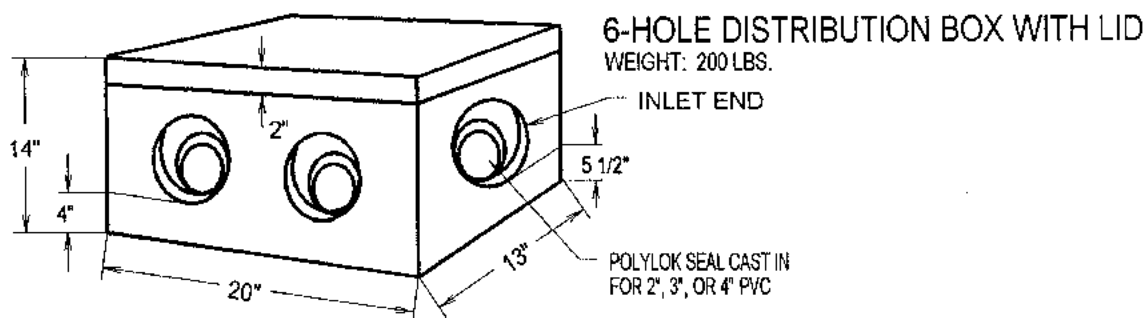
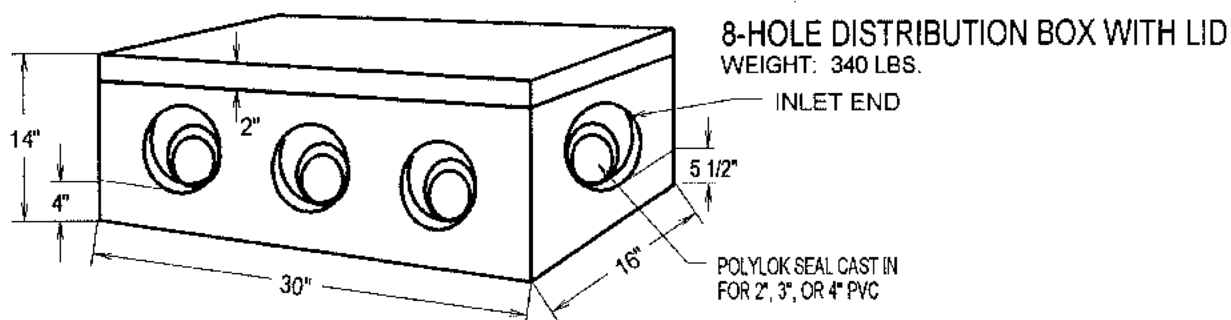
PROVIDES APPROXIMATELY 23" OR 35" FROM TOP OF TANK TO TOP OF RISER
CAN BE CUT TO HEIGHT NEEDED

ACTUAL DIMENSION OF CONCRETE PRODUCTS MAY VARY SLIGHTLY
DRAWING IS NOT TO SCALE

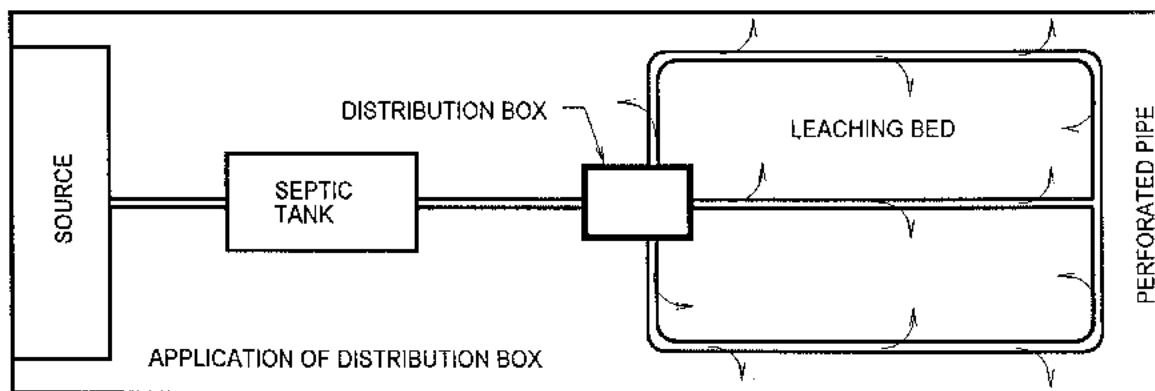
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PRECAST CONCRETE DISTRIBUTION BOXES WITH RECESSED POLYLOK GASKETS



CONCRETE - 4,000 P.S.I. (MINIMUM)
WIRE MESH REINFORCING



ACTUAL DIMENSION OF CONCRETE PRODUCTS MAY VARY SLIGHTLY
DRAWING IS NOT TO SCALE

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How To Properly Care For Your Home Septic System!



 **vaughn
concrete
products**

Understanding and caring for your home

Daily Tips For Long Lasting, Trouble-Free Service

How often should the septic tank be pumped?

Every 1 - 3 years, when the sludge in the tank is approaching the $\frac{1}{3}$ full mark. If more than this amount of sludge builds up, there is a chance that particles can get into the disposal field and clog the system. To ensure regular service, keep a maintenance record of your system.

How does the use of household water affect the system?

Conserve water. The more water that is used, the more that must be disposed of by the septic system drain fields. Buy water conserving appliances such as dishwashers and washing machines. Install water conserving showerheads and faucets. Avoid unnecessary flushing of the stool. Wash only full loads of clothes, and fix leaky faucets.

What are some of the common household habits that create problems in a septic tank?

When homeowners use their septic tank as a disposal. Grease is the worst thing in a system. Coffee grounds, bones, cooking fats, filter cigarette butts, disposable diapers, paper toweling, tissues, etc., should not be put into the system.

Can a garbage disposal be used?

Garbage disposals are not recommended, because the food particles fill up the septic tank faster, and food particles tend to clog the system. If a garbage disposal is used, plan to pump the septic system twice as often or increase the tank size by $\frac{1}{3}$.

Important – Check with the health department in your community for local regulations and requirements concerning home septic systems.

What affect does rain water run off have on the system?



It overloads the system. Since all water must be disposed of, do not have storm or clear water from the basement or roof go into the sewage treatment system.

What about the use of household cleaning products?

Moderate use of bleaches, cleansers and other household products will not harm your septic tank.

Is there any special type of toilet paper required?

White toilet paper **designed for septic tank use** is best, because there are no dyes that need to be broken down in white paper.

What else can I do to protect the system?

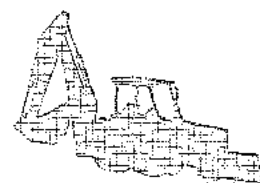
A properly designed and installed system will give you years of trouble-free service if you protect the system with **good daily habits and pump the septic tank regularly.**

What Safety Precautions Should Be Taken?

- **Absolutely never go into a septic tank.** Lethal gases build up in the tank that are overpowering and deadly. Call professionals if you have a problem with your system.
- Know where the manhole cover to the septic tank is located. It should be **earth covered or locked at all times.**
- Septic tanks that are no longer being used should be **filled with earth or rock.**

septic system . . . helps avoid problems.

How Can I Insure A Trouble-Free System When Building A Home?



Before purchasing any property, **obtain a soil boring and percolation test.** This test shows the suitability of the soil for a conventional private septic system. If the test reveals that the property is not suitable for a conventional system, you will be informed of alternate designs available. There is a charge for the test, but this investment insures you'll be able to install a private septic system on your land.

Have a professional licensed installer or engineer design and lay out your private septic system. The proper elevation, design, construction and maintenance will insure that the life of your septic system will be prolonged. Capacity is a very important consideration, and **at least a 1,000 gallon tank** is recommended for an average family home, depending upon the number of bedrooms. No part of the system should be under heavily traveled areas such as a driveway or patio.

Obtain septic tank and sanitary permits. Local regulations may require necessary permits before any building can begin. Often, you must provide a sketch or plot map of the system, showing building specifications meeting requirements such as distances from the house, well, etc.

Have a qualified, properly trained person install your system. Inspect the system regularly. Keep both a record of the complete system and a maintenance record for easy reference in the event problems occur with your system.

New Home Construction Checklist

- Obtain a soil boring and percolation test before purchasing property.
- Check with local authorities to ensure compliance with local requirements.
- Properly locate the septic system.
- Have easy access to the septic tank for pumping.

Checklist When Purchasing A Home With A Septic System

- Ask questions. Age of the system? Size of the system? Any previous problems? Ever backed into the house? Is there a maintenance record? When was the septic tank last pumped?
- Make sure the septic tank is accessible for pumping.
- Fully check the system. Locate the soil absorption field and check the grounds for seeping effluent.
- Have a professional check to make sure the septic system is properly sited.
- Determine what needs to be done, if anything, before you buy the house.

If you follow these guidelines and ask questions before you purchase or build a home, you should have a nearly trouble-free system.

What Are The Benefits Of Precast Concrete Septic Tanks?

- water tight
- proven long life
- durability - strength increases with age
- locally produced
- cold or hot weather placement
- will not corrode, rust or puncture

What Are The Components Of A Typical Home's Private Sewage Treatment System?

Septic Tank

The septic tank is a separating tank with 2 functions. The first is to separate solids from liquids. Septic tanks digest and break down solid wastes, 40% being reduced by anaerobic bacteria.

The second function is having liquids get to the drain field (trench, bed or seepage pit) where they are purified. First, liquids from the house go into the septic tank, then to the distribution box, finally reaching the drain field to be purified.

Some areas may require a two-compartment septic tank. A riser or risers may also be used to bring the tank opening closer to ground level.

Drain Fields/Absorption Systems

After being separated from the solids, the liquids which come from the septic tank (effluents) are disposed of in the soil absorption system. The effluent is purified by the soil before reaching ground water. You may need a lift pump station if the effluent cannot flow by gravity to the field.

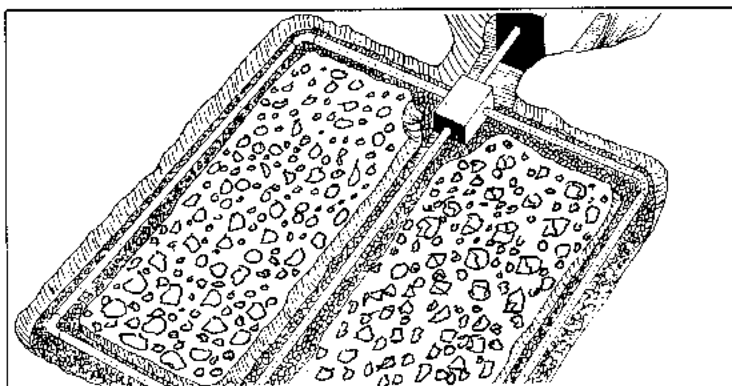
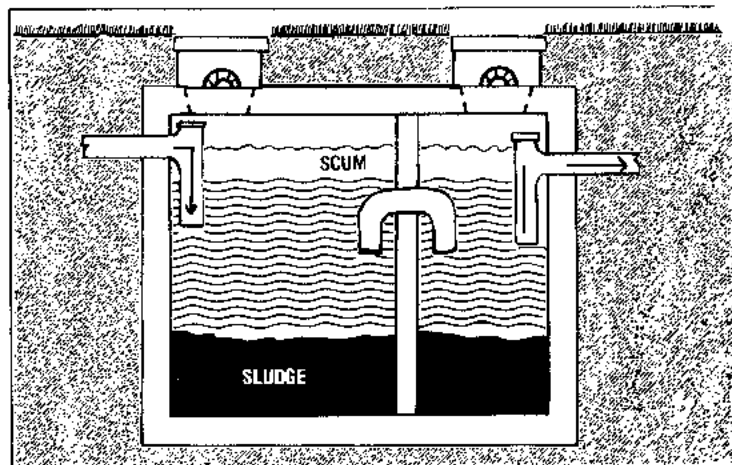
What Are Alternatives To A Typical System?

A pressure discharge system is an efficient design to dispose of septic tank effluent. This system is designed with 2 tanks for maximum cleaning of waste water.

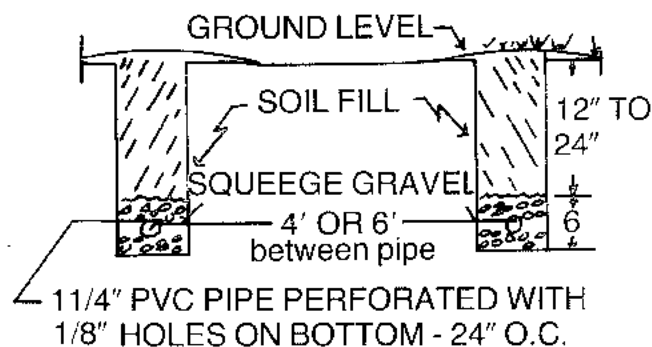
A pump in the final compartment of the second tank forces liquid through perforated pipe in controlled doses, so liquid discharges at the same time. This spreads the liquid evenly, allowing the field to dry out between dosings.

This system is economical, non-polluting, low maintenance, and a big help to most problem sites as well. A pressure discharge system is recommended for areas with high perc. rates, high water table or unlevel ground.

The discharge can be pumped to a leaching field 25' above the pump level. The field is a closed loop with a lateral tied together. There's no compaction on trenches. All surface draining is diverted off the leaching field.



CROSS-SECTION OF PRESSURE DISCHARGE LEACHING FIELD



Holding Tanks

A holding tank is not a septic system. Holding tanks are used only when an onsite wastewater disposal system cannot be installed on the property due to shallow bedrock, shallow ground

water, etc. A holding tank stores all household wastes. When the tank is filled, it must be pumped, and the wastes taken to an approved disposal field or municipal treatment plant.



Compliments of:

**vaughn
concrete
products**

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307-634-0695

PRECAST CONCRETE SEPTIC TANKS - LARGE CAPACITY

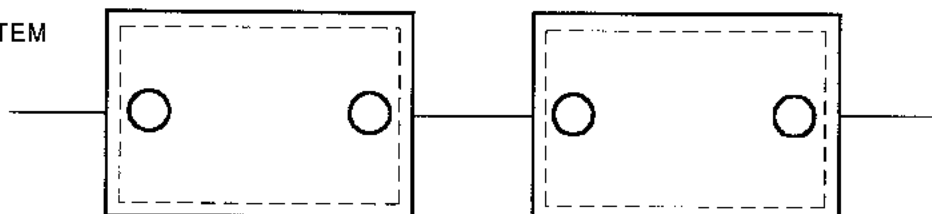
FOR LARGE CAPACITY SEPTIC TANKS, CAPACITIES UP TO 30,000 GALLONS

LARGEST SINGLE COMPARTMENT UNIT 12' WIDE X 20' LONG I.D. W/ 6' LIQUID DEPTH. THIS PROVIDES 10,000 GALLON CAPACITY. 3 OF THESE UNITS CAN BE INSTALLED IN A SERIES CONFIGURATION TO PROVIDE 30,000 GALLON CAPACITY. MANY SIZES AVAILABLE, SEE UTILITY PRODUCTS SECTION OF CATALOG UNDER RECTANGULAR VAULTS FOR ADDITIONAL VAULT SIZING INFORMATION

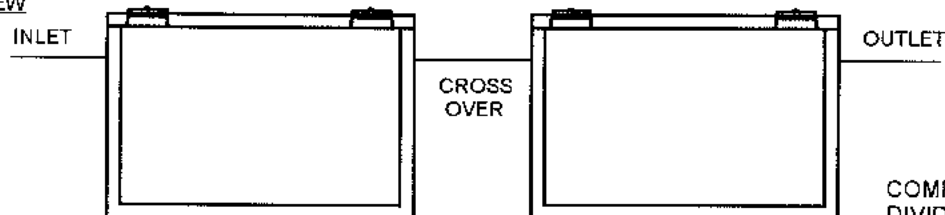
CONSULT VAUGHN CONCRETE PRODUCTS W/ YOUR SITE SPECIFIC INFORMATION FOR MOST COST EFFECTIVE CONFIGURATION

2 TANK SYSTEM

PLAN VIEW

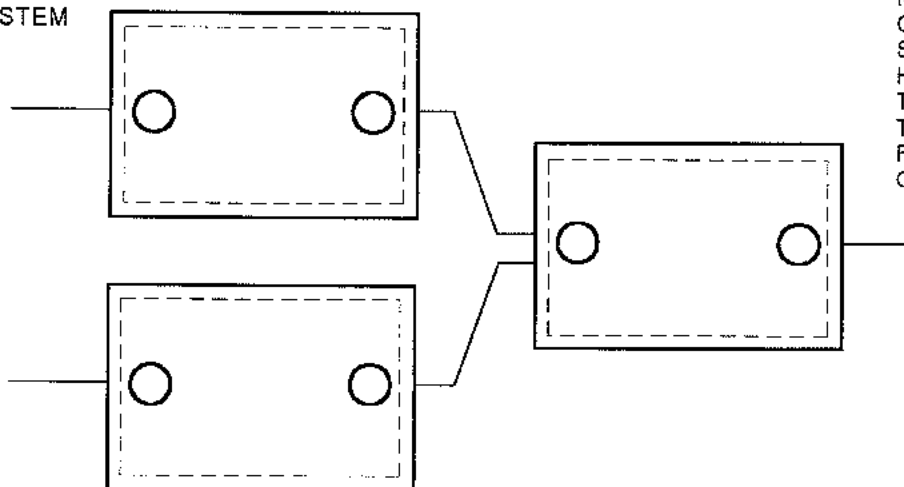


SECTION VIEW

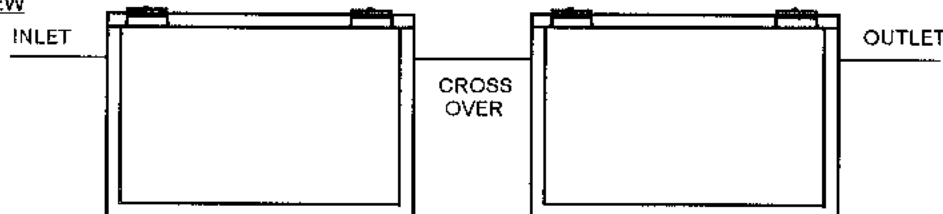


OR 3 TANK SYSTEM

PLAN VIEW



SECTION VIEW



COMPARTMENTATION DIVIDERS MAY BE PLACED IN TANKS, IT IS TYPICAL IN 2 COMPARTMENT SEPTIC TANKS TO HAVE HALF TO TWO THIRDS THE TOTAL TANK CAPACITY IN THE FIRST COMPARTMENT OF THE TANKS

DRAWING IS NOT TO SCALE
ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

UPDATED 12/99

CATSTSERIES.SKP

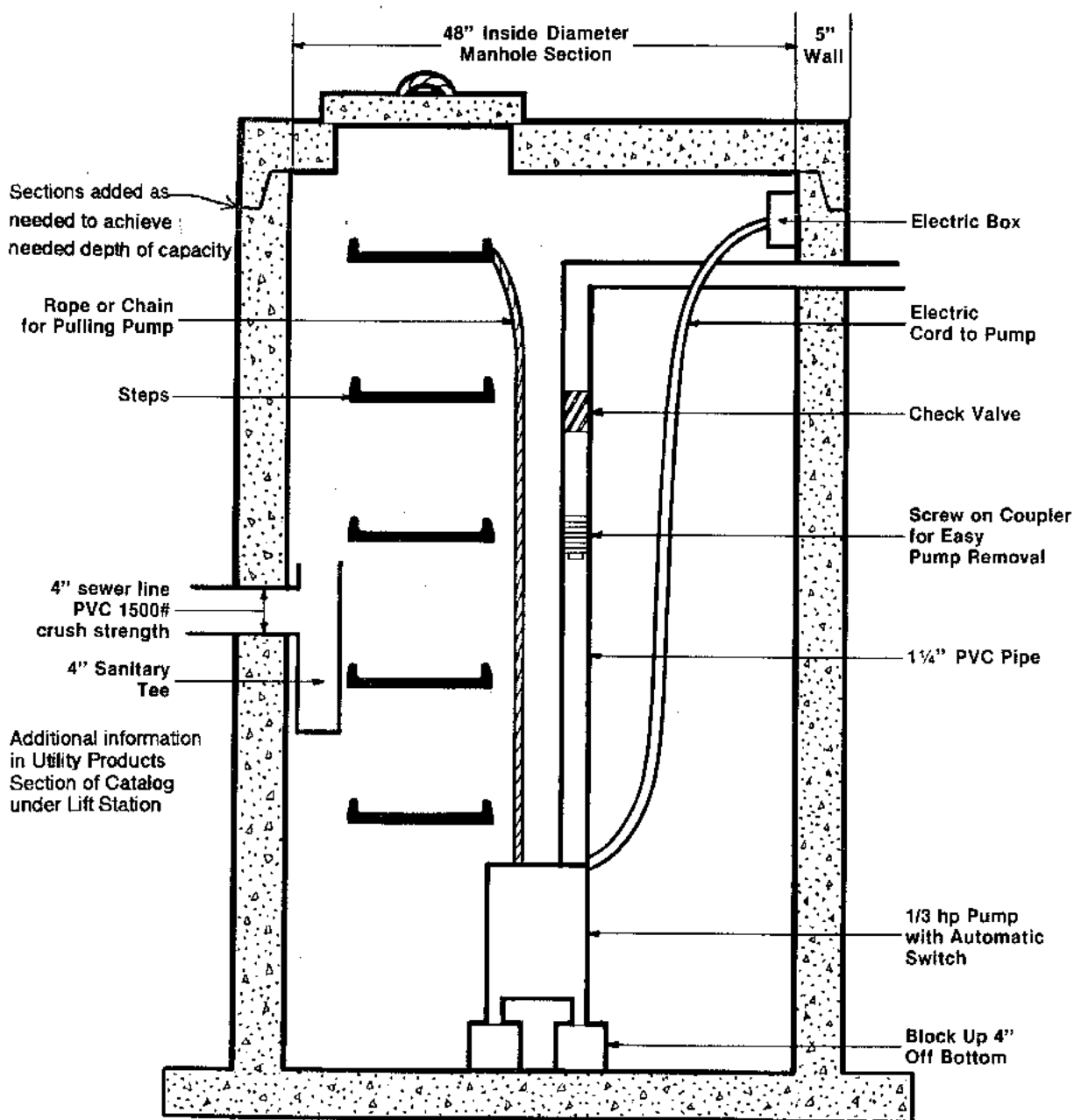
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Lift Station

Standard application using concrete manhole section and 1/3 hp pump for use when plumbing comes out of the house

too deep for gravity flow to leach bed. Station holds 100 gallons per ft. and extends life of leach bed.



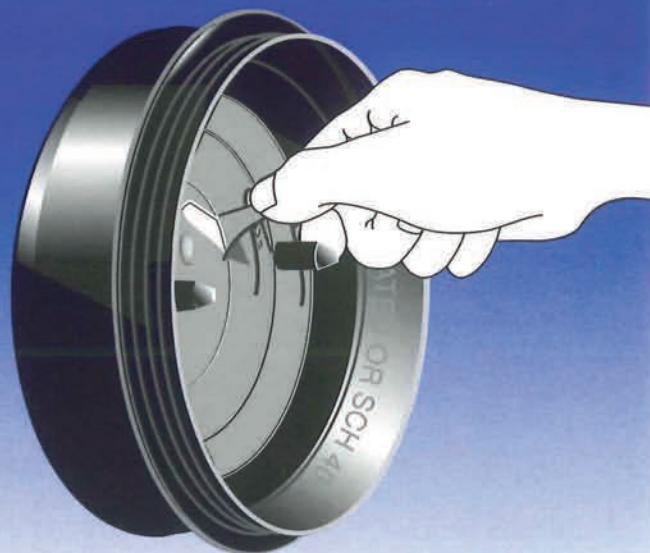
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POLYLOK'S NEWLY DESIGNED PIPE SEAL.

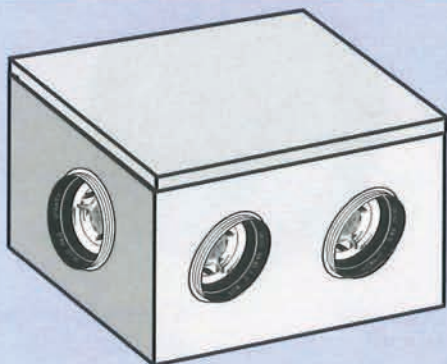
*Eliminated grouting around the pipe.
Quick and easy conversion to any existing form.*



All Products are Patent Pending or covered under existing Patents.

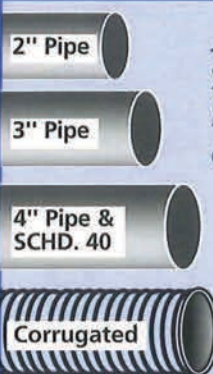
POLYLOK'S

New low pressure pipe seal can be used in any low pressure application.



With our NEW TEAR OUTS we've made it... **FOOL PROOF**. Just tear out the size you need and slide your pipe into the seal.

- Septic Tanks
- Distribution Boxes
- Drainage Boxes



Accommodates
2", 3", 4",
SCHD. 40 &
corrugated pipes.

FOR ADDITIONAL INFORMATION ON ANY PRODUCT, OR PRINTED MATERIAL CALL OUR TOLL FREE NUMBER LISTED BELOW.

- EQUALIZERS • BAFFLE READY PIPE SEALS • EFFLUENT FILTERS • BAFFLES • GAS DEFECTORS • STAINLESS STEEL SCREW NAILS • DIPPER SETS • ADAPTER PLUGS • RAIN DRAIN GRATES • LIFT HOLE PLUGS • STEEL MOLD'S FOR: THE DIPPER BOX, D-BOX / RAIN DRAIN CUSTOM D-BOXES • STEEL CLAMPS, LARGE & SMALL • CUSTOM ENGRAVED SIGNS
- HANDLES: RECESSED HINGED OR STATIONARY • WARNING SIGNS • CUSTOM SIGNS • SAFETY CAPS FOR REBAR

All items are in stock and ready for same day shipment.



A Precaster Working
For Precasters.

POLYLOKTM Inc.
173 Church Street, Yalesville, CT 06492
1-877-POLYLOK Fax (203) 265-4941
(765-9565) 1-800-234-3119
E-Mail Address: sales@polylok.com
Web site: www.polylok.com



*Your Source
For Precast Concrete
& Septic Products!*

U.S. Patent # 4805,902
Canada Patent # 1,278,568
Other Patents Pending

Made in U.S.A.

POLYLOK'S PIPE SEALS

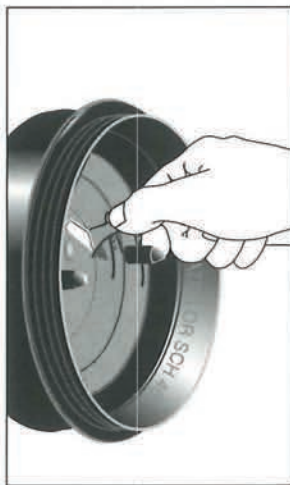
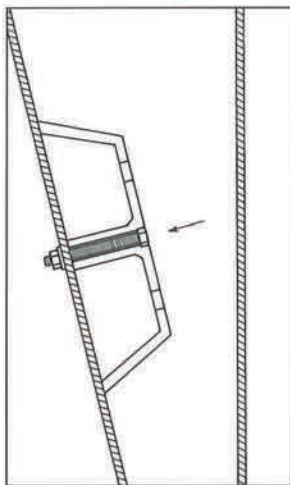
A LOW PRESSURE PIPE SEAL FOR SEPTIC TANKS, D-BOXES AND MORE.

ADVANTAGES OF USING POLYLOK SEALS:

- **RELIABLE**
Assures a fast, watertight connection...every time.
- **WATERTIGHT**
Prevents infiltration and exfiltration.
- **LABOR SAVING**
No grouting necessary for secure pipe connection.
- **ADAPTABLE**
Existing forms can be easily modified to accommodate Polylok.
- **COST EFFECTIVE**
The addition of low cost Polylok seals will reduce customer's labor costs and help increase your sales.
- **VERSATILITY**
One size Polylok seal fits all 2", 3", 4", and Sch#40 pipes, as well as 4" corrugated pipe.

Polylok Pipe Installation

1. Adaptor plug is cut to 1/8" less than the wall of the septic tank. Adapter is then attached with a single 3/8" carriage bolt.



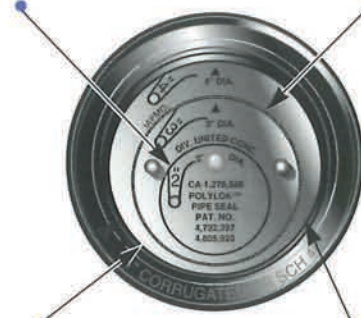
3. Once on job site, just tear out the size you need and slide your pipe into the seal.

2" Diameter pipe pullout

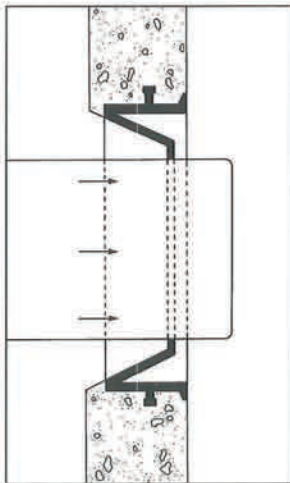
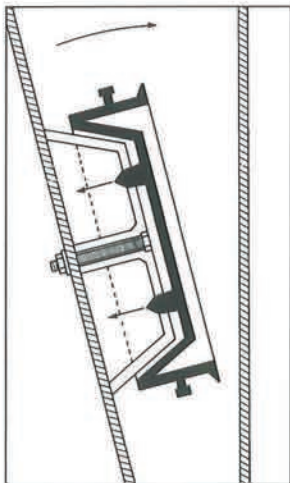
3" Diameter pullout

4" Smooth wall pipe pullout

4" corrugated pipe also schedule #40. pullout



2. Polylok snaps onto the adapter and is held securely by two "friction fit" positioning posts. Form is then closed and is ready to pour and strip.



4. Pipe is then inserted into the Polylok. No leaks. No grout. It's that simple.

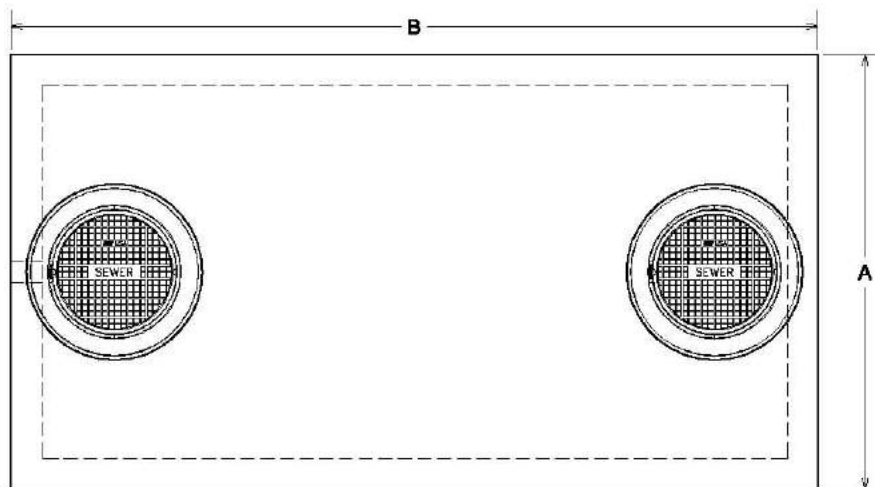
It's time to upgrade your product with the Polylok Pipe Seal...your customers will be glad you did. For more information on Polylok or any of our other products for the septic system call: 800-234-3119 EXT #20 & #29

PRECAST CONCRETE SEPTIC HOLDING TANKS

2000 GALLON & LARGER CAPACITIES

ALSO USED FOR SINGLE COMPARTMENT TANKS

PLAN VIEW



OUR STANDARD 24" DIAMETER CAST
IRON RINGS & COVERS, TYP. OF 2

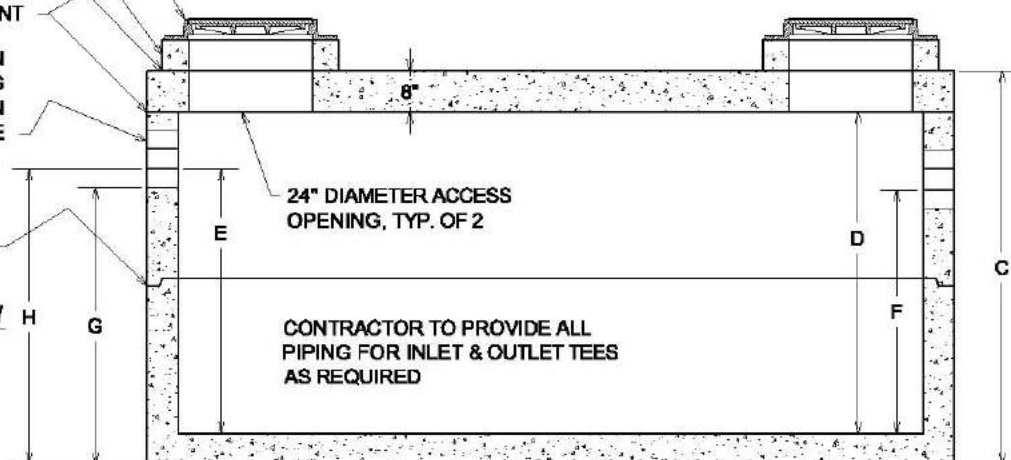
24" I.D. MANHOLE RISER AS REQUIRED
TO ADJUST RINGS & COVERS TO GRADE,
TYP. EACH ACCESS

CONSEAL JOINT SEALANT

11" DIAMETER OPENING CAST IN ON
INLET & OUTLET END, OPENING
CAN BE PROVIDED WITH PRESS-IN
GASKETS FOR 4", 6" OR 8" PIPE

CONSEAL JOINT SEALANT

SECTION VIEW



*"E", "F" & "H" DIMENSIONS:
ALL ARE TO THE PIPE INVERT

**"G" DIMENSION:
IS APPROXIMATE HEIGHT FROM
BOTTOM OF PRECAST UNIT TO
BOTTOM OF 11" HOLE, NOT TO
BOTTOM OF THE PIPE INVERT

**"H" DIMENSION:
IS FOR DIGGING INFORMATION ONLY, APPROXIMATE HEIGHT
FROM BOTTOM OF PRECAST UNIT TO THE PIPE INVERT,
EXCAVATION SHOULD ALLOW 1' ON EACH SIDE OF TANK FOR
SLING & LIFTING BOLT REMOVAL

WALLS & FLOOR TO BE 6" THICK

REINFORCED FOR AASHTO HS-20-44 LOADINGS
CONCRETE: 5000 P.S.I. MINIMUM

LARGER SIZE UNITS UP TO 30,000 GALLONS ARE
AVAILABLE - CALL FOR INFORMATION

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

SEPTIC HOLDING TANK DIMENSIONS

	2000	2500	3000	3500	4000
A	7'-0"	7'-0"	7'-0"	7'-0"	7'-0"
B	13'-0"	13'-0"	13'-0"	17'-0"	17'-0"
C	76"	88"	100"	89"	98"
D	62"	74"	86"	75"	84"
E (4" PIPE)	51"	63"	75"	64"	73"
E (6" PIPE)	50"	62"	74"	63"	72"
E (8" PIPE)	49"	61"	73"	62"	71"
F (4" PIPE)	47"	59"	71"	60"	69"
*G	53-1/2"	65-1/2"	77-1/2"	66-1/2"	75-1/2"
DIGGING DEPTH INFORMATION					
**H (4" PIPE)	57"	69"	81"	70"	79"
**H (6" PIPE)	56"	68"	80"	69"	78"
**H (8" PIPE)	55"	67"	79"	68"	77"
TOTAL APPROXIMATE WEIGHTS (IN LBS)					
	31,500	34,900	38,200	43,500	46,800
HEAVIEST PIECE (MAX. WEIGHT) BASED ON EQUAL HEIGHT SECTIONS (IN LBS)					
	15,000	16,200	17,400	20,500	22,000

DRAWING IS NOT TO SCALE

2000+ GAL SEPTIC HOLDING TANK.DWG
DATE CREATED: 11/05
UPDATED: _____

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PRECAST CONCRETE SMALL WELL PIT

STANDARD UNIT NOT FOR TRAFFIC LOADINGS

TANK WITHSTANDS UP TO 6 FT. OF BURY

MONOLITHIC BODY WITH 4" WALLS & REMOVABLE LID

OPTIONS:

- 30" I.D. (36" O.D.) X 12" TALL WELL PIT RISER
- 36" DIAMETER CONCRETE ACCESS LID
- 30" DIAMETER CAST IRON RING & COVER TO SET ON TOP OF OPENING IN LID
- JOINT SEALANT TO GO BETWEEN SECTIONS

36" DIAMETER CONCRETE ACCESS LID TO FIT OVER 30" DIAMETER ACCESS OPENING (OPTIONAL ITEM, MUST BE ORDERED SEPARATELY)

30" I.D. (36" O.D.) X 12" TALL WELL PIT RISER (OPTIONAL ITEM, MUST BE ORDERED SEPARATELY)

LID PROVIDED WITH 4 REBAR LIFT LOOPS

EXCAVATION TO BE PROPERLY PREPARED WITH SUITABLE MATERIAL TO PLACE STRUCTURE ONTO

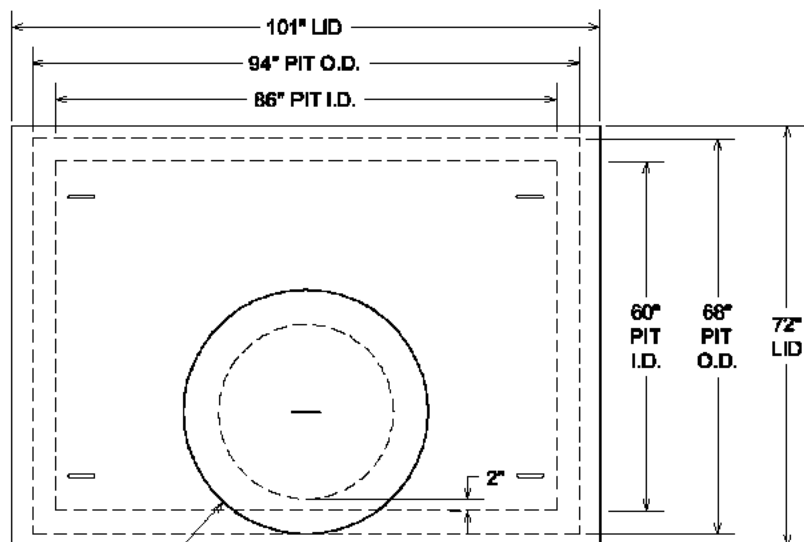
WELL PIT WEIGHTS:

WELL PIT LID : 2,800 LBS.
STANDARD TANK : 8,000 LBS.

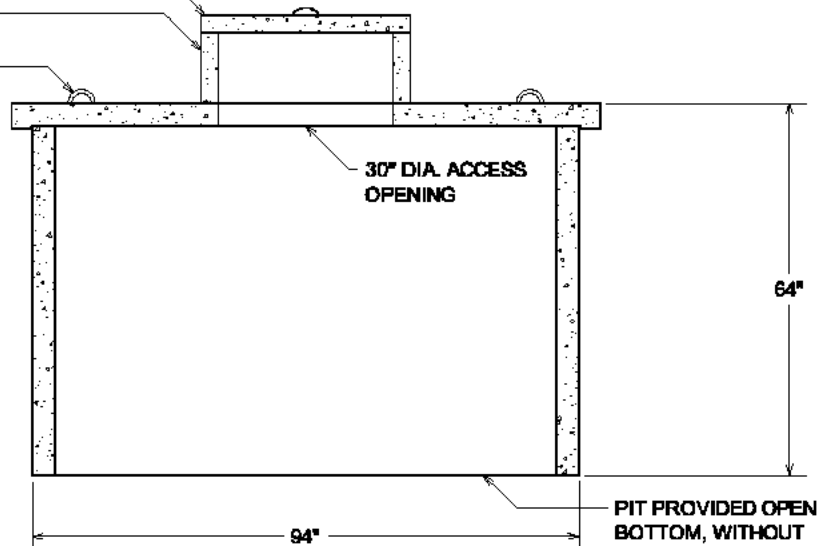
CONCRETE : 4,000 P.S.I. (MINIMUM)

REINFORCING : REBAR & WELDED WIRE FABRIC

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY



PLAN VIEW



SECTION VIEW

DRAWING IS NOT TO SCALE

SMALL WELL PIT/DWG
DATE CREATED: 12/06
UPDATED: -----

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PRECAST CONCRETE LARGE WELL PIT

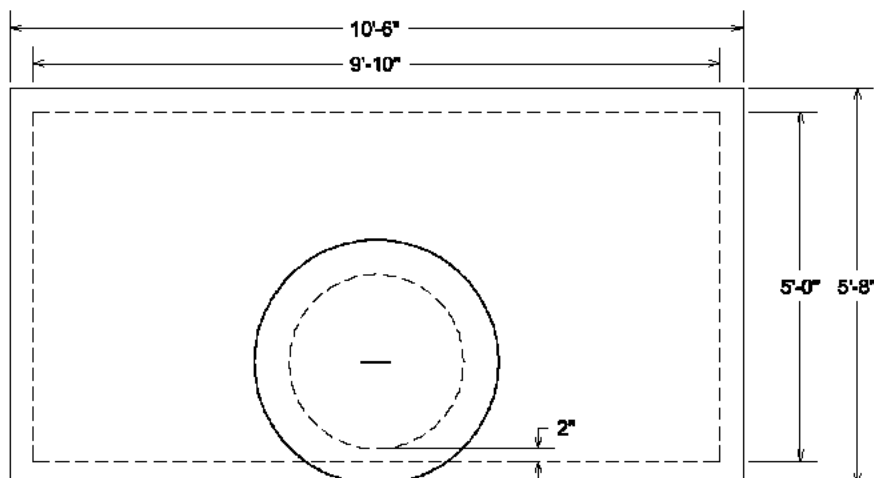
**STANDARD UNIT
NOT FOR TRAFFIC LOADINGS**

**4" THICK FLOOR,
WALLS* & ROOF**

*WALLS TO TAPER SLIGHTLY TO
LESS THICKNESS AT THE JOINT

OPTIONS:

- 30" I.D. (36" O.D.) X 12" TALL WELL PIT RISER
- 36" DIAMETER CONCRETE ACCESS LID
- 30" DIAMETER CAST IRON RING & COVER
TO SET ON TOP OF LID OPENING
- 18" TALL SPACER FOR INCREASED
INSIDE HEIGHT

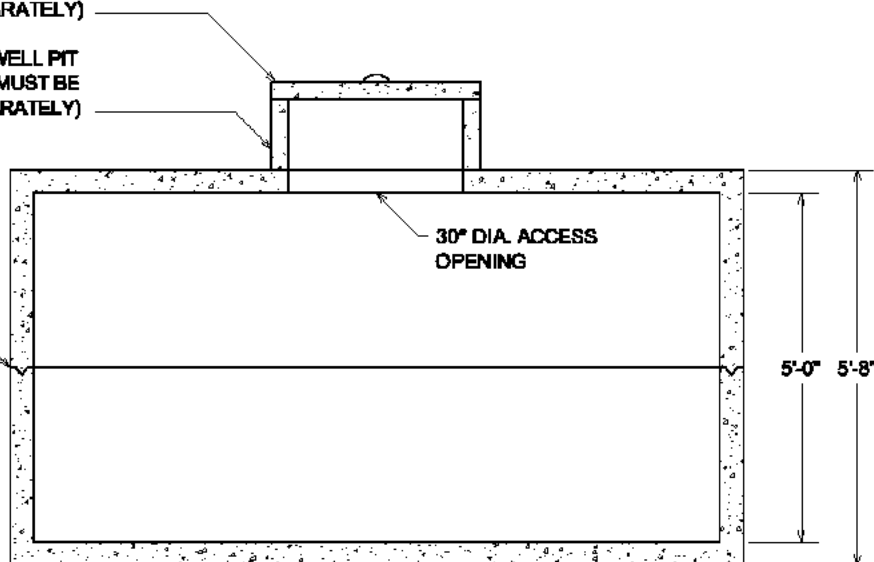


PLAN VIEW

36" DIAMETER CONCRETE ACCESS LID TO
FIT OVER 30" DIAMETER ACCESS OPENING
(OPTIONAL ITEM, MUST BE ORDERED
SEPARATELY)

30" I.D. (36" O.D.) X 12" TALL WELL PIT
RISER (OPTIONAL ITEM, MUST BE
ORDERED SEPARATELY)

JOINT SEALANT PLACED
BETWEEN SECTIONS



SECTION VIEW

EXCAVATION TO BE PROPERLY PREPARED
WITH SUITABLE MATERIAL TO PLACE
STRUCTURE ONTO

WELL PIT WEIGHTS:

WELL PIT WEIGHT AS SHOWN : 13,200 LBS.
OPTIONAL SPACER WEIGHT : 2,300 LBS.

CONCRETE : 4,000 P.S.I. (MINIMUM)

REINFORCING : REBAR & WELDED WIRE FABRIC

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

DRAWING IS NOT TO SCALE

**Vaughn
concrete products, inc.**

LARGE WELL PIT.DWG
DATE CREATED: 12/06
UPDATED: -----

12650 Tucson Street • Henderson, Colorado 80640 • 303-659-3747, Fax 303-659-1333
2671 South Greeley Hwy • Cheyenne, Wyoming 82007 • 307-634-0695, Fax 307-634-0694
10021 Amarillo Blvd East • Amarillo, Texas 79108 • 806-374-3747, Fax 806-335-3717

PRECAST CONCRETE TANK WITH 4" OR THINNER FLOOR INSTALLATION GUIDELINES/INSTRUCTIONS

THE ITEMS LISTED HERE ARE BASIC GUIDELINES/INSTRUCTIONS. THE EXCAVATOR/INSTALLER MUST PERFORM THE WORK, BUT ONLY IN AREAS OF THEIR OWN COMPETENCE. IF ANY PORTION OF THE PROCESS OR CRITERIA FALLS OUTSIDE OF YOUR AREA OF COMPETENCE, PLEASE CONSULT WITH A REGISTERED ENGINEER.

SITE CONDITIONS

THE SITE MUST BE ACCESSIBLE TO LARGE, HEAVY TRUCKS.

THE SITE MUST BE FREE OF ITEMS LIKE TREES, OVERHEAD WIRES & BUILDINGS THAT COULD INTERFERE WITH ACCESS TO THE EXCAVATION. PLACEMENT OF THE TANK REQUIRES THE BACK OF OUR DELIVERY TRUCKS TO BE ON STABLE GROUND AND WITHIN THE FOLLOWING REACHES:

- MONORAIL TRUCK DELIVERIES: 7'-6" FROM THE BACK OF OUR MONORAIL TRUCK ON STABLE GROUND TO THE CENTER OF THE EXCAVATION
 - BOOM TRUCK DELIVERIES: 12'-0" FROM THE BACK OF OUR BOOM TRUCK ON STABLE GROUND TO THE CENTER OF THE EXCAVATION
- ALL TANKS MUST SET DIRECTLY OFF THE BACK OF OUR TRUCKS. EACH DELIVERY TRUCK IS APPROXIMATELY 45 FT. LONG AND 14 FT. HIGH.

EXCAVATION

EXCAVATION SHOULD ALLOW FOR APPROXIMATELY 8" (MINIMUM) TO 18" OF CLEARANCE ON EACH SIDE OF THE TANK TO ALLOW FOR REMOVAL OF OUR LIFTING APPARATUS. THIS MAY VARY WITH SOIL CONDITIONS. NEVER ENTER AN UNSAFE EXCAVATION.

ONCE THE EXCAVATION HAS BEEN COMPLETED AND THE OUTSIDE PERIMETER OF THE TANK HAS BEEN LOCATED AND LEVELLED, IT IS NECESSARY THAT THE EXCAVATION DIRECTLY BELOW THE TANK SLOPES DOWNWARD UNIFORMLY APPROXIMATELY 1" - 1½" FROM THE OUTSIDE PERIMETER OF THE TANK TO THE CENTER OF THE TANK TO PREVENT UNDUE PRESSURE AT THE CENTER OF THE TANK FLOOR.

BEDDING

PROPER USE OF BEDDING MATERIAL IS IMPORTANT TO ENSURE SERVICE LIFE OF THE TANK. BEDDING AND SOIL BENEATH THE TANK MUST BE STABLE AND CAPABLE OF BEARING THE WEIGHT OF THE TANK, ITS CONTENTS AND THE SOIL AND OTHER ITEMS COVERING THE TOP OF THE TANK. BEDDING

MATERIALS SHALL HAVE THE ABILITY TO 100% PASS THROUGH A ¾" SCREEN. BEDDING THICKNESS SHALL BE A MINIMUM OF 4" COMPACTED. THICKNESS MAY NEED TO BE INCREASED DEPENDANT UPON EXISTING SOIL CONDITIONS. IT IS THE EXCAVATOR/INSTALLER'S RESPONSIBILITY TO HAVE A SOIL ANALYSIS AND ENGINEERING DONE IF THEY ARE UNSURE IF THE SOIL IS SUITABLE. IT IS CRITICAL THAT THE BEDDING DOES NOT HAVE ANY HIGH SPOTS IN THE CENTER THAT WOULD CAUSE UNDUE STRESS AT ANY POINT ON THE TANK FLOOR.

JOINT SEALANT (IF USED)

JOINT SURFACE NEEDS TO BE CLEAN AND SEALANT NEEDS TO BE PLACED ACCORDING TO MANUFACTURERS RECOMMENDATIONS. IT IS IMPERATIVE TO OVERLAP THE JOINTS OF THE SEALANT, ONE DIRECTLY ON TOP OF THE OTHER AT LEAST 1½" (NOT SIDE BY SIDE) TO ENSURE A WATER TIGHT SEAL.

WATER TABLE

TANKS PLACED WHERE WATER LEVELS CAN POTENTIALLY BE HIGHER THAN THE ELEVATION OF THE TANK FLOOR OR TOP, MUST BE BROUGHT TO THE ATTENTION OF VAUGHN CONCRETE PRODUCTS, INC. PRIOR TO ORDERING THE TANK. ADDITIONAL INSTALLATION INSTRUCTIONS SUCH AS BALLAST AND COATING MAY BE REQUIRED.

WATER LEAK OR VACUUM TESTING

TO ENSURE THAT THE TANK IS WATER TIGHT, IT MUST BE WATER OR VACUUM TESTED PRIOR TO BACKFILL.

BACKFILL MATERIAL

THE SIDE WALLS OF TANKS REQUIRE DRY BACKFILL MATERIALS THAT HAVE THE ABILITY TO 100% PASS THROUGH A 2" SCREEN. A MINIMUM OF 8" OF SUITABLE BACKFILL MATERIAL ON ALL SIDES IS REQUIRED FROM THE BOTTOM TO THE TOP OF THE TANK. EXPANSIVE BACKFILL MATERIAL SHOULD NOT BE USED. BACKFILL MATERIAL SHALL BE PLACED WITH A BACKHOE OR OTHER MEANS THAT WILL AVOID IMPACT LOADS ON THE SIDE WALLS OF THE TANK. MINIMAL COMPACTION OF BACKFILL MATERIAL IS PERMITTED ON THE SIDE WALLS OF THE TANK. CARE MUST BE USED AS COMPACTING OR WHEEL COMPACTING CAN CAUSE EXCESSIVE PRESSURES TO THE SIDE WALLS OF THE TANK AND CAN CAUSE FAILURE. IF MORE THAN 85% PROCTOR COMPACTION IS REQUIRED, USE ¾" OR ¾" GRAVEL OR OTHER SELF-COMPACTING MATERIAL FOR YOUR BACKFILL MATERIAL.

COVER MATERIAL

COVER MATERIAL SHALL BE DRY SOIL, SAND OR GRAVEL MATERIAL THAT HAS THE ABILITY TO 100% PASS THROUGH A 2" SCREEN. CARE MUST BE USED AS COMPACTING OR WHEEL COMPACTING CAN CAUSE EXCESSIVE PRESSURES TO THE TOP OF THE TANK AND CAN CAUSE FAILURE. COVER MATERIALS SHALL BE MOUNDED OVER THE TANK AND AROUND RISERS TO DIRECT RUN-OFF AWAY FROM BOTH.

PLEASE CONSULT WITH A VAUGHN CONCRETE PRODUCTS REPRESENTATIVE WITH ANY QUESTIONS OR CONCERNS TOLL FREE @ 1-877-827-8255

VISIT US ON THE WEB @ www.vaughnconcreteproducts.com

**vaughn
concrete products, inc.**

INSTALLATION GUIDELINES-4 INCH.DWG
DATE CREATED: 12/07
DATE MODIFIED: 12/08

12650 Tucson Street • Henderson, Colorado 80640 • 303-659-3747, Fax 303-659-1333
2671 South Greeley Hwy • Cheyenne, Wyoming 82007 • 307-634-0695, Fax 307-634-0694
10021 Amarillo Blvd East • Amarillo, Texas 79108 • 806-374-3747, Fax 806-335-3717

www.vaughnconcreteproducts.com

PRECAST CONCRETE STRUCTURE WITH 6" OR THICKER FLOOR INSTALLATION GUIDELINES/INSTRUCTIONS

THE ITEMS LISTED HERE ARE BASIC GUIDELINES/INSTRUCTIONS. THE EXCAVATOR/INSTALLER MUST PERFORM THE WORK, BUT ONLY IN AREAS OF THEIR OWN COMPETENCE. IF ANY PORTION OF THE PROCESS OR CRITERIA FALLS OUTSIDE OF YOUR AREA OF COMPETENCE, PLEASE CONSULT WITH A REGISTERED ENGINEER.

SITE CONDITIONS

THE SITE MUST BE ACCESSIBLE TO LARGE, HEAVY TRUCKS.

THE SITE MUST BE FREE OF ITEMS LIKE TREES, OVERHEAD WIRES & BUILDINGS THAT COULD INTERFERE WITH ACCESS TO THE EXCAVATION. PLACEMENT OF THE STRUCTURE REQUIRES THE BACK OF OUR DELIVERY TRUCKS TO BE ON STABLE GROUND AND WITHIN THE FOLLOWING REACHES:

- MONORAIL TRUCK DELIVERIES: 7'-6" FROM THE BACK OF OUR MONORAIL TRUCK ON STABLE GROUND TO THE CENTER OF THE EXCAVATION

- BOOM TRUCK DELIVERIES: 12'-0" FROM THE BACK OF OUR BOOM TRUCK ON STABLE GROUND TO THE CENTER OF THE EXCAVATION

ALL STRUCTURES MUST SET DIRECTLY OFF THE BACK OF OUR TRUCKS. EACH DELIVERY TRUCK IS APPROXIMATELY 45 FT. LONG AND 14 FT. HIGH.

EXCAVATION

EXCAVATION SHOULD ALLOW FOR APPROXIMATELY 8" (MINIMUM) TO 18" OF CLEARANCE ON EACH SIDE OF THE STRUCTURE TO ALLOW FOR REMOVAL OF OUR LIFTING APPARATUS. THIS MAY VARY WITH SOIL CONDITIONS. NEVER ENTER AN UNSAFE EXCAVATION.

BEDDING

PROPER USE OF BEDDING MATERIAL IS IMPORTANT TO ENSURE SERVICE LIFE OF THE STRUCTURE. BEDDING AND SOIL BENEATH THE STRUCTURE MUST BE STABLE AND CAPABLE OF BEARING THE WEIGHT OF THE STRUCTURE, ITS CONTENTS AND THE SOIL AND OTHER ITEMS COVERING THE TOP OF THE STRUCTURE. BEDDING MATERIALS SHALL HAVE THE ABILITY TO 100% PASS THROUGH A $\frac{3}{4}$ " SCREEN. BEDDING THICKNESS SHALL BE A MINIMUM OF 4" COMPACTED. THICKNESS MAY NEED TO BE INCREASED DEPENDANT UPON EXISTING SOIL CONDITIONS. IT IS THE EXCAVATOR/INSTALLER'S RESPONSIBILITY TO HAVE A SOIL ANALYSIS AND ENGINEERING DONE IF THEY ARE UNSURE IF THE SOIL IS SUITABLE. IT IS CRITICAL THAT THE BEDDING DOES NOT HAVE ANY HIGH SPOTS IN THE CENTER THAT WOULD CAUSE UNDUE STRESS AT ANY POINT ON THE STRUCTURE FLOOR.

JOINT SEALANT (IF USED)

JOINT SURFACE NEEDS TO BE CLEAN AND SEALANT NEEDS TO BE PLACED ACCORDING TO MANUFACTURERS RECOMMENDATIONS. IT IS IMPERATIVE TO OVERLAP THE JOINTS OF THE SEALANT, ONE DIRECTLY ON TOP OF THE OTHER AT LEAST 1 $\frac{1}{2}$ " (NOT SIDE BY SIDE) TO ENSURE A WATER TIGHT SEAL.

WATER TABLE

STRUCTURES PLACED WHERE WATER LEVELS CAN POTENTIALLY BE HIGHER THAN THE ELEVATION OF THE STRUCTURE FLOOR OR TOP, MUST BE BROUGHT TO THE ATTENTION OF VAUGHN CONCRETE PRODUCTS, INC. PRIOR TO ORDERING THE STRUCTURE.

ADDITIONAL INSTALLATION INSTRUCTIONS SUCH AS BALLAST AND COATING MAY BE REQUIRED.

WATER LEAK OR VACUUM TESTING

TO ENSURE THAT THE STRUCTURE IS WATER TIGHT, IT MUST BE WATER OR VACUUM TESTED PRIOR TO BACKFILL.

BACKFILL MATERIAL

THE SIDE WALLS OF STRUCTURES REQUIRE DRY BACKFILL MATERIALS THAT HAVE THE ABILITY TO 100% PASS THROUGH A 2" SCREEN. A MINIMUM OF 8" OF SUITABLE BACKFILL MATERIAL ON ALL SIDES IS REQUIRED FROM THE BOTTOM TO THE TOP OF THE STRUCTURE. EXPANSIVE BACKFILL MATERIAL SHOULD NOT BE USED. BACKFILL MATERIAL SHALL BE PLACED WITH A BACKHOE OR OTHER MEANS THAT WILL AVOID IMPACT LOADS ON THE SIDE WALLS OF THE STRUCTURE. MINIMAL COMPACTION OF BACKFILL MATERIAL IS PERMITTED ON THE SIDE WALLS OF THE STRUCTURE. CARE MUST BE USED AS COMPACTION OR WHEEL COMPACTION CAN CAUSE EXCESSIVE PRESSURES TO THE SIDE WALLS OF THE STRUCTURE AND CAN CAUSE FAILURE. IF MORE THAN 85% PROCTOR COMPACTION IS REQUIRED, USE $\frac{3}{8}$ " OR $\frac{1}{2}$ " GRAVEL OR OTHER SELF-COMPACTING MATERIAL FOR YOUR BACKFILL MATERIAL.

COVER MATERIAL

COVER MATERIAL SHALL BE DRY SOIL, SAND OR GRAVEL MATERIAL THAT HAS THE ABILITY TO 100% PASS THROUGH A 2" SCREEN. CARE MUST BE USED AS COMPACTION OR WHEEL COMPACTION CAN CAUSE EXCESSIVE PRESSURES TO THE TOP OF THE STRUCTURE AND CAN CAUSE FAILURE. COVER MATERIALS SHALL BE MOUNDED OVER THE STRUCTURE AND AROUND RISERS TO DIRECT RUN-OFF AWAY FROM BOTH.

PLEASE CONSULT WITH A VAUGHN CONCRETE PRODUCTS REPRESENTATIVE WITH ANY QUESTIONS OR CONCERNS TOLL FREE @ 1-877-827-8255

VISIT US ON THE WEB @ www.vaughnconcreteproducts.com

**vaughn
concrete products, inc.**

INSTALLATION GUIDELINES-6 INCH.DWG
DATE CREATED: 12/08

12650 Tucson Street • Henderson, Colorado 80640 • 303-659-3747, Fax 303-659-1333
2671 South Greeley Hwy • Cheyenne, Wyoming 82007 • 307-634-0695, Fax 307-634-0694
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www.vaughnconcreteproducts.com

PRECAST CONCRETE ABOVE GROUND (AG)

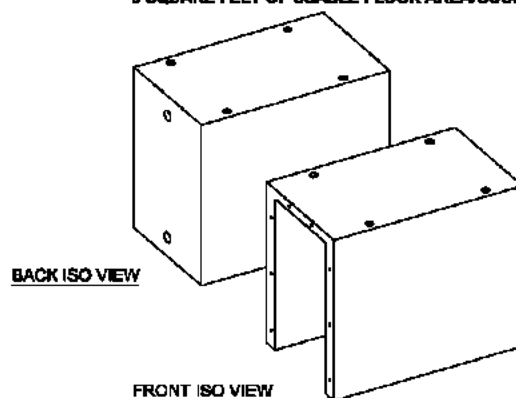
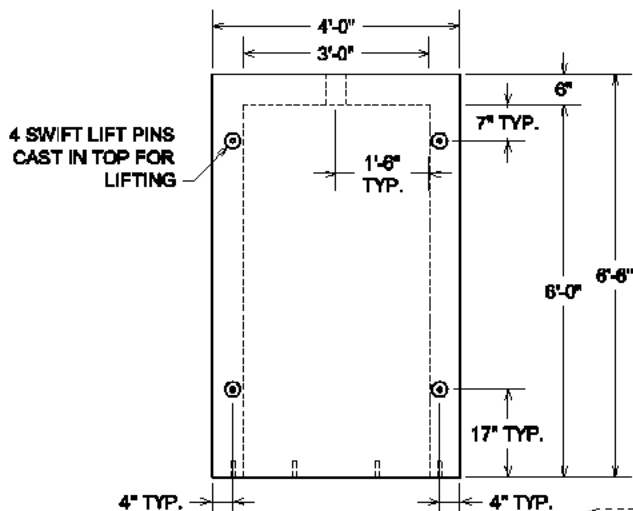
STORM SHELTER

LOCALLY MANUFACTURED, PRECAST CONCRETE SHELTER WITH STEEL DOOR,
BOTH CERTIFIED TO MEET NSSA/ICC STANDARDS

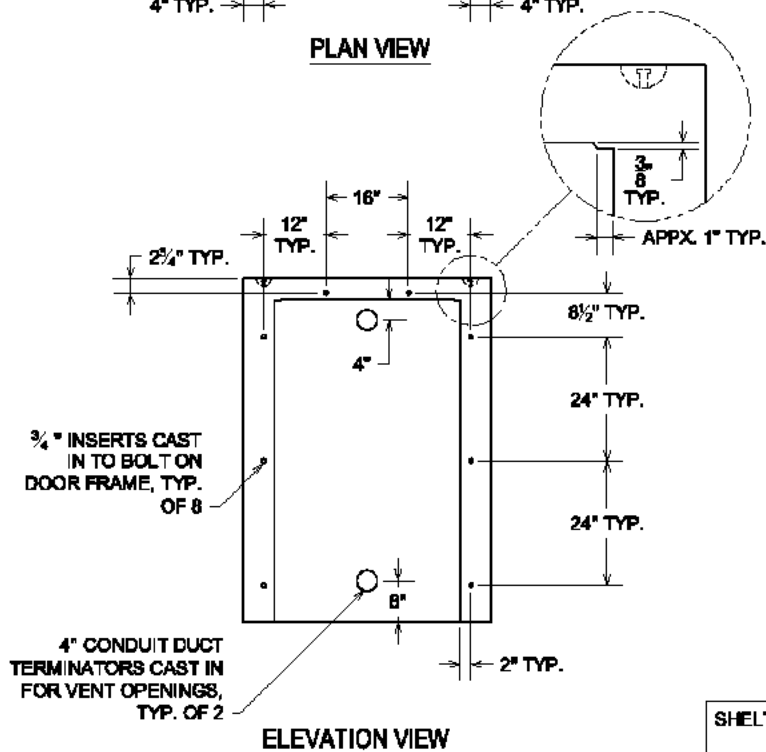
3'-0" WIDE X 6'-0" LONG X 5'-2 $\frac{3}{8}$ " HIGH INSIDE DIMENSIONS

VCP ITEM #SS-3060-AG (6 PERSON*)

*THE NSSA/ICC STANDARDS FOR RESIDENTIAL TORNADO SHELTERS REQUIRE
3 SQUARE FEET OF USABLE FLOOR AREA/OCCUPANT



PLAN VIEW

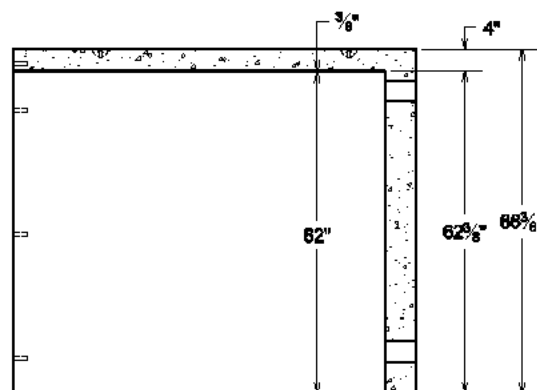


ELEVATION VIEW

STORM SHELTER ALSO PROVIDED WITH:

STEEL DOOR CERTIFIED TO MEET NSSA STANDARD
(NOT SHOWN)

STEEL DEFLECTOR PLATES OVER THE 4" DUCT
TERMINATORS FOR VENTS
(NOT SHOWN)



SECTION VIEW

SHELTER SETS ON TOP OF GROUND, EPOXIED TO THE
PURCHASER'S CONCRETE SLAB

UNIT WITH DOOR WEIGHS APPROXIMATELY 8,000 LBS.

*ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY
*PRODUCT & DRAWING SUBJECT TO CHANGE WITHOUT NOTICE

NOTES:

- CONCRETE: 5,000 P.S.I. (MINIMUM)
- REINFORCING: GRADE 60; EQUAL TO #4 REBARS @ 12" O.C.E.W. (MINIMUM)

DRAWING NOT TO SCALE

SS-3060-AG.DWG
DATE CREATED: 5/07
UPDATED: 12/09

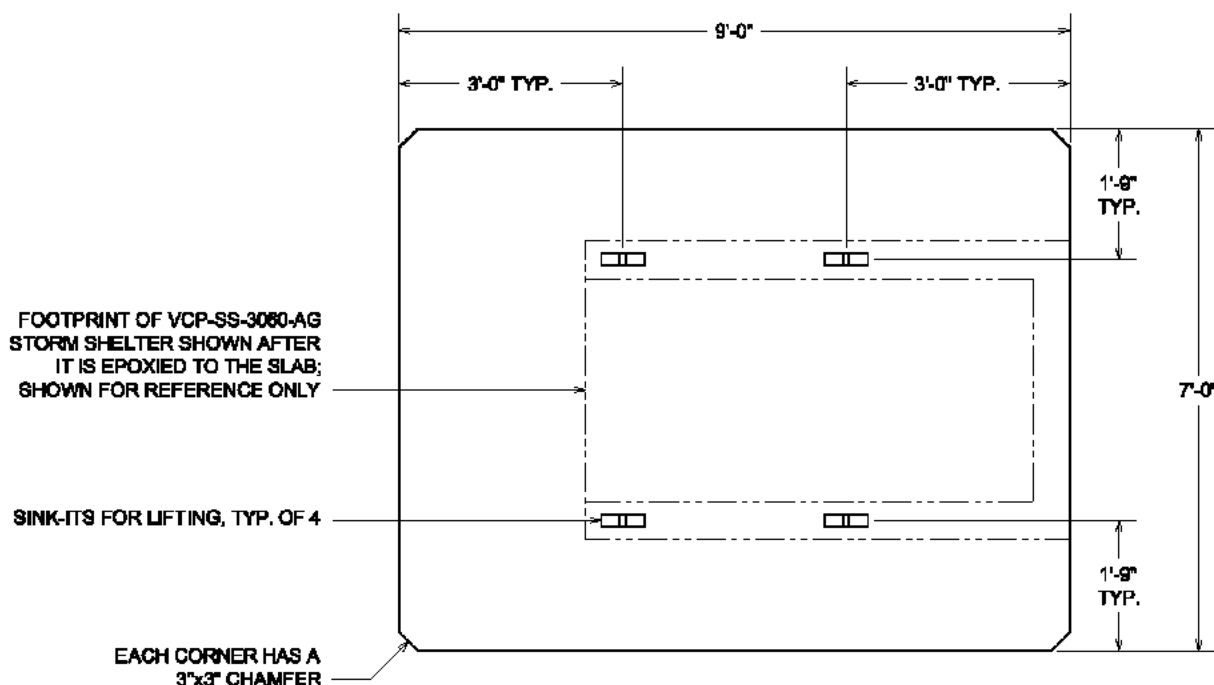
vaughn
concrete products, inc.

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www.vaughnconcreteproducts.com

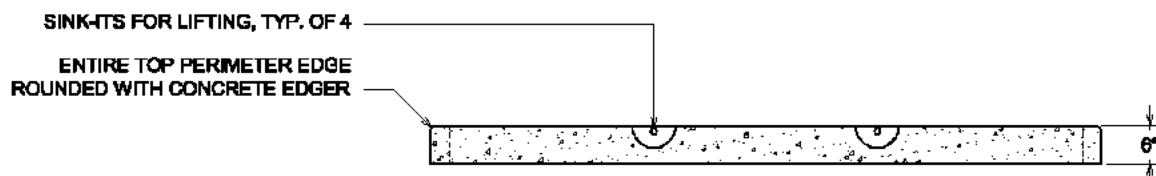
PRECAST CONCRETE ABOVE GROUND (AG)

STORM SHELTER PAD

7'-0" WIDE X 9'-0" LONG X 6" THICK OVERALL DIMENSIONS
TO BE USED WITH THE VCP-SS-3060-AG STORM SHELTER



PLAN VIEW



SECTION VIEW

WEIGHTS:

- PAD WEIGHS APPX. 4,700 LBS.

NOTES:

- CONCRETE: 4000 P.S.I. MINIMUM
- REINFORCING: GRADE 60 MINIMUM
- COLOR: STANDARD GRAY CONCRETE
- FINISH: SMOOTH HAND TROWEL FINISH

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

**PAD DELIVERED USING A SEMI-TYPE BOOM TRUCK
WITH LIMITED REACH; SUFFICIENT ACCESS IS
NECESSARY TO SET THE PAD IN PLACE**

**PAD CAN BE DELIVERED & SET IN PLACE ON A
LEVEL & PROPERLY PREPARED SHELTER LOCATION**

vaughn
concrete products, inc.

DRAWING NOT TO SCALE

STORM SHELTER PAD, 3060-AG.DWG
DATE CREATED: 12/08
UPDATED: -----

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PRECAST CONCRETE ABOVE GROUND (AG)

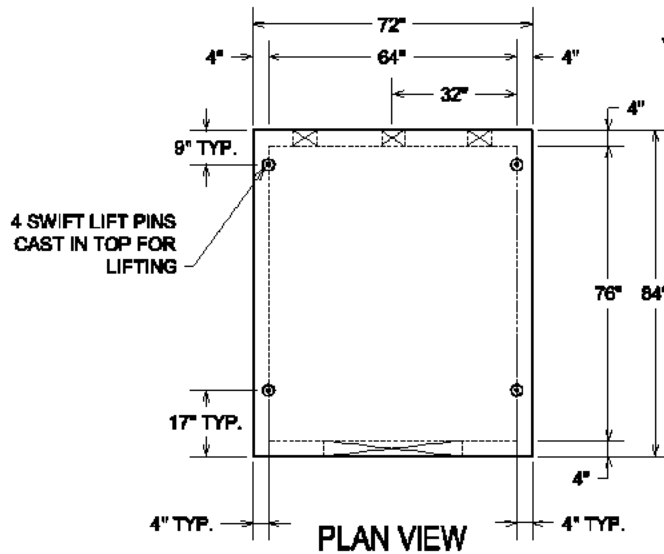
STORM SHELTER

**LOCALLY MANUFACTURED, PRECAST CONCRETE SHELTER WITH STEEL DOOR,
BOTH CERTIFIED TO MEET NSSA/ICC STANDARDS**

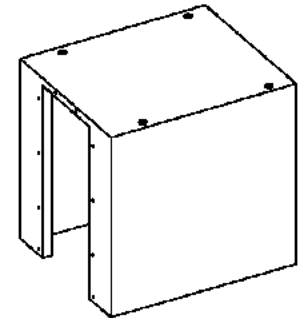
5'-4" (64") WIDE X 6'-4" (76") LONG X 6'-3³/₄" (75³/₄") HIGH INSIDE DIMENSIONS

VCP ITEM #SS-5363-AG (11 PERSON*)

*THE NSSA/ICC STANDARDS FOR RESIDENTIAL TORNADO SHELTERS REQUIRE
3 SQUARE FEET OF USABLE FLOOR AREA/OCCUPANT

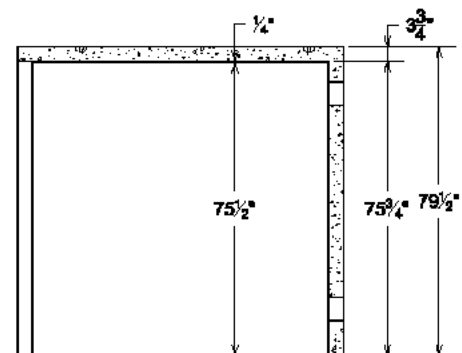
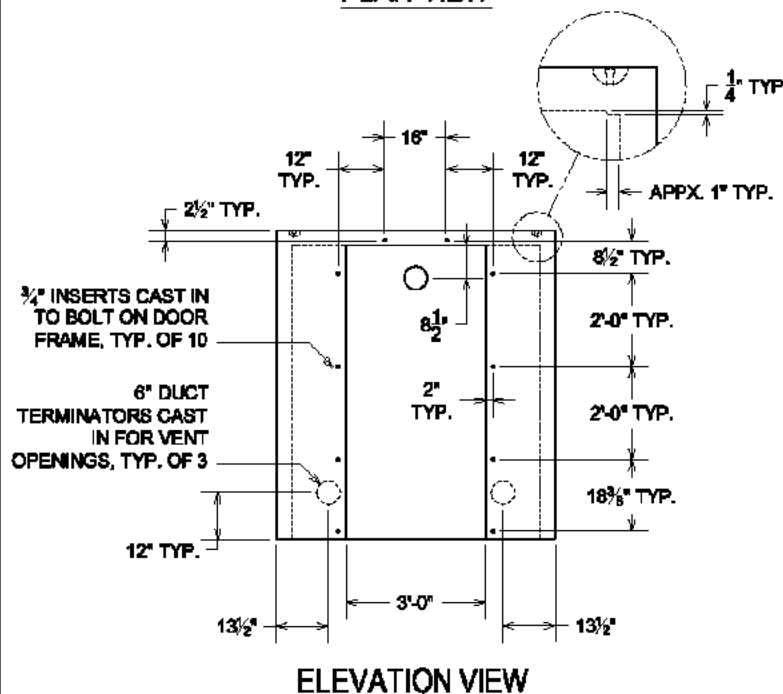


SHELTER SETS ON TOP OF GROUND, EPOXIED TO THE PURCHASER'S CONCRETE SLAB



**STEEL DOOR CERTIFIED TO MEET NSSA STANDARD
(NOT SHOWN)**

**STEEL DEFLECTOR PLATES OVER THE 6" DUCT
TERMINATORS FOR VENTS
(NOT SHOWN)**



UNIT WITH DOOR WEIGHS APPROXIMATELY 9,200 LBS.

*ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY
*PRODUCT & DRAWING SUBJECT TO CHANGE WITHOUT NOTICE

NOTES:

- CONCRETE: 5,000 P.S.I. (MINIMUM)
- REINFORCING: GRADE 60; EQUAL TO #4 REBARS @ 12" O.C.E.W. (MIN.)

DRAWING NOT TO SCALE

SS-9363-AGLWNG
DATE CREATED: 9/07
UPDATED: 12/09



**vaughn
concrete products, inc.**

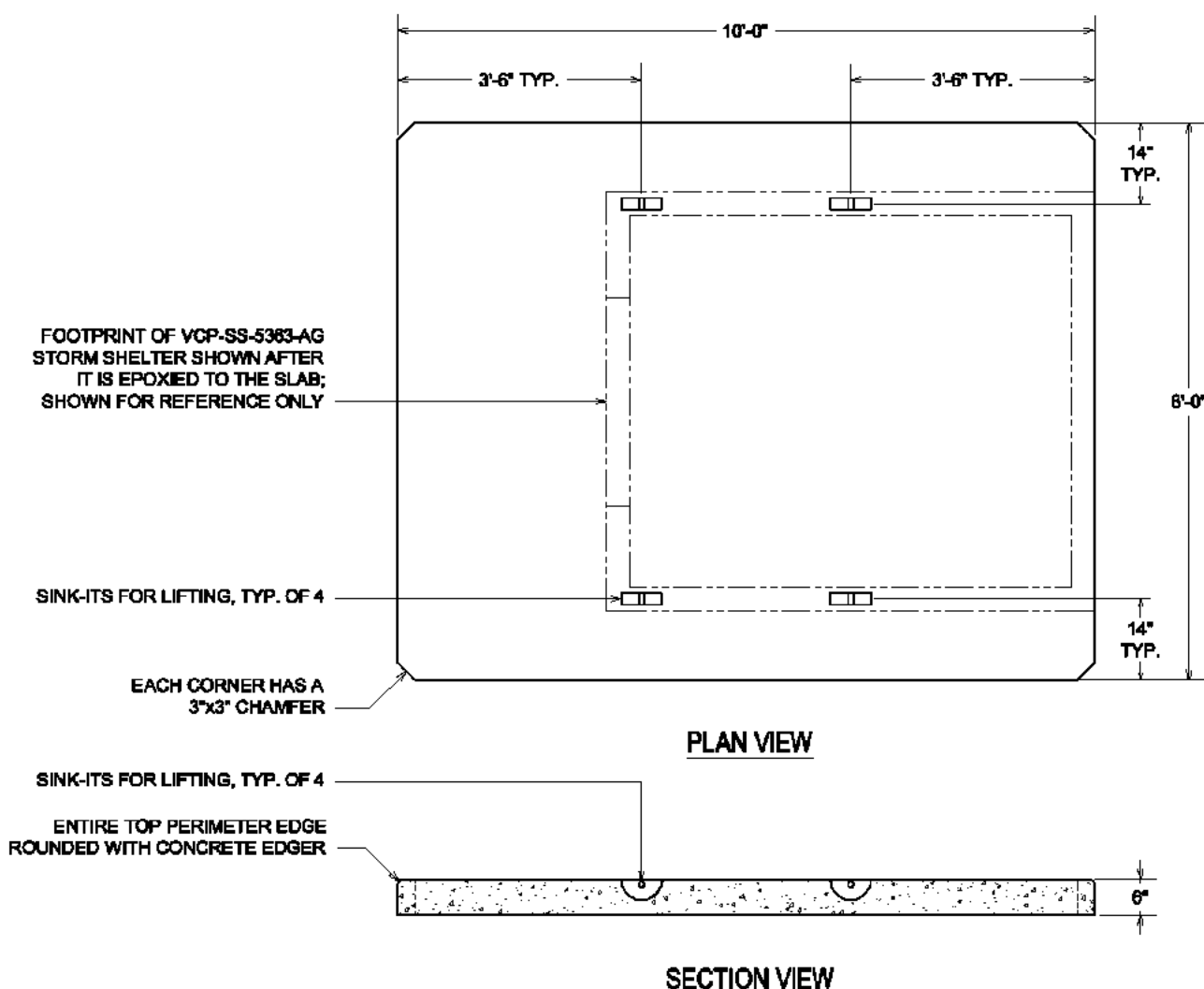
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10021 Amarillo Blvd East • Amarillo, Texas 79108 • 806-374-3747, Fax 806-335-3717

www.vaughnconcreteproducts.com

PRECAST CONCRETE ABOVE GROUND (AG)

STORM SHELTER PAD

8'-0" WIDE X 10'-0" LONG X 6" THICK OVERALL DIMENSIONS
TO BE USED WITH THE VCP-SS-5363-AG STORM SHELTER



WEIGHTS:

- PAD WEIGHS APPX. 5,900 LBS.

NOTES:

- CONCRETE: 4000 P.S.I. MINIMUM
- REINFORCING: GRADE 60 MINIMUM
- COLOR: STANDARD GRAY CONCRETE
- FINISH: SMOOTH HAND TROWEL FINISH

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

**PAD DELIVERED USING A SEMI-TYPE BOOM TRUCK
WITH LIMITED REACH; SUFFICIENT ACCESS IS
NECESSARY TO SET THE PAD IN PLACE**

**PAD CAN BE DELIVERED & SET IN PLACE ON A
LEVEL & PROPERLY PREPARED SHELTER LOCATION**

DRAWING NOT TO SCALE

STORM SHELTER PAD, 5363-AG.DWG
DATE CREATED: 12/08
UPDATED: -----

**vaughn
concrete products, inc.**

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PRECAST CONCRETE ABOVE GROUND (AG)

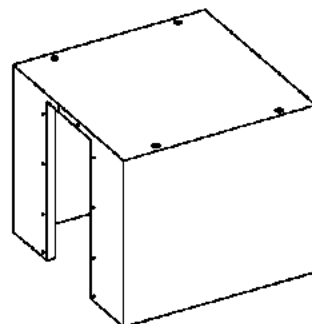
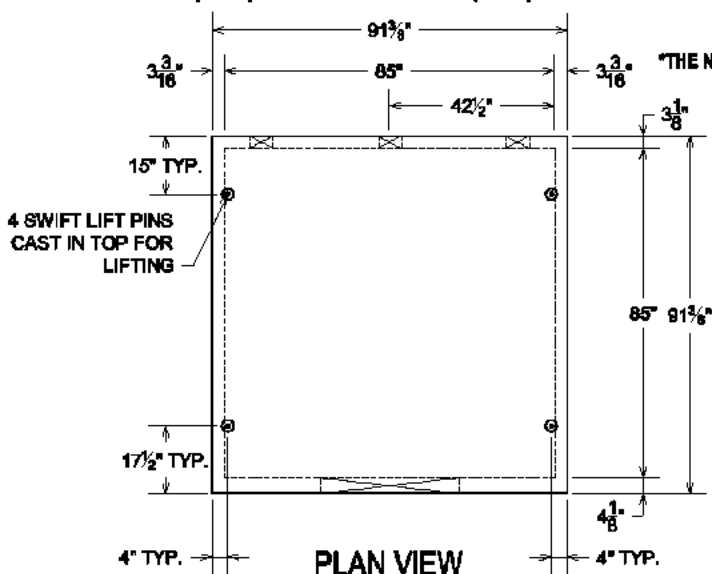
STORM SHELTER

LOCALLY MANUFACTURED, PRECAST CONCRETE SHELTER WITH STEEL DOOR,
BOTH CERTIFIED TO MEET NSSA/ICC STANDARDS

7'-1" (85") WIDE X 7'-1" (85") LONG X 6'-3 $\frac{3}{4}$ " (75 $\frac{3}{4}$ ") HIGH INSIDE DIMENSIONS

VCP ITEM #SS-7070-AG (16 PERSON*)

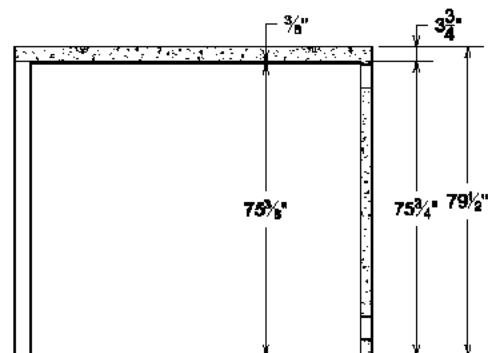
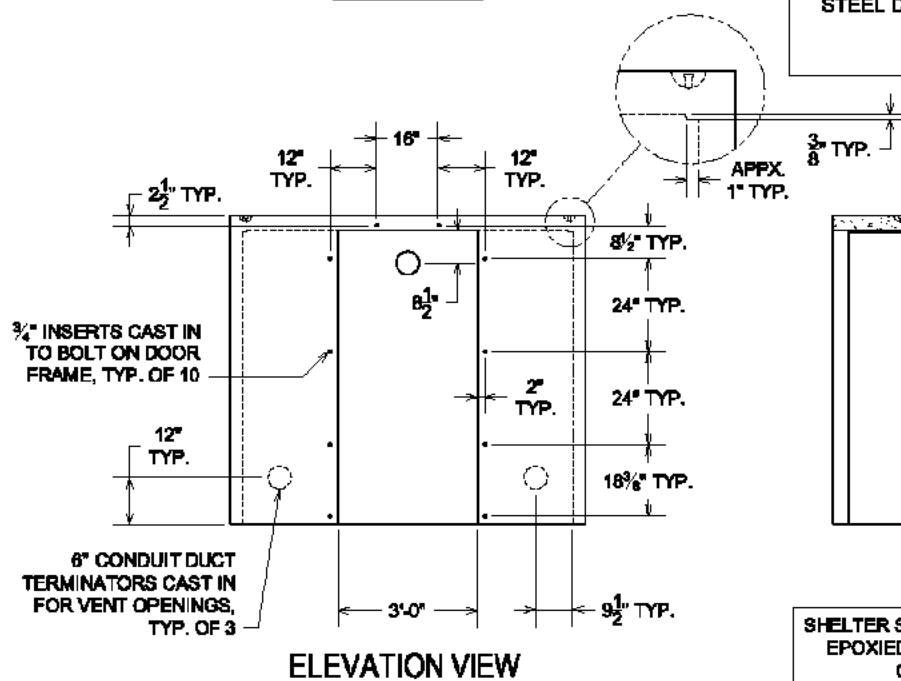
*THE NSSA/ICC STANDARDS FOR RESIDENTIAL TORNADO SHELTERS REQUIRE
3 SQUARE FEET OF USABLE FLOOR AREA/OCCUPANT



STORM SHELTER ALSO PROVIDED WITH:

STEEL DOOR CERTIFIED TO MEET NSSA STANDARD
(NOT SHOWN)

STEEL DEFLECTOR PLATES OVER THE 6" DUCT
TERMINATORS FOR VENTS
(NOT SHOWN)



SHELTER SETS ON TOP OF GROUND,
EPOXIED TO THE PURCHASER'S
CONCRETE SLAB

UNIT WITH DOOR WEIGHS APPROXIMATELY 9,800 LBS.

*ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY
*PRODUCT & DRAWING SUBJECT TO CHANGE WITHOUT NOTICE

NOTES:

- CONCRETE: 5,000 P.S.I. (MINIMUM)
- REINFORCING: GRADE 60; EQUAL TO #4 REBARS @ 12" O.C.E.W. (MIN.)

DRAWING NOT TO SCALE

SS-7070-AG.DWG
DATE CREATED: 5/07
UPDATED: 12/09

vaughn concrete products, inc.

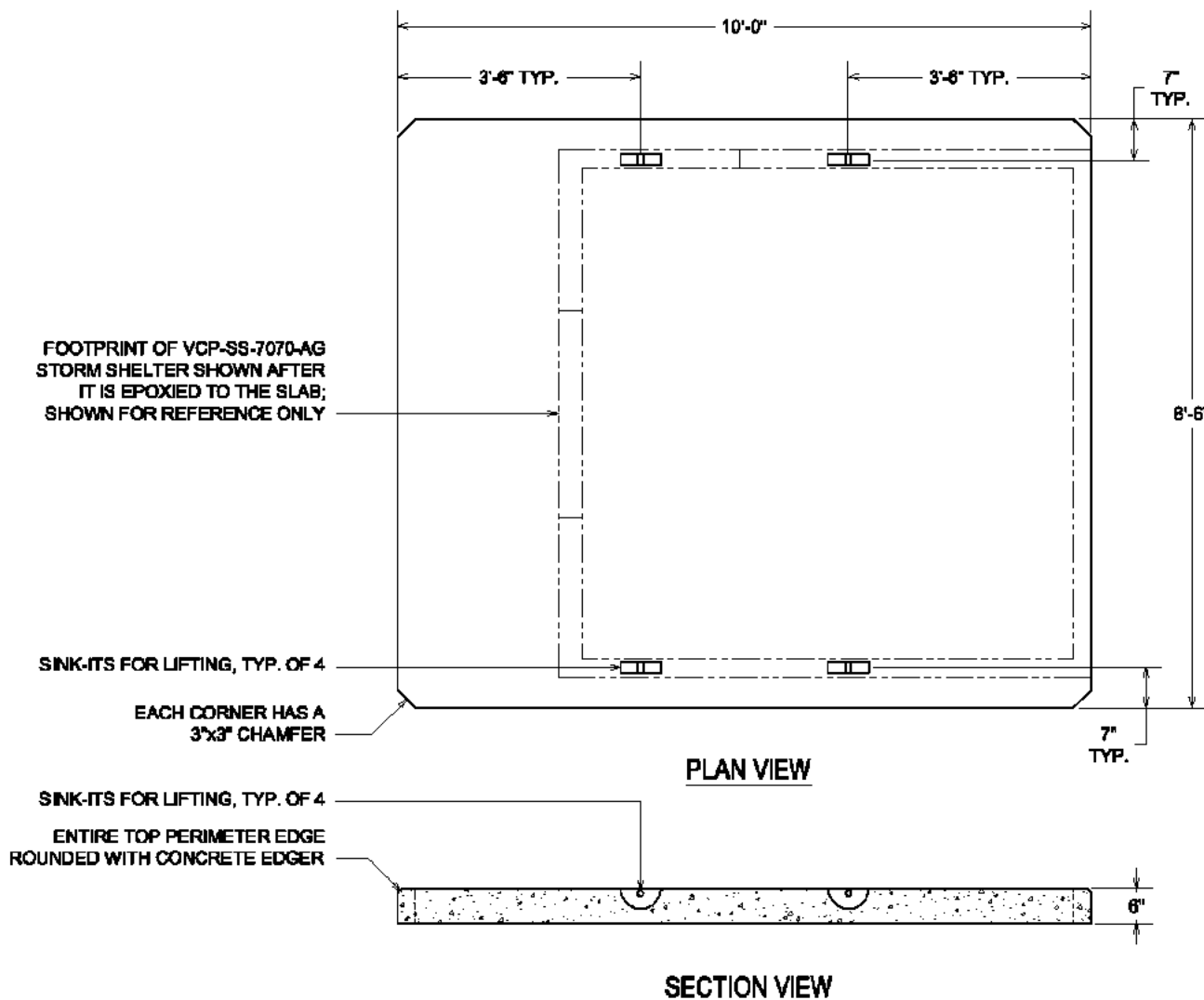
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www.vaughnconcreteproducts.com

PRECAST CONCRETE ABOVE GROUND (AG)

STORM SHELTER PAD

8'-6" WIDE X 10'-0" LONG X 6" THICK OVERALL DIMENSIONS
TO BE USED WITH THE VCP-SS-7070-AG STORM SHELTER



WEIGHTS:

- PAD WEIGHS APPX. 6,300 LBS.

NOTES:

- CONCRETE: 4000 P.S.I. MINIMUM
- REINFORCING: GRADE 60 MINIMUM
- COLOR: STANDARD GRAY CONCRETE
- FINISH: SMOOTH HAND TROWEL FINISH

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

**PAD DELIVERED USING A SEMI-TYPE BOOM TRUCK
WITH LIMITED REACH; SUFFICIENT ACCESS IS
NECESSARY TO SET THE PAD IN PLACE**

**PAD CAN BE DELIVERED & SET IN PLACE ON A
LEVEL & PROPERLY PREPARED SHELTER LOCATION**

DRAWING NOT TO SCALE

STORM SHELTER PAD, 7070-AG.DWG
DATE CREATED: 12/08
UPDATED: -----

**vaughn
concrete products, inc.**

12650 Tucson Street • Henderson, Colorado 80640 • 303-659-3747, Fax 303-659-1333
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PRECAST CONCRETE ABOVE GROUND (AG) STAND-ALONE

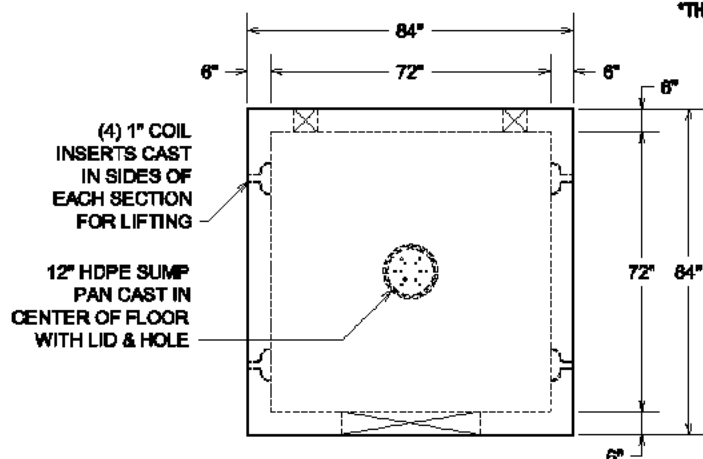
STORM SHELTER

LOCALLY MANUFACTURED, PRECAST CONCRETE SHELTER WITH STEEL DOOR,
BOTH CERTIFIED TO MEET NSSA/ICC STANDARDS

6'-0" (72") WIDE X 6'-0" (72") LONG X 7'-0" (84") HIGH INSIDE DIMENSIONS

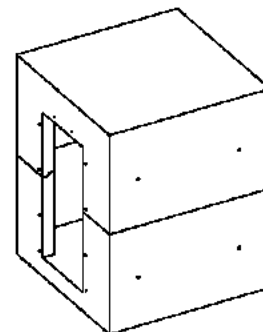
VCP ITEM #SS-606070-AG (12 PERSON*)

*THE NSSA/ICC STANDARDS FOR RESIDENTIAL TORNADO SHELTERS REQUIRE
3 SQUARE FEET OF USABLE FLOOR AREA/OCCUPANT



PLAN VIEW

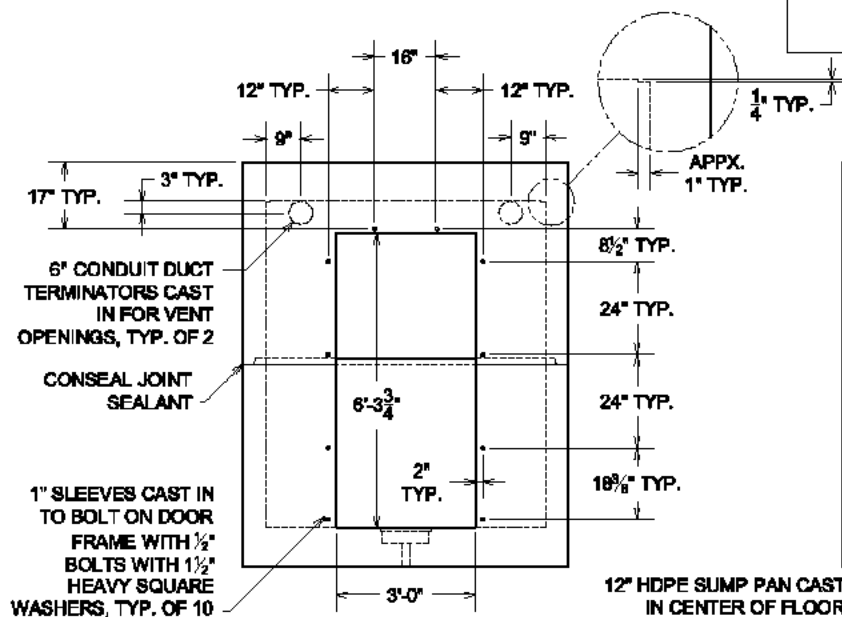
SHELTER SETS ON TOP
OF GROUND, NO
ANCHORING REQUIRED



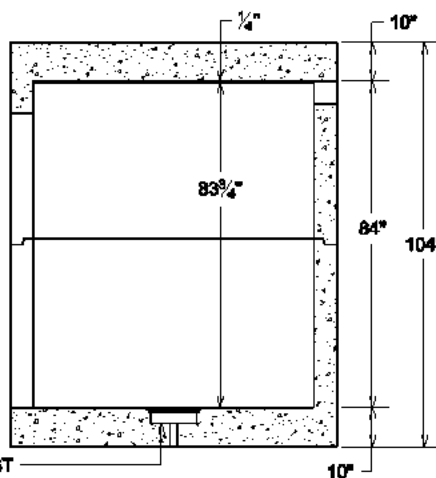
STORM SHELTER ALSO PROVIDED WITH:

STEEL DOOR CERTIFIED TO MEET NSSA STANDARD
(NOT SHOWN)

STEEL DEFLECTOR PLATES OVER THE 6" DUCT
TERMINATORS FOR VENTS
(NOT SHOWN)



ELEVATION VIEW



SECTION VIEW

UNIT WITH DOOR WEIGHS APPROXIMATELY 24,800 LBS.

*ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY
*PRODUCT & DRAWING SUBJECT TO CHANGE WITHOUT NOTICE

NOTES:

- CONCRETE: 5,000 P.S.I. (MINIMUM)
- REINFORCING: GRADE 60; EQUAL TO #4 REBARS @ 12" O.C.E.W. (MIN.)

DRAWING NOT TO SCALE

SS-606070-AG.DWG
DATE CREATED: 5/07
UPDATED: 12/09

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www.vaughnconcreteproducts.com

PRECAST CONCRETE ABOVE GROUND (AG) STAND-ALONE COMMUNITY

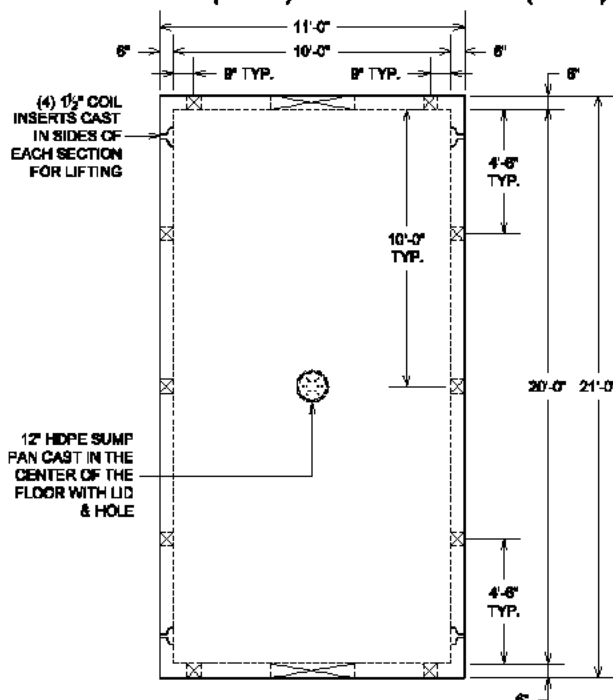
STORM SHELTER

PRECAST CONCRETE SHELTER WITH TWO STEEL DOORS,
CERTIFIED TO MEET ALL NSSA/ICC STANDARDS

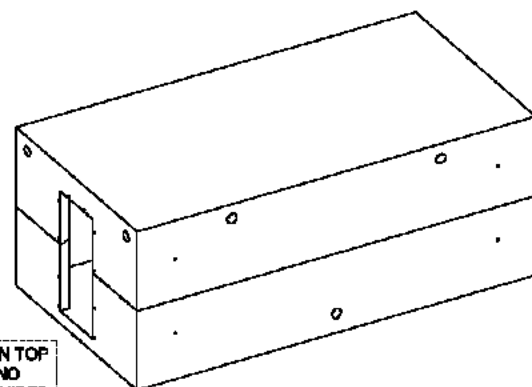
10'-0" (120") WIDE X 20'-0" (240") LONG X 7'-0" (84") HIGH INSIDE DIMENSIONS

VCP ITEM #SS-10020070-AG (34 PERSON*)

*THE NSSA/ICC STANDARDS FOR COMMUNITY TORNADO SHELTERS REQUIRE
5 SQUARE FEET OF USABLE FLOOR AREA/OCCUPANT



PLAN VIEW

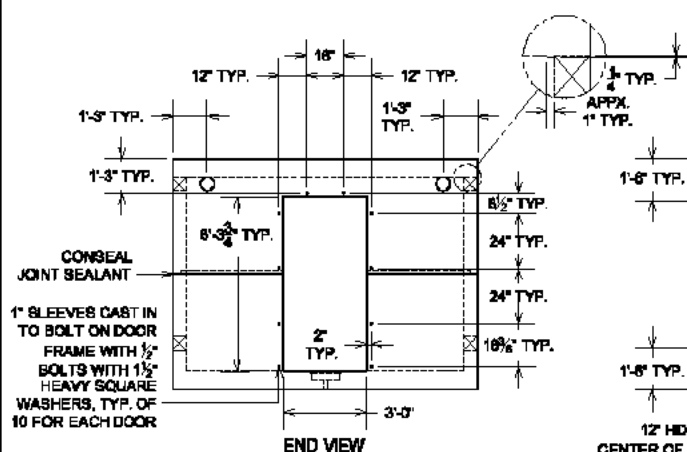


SHELTER SETS ON TOP
OF GROUND, NO
ANCHORING REQUIRED

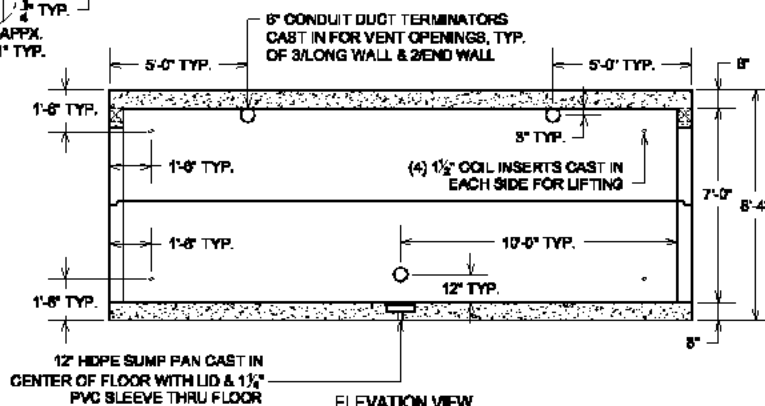
STORM SHELTER ALSO PROVIDED WITH:

(2) STEEL DOORS CERTIFIED TO MEET NSSA
STANDARD
(NOT SHOWN)

STEEL DEFLECTOR PLATES OVER THE (10) 6" DUCT
TERMINATORS FOR VENTS
(NOT SHOWN)



END VIEW



ELEVATION VIEW

UNIT WITH DOORS WEIGHS APPROXIMATELY 77,000 LBS.
TOP HALF OF SHELTER WEIGHS APPX. 38,500 LBS.
BOTTOM HALF OF SHELTER WEIGHS APPX. 38,000 LBS.

*ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY
*PRODUCT & DRAWING SUBJECT TO CHANGE WITHOUT NOTICE

NOTES:

- CONCRETE: 5,000 P.S.I. (MINIMUM)
- REINFORCING: GRADE 60; EQUAL TO #4 REBARS @ 12" O.C.E.W. (MIN.)

DRAWING NOT TO SCALE

SS-10020070-AG-AMARILLO.DWG
DATE CREATED: 12/09
UPDATED: -----

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 10021 Amarillo Blvd E. Amarillo, Texas 79108-7542 (806) 374-3747 Fax (806) 335-3717
 Toll Free Phone (877) 827-8255 Toll Free Fax (877) 827-7363
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Vaughn Concrete Products, Inc.
 certifies that (the design, manufacture, and
 installation of) this shelter complies with the
 National Storm Shelter Association (NSSA)
 Standard and the Certificate of Installation on file
 with the NSSA bearing



Serial Number _____

VCP-SS-10020070-AG

ABOVE GROUND PRECAST CONCRETE COMMUNITY STORM SHELTER 34 PERSON CAPACITY



THIS SHELTER IS ONLY AVAILABLE WITH LEFT SWING DOOR AS SHOWN ABOVE
 (SHELTER SHOWN WITH STANDARD GRAY CONCRETE FORM FINISH)



SHELTER SHOWN WITH OPTIONAL EXTERIOR BEIGE CONCRETE PAINT
 (SHELTERS SHOWN ABOVE SET DIRECTLY ON TOP OF THE GROUND)

CERTIFIED TO MEET ALL NSSA/ICC STANDARDS!

DOORS TESTED BY THE WIND SCIENCE & ENGINEERING RESEARCH CENTER AT TEXAS TECH UNIVERSITY!

FREESTANDING SHELTER! NO ANCHORING REQUIRED! WEIGHS NEARLY 77,000 LBS!

**OUR COMMUNITY STORM SHELTERS ARE PERFECT FOR PROTECTING PEOPLE NEAR
 CITY PARKS ~ GOLF COURSES ~ OIL FIELD SITES ~ OPEN SPACE IN SUBDIVISIONS
 TRAILER PARKS ~ CAMPGROUNDS ~ OFFICE BUILDINGS ~ CHURCHES ~ SHOPS
 OR ANYWHERE THAT GROUPS OF PEOPLE MAY GATHER!**

STANDARD FEATURES INCLUDED WITH YOUR STORM SHELTER:

- **INTERIOR WALLS & CEILING PAINTED WHITE**
- **STEEL DEFLECTOR PLATES MOUNTED OVER EACH VENT OPENING (GALVANIZED FOR MAXIMUM CORROSION PROTECTION)**
- **PLASTIC SUMP WITH DRAIN HOLE AND PLASTIC SUMP GRATE CAST IN THE CENTER OF THE FLOOR**
- **(2) BOLT-ON GALVANIZED STEEL FRAMES WITH 36" WIDE STEEL POWDER COATED DOORS INSTALLED AT YOUR SITE**
 - o DOORS WEIGH APPX. 260 LBS. EACH; BOLT-ON FRAMES & DOORS ARE REPLACEABLE
- **(2) HOCKEY PUCK STYLE PADLOCKS**
 - o USED TO RESTRICT ACCESS TO DOOR KEY MECHANISM
- **(2) DOOR LIFTER ESCAPE BARS (PAINTED RED)**
 - o DOORS ARE MOUNTED TO FRAME USING HINGES WITH BEARINGS & ARE REMOVABLE VIA THE DOOR LIFTER ESCAPE BARS; THE DOOR CAN BE LIFTED OFF THE FRAME'S HINGES ONLY WHEN THE DOOR LOCKING MECHANISMS ARE DISENGAGED, ALLOWING THEM TO FALL AWAY IN THE EVENT THAT THE DOOR'S SWING IS ONLY SLIGHTLY OBSTRUCTED

SEE THE BACK OF THIS BROCHURE FOR ADDITIONAL INFORMATION!

CALL US TODAY TOLL FREE @ 1-877-827-8255!

Member of the



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Vaughn Concrete Products, Inc.
 certifies that (the design, manufacture, and
 installation of) this shelter complies with the
 National Storm Shelter Association (NSSA)
 Standard and the Certificate of Installation on file
 with the NSSA bearing



Serial Number _____

HOW MANY PEOPLE IS THIS SHELTER RECOMMENDED FOR?

- APPX. 34 PEOPLE (IF ALL FLOOR SPACE IS EMPTY)
 - o THE NSSA/ICC STANDARDS FOR TORNADO SHELTERS REQUIRES 5 SQUARE FEET OF USABLE FLOOR AREA/OCCUPANT

WHAT ARE THE PHYSICAL DIMENSIONS OF THIS SHELTER?

- APPROXIMATE INSIDE DIMENSIONS: 10'-0" WIDE x 20'-0" LONG x 7'-0" TALL
- APPROXIMATE OUTSIDE DIMENSIONS: 11'-0" WIDE x 21'-0" LONG x 8'-4" TALL

HOW MUCH DOES THIS SHELTER WEIGH?

- COMPLETE SHELTER WEIGHS APPX. 77,000 LBS
 - o EACH DOOR FRAME WEIGHS APPX. 111 LBS. EACH; EACH DOOR WEIGHS APPX. 260 LBS. EACH

DOES THIS SHELTER NEED A CONCRETE PAD/SLAB?

- NO, JUST A LEVEL COMPACT SURFACE
- THIS SHELTER SUCCESSFULLY MET THE REQUIREMENTS OF NSSA/ICC STANDARDS WITHOUT ANY ANCHORING NECESSARY

WHAT DO YOU NEED TO KNOW WHEN DETERMINING WHERE TO PUT YOUR COMMUNITY SHELTER?

- YOU NEED TO FIND OUT IF A BUILDING PERMIT IS REQUIRED TO INSTALL YOUR ABOVE GROUND STORM SHELTER
 - o IF SO, YOU NEED TO NOTIFY US IF A PERMIT IS REQUIRED WHEN ORDERING YOUR COMMUNITY STORM SHELTER
- MOST MUNICIPALITIES REQUIRE SHELTERS TO BE 3 FT. FROM PROPERTY LINES; **VERIFY YOUR DISTANCE REQUIRED**
- **DO NOT PLACE SHELTERS OVER UNDERGROUND UTILITY LINES OR UNDERNEATH HANGING UTILITY LINES**
- **DO NOT PLACE SHELTERS IN AREAS THAT MAY BE SUBJECT TO FLOODING**
- PUT IN A LOCATION THAT WILL BE QUICKLY & EASILY ACCESSIBLE
 - o YOU CAN EXCAVATE A HOLE FOR THIS SHELTER TO SET INTO, MAKING THE INSIDE FLOOR FLUSH WITH GROUND
 - o YOU CAN BUILD A RAMP TO MAKE WHEELCHAIR ACCESSIBLE IF THIS SHELTER IS SET ON TOP OF THE GROUND
 - **VCP DOES NOT OFFER THE EXCAVATED HOLE OR THE RAMP AS OPTIONS**
- WE CAN SCHEDULE A SITE VISIT TO YOUR LOCATION TO CONFIRM INSTALLATION REQUIREMENTS CAN BE SATISFIED

WHY SHOULD YOU PURCHASE A PRECAST CONCRETE ABOVE GROUND STORM SHELTER FROM US?

- OUR SHELTER DESIGNS WERE EVALUATED BY AN INDEPENDENT, THIRD PARTY ENGINEER FOR CONFORMANCE TO ALL NSSA/ICC STANDARDS
- **PEACE OF MIND IN KNOWING THAT YOUR SHELTER IS MANUFACTURED USING HIGH STRENGTH MATERIALS**
- SHELTER IS DESIGNED FOR WIND SPEEDS OF 250 MPH WHICH ARE GREATER THAN THAT OF AN ENHANCED F-5 TORNADO
- **WHEN YOUR SHELTER IS INSTALLED, WE TAKE A GPS READING OF THE SHELTER LOCATION**
 - o **THE SHELTER LOCATION IS THEN FORWARDED ON TO THE NSSA AND ENTERED INTO THEIR DATABASE**
- BY SPECIAL REQUEST, OUR SHELTER CAN BE USED AS A SAFE BY MODIFYING OUR DOOR FRAME BOLTS
- **PRECAST CONCRETE SHELTERS HAVE LOW ELECTRICAL CONDUCTIVITY & NOISE RESONANCE**
- **MOST CELLULAR SERVICES ARE NOT SIGNIFICANTLY AFFECTED WHEN INSIDE A PRECAST CONCRETE SHELTER**
- **THIS SHELTER CAN BE MOVED/RELOCATED IN THE EVENT THAT SOMETHING AT YOUR SITE REQUIRED IT TO BE MOVED**

WHERE CAN YOU FIND MORE INFORMATION?

- www.fema.gov FOR GENERAL STORM SHELTER INFORMATION
- www.nssa.cc FOR THE NATIONAL STORM SHELTER ASSOCIATION (NSSA) STANDARD
- www.wind.ttu.edu FOR TESTING INFORMATION @ TX TECH UNIVERSITY'S WIND SCIENCE AND ENGINEERING RESEARCH CENTER
- www.iccsafe.org FOR INFORMATION REGARDING THE INTERNATIONAL CODE COUNCIL
- www.vaughnconcreteproducts.com FOR INFORMATION ABOUT US & ADDITIONAL INFORMATION ON OUR STORM SHELTERS

WE LOOK FORWARD TO ASSISTING YOU WITH YOUR STORM SHELTER NEEDS!

~ALL INFORMATION ON THIS BROCHURE IS CORRECT TO THE BEST OF OUR KNOWLEDGE AT THIS TIME AND IS SUBJECT TO CHANGE WITHOUT NOTICE~
 ~STORM SHELTER PURCHASE IS SUBJECT TO VCP'S STORM SHELTER TERMS & CONDITIONS~

CALL US TODAY TOLL FREE @ 1-877-827-8255!

REV. II

PRECAST CONCRETE BELOW GROUND (BG)

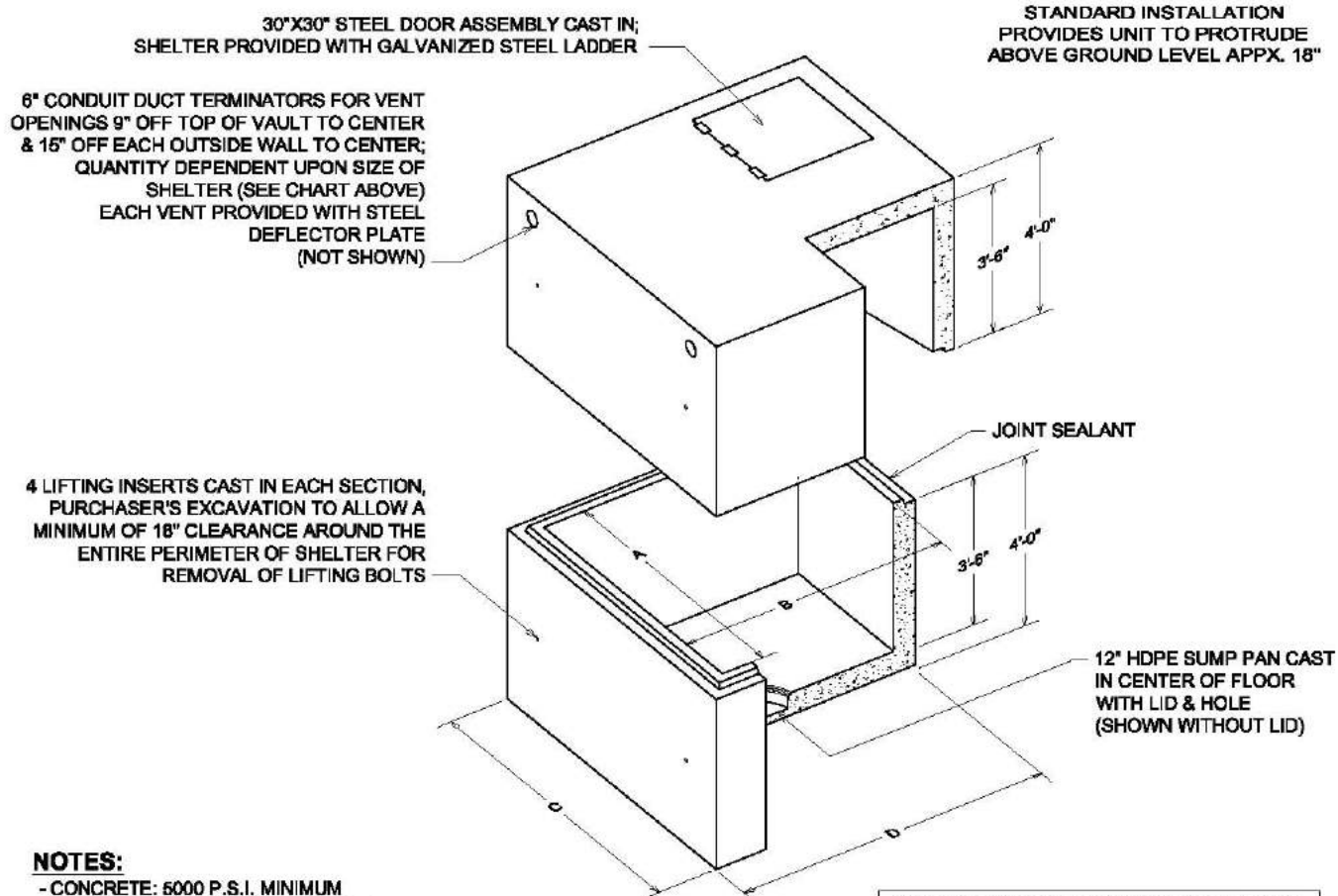
STORM SHELTER-SQUARE

LOCALLY MANUFACTURED, PRECAST CONCRETE SHELTER WITH HATCH,
BOTH CERTIFIED TO MEET NSSA STANDARD

STANDARD SQUARE SIZES ARE SHOWN IN THE CHART BELOW
(OTHER SIZES ARE AVAILABLE IN EVEN FOOT INCREMENTS BY SPECIAL ORDER ONLY)

VCP ITEM #	INSIDE LENGTH	INSIDE WIDTH	OUTSIDE LENGTH	OUTSIDE WIDTH	INSIDE HEIGHT	NUMBER OF 6" VENTS	SIZE OF EXCAVATION
	A	B	C	D			
#SS-606070-BGH	6'-0"	6'-0"	7'-0"	7'-0"	7'-0"	2	10'Wx10'Lx7'D**
#SS-808070-BGH	8'-0"	8'-0"	9'-0"	9'-0"	7'-0"	3	12'Wx12'Lx7'D**
#SS-10010070-BGH	10'-0"	10'-0"	11'-0"	11'-0"	7'-0"	4	14'Wx14'Lx7'D**

DEPTH OF EXCAVATION TO ALLOW FOR A MINIMUM OF 6" OF AGGREGATE TO FACILITATE DRAINAGE BELOW THE SHELTER**



NOTES:

- CONCRETE: 5000 P.S.I. MINIMUM
- REINFORCING: GRADE 60 MINIMUM
- *TOP SECTIONS: #4@12" O.C.E.W. (OR EQUIVALENT STRUCTURAL MESH)
- *BOTTOM SECTIONS: #5@12" O.C.E.W. (OR EQUIVALENT STRUCTURAL MESH)
- ALL REINFORCING CENTERED IN THE FLOOR, WALLS & ROOF THICKNESS

*ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY
*PRODUCT & DRAWING SUBJECT TO CHANGE WITHOUT NOTICE

ALL BELOW GROUND (BG) STORM SHELTERS
ARE PROVIDED WITH 12" DIAMETER HDPE
SUMP PAN WITH DRAIN HOLE; 6" MINIMUM
AGGREGATE BASIN TO FACILITATE
DRAINAGE TO BE PLACED BELOW EACH
SHELTER'S SUMP LOCATION PRIOR TO
SETTING IT INTO THE READY EXCAVATION

DRAWING NOT TO SCALE

SS-SQUARE-BG.DWG
DATE CREATED: 4/07
UPDATED: 5/07

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PRECAST CONCRETE BELOW GROUND (BG)

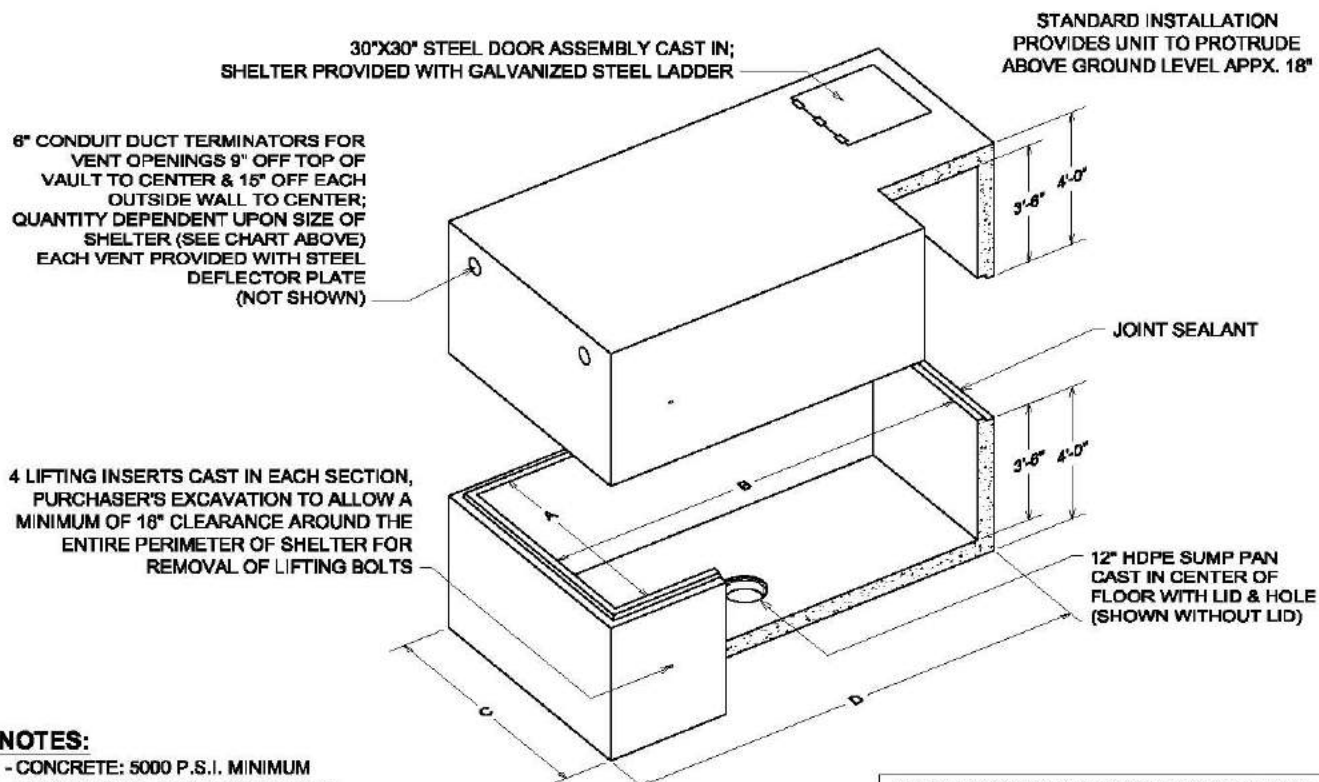
STORM SHELTER-RECTANGULAR

LOCALLY MANUFACTURED, PRECAST CONCRETE SHELTER WITH HATCH,
BOTH CERTIFIED TO MEET NSSA STANDARD

STANDARD SQUARE SIZES ARE SHOWN IN THE CHART BELOW
(OTHER SIZES ARE AVAILABLE IN EVEN FOOT INCREMENTS BY SPECIAL ORDER ONLY)

VCP ITEM #	INSIDE WIDTH A	INSIDE LENGTH B	OUTSIDE WIDTH C	OUTSIDE LENGTH D	INSIDE HEIGHT	NUMBER OF 6" VENTS	SIZE OF EXCAVATION
VCP #SS-50120-BGH	5'-0"	12'-0"	6'-0"	13'-0"	7'-0"	3	9'WX16' LX7'D**
VCP #SS-6080-BGH	6'-0"	8'-0"	7'-0"	9'-0"	7'-0"	2	10'WX12' LX7'D**
VCP #SS-60120-BGH	6'-0"	12'-0"	7'-0"	13'-0"	7'-0"	3	10'WX16' LX7'D**
VCP #SS-60160-BGH	6'-0"	16'-0"	7'-0"	17'-0"	7'-0"	4	10'WX20' LX7'D**
VCP #SS-60180-BGH	6'-0"	18'-0"	7'-0"	19'-0"	7'-0"	4	10'WX22' LX7'D**
VCP #SS-60240-BGH	6'-0"	24'-0"	7'-0"	25'-0"	7'-0"	6	10'WX28' LX7'D**
VCP #SS-80100-BGH	8'-0"	10'-0"	9'-0"	11'-0"	7'-0"	3	12'WX14' LX7'D**
VCP #SS-80120-BGH	8'-0"	12'-0"	9'-0"	13'-0"	7'-0"	4	12'WX15' LX7'D**
VCP #SS-100120-BGH	10'-0"	12'-0"	11'-0"	13'-0"	7'-0"	5	14'WX16' LX7'D**

DEPTH OF EXCAVATION TO ALLOW FOR A MINIMUM OF 6" OF AGGREGATE TO FACILITATE DRAINAGE BELOW THE SHELTER**



NOTES:

- CONCRETE: 5000 P.S.I. MINIMUM
- REINFORCING: GRADE 60 MINIMUM
- *TOP SECTIONS: #4@12" O.C.E.W. (OR EQUIVALENT STRUCTURAL MESH)
- *BOTTOM SECTIONS: #5@12" O.C.E.W. (OR EQUIVALENT STRUCTURAL MESH)
- ALL REINFORCING CENTERED IN THE FLOOR, WALLS & ROOF THICKNESS

*ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY
*PRODUCT & DRAWING SUBJECT TO CHANGE WITHOUT NOTICE

ALL BELOW GROUND (BG) STORM SHELTERS ARE PROVIDED WITH 12" DIAMETER HDPE SUMP PAN WITH DRAIN HOLE; 6" MINIMUM AGGREGATE BASIN TO FACILITATE DRAINAGE TO BE PLACED BELOW EACH SHELTER'S SUMP LOCATION PRIOR TO SETTING IT INTO THE READY EXCAVATION

DRAWING NOT TO SCALE

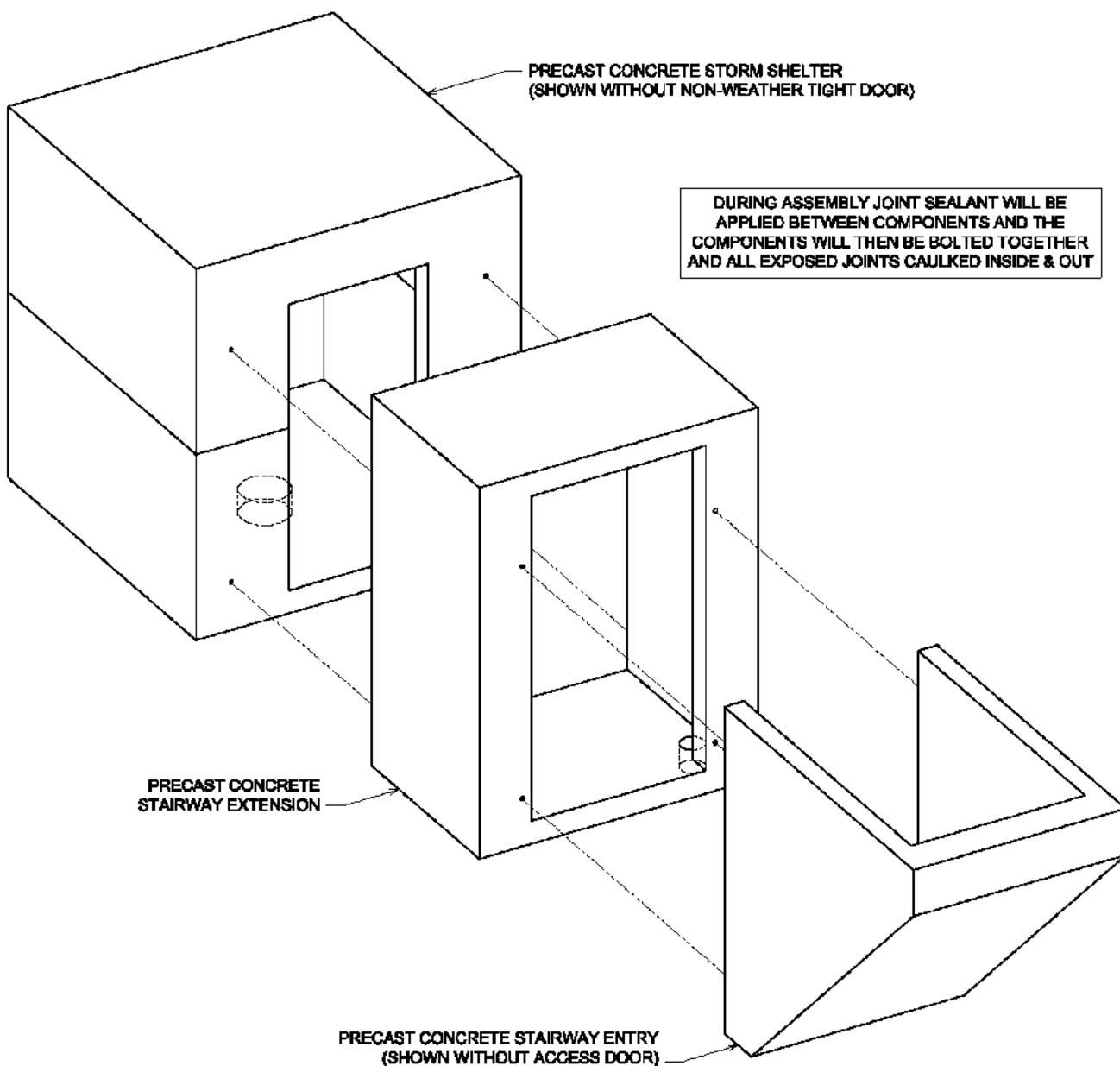
SS-RECTANGULAR-BGH.DWG
DATE CREATED: 4/07
UPDATED: 5/07

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PRECAST CONCRETE STORM SHELTER

EXPLODED VIEW OF BELOW GROUND (BG) STORM SHELTER, STAIRWAY EXTENSION & STAIRWAY ENTRY



ALL BELOW GROUND STORM SHELTER COMPONENTS ARE PROVIDED WITH SUMP DRAIN HOLE (SHOWN IN HIDDEN LINES ABOVE)
AGGREGATE BASIN TO FACILITATE DRAINAGE TO BE PLACED BELOW EACH COMPONENT'S SUMP LOCATION PRIOR TO SETTING THEM INTO
THEIR READY EXCAVATIONS

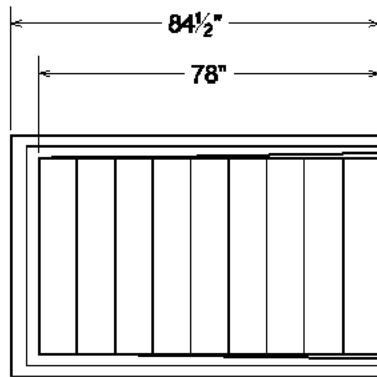
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SS-EXTENSION-ENTRY ASSY.DWG
DATE CREATED: 5/07
UPDATED: -----

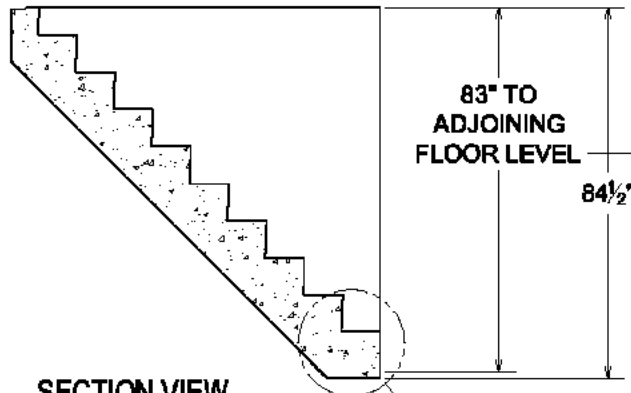
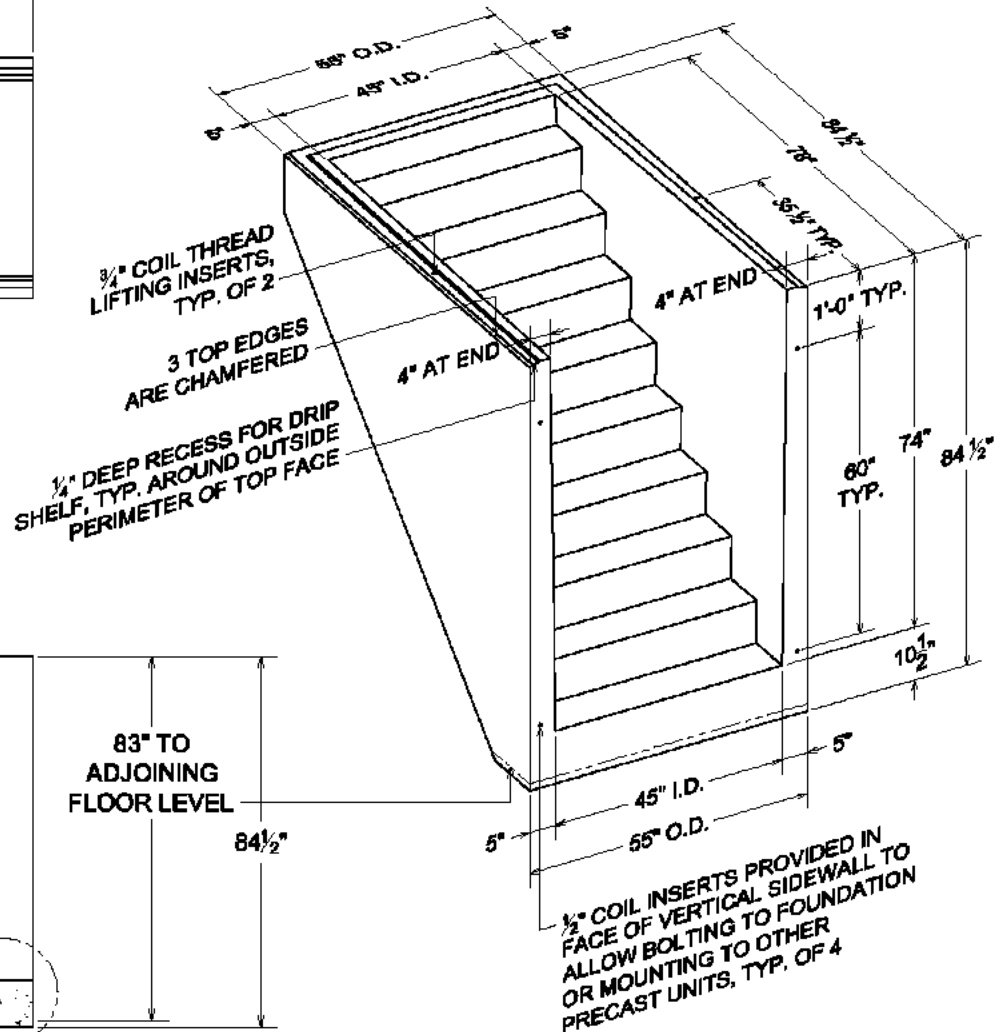
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PRECAST CONCRETE STAIRWAY ENTRY

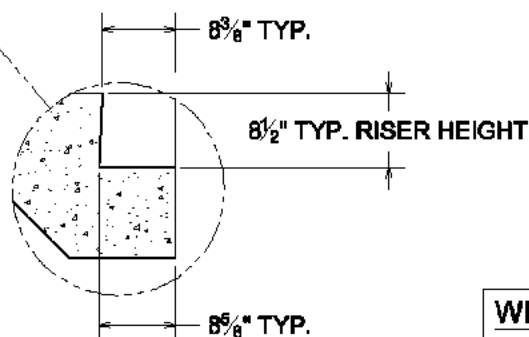
FOR ACCESS TO BELOW GROUND STRUCTURES



PLAN VIEW



SECTION VIEW



CONCRETE : 4,000 P.S.I. (MINIMUM)
REINFORCING : GRADE 60 MINIMUM
SOME DIMENSIONS WILL VARY TO ALLOW FOR TAPER ON MOLD

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

WEIGHT:
- UNIT WEIGHS APPX. 6,150 LBS.

DRAWING IS NOT TO SCALE

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STAIRWAY ENTRY.DWG
DATE CREATED: 12/08
UPDATED: -----

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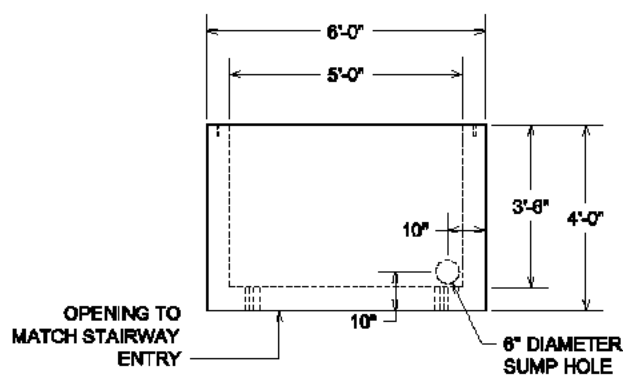
PRECAST CONCRETE BELOW GROUND (BG)

STAIRWAY EXTENSION

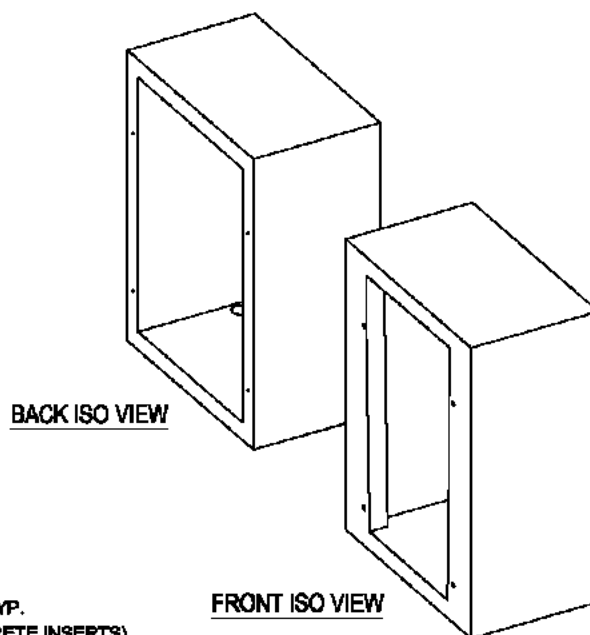
FOR USE WITH BELOW GROUND STORM SHELTERS WITH 36" DOORWAYS

5'-0" WIDE X 7'-0" TALL X 3'-6" DEEP INSIDE DIMENSIONS

VCP ITEM #SS-STAIRWAY EXTENSION-BG

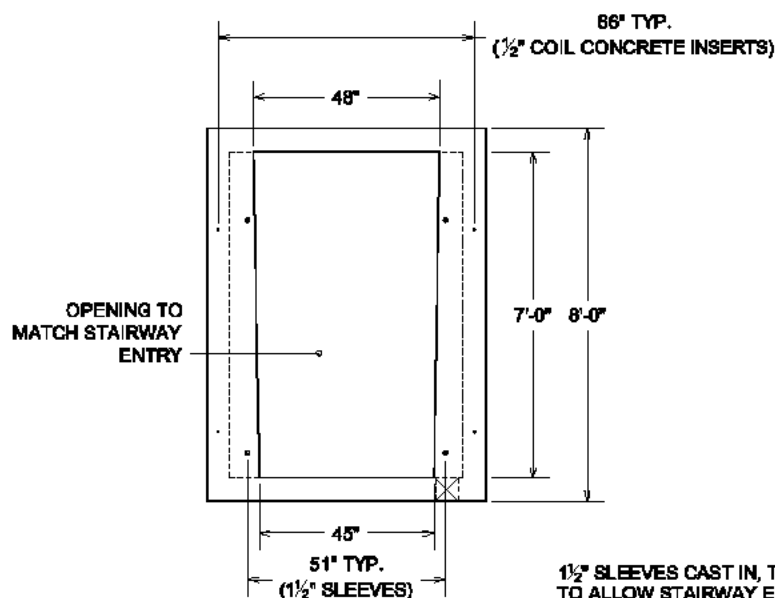


PLAN VIEW

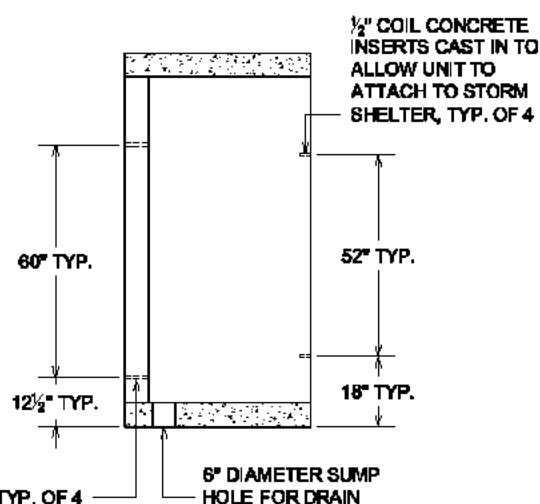


BACK ISO VIEW

FRONT ISO VIEW



ELEVATION VIEW



SECTION VIEW

UNIT WEIGHS APPROXIMATELY 8,300 LBS.

*ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY
*PRODUCT & DRAWING SUBJECT TO CHANGE WITHOUT NOTICE

NOTES:

- CONCRETE: 5,000 P.S.I. (MINIMUM)
- REINFORCING: GRADE 60; EQUAL TO #4 REBARS @ 12" O.C.E.W. (MIN.)

DRAWING NOT TO SCALE

SS-STAIRWAY EXTENSION-BG.DWG
DATE CREATED: 12/08
UPDATED: -----

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PRECAST CONCRETE BELOW GROUND (BG)

STORM SHELTER-SQUARE

LOCALLY MANUFACTURED, PRECAST CONCRETE SHELTER WITH WALK-IN DOOR,
BOTH CERTIFIED TO MEET NSSA STANDARD

STANDARD SQUARE SIZES ARE SHOWN IN THE CHART BELOW
(OTHER SIZES ARE AVAILABLE IN EVEN FOOT INCREMENTS BY SPECIAL ORDER ONLY)

VCP ITEM #	INSIDE LENGTH A	INSIDE WIDTH B	OUTSIDE LENGTH C	OUTSIDE WIDTH D	INSIDE HEIGHT	NUMBER OF 6" VENTS	SIZE OF EXCAVATION
#SS-606070-BGD	6'-0"	6'-0"	7'-0"	7'-0"	7'-0"	2	10'Wx10'Lx7'D**
#SS-808070-BGD	8'-0"	8'-0"	9'-0"	9'-0"	7'-0"	3	12'Wx12'Lx7'D**
#SS-10010070-BGD	10'-0"	10'-0"	11'-0"	11'-0"	7'-0"	4	14'Wx14'Lx7'D**

DEPTH OF EXCAVATION TO ALLOW FOR A MINIMUM OF 6" OF AGGREGATE TO FACILITATE DRAINAGE BELOW THE SHELTER**

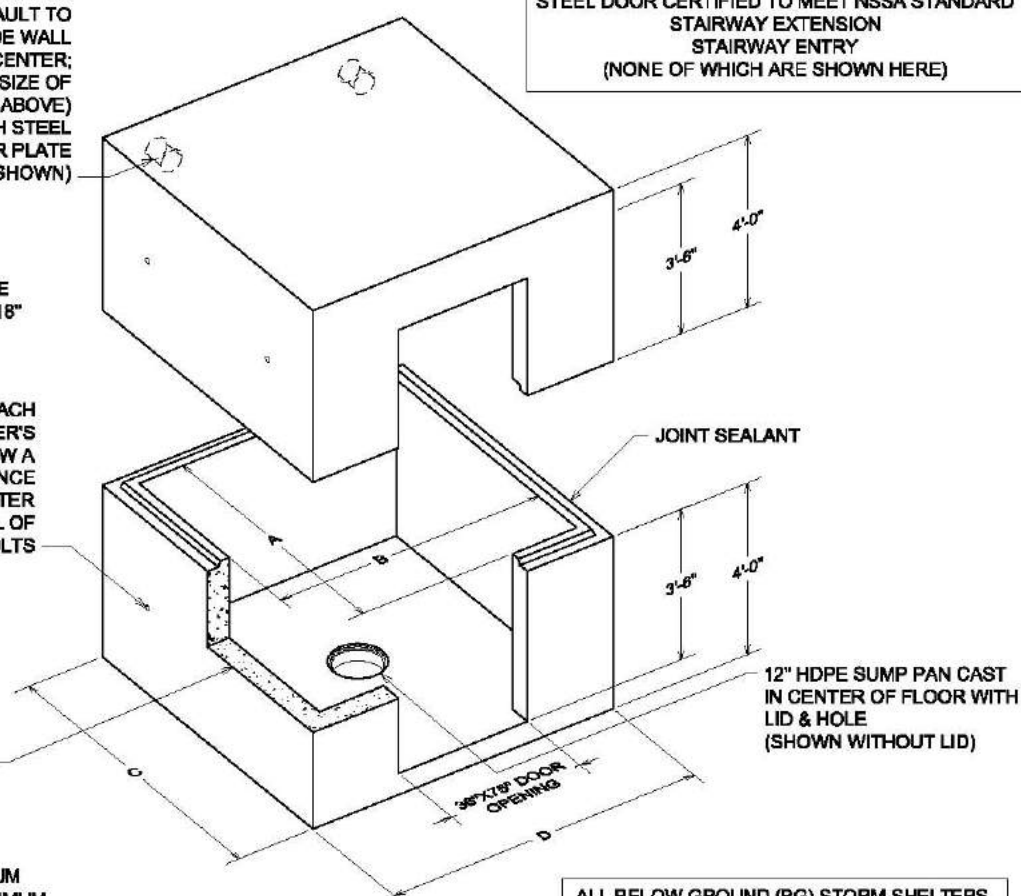
6" CONDUIT DUCT TERMINATORS FOR
VENT OPENINGS 9" OFF TOP OF VAULT TO
CENTER & 15" OFF EACH OUTSIDE WALL
TO CENTER;
QUANTITY DEPENDENT UPON SIZE OF
SHELTER (SEE CHART ABOVE)
EACH VENT PROVIDED WITH STEEL
DEFLECTOR PLATE
(NOT SHOWN)

STANDARD INSTALLATION
PROVIDES UNIT TO PROTRUDE
ABOVE GROUND LEVEL APPX. 18"

4 LIFTING INSERTS CAST IN EACH
SECTION, PURCHASER'S
EXCAVATION TO ALLOW A
MINIMUM OF 18" CLEARANCE
AROUND THE ENTIRE PERIMETER
OF SHELTER FOR REMOVAL OF
LIFTING BOLTS

CUT-AWAY TO SHOW SUMP

STORM SHELTER ALSO PROVIDED WITH:
STEEL DOOR CERTIFIED TO MEET NSSA STANDARD
STAIRWAY EXTENSION
STAIRWAY ENTRY
(NONE OF WHICH ARE SHOWN HERE)



NOTES:

- CONCRETE: 5000 P.S.I. MINIMUM
- REINFORCING: GRADE 60 MINIMUM
- *TOP SECTIONS: #4@12" O.C.E.W. (OR EQUIVALENT STRUCTURAL MESH)
- *BOTTOM SECTIONS: #5@12" O.C.E.W. (OR EQUIVALENT STRUCTURAL MESH)
- ALL REINFORCING CENTERED IN THE FLOOR, WALLS & ROOF THICKNESS

*ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

*PRODUCT & DRAWING SUBJECT TO CHANGE WITHOUT NOTICE

ALL BELOW GROUND (BG) STORM SHELTERS
ARE PROVIDED WITH 12" DIAMETER HDPE
SUMP PAN WITH DRAIN HOLE; 6" MINIMUM
AGGREGATE BASIN TO FACILITATE
DRAINAGE TO BE PLACED BELOW EACH
SHELTER'S SUMP LOCATION PRIOR TO
SETTING IT INTO THE READY EXCAVATION

DRAWING NOT TO SCALE

SS-SQUARE-BGD.DWG
DATE CREATED: 4/07
UPDATED: 5/07

vaughn concrete products, inc.

12650 Tucson Street • Henderson, Colorado 80640 • 303-659-3747, Fax 303-659-1333
2671 South Greeley Hwy • Cheyenne, Wyoming 82007 • 307-634-0695, Fax 307-634-0694
10021 Amarillo Blvd East • Amarillo, Texas 79108 • 806-374-3747, Fax 806-335-3717

PRECAST CONCRETE BELOW GROUND (BG)

STORM SHELTER-RECTANGULAR

LOCALLY MANUFACTURED, PRECAST CONCRETE SHELTER WITH WALK-IN DOOR,
BOTH CERTIFIED TO MEET NSSA STANDARD

STANDARD RECTANGULAR SIZES ARE SHOWN IN THE CHART BELOW
(OTHER SIZES ARE AVAILABLE IN EVEN FOOT INCREMENTS BY SPECIAL ORDER ONLY)

VCP ITEM #	INSIDE WIDTH A	INSIDE LENGTH B	OUTSIDE WIDTH C	OUTSIDE LENGTH D	INSIDE HEIGHT	NUMBER OF 6" VENTS	SIZE OF EXCAVATION
VCP #SS-50120-BGD	5'-0"	12'-0"	6'-0"	13'-0"	7'-0"	3	9'WX16' LX7'D**
VCP #SS-6080-BGD	6'-0"	8'-0"	7'-0"	9'-0"	7'-0"	2	10'WX12' LX7'D**
VCP #SS-60120-BGD	6'-0"	12'-0"	7'-0"	13'-0"	7'-0"	3	10'WX16' LX7'D**
VCP #SS-60160-BGD	6'-0"	16'-0"	7'-0"	17'-0"	7'-0"	4	10'WX20' LX7'D**
VCP #SS-60180-BGD	6'-0"	18'-0"	7'-0"	19'-0"	7'-0"	4	10'WX22' LX7'D**
VCP #SS-60240-BGD	6'-0"	24'-0"	7'-0"	25'-0"	7'-0"	6	10'WX28' LX7'D**
VCP #SS-80100-BGD	8'-0"	10'-0"	9'-0"	11'-0"	7'-0"	3	12'WX14' LX7'D**
VCP #SS-80120-BGD	8'-0"	12'-0"	9'-0"	13'-0"	7'-0"	4	12'WX15' LX7'D**
VCP #SS-100120-BGD	10'-0"	12'-0"	11'-0"	13'-0"	7'-0"	5	14'WX16' LX7'D**

DEPTH OF EXCAVATION TO ALLOW FOR A MINIMUM OF 6" OF AGGREGATE TO FACILITATE DRAINAGE BELOW THE SHELTER**

6" CONDUIT DUCT TERMINATORS FOR
VENT OPENINGS 9" OFF TOP OF VAULT TO
CENTER & 15" OFF EACH OUTSIDE WALL
TO CENTER;
QUANTITY DEPENDENT UPON SIZE OF
SHELTER (SEE CHART ABOVE)
EACH VENT PROVIDED WITH STEEL
DEFLECTOR PLATE
(NOT SHOWN)

4 LIFTING INSERTS CAST IN EACH
SECTION, PURCHASER'S
EXCAVATION TO ALLOW A
MINIMUM OF 18" CLEARANCE
AROUND THE ENTIRE PERIMETER
OF SHELTER FOR REMOVAL OF
LIFTING BOLTS

CUT-AWAY TO SHOW SUMP

STORM SHELTER ALSO PROVIDED WITH:
STEEL DOOR CERTIFIED TO MEET NSSA STANDARD
STAIRWAY EXTENSION
STAIRWAY ENTRY
(NONE OF WHICH ARE SHOWN HERE)

STANDARD INSTALLATION
PROVIDES UNIT TO PROTRUDE
ABOVE GROUND LEVEL APPX. 18"

JOINT SEALANT

12" HDPE SUMP PAN CAST
IN CENTER OF FLOOR WITH
LID & HOLE
(SHOWN WITHOUT LID)

NOTES:

- CONCRETE: 5000 P.S.I. MINIMUM
- REINFORCING: GRADE 60 MINIMUM
- *TOP SECTIONS: #4@12" O.C.E.W. (OR EQUIVALENT STRUCTURAL MESH)
- *BOTTOM SECTIONS: #5@12" O.C.E.W. (OR EQUIVALENT STRUCTURAL MESH)
- ALL REINFORCING CENTERED IN THE FLOOR, WALLS & ROOF THICKNESS

*ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY
*PRODUCT & DRAWING SUBJECT TO CHANGE WITHOUT NOTICE

ALL BELOW GROUND (BG) STORM SHELTERS
ARE PROVIDED WITH 12" DIAMETER HDPE
SUMP PAN WITH DRAIN HOLE; 6" MINIMUM
AGGREGATE BASIN TO FACILITATE
DRAINAGE TO BE PLACED BELOW EACH
SHELTER'S SUMP LOCATION PRIOR TO
SETTING IT INTO THE READY EXCAVATION

DRAWING NOT TO SCALE

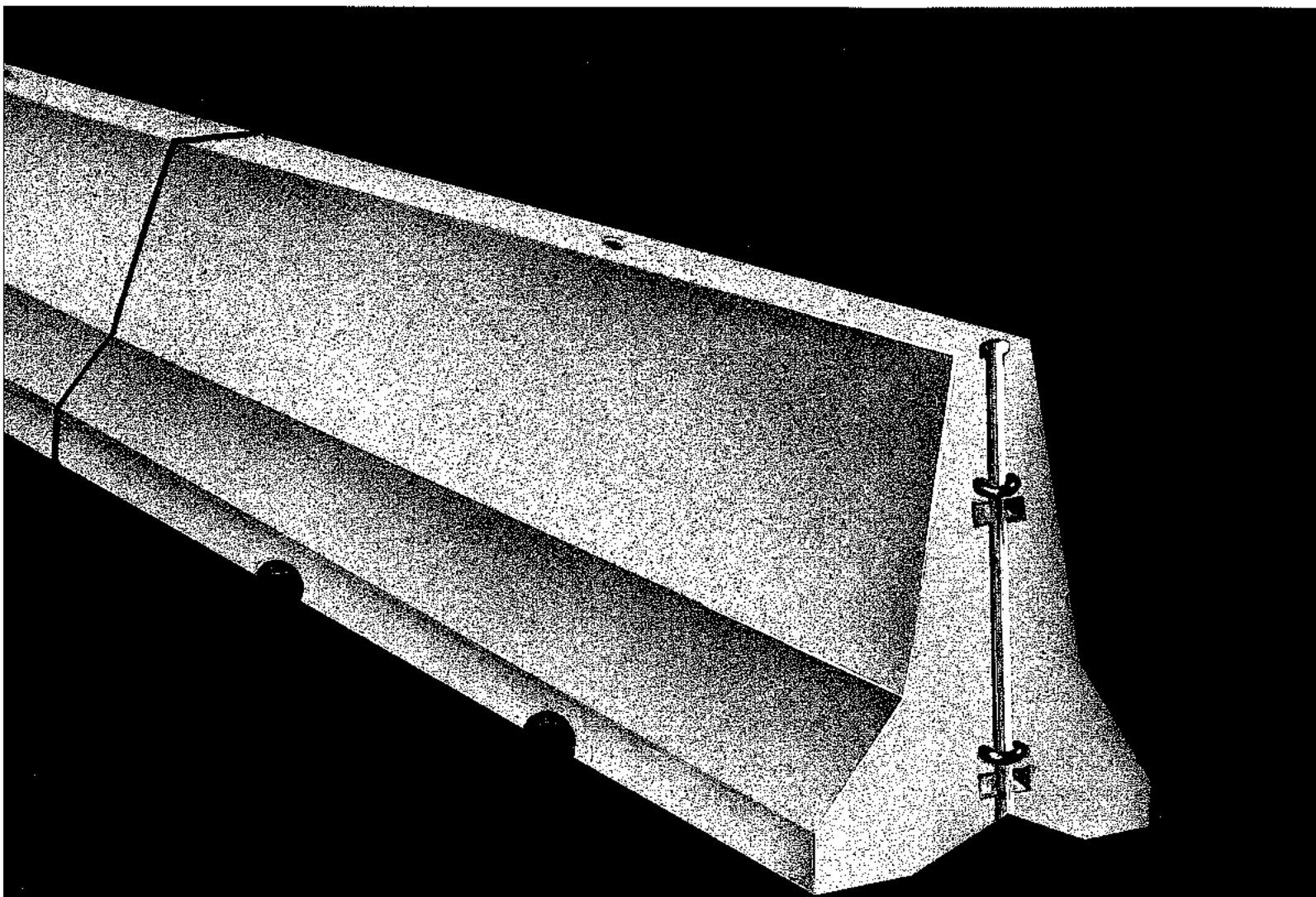
SS-RECTANGULAR-BGD.DWG
DATE CREATED: 4/07
UPDATED: 9/07

vaughn concrete products, inc.

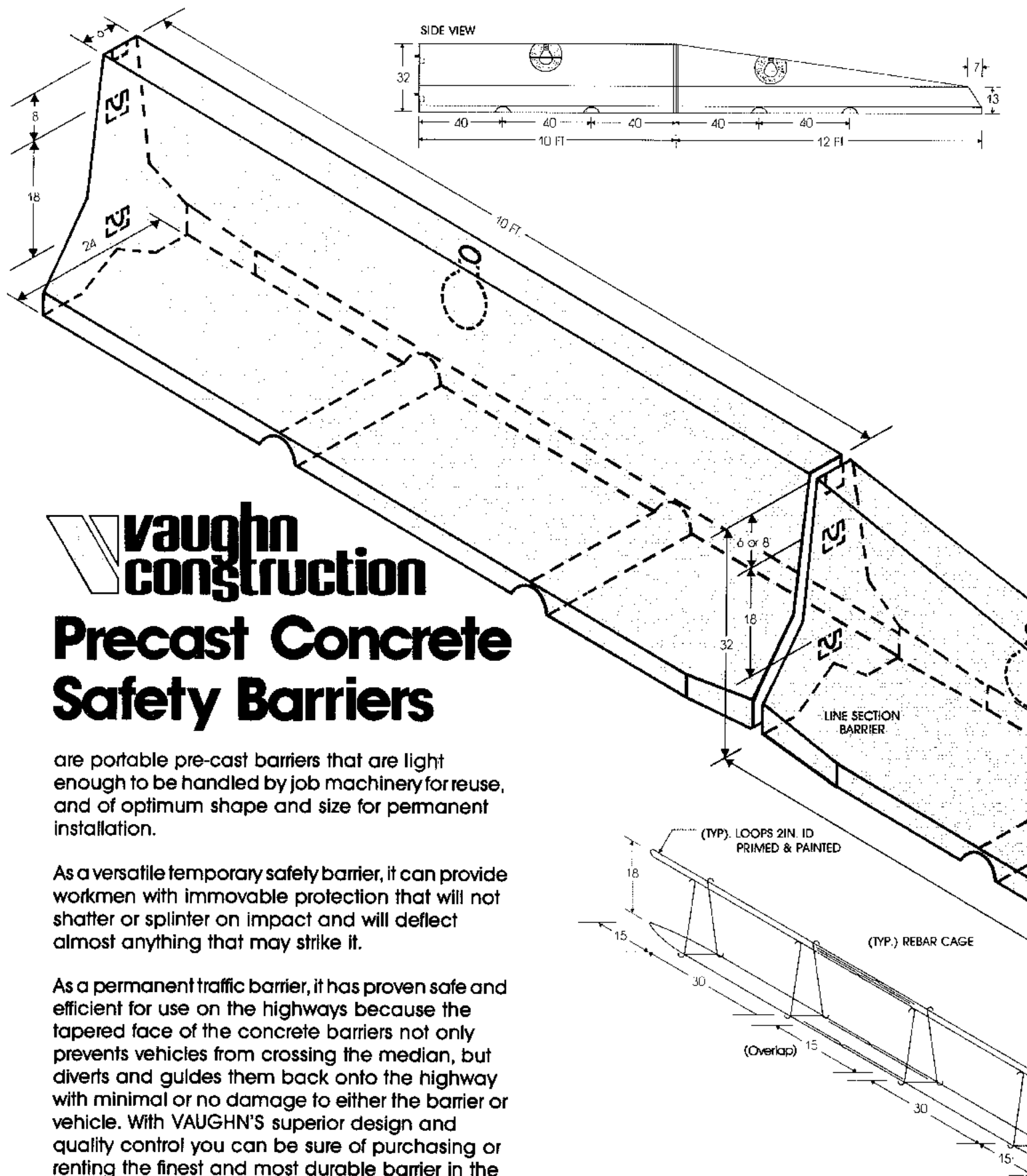
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2671 South Greeley Hwy • Cheyenne, Wyoming 82007 • 307-634-0695, Fax 307-634-0694
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vaughn concrete products

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2671 So. Greeley Highway • Cheyenne, Wyoming 82007 • (307) 634-0695



Precast Concrete Safety Barrier



vaughn construction **Precast Concrete Safety Barriers**

are portable pre-cast barriers that are light enough to be handled by job machinery for reuse, and of optimum shape and size for permanent installation.

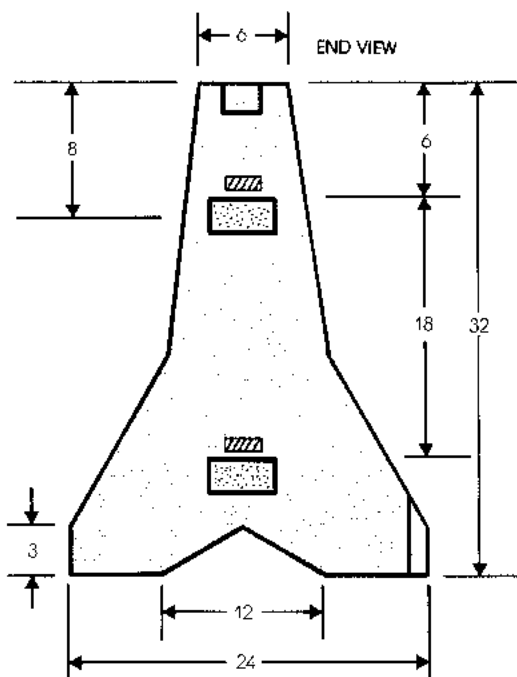
As a versatile temporary safety barrier, it can provide workmen with immovable protection that will not shatter or splinter on impact and will deflect almost anything that may strike it.

As a permanent traffic barrier, it has proven safe and efficient for use on the highways because the tapered face of the concrete barriers not only prevents vehicles from crossing the median, but diverts and guides them back onto the highway with minimal or no damage to either the barrier or vehicle. With VAUGHN'S superior design and quality control you can be sure of purchasing or renting the finest and most durable barrier in the market.

We maintain a stock of safety barriers to fulfill your immediate and/or future needs.

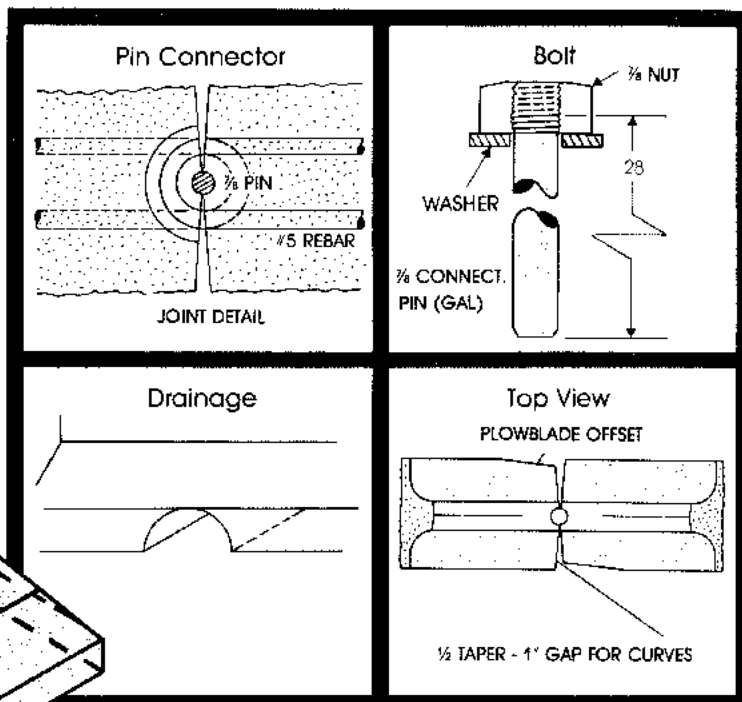
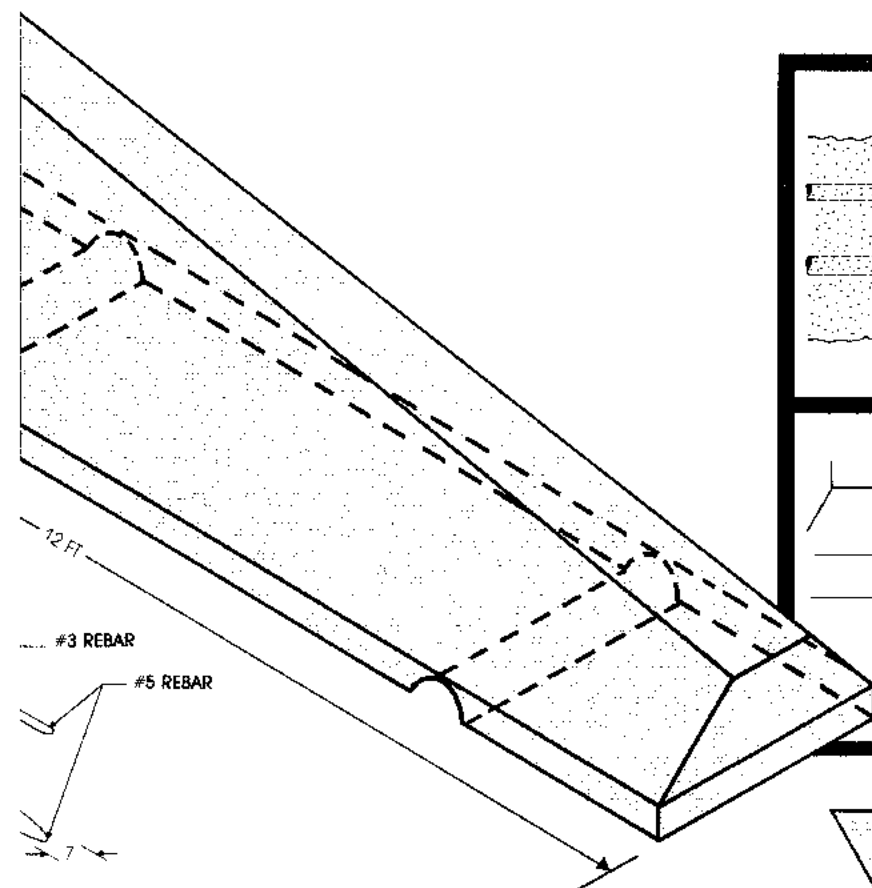
Call or write us for an estimate

Significant Benefits:



- Approved design: State of Colorado standard.
- High quality casting: Smooth, uniform finish, and precise dimensions.
- Maximum versatility: Can be use for both permanent or temporary locations.
- Easy handling and placement: Convenient 10 ft. sections with cast-in identifying marks for mating ends.
- Durability and strength: Steel reinforced concrete.
- Weight: 4000 lbs. per 10 ft. sections.
- VAUGHN SAFETY BARRIERS delivers to construction site for either permanent or temporary installation.

The #1 Precast Concrete Safety Barrier



vaughn
construction
PRE-CAST CONCRETE PRODUCTS

The #1 safety barrier in the market ..

Purchase

Purchase our safety barrier complete with connecting pins. Have the barriers loaded on your truck, or trailer, at our plant or have us deliver to your job site with our crane equipped truck.

Rental

We offer an economical way to provide temporary, or long term use for road maintenance, safety improvements, or anywhere traffic flow must be regulated or workmen protected. Rental rates are based on a per foot per month basis. We deliver to the work site and pick up the barrier after the job has been completed.

We maintain a large stock of barriers to meet your immediate safety needs.

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2671 So. Greeley Hwy. • Cheyenne, Wyoming 82007 • (307) 634-0695

 **vaughn
excavating & construction, inc.**
PRE-CAST CONCRETE PRODUCTS
12650 Tucson Street Henderson, Colorado 80640-9499

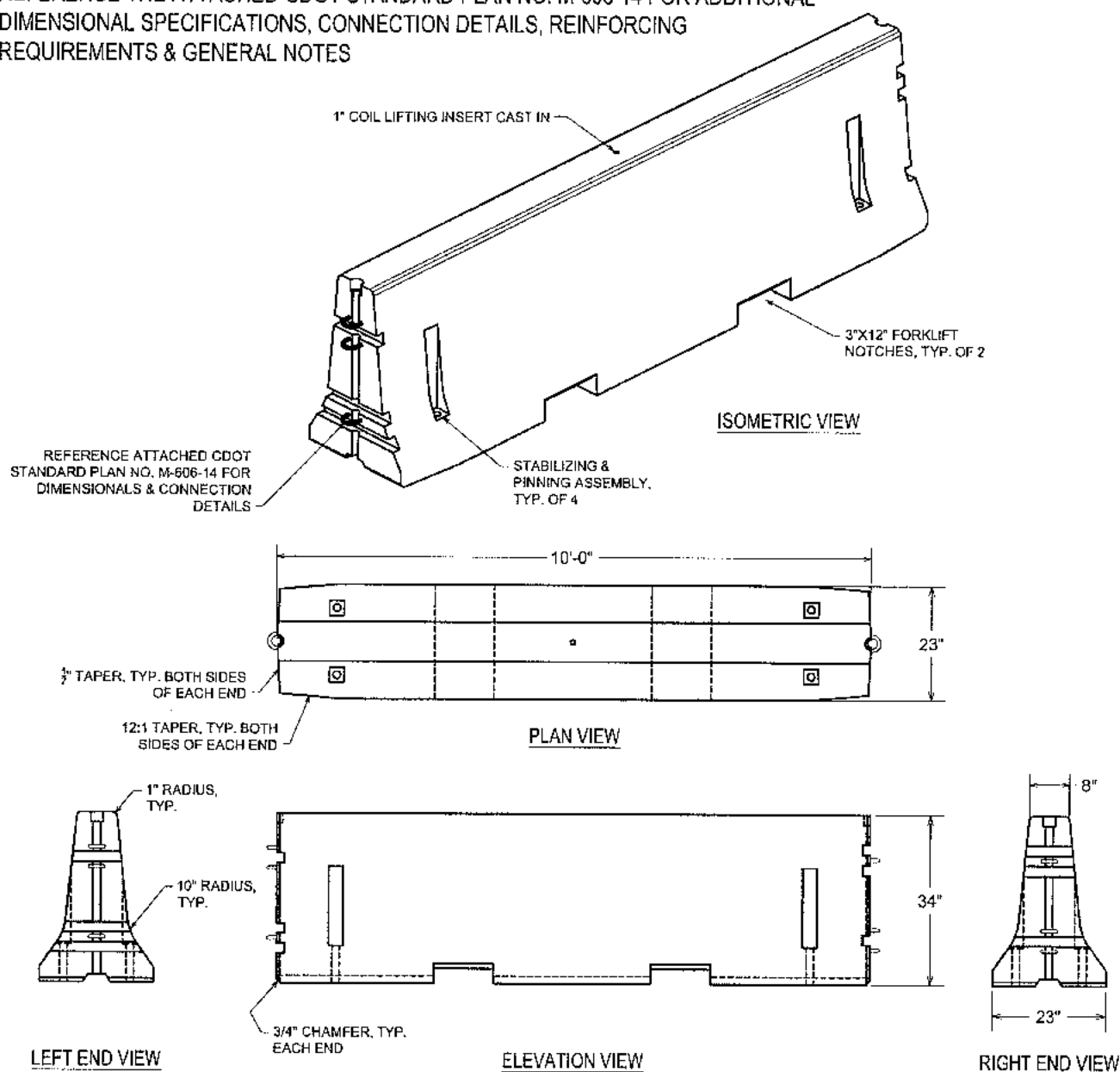
PRECAST CONCRETE

TYPE 7 SAFETY BARRIER

SHEET 1 OF 4

PER THE APPROVED DESIGN BY THE COLORADO DEPT. OF TRANSPORTATION

REFERENCE THE ATTACHED CDOT STANDARD PLAN NO. M-606-14 FOR ADDITIONAL
DIMENSIONAL SPECIFICATIONS, CONNECTION DETAILS, REINFORCING
REQUIREMENTS & GENERAL NOTES



BARRIER WEIGHT: ~4,500 LBS. EACH

CONCRETE : 4,000 P.S.I. (MINIMUM)

REINFORCING: REBAR & A-36 PER CDOT STANDARDS (SEE ATTACHED SHEETS)

[ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY]

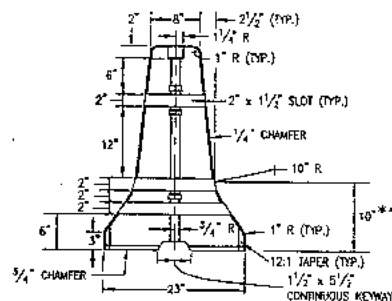
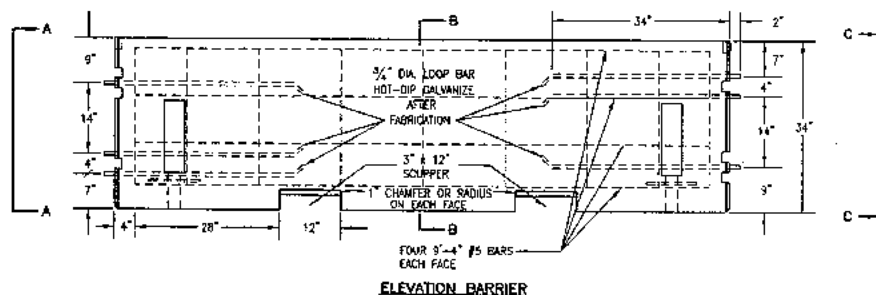
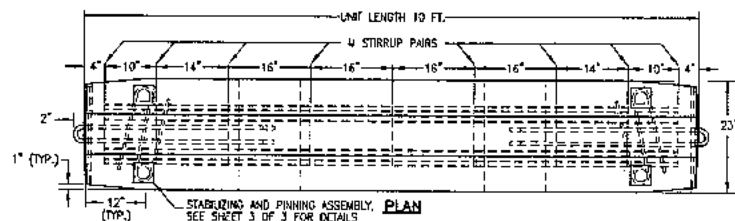
DRAWING IS NOT TO SCALE

Vaughn
concrete products, inc.

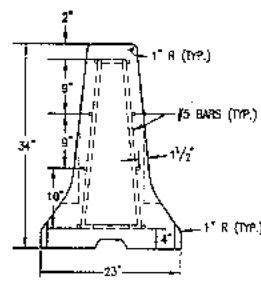
BARRIER - TYPE 7.DWG
DATE CREATED: 11/05
UPDATED:

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2671 South Greeley Hwy • Cheyenne, Wyoming 82007 • 307-634-0695, Fax 307-634-0694
10021 Amarillo Blvd. East • Amarillo, Texas 79108 • 806-374-3747, Fax 806-335-3717

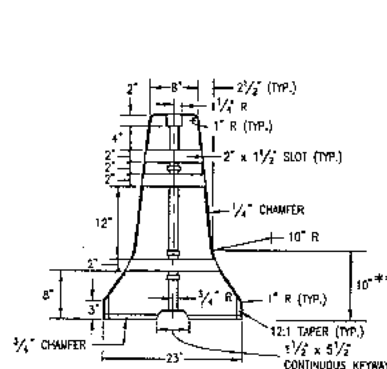
THIS DRAWING IS A DUPLICATION FROM CDOT'S WEBSITE @ <http://www.dot.state.co.us/>
THIS BARRIER IS AVAILABLE FOR PURCHASE OR RENT @ VAUGHN CONCRETE PRODUCTS, INC. @ 1.877.827.8255



SECTION A-A



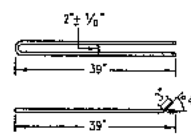
SECTION B-B



SECTION C-C

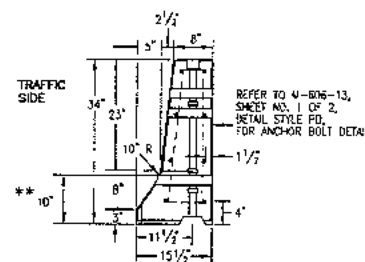
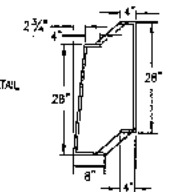


STIRRUP "M" #5 REBAR

LOOP BENDING DETAIL
(ASTM A36)

GENERAL NOTES

1. ALL METAL REINFORCEMENT SHALL BE 2 IN. CLEAR OF NEAREST FACE OF CONCRETE UNLESS OTHERWISE SHOWN.
2. CONCRETE SHALL BE CLASS B OR D.
3. FOR TEMPORARY INSTALLATIONS, A MINIMUM 4 FT. DISTANCE SHALL EXIST FROM THE CENTERLINE OF THE CONCRETE BARRIER TO ANY OBSTRUCTIONS BEHIND IT. IN TEMPORARY INSTALLATIONS WITH LESS THAN A 4 FT. MINIMUM DISTANCE, STABILIZATION PINS SHALL BE USED ON EACH BARRIER UNIT ADJACENT TO, AND WITHIN 10 FT. OF BOTH SIDES OF THE OBSTRUCTION. SEE SHEET 3 OF 3 FOR STABILIZATION PINNING DETAILS.
4. CLEAR ZONE DISTANCE REQUIREMENTS SHALL BE CALCULATED AS SPECIFIED IN THE LATEST EDITION OF THE "ROADSIDE DESIGN GUIDE".
5. STABILIZATION PINS SHALL BE USED TO ANCHOR EACH 10 FT. UNIT IN ALL PERMANENT INSTALLATIONS. SEE SHEET 3 OF 3 FOR STABILIZATION PINNING DETAILS.
6. ALL PERMANENT INSTALLATIONS REQUIRE END ANCHORAGES. SEE SHEET M-606-13, 1 OF 4 FOR ANCHORAGE DETAILS.
7. THE MONTH AND YEAR THE PRECAST TYPE 7 CONCRETE BARRIER WAS MANUFACTURED SHALL BE MOLDED INTO ONE END OF EACH 10 FT. BARRIER UNIT.
8. APPROVED NON-SHRINK GROUT SHALL BE USED FOR GROUTING OVER ALL PINS AND GROUTING OF SCUPPERS.
9. WHEN HYDRAULIC ANALYSIS ALLOWS, SCUPPERS MAY NOT BE NEEDED ON:
 - A. MEDIAN INSTALLATION WITH INLET DRAINAGE.
 - B. SHOULDER BARRIER ON HIGH EDGE OF A SUPERELEVATED SHOULDER.
 - C. MEDIAN BARRIER ON A CREST VERTICAL CURVE.
 - D. PERMANENT BARRIER, IF SPECIFIED ON PLANS.
10. ALL INCIDENTAL WORK AND MATERIALS SUCH AS CONNECTING PINS, ANCHORS BOLTS, GROUT, EXCAVATION FOR END ANCHORAGE, ETC. SHALL BE INCLUDED IN THE COST OF THE BARRIER.

NARROW BASE
SHOULDER BARRIERNARROW BASE
STIRRUP "M" #5 REBAR

** DIMENSIONS MARKED ARE TO THE INTERSECTION POINT OF THE BARRIER SLOPES. CONSTRUCT THE 10 IN. RADIUS TO PROVIDE A SMOOTH TRANSITION BETWEEN THE SLOPES.

Colorado Department of Transportation



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Project Development Branch

SRJ

Computer File Information

Path: www.dot.state.co.us/DevelopProjects/DesignSupport/Standards/

Drawing File Name: 6060140103.dwg

Acad Version: R14 Scale: NA Units: English

Standard Plan Revised

Date: _____

Comments: _____

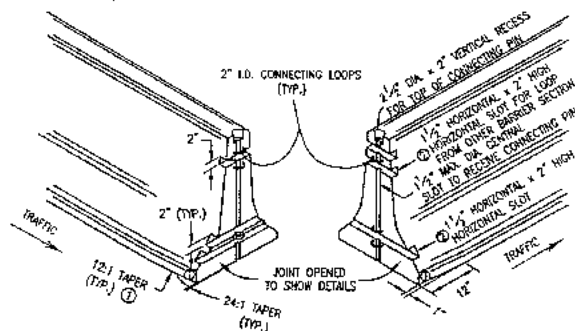
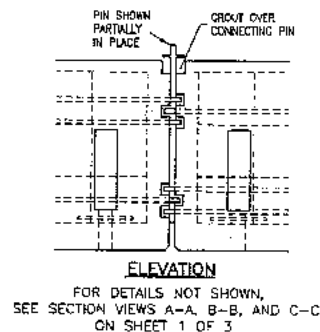
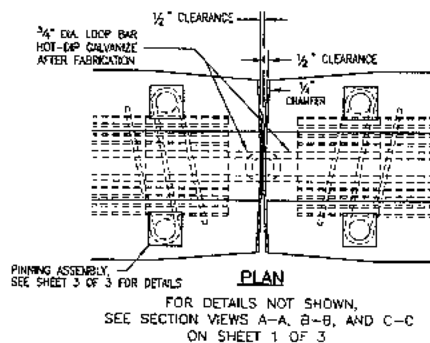
**PRECAST TYPE 7
CONCRETE BARRIER**

Issued By: Project Development Branch July 02, 2002

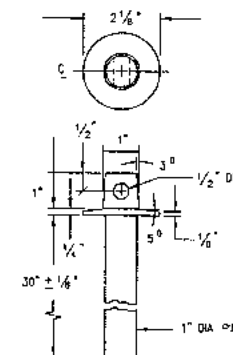
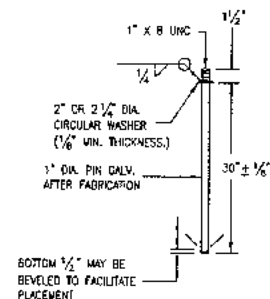
STANDARD PLAN NO.

M-606-14

Sheet No. 1 of 3




- ① A 1 INCH BY 12 INCH TAPER WILL BE REQUIRED AT THE BOTTOM OF ALL FOUR CORNERS OF BARRIER SECTIONS TO ELIMINATE SHADING OF SNOW PLOW BLADES. THE TAPER WILL BE OPTIONAL ON PERMANENT INSTALLATIONS.
- ② THE HORIZONTAL SLOTS SHALL BE 1 1/2 INCH (HORIZONTAL) AT THE CENTER OF THE BARRIER AND MAY DECREASE HORIZONTALLY AT THE EDGE OF THE BARRIER DUE TO THE (24:1) TAPER.



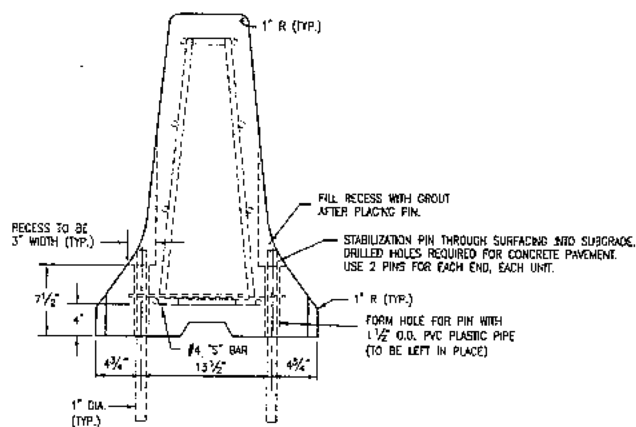
PIN NOTES

1. WASHERS SHALL BE FORGED AS AN INTEGRAL PART OF THE PIN, OR SHALL BE WELDED AS SHOWN.
2. PINS SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION.
3. IF AN ALTERNATIVE TOP CONFIGURATION IS USED FOR LIFTING, THE LIFTING PIN SHALL BE PROVIDED. PINS MUST CONFORM TO CRITICAL DIMENSIONS (PIN LENGTH DIAMETER).
4. PINS SHALL CONFORM TO ASTM A449.
5. APPROVED NON-SHRINK GROUT SHALL BE USED FOR GROUTING OVER ALL PINS, AND GROUTING OF SCUPPERS.
6. JOINTS BETWEEN CAST-IN-PLACE GUARDRAIL TYPE 7 AND PERMANENT INSTALLATION PRECAST TYPE 7 CONCRETE BARRIER, SHALL INCLUDE ALL REGRESSES AND LOOPS IN THE CAST-IN-PLACE END, ALONG WITH THE PIN TO COMPLETE THE TYPICAL PRECAST TYPE 7 CONCRETE BARRIER JOINT.

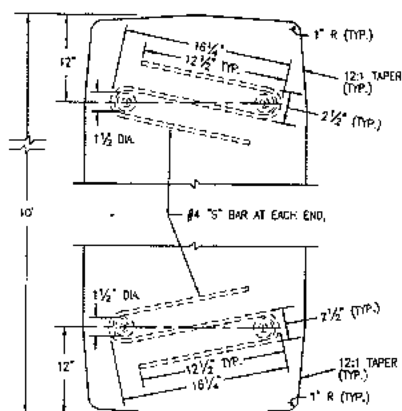
DETAILS FOR PIN AND LOOP CONNECTION

Colorado Department of Transportation  4201 East Arkansas Avenue Denver, Colorado 80222 Phone: (303) 757-9083 FAX: (303) 757-9820 Project Development Branch SRJ	Computer File Information Path: www.dot.state.co.us/DevelopProjects/DesignSupport/MSStandards/ Drawing File Name: B060140203.dwg Acad Version: R14 Scale: NA Units: English	Standard Plan Revised Date: _____ Comments: _____ _____ _____	PRECAST TYPE 7 CONCRETE BARRIER Issued By: Project Development Branch July 02, 2002	STANDARD PLAN NO. M-606-14 Sheet No. 2 of 3
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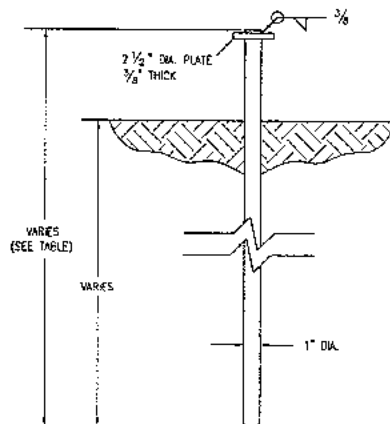
THIS DRAWING IS A DUPLICATION FROM CDOT'S WEBSITE @ <http://www.dot.state.co.us/>
THIS BARRIER IS AVAILABLE FOR PURCHASE OR RENT @ VAUGHN CONCRETE PRODUCTS, INC. @ 1.877.827.8255



ELEVATION VIEW WITH PINS



PLAN VIEW OF S BAR ENDS



STABILIZATION PIN
(ASTM A 36 STEEL)

TABLE OF STABILIZATION PIN LENGTHS

ROAD SURFACE	LENGTH
CONCRETE	2 FT. - 6 IN.
HBP	3 FT.
SOIL	3 FT. - 6 IN.

DETAILS FOR STABILIZATION OF PERMANENT
OR TEMPORARY PINNED PRECAST TYPE 7 CONCRETE BARRIER

GENERAL NOTES

1. SEE SHEET 1 OF 3 FOR REINFORCEMENT AND OTHER DETAILS NOT SHOWN HERE.
2. PERMANENT PRECAST BARRIER USED TO REPLACE OTHER CONCRETE BARRIERS, SHALL BE IN NEW CONDITION, UNDAIMAGED, WITH NO REPAIRS.
3. FOR TEMPORARY INSTALLATIONS, A MINIMUM 4 FT. CLEAR ZONE MUST EXIST FROM THE CENTERLINE OF THE CONCRETE BARRIER TO ANY OBSTRUCTIONS BEHIND IT. IN TEMPORARY INSTALLATIONS WITH LESS THEN A 4 FT. MINIMUM CLEAR ZONE, STABILIZATION PINS SHALL BE USED ON EACH BARRIER UNIT ADJACENT TO, AND WITHIN 10 FT. OF BOTH SIDES OF THE OBSTRUCTION.
4. FOR TERMINAL ANCHORING OF THE PERMANENT INSTALLATION OF PRECAST TYPE 7 CONCRETE BARRIER, SEE THE END ANCHORAGE DETAIL ON SHEET M-606-13, 1 OF 4.
5. APPROVED NON-SHRINK GROUT SHALL BE USED FOR GROUTING OVER ALL PINS AND GROUTING OF SCUPPERS.

Colorado Department of Transportation



4201 East Arkansas Avenue
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Project Development Branch

SRJ

Computer File Information

Path: www.dot.state.co.us/Development/DesignSupport/USStandards/

Drawing File Name: 6069140303.dwg

Acad Version: R14 Scale: NA Units: English

Standard Plan Revised

Date: Comments:

**PRECAST TYPE 7
CONCRETE BARRIER**

Issued By: Project Development Branch July 02, 2002

STANDARD PLAN NO.

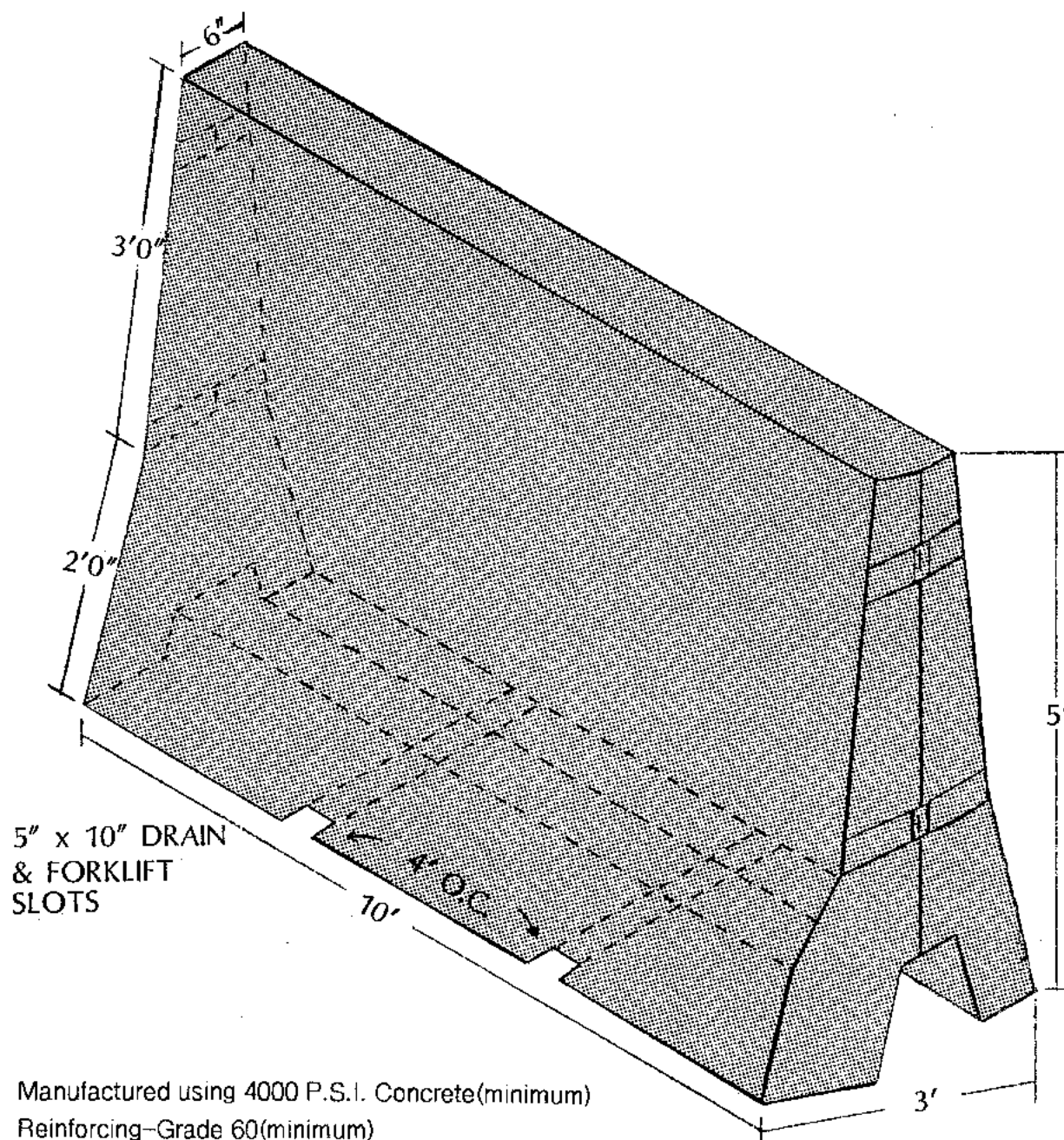
M-606-14

Sheet No. 3 of 3

Precast Concrete

Special Heavy Duty Barrier

(5 ft. tall)



Manufactured using 4000 P.S.I. Concrete(minimum)

Reinforcing-Grade 60(minimum)

Weight 7,600 per 10 ft. section

Actual dimensions of concrete products may vary slightly.

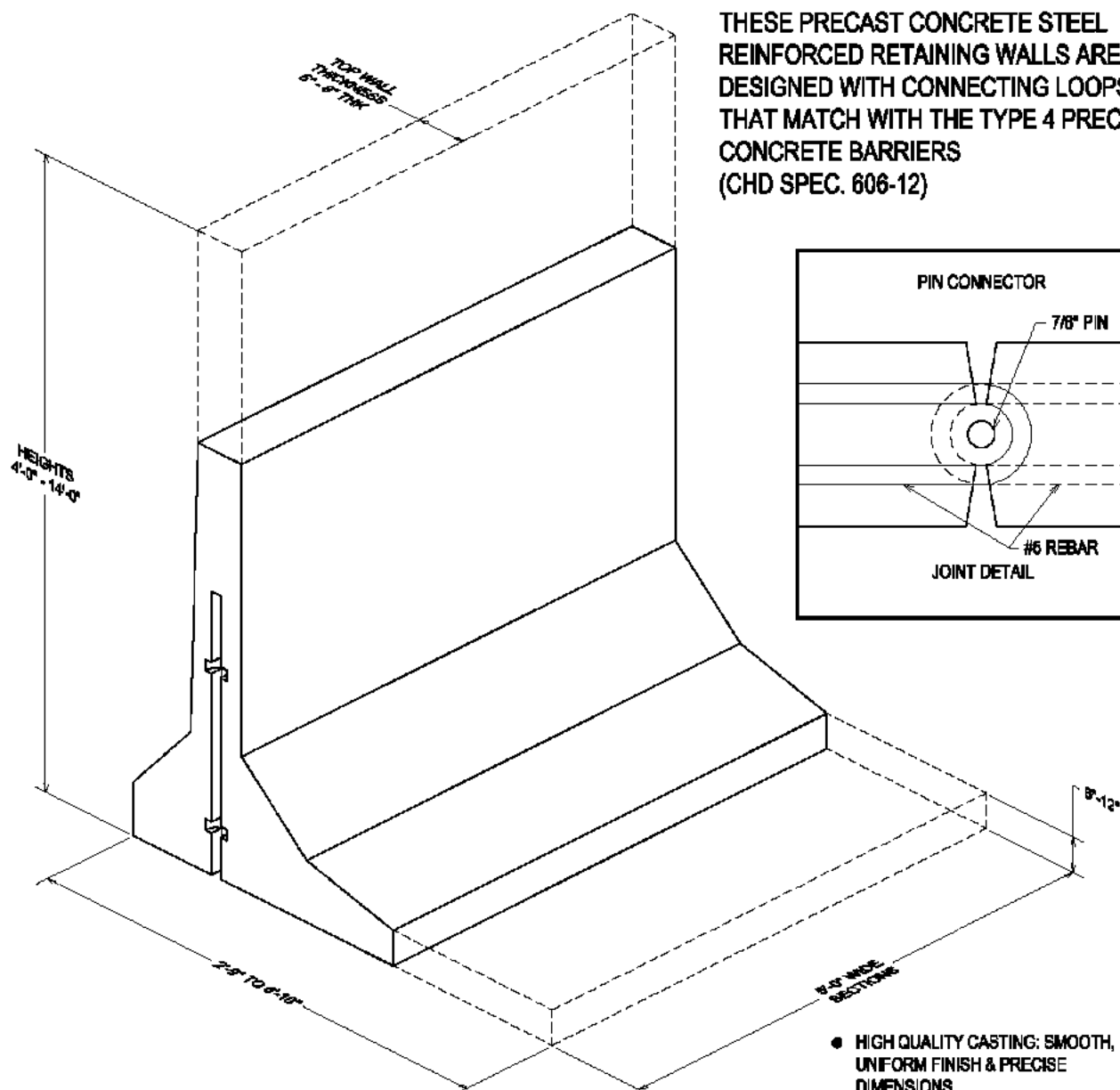
vaughn
concrete products, inc.

UPDATED 11/97

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PRECAST CONCRETE BARRIER WALL

COLORADO STATE HWY DEPT. SPEC. "L WALLS"



THESE PRECAST CONCRETE STEEL REINFORCED RETAINING WALLS ARE DESIGNED WITH CONNECTING LOOPS THAT MATCH WITH THE TYPE 4 PRECAST CONCRETE BARRIERS (CHD SPEC. 606-12)

- HIGH QUALITY CASTING: SMOOTH, UNIFORM FINISH & PRECISE DIMENSIONS
- MAXIMUM VERSATILITY: CAN BE USED FOR BOTH PERMANENT OR TEMPORARY LOCATIONS.
- EASY HANDLING & PLACEMENT

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

vaughn
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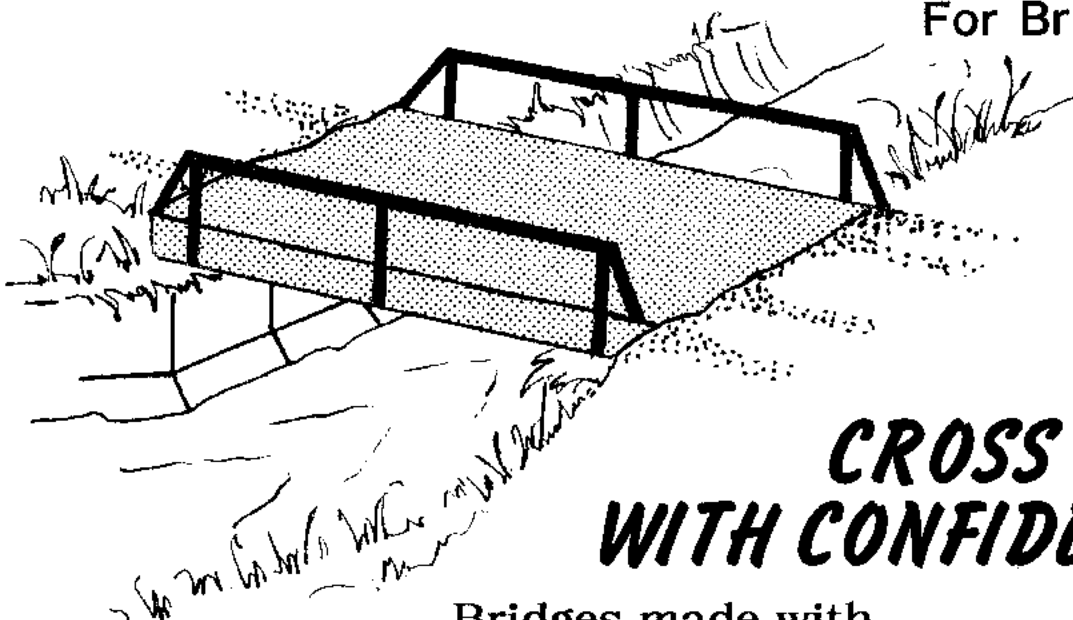
C-BARRIER WALL CO.DWG
DATE CREATED: 11.21.02

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10021 Amarillo Blvd. East • Amarillo, Texas 79108 • 806-374-3747, Fax 806-335-3717

Precast Concrete

PRESTRESSED BEAMS

For Bridges

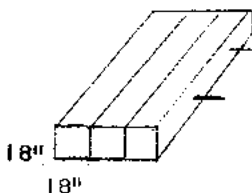


Also see
U Culvert sheet
for Bridge
Information

**CROSS
WITH CONFIDENCE**

Bridges made with
Vaughn Concrete Products Prestressed Beams

18" x 18" Beam - made to order in the length you need
prestressed with 1/2" prestress strand for top strength
Maximum span, 26 ft. for H20 loading



Beams are bolted together with 7/8" threaded rod
which is placed through sleeve cast in beam

Add number of beams to make the width you need

The ease of handling and fast installation makes it
ideal for permanent or temporary locations

INSTALLATION:

Install your own, or have Vaughns install for you
Precast footing available
with Retaining Walls used for wing walls

18" Beam Weights:
326 lbs. per lin. ft.

Optional Steel pipe railings bolt to bridge

Actual dimensions of concrete products may vary slightly.

vaughn
concrete products, inc.

UPDATED 11/97

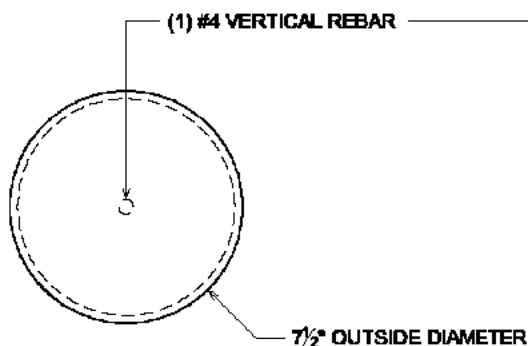
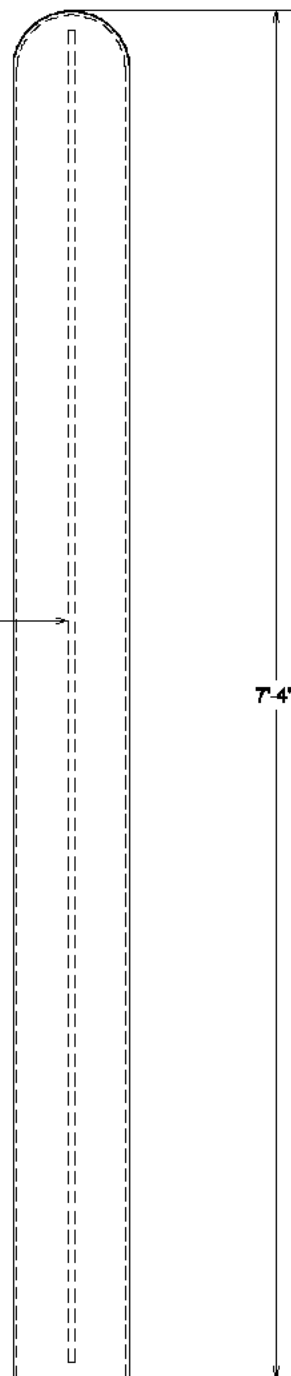
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PRECAST CONCRETE

BOLLARDS

7½" DIAMETER X 7'-4" LONG

- GREAT FOR PROTECTING STORE FRONTS, GAS PUMPS, FENCING, GATES, SCHOOLS, TRANSFORMERS, SWITCH GEAR & UTILITIES OF ALL TYPES
- ROTO MOLDED POLYETHYLENE EXTERIOR SHELL FILLED WITH REINFORCED CONCRETE
- YELLOW BOLLARDS ARE IN STOCK & READY FOR PICK-UP
- RED, BLUE, GRANITE LIGHT GRAY OR GRANITE DARK GRAY BOLLARDS ARE AVAILABLE AS SPECIAL ORDER ITEMS (MIN. ORDER OF 20 REQUIRED)
- CONTRACTOR FRIENDLY
- EASY INSTALLATION
- IMPACT RESISTANT
- UV RESISTANT

**PLAN VIEW****ELEVATION VIEW****WEIGHT:**

- BOLLARD WEIGHS APPX. 335 LBS.

NOTES:

- CONCRETE: 4000 P.S.I. MINIMUM
- REINFORCING: (1) #4 VERTICAL REBAR

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

DRAWING NOT TO SCALE

7.5 INCH BOLLARD.DWG
DATE CREATED: 12/ 2009
UPDATED: -----

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www.vaughnconcreteproducts.com

Precast Concrete Bollards



Vaughn concrete products, inc.

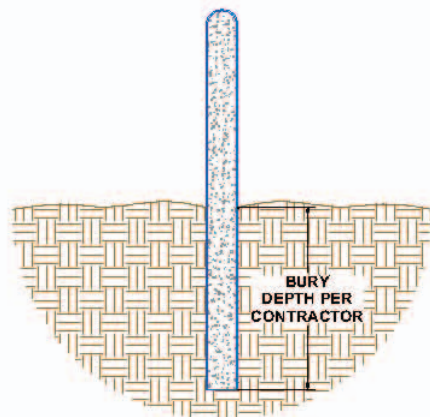
"Where Quality and Service Are Top Priority"

Keep the "things you value" safe!

- Bollards Are 7½" Diameter x 7'-4" Tall & Weigh Appx. 335 Lbs.
- Roto Molded Polyethylene Exterior, Filled With Reinforced Concrete
- Yellow Bollards Are In Stock & Available For Pick-Up
- The Following Colors Are Available As Special Order Items (Minimum Order Of 20 Required For These Colors)



- Impact Resistant
- UV Resistant
- Easy Installation
- Contractor Friendly
- Great For Protecting Utilities, Store Fronts, Gas Pumps, Fencing, Gates, Schools Or Anything That You Value!



Vaughn concrete products, inc.

12650 Tucson St – Henderson, CO
2671 So. Greeley Hwy – Cheyenne, WY
10021 Amarillo Blvd East – Amarillo, TX
Toll-Free Phone: (877) 827-8255
Toll-Free Fax: (877) 827-7363
www.vaughnconcreteproducts.com

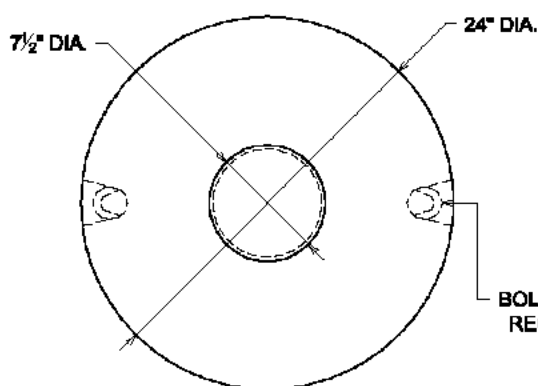
Contact Us Today For Pricing & Availability!

PRECAST CONCRETE

BOLLARD WITH PRECAST BASE

7½" DIAMETER X 7'-4" LONG

- **NO SECONDARY POUR REQUIRED!!!**
- **GREAT FOR PROTECTING STORE FRONTS, GAS PUMPS, FENCING, GATES, SCHOOLS, TRANSFORMERS, SWITCH GEAR & UTILITIES OF ALL TYPES**
- **ROTO MOLDED POLYETHYLENE EXTERIOR SHELL FILLED WITH REINFORCED CONCRETE**
- **YELLOW BOLLARDS ARE IN STOCK & READY FOR PICK-UP**
- **RED, BLUE, GRANITE LIGHT GRAY OR GRANITE DARK GRAY BOLLARDS ARE AVAILABLE AS SPECIAL ORDER ITEMS (MIN. ORDER OF 20 REQUIRED)**
- **CONTRACTOR FRIENDLY**
- **EASY INSTALLATION**
- **IMPACT RESISTANT**
- **UV RESISTANT**

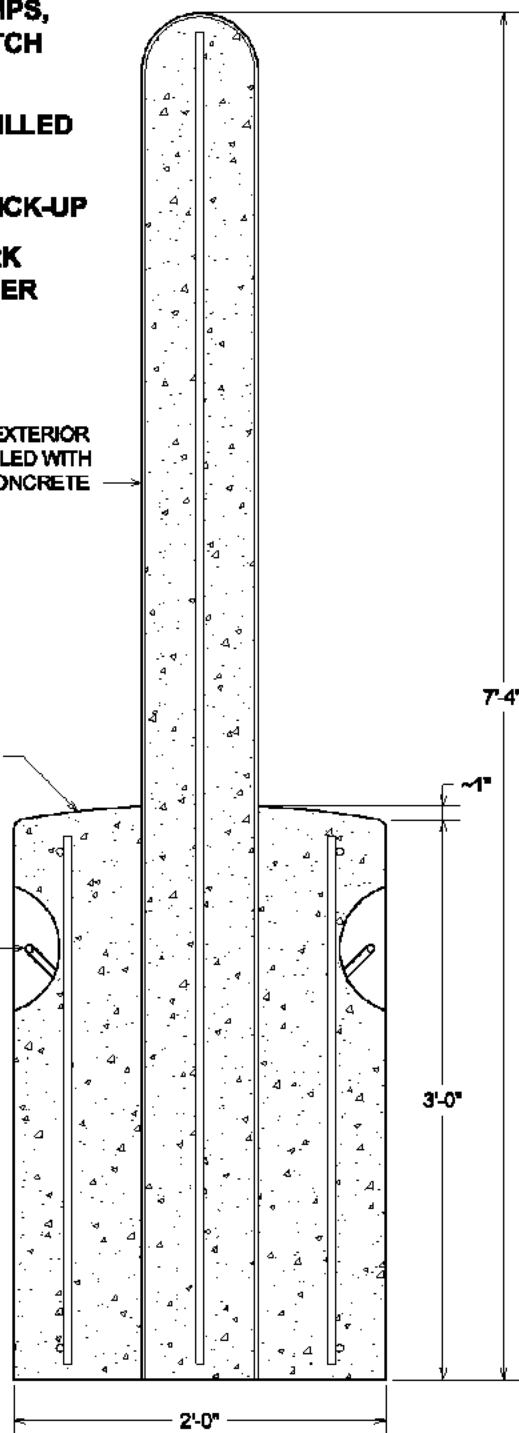


PLAN VIEW

POLYETHYLENE EXTERIOR SHELL FILLED WITH REINFORCED CONCRETE

REINFORCED PRECAST CONCRETE BASE

BOLLARD LIFTS WITH 2 RECESSED LIFT BARS



SECTION VIEW

DRAWING NOT TO SCALE

WEIGHT:

- BOLLARD WEIGHS APPX. 1,700 LBS.

NOTES:

- CONCRETE: 4000 P.S.I. MINIMUM
- REINFORCING:
 - 7½" BOLLARD: (1) #4 VERTICAL REBAR
 - 24" BASE: (2) #4 STIRRUPS, (4) #4 VERTICAL REBARS

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

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BOLLARD WITH BASE DWG
 DATE CREATED: 12/09
 UPDATED: -----



PRECAST CONCRETE CATCH BASIN

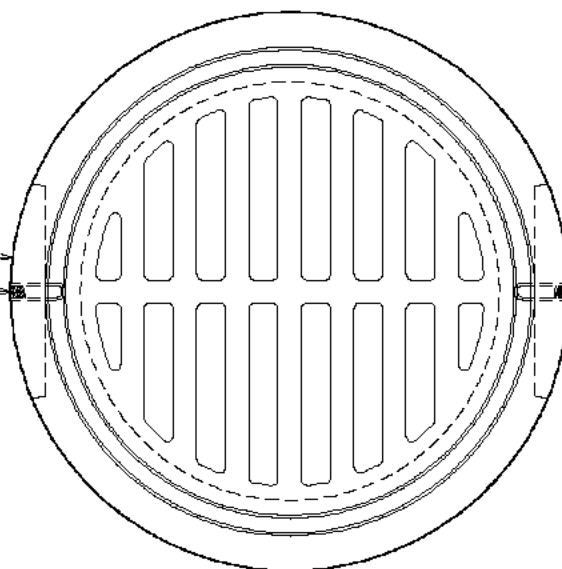
18" INSIDE DIAMETER
VCP ITEM #1515 ROUND CATCH BASIN

MANUFACTURED TO ASTM C-478

1½" DEEP RECESSED KNOCKOUTS 9"
DIAMETER (MINIMUM) AT FLOOR LEVEL,
TYP. OF 2

½" STANDARD THREAD LIFTING
INSERTS CAST IN, TYP. OF 2

EXCAVATION TO BE PROPERLY
PREPARED WITH SUITABLE MATERIAL
TO PLACE STRUCTURE ONTO

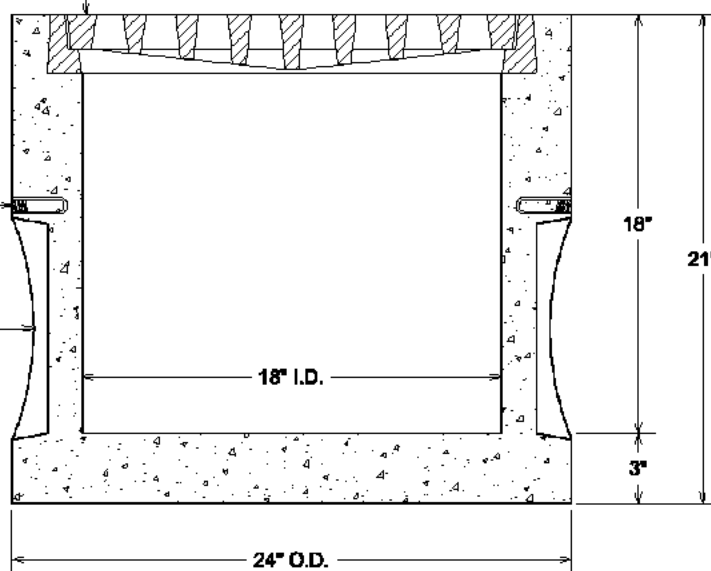


PLAN VIEW

OUR STANDARD CAST IRON RING & GRATE CAST IN
(OPEN FLOW AREA OF GRATE; 162 SQ. INCHES)

½" STANDARD THREAD LIFTING
INSERTS CAST IN, TYP. OF 2

1½" DEEP RECESSED KNOCKOUTS 9"
DIAMETER (MINIMUM) AT FLOOR LEVEL,
TYP. OF 2



SECTION VIEW

WEIGHTS:

- COMPLETE CATCH BASIN WEIGHS APPX. 420 LBS.
- GRATE WEIGHS APPX. 60 LBS.

NOTES:

- CONCRETE: 4000 P.S.I. MINIMUM
- REINFORCING: GRADE 60 MINIMUM
- DESIGNED FOR AASHTO HS-20-44 LOADINGS WHEN PLACED ON MATERIAL CAPABLE OF SUPPORTING THE LOADINGS

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

DRAWING NOT TO SCALE

CATCH BASIN-18" DIAMETER/20" DIA.
DATE CREATED: 12/06
UPDATED: 12/08

**vaughn
concrete products, inc.**

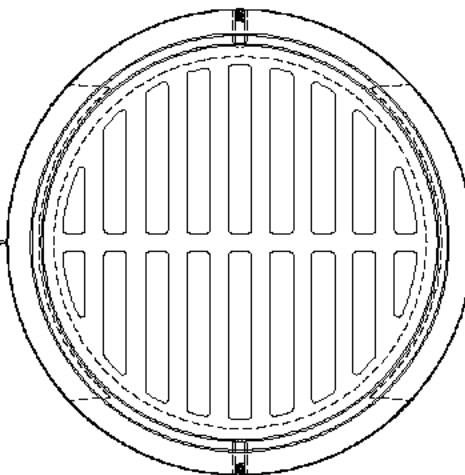
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PRECAST CONCRETE CATCH BASIN

24" INSIDE DIAMETER
VCP ITEM #2020 ROUND CATCH BASIN

MANUFACTURED TO ASTM C-478

1½" DEEP RECESSED
KNOCKOUTS 20" DIAMETER AT
FLOOR LEVEL, TYP. OF 2

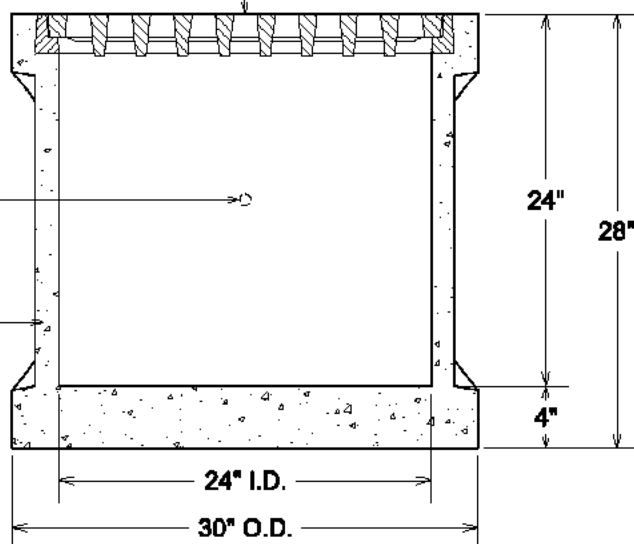


PLAN VIEW

OUR STANDARD CAST IRON RING & GRATE CAST IN
(OPEN FLOW AREA OF GRATE; 180 SQ. INCHES)

¾" STANDARD THREAD LIFTING INSERTS
CAST IN, TYP. OF 2

1½" DEEP RECESSED
KNOCKOUTS 20" DIAMETER AT
FLOOR LEVEL, TYP. OF 2



SECTION VIEW

WEIGHTS:

- COMPLETE CATCH BASIN WEIGHS APPX. 850 LBS.
- GRATE WEIGHS APPX. 120 LBS.

NOTES:

- CONCRETE: 4000 P.S.I. MINIMUM
- REINFORCING: GRADE 60 MINIMUM
- SUITABLE FOR OCCASIONAL AASHTO HS-20-44 LOADINGS
WHEN PLACED ON MATERIAL CAPABLE OF SUPPORTING
THE LOADINGS

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

EXCAVATION TO BE PROPERLY
PREPARED WITH SUITABLE MATERIAL
TO PLACE STRUCTURE ONTO

DRAWING NOT TO SCALE

CATCH BASIN- 24" DIAMETER.DWG
DATE CREATED: 12/ 08
UPDATED: -----

**vaughn
concrete products, inc.**

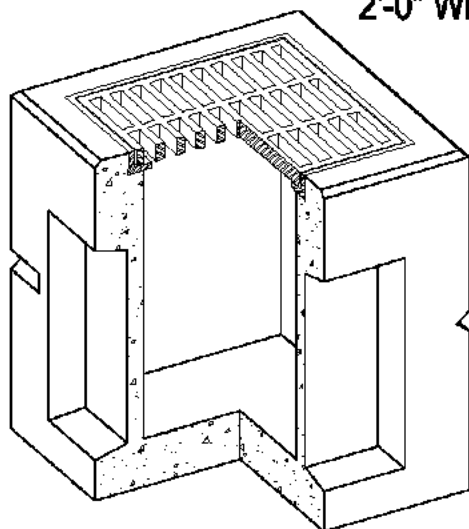
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PRECAST CONCRETE CATCH BASIN

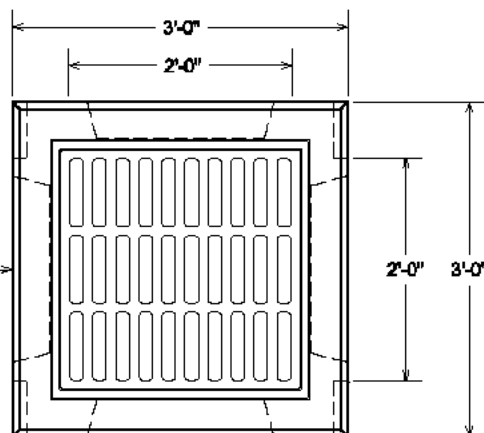
2'-0" WIDE X 2'-0" LONG X 2'-6" HIGH INSIDE DIMENSIONS

VCP ITEM #202025 CATCH BASIN

WITH CAST IRON FRAME & GRATE



KNOCKOUTS 18" WIDE X 24" TALL X 4" DEEP,
CENTERED IN WIDTH OF EACH WALL AT FLOOR
LEVEL, TYP. OF 4



PLAN VIEW

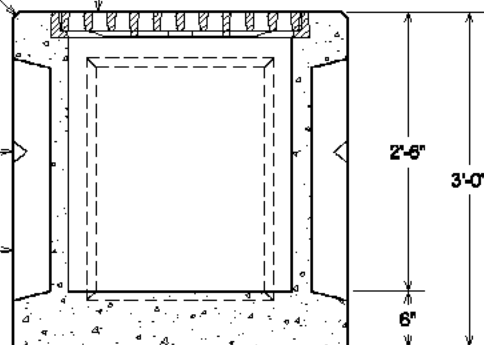
OUR STANDARD CAST IRON FRAME & GRATE CAST IN;
GRATE WEIGHS APPX. 175 LBS.
(ADA COMPLIANT GRATE ALSO AVAILABLE AS A
SPECIAL ORDER ITEM, IF REQUIRED)

ENTIRE TOP PERIMETER EDGE IS CHAMFERED

PROVIDED WITH LIFT NOTCHES FOR
HANDLING, TYP. OF 4

KNOCKOUTS 18" WIDE X 24" TALL X 4" DEEP,
CENTERED IN WIDTH OF EACH WALL AT FLOOR
LEVEL, TYP. OF 4

THE OPEN FLOW AREA OF OUR
STANDARD GRATE IS 340 SQUARE
INCHES OR 2.36 SQUARE FEET



SECTION VIEW

NOTES:

- CONCRETE: 4000 P.S.I. MINIMUM
- REINFORCING: GRADE 60 MINIMUM
- DESIGNED FOR AASHTO HS-20-44 LOADINGS

WEIGHT:

- CATCH BASIN WEIGHS APPROXIMATELY 2,200 LBS.

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

EXCAVATION TO BE PROPERLY
PREPARED WITH SUITABLE MATERIAL TO
PLACE STRUCTURE ONTO

DRAWING NOT TO SCALE

2X2X2-6 CATCH BASIN/DWG
DATE CREATED: 12/06
UPDATED: 12/09

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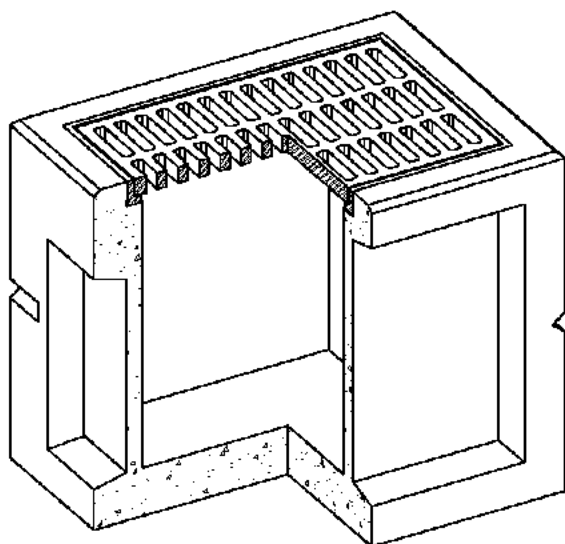
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PRECAST CONCRETE CATCH BASIN

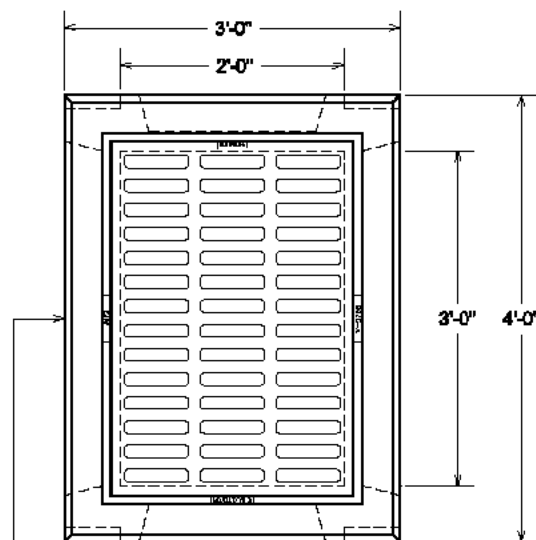
2'-0" WIDE X 3'-0" LONG X 3'-0" HIGH INSIDE DIMENSIONS

VCP ITEM #203030 CATCH BASIN

WITH CAST IRON FRAME & GRATE



KNOCKOUTS 36" WIDE X 30" TALL X 4" DEEP,
CENTERED IN WIDTH OF EACH SIDE WALL AT
FLOOR LEVEL, TYP. OF 2



PLAN VIEW

OUR STANDARD CAST IRON FRAME & GRATE CAST IN;
GRATE WEIGHS APPX. 300 LBS.

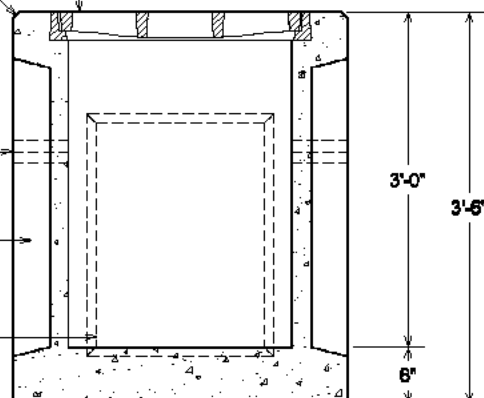
ENTIRE TOP PERIMETER EDGE IS CHAMFERED

THE OPEN FLOW AREA OF OUR
STANDARD GRATE IS 397 SQUARE
INCHES OR 2.76 SQUARE FEET

PROVIDED WITH LIFT NOTCHES FOR
HANDLING, TYP. OF 4

KNOCKOUTS 36" WIDE X 30" TALL X 4" DEEP,
CENTERED IN WIDTH OF EACH SIDE WALL AT
FLOOR LEVEL, TYP. OF 2

KNOCKOUTS 18" WIDE X 24" TALL X 4" DEEP,
CENTERED IN WIDTH OF EACH END WALL AT
FLOOR LEVEL, TYP. OF 2



SECTION VIEW

NOTES:

- CONCRETE: 4000 P.S.I. MINIMUM
- REINFORCING: GRADE 60 MINIMUM
- DESIGNED FOR AASHTO HS-20-44 LOADINGS

WEIGHT:

- CATCH BASIN WEIGHS APPROXIMATELY 3,000 LBS.

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

EXCAVATION TO BE PROPERLY
PREPARED WITH SUITABLE MATERIAL TO
PLACE STRUCTURE ONTO

DRAWING NOT TO SCALE

203030 CATCH BASIN.DWG
DATE CREATED: 12/09
UPDATED: -----

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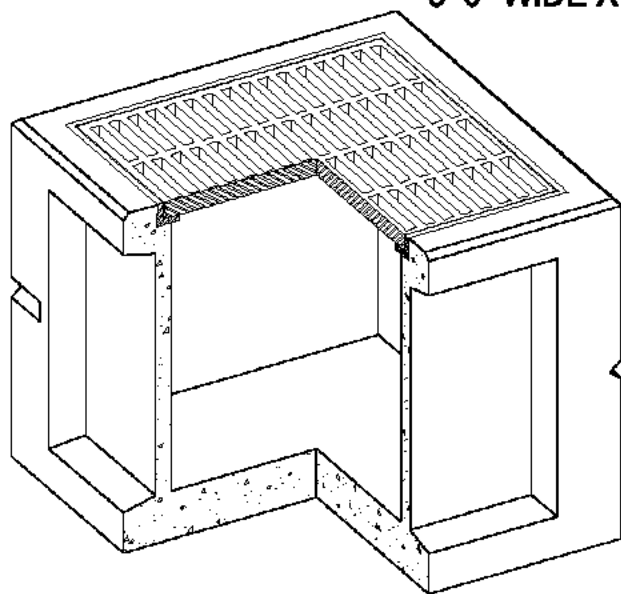
www.vaughnconcreteproducts.com

PRECAST CONCRETE CATCH BASIN

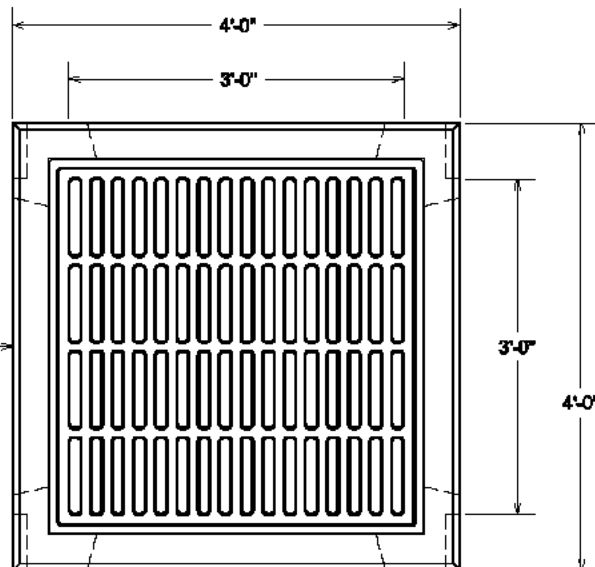
3'-0" WIDE X 3'-0" LONG X 3'-0" HIGH INSIDE DIMENSIONS

VCP ITEM #303030 CATCH BASIN

WITH CAST IRON FRAME & GRATE



KNOCKOUTS 30" WIDE X 30" TALL X 4" DEEP,
CENTERED IN WIDTH OF EACH WALL AT FLOOR
LEVEL, TYP. OF 4



PLAN VIEW

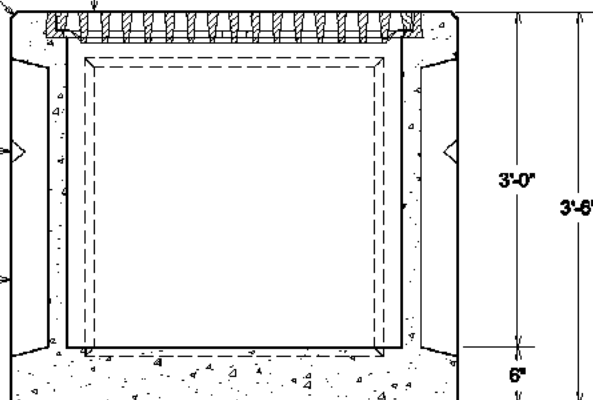
OUR STANDARD CAST IRON FRAME & GRATE CAST IN;
GRATE WEIGHS APPX. 450 LBS.

ENTIRE TOP PERIMETER EDGE IS CHAMFERED

PROVIDED WITH LIFT NOTCHES FOR
HANDLING, TYP. OF 4

KNOCKOUTS 30" WIDE X 30" TALL X 4" DEEP,
CENTERED IN WIDTH OF EACH WALL AT FLOOR
LEVEL, TYP. OF 4

THE OPEN FLOW AREA OF OUR
STANDARD GRATE IS 750 SQUARE
INCHES OR 5.21 SQUARE FEET



SECTION VIEW

NOTES:

- CONCRETE: 4000 P.S.I. MINIMUM
- REINFORCING: GRADE 60 MINIMUM
- DESIGNED FOR AASHTO HS-20-44 LOADINGS

WEIGHT:

- CATCH BASIN WEIGHS APPROXIMATELY 3,600 LBS.

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

EXCAVATION TO BE PROPERLY
PREPARED WITH SUITABLE MATERIAL TO
PLACE STRUCTURE ONTO

DRAWING NOT TO SCALE

vaughn concrete products, inc.

3'X3'X3' CATCH BASIN DWG
DATE CREATED: 12/06
UPDATED: 12/09

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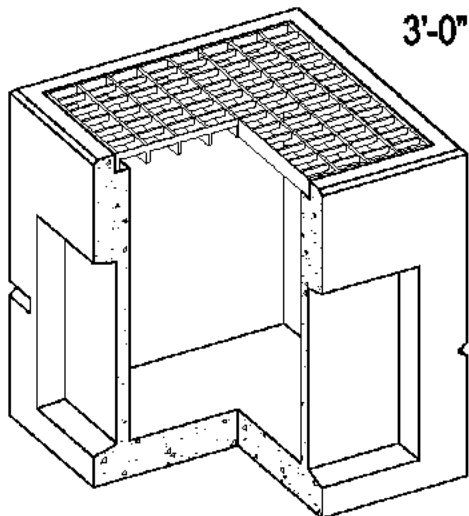
www.vaughnconcreteproducts.com

PRECAST CONCRETE CATCH BASIN

3'-0" WIDE X 3'-0" LONG X 4'-0" HIGH INSIDE DIMENSIONS

VCP ITEM #303040 CATCH BASIN

WITH HOT DIPPED GALVANIZED STEEL GRATE



KNOCKOUTS 30" WIDE X 30" TALL X 4" DEEP,
CENTERED IN WIDTH OF EACH WALL AT FLOOR
LEVEL, TYP. OF 4

3/4" DEEP NOTCH CAST IN FOR
GALVANIZED STEEL GRATE TO SET INTO;
GRATE HAS AN OPEN FLOW AREA OF
APPX. 1,200 SQ. INCHES;
GRATE WEIGHS APPX. 270 LBS.

ENTIRE TOP PERIMETER EDGE IS CHAMFERED

PROVIDED WITH LIFT NOTCHES FOR
HANDLING, TYP. OF 4

KNOCKOUTS 30" WIDE X 30" TALL X 4" DEEP,
CENTERED IN WIDTH OF EACH WALL AT FLOOR
LEVEL, TYP. OF 4

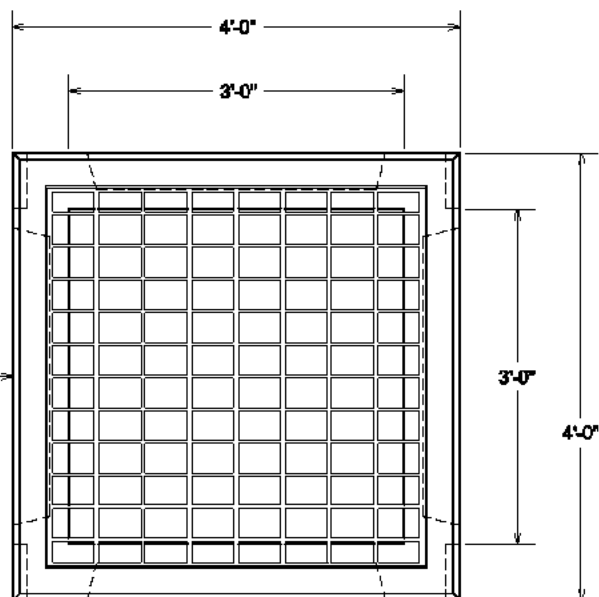
NOTES:

- CONCRETE: 4000 P.S.I. MINIMUM
- REINFORCING: GRADE 60 MINIMUM
- DESIGNED FOR AASHTO HS-20-44 LOADINGS

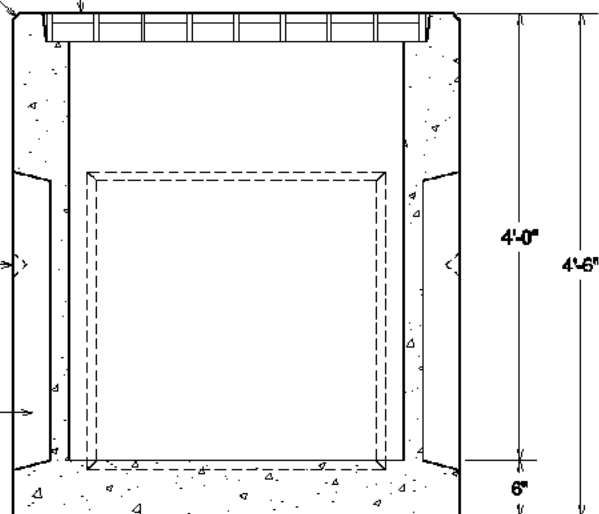
WEIGHT:

- CATCH BASIN WITH GRATE WEIGHS APPX. 4,500 LBS.

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY



PLAN VIEW



SECTION VIEW

EXCAVATION TO BE PROPERLY
PREPARED WITH SUITABLE MATERIAL TO
PLACE STRUCTURE ONTO

DRAWING NOT TO SCALE

3'X3'X4' CATCH BASIN DWG
DATE CREATED: 12/09
UPDATED: -----

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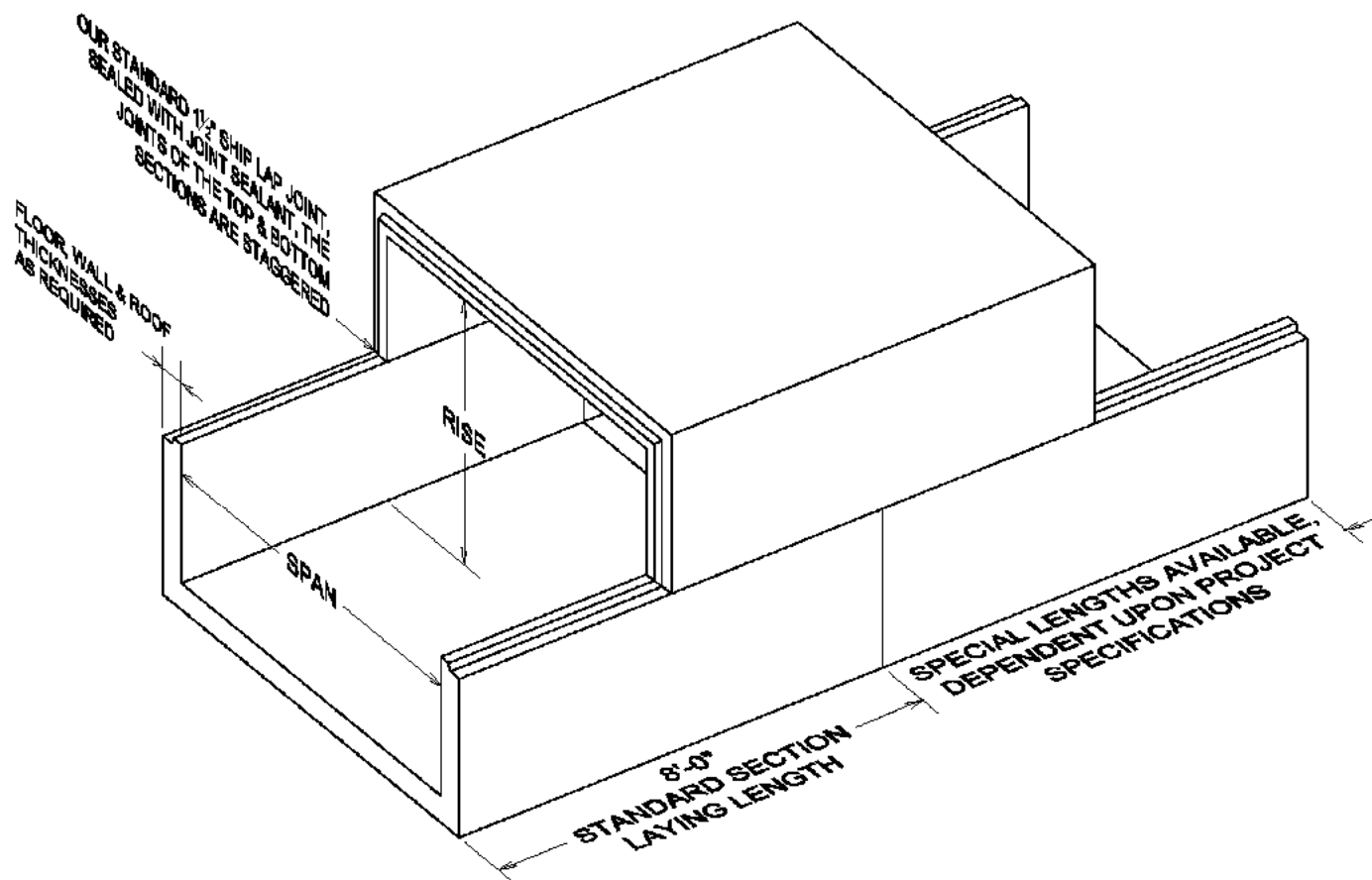
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PRECAST CONCRETE BOX CULVERT

OUR STANDARD TWO-PIECE SECTIONAL UNIT

BOX CULVERT AVAILABLE IN THE FOLLOWING SIZE RANGE

MINIMUM INSIDE RISE: 6"	MAXIMUM INSIDE RISE: 18"
MINIMUM INSIDE SPAN: 6"	MAXIMUM INSIDE SPAN: 34"



DEPENDING ON OUR FORM AVAILABILITY AT THE TIME OF ORDER, BOX CULVERT MAY BE SUPPLIED IN THE FOLLOWING CONFIGURATIONS

- ~ (2) 3-SIDED U-SHAPED BOXES AS SHOWN ABOVE ~
- ~ 3-SIDED U-SHAPED BOX WITH A LID ~
- PRECAST BASE WITH A 3-SIDED UPSIDE DOWN U-SHAPED BOX -

NOTES:

- CONCRETE : 5000 P.S.I. MINIMUM
- REINFORCING : A-815, A-706 (SATISFIES ALL GRADE 60 REQUIREMENTS)
- CUSTOMER TO SPECIFY LOADINGS
- REFERENCE SPECIFICATIONS:
- APPLICABLE ASTM STANDARDS
- AASHTO STANDARD SPECIFICATION FOR HIGHWAY BRIDGES

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

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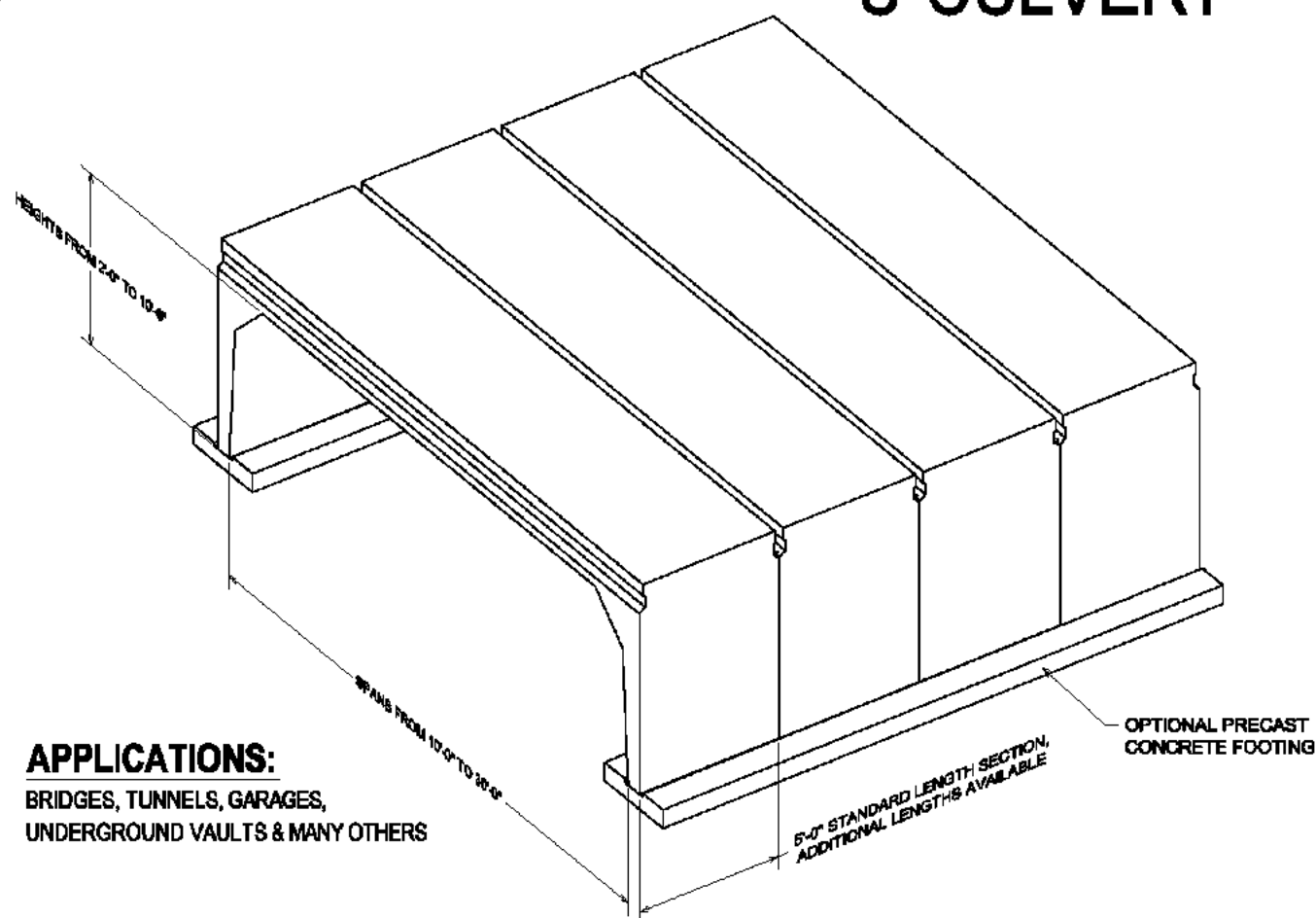
DRAWING NOT TO SCALE

BOX CULVERT.DWG
DATE CREATED: 12/06
UPDATED: 12/09

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PRECAST CONCRETE U-CULVERT



APPLICATIONS:

BRIDGES, TUNNELS, GARAGES,
UNDERGROUND VAULTS & MANY OTHERS

AVAILABLE OPTIONS:

- PRECAST FOOTINGS (SHOWN ABOVE)-
- PRECAST WING WALLS-
- BRIDGE PARAPETS-
- ATTACHMENTS FOR GUARDRAILS-
- HS-20-44 HWY TRAFFIC LOADING-
- HS-25 HWY TRAFFIC LOADING-
- ADDITIONAL LOAD CAPABILITIES-
- CONCRETE FLOOR & MANY OTHERS-

ADVANTAGES:

- WELD PLATES USED FOR CONNECTING SECTIONS-
- EASY-QUICK INSTALLATION-
- SHORT-TERM CONSTRUCTION TIME-
- INCREASE CHANNEL CAPACITY WITH MULTIPLE BAYS-
- HIGH STRENGTH CONCRETE-
- DURABLE LONG LIFE-
- CORROSION RESISTANT (WON'T RUST LIKE A STEEL BRIDGE)-
- MANUFACTURED TO MEET PARTICULAR PROJECT SPECIFICATIONS-
- HIGH QUALITY PRODUCT THAT IS PRODUCED IN A CONTROLLED ENVIRONMENT PLANT-

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

vaughn
concrete products, inc.

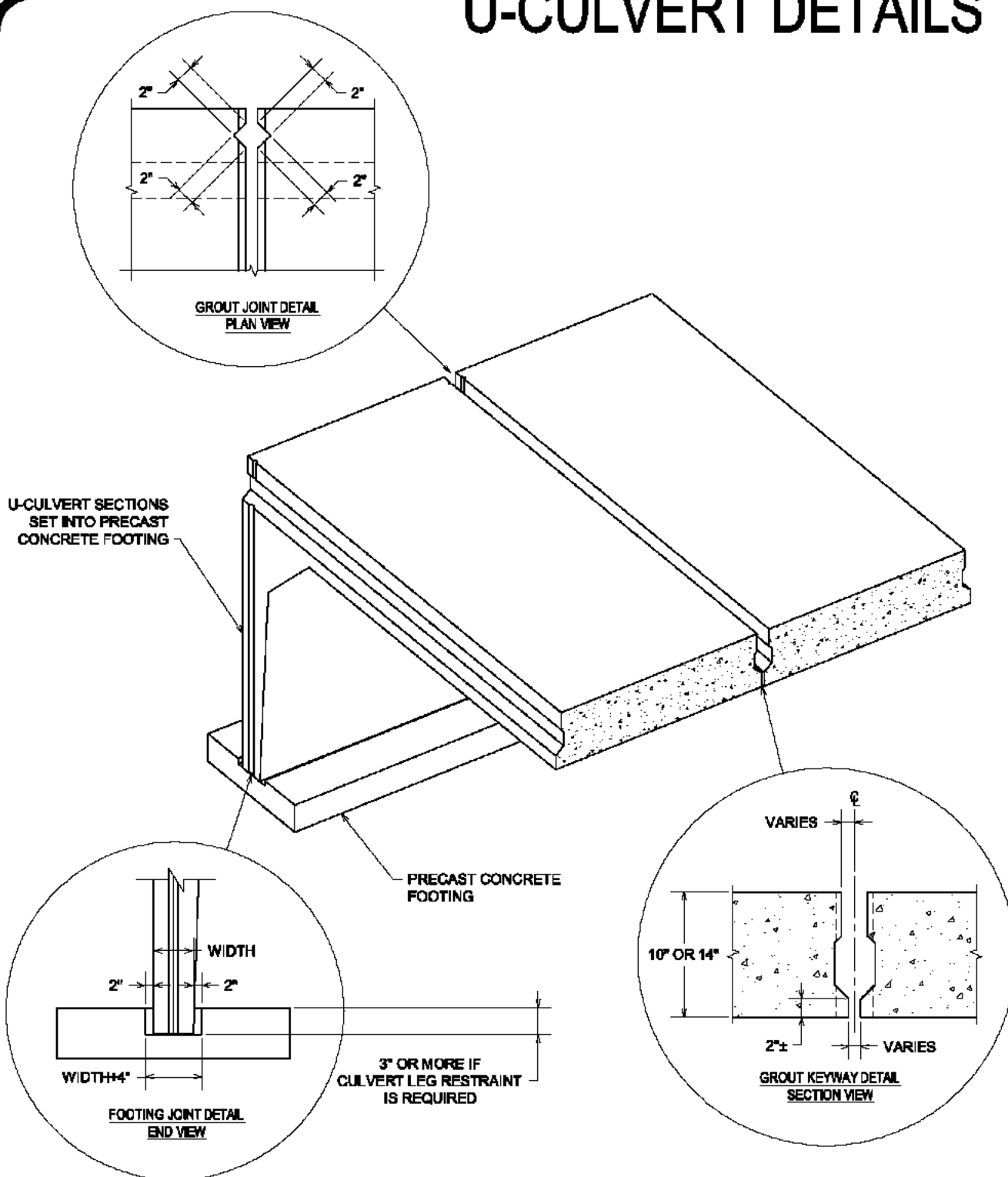
DRAWING NOT TO SCALE

U-CULVERT INFO.DWG
DATE CREATED: 11/ 08
UPDATED: -----

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PRECAST CONCRETE U-CULVERT DETAILS



ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

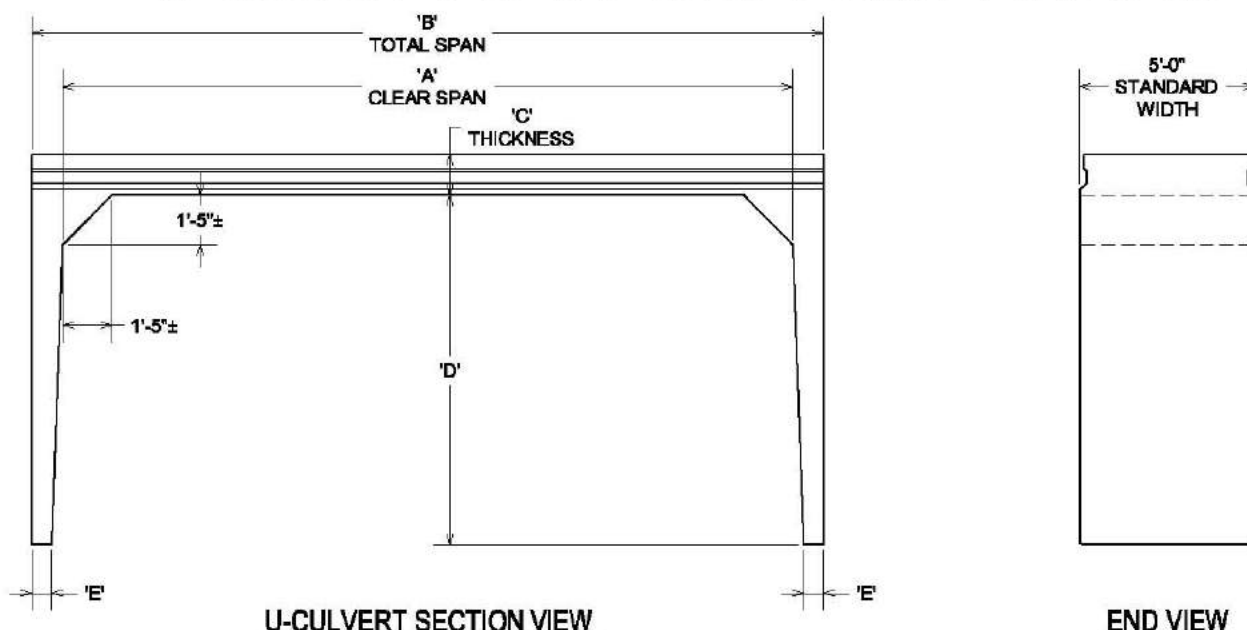
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DRAWING NOT TO SCALE

U-CULVERT DETAILS.DWG
DATE CREATED: 11/08
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PRECAST CONCRETE U-CULVERT SIZING PROPERTIES



6'-0" STANDARD WIDTH U-CULVERT PROPERTIES																		
A	B	C	D = 3FT		D = 4FT		D = 5FT		D = 6FT		D = 7FT		D = 8FT		D = 9FT		D = 10FT	
SPAN (FEET)	LENGTH (FEET)	THICKNESS (INCHES)	WATERWAY (SQ. FT.)	WEIGHT (TONS)	WATERWAY (SQ. FT.)	WEIGHT (TONS)	WATERWAY (SQ. FT.)	WEIGHT (TONS)	WATERWAY (SQ. FT.)	WEIGHT (TONS)	WATERWAY (SQ. FT.)	WEIGHT (TONS)	WATERWAY (SQ. FT.)	WEIGHT (TONS)	WATERWAY (SQ. FT.)	WEIGHT (TONS)	WATERWAY (SQ. FT.)	WEIGHT (TONS)
12	13.67	10.00	34	6.9	46	7.5	58	8.1	70	8.6	83	9.2	95	9.7	107	10.2	119	10.7
13	14.67	10.00	37	7.2	50	7.8	63	8.4	76	8.9	90	9.5	103	10	116	10.6	129	11.1
14	15.67	10.00	40	7.5	54	8.1	68	8.7	82	9.3	97	9.8	111	10.3	125	10.9	139	11.4
15	16.67	10.00	43	7.8	58	8.4	73	9	88	9.6	104	10.1	119	10.7	134	11.2	149	11.7
16	17.67	10.00	46	8.1	62	8.7	78	9.3	94	9.9	111	10.4	127	11	143	11.5	159	12
17	18.67	10.00	49	8.5	66	9	83	9.6	100	10.2	118	10.7	135	11.3	152	11.8	169	12.3
18	19.67	10.00	52	8.8	70	9.4	88	9.9	106	10.5	125	11.1	143	11.6	161	12.1	179	12.6
19	20.67	10.00	55	9.1	74	9.7	93	10.3	112	10.8	132	11.4	151	11.9	170	12.4	189	12.9
20	21.67	14.00	57	9.4	78	10	98	10.6	118	11.1	139	11.7	159	12.2	179	12.7	199	13.2
21	22.67	14.00	61	12.5	82	13.1	103	13.7	124	14.3	146	14.8	187	15.4	188	15.9	209	16.4
22	23.67	14.00	64	13	86	13.6	108	14.1	130	14.7	153	15.3	175	15.8	197	16.3	219	16.8
23	24.67	14.00	67	13.4	90	14	113	14.6	136	15.2	160	15.7	183	16.2	206	16.8	229	17.3
24	25.67	14.00	70	13.8	94	14.4	118	15	142	15.6	167	16.1	191	16.7	215	17.2	239	17.7
25	26.67	14.00	73	14.3	98	14.9	123	15.5	148	16	174	16.6	199	17.1	224	17.6	249	18.1
26	27.67	14.00	76	14.7	102	15.3	128	15.9	154	16.5	181	17	207	17.6	233	18.1	259	18.6
27	28.67	14.00	79	15.2	106	15.8	133	16.3	160	17	188	17.5	25	18	242	18.5	269	19
28	29.67	14.00	82	15.6	110	16.2	138	16.8	166	17.3	195	17.9	223	18.4	251	18.9	279	19.5
29	30.67	14.00	85	16	114	16.6	143	17.2	172	17	202	18.3	231	18.9	260	19.4	289	19.9
30	31.67	14.00	88	16.5	118	17.1	148	17.6	178	18.2	209	18.8	239	19.3	269	19.8	299	20.3
			E		E		E		E		E		E		E		E	
			LENGTH (INCHES)		LENGTH (INCHES)		LENGTH (INCHES)		LENGTH (INCHES)		LENGTH (INCHES)		LENGTH (INCHES)		LENGTH (INCHES)		LENGTH (INCHES)	
			10		9.825		9.125		8.75		8.375		7.875		7.375		6.875	

CALL FOR ADDITIONAL SPAN INFORMATION

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

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DRAWING NOT TO SCALE

U-CULVERT SIZES.DWG
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 10021 Amarillo Blvd E. Amarillo, Texas 79108-7542 (806) 374-3747 Fax (806) 335-3717
 Toll Free Phone (877) 827-8255 Toll Free Fax (877) 827-7363
www.vaughnconcreteproducts.com

SAMPLE SPECIFICATION FOR PRECAST CONCRETE U-CULVERT **(PRECAST UNITS ALSO CALLED 3-SIDED BOX CULVERT)**

Precast Concrete U-Culverts are to be manufactured by a firm, which has a minimum of 10 years successful experience in fabrication of Precast Concrete units such as those required on this project. Precast Concrete U-Culverts to be manufactured by Vaughn Concrete Products, Inc., 1-877-827-8255, or a pre-approved comparable manufacturer. For pre-approval all other manufacturers must present complete shop drawings and submittals for verification of compliance with design criteria along with a list of several completed projects using similar type products. The list of completed projects shall include project name, location, type and size of precast structure provided and a contact name with a phone number of an individual familiar with the project. This must be provided to the design engineer at least 21 days prior to project bid date. A full five days must be given to the design engineer for submittal review. Supplier approval must be obtained 14 days prior to bid opening. No late approvals will be allowed. A plant inspection will (may) also be required for production facility inspection, similar product inspection and to review record keeping for material certification. The submittal information must be supplied in accordance with requirements of the project specifications and must address compliance with the items listed below.

Precast Concrete U-Culverts shall be designed and manufactured in accordance with the requirements of ASTM and AASHTO Standards latest revision as required. The precast manufacturer shall submit shop drawings, structural design calculations performed by a registered engineer and material certifications as follows to verify all products used in manufacturing meet the design requirements:

REINFORCING BARS	ASTM A-615 or A-706
AGGREGATES	ASTM C-33
CEMENT	ASTM C-150
JOINT SEALANT (IF USED)	ASTM C-990

Production of precast units shall not begin until the design engineer and/or purchaser reviews and approves all submittals. Compressive strength test results for the precast units must be supplied prior to their delivery to verify that the strength requirements were met. The compressive strength tests must be done in accordance with ASTM C-39.

Designer is to specify:

Interior Height & Span
Any Special Configurations, Degree of Skew, Piping Sizes and Locations, etc.
Loading Requirements: Light, Medium or Heavy Traffic
Any Other Requirements

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PRECAST CONCRETE U-CULVERT **3-SIDED BOX CULVERT BRIDGE SECTIONS**

PART 1: GENERAL

1-1 DESCRIPTION:

- A. The work of this section consists of manufacturing and delivering Precast Reinforced Concrete 3-Sided Box Culvert Sections for Drainage Structures of the shape and dimensions called for on the drawings in accordance with these specifications.

1-2 QUALITY ASSURANCE:

A. Reference Standards

1. American Society for Testing and Materials (ASTM), American National Standards (ANSI), American Association of State Highway and Transportation Officials (AASHTO), AWS D12.1 for Reinforcing Steel, Inserts and Connections and ACI 318 for Reinforced Concrete.

B. Design Criteria

1. Precast Concrete Box Sections shall be designed for Earth Deadload and Interstate Live Load Conditions, as indicated on the drawings (Normally AASHTO HS-20-44 loadings).
2. Precast Footings may be provided. The owner's representative must supply the manufacturer with all soils and other information at least 7 days prior to bid opening.

1-3 SUBMITTALS:

- A. Submittals with shop drawings from manufacturer, prepared by a registered engineer, showing the Precast Reinforced Precast Concrete 3-Sided Box Culvert Sections meet the requirements for this specification.

Submittals are to include:

REINFORCING BARS	ASTM A-615 or A-706
AGGREGATES	ASTM C-33
CEMENT	ASTM C-150
JOINT SEALANT (if used)	ASTM C-990

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PART 2: MATERIALS

2-1 PRECAST BOX BRIDGE MATERIALS:

- A. Minimum Concrete Compressive Strengths as indicated by concrete compression cylinders shall be 4,500 psi minimum at 28 days unless otherwise indicated on the design. A minimum of four (4) concrete test cylinders shall be taken for each 3-Sided Box Bridge Section manufactured.
- B. Reinforcement shall be by deformed steel reinforcing bars in accordance with ASTM A-615, (latest revision), grade 60 minimum, non-coated.

2-2 PRECAST BOX BRIDGE MANUFACTURE:

- A. Cement shall conform to the requirements of ASTM C-150, (latest revision).
- B. The concrete mix shall be as designed by the precast manufacturer and utilize cement, clean aggregates and water. Water reducers or plasticizers may be used at the manufacturers option and with concurrence of the engineer to produce a well-blended concrete mix, which will meet or exceed the design requirement.
- C. Concrete compressive tests shall be performed at day one (1), day seven (7), and day twenty-eight (28) intervals. If a particular section fails to reach the design compressive strength, the engineer may reject it, only if adequate non-destructive testing an/or correlation cannot be provided by the manufacturer to assure its proper 28-day compressive strength.
- D. Forms for the manufacture of 3-Sided Box Bridges shall be a steel construction and designed expressly for the casting of 3-Sided Box Culvert Bridge Sections. Wood or "gang" forms will not be allowed.
- E. Four (4) lifting points are to be provided in the precast unit for handling by the installation contractor. The lifting inserts shall be per the precast manufacturer.
- F. Precast Concrete 3-Sided Box Culvert Bridge Sections shall be manufactured by Vaughn Concrete Products, Inc. (1-877-827-8255) or approved equal. The manufacturer shall deliver the Precast Concrete 3-Sided Box Culvert Bridge Sections to the project site. The manufacturer is to supply all lifting devices for attaching to the precast units. The manufacturer is to have trained personnel on site for a minimum of 4 hours to assist in coordination of installation.



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PART 3: EXECUTION

3-1 INSTALLATION:

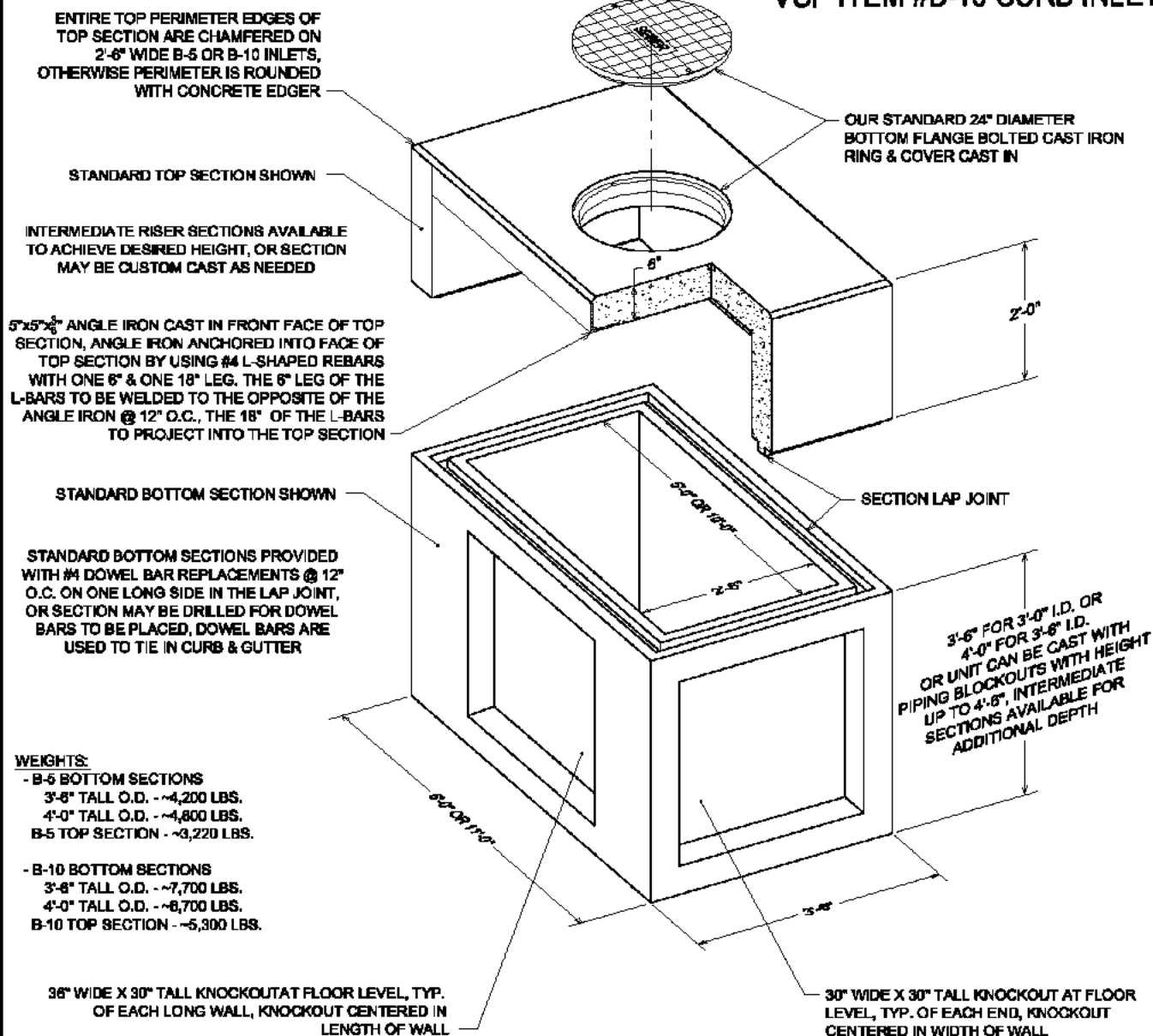
- A. Structural excavation and sub-grade preparation shall be completed as required.
- B. Install cast-in-place concrete foundations and floor slab in accordance with the drawings and specifications. Care should be taken in the forming and finishing of the foundation keyways to allow placement of precast sections with the tolerance specified below, or if precast footings are used, the precast footing are to be placed, aligned and welded together as required. Extreme care must be taken to verify the footing keyways are properly located and aligned.
- C. Placement of the Precast Concrete 3-Sided Box Culvert Bridge Sections may not commence until the foundation concrete has developed in-place strength as required. The contractor shall coordinate delivery and placement of precast units at the site. For jobsite unloading, the contractor, only by means of the lifting devices provided by the manufacturer, shall accomplish handling and installation of the 3-Sided Box Culvert Bridge Section. Improper handling or handling by any other means could cause damage to the units. The 3-Sided Box Culvert Bridge Sections shall be placed such that the maximum joint space between adjacent sections is $\frac{3}{4}$ inch.
- D. The installation contractor shall equip the operations with suitable equipment of a capacity adequate to handle and install the 3-Sided Box Culvert Bridge Sections for this project. All grout keys at the footing, keyways in the leg sections and keyways in the top slab, will be filled with a non-shrink grout. This material shall be prepared on the jobsite in accordance with the manufacturers recommendations and shall be of a suitable consistency to perform as it is intended. A compressible polyethylene backer rod (supplied by the installer) shall be placed along the inside face of the ceiling and wall joints prior to starting the grouting operations.
- E. Backfill around the Footings and the 3-Sided Box Culvert Bridge Sections shall be performed carefully as not to displace the precast units or exceed the design capacity of the precast units.

PRECAST CONCRETE CURB INLET

2'-6" WIDE X 5'-0" OR 10'-0" LONG INSIDE DIMENSIONS

VCP ITEM #B-5 CURB INLET

VCP ITEM #B-10 CURB INLET



NOTES:

- CONCRETE: 5000 P.S.I. MINIMUM
- REINFORCING: GRADE 60 MINIMUM
- FLOOR, WALLS & ROOF ARE 8" THICK FOR BOTH BOX & TOP SECTION
- DESIGNED FOR AASHTO HS-20-44 LOADINGS

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

FOR LONGER CURB OPENING INSTALLATIONS, CUSTOM UNITS ARE AVAILABLE IN 16' & 20' INSIDE LENGTHS, OR USE MULTIPLE UNITS WITH FEEDER PIPES OR WINGS. SEE OTHER BROCHURES: CURB INLETS ALSO AVAILABLE AS SPECIAL ORDER ITEMS WITH AN INSIDE WIDTH OF 3'-6"

DRAWING NOT TO SCALE

2'-6"x5'-0" CURB INLET - BOXING
DATE CREATED: 11/05
UPDATED: -----

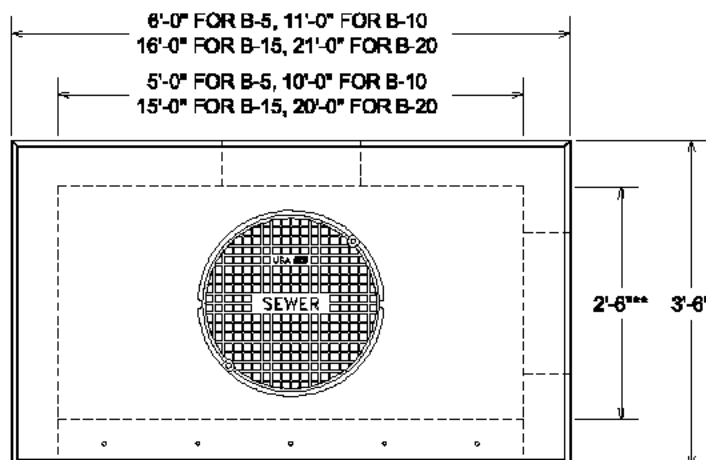
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PRECAST CONCRETE CURB INLET

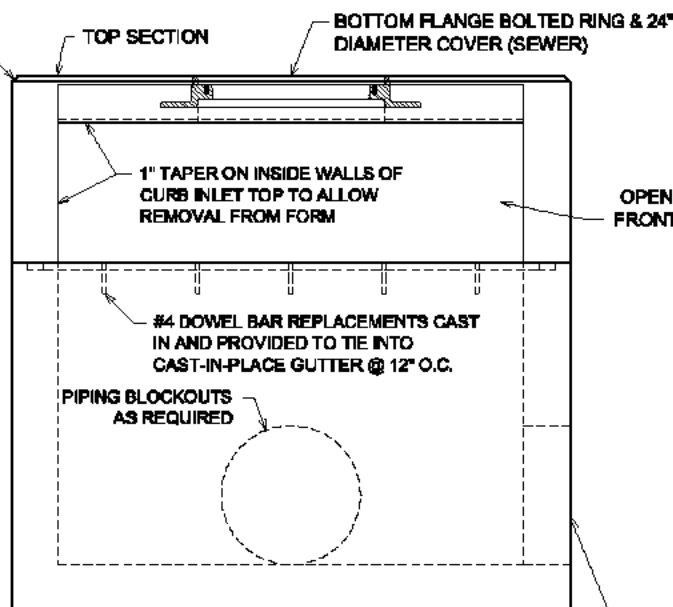
INLET BOX DETAIL

B-5, B-10, B-15 & B-20 INLETS PROVIDED WITH WINGS FOR B-25, ETC. WHERE SUITABLE (SEE DRAWING FOR WING DETAIL)
MULTIPLE INLETS MAY BE PROVIDED WITH A SHORT "FEEDER" PIPE FOR CONNECTING INLETS TO PROVIDE LARGER INLET CAPACITY AS REQUIRED.
**CURB INLETS ARE ALSO AVAILABLE AS SPECIAL ORDER ITEMS WITH AN INSIDE WIDTH OF 3'-6"



PLAN VIEW

ENTIRE TOP PERIMETER EDGES OF TOP SECTION ARE CHAMFERED ON 2'-6" WIDE B-5 & B-10 INLETS, OTHERWISE PERIMETER IS ROUNDED WITH CONCRETE EDGER



FRONT VIEW

NOTES:

- CONCRETE: 5,000 P.S.I. MINIMUM
- REINFORCING: GRADE 60 MINIMUM
- DESIGNED FOR AASHTO HS-20-44 LOADINGS
- ALL WALL THICKNESSES TO BE 6" (MINIMUM)
- *BOX DEPTH UP TO 4'-0" I.D.
- *INTERMEDIATE SECTION(S) AVAILABLE FOR INCREASED DEPTH

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

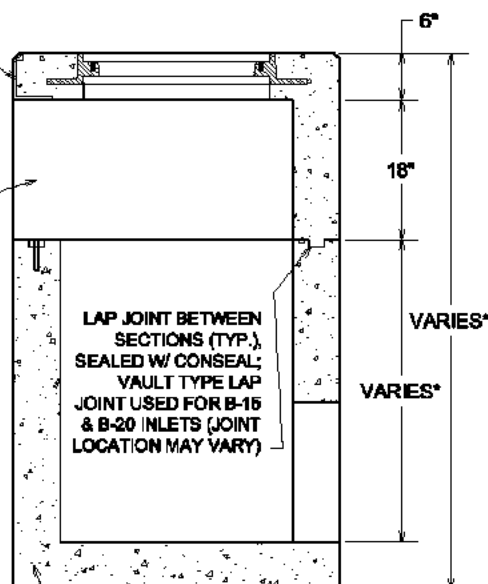
VCP ITEM #B-5 CURB INLET
VCP ITEM #B-10 CURB INLET
VCP ITEM #B-15 CURB INLET
VCP ITEM #B-20 CURB INLET

CONTRACTOR TO PLACE FLOW
INVERT AS REQUIRED

WEIGHTS:

B-5 TOP: ~3,220 LBS.
B-10 TOP: ~6,300 LBS.
B-15 & B-20 JOINT LOCATIONS VARY AS REQD.
BOX WEIGHTS VARY WITH SIZE & DEPTH

5"x5"x $\frac{3}{8}$ " ANGLE IRON CAST IN FRONT FACE OF TOP SECTION. ANGLE IRON ANCHORED INTO FACE OF TOP SECTION BY USING #4 L-SHAPED REBARS WITH ONE 6" & ONE 18" LEG. THE 6" LEG OF L BARS TO BE WELDED TO OPPOSITE LEGS OF ANGLE IRON @ 12" O.C., THE 18" LEG OF L BARS TO PROJECT INTO TOP SECTION



SECTION VIEW

BOTTOM SECTION

PIPING BLOCKOUTS FOR CONTRACTOR TO GROUT IN
FEEDER PIPES IF WINGS ARE REQUIRED

**Vaughn
concrete products, inc.**

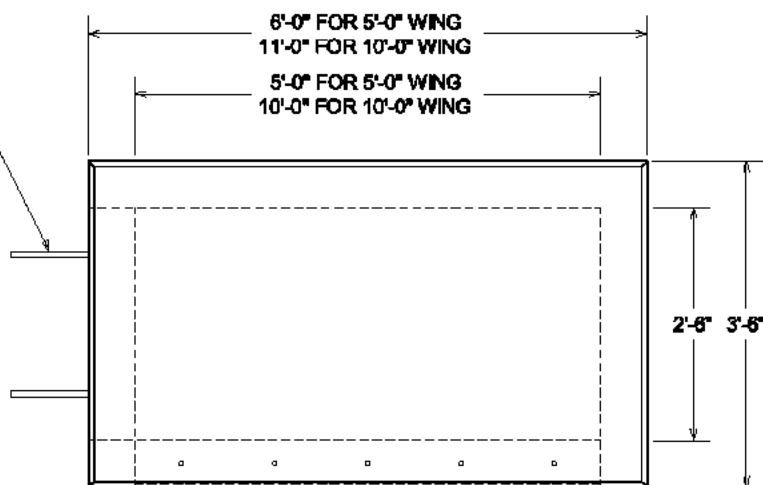
B-5 - B-20 CURB INLET.DWG
DATE CREATED: 11/05
UPDATED: _____

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PRECAST CONCRETE CURB INLET

WING DETAIL

(2) $\frac{3}{4}$ " NATURAL COARSE THREAD DOWELS PROVIDED IN EACH WING BOTTOM SECTION FOR VERTICAL ALIGNMENT & TO HELP PULL WING & BOX TOGETHER. DOWELS TO PROTRUDE 10" FROM WINGS BOTTOM SECTION TO FIT INTO THE 2 HOLES CAST IN THE INLET BOX, WING BOTTOM TO HAVE OPENING IN END WALL TO MATCH OPENING IN CURB INLET BOTTOM SECTION

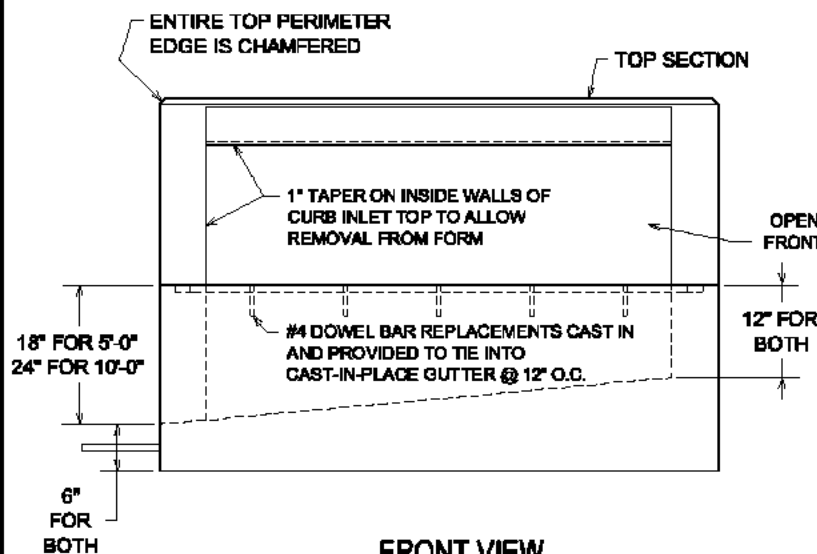


PLAN VIEW

VCP ITEM - B-5 CURB INLET WING
VCP ITEM - B-10 CURB INLET WING

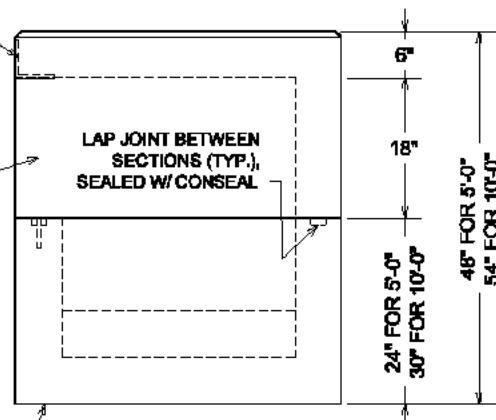
CONTRACTOR TO PLACE FLOW INVERT AS REQUIRED, CONTRACTOR TO FILL JOINT BETWEEN INLET & WING WITH NON-SHRINK GROUT

5"X5"X $\frac{3}{8}$ " ANGLE IRON CAST IN FRONT FACE OF TOP SECTION. ANGLE IRON ANCHORED INTO FACE OF TOP SECTION BY USING #4 L-SHAPED REBARS WITH ONE 6" & ONE 18" LEG. THE 6" LEG OF L BARS TO BE WELDED TO OPPOSITE LEGS OF ANGLE IRON @ 12" O.C., THE 18" LEG OF L BARS TO PROJECT INTO TOP SECTION



FRONT VIEW

BOTTOM SECTION



END VIEW

NOTES:

- CONCRETE: 5,000 P.S.I. MINIMUM
- REINFORCING: GRADE 80 MINIMUM
- DESIGNED FOR AASHTO HS-20-44 LOADINGS
- ALL WALL THICKNESSES TO BE 6" (MINIMUM)

WEIGHTS:

- 5' WING BOTTOM: ~5,400 LBS.
- 5' WING TOP: ~3,400 LBS.
- 10' WING BOTTOM: ~9,000 LBS.
- 10' WING TOP: ~5,400 LBS.

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

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B-5 & B-10 CURB INLET WING/DWG
DATE CREATED: 11/05
UPDATED: _____

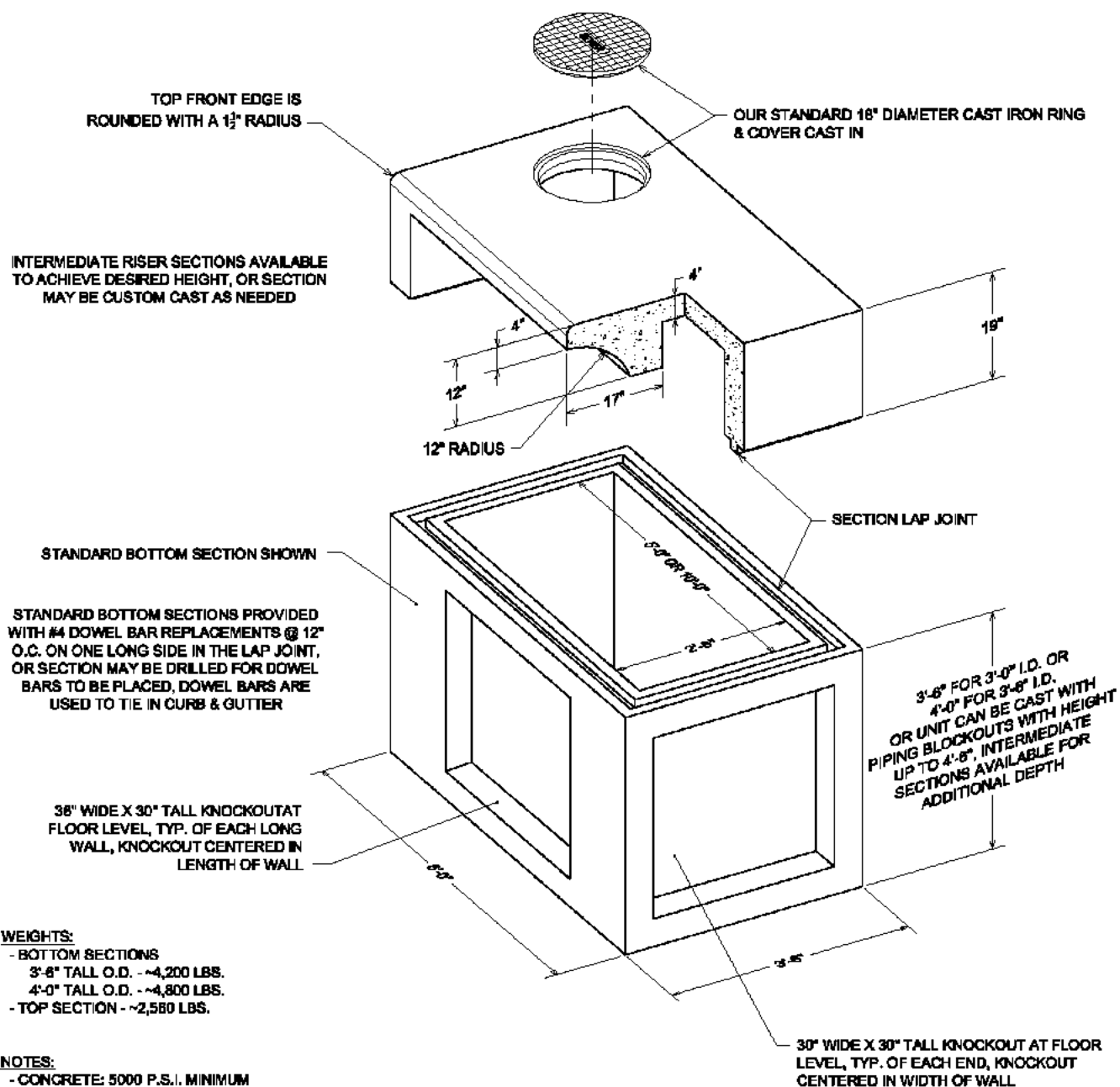
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PRECAST CONCRETE

CURB INLET WITH CONCRETE FACE

2'-6" WIDE X 5'-0" LONG INSIDE DIMENSIONS

THIS IS NOT A STOCK ITEM & IS SPECIAL ORDER



ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

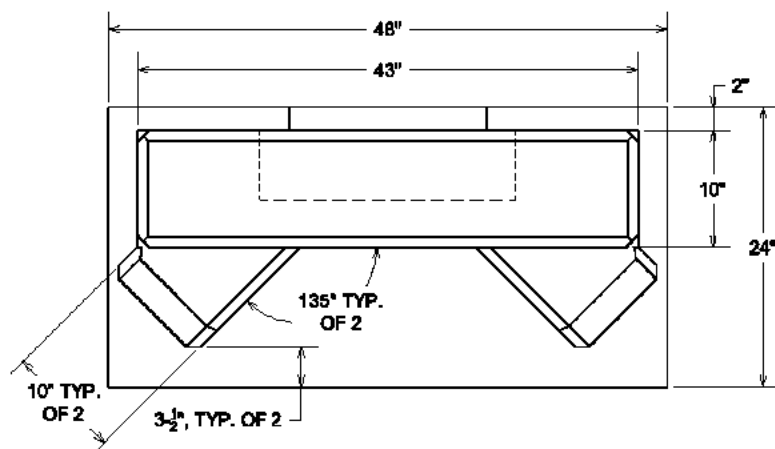
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concrete products, inc.

DRAWING NOT TO SCALE

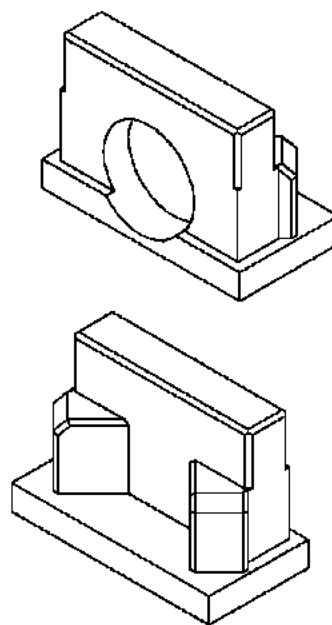
CONCRETE FACE CURB INLET - ISO.DWG
DATE CREATED: 11/05
UPDATED: -----

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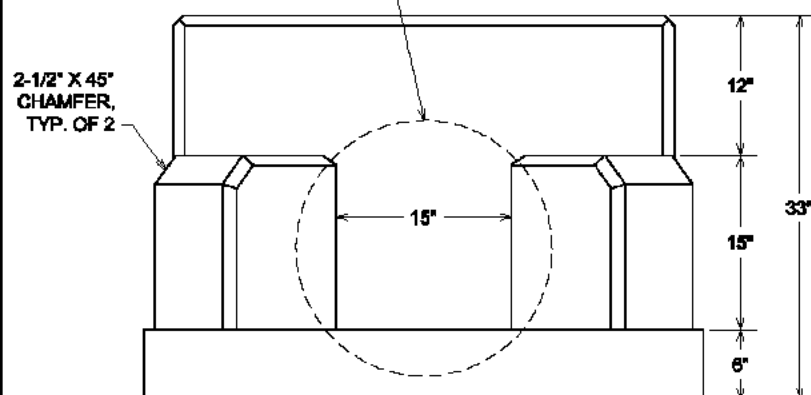
PRECAST CONCRETE SMALL HEADWALL



PLAN VIEW

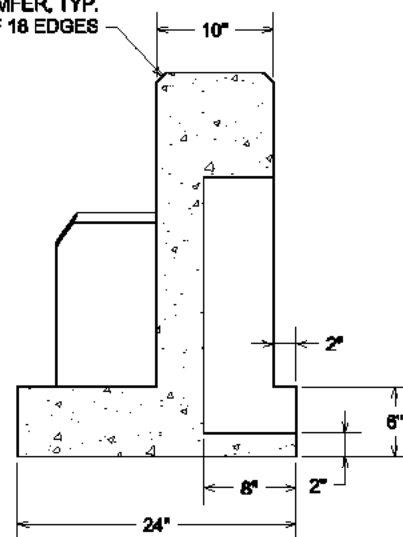


22" DIAMETER X 8" DEEP KNOCKOUT
FOR PIPE, 4" INTO THE FLOOR;
LEAVING 4" OF CONCRETE FOR FIELD
PLACEMENT OF PIPING OPENING



FRONT VIEW

1" X 45° CHAMFER, TYP.
OF 18 EDGES



SECTION VIEW

UNIT WEIGHS APPROXIMATELY 1,500 LBS.

CONCRETE: 4000 P.S.I. (MINIMUM)
REINFORCING: GRADE 60 (MINIMUM)

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

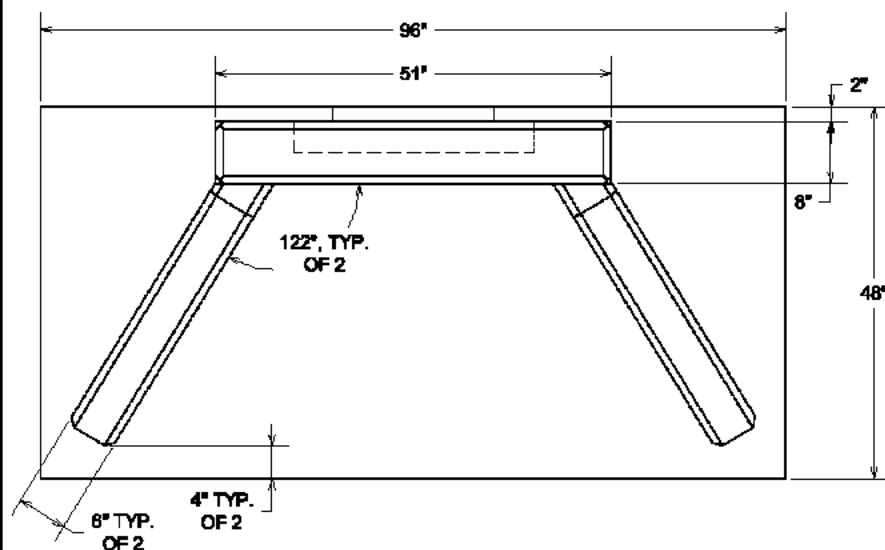
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DRAWING NOT TO SCALE

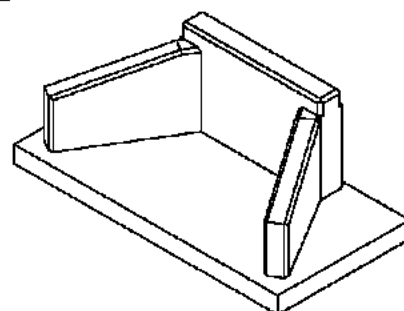
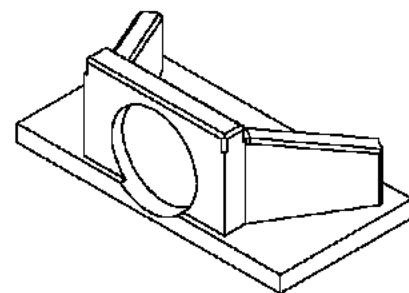
SMALL HEADWALL.DWG
DATE CREATED: 11/03
UPDATED: -----

12650 Tucson Street • Henderson, Colorado 80640 • 303-659-3747, Fax 303-659-1333
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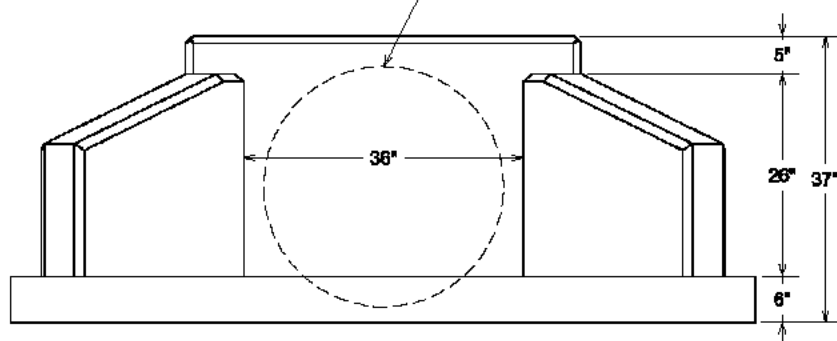
PRECAST CONCRETE LARGE HEADWALL



PLAN VIEW

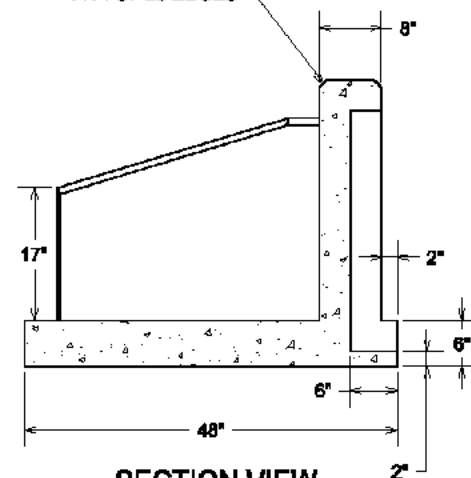


31" DIAMETER X 6" DEEP KNOCKOUT FOR
PIPE, 4" INTO THE FLOOR;
LEAVING 4" OF CONCRETE FOR FIELD
PLACEMENT OF PIPING OPENING



FRONT VIEW

1" X 45° CHAMFER,
TYP. OF 20 EDGES



SECTION VIEW

UNIT WEIGHTS APPROXIMATELY 4,500 LBS.

CONCRETE: 4000 P.S.I. (MINIMUM)
REINFORCING: GRADE 60 (MINIMUM)

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

THE HEADWALL CAN BE CUSTOM MADE
TO ACCOMMODATE LARGER PIPE SIZES
THAN SHOWN OR MULTIPLE PIPES

DRAWING NOT TO SCALE

LARGE HEADWALL.DWG
DATE CREATED: 11/03
UPDATED: -----

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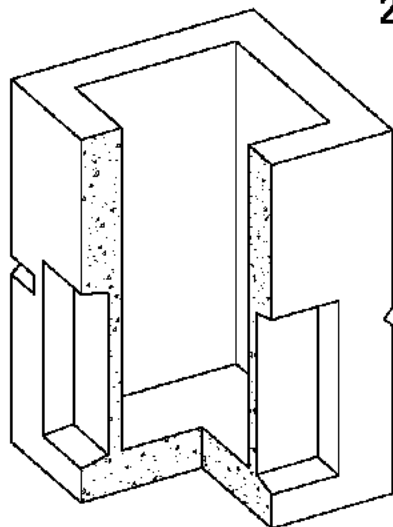
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PRECAST CONCRETE

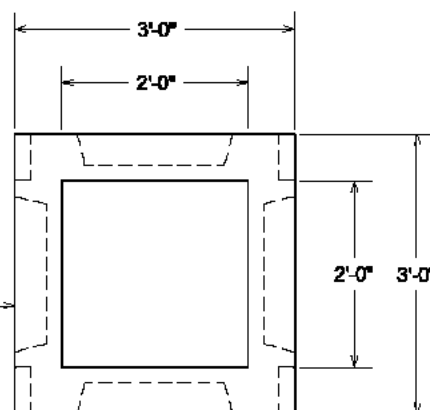
INLET BOX

2'-0" WIDE X 2'-0" LONG X 4'-0" HIGH INSIDE DIMENSIONS
VCP ITEM #202040 INLET WITH KNOCKOUTS

WITH THE PROPER CAST IRON FRAME & GRATE,
THIS INLET BOX IS SUITABLE FOR USE AS A CITY
OF CHEYENNE TYPE B INLET.



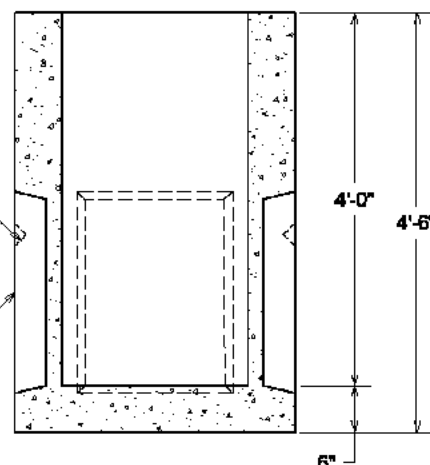
18"x24"x4" DEEP KNOCKOUTS AT
FLOOR LEVEL, CENTERED IN 2'-0"
WALL WIDTH, TYP. EACH WALL



PLAN VIEW

PROVIDED WITH LIFT NOTCHES
FOR HANDLING, TYP. OF 4

18"x24"x4" DEEP KNOCKOUTS AT
FLOOR LEVEL, CENTERED IN 2'-0"
WALL WIDTH, TYP. EACH WALL



SECTION VIEW

NOTES:

- CONCRETE: 4000 P.S.I. MINIMUM
- REINFORCING: GRADE 60 MINIMUM
- WALLS & FLOOR TO BE 6" THICK
- DESIGNED FOR AASHTO HS-20-44 LOADINGS

UNIT WEIGHS APPROXIMATELY 3,700 LBS.

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

EXCAVATION TO BE PROPERLY
PREPARED WITH SUITABLE MATERIAL
TO PLACE STRUCTURE ONTO

DRAWING NOT TO SCALE

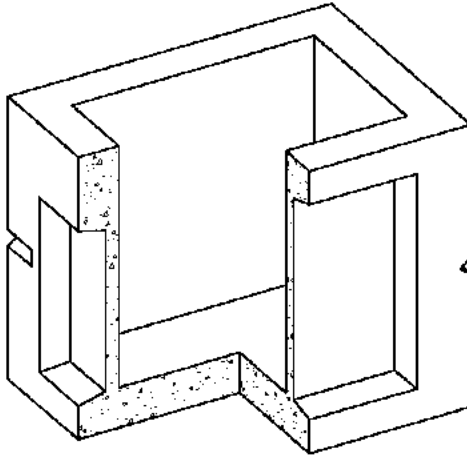
2X2X4 INLET-COYX.DWG
DATE CREATED: 11/ 04
UPDATED: 12/ 09

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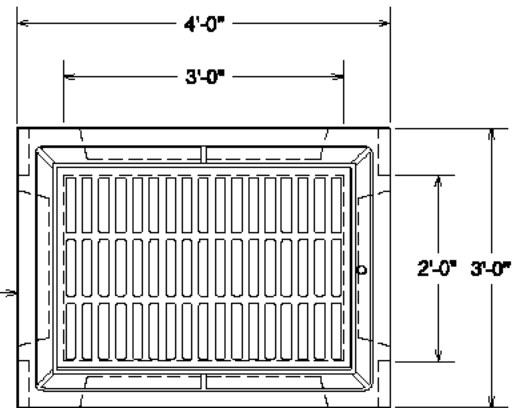
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PRECAST CONCRETE INLET BOX

2'-0" WIDE X 3'-0" LONG X 3'-0" HIGH INSIDE DIMENSIONS
VCP ITEM #203030 INLET WITH KNOCKOUTS



THIS INLET BOX MAY BE USED WITH THE PROPER CAST IRON FRAME & GRATE TO SATISFY CITY OF LARAMIE STANDARDS FOR A 3 CFS INLET. USE MULTIPLE INLETS WITH A SHORT FEEDER PIPE FOR CONNECTING INLETS FOR 6 CFS APPLICATIONS.



PLAN VIEW

KNOCKOUTS 18" WIDE X 24" TALL X 4" DEEP AT FLOOR LEVEL, CENTERED IN WIDTH OF EACH SHORT WALL, TYP. OF 2

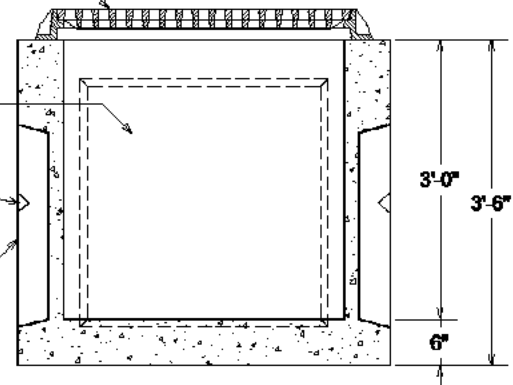
KNOCKOUTS 30" WIDE X 30" TALL X 4" DEEP AT FLOOR LEVEL, CENTERED IN LENGTH OF EACH LONG WALL, TYP. OF 2

OUR STANDARD CAST IRON FRAME & GRATE

KNOCKOUTS 30" WIDE X 30" TALL X 4" DEEP AT FLOOR LEVEL, CENTERED IN LENGTH OF EACH LONG WALL, TYP. OF 2

PROVIDED WITH LIFT NOTCHES FOR HANDLING, TYP. OF 4

KNOCKOUTS 18" WIDE X 24" TALL X 4" DEEP AT FLOOR LEVEL, CENTERED IN WIDTH OF EACH SHORT WALL, TYP. OF 2



SECTION VIEW

NOTES:

- CONCRETE: 4000 P.S.I. MINIMUM
- REINFORCING: GRADE 60 MINIMUM
- MANUFACTURED WITH 6" THICK FLOOR & WALLS
- DESIGNED FOR AASHTO HS-20-44 LOADINGS

UNIT WEIGHS APPROXIMATELY 3,600 LBS.

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

EXCAVATION TO BE PROPERLY
PREPARED WITH SUITABLE MATERIAL
TO PLACE STRUCTURE ONTO

DRAWING NOT TO SCALE

203030 INLET.DWG
DATE CREATED: 8/03
UPDATED: 12/09

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PRECAST CONCRETE

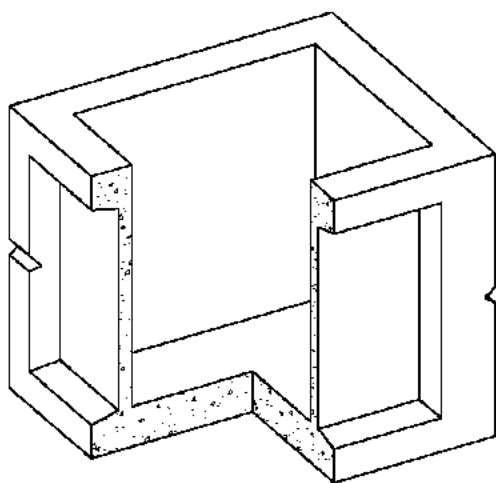
INLET BOX

2'-6" WIDE X 3'-0" LONG X 3'-0" OR 4'-0" HIGH INSIDE DIMENSIONS

VCP ITEM #253030 (3'-0" INSIDE HEIGHT)

VCP ITEM #253040 (4'-0" INSIDE HEIGHT)

INLET WITH KNOCKOUTS



THIS INLET BOX HAS THE SAME DIMENSIONS AS WY DEPARTMENT OF TRANSPORTATION'S TYPE A INLET. THIS INLET BOX IS SUITABLE FOR USE AS A TYPE A INLET.

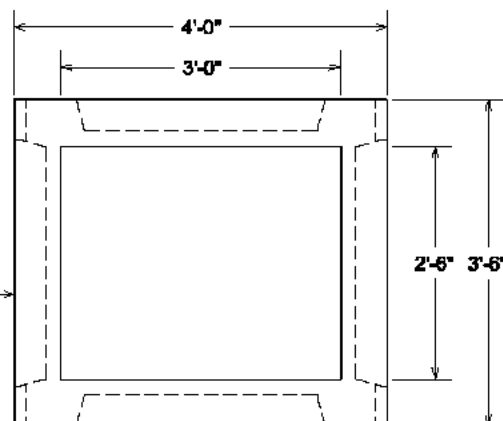
THIS INLET BOX MAY BE USED WITH THE PROPER CAST IRON FRAME & GRATE TO SATISFY CITY OF LARAME STANDARDS FOR A 5 CFS INLET. USE MULTIPLE INLETS WITH A SHORT FEEDER PIPE FOR CONNECTING 10, 15 & 20 CFS APPLICATIONS.

KNOCKOUTS 30" WIDE X 30" TALL X 4" DEEP FOR 3'-0" INSIDE HEIGHT INLET, OR 30" WIDE X 36" TALL X 4" DEEP FOR 4'-0" INSIDE HEIGHT INLET, CENTERED IN WIDTH & LENGTH OF EACH WALL AT FLOOR LEVEL, TYP. ALL 4 WALLS

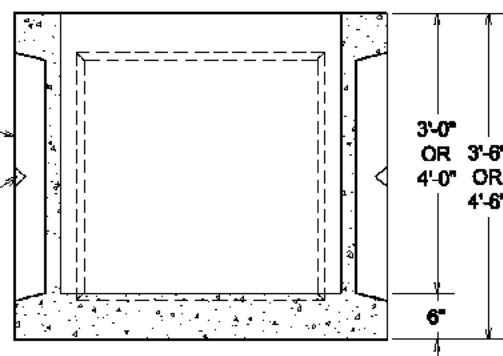
INLET CAN BE PROVIDED WITH FLAT CAST IRON FRAME & GRATE OR CAST IRON FRAME, GRATE & CURB HOOD

KNOCKOUTS 30" WIDE X 30" TALL X 4" DEEP FOR 3'-0" INSIDE HEIGHT INLET, OR 30" WIDE X 36" TALL X 4" DEEP FOR 4'-0" INSIDE HEIGHT INLET, CENTERED IN WIDTH & LENGTH OF EACH WALL AT FLOOR LEVEL, TYP. ALL 4 WALLS

PROVIDED WITH LIFT NOTCHES FOR HANDLING, TYP. OF 4



PLAN VIEW



SECTION VIEW

NOTES:

- CONCRETE: 4000 P.S.I. MINIMUM
- REINFORCING: GRADE 60 MINIMUM
- MANUFACTURED WITH 6" THICK FLOOR & WALLS
- DESIGNED FOR AASHTO HS-20-44 LOADINGS

3'-0" HIGH I.D. BOX WEIGHS APPX. 4,000 LBS.

4'-0" HIGH I.D. BOX WEIGHS APPX. 5,000 LBS.

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

EXCAVATION TO BE PROPERLY PREPARED WITH SUITABLE MATERIAL TO PLACE STRUCTURE ONTO

DRAWING NOT TO SCALE

2-610103 OR 41112103
DATE CREATED: 12/00
UPDATED: 12/09

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PRECAST CONCRETE

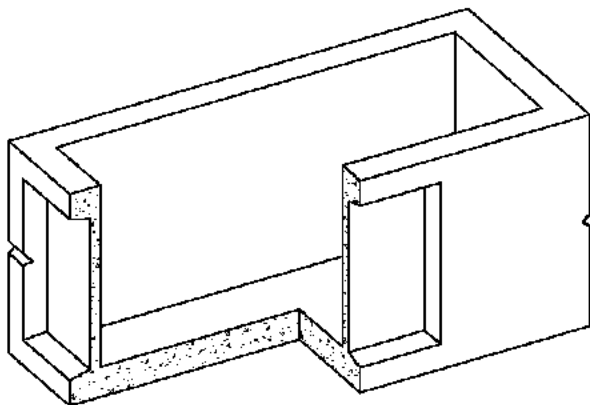
INLET BOX

2'-6" WIDE X 6'-7" LONG X 3'-0" OR 4'-0" HIGH INSIDE DIMENSIONS

VCP ITEM #256530 (3'-0" INSIDE HEIGHT)

VCP ITEM #256540 (4'-0" INSIDE HEIGHT)

DOUBLE INLET WITH KNOCKOUTS



THIS INLET BOX HAS THE SAME DIMENSIONS AS WY
DEPARTMENT OF TRANSPORTATION'S **DOUBLE TYPE A**
INLET. THIS INLET BOX IS SUITABLE FOR USE AS A
DOUBLE TYPE A INLET.

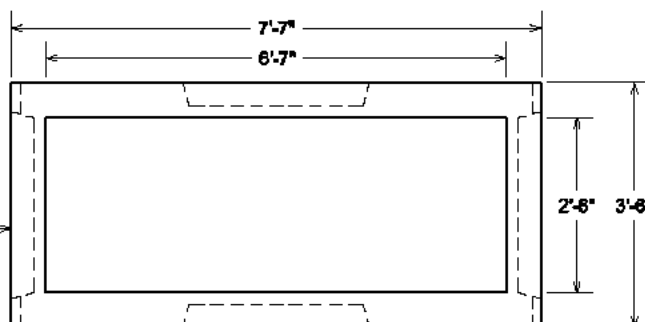
THIS INLET BOX MAY BE USED WITH THE PROPER CAST IRON
FRAMES & GRATES TO SATISFY CITY OF LARAMIE
STANDARDS FOR A 10 CFS INLET. USE MULTIPLE INLETS WITH
A SHORT FEEDER PIPE FOR CONNECTING 15 & 20 CFS
APPLICATIONS.

KNOCKOUTS 30" WIDE X 30" TALL X 4"
DEEP FOR 3'-0" INSIDE HEIGHT INLET,
OR 30" WIDE X 36" TALL X 4" DEEP FOR
4'-0" INSIDE HEIGHT INLET, CENTERED
IN WIDTH & LENGTH OF EACH WALL AT
FLOOR LEVEL, TYP. ALL 4 WALLS

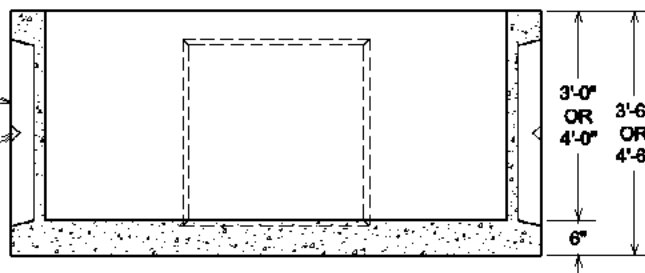
INLET CAN BE PROVIDED WITH 2 FLAT
CAST IRON FRAMES & GRATES OR 2 CAST
IRON FRAMES, GRATES & CURB HOODS

KNOCKOUTS 30" WIDE X 30" TALL X 4"
DEEP FOR 3'-0" INSIDE HEIGHT INLET,
OR 30" WIDE X 36" TALL X 4" DEEP FOR
4'-0" INSIDE HEIGHT INLET, CENTERED
IN WIDTH & LENGTH OF EACH WALL AT
FLOOR LEVEL, TYP. ALL 4 WALLS

PROVIDED WITH LIFT NOTCHES
FOR HANDLING, TYP. OF 4



PLAN VIEW



SECTION VIEW

NOTES:

- CONCRETE: 4000 P.S.I. MINIMUM
- REINFORCING: GRADE 60 MINIMUM
- MANUFACTURED WITH 6" THICK FLOOR & WALLS
- DESIGNED FOR AASHTO HS-20-44 LOADINGS

3'-0" HIGH I.D. BOX WEIGHS APPX. 6,500 LBS.

4'-0" HIGH I.D. BOX WEIGHS APPX. 8,000 LBS.

EXCAVATION TO BE PROPERLY PREPARED WITH
SUITABLE MATERIAL TO PLACE STRUCTURE ONTO

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

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DRAWING NOT TO SCALE

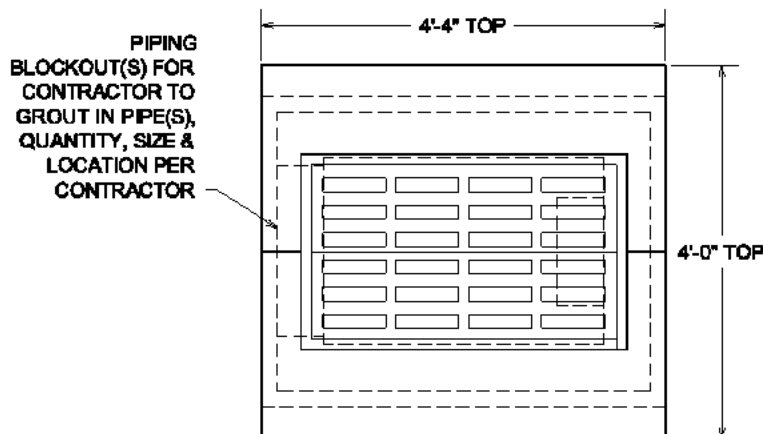
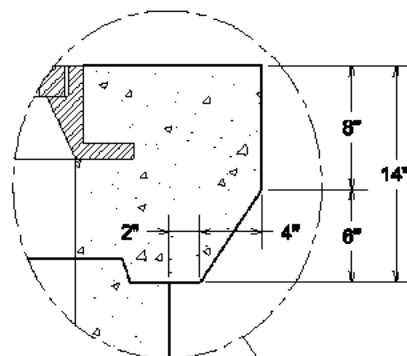
2-6X6-7X5 OR 4 DOUBLE INLET DWG
DATE CREATED: 12/06
UPDATED: 12/09

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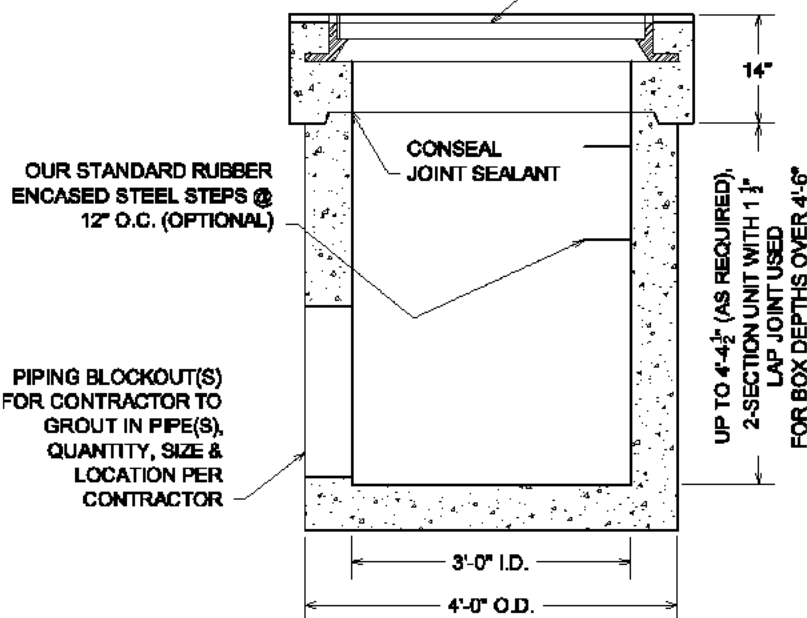
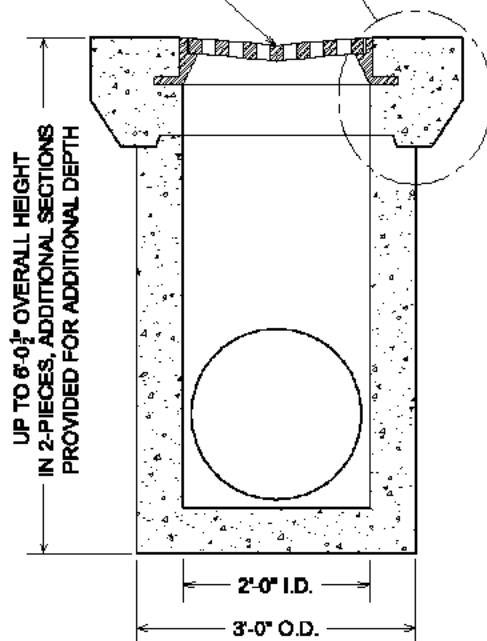
PRECAST CONCRETE

TYPE 13 AREA INLET

PRECAST INLET BOX WITH STANDARD TYPE 13 INLET TOP
2'-0" WIDE X 3'-0" LONG INSIDE DIMENSIONS

**PLAN VIEW**

STANDARD TYPE 13 CAST IRON
FRAME & GRATE CAST IN

**SECTION VIEW****SIDE SECTION VIEW****NOTES:**

- CONCRETE: 4000 P.S.I. MINIMUM
- REINFORCING: GRADE 60 MINIMUM
- WALLS & FLOOR TO BE 6" THICK
- DESIGNED FOR AASHTO HS-20-44 LOADINGS

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

WEIGHTS:

- TOP WEIGHS APPX. 2,800 LBS.
- 4'-8" I.D. HEIGHT INLET BOX SECTION WEIGHS APPX. 5,000 LBS.

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DRAWING NOT TO SCALE

TYPE 13 AREA INLET.DWG
DATE CREATED: 11/ 04
UPDATED: -----

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PRECAST CONCRETE TYPE C INLET

35" WIDE X 35" LONG INSIDE DIMENSIONS

OUR STANDARD RUBBER ENCASED
STEEL STEPS @ 12" O.C.

PLAN VIEW

SHOWN WITH FABRICATED GRATE WITH (4)
S4 x 7.7 BEAMS; ALSO AVAILABLE WITH
ALTERNATE CLOSE MESH GRATE
(REFERENCE C-DOT'S M-604-10 PLAN SHEET
FOR GRATE INFORMATION)

STANDARD 1½" SHIP LAP JOINT
SUPPLIED FOR STRUCTURES OVER
4'-6" TALL, EACH JOINT SEALED WITH
CONSEAL JOINT SEALANT

SECTION VIEW

PIPING BLOCKOUTS FOR CONTRACTOR
TO GROUT IN PIPES; QUANTITY, SIZE &
LOCATION PER CONTRACTOR

PIPING BLOCKOUTS FOR CONTRACTOR
TO GROUT IN PIPES; QUANTITY, SIZE &
LOCATION PER CONTRACTOR

WEIGHT

- APPX. WEIGHT FOR 3'-0" I.D. TALL INLET: 4,200 LBS.
- APPX. 1,000 LBS./FT. FOR ADDITIONAL HEIGHT

NOTES:

- CONCRETE: 4000 P.S.I. MINIMUM
- REINFORCING: GRADE 60 MINIMUM
- DESIGNED FOR AASHTO HS-20-44 LOADINGS
- 6½" THICK WALLS, 6" THICK FLOOR

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

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DRAWING NOT TO SCALE

TYPE-C INLET-CO.DWG
DATE CREATED: 11/ 04
UPDATED: -----

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PRECAST CONCRETE M1 INLET BOX

2'-6" WIDE X 4'-6" LONG INSIDE DIMENSIONS

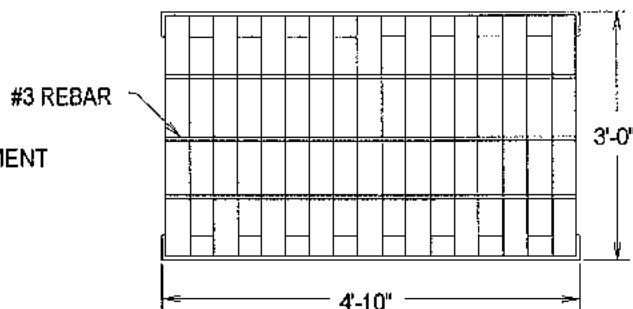
6" WALLS AND FLOOR

PROVIDED WITH TYPE 3 GRATE

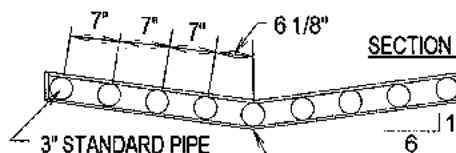
MANUFACTURED TO WYOMING DEPARTMENT
OF TRANSPORTATION STANDARDS

NOTE: FRAME TO HAVE SAME INSIDE DIMENSIONS
AS THE INSIDE OF PRECAST BOX TO ACCOMMODATE
VARIOUS DEPTHS OF INLETS

TYPE 3 GRATE PLAN VIEW OF GRATE

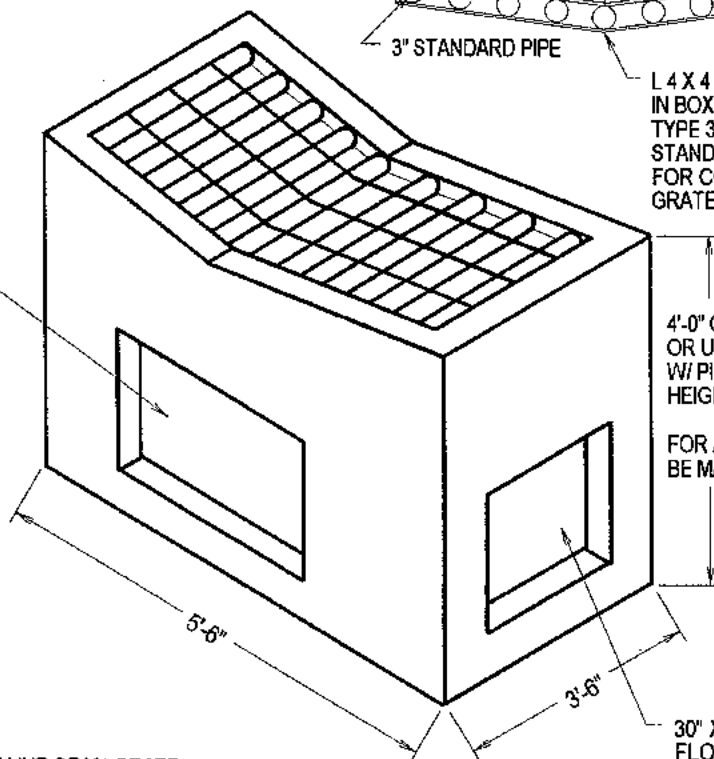


SECTION VIEW OF GRATE



L 4 X 4 X 1/4 USED FOR FRAME
IN BOX AND FOR FRAME FOR
TYPE 3 GRATE (SEE WYOMING
STANDARDS 625-01A SHEET 1
FOR COMPLETE FRAME AND
GRATE INFORMATION)

36" WIDE X 30" HIGH
KNOCKOUTS AT FLOOR
LEVEL, TYPICAL OF EACH
LONG SIDE, CENTERED



4'-0" OR 4'-6" W/ KNOCKOUTS
OR UNIT CAN BE CUSTOM CAST
W/ PIPING BLOCKOUTS W/
HEIGHT UP TO 5'-0"

FOR ADDITIONAL DEPTH, BOX WILL
BE MANUFACTURED IN SECTIONS

APPROXIMATE WEIGHTS:
4'-0" O.D. TALL - 5800 LBS.
4'-6" O.D. TALL - 7000 LBS.

D DIMENSION IS FROM FLOW LINE OF M1 GRATE
TO FLOW LINE OF PIPE, IF D DIMENSION IS OVER 4' BOX
WILL BE MANUFACTURED IN SECTIONS WITH INDUSTRY
STANDARD SHIP LAP JOINT SEALED WITH CONSEAL JOINT SEALANT

DESIGNED FOR AASHTO HS-20-44 LOADING
CONCRETE 4000 P.S.I. MINIMUM

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY
DRAWING IS NOT TO SCALE

30" X 30" KNOCKOUTS AT
FLOOR LEVEL, TYPICAL
OF EACH END, CENTERED

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11/98

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Precast Concrete INLET BOX

May also be used as Catch Basin

Standard Sizes (inside dimensions)

Item Number		2 Feet Deep Box Weighs	Weight of Addition Height
2020	2' x 2'	2,175 lbs	750 lbs/ft.
2030	2' x 3'	2,700 lbs	900 lbs/ft.
2530	2'-6" x 3'	3,000 lbs	975 lbs/ft.
3030	3' x 3'	3,300 lbs	1,050 lbs/ft.
4040	4' x 4'	4,575 lbs	1,350 lbs/ft.

Specify depth with last 2 numbers
(See vault size example)

Depths to vary up to 4 ft. as needed
For additional height, 2-piece units are used (See Catch Basin for similar units)

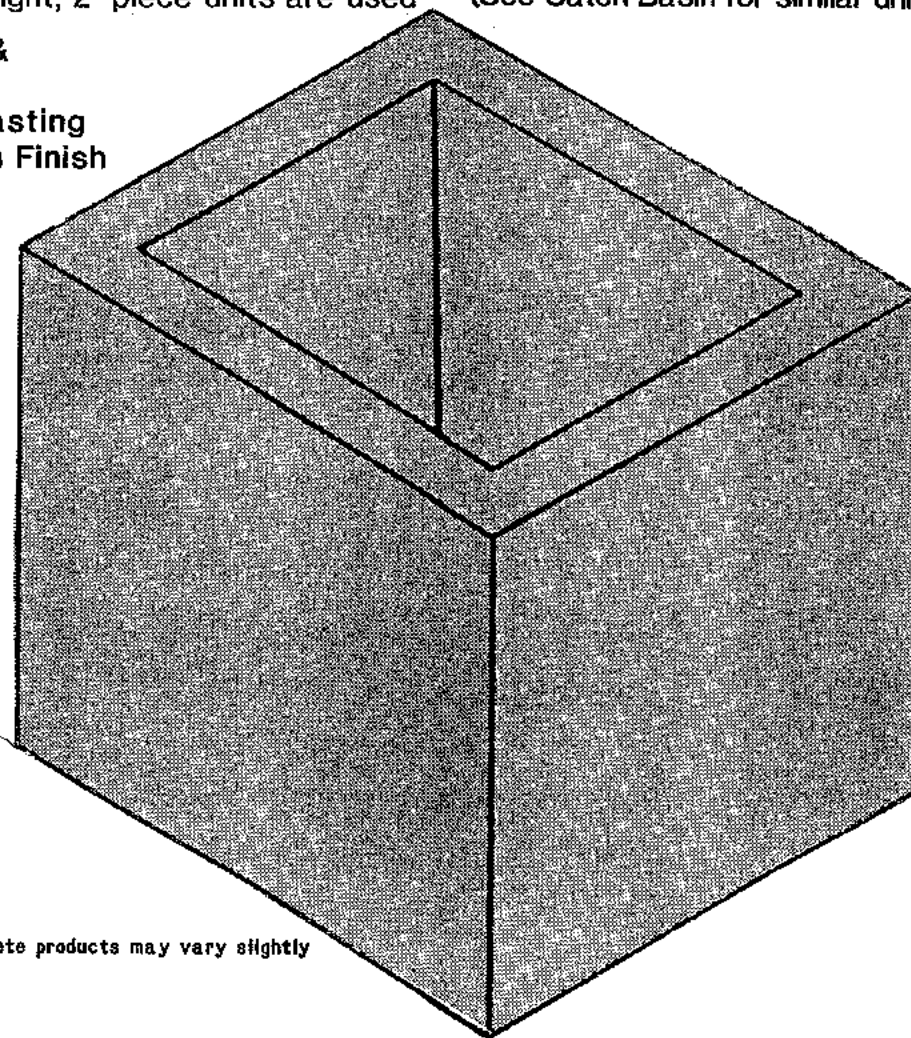
Easy Handling &
Placement
High Quality Casting
Smooth Uniform Finish

Walls and Floor
are 6" thick

Various lid and
grating styles
available

Pipe Blockouts
as Required

Sizes vary
according to
contractor's
specifications



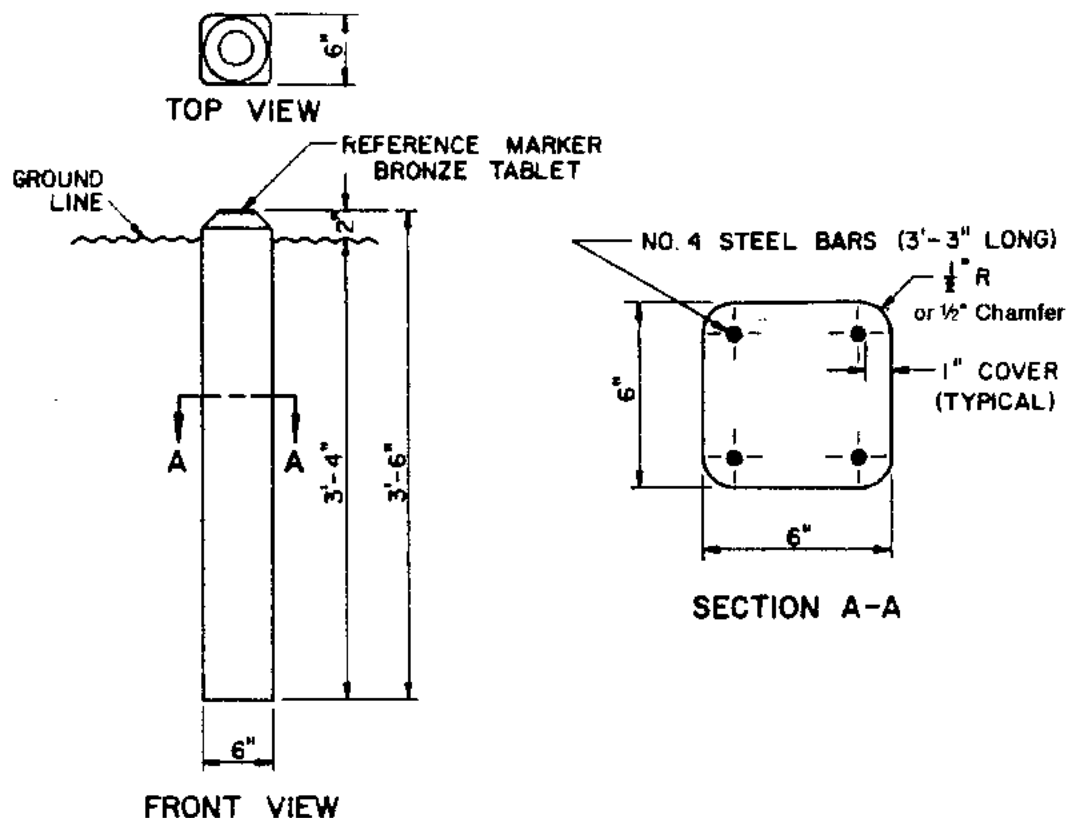
actual dimensions of concrete products may vary slightly

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concrete products, inc.

UPDATED 11/97

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10021 Amarillo Blvd. East • Amarillo, Texas 79107 • 806-374-3747, Fax 806-335-3717

Precast Concrete

REFERENCE MARKER

actual dimensions of concrete products may vary slightly

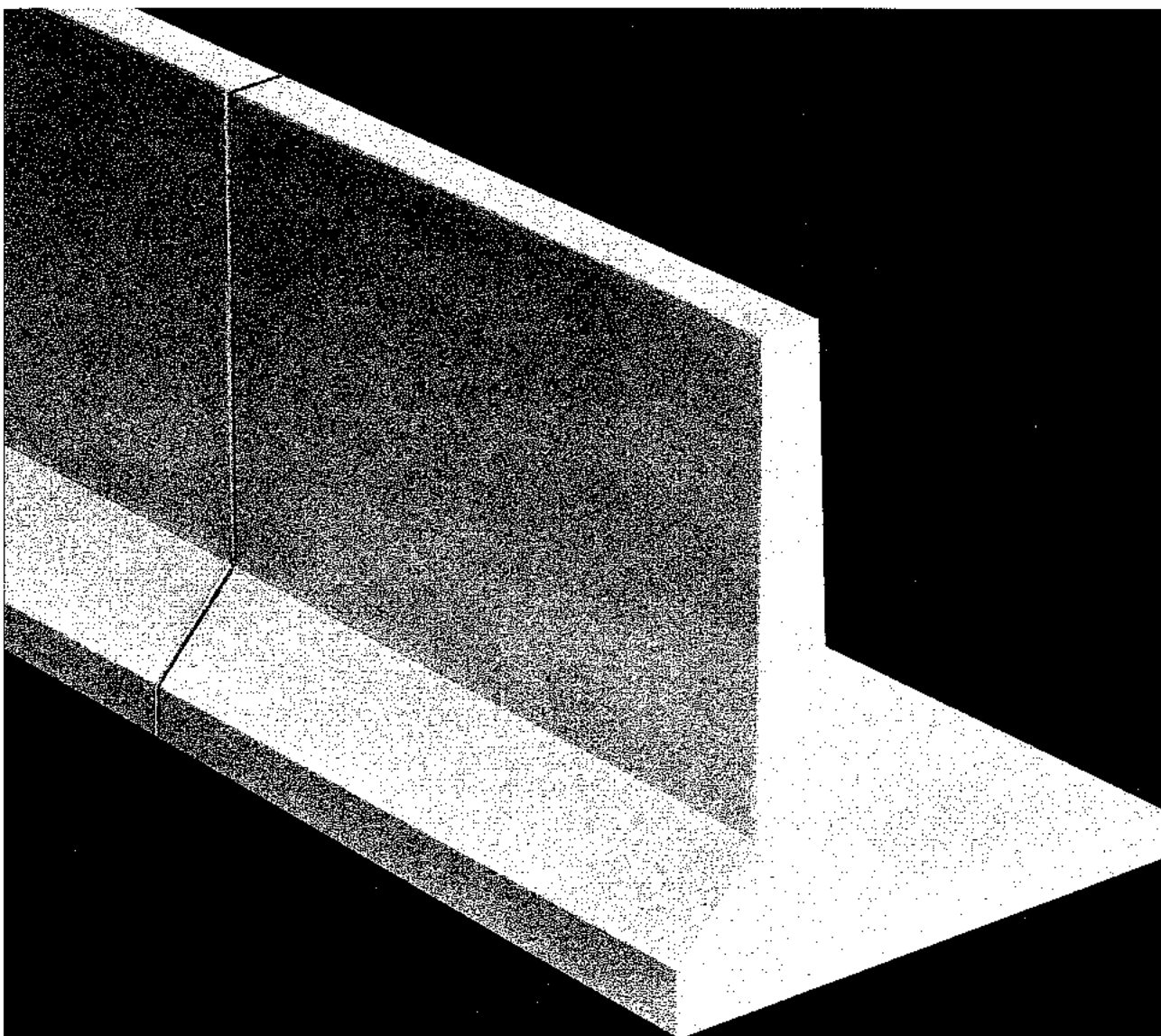
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concrete products, inc.

UPDATED 11/97

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vaughn concrete products

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2671 So. Greeley Highway • Cheyenne, Wyoming 82007 • (307) 634-0695



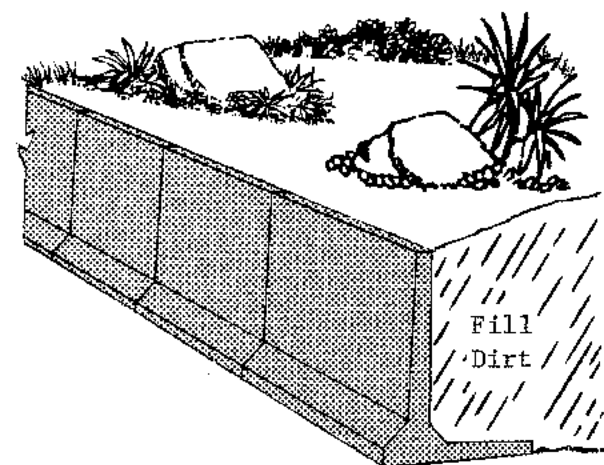
Precast Concrete Retaining Wall



Precast Concrete Retaining Wall Sections are self supporting for ease of placement.

Vaughn's superior design allows placement of self standing wall sections with minimal effort, thus reducing high on the job labor costs.

Wall is engineered so the weight of the dirt holds the retaining wall secure.



Additional stability is obtained by welding the embedded weld plates of one section to that of another.

REMEMBER. . .

Vaughn's Retaining Wall's are

**FAST
ECONOMICAL
UNCOMPLICATED
DURABLE
MOVABLE**

and offer a **VARIETY** of uses & finishes

GET THE PRECAST ADVANTAGE

Vaughn's Precast Concrete Retaining Wall is available in various heights.

Sections are 5 ft. 2 in. wide.

Reinforcing is #4 bar.

Engineering Data is available.

WEIGHTS	
WALL HEIGHT	WEIGHT
4'	3,340 LBS.
6'	4,170 LBS.
8'	4,750 LBS.

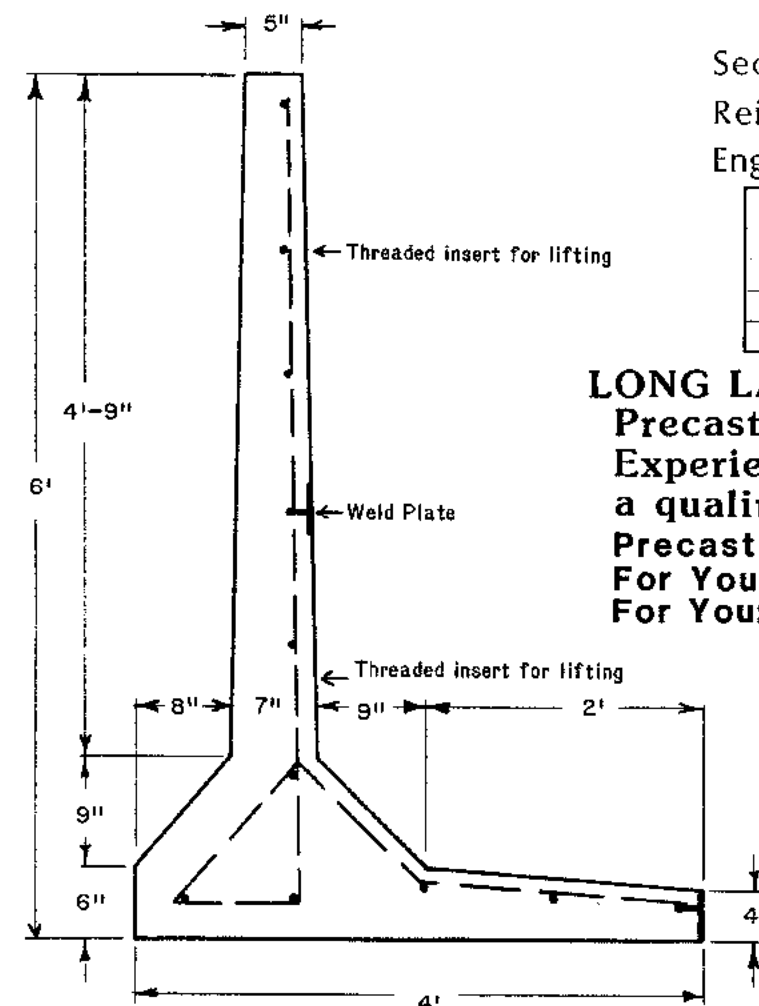
LONG LASTING, DURABLE, & STRONG!

Precast concrete strengthens with age.

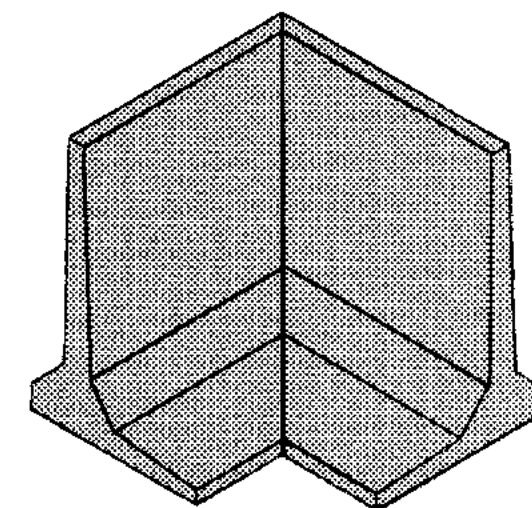
Experienced production people ensure a quality finished product.

Precast Concrete Is The Ideal Product For Your Project. Here Are The Benefits For You:

- Economically produced and installed.
- Long lasting, and strong.
- Quality is "built in" under plant controlled conditions.
- Cannot rust, rot, melt, decay or burn.
- Maintenance free.
- Versatile, practical and decorative.
- Manufactured to meet your specific needs.
- Requires minimal field labor for installation.



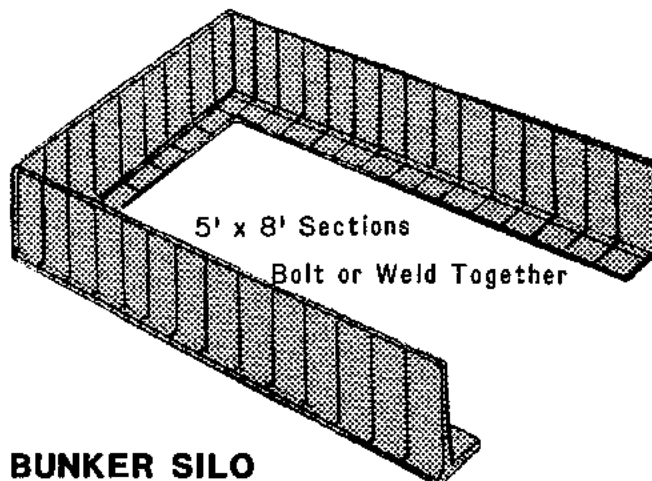
Corners are made by using special sections which are formed with a 45 degree tapered end. Placement of a left and right corner section allows one to obtain square corners.



They also make great screening fences!

**The larger 5 ft. x 8 ft. Vaughn's retaining wall sections
make excellent Bunker Silos
for all types of storage:**

**grain
silage
wood chips
sand or gravel**



Let us show you some in use today.

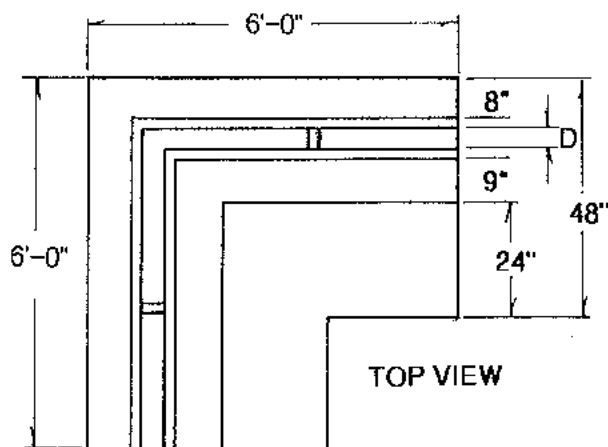
**BUNKER SILO
STORAGE**

**vaughn
concrete products, inc.**

12650 Tucson Street Henderson, Colorado 80640-9443 (303) 659-3747 Fax (303) 659-1333
 2671 S. Greeley Hwy Cheyenne, Wyoming 82007-3681 (307) 634-0695 Fax (307) 634-0694
 10021 Amarillo Blvd E. Amarillo, Texas 79108-7542 (806) 374-3747 Fax (806) 335-3717
 Toll Free Phone (877) 827-8255 Toll Free Fax (877) 827-7363
www.vaughnconcreteproducts.com

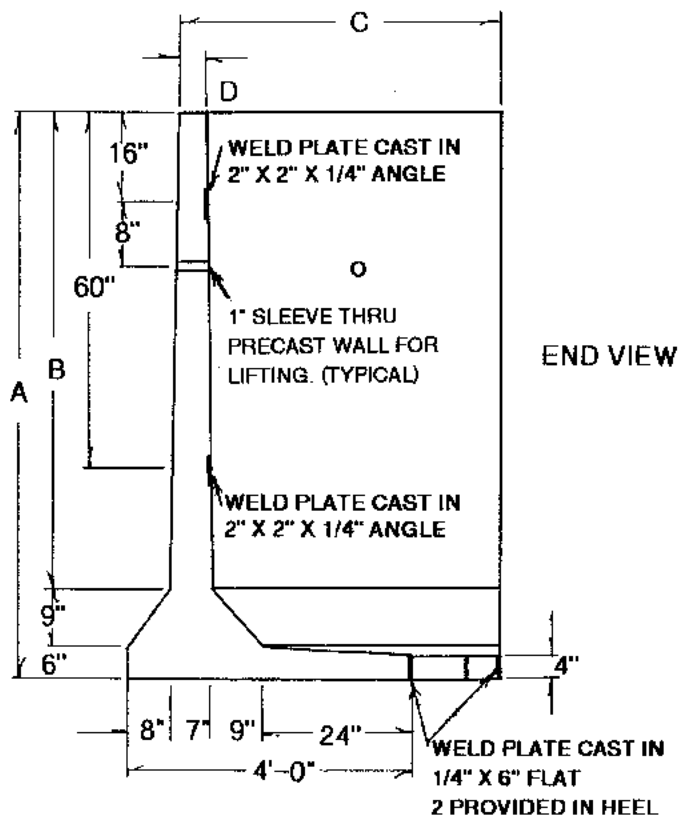
Precast Concrete RETAINING WALL INSIDE CORNER SECTION

THE DIMENSIONS SHOWN HERE
ARE TYPICAL OF EACH SIDE



STANDARD WALL SIZES

A	B	C	D	WEIGHT
4'	33"	62-1/2"	6"	7000 lbs
5'	45"	62-1/4"	5-1/2"	7400 lbs
6'	57"	62	5"	7700 lbs
8'	81"	61-1/2"	4"	8200 lbs



Actual dimensions of concrete products may vary slightly

Vaughn
concrete products, inc.

UPDATED 11/97

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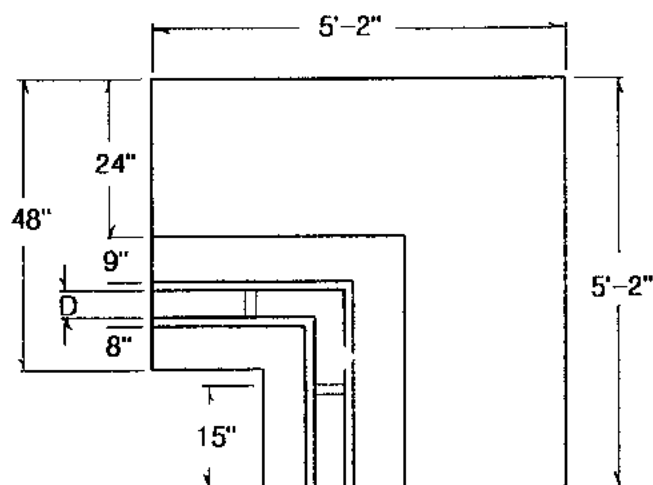
Precast Concrete

RETAINING WALL

OUTSIDE CORNER SECTION

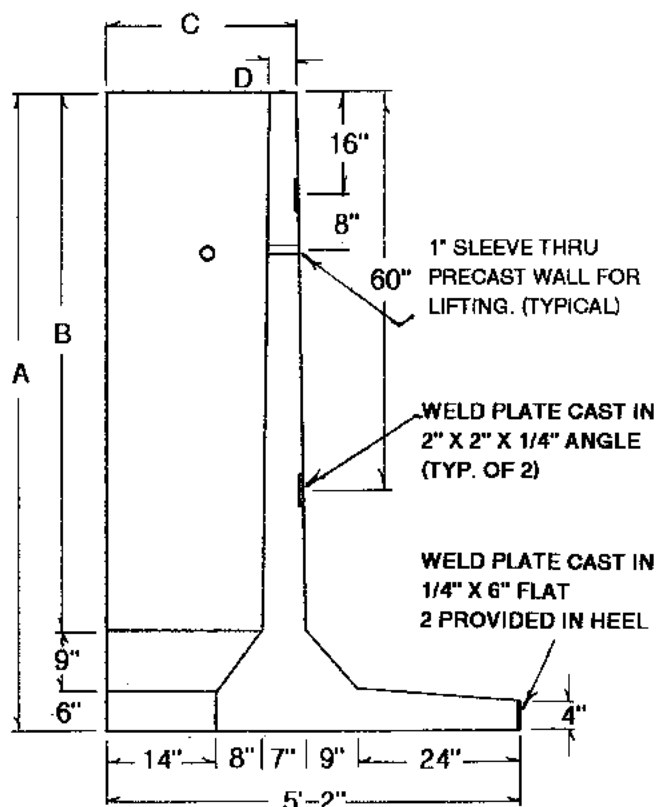
THE DIMENSIONS SHOWN HERE
ARE TYPICAL OF EACH SIDE

TOP VIEW



STANDARD WALL SIZES				
A	B	C	D	WEIGHT
4'	33"	28-1/4"	6"	3,200 LBS.
5'	45"	28"	5-1/2"	3,500 LBS.
6'	57"	27-3/4"	5"	3,800 LBS.
8'	81"	27-1/4"	4"	4,250 LBS.

END VIEW



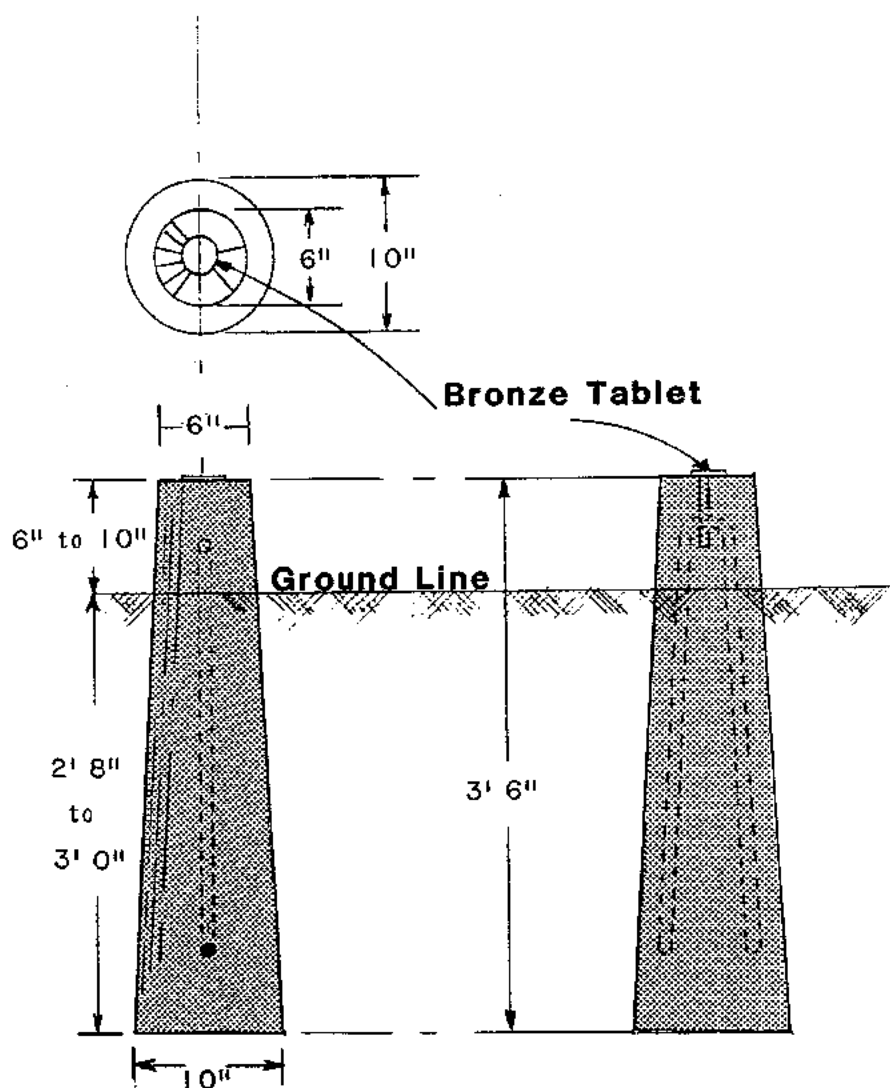
Actual dimensions of concrete products may vary slightly

vaughn
concrete products, inc.

UPDATED 12/09

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Precast Concrete

Right Of Way Marker

Marker Post

State of Colorado Division of Highway Specifications

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concrete products, inc.

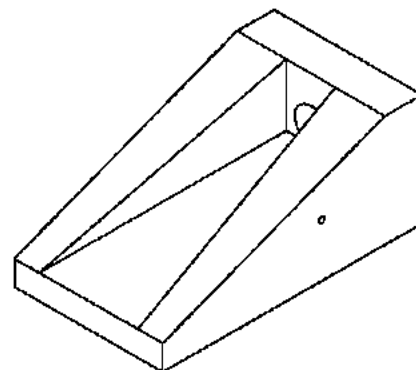
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PRECAST CONCRETE STILLING BASIN

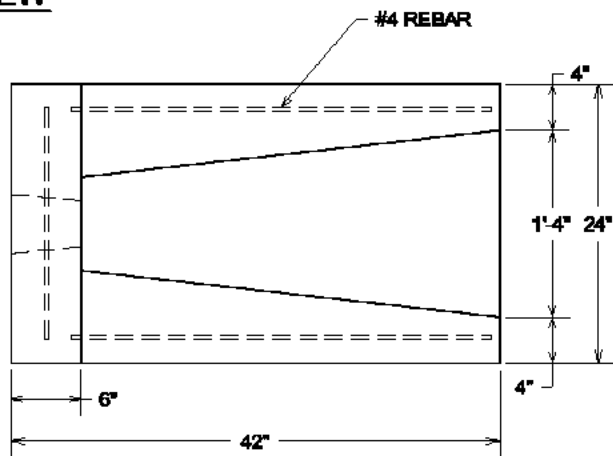
24" WIDE X 42" LONG X 18" HIGH INSIDE DIMENSIONS

VCP ITEM #STILLING BASIN

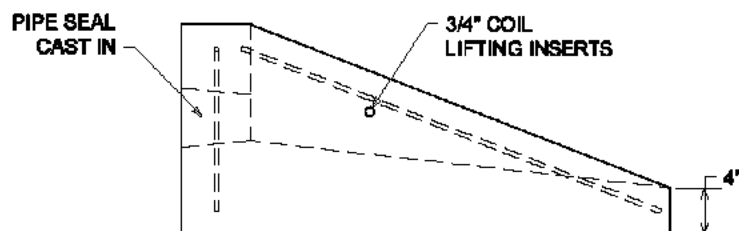
FOR 4" PIPE



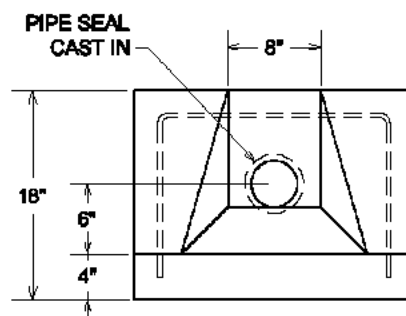
PLAN VIEW



SIDE VIEW



FRONT VIEW



MANUFACTURED WITH 6" TAPERED WALLS & FLOOR

CONCRETE 4,000 P.S.I. (MINIMUM)
REINFORCING GRADE 60 (MINIMUM)

APPROXIMATE WEIGHT IS 880 LBS.

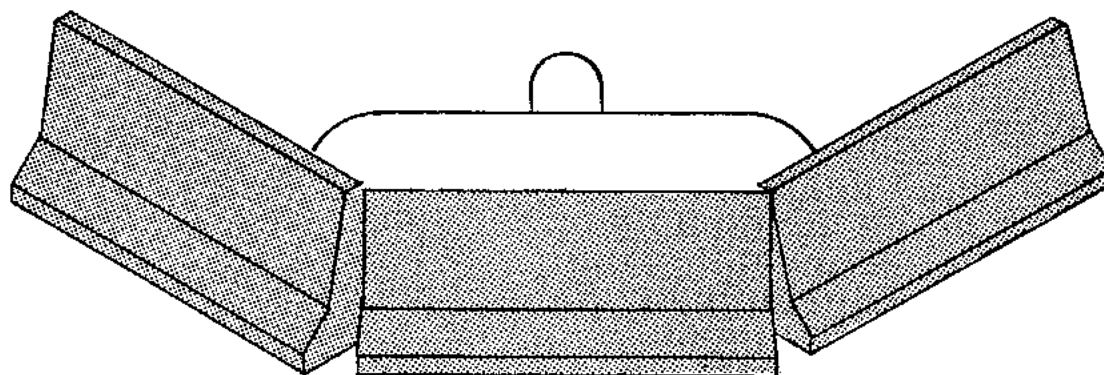
ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

Vaughn
concrete products, inc.

STILLING BASIN DWG
DATE CREATED: 11/03

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BARRIERS for SAFETY



PRECAST CONCRETE SAFETY BARRIERS

You will be confident that your propane tanks are

well protected when you use

Vaughn Concrete Products' Precast Concrete Safety Barriers.

Our Barriers are safe, convenient, and economical.

We have a large stock, available for purchase or rent.

If You Need Barriers, Buy the Best.

**Available at our yard for pick up or
Vaughn Concrete Products will deliver**

CALL US FOR MORE INFORMATION

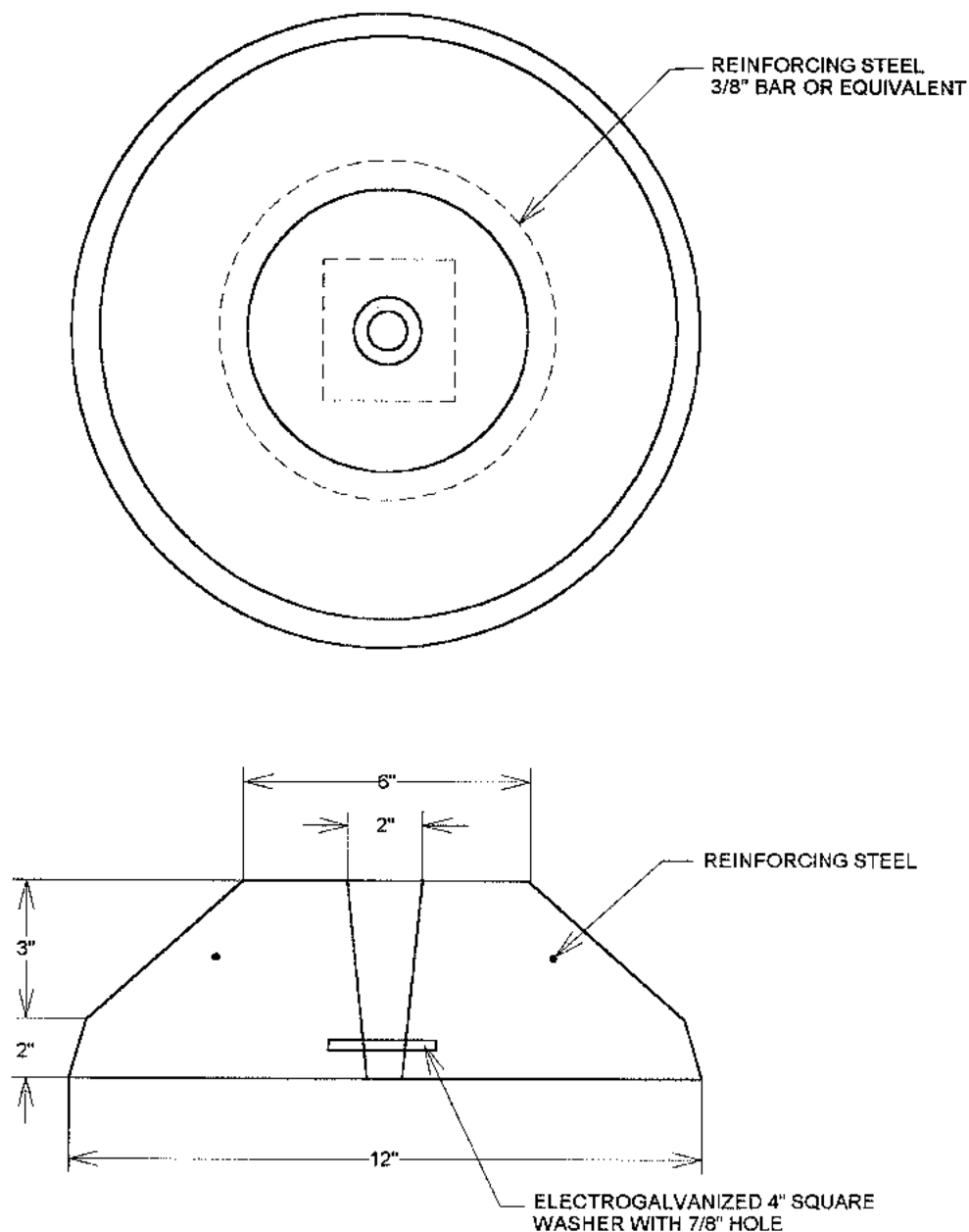
**vaughn
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UPDATED 11/97

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PRECAST CONCRETE CONE ANCHOR

MEETS MOST PUBLIC SERVICE COMPANIES' SPECIFICATIONS



UNIT WEIGHTS APPROXIMATELY 34 LBS.

CONCRETE: 4000 P.S.I. MINIMUM
REINFORCING: GRADE 60 MINIMUM

DRAWING IS NOT TO SCALE
ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

vaughn
concrete products, inc.

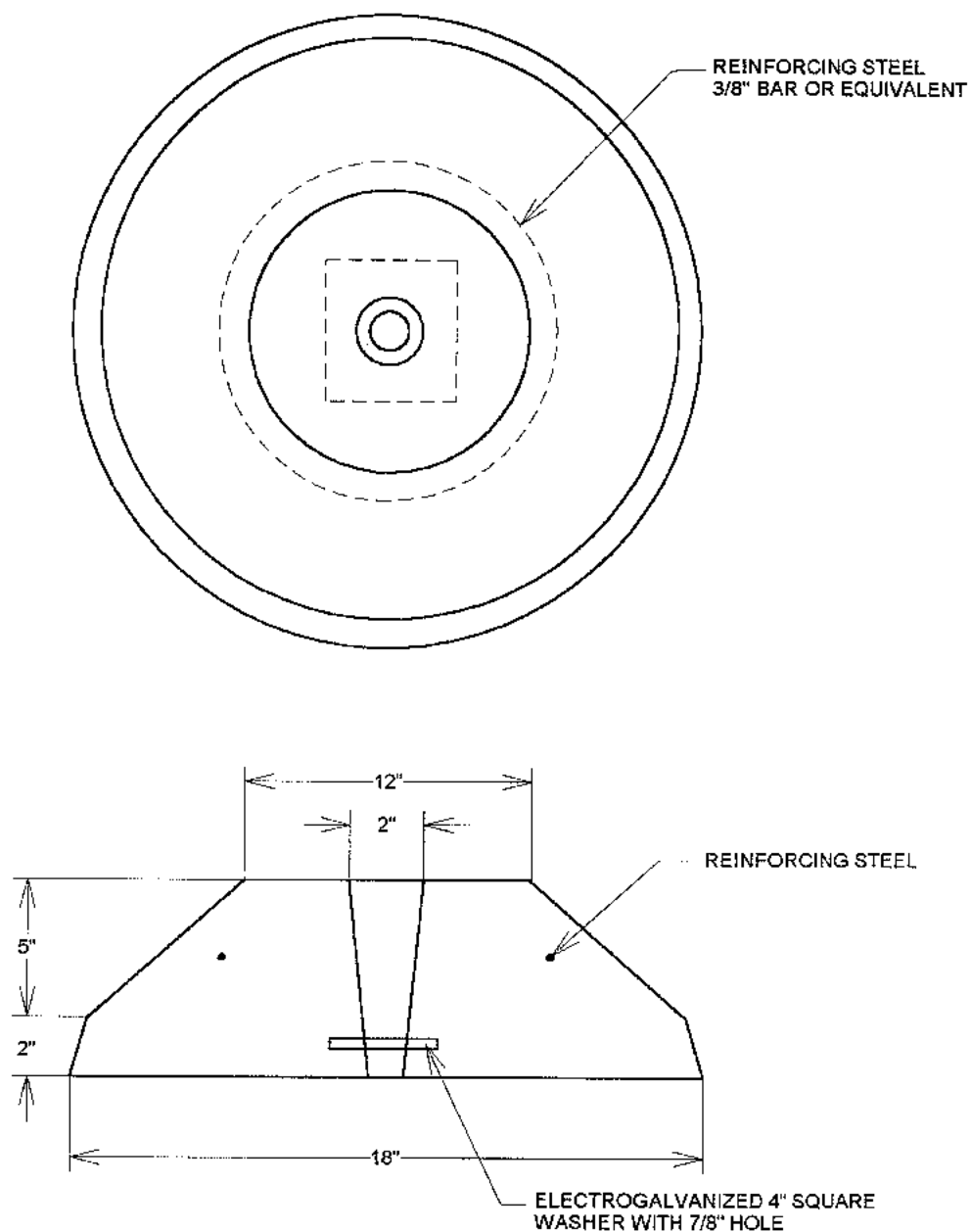
UPDATED 12/99

CATANCHOR12.SKF

12650 Tucson Street - Henderson, Colorado 80640 - 303-659-3747, Fax 303-659-1333
2671 So. Greeley Hwy - Cheyenne, Wyoming 82007 - 307-634-0695, Fax 307-634-0694
10021 Amarillo Blvd., East - Amarillo, Texas 79108 - 806-374-3747, Fax 806-335-3717

PRECAST CONCRETE CONE ANCHOR

MEETS MOST PUBLIC SERVICE COMPANIES' SPECIFICATIONS



UNIT WEIGHTS APPROXIMATELY 104 LBS.

CONCRETE: 4000 P.S.I. MINIMUM
REINFORCING: GRADE 60 MINIMUM

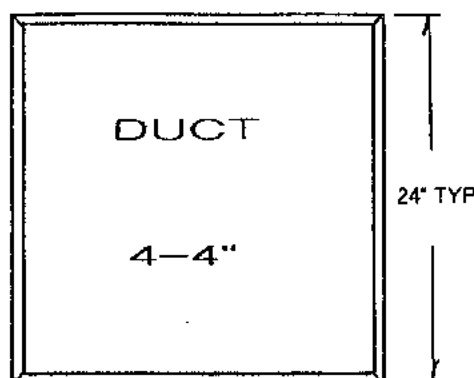
DRAWING IS NOT TO SCALE
ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

vaughn
concrete products, inc.

UPDATED 12/99
CATANCHOR1.B.SKP

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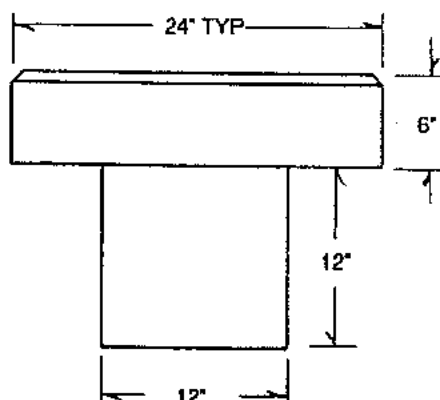
Precast Concrete DUCT MARKER



Plan View

Lettering imprinted as required.

Approximately 1/4" Deep, 1/2" Wide, 4" Tall



Side View

Weight: 420 lbs.

4000 PSI concrete

Wire mesh & rebar reinforced

3/4 PVC conduit cast in top slab to facilitate lifting

Actual dimensions of concrete products may vary slightly.

Vaughn
concrete products, inc.

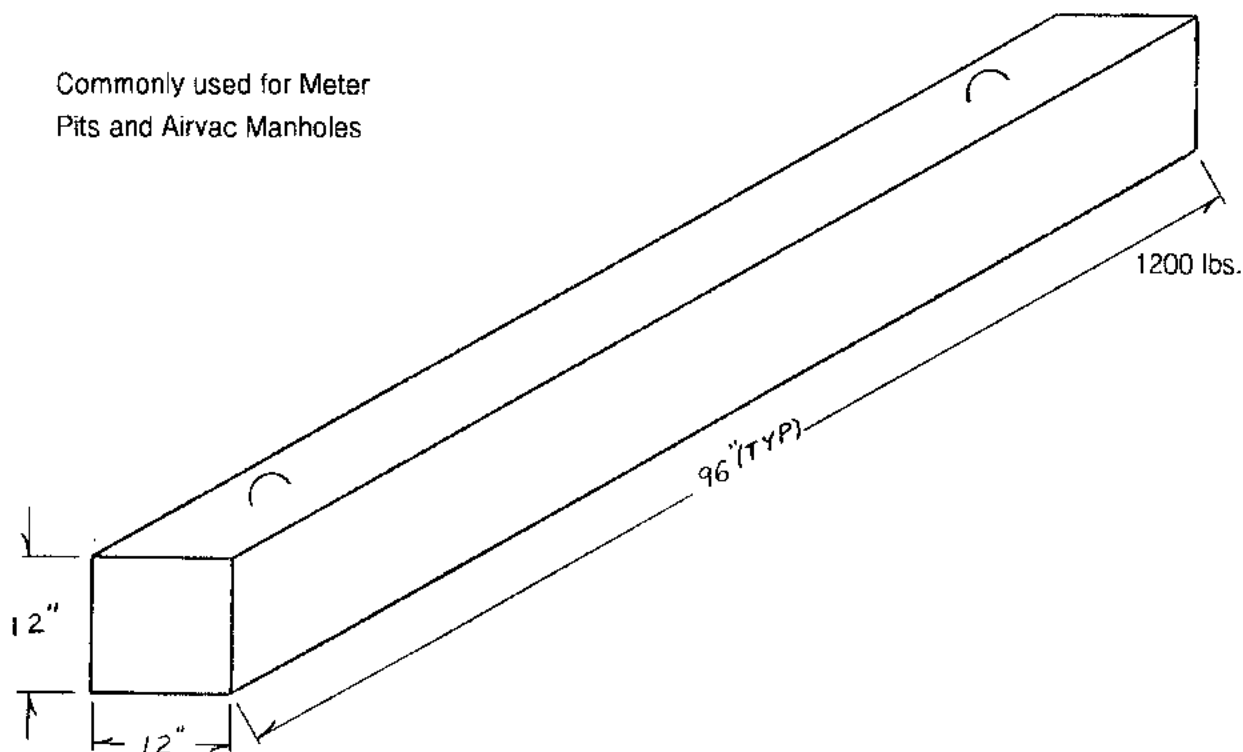
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Precast Concrete

FOOTING BLOCK

May be used with
any size manhole

Commonly used for Meter
Pits and Airvac Manholes



Reinforced with
2 - #4 bars
minimum

Concrete 4000 P.S.I (Minimum)

Actual dimensions of concrete products may vary slightly

vaughn
concrete products, inc.

UPDATED 11/97

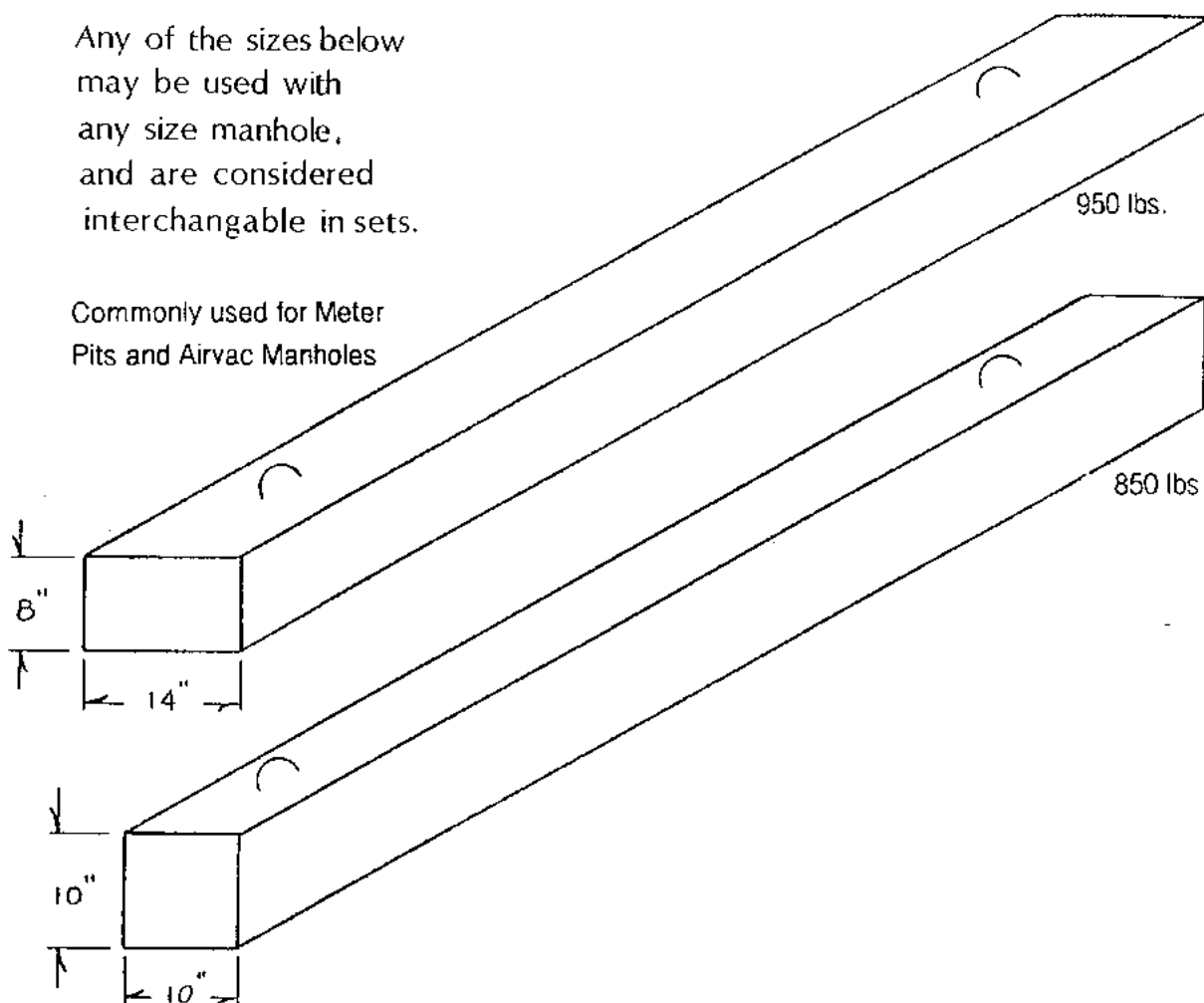
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Precast Concrete

FOOTING BLOCK

Any of the sizes below
may be used with
any size manhole,
and are considered
interchangeable in sets.

Commonly used for Meter
Pits and Airvac Manholes



The 10" x 10" Footing Block
is a stock item.
The 8" x 14" Footing Block
is a special order item.

Reinforced with
2 - #4 bars
minimum

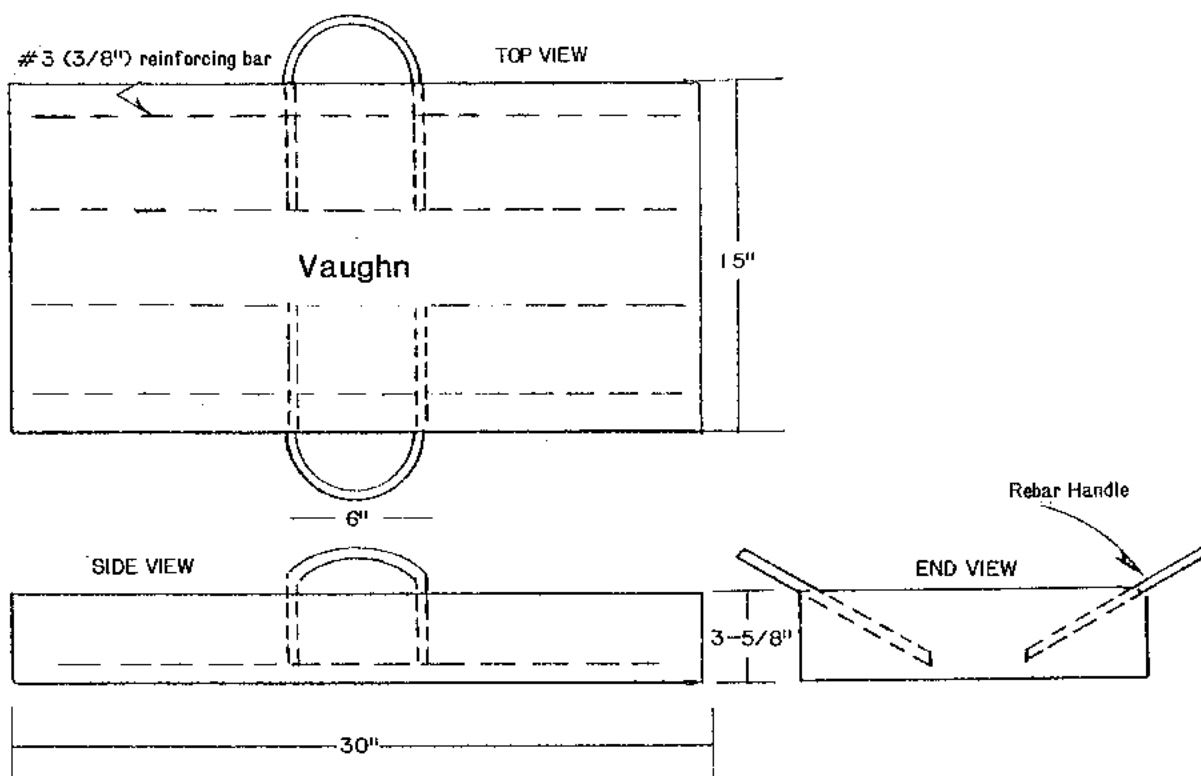
Actual dimensions of concrete products may vary slightly

vaughn
concrete products, inc.

UPDATED 11/97

Precast Concrete GROUND BRACE

Meets most Public Service Companies' specifications.



Weight: 120 lbs.

Concrete has a minimum compressive strength of 4000 psi

Actual dimensions of concrete products may vary slightly.

Vaughn
concrete products, inc.

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PRECAST CONCRETE TANK WITH 4" OR THINNER FLOOR INSTALLATION GUIDELINES/INSTRUCTIONS

THE ITEMS LISTED HERE ARE BASIC GUIDELINES/INSTRUCTIONS. THE EXCAVATOR/INSTALLER MUST PERFORM THE WORK, BUT ONLY IN AREAS OF THEIR OWN COMPETENCE. IF ANY PORTION OF THE PROCESS OR CRITERIA FALLS OUTSIDE OF YOUR AREA OF COMPETENCE, PLEASE CONSULT WITH A REGISTERED ENGINEER.

SITE CONDITIONS

THE SITE MUST BE ACCESSIBLE TO LARGE, HEAVY TRUCKS.

THE SITE MUST BE FREE OF ITEMS LIKE TREES, OVERHEAD WIRES & BUILDINGS THAT COULD INTERFERE WITH ACCESS TO THE EXCAVATION. PLACEMENT OF THE TANK REQUIRES THE BACK OF OUR DELIVERY TRUCKS TO BE ON STABLE GROUND AND WITHIN THE FOLLOWING REACHES:

- MONORAIL TRUCK DELIVERIES: 7'-6" FROM THE BACK OF OUR MONORAIL TRUCK ON STABLE GROUND TO THE CENTER OF THE EXCAVATION
 - BOOM TRUCK DELIVERIES: 12'-0" FROM THE BACK OF OUR BOOM TRUCK ON STABLE GROUND TO THE CENTER OF THE EXCAVATION
- ALL TANKS MUST SET DIRECTLY OFF THE BACK OF OUR TRUCKS. EACH DELIVERY TRUCK IS APPROXIMATELY 45 FT. LONG AND 14 FT. HIGH.

EXCAVATION

EXCAVATION SHOULD ALLOW FOR APPROXIMATELY 8" (MINIMUM) TO 18" OF CLEARANCE ON EACH SIDE OF THE TANK TO ALLOW FOR REMOVAL OF OUR LIFTING APPARATUS. THIS MAY VARY WITH SOIL CONDITIONS. NEVER ENTER AN UNSAFE EXCAVATION.

ONCE THE EXCAVATION HAS BEEN COMPLETED AND THE OUTSIDE PERIMETER OF THE TANK HAS BEEN LOCATED AND LEVELLED, IT IS NECESSARY THAT THE EXCAVATION DIRECTLY BELOW THE TANK SLOPES DOWNWARD UNIFORMLY APPROXIMATELY 1" - 1½" FROM THE OUTSIDE PERIMETER OF THE TANK TO THE CENTER OF THE TANK TO PREVENT UNDUE PRESSURE AT THE CENTER OF THE TANK FLOOR.

BEDDING

PROPER USE OF BEDDING MATERIAL IS IMPORTANT TO ENSURE SERVICE LIFE OF THE TANK. BEDDING AND SOIL BENEATH THE TANK MUST BE STABLE AND CAPABLE OF BEARING THE WEIGHT OF THE TANK, ITS CONTENTS AND THE SOIL AND OTHER ITEMS COVERING THE TOP OF THE TANK. BEDDING

MATERIALS SHALL HAVE THE ABILITY TO 100% PASS THROUGH A ¾" SCREEN. BEDDING THICKNESS SHALL BE A MINIMUM OF 4" COMPACTED. THICKNESS MAY NEED TO BE INCREASED DEPENDANT UPON EXISTING SOIL CONDITIONS. IT IS THE EXCAVATOR/INSTALLER'S RESPONSIBILITY TO HAVE A SOIL ANALYSIS AND ENGINEERING DONE IF THEY ARE UNSURE IF THE SOIL IS SUITABLE. IT IS CRITICAL THAT THE BEDDING DOES NOT HAVE ANY HIGH SPOTS IN THE CENTER THAT WOULD CAUSE UNDUE STRESS AT ANY POINT ON THE TANK FLOOR.

JOINT SEALANT (IF USED)

JOINT SURFACE NEEDS TO BE CLEAN AND SEALANT NEEDS TO BE PLACED ACCORDING TO MANUFACTURERS RECOMMENDATIONS. IT IS IMPERATIVE TO OVERLAP THE JOINTS OF THE SEALANT, ONE DIRECTLY ON TOP OF THE OTHER AT LEAST 1½" (NOT SIDE BY SIDE) TO ENSURE A WATER TIGHT SEAL.

WATER TABLE

TANKS PLACED WHERE WATER LEVELS CAN POTENTIALLY BE HIGHER THAN THE ELEVATION OF THE TANK FLOOR OR TOP, MUST BE BROUGHT TO THE ATTENTION OF VAUGHN CONCRETE PRODUCTS, INC. PRIOR TO ORDERING THE TANK. ADDITIONAL INSTALLATION INSTRUCTIONS SUCH AS BALLAST AND COATING MAY BE REQUIRED.

WATER LEAK OR VACUUM TESTING

TO ENSURE THAT THE TANK IS WATER TIGHT, IT MUST BE WATER OR VACUUM TESTED PRIOR TO BACKFILL.

BACKFILL MATERIAL

THE SIDE WALLS OF TANKS REQUIRE DRY BACKFILL MATERIALS THAT HAVE THE ABILITY TO 100% PASS THROUGH A 2" SCREEN. A MINIMUM OF 8" OF SUITABLE BACKFILL MATERIAL ON ALL SIDES IS REQUIRED FROM THE BOTTOM TO THE TOP OF THE TANK. EXPANSIVE BACKFILL MATERIAL SHOULD NOT BE USED. BACKFILL MATERIAL SHALL BE PLACED WITH A BACKHOE OR OTHER MEANS THAT WILL AVOID IMPACT LOADS ON THE SIDE WALLS OF THE TANK. MINIMAL COMPACTION OF BACKFILL MATERIAL IS PERMITTED ON THE SIDE WALLS OF THE TANK. CARE MUST BE USED AS COMPACTING OR WHEEL COMPACTING CAN CAUSE EXCESSIVE PRESSURES TO THE SIDE WALLS OF THE TANK AND CAN CAUSE FAILURE. IF MORE THAN 85% PROCTOR COMPACTION IS REQUIRED, USE ¾" OR ¾" GRAVEL OR OTHER SELF-COMPACTING MATERIAL FOR YOUR BACKFILL MATERIAL.

COVER MATERIAL

COVER MATERIAL SHALL BE DRY SOIL, SAND OR GRAVEL MATERIAL THAT HAS THE ABILITY TO 100% PASS THROUGH A 2" SCREEN. CARE MUST BE USED AS COMPACTING OR WHEEL COMPACTING CAN CAUSE EXCESSIVE PRESSURES TO THE TOP OF THE TANK AND CAN CAUSE FAILURE. COVER MATERIALS SHALL BE MOUNDED OVER THE TANK AND AROUND RISERS TO DIRECT RUN-OFF AWAY FROM BOTH.

PLEASE CONSULT WITH A VAUGHN CONCRETE PRODUCTS REPRESENTATIVE WITH ANY QUESTIONS OR CONCERNS TOLL FREE @ 1-877-827-8255

VISIT US ON THE WEB @ www.vaughnconcreteproducts.com

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concrete products, inc.**

INSTALLATION GUIDELINES-4 INCH.DWG
DATE CREATED: 12/07
DATE MODIFIED: 12/08

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www.vaughnconcreteproducts.com

PRECAST CONCRETE STRUCTURE WITH 6" OR THICKER FLOOR INSTALLATION GUIDELINES/INSTRUCTIONS

THE ITEMS LISTED HERE ARE BASIC GUIDELINES/INSTRUCTIONS. THE EXCAVATOR/INSTALLER MUST PERFORM THE WORK, BUT ONLY IN AREAS OF THEIR OWN COMPETENCE. IF ANY PORTION OF THE PROCESS OR CRITERIA FALLS OUTSIDE OF YOUR AREA OF COMPETENCE, PLEASE CONSULT WITH A REGISTERED ENGINEER.

SITE CONDITIONS

THE SITE MUST BE ACCESSIBLE TO LARGE, HEAVY TRUCKS.

THE SITE MUST BE FREE OF ITEMS LIKE TREES, OVERHEAD WIRES & BUILDINGS THAT COULD INTERFERE WITH ACCESS TO THE EXCAVATION. PLACEMENT OF THE STRUCTURE REQUIRES THE BACK OF OUR DELIVERY TRUCKS TO BE ON STABLE GROUND AND WITHIN THE FOLLOWING REACHES:

- MONORAIL TRUCK DELIVERIES: 7'-6" FROM THE BACK OF OUR MONORAIL TRUCK ON STABLE GROUND TO THE CENTER OF THE EXCAVATION

- BOOM TRUCK DELIVERIES: 12'-0" FROM THE BACK OF OUR BOOM TRUCK ON STABLE GROUND TO THE CENTER OF THE EXCAVATION

ALL STRUCTURES MUST SET DIRECTLY OFF THE BACK OF OUR TRUCKS. EACH DELIVERY TRUCK IS APPROXIMATELY 45 FT. LONG AND 14 FT. HIGH.

EXCAVATION

EXCAVATION SHOULD ALLOW FOR APPROXIMATELY 8" (MINIMUM) TO 18" OF CLEARANCE ON EACH SIDE OF THE STRUCTURE TO ALLOW FOR REMOVAL OF OUR LIFTING APPARATUS. THIS MAY VARY WITH SOIL CONDITIONS. NEVER ENTER AN UNSAFE EXCAVATION.

BEDDING

PROPER USE OF BEDDING MATERIAL IS IMPORTANT TO ENSURE SERVICE LIFE OF THE STRUCTURE. BEDDING AND SOIL BENEATH THE STRUCTURE MUST BE STABLE AND CAPABLE OF BEARING THE WEIGHT OF THE STRUCTURE, ITS CONTENTS AND THE SOIL AND OTHER ITEMS COVERING THE TOP OF THE STRUCTURE. BEDDING MATERIALS SHALL HAVE THE ABILITY TO 100% PASS THROUGH A $\frac{3}{4}$ " SCREEN. BEDDING THICKNESS SHALL BE A MINIMUM OF 4" COMPACTED. THICKNESS MAY NEED TO BE INCREASED DEPENDANT UPON EXISTING SOIL CONDITIONS. IT IS THE EXCAVATOR/INSTALLER'S RESPONSIBILITY TO HAVE A SOIL ANALYSIS AND ENGINEERING DONE IF THEY ARE UNSURE IF THE SOIL IS SUITABLE. IT IS CRITICAL THAT THE BEDDING DOES NOT HAVE ANY HIGH SPOTS IN THE CENTER THAT WOULD CAUSE UNDUE STRESS AT ANY POINT ON THE STRUCTURE FLOOR.

JOINT SEALANT (IF USED)

JOINT SURFACE NEEDS TO BE CLEAN AND SEALANT NEEDS TO BE PLACED ACCORDING TO MANUFACTURERS RECOMMENDATIONS. IT IS IMPERATIVE TO OVERLAP THE JOINTS OF THE SEALANT, ONE DIRECTLY ON TOP OF THE OTHER AT LEAST 1 $\frac{1}{2}$ " (NOT SIDE BY SIDE) TO ENSURE A WATER TIGHT SEAL.

WATER TABLE

STRUCTURES PLACED WHERE WATER LEVELS CAN POTENTIALLY BE HIGHER THAN THE ELEVATION OF THE STRUCTURE FLOOR OR TOP, MUST BE BROUGHT TO THE ATTENTION OF VAUGHN CONCRETE PRODUCTS, INC. PRIOR TO ORDERING THE STRUCTURE.

ADDITIONAL INSTALLATION INSTRUCTIONS SUCH AS BALLAST AND COATING MAY BE REQUIRED.

WATER LEAK OR VACUUM TESTING

TO ENSURE THAT THE STRUCTURE IS WATER TIGHT, IT MUST BE WATER OR VACUUM TESTED PRIOR TO BACKFILL.

BACKFILL MATERIAL

THE SIDE WALLS OF STRUCTURES REQUIRE DRY BACKFILL MATERIALS THAT HAVE THE ABILITY TO 100% PASS THROUGH A 2" SCREEN. A MINIMUM OF 8" OF SUITABLE BACKFILL MATERIAL ON ALL SIDES IS REQUIRED FROM THE BOTTOM TO THE TOP OF THE STRUCTURE. EXPANSIVE BACKFILL MATERIAL SHOULD NOT BE USED. BACKFILL MATERIAL SHALL BE PLACED WITH A BACKHOE OR OTHER MEANS THAT WILL AVOID IMPACT LOADS ON THE SIDE WALLS OF THE STRUCTURE. MINIMAL COMPACTION OF BACKFILL MATERIAL IS PERMITTED ON THE SIDE WALLS OF THE STRUCTURE. CARE MUST BE USED AS COMPACTION OR WHEEL COMPACTION CAN CAUSE EXCESSIVE PRESSURES TO THE SIDE WALLS OF THE STRUCTURE AND CAN CAUSE FAILURE. IF MORE THAN 85% PROCTOR COMPACTION IS REQUIRED, USE $\frac{3}{8}$ " OR $\frac{1}{2}$ " GRAVEL OR OTHER SELF-COMPACTING MATERIAL FOR YOUR BACKFILL MATERIAL.

COVER MATERIAL

COVER MATERIAL SHALL BE DRY SOIL, SAND OR GRAVEL MATERIAL THAT HAS THE ABILITY TO 100% PASS THROUGH A 2" SCREEN. CARE MUST BE USED AS COMPACTION OR WHEEL COMPACTION CAN CAUSE EXCESSIVE PRESSURES TO THE TOP OF THE STRUCTURE AND CAN CAUSE FAILURE. COVER MATERIALS SHALL BE MOUNDED OVER THE STRUCTURE AND AROUND RISERS TO DIRECT RUN-OFF AWAY FROM BOTH.

PLEASE CONSULT WITH A VAUGHN CONCRETE PRODUCTS REPRESENTATIVE WITH ANY QUESTIONS OR CONCERNS TOLL FREE @ 1-877-827-8255

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concrete products, inc.**

INSTALLATION GUIDELINES-6 INCH.DWG
DATE CREATED: 12/08

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SAMPLE SPECIFICATION FOR PRECAST CONCRETE LIFT STATIONS

Precast Concrete Lift Stations are to be manufactured by a firm, which has a minimum of 5 years successful experience in fabrication of Precast Concrete units such as those required on this project. Precast Concrete Lift Stations to be manufactured by Vaughn Concrete Products, Inc., (877) 827-8255, or a pre-approved comparable manufacturer. For pre-approval all other manufacturers must present complete shop drawings and submittals for verification of compliance with design criteria along with a list of several completed projects using similar type products. The list of completed projects shall include project name, location, type and size of precast structure provided and a contact name with a phone number of an individual familiar with the project. This must be provided to the design engineer at least 21 days prior to project bid date. A full five days must be given to the design engineer for submittal review. Supplier approval must be obtained 14 days prior to bid opening. No late approvals will be allowed. A plant inspection will (may) also be required for production facility inspection, similar product inspection and to review record keeping for material certification. The submittal information must be supplied in accordance with requirements of the project specifications and must address compliance with the items listed below.

Precast Concrete Lift Stations shall be designed and manufactured in accordance with the requirements of ASTM C-857 and C-858 latest revision. The precast manufacturer shall submit shop drawings, structural design calculations performed by a registered engineer and material certifications as follows to verify all products used in manufacturing meet the design requirements:

REINFORCING BARS	ASTM A-615 or A-706
AGGREGATES	ASTM C-33
CEMENT	ASTM C-150
JOINT SEALANT (IF USED)	ASTM C-990

Production of precast units shall not begin until the design engineer and/or purchaser reviews and approves all submittals. Compressive strength test results for the precast units must be supplied prior to their delivery to verify that the strength requirements were met. The compressive strength tests must be done in accordance with ASTM C-39.

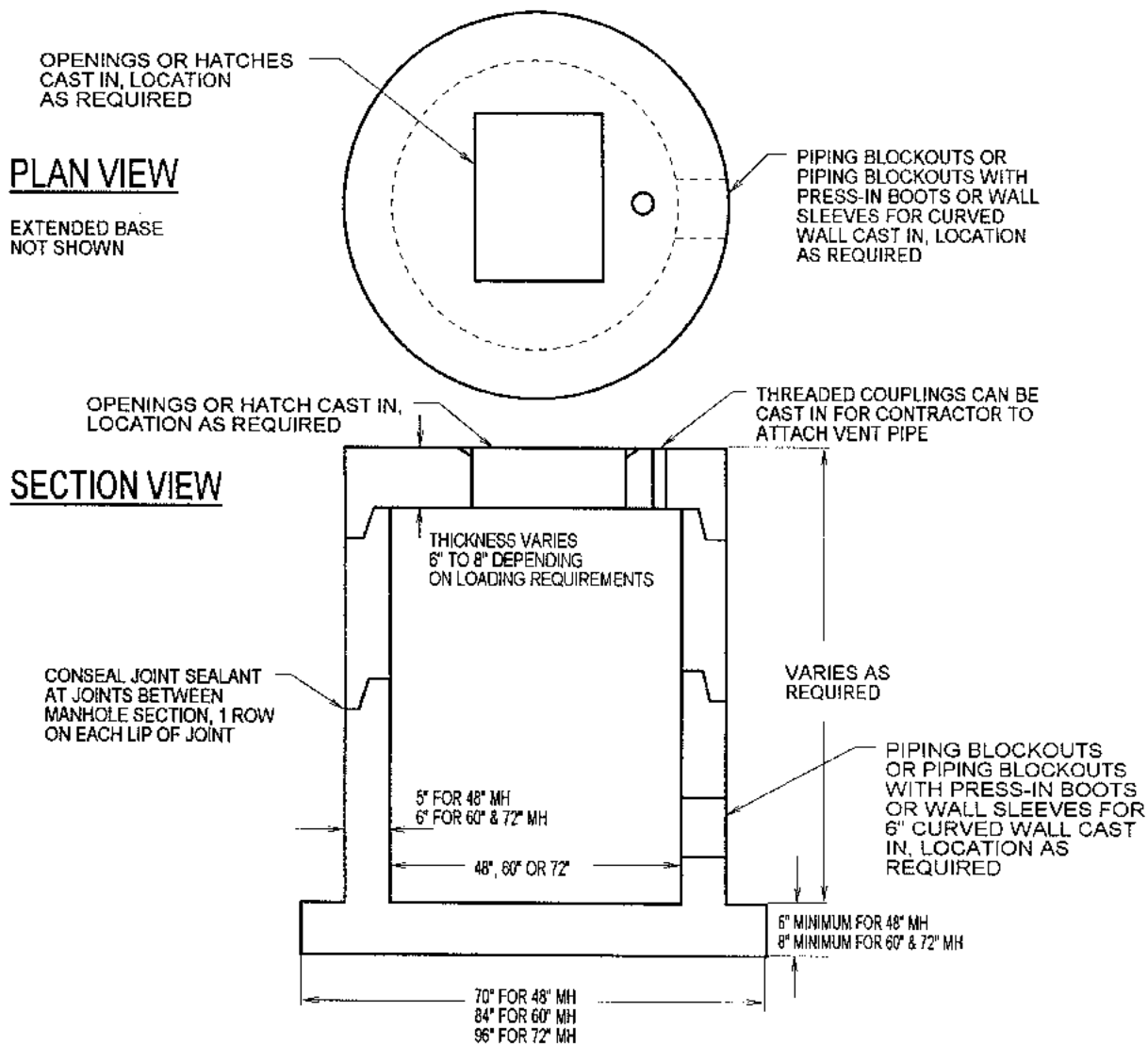
Designer is to specify:

Interior Width, Length and Height
Any Special Configurations (Piping Sizes and Locations)
Loading Requirements: Light, Medium or Heavy Traffic
Any Other Requirements

PRECAST CONCRETE LIFT STATION

48", 60" OR 72" INSIDE DIAMETER

USED FOR SMALL CAPACITY APPLICATIONS



CONCRETE - 4,000 P.S.I. (MINIMUM)

MANUFACTURED TO ASTM C-478 FOR AASHTO HS-20-44 LOADINGS

MONOLITHIC PRECAST BASE REINFORCED WITH #4 @ 12" O.C.E.W.
2" CLEARANCE OFF TOP FACE

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY
DRAWING IS NOT TO SCALE

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11/97

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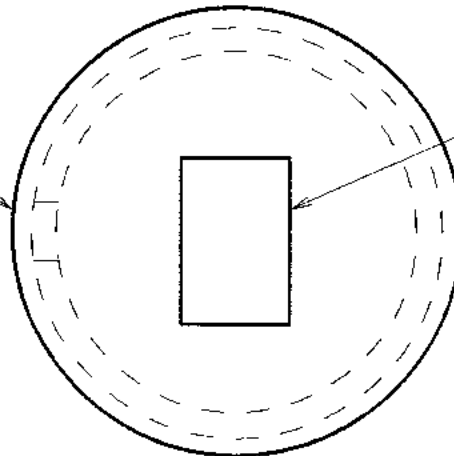
PRECAST CONCRETE LIFT STATION

90" INSIDE DIAMETER

USED FOR MEDIUM CAPACITY APPLICATIONS

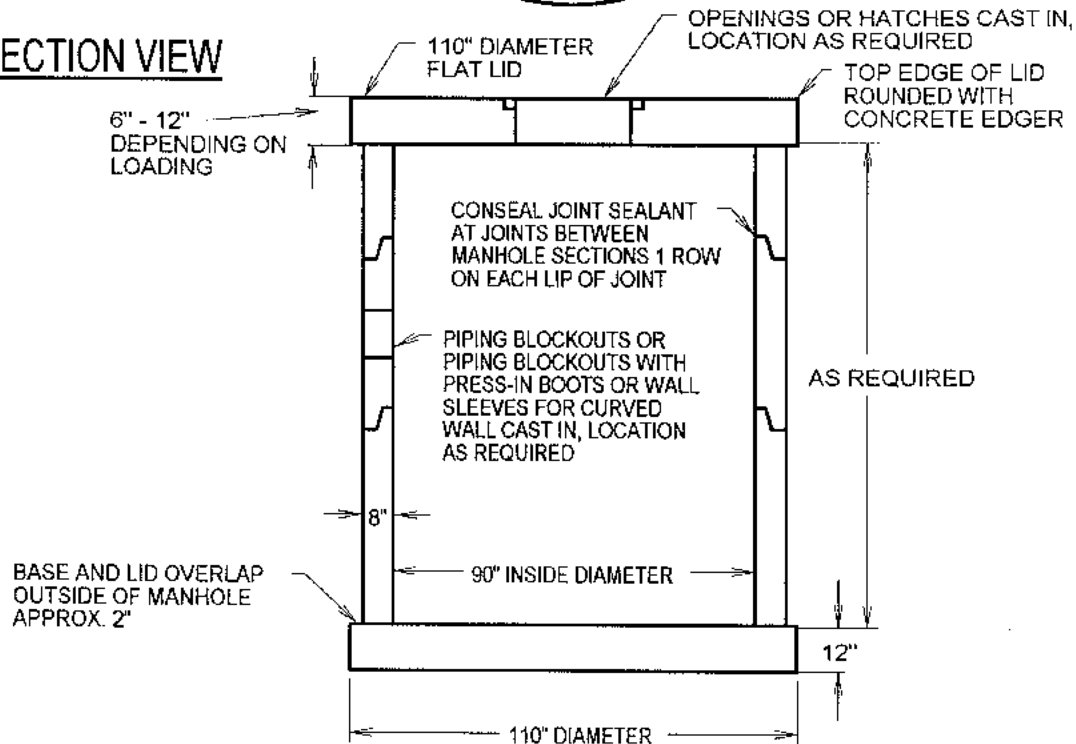
PLAN VIEW

PIPING BLOCKOUTS
OR PIPING BLOCKOUTS
WITH PRESS-IN BOOTS
OR WALL SLEEVES FOR
CURVED WALL CAST-IN,
LOCATION AS REQUIRED



ACCESS OPENING
OR HATCHES CAST
IN, LOCATION AS
REQUIRED

SECTION VIEW



MONOLITHIC PRECAST BASE, 110" DIAMETER (WHEN SUITABLE)
REINFORCED W/ #5 @ 12" O.C.E.W., 2" OFF TOP FACE

CONCRETE - 4000 P.S.I. (MINIMUM)
MANUFACTURED TO ASTM C-478 FOR AASHTO HS-20-44 LOADINGS

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY
DRAWING IS NOT TO SCALE

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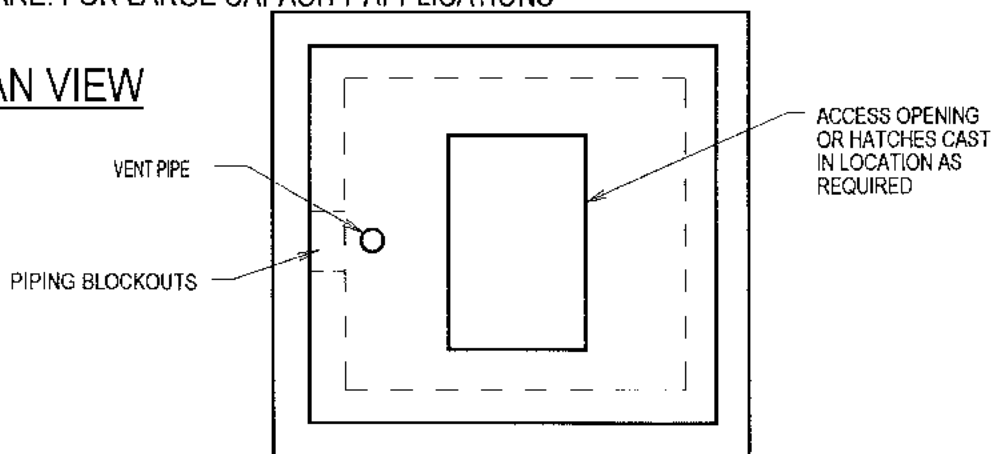
11/97

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PRECAST CONCRETE LIFT STATION

10' WIDE X 10' LONG X UP TO 32' HIGH INSIDE DIMENSIONS
SQUARE: FOR LARGE CAPACITY APPLICATIONS

PLAN VIEW

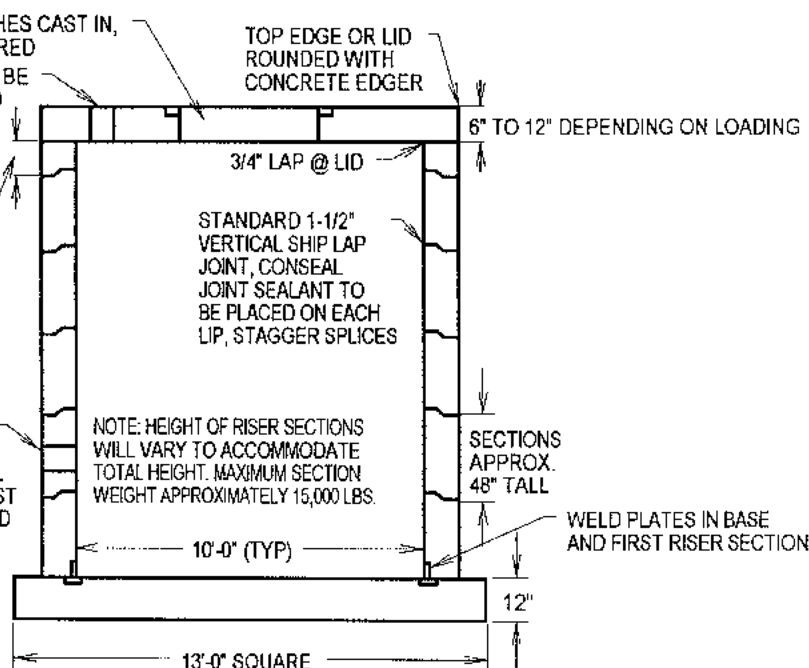


OPENINGS OR HATCHES CAST IN, LOCATION AS REQUIRED
THREADED COUPLINGS CAN BE CAST IN FOR CONTRACTOR TO ATTACH VENT PIPE
TOP EDGE OR LID ROUNDED WITH CONCRETE EDGER
6" TO 12" DEPENDING ON LOADING

SECTION HEIGHTS CAN BE VARIED TO ACCOMMODATE PIPING PENETRATIONS AND TO ACHIEVE DESIRED HEIGHT

SECTION VIEW

PIPING BLOCKOUTS OR PIPING BLOCKOUTS WITH PRESS-IN BOOTS OR WALL SLEEVES FOR 6" WALL CAST IN, LOCATION AS REQUIRED

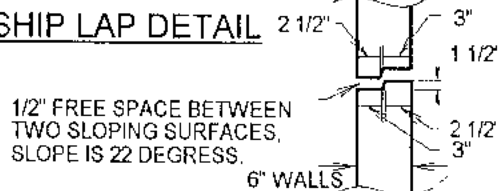


PRECAST BASE USED WHEN SUITABLE
PRECAST BASE SIZE AND THICKNESS CAN BE MODIFIED AS REQUIRED
PRECAST BASE AS SHOWN WEIGHS APPROXIMATELY 26,000 LBS.
TOP WEIGHS APPROXIMATELY 18,500 LBS. IF 12" THICK, 10,000 LBS. IF 6" THICK
CONCRETE - 5000 P.S.I., REINFORCING TO BE GRADE 60 MINIMUM.
SUITABLE FOR HS-20-44 LOADINGS IF REQUIRED
STRUCTURAL DESIGN IS BASED ON 45 PCF OR 62.4 PCF EQUIVALENT FLUID PRESSURES
STRUCTURAL DESIGN INFORMATION PROVIDED WITH PRODUCT SUBMITTALS
WELD PLATES PROVIDED IN PRECAST BASE AND CORNERS
OF FIRST RISER SECTION TO ALLOW FIELD WELDING TO PROVIDE RIGID CONNECTION
BETWEEN BASE AND RISER.

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY
DRAWING IS NOT TO SCALE

NOTE: BACKFILL MATERIAL TO BE SUITABLE, NONEXPANSIVE TYPE MATERIAL. BACKFILL IS TO BE EVENLY PLACED ON ALL SIDES DURING BACKFILL OPERATION. CARE IS TO BE TAKEN NOT TO EXCEED DESIGN LOADS DURING COMPACTION.

SHIP LAP DETAIL



11/97

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Precast Concrete MANHOLES



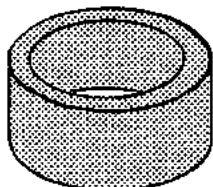
**Use
Cast-iron Manhole Cover**

Can be used with or without
cast iron adjusting shims.

Terminology of Parts used in assembling Manholes

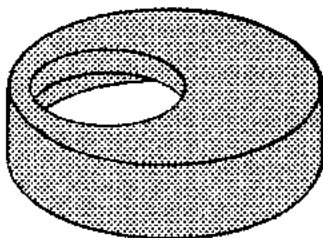
or

Concrete Access Lid



Manhole Riser (24" ID)

Available in heights 2" to 12"

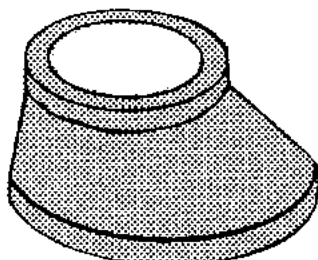


Traffic Lid (flat top)

for use with manhole sections
without cone section.

(cone use optional)

For steps and other
accessories see "Vault
Accessories" and
"Vault Option" sheets



**Eccentric Cone Section
w/ 24" Diameter Access
Heights**

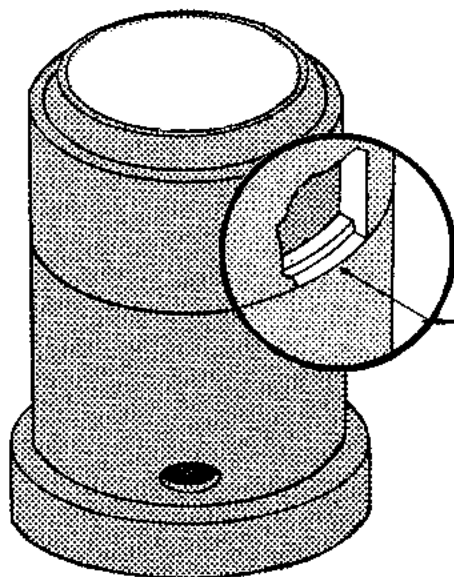
**24", 32" or 36" (48" ID)
36" (60" ID)**

Inside Diameter Sizes

48" - 60" - 72" - 90"

48" & 60" sections available in 1', 2', 3' or 4' heights

72" & 90" sections
are manufactured to achieve desired height



Holes cast in sections
for steps - 12" apart.

Tongue-and-groove joints

Special Order sections with
piping holes, gaskets

bottom sections available with
extended bases

**vaughn
concrete products, inc.**

UPDATED 11/97

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PRECAST CONCRETE

STANDARD MANHOLE

MANUFACTURED TO ASTM C-478

MANHOLE PRICING:**ECCENTRIC CONE**

(IF ORDERED SEPARATELY)

FOR 48" I.D. MANHOLE:

24" TALL - \$140.00 EACH

32" TALL - \$210.00 EACH

36" TALL - \$210.00 EACH

FOR 60" I.D. MANHOLE:

36" TALL - \$275.00 EACH

FOR 72" I.D. MANHOLE:

36" TALL - \$480.00 EACH

CAST IRON RING & COVER

STANDARD 24" DIAMETER X 4" TALL - \$200.00 EACH

STANDARD 24" DIAMETER X 8" TALL - \$328.00 EACH

24" I.D. MANHOLE RISERS

2" TALL - \$27.00 EACH; 3", 4" OR 6" TALL - \$35.00 EACH; 8" OR 12" TALL - \$47.00 EACH

TRAFFIC LID (FLAT TOP)

(PROVIDED WITH TONGUE & GROOVE)

FOR 48" I.D. MANHOLE - \$176.00 EACH

FOR 60" I.D. MANHOLE - \$270.00 EACH

FOR 72" I.D. MANHOLE - \$320.00 EACH

FOR 90" I.D. MANHOLE - 8" THICK \$950.00 EA.; 12" THICK \$1,100.00 EA.

PRICE PER VERTICAL FOOT

(PROVIDED WITH STEPS & SEALANT**)

FOR 48" I.D. MANHOLE - \$64.00/FT.

FOR 60" I.D. MANHOLE - \$90.00/FT.

FOR 72" I.D. MANHOLE - \$150.00/FT.

FOR 90" I.D. MANHOLE - \$310.00/FT.

(**INCLUDES 1 ROW JOINT SEALANT/JOINT OF MANHOLE USING TALL SECTIONS OR ADDITIONAL SEALANT IS REQUIRED @ \$10.00/ROLL; 14.5FT./ROLL)

PIPING BLOCKOUTS

PIPE SIZE(S)	BLOCKOUT	BLOCKOUT WITH PRESS-IN GASKET
2", 4", 6" OR 8"	\$25.00 EACH	\$60.00 EACH
10"	\$25.00 EACH	\$70.00 EACH
12"	\$25.00 EACH	\$75.00 EACH

STANDARD PRECAST BASES**

(USUALLY MONOLITHIC WITH FIRST RISER)

FOR 48" I.D. MANHOLE - 70" DIAMETER X 6" THICK - \$176.00 EACH

FOR 60" I.D. MANHOLE - 84" DIAMETER X 8" THICK - \$270.00 EACH

FOR 72" I.D. MANHOLE - 96" DIAMETER X 8" THICK - \$320.00 EACH

FOR 90" I.D. MANHOLE - 110" DIAMETER X 8" THICK - \$1,050.00 EACH

FOR 90" I.D. MANHOLE - 110" DIAMETER X 12" THICK - \$1,100.00 EACH

**OTHER BASE THICKNESSES AVAILABLE BY SPECIAL ORDER

PRECAST GROUT INVERTS FOR 48" I.D. MANHOLES

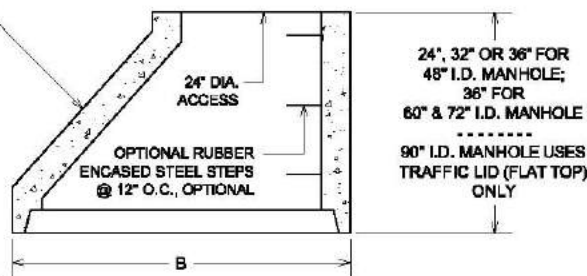
# OF PIPES	PIPE SIZE		
	4", 6" OR 8"	10"	12"
1 OR 2	\$127.00	\$160.00	\$182.00
3	\$138.00	\$182.00	\$204.00
4	\$149.00	\$204.00	\$226.00

FOR 60" I.D. MANHOLES; ADD \$22.00/PRICE - FOR 72" I.D. MANHOLES; ADD \$44.00/PRICE
(INVERTS PROVIDED TO 1/2 THE HEIGHT OF THE PIPING USED)**NOTES:**

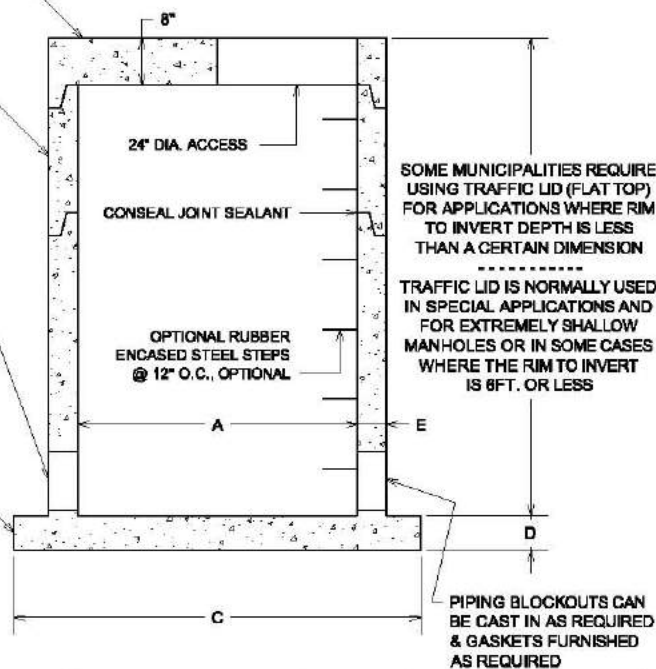
- ADDITIONAL COST FOR DELIVERY

- SEE WEIGHT & CAPACITY CHART FOR PRODUCT WEIGHTS

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY



ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE



MANHOLE DIMENSIONS				
A	B	C	D	E
INSIDE DIAMETER	OUTSIDE DIAMETER	BASE DIAMETER	BASE THICKNESS	WALL THICKNESS
48"	58"	70"	6"	5"
60"	72"	84"	8"	6"
72"	84"	96"	8"	6"
90"	106"	110"	8" OR 12"	8"

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE

DRAWING NOT TO SCALE

STANDARD MANHOLE PRICING - CONT'D
DATE CREATED: 11/03
UPDATED: 12/03

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PRECAST CONCRETE

STANDARD MANHOLE

MANUFACTURED TO ASTM C-478

MANHOLE PRICING:**ECCENTRIC CONE (IF ORDERED SEPARATELY)**

FOR 48" I.D. MANHOLE: 18" TALL - \$140.00 EACH
 24" TALL - \$140.00 EACH
 32" TALL - \$210.00 EACH
 36" TALL - \$210.00 EACH
 48" TALL - \$280.00 EACH

FOR 60" I.D. MANHOLE: 36" TALL - \$275.00 EACH
 FOR 72" I.D. MANHOLE: 36" TALL - \$480.00 EACH

CAST IRON RING & COVER

STANDARD #40 -- \$200.00 EACH

24" I.D. MANHOLE RISERS

2" TALL - \$27.00 EACH; 3", 4" OR 6" TALL - \$35.00 EACH
 8" OR 12" TALL - \$47.00 EACH

TRAFFIC LID (FLAT TOP)

(PROVIDED WITH TONGUE & GROOVE)

FOR 48" I.D. MANHOLE - \$175.00 EACH

ADD \$14.00 FOR LIMESTONE (LS) AGGREGATE

FOR 60" I.D. MANHOLE - \$270.00 EACH

ADD \$18.00 FOR LIMESTONE (LS) AGGREGATE

FOR 72" I.D. MANHOLE - \$320.00 EACH; ADD \$28.00 FOR LS

FOR 90" I.D. MANHOLE - 8" THICK \$950.00 EACH; ADD \$50.00 FOR LS

FOR 90" I.D. MANHOLE - 12" THICK \$1,100.00 EACH; ADD \$50.00 FOR LS

PRICE PER VERTICAL FOOT

SIZE	WITH SEALANT**	WITH STEPS & SEALANT**
48" I.D.	\$60.00/FT.	\$64.00/FT.
60" I.D.	\$86.00/FT.	\$90.00/FT.
72" I.D.	\$145.00/FT.	\$150.00/FT.
90" I.D.	\$310.00/FT.	\$310.00/FT.

ADD \$6.00/FT. FOR LIMESTONE (LS) AGGREGATE ON 48" I.D. MANHOLES

ADD \$8.00/FT. FOR LIMESTONE (LS) AGGREGATE ON 60" I.D. MANHOLES

ADD \$10.00/FT. FOR LIMESTONE (LS) AGGREGATE ON 72" I.D. MANHOLES

ADD \$25.00/FT. FOR LIMESTONE (LS) AGGREGATE ON 90" I.D. MANHOLES

(**INCLUDES 1 ROW JOINT SEALANT/Joint OF MANHOLE USING TALL

SECTIONS OR ADDITIONAL SEALANT IS REQUIRED @ \$10.00/ROLL; 14.5FT./ROLL)

PIPING BLOCKOUTS

PIPE SIZE(S)	BLOCKOUT	BLOCKOUT WITH PRESS-IN GASKET
2", 4", 6" OR 8"	\$25.00 EACH	\$60.00 EACH
10"	\$25.00 EACH	\$70.00 EACH
12"	\$25.00 EACH	\$75.00 EACH

STANDARD PRECAST BASES**

(USUALLY MONOLITHIC WITH FIRST RISER)

FOR 48" I.D. MANHOLE - 70" DIA. X 6" THICK - \$175.00 EA. + \$14.00 FOR LS

FOR 60" I.D. MANHOLE - 84" DIA. X 8" THICK - \$270.00 EA. + \$18.00 FOR LS

FOR 72" I.D. MANHOLE - 96" DIA. X 8" THICK - \$320.00 EA. + \$28.00 FOR LS

FOR 90" I.D. MANHOLE - 110" DIA. X 8" THICK - \$1,050.00 EA. + \$50.00 FOR LS

FOR 90" I.D. MANHOLE - 110" DIA. X 12" THICK - \$1,100.00 EA. + \$50.00 FOR LS

**OTHER BASE THICKNESSES AVAILABLE BY SPECIAL ORDER

PRECAST GROUT INVERTS FOR 48" I.D. MANHOLES

# OF PIPES	4", 6" OR 8" PIPE	10" PIPE	12" PIPE
1 OR 2	\$127.00	\$180.00	\$182.00
3	\$138.00	\$182.00	\$204.00
4	\$149.00	\$204.00	\$226.00

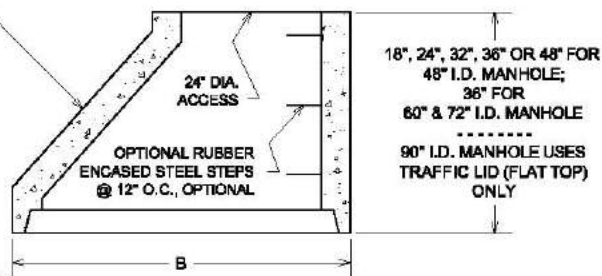
FOR 60" I.D. MANHOLES; ADD \$22.00/PRICE - FOR 72" I.D. MANHOLES; ADD \$44.00/PRICE
 (INVERTS PROVIDED TO 1/2 THE HEIGHT OF THE PIPING USED)

NOTES:

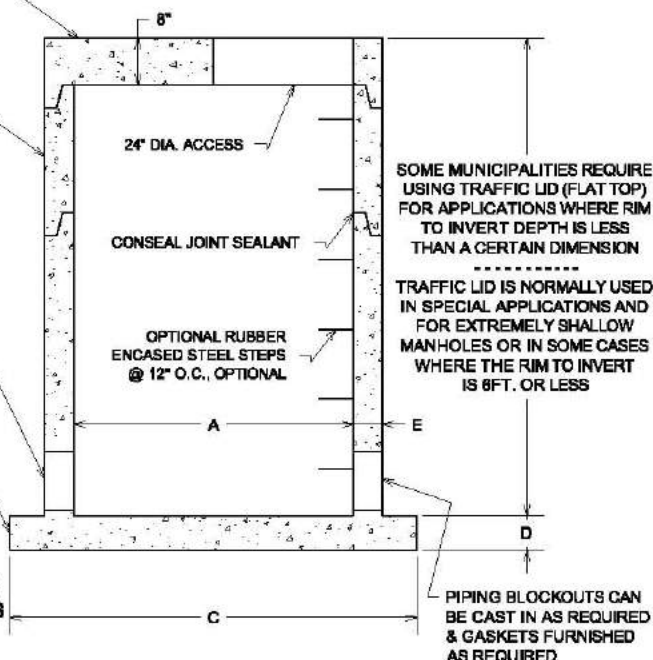
- ADDITIONAL COST FOR DELIVERY

- SEE WEIGHT & CAPACITY CHART FOR PRODUCT WEIGHTS

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY



ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE



MANHOLE DIMENSIONS				
A	B	C	D	E
INSIDE DIAMETER	OUTSIDE DIAMETER	BASE DIAMETER	BASE THICKNESS	WALL THICKNESS
48"	58"	70"	6"	5"
60"	72"	84"	8"	6"
72"	84"	96"	8"	6"
90"	106"	110"	8" OR 12"	8"

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE

DRAWING NOT TO SCALE

STANDARD MANHOLE PRICING-TXZNG
 DATE CREATED: 11/03
 UPDATED: 12/06

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concrete products, inc.

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MANHOLE PRICING (30" ACCESS):**ECCENTRIC CONE (IF ORDERED SEPARATELY)****FOR 48" I.D. MANHOLE:**

20" TALL - \$180.00 EACH
 24" TALL - \$180.00 EACH
 30" TALL - \$250.00 EACH
 32" TALL - \$250.00 EACH
 36" TALL - \$250.00 EACH

CAST IRON RING & COVER

30" RING & COVER - \$480.00 EACH

30" I.D. MANHOLE RISERS

2" TALL - \$48.00 EACH; 3", 4" OR 6" TALL - \$54.00 EACH
 8" TALL - \$64.00 EACH; 12" TALL - \$76.00 EACH

TRAFFIC LID (FLAT TOP)

(PROVIDED WITH TONGUE & GROOVE)

FOR 48" I.D. MANHOLE - \$215.00 EACH

ADD \$14.00 FOR LIMESTONE (LS) AGGREGATE

FOR 60" I.D. MANHOLE - \$310.00 EACH

ADD \$18.00 FOR LIMESTONE (LS) AGGREGATE

FOR 72" I.D. MANHOLE - \$360.00 EACH; ADD \$28.00 FOR LS

FOR 90" I.D. MANHOLE - 8" THICK \$950.00 EACH; ADD \$50.00 FOR LS

FOR 90" I.D. MANHOLE - 12" THICK \$1,100.00 EACH; ADD \$50.00 FOR LS

PRICE PER VERTICAL FOOT

SIZE	WITH SEALANT**	WITH STEPS & SEALANT**
48" I.D.	\$60.00/FT.	\$64.00/FT.
60" I.D.	\$86.00/FT.	\$90.00/FT.
72" I.D.	\$145.00/FT.	\$150.00/FT.
90" I.D.	\$310.00/FT.	\$310.00/FT.

ADD \$6.00/FT. FOR LIMESTONE (LS) AGGREGATE ON 48" I.D. MANHOLES

ADD \$8.00/FT. FOR LIMESTONE (LS) AGGREGATE ON 60" I.D. MANHOLES

ADD \$10.00/FT. FOR LIMESTONE (LS) AGGREGATE ON 72" I.D. MANHOLES

ADD \$25.00/FT. FOR LIMESTONE (LS) AGGREGATE ON 90" I.D. MANHOLES

(**INCLUDES 1 ROW JOINT SEALANT/JOINT OF MANHOLE USING TALL

SECTIONS OR ADDITIONAL SEALANT IS REQUIRED @ \$10.00/ROLL; 14.5FT./ROLL)

PIPING BLOCKOUTS

PIPE SIZE(S)	BLOCKOUT	BLOCKOUT WITH PRESS-IN GASKET
2", 4", 6" OR 8"	\$25.00 EACH	\$60.00 EACH
10"	\$25.00 EACH	\$70.00 EACH
12"	\$25.00 EACH	\$75.00 EACH

STANDARD PRECAST BASES**

(USUALLY MONOLITHIC WITH FIRST RISER)

FOR 48" I.D. MANHOLE - 70" DIA. X 6" THICK - \$175.00 EA. + \$14.00 FOR LS

FOR 60" I.D. MANHOLE - 84" DIA. X 8" THICK - \$270.00 EA. + \$18.00 FOR LS

FOR 72" I.D. MANHOLE - 96" DIA. X 8" THICK - \$320.00 EA. + \$28.00 FOR LS

FOR 90" I.D. MANHOLE - 110" DIA. X 8" THICK - \$1,050.00 EA. + \$50.00 FOR LS

FOR 90" I.D. MANHOLE - 110" DIA. X 12" THICK - \$1,100.00 EA. + \$50.00 FOR LS

**OTHER BASE THICKNESSES AVAILABLE BY SPECIAL ORDER

PRECAST GROUT INVERTS FOR 48" I.D. MANHOLES

# OF PIPES	4", 6" OR 8" PIPE	10" PIPE	12" PIPE
1 OR 2	\$127.00	\$180.00	\$182.00
3	\$138.00	\$182.00	\$204.00
4	\$149.00	\$204.00	\$226.00

FOR 60" I.D. MANHOLES; ADD \$22.00/PRICE - FOR 72" I.D. MANHOLES; ADD \$44.00/PRICE
 (INVERTS PROVIDED TO 1/2 THE HEIGHT OF THE PIPING USED)

NOTES:

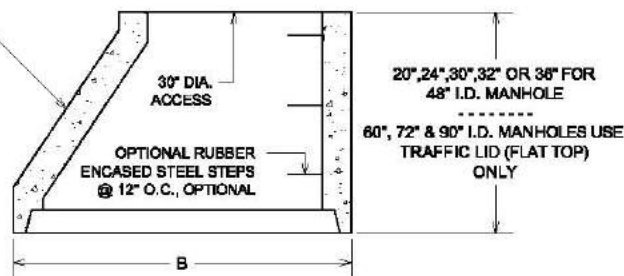
- ADDITIONAL COST FOR DELIVERY

- SEE WEIGHT & CAPACITY CHART FOR PRODUCT WEIGHTS

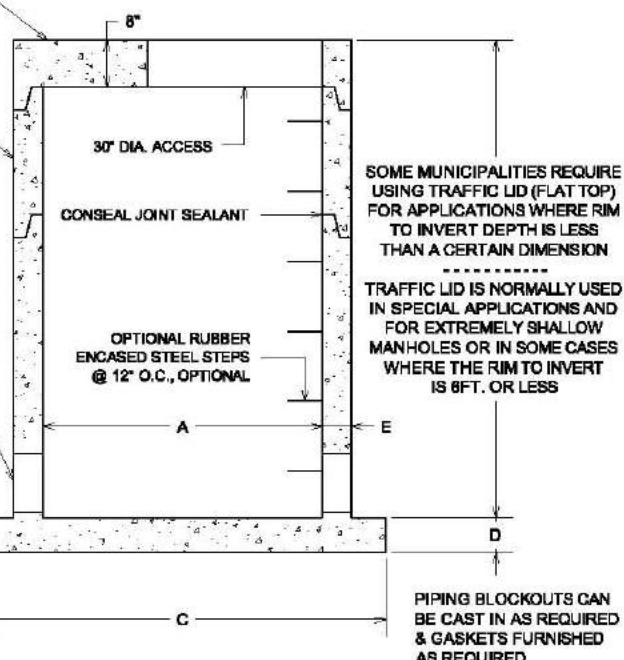
ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

PRECAST CONCRETE STANDARD MANHOLE

MANUFACTURED TO ASTM C-478



ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE



MANHOLE DIMENSIONS				
A	B	C	D	E
INSIDE DIAMETER	OUTSIDE DIAMETER	BASE DIAMETER	BASE THICKNESS	WALL THICKNESS
48"	58"	70"	6"	5"
60"	72"	84"	8"	6"
72"	84"	96"	8"	6"
90"	106"	110"	8" OR 12"	8"

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE

DRAWING NOT TO SCALE

STANDARD MANHOLE PRICING-TX 30 INCH DIA
 DATE CREATED: 12/09

Vaughn concrete products, inc.

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www.vaughnconcreteproducts.com

PRECAST CONCRETE

STANDARD MANHOLE

MANUFACTURED TO ASTM C-478

MANHOLE PRICING:**ECCENTRIC CONE**

(IF ORDERED SEPARATELY)

FOR 48" I.D. MANHOLE:

24" TALL - \$140.00 EACH

32" TALL - \$210.00 EACH

36" TALL - \$210.00 EACH

FOR 60" I.D. MANHOLE:

36" TALL - \$275.00 EACH

FOR 72" I.D. MANHOLE:

36" TALL - \$480.00 EACH

CAST IRON RING & COVER

STANDARD 24" DIAMETER X 4" TALL - \$200.00 EACH

STANDARD 24" DIAMETER X 8" TALL - \$328.00 EACH

24" I.D. MANHOLE RISERS

2" TALL - \$27.00 EACH; 3", 4" OR 6" TALL - \$35.00 EACH; 8" OR 12" TALL - \$47.00 EACH

TRAFFIC LID (FLAT TOP)

(PROVIDED WITH TONGUE & GROOVE)

FOR 48" I.D. MANHOLE - \$176.00 EACH

FOR 60" I.D. MANHOLE - \$270.00 EACH

FOR 72" I.D. MANHOLE - \$320.00 EACH

FOR 90" I.D. MANHOLE - 8" THICK \$950.00 EA.; 12" THICK \$1,100.00 EA.

PRICE PER VERTICAL FOOT

(PROVIDED WITH STEPS & SEALANT**)

FOR 48" I.D. MANHOLE - \$64.00/FT.

FOR 60" I.D. MANHOLE - \$90.00/FT.

FOR 72" I.D. MANHOLE - \$150.00/FT.

FOR 90" I.D. MANHOLE - \$310.00/FT.

(**INCLUDES 1 ROW JOINT SEALANT/JOINT OF MANHOLE USING TALL SECTIONS OR ADDITIONAL SEALANT IS REQUIRED @ \$10.00/ROLL; 14.5FT./ROLL)

PIPING BLOCKOUTS

PIPE SIZE(S)	BLOCKOUT	BLOCKOUT WITH PRESS-IN GASKET
2", 4", 6" OR 8"	\$25.00 EACH	\$60.00 EACH
10"	\$25.00 EACH	\$70.00 EACH
12"	\$25.00 EACH	\$75.00 EACH

STANDARD PRECAST BASES**

(USUALLY MONOLITHIC WITH FIRST RISER)

FOR 48" I.D. MANHOLE - 70" DIAMETER X 6" THICK - \$176.00 EACH

FOR 60" I.D. MANHOLE - 84" DIAMETER X 8" THICK - \$270.00 EACH

FOR 72" I.D. MANHOLE - 96" DIAMETER X 8" THICK - \$320.00 EACH

FOR 90" I.D. MANHOLE - 110" DIAMETER X 8" THICK - \$1,050.00 EACH

FOR 90" I.D. MANHOLE - 110" DIAMETER X 12" THICK - \$1,100.00 EACH

**OTHER BASE THICKNESSES AVAILABLE BY SPECIAL ORDER

PRECAST GROUT INVERTS FOR 48" I.D. MANHOLES

# OF PIPES	PIPE SIZE		
	4", 6" OR 8"	10"	12"
1 OR 2	\$127.00	\$160.00	\$182.00
3	\$138.00	\$182.00	\$204.00
4	\$149.00	\$204.00	\$226.00

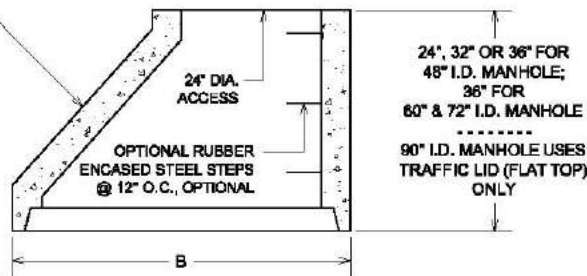
FOR 60" I.D. MANHOLES; ADD \$22.00/PRICE - FOR 72" I.D. MANHOLES; ADD \$44.00/PRICE (INVERTS PROVIDED TO 1/2 THE HEIGHT OF THE PIPING USED)

NOTES:

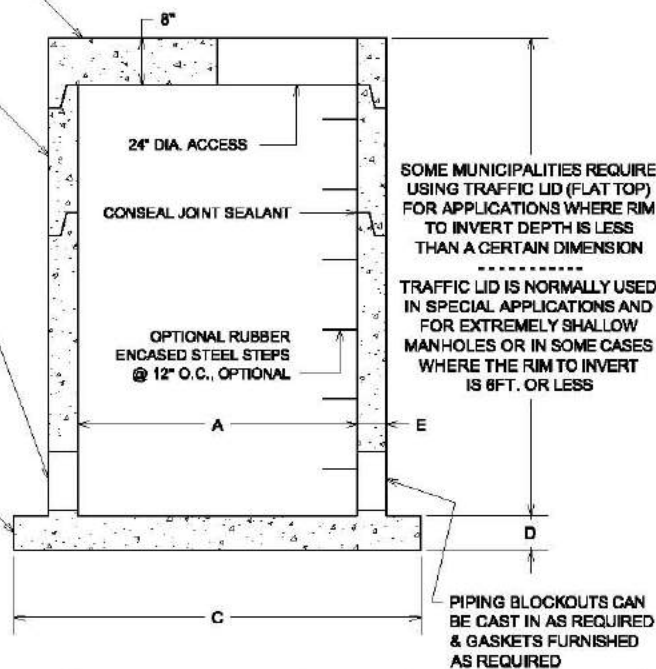
- ADDITIONAL COST FOR DELIVERY

- SEE WEIGHT & CAPACITY CHART FOR PRODUCT WEIGHTS

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY



ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE



MANHOLE DIMENSIONS				
A	B	C	D	E
INSIDE DIAMETER	OUTSIDE DIAMETER	BASE DIAMETER	BASE THICKNESS	WALL THICKNESS
48"	58"	70"	6"	5"
60"	72"	84"	8"	6"
72"	84"	96"	8"	6"
90"	106"	110"	8" OR 12"	8"

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE

DRAWING NOT TO SCALE

STANDARD MANHOLE PRICING - CONT'D
DATE CREATED: 11/03
UPDATED: 12/03

vaughn concrete products, inc.

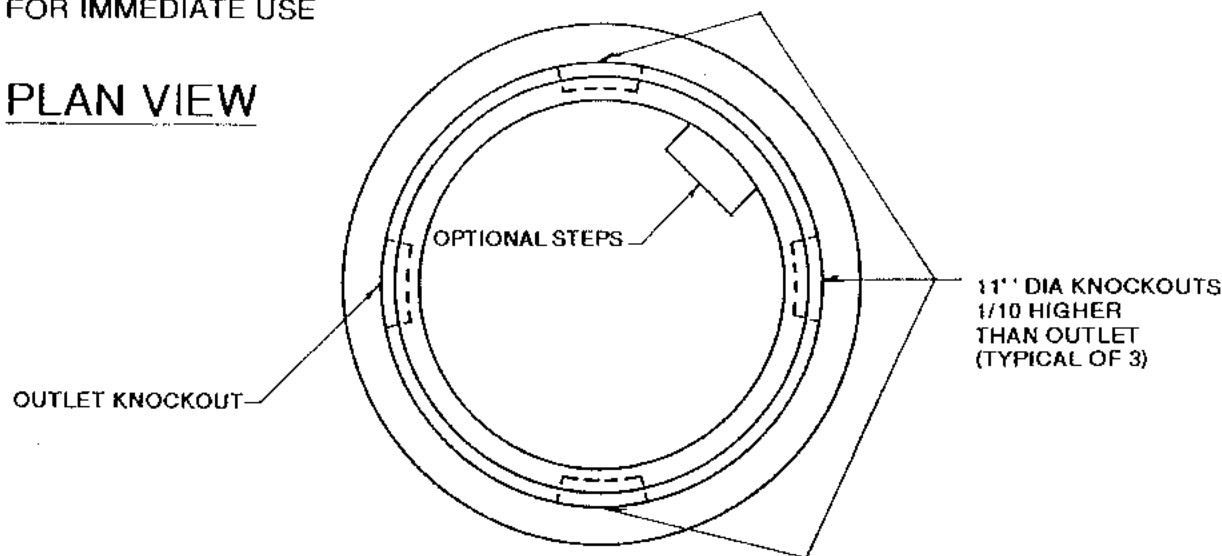
12650 Tucson Street • Henderson, Colorado 80640 • 303-659-3747, Fax 303-659-1333
 2671 South Greeley Hwy • Cheyenne, Wyoming 82007 • 307-634-0695, Fax 307-634-0694
 10021 Amarillo Blvd East • Amarillo, Texas 79108 • 806-374-3747, Fax 806-335-3717

Precast Concrete

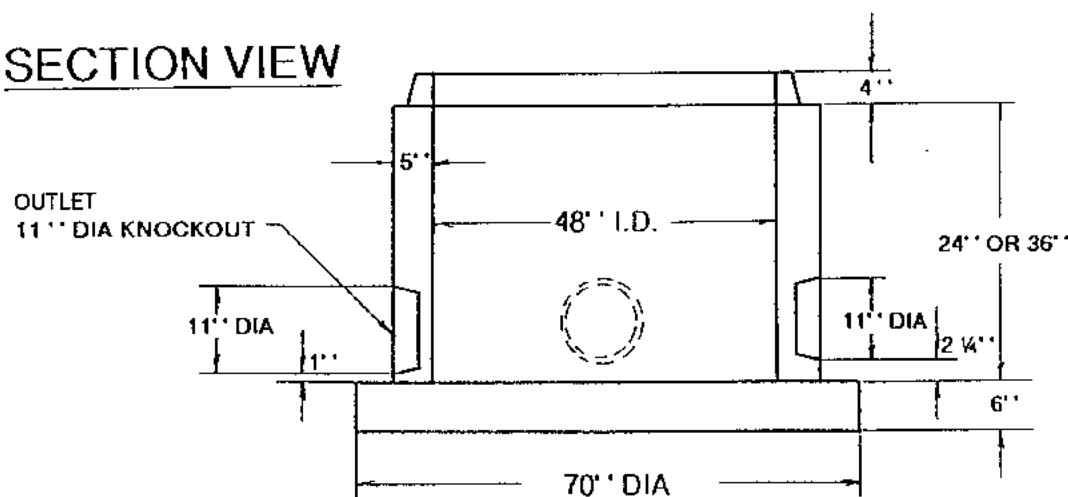
MANHOLE MONOLITHIC BASE WITH PREFORMED KNOCKOUTS

THIS IS A STOCK
PRODUCT AVAILABLE
FOR IMMEDIATE USE

PLAN VIEW



SECTION VIEW



Actual dimensions of concrete products may vary slightly

DRAWING IS NOT TO SCALE

Weight:

Base w/2 Ft. Riser - 3800 lbs

Base w/3 Ft. Riser - 4700 lbs

KNOCKOUTS ARE 3" DEEP WITHOUT REINFORCING
IN REMAINING 2" OF CONCRETE TO ALLOW
THE THIN SECTION TO BE KNOCKED OUT

KNOCKOUT PIPE OPENINGS CAN BE
USED WITH OR WITHOUT BOOTS
(RESILIENT CONNECTORS WHICH
SATISFY ASTM C-923)

vaughn
concrete products, inc.

UPDATED 11/97

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SAMPLE SPECIFICATION FOR PRECAST MANHOLES

SANITARY AND STORM SEWER MANHOLES

GENERAL: Manhole bases, barrel and cone sections shall be constructed of precast concrete. These, plus frames, covers and steps, shall be manufactured/supplied in accordance with details shown on Standard Drawings by Vaughn Concrete Products, Inc., or pre-approved comparable manufacturers. All other manufacturers must present submittals for verification of compliance with design criteria. Supplier approval must be obtained 21 days prior to bid opening; a full three days must be given to the engineer for submittal review. No late approvals will be allowed. A plant inspection will also be required for production facility inspection and to review record-keeping for material certification. The submittal information must be supplied in accordance with requirements found in the following submittal section.

SUBMITTALS: The manufacturer must provide certification that all materials used for manufacturing meet with the following ASTM specifications:

Aggregates	- ASTM - C-33
Cement	- ASTM - C-150
Sampling Specimens	- ASTM - C-39
Reinforcing	- ASTM - A-185, A-615, A706
Manhole Steps	- ASTM - C-478

A. Precast Concrete Barrel and Cone. Precast Concrete Sections for manholes shall conform to specifications for "Precast" Reinforced Concrete Manhole Risers and Tops," ASTM C-478. Compressive strength test results must be furnished to verify concrete strengths meet 4000 PSI minimum.

Adjusting rings may be used for adjusting the manhole top elevation to coincide with existing ground elevations, except the total height of adjusting rings used per manhole shall not exceed 12 inches. Adjusting rings shall be reinforced with the same percentage of steel as the riser and top.

B. Steps. When steps are required non-corrosive steps of rubber encased steel shall be used. Step shall withstand vertical loads of 400 pounds and pull-out resistance of 1,000 pounds. Manholes shall use eccentric cone sections to allow access into manhole straight down one wall of manhole. Steps to be spaced at 12 inch centers.

SAMPLE SPECIFICATION FOR PRECAST MANHOLES

SANITARY AND STORM SEWER MANHOLES, CONTINUED

C. All manholes shall be designed to withstand H-20 AASHTO loading. Lifting holes shall not protrude through manhole wall; one full inch of concrete thickness must remain between lift hole and outside wall of manhole for all standard size sections.

D. Rings and Covers. Rings and covers shall be in accordance with Owner's Standards. Covers shall be non-ventilated type unless called out otherwise on the plans.

E. Concrete Base. Precast concrete base shall be either separate or cast with manhole barrel section. Concrete mix design shall conform to appropriate section of ASTM C-478, with 4000 PSI minimum strength.

F. Construction. Manholes shall be constructed to the general dimensions shown. Invert channels shall be smooth and semi-circular in shape conforming to the inside of the adjacent sewer section. Changes in directions of flow shall be made with a smooth curve of as large a radius as the size of the manhole will permit. Changes in size and grade of the channels shall be made gradually and evenly. Precast inverts may be used or the invert channels will be formed directly in the precast base sections after it/they are set and pipe is laid. The floor of the manhole outside the channel shall be semi-smooth and shall slope toward the channel not less than one inch per foot, nor more than two inches per foot.

Free drop inside the manhole shall not exceed two feet measured from the invert of the inlet pipe to the outlet pipe. Where the drop exceeds two feet, drop manholes shall be constructed as shown on the standard manhole detail.

For all connections between wall sections the joint shall be joined with Conseal Joint Sealant or approved equal, in such a manner as to make the manhole watertight. Pipe to manhole connections can be made with Press-In Type Boots, or pipe can be grouted in with non-shrink grout.

SAMPLE SPECIFICATION FOR PRECAST MANHOLES

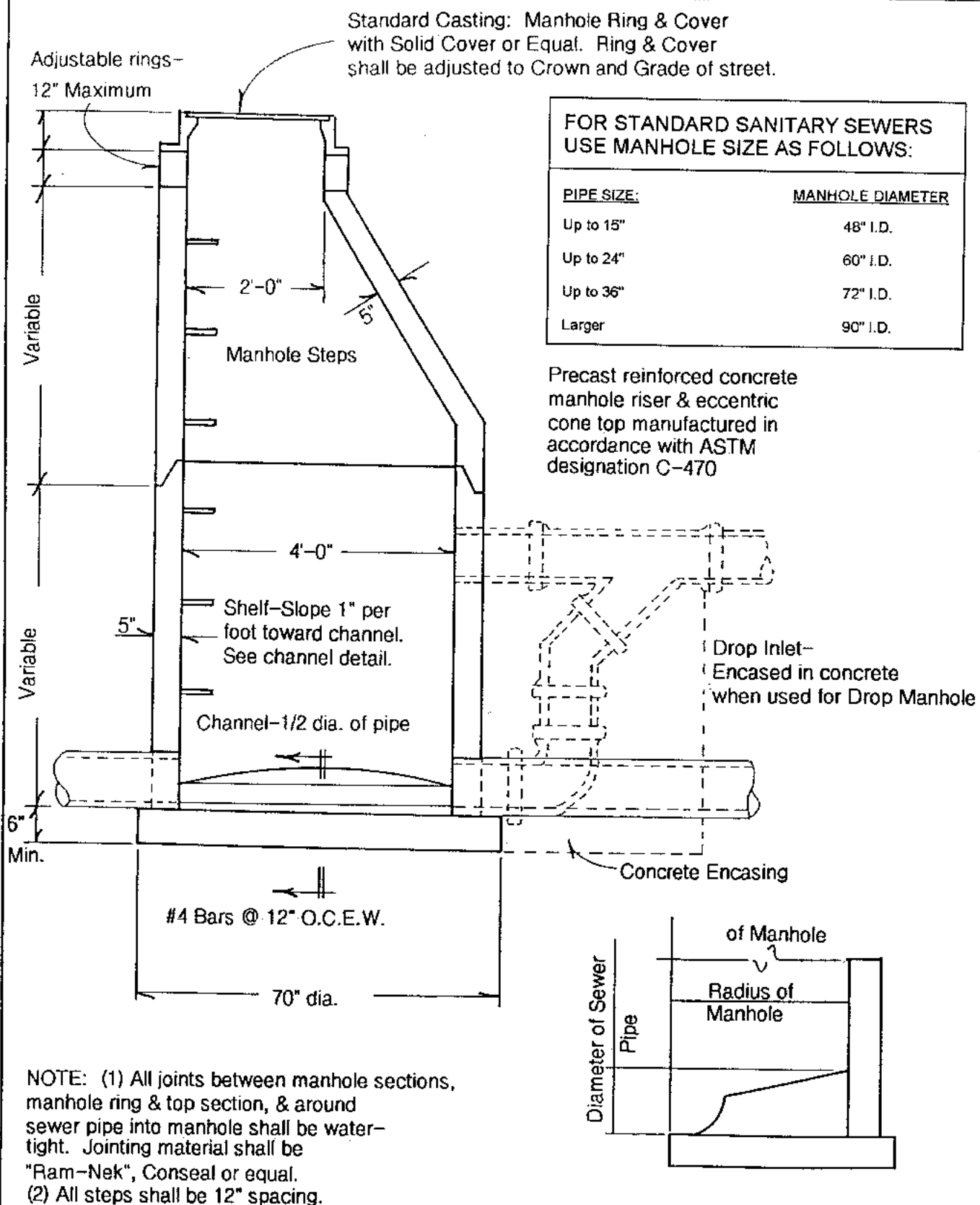
SANITARY AND STORM SEWER MANHOLES, CONTINUED

See attached drawings for pipe size to manhole diameter.

Additional design information:

For Sanitary Manholes - The information contained in this sample specification is meant to serve as a guide only. Some municipalities may have their own standards.

For Storm Sewer Manholes - Consult Vaughn Concrete Products to determine standard blockout sizes available for different size manhole. It is industry standard to allow two inches minimum, five inches maximum free space all around a pipe where it enters a manhole to allow storm sewer pipe placement. This allows room for some fluctuation in angle and elevation of storm sewer piping as well as adequate space for efficient grouting. Storm sewer manhole sizes are determined considering storm sewer pipe outside diameters, standard holeformer sizes, free space required around piping and the need to have at least 6" of inside wall space between storm sewer piping blockouts. Consult Vaughn Concrete Products if designer is in question.



PAGE 4 OF 7

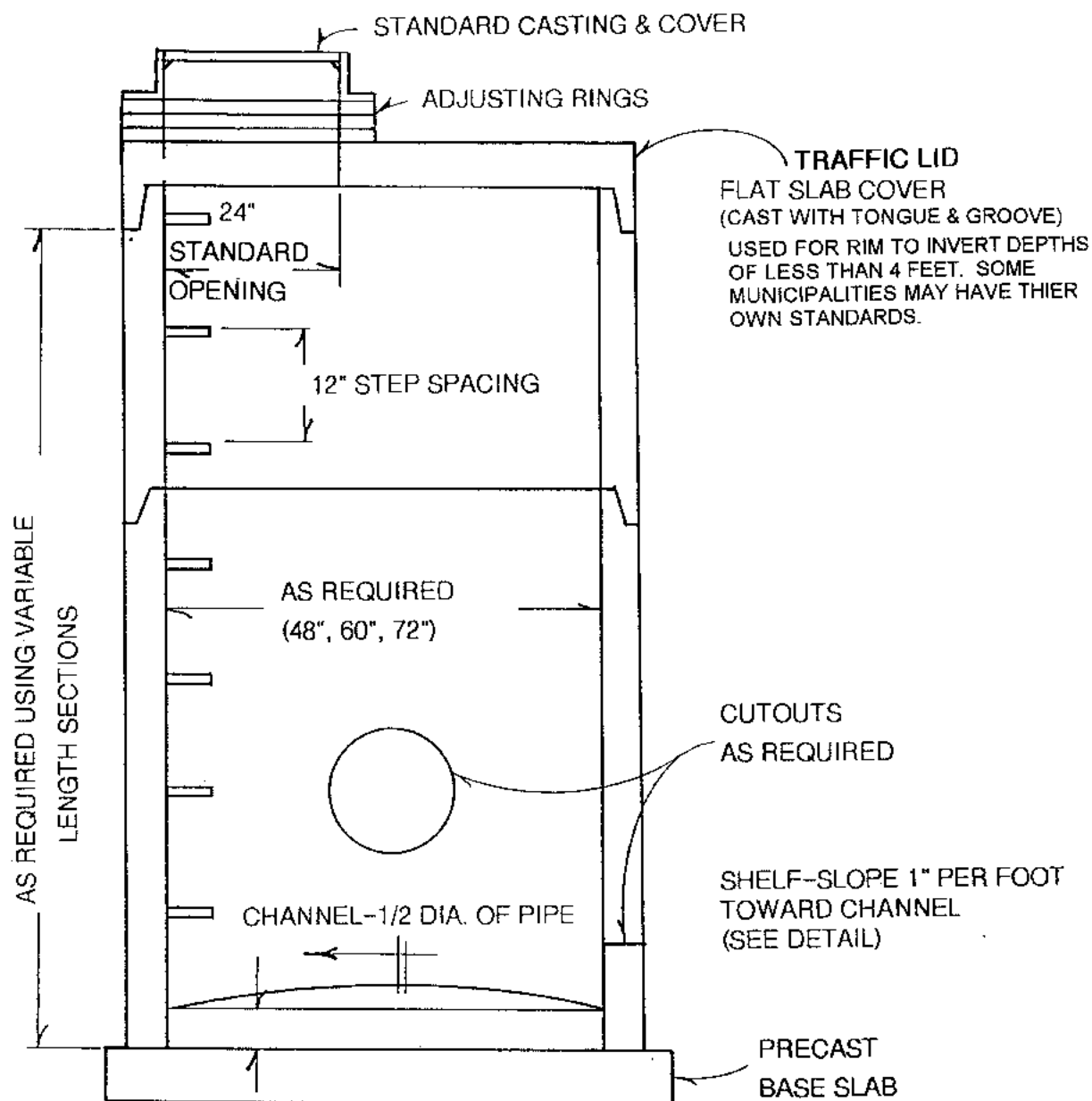
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29171 So. Greeley Hwy. - Cheyenne, Wyoming 82007 - 307-634-0665, Fax 307-634-0684
13021 Amarillo Blvd. - East - Amarillo, Texas 79108 - 806-374-3747, Fax 806-395-3717

Scale:
None

SANITARY SEWER MANHOLE
(PRECAST)

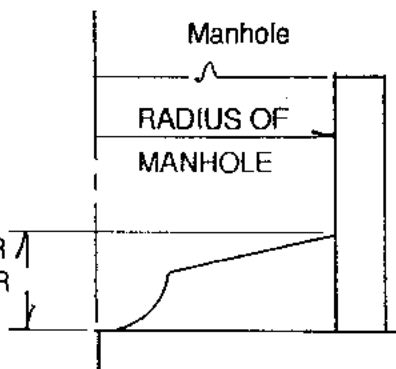
Standard
Drawing
No 01



FOR STANDARD SANITARY SEWERS
USE MANHOLE SIZE AS FOLLOWS:

PIPE SIZE:	MANHOLE DIAMETER
Up to 15"	48" I.D.
Up to 24"	60" I.D.
Up to 36"	72" I.D.
Larger	90" I.D.

DIAMETER
OF SEWER
PIPE



PAGE 5 OF 7

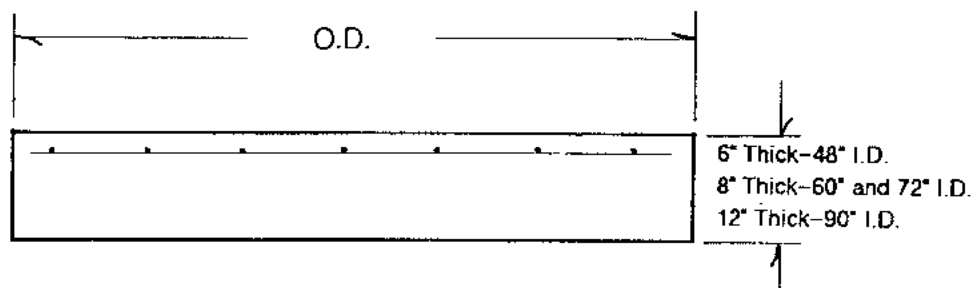
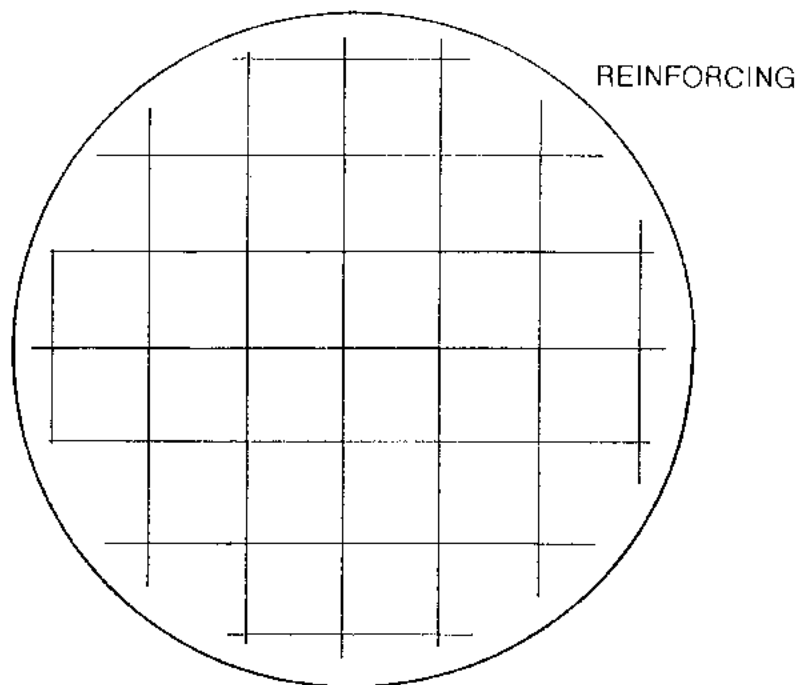
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concrete products, inc.

12650 Yates St. - Henderson, Colorado 80640 - 303-659-3747 Fax 303-659-1333
35711 So. Greenglenway - Cheyenne, Wyoming 82201 - 307-634-0800 Fax 307-634-0254
10021 Annapolis Blvd. - Annapolis, Maryland 21406 - 410-374-8747 Fax 410-335-3717

SCALE:
NONE

SANITARY SEWER MANHOLE
STANDARD STRAIGHT MANHOLE
ASTM C-478

Standard
Drawing
No 2



SIZE	O.D.	REIN.	WT.
48"	70"	#4 @ 12" O.C.E.W.	2850#
60"	84"	#4 @ 12" O.C.E.W.	3850#
72"	96"	#4 @ 12" O.C.E.W.	5100#

Reinforcing To Have 2" Cover Off Top Of Base

**FOR STANDARD SANITARY SEWERS
USE MANHOLE SIZE AS FOLLOWS:**

<u>PIPE SIZE:</u>	<u>MANHOLE DIAMETER</u>
Up to 15"	48" I.D.
Up to 24"	60" I.D.
Up to 36"	72" I.D.
Larger	90" I.D.

PAGE 6 OF 7

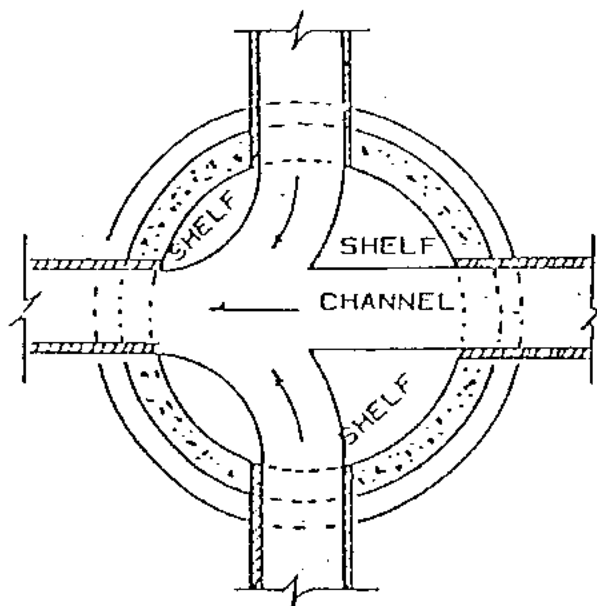
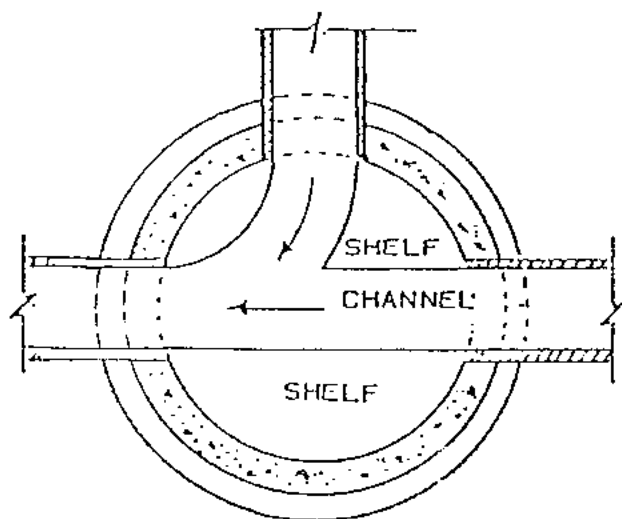
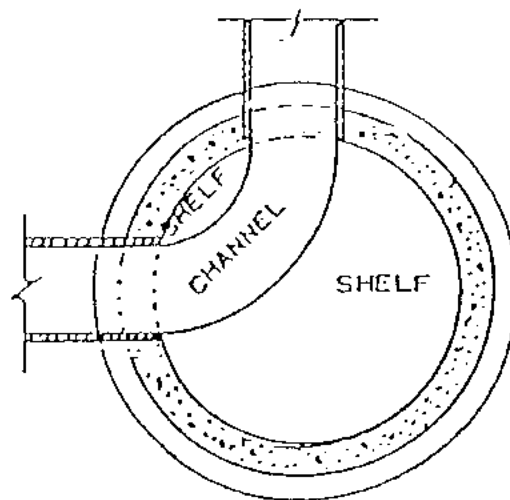
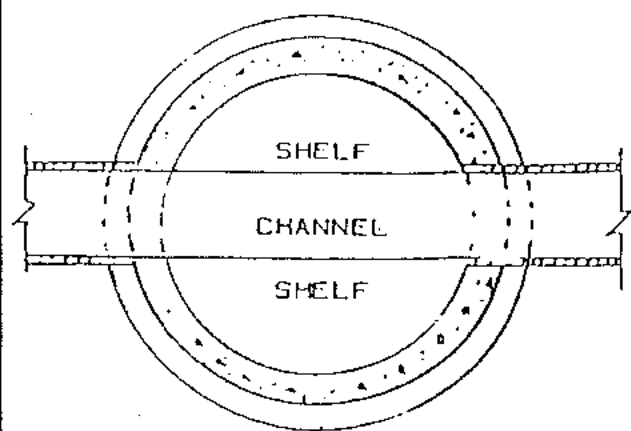
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concrete products, inc.

12850 Tucson Street - Henderson, Colorado 80640 - 303-659-3747, Fax 303-659-1233
2871 So. Grayley Hwy - Cheyenne, Wyoming 82007 - 307-634-0295, Fax 307-634-0294
10921 Amarillo Blvd., East - Amarillo, Texas 79109 - 806-374-3747, Fax 806-335-3717

SCALE:
NONE

PRECAST MANHOLE BASES
48", 60", 72"

Standard
Drawing
No 3



NOTE:

1. SLOPE ALL SHELVES TO CHANNEL AT 1" PER FOOT
2. SEE PLAN-PROFILE SHEETS FOR SLOPE OF CHANNEL

FOR STANDARD SANITARY SEWERS
USE MANHOLE SIZE AS FOLLOWS:

PIPE SIZE:	MANHOLE DIAMETER
Up to 15"	48" I.D.
Up to 24"	60" I.D.
Up to 36"	72" I.D.
Larger	90" I.D.

PAGE 7 OF 7

UPDATED 12/99

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10021 Atlantic Blvd. - El Paso, Texas 79168 - 806-374-3747, Fax 806-335-3717

Scale:
None

TYPICAL MANHOLE
CHANNEL DETAILS

Standard
Drawing
No 4

Vaughn concrete products, inc.

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 2671 So. Greeley Hwy Cheyenne, Wyoming 82007-3681 (307) 634-0695
 10021 Amarillo Blvd. East Amarillo, Texas 79108-7542 (806) 374-3747
 Toll Free (877) 827-8255 Toll Free Fax (877) 827-7363

THEORETICAL WEIGHT AND CAPACITY CHART FOR ROUND MANHOLES

As manufactured by Vaughn Concrete Products, Inc.

24" I.D. MANHOLE RISER WEIGHTS					
SIZE	WEIGHT (LBS.)	SIZE	WEIGHT (LBS.)	SIZE	WEIGHT (LBS.)
2"	76	4"	152	8"	305
3"	114	6"	229	12"	548

48" I.D. MANHOLE MATERIAL (5" THICK WALLS)				
	DESCRIPTION	THICKNESS	DIAMETER	WEIGHT (LBS.)
	EXTENDED BASE	6" (STANDARD)	70" (STANDARD)	2,020
		8"	72"	2,700
		12"	72"	4,250
	TRAFFIC LID	8"	OVERALL HEIGHT	2,800
			12"	
CAPACITY : 95 GALLONS/FT.				
BARREL WEIGHT : 900 LBS./FT.				

60" I.D. MANHOLE MATERIAL (6" THICK WALLS)				
	DESCRIPTION	THICKNESS	DIAMETER	WEIGHT (LBS.)
	EXTENDED BASE	8" (STANDARD)	84" (STANDARD)	3,850
		12"	84"	5,800
	TRAFFIC LID	8"	OVERALL HEIGHT	3,000
			13"	
CAPACITY : 148 GALLONS/FT.				
BARREL WEIGHT : 1,300 LBS./FT.				

72" I.D. MANHOLE MATERIAL (6" THICK WALLS)				
	DESCRIPTION	THICKNESS	DIAMETER	WEIGHT (LBS.)
	EXTENDED BASE	8" (STANDARD)	96" (STANDARD)	5,100
		12"	96"	7,600
	TRAFFIC LID	8"	OVERALL HEIGHT	4,000
			14"	
CAPACITY : 212 GALLONS/FT.				
BARREL WEIGHT : 1,550 LBS./FT.				

90" I.D. MANHOLE MATERIAL (8" THICK WALLS)				
	DESCRIPTION	THICKNESS	DIAMETER	WEIGHT (LBS.)
	EXTENDED BASE	6"	110"	4,500
		8"	110"	6,600
		12" (STANDARD)	110"	9,900
	FLAT LID FOR TRAFFIC	12"	110"	9,900
	FLAT LID	8"	110"	6,650
CAPACITY : 331 GALLONS/FT.				
BARREL WEIGHT : 2,600 LBS./FT.				

96" I.D. MANHOLE MATERIAL (9" THICK WALLS)				
	DESCRIPTION	THICKNESS	DIAMETER	WEIGHT (LBS.)
	EXTENDED BASE	6"	118"	5,700
		8"	118"	7,600
		12" (STANDARD)	118"	11,400
	FLAT LID FOR TRAFFIC	12"	118"	11,400
	FLAT LID	8"	118"	7,600
CAPACITY : 375 GALLONS/FT.				
BARREL WEIGHT : 3,100 LBS./FT.				

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IRON WORKS, INC.
P.O. BOX 439
EAST JORDAN, MI. 49727
1-800-874-4100
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DRAWN
SBB

DATE
09/25/00

APPROVED

DATE

MANHOLE FRAME

PRODUCT NO.

31267002

CATALOG NO.

NA

REF. PRODUCT DRAWING

NA

EST. WT.

RING: 145 LBS 66kg

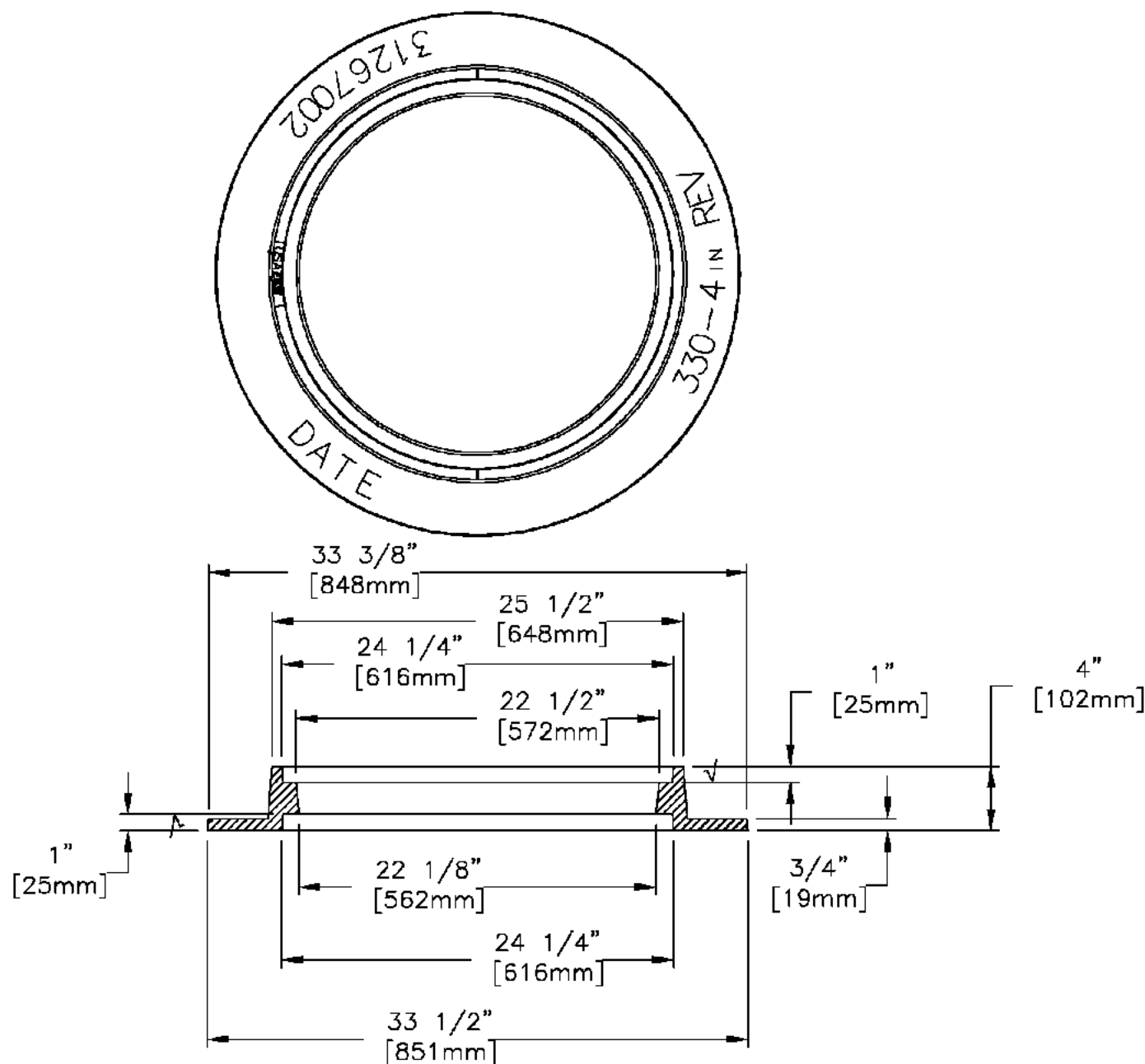
OPEN AREA

N/A

MAT'L SPEC.
RING - GRAY IRON
ASTM A48 CL30

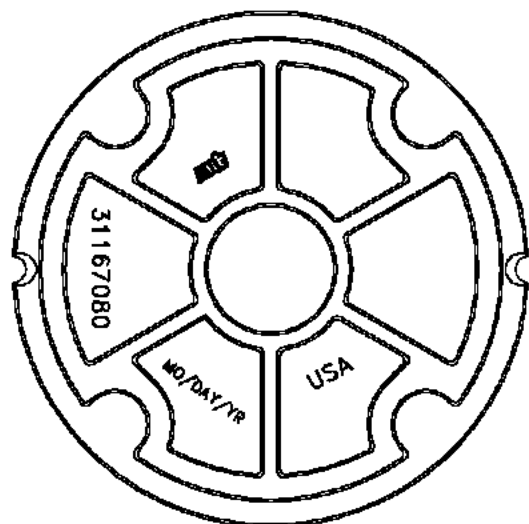
LOAD RATING
HEAVY DUTY

MEETS OR EXCEEDS AASHTO HS-20-44
LOADING REQUIREMENTS

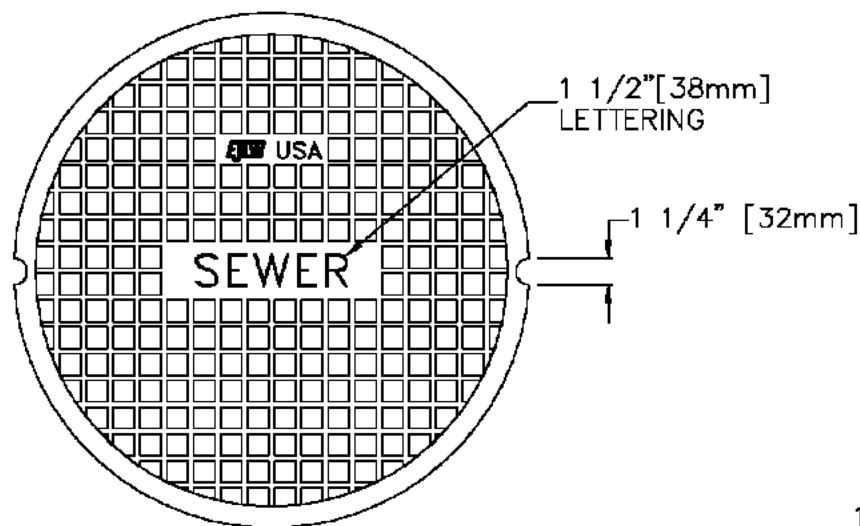


RING SECTION

✓ MACHINED SURFACE



COVER BACK

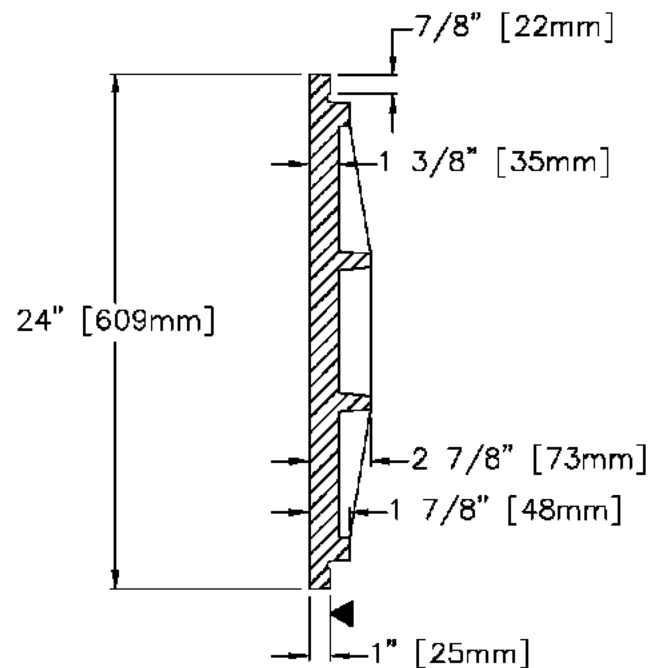


COVER FACE

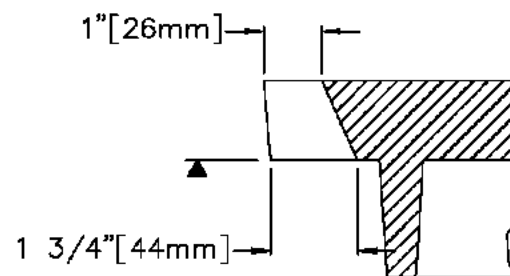
USED FOR SANITARY SEWER MANHOES

VCP DESIGNATION: EJW 330-4" "SEWER"

▼ MACHINED BEARING SURFACE



COVER SECTION



(2) TYPE ONE PICKSLOTS

PICKSLOT DETAIL

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DATE
05/22/00

APPROVED

DATE

315-330
COVER

PRODUCT NO.

31167080

CATALOG NO.

315-330

REF. PRODUCT DRAWING

N/A

EST. WT.

COVER: 160 LBS 73kg

OPEN AREA

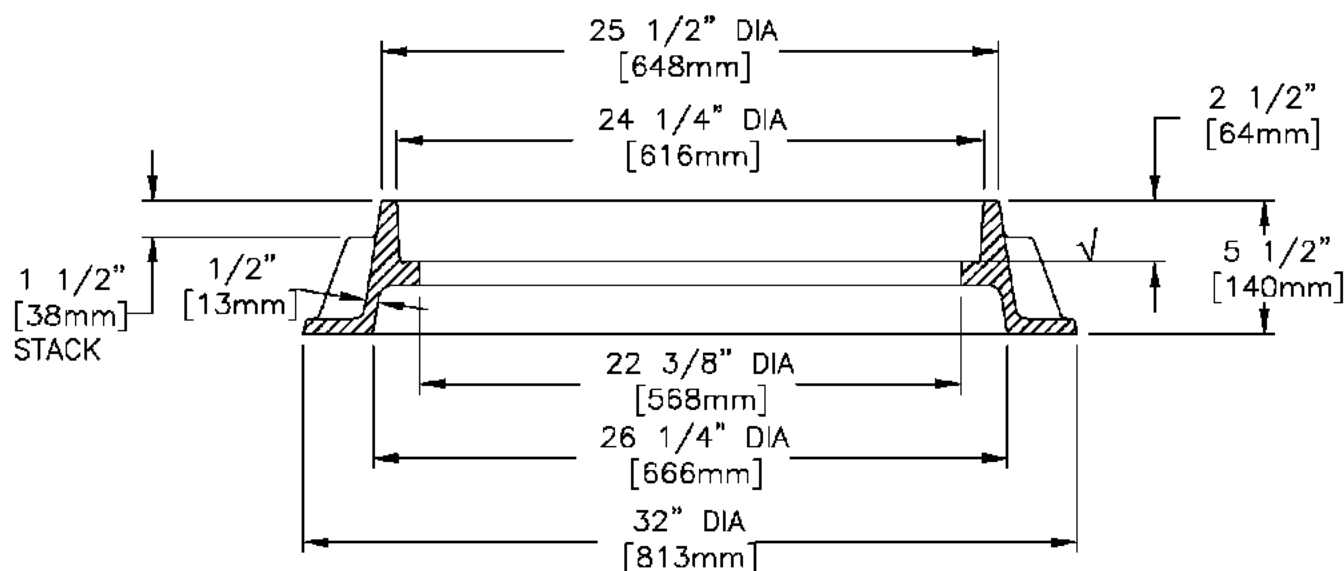
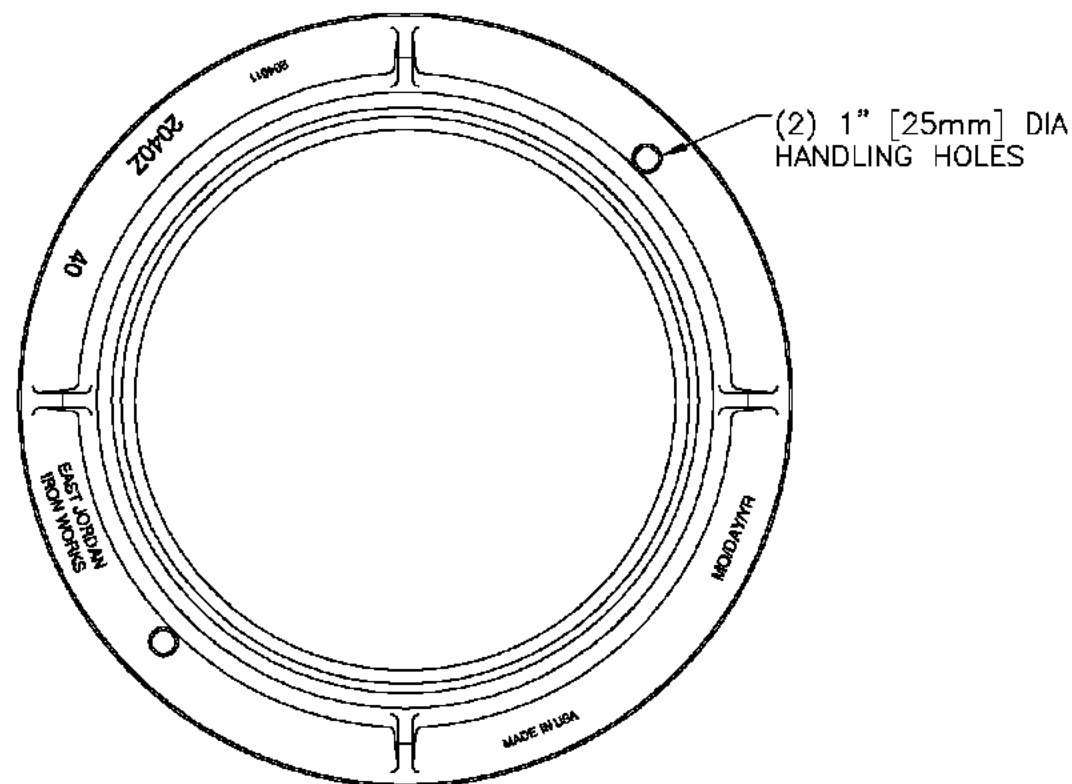
N/A

MAT'L SPEC.

COVER- GRAY IRON
ASTM A48 CL30

LOAD RATING
HEAVY DUTY

MEETS OR EXCEEDS AASHTO HS-20-44
LOADING REQUIREMENTS



FRAME SECTION

✓ MACHINED SURFACE

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DATE
10/25/01

APPROVED

DATE

2040Z MANHOLE FRAME

PRODUCT NO.

204011

CATALOG NO.

2040Z

REF. PRODUCT DRAWING

204011

EST. WT.

FRAME: 140 LBS 64kg

OPEN AREA

N/A

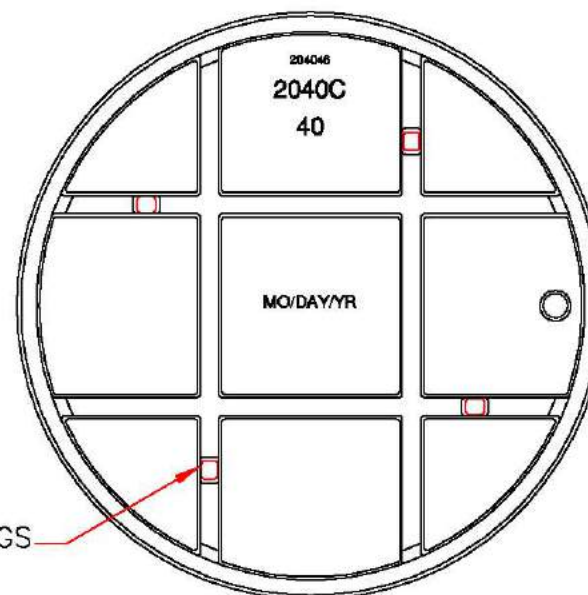
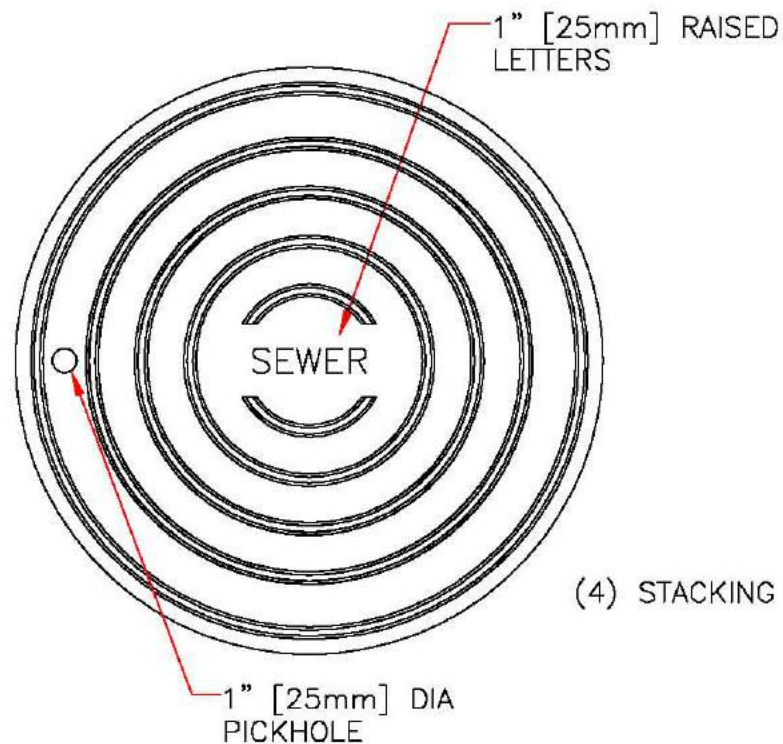
MAT'L SPEC.

FRAME — GRAY IRON
ASTM A48 CL35

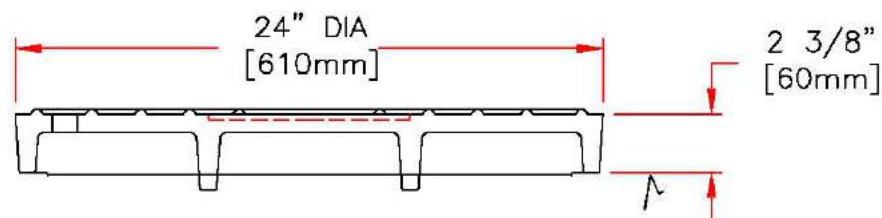
LOAD RATING

HEAVY DUTY

MEETS OR EXCEEDS AASHTO HS-20-44
LOADING REQUIREMENTS



**BOTTOM VIEW
OF COVER**



COVER SECTION

NOTE: SEAT IS MACHINED 1/8" [3mm] TO 2 3/8" [60mm] DIMENSION.

USED IN AMARILLO AREA ONLY, ALL OTHERS USE PICKBAR

✓ **MACHINED SURFACE**

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IRON WORKS, INC.**
P.O. BOX 439
EAST JORDAN, MI. 49727
1-800-874-4100
FAX 231-536-4458

**DRAWN
TCL**

**DATE
07/17/02**

APPROVED

DATE

MANHOLE COVER

PRODUCT NO.

00204046

CATALOG NO.

2040C

REF. PRODUCT DRAWING

204021

EST. WT.

COVER: 150 LBS 68kg

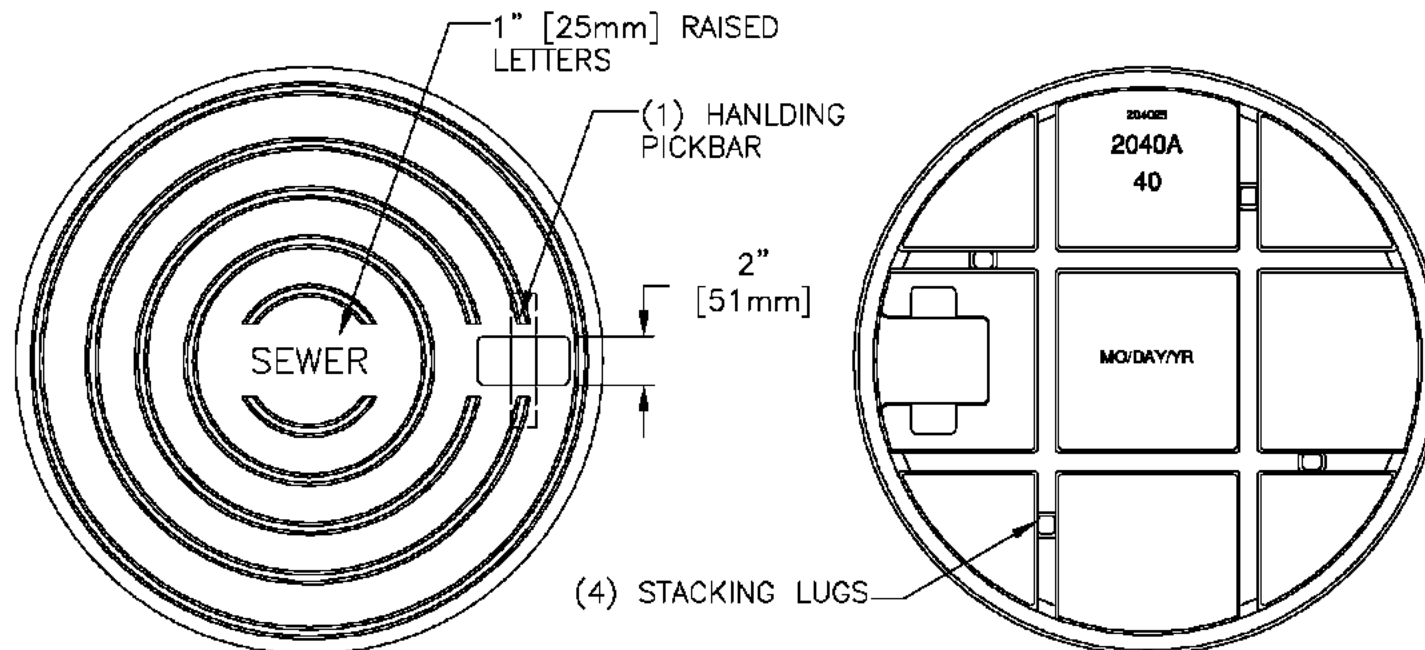
OPEN AREA

N/A

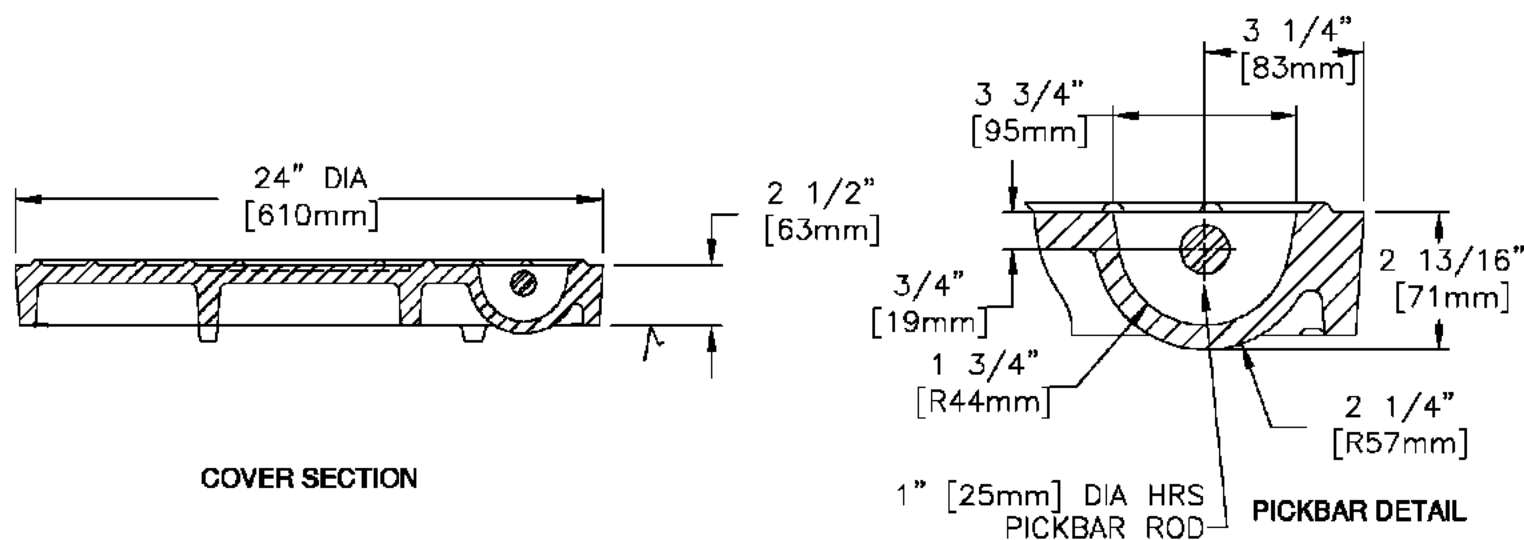
**MAT'L SPEC.
COVER - GRAY IRON
ASTM A48 CL35**

**LOAD RATING
HEAVY DUTY**

**MEETS OR EXCEEDS AASHTO HS-20-44
LOADING REQUIREMENTS**



**BOTTOM VIEW
OF COVER**



COVER SECTION

PICKBAR DETAIL

USED IN TEXAS CITIES OTHER THAN AMARILLO

✓ MACHINED SURFACE

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FAX 231-536-4458

DRAWN
TCL

DATE
07/17/02

APPROVED

DATE

MANHOLE COVER

PRODUCT NO.

00204025

CATALOG NO.

2040A

REF. PRODUCT DRAWING

204021

EST. WT.

COVER: 150 LBS 68kg

OPEN AREA

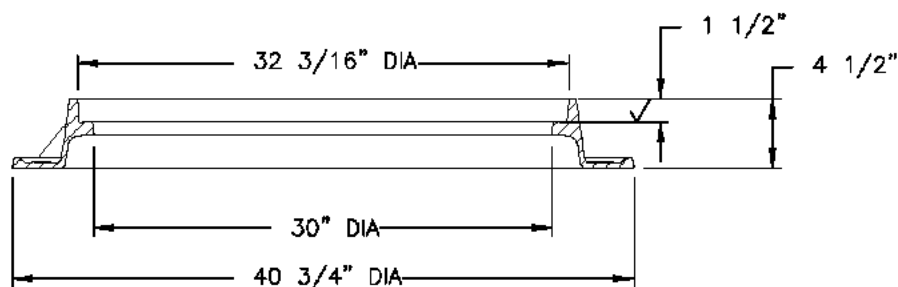
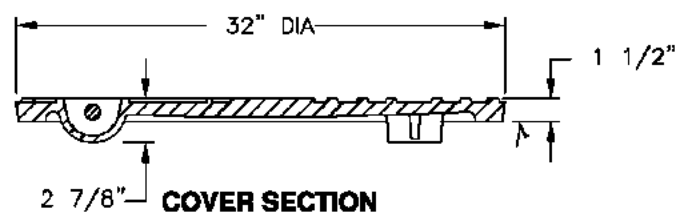
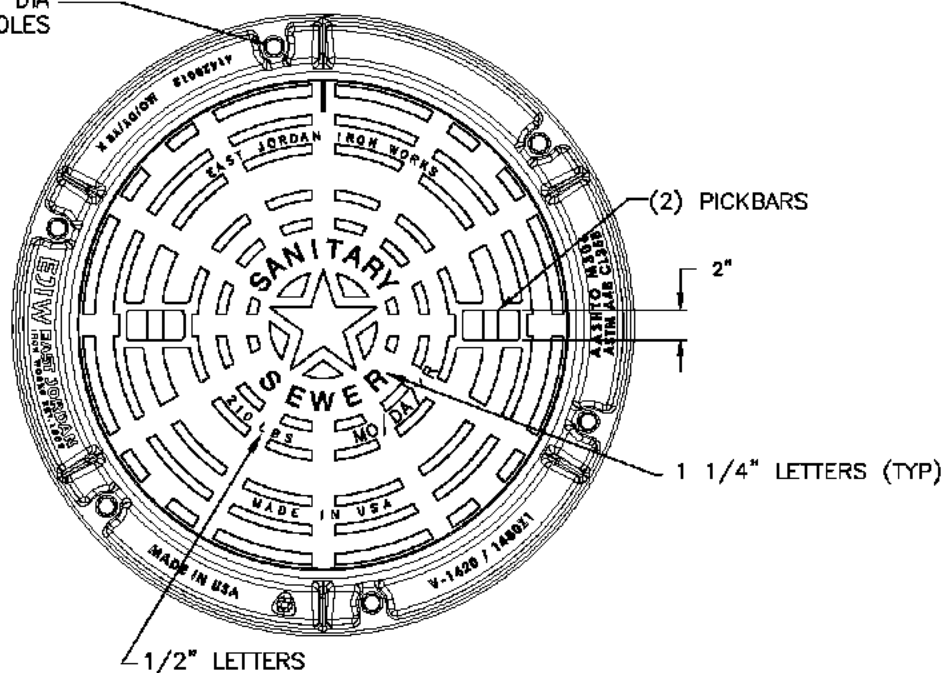
N/A

MAT'L SPEC.
COVER - GRAY IRON
ASTM A48 CL35

LOAD RATING
HEAVY DUTY

MEETS OR EXCEEDS AASHTO HS-20-44
LOADING REQUIREMENTS

(6) 1" DIA
HANDLING HOLES



FRAME SECTION

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EJIW EAST JORDAN
IRON WORKS EST. 1883

800-626-4653
www.ejiw.com
MADE IN USA

PRODUCT NUMBER

41432040A01

CATALOG NUMBER

V-1432 CV

V-1420 FR

ASSEMBLY

LOAD RATING

HEAVY DUTY

COATING

UNDIPPED

SPECIFICATION

COVER — GRAY IRON
ASTM A48 CL35B
FRAME — GRAY IRON
ASTM A48 CL35B

OPEN AREA
N/A

✓ DESIGNATES MACHINED
SURFACE

DRAWN
KH

DATE
10/17/08

LAST REVISED

DATE

REFERENCE INFORMATION

41432040

41420012

**PSX**

Providing products and services that protect our planet's clean water supply.

POSITIVE SEAL GASKET SYSTEM WITH POWER SLEEVE EXPANSION

**PRESS-SEAL GASKET CORPORATION**

P.O. Box 10482, Fort Wayne, Indiana 46852

Phone: (260) 436-0521 (800) 348-7325 Fax: (260) 436-1908 E-mail: sales@press-seal.com Web: www.press-seal.com

PSX

Our original PSX; POSITIVE SEAL pipe-to-manhole flexible connector system. PSX is available for 8" and larger holes to seal the most commonly used pipe types and sizes.

PSX ADVANTAGES

- * Meets and/or exceeds Material Specifications of ASTM C-923.
- * Type 304 Stainless Steel Compression Power Sleeve is one piece with no welds. Made with 10 and 11 gauge steel.
- * Highest installation pressures, 2500 to 6000 PSI. The more PSI force, the better the initial and long term seal.
- * Gasket is made of high quality Polyisoprene rubber. Provides greater deflection capabilities and greater tear resistance.
- * Type 304 Stainless Steel Take-Up Clamps.
- * For use with cored holes, or our fiberglass, or Pro-Former Hole Formers.

TEST	ASTM METHOD	TEST REQUIREMENTS	TEST RESULTS
CHEMICAL RESISTANCE; 1N SULFURIC ACID 1N HYDROCHLORIC ACID	D 534, AT 22°C FOR 48 HRS	NO WEIGHT LOSS NO WEIGHT LOSS	NO WEIGHT LOSS NO WEIGHT LOSS
TENSILE STRENGTH	D 412	1200 PSI, MIN.	2600 PSI
ELONGATION AT BREAK	D 412	350%, MIN.	675%
HARDNESS	D 2240 (SHORE A DUROMETER)	±5 FROM THE MANUFACTURER'S SPECIFIED HARDNESS	45
ACCELERATED OVEN-AGING	D 573, 70± 1°C FOR 7 DAYS	DECREASE OF 15%, MAX. OF ORIGINAL TENSILE STRENGTH, DECREASE OF 20%, MAX. OF ELONGATION	-13% TENSILE CHANGE, -14% ELONGATION CHANGE
COMPRESSION TEST	D 395, METHOD B, AT 70°C FOR 22 HRS	DECREASE OF 25%, MAX. OF ORIGINAL DEFLECTION	13.20%
WATER ABSORPTION	D 471 IMMERSE 0.75 BY 2-IN. SPECIMEN IN DISTILLED WATER AT 70°C FOR 48 HOURS	INCREASE OF 10%, MAX. OR ORIGINAL BY WEIGHT	3.50%
OZONE RESISTANCE	D 1171	RATING 0	PASS
LOW-TEMP, BRITTLE POINT	D 746	NO FRACTURE AT -40°C	PASS
TEAR RESISTANCE	D 624, METHOD B	200 LBF/IN. (MIN.)	318 LBF/IN.

PIPE INSTALLATION

1. Clean pipe and boot to ensure no dirt or foreign materials are present.
2. Clamping surface on pipe must be clean and smooth.
3. Center pipe in opening and insert until pipe breaks the inside plane of manhole.
4. Attach take-up clamp(s) and stagger screw(s) of clamp(s) around the groove of the gasket so that take-up pressure will be equalized. Make sure each clamp is completely in the correct groove.
5. Using a torque ratchet or torque wrench, gradually tighten all screw(s) of clamp(s) in an alternating pattern to 60lbs/in torque.
6. After reaching 60lbs/in torque on final screw, check all screws again to ensure equal compression of all clamps.
7. Vacuum testing shall be conducted in accordance with ASTM C-1244-02.
8. Adjust pipe to line and grade. Use proper bedding, backfill materials and techniques so that pipe deflection and deformation is minimized. Installation of the concrete structure shall be such that differential settlement between the structure and the pipeline shall be less than 10% of pipe diameter for pipes less than 20" and shall be less than 5% of pipe diameter for pipes between 20 and 60 inches in diameter.
9. Any pipe stubs installed in the manhole must be positively restrained from movement per ASTM C-923. Press-Seal is not responsible for blow outs due to unrestrained pipe stub or future lateral connections.

Before using the PSX-POSITIVE SEAL system for any custom applications, contact our Customer Service Department for more information.

U.S. Patent No.'s 4215868, 4478437
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Press-Seal believes all information is accurate as of its publication date. Information, specifications, and prices are all subject to change without notice. Press-Seal is not responsible for any inadvertent errors.



PRESS-SEAL GASKET CORPORATION

P.O. Box 10482, Fort Wayne, Indiana 46852

Phone: (260) 436-0521 (800) 348-7325 Fax: (260) 436-1908 E-mail: sales@press-seal.com Web: www.press-seal.com

P R O D U C T S P E C I F I C A T I O N S


CONSEAL™
 Concrete Sealants INC.

CS-50

Liquid Butyl Primer

APPLICATIONS

Concrete surface preparation coating and installation aid for bonding preformed sealants to concrete structures and metal structures. Can be applied in advance of product installation.

SEALING PROPERTIES

When applied to concrete or metal, ConSeal CS-50 Liquid Butyl Primer creates a butyl rubber film that acts to both seal the structure and improve the bond between preformed sealants and the structure.

PHYSICAL PROPERTIES

Color:	Black
% Solids:	25% minimum
Solvent Type:	Hexane
Flash Point:	76°F
Weight/Gallon:	7.6 Pounds
Dry Time @ 77°F (25°C):	15-20 minutes
Dry Time @ 40°F (4°C):	30-40 minutes
Clean Up:	Mineral Spirits
Coverage Per Gallon:	Approx. 300 sq ft on wet cast concrete
Min. Storage Temperature:	32°F
Min. Application Temperature:	0°F
Surface When Dry:	Flat Black, non-tacky
Shelf Life	6 months

LIMITED WARRANTY

This information is presented in good faith, but we cannot anticipate all conditions under which this information and our products, or the products of other manufacturers in combination with our products, may be used. We accept no responsibility for results obtained by the application of this information or the safety and suitability of our products, either alone or in combination with other products. Users are advised to make their own tests to determine the safety and suitability of each such product or product combinations for their own purposes. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for this own particular use. We sell this product without warranty, and buyers and users assume all responsibility and liability for loss or damage arising from the handling and use of this product, whether used alone or in combination with other products.

P R O D U C T S P E C I F I C A T I O N S



CONSEAL™
Concrete Sealants INC.

CS102

**Butyl Rubber Sealant For All Precast Structures;
Meets Specs.**

APPLICATIONS

For self-sealing joints in: Manholes, Concrete Vaults, Septic Tanks, Concrete Pipe, Box Culverts, Utility Vaults, Burial Vaults, and Vertical Panel Structures.

SEALING PROPERTIES

- Provides permanently flexible watertight joints.
- Low to high temperature workability: 30°F to 120°F (-1°C to 48°C)
- Rugged service temperature: -30°F to +200°F (-34°C to +93°C)
- Excellent chemical and mechanical adhesion to clean, dry surfaces.
- Sealed Joints will not shrink, harden or oxide upon aging.
- No priming normally necessary. When confronted with difficult installation conditions, such as wet concrete or temperatures below 40°F (4°C), priming the concrete will improve the bonding action. Consult Concrete Sealants for the proper primer to meet your application.

HYDROSTATIC STRENGTH

ConSeal CS-102 meets the hydrostatic performance requirement as set forth in ASTM C-990 section 10.1 (Performance requirement: 10psi for 10 minutes in straight alignment – in plant, quality control test for joint materials.)

SPECIFICATIONS

ConSeal CS-102 meets or exceeds the requirements of Federal Specification SS-S-210 (210-A), AASHTO M-198B, and ASTM C-990-91.

PRODUCT SPECIFICATIONS



CONSEAL™
Concrete Sealants INC.

CS102

**Butyl Rubber Sealant For All Precast Structures;
Meets Specs.**

PHYSICAL PROPERTIES

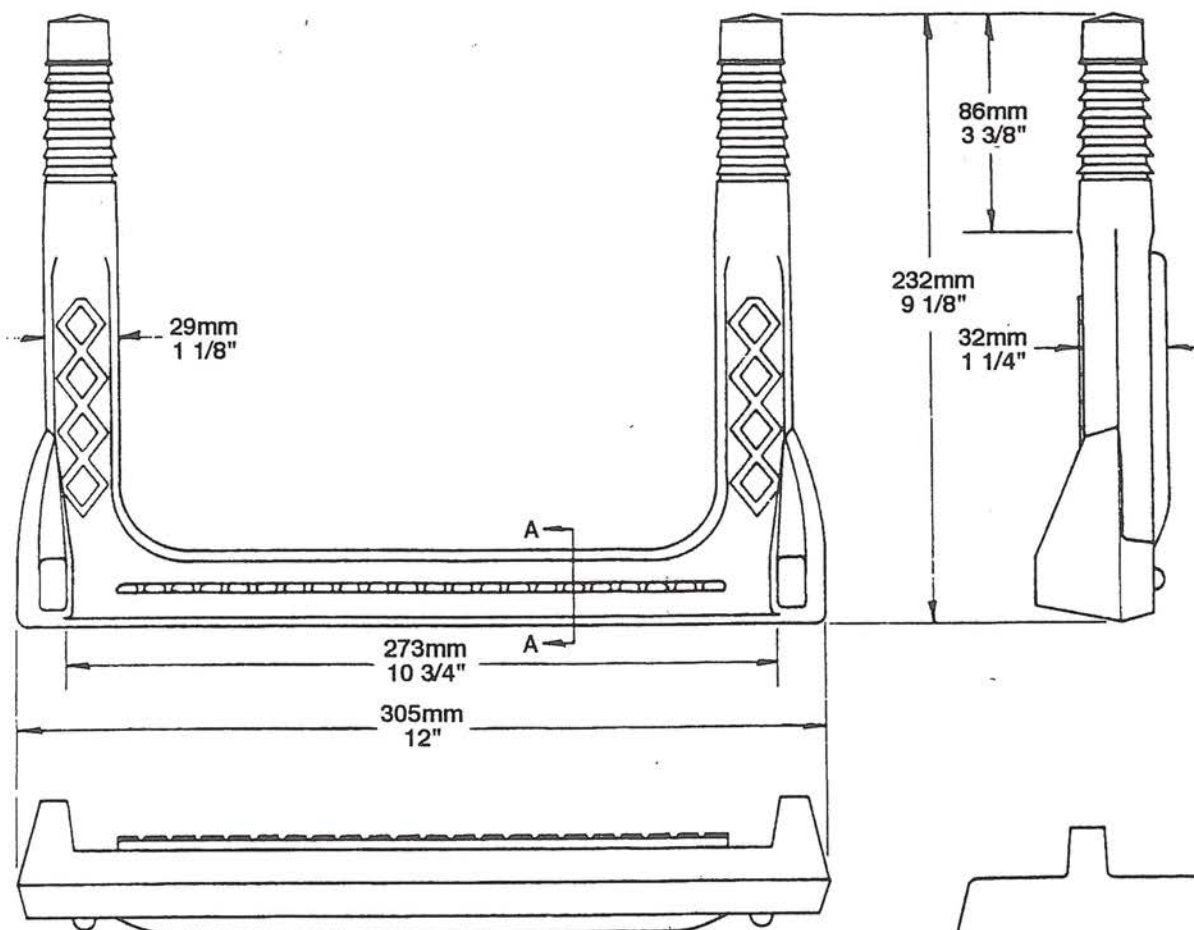
	Spec	Required*	CS 102
Hydrocarbon blend content % by weight	ASTM D4 (mod.)	50% min.	51%
Inert mineral filler % by weight	AASHTO T111	30% min.	35%
Volatile Matter % by weight	ASTM D6	2% max.	1.2
Specific Gravity, 77°F	ASTM D71	1.15-1.50	1.25
Ductility, 77°F	ASTM D113	5.0 min.	10
Penetration, cone 77°F, 150 gm. 5 sec.	ASTM D217	50-100	55-60
Penetration, cone 32°F, 150 gm. 5 sec.	ASTM D217	40 mm	40-65
Flash Point, C.O.C., °F	ASTM D92	350°F min.	450°F
Fire point, C.O.C., °F	ASTM D92	375°F min.	475°F

IMMERSION TESTING

- 30-Day Immersion Testing: No visible deterioration when tested in 5% Caustic Potash, 5% Hydrochloric Acid, 5% Sulfuric Acid, and 5% saturated Hydrogen Sulfide. *
- One Year Immersion Testing: No visible deterioration when tested in 5% Formaldehyde, 5% Formic Acid, 5% Sulfuric Acid, 5% Hydrochloric Acid, 5% Sodium Hydroxide, 5% Hydrogen Sulfide and 5% Potassium Hydroxide.
- Requirements of ASTM C-990 Standard Specification for Joints for Concrete Pipe, Manholes, and Precast Box Sections Using Preformed Flexible Joint Sealants.

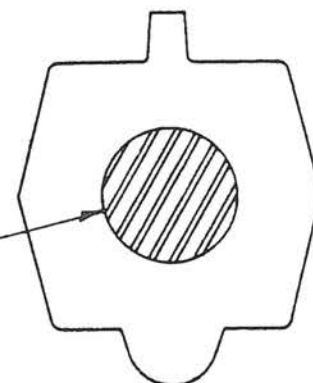
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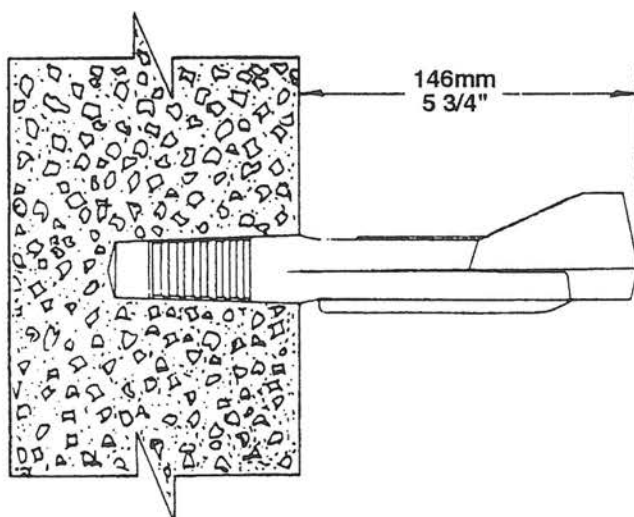


Copolymer Polypropylene Plastic

13mm
1/2" GRADE 60 STEEL REINFORCEMENT

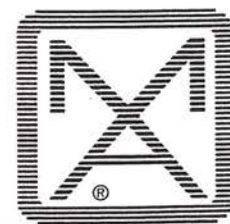


SECTION-A



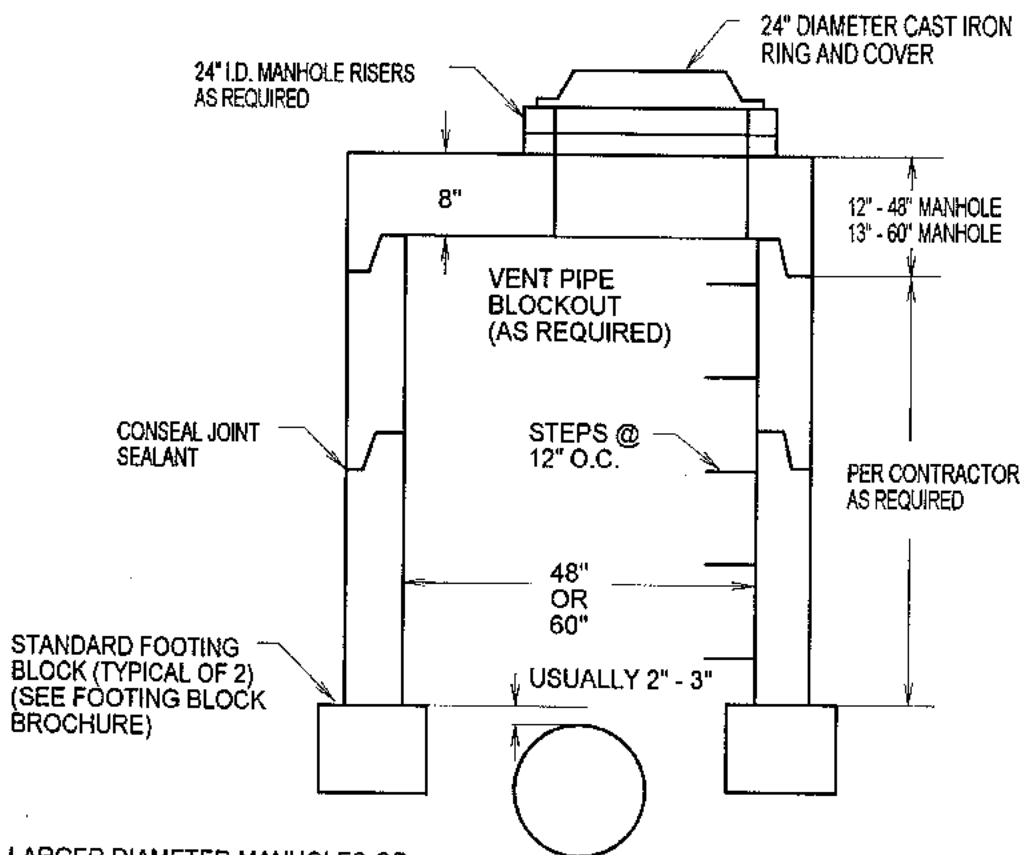
MEETS: ASTM-C-478
ASTM-D-4101
ASTM-A-615
AASHTO-M-199

M. A. INDUSTRIES, INC.



PRECAST CONCRETE MANHOLE FOR AIR VAC 48" OR 60" INSIDE DIAMETER

TYPICAL SECTION



LARGER DIAMETER MANHOLES OR
SQUARE OR RECTANGULAR VAULTS
MAY ALSO BE USED

CONCRETE - 4,000 P.S.I. (MINIMUM)
MANUFACTURED TO ASTM C-478 FOR AASHTO HS-20-44 LOADINGS

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY
DRAWING IS NOT TO SCALE

vaughn
concrete products, inc.

11/97

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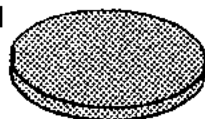
Precast Concrete

MANHOLE

Perforated Ring

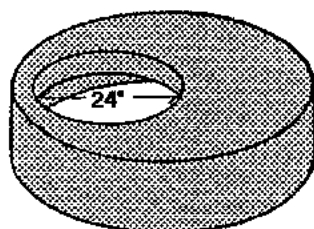
These may be used alone
or interchanged with
solid manholes

Access Lid



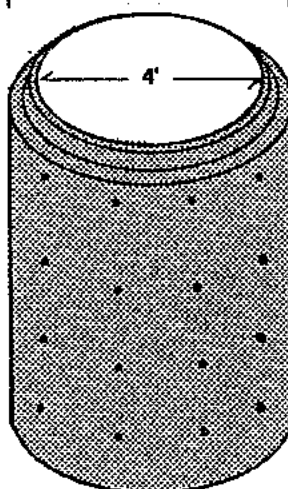
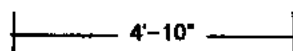
30" or 36" Diameter
3" Thick

Traffic Lid



12" Tall
8" Thick

Standard ring is perforated with
1/2" diameter holes at
approximately 12" O.C.E.W.



All sections are normally
tongue and groove

Available with steps
if needed

Varies in even
foot increments

Inlet and Outlet holes
can be cast in on
special order

The rings may be purchased
with or without a base

Concrete minimum strength 4000 lbs. PSI at 28 days

Weight: 850 lbs. per ft.

Actual dimensions of concrete products may vary slightly

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PRECAST CONCRETE

PADVAVLT - SINGLE PHASE

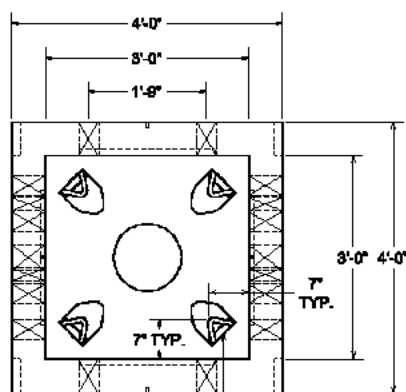
3'-0" WIDE X 3'-0" LONG X 3'-2" TALL INSIDE DIMENSIONS

EQUAL TO PACIFICORP ZG 501

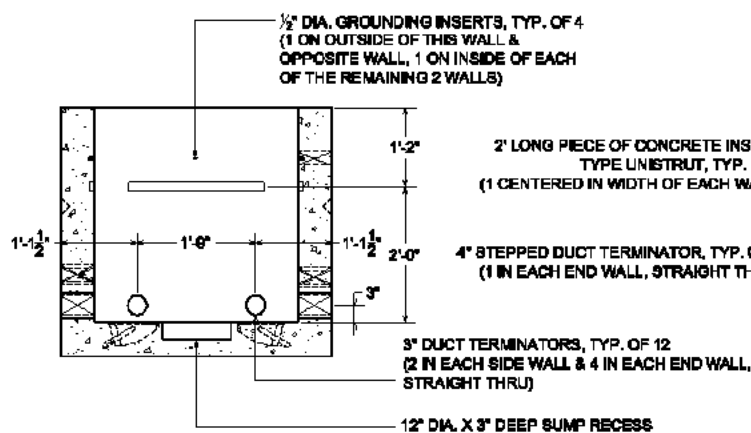
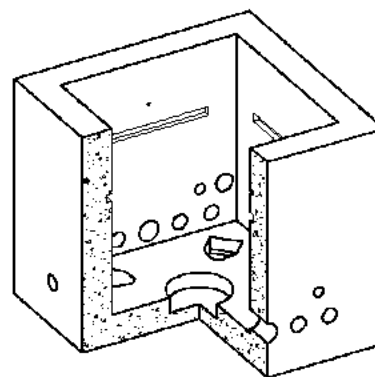
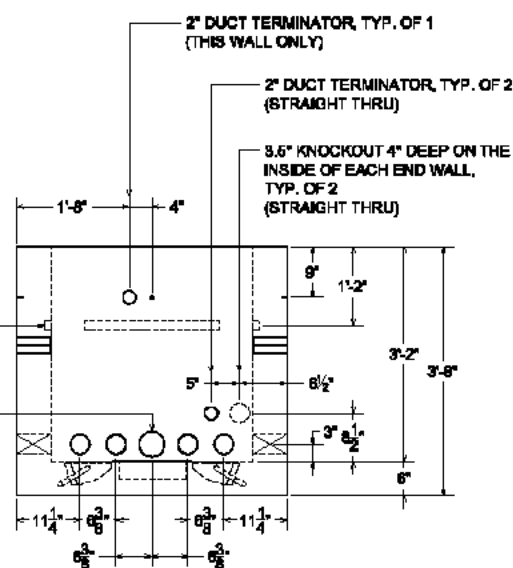
PAD OPTIONS:

- SECTIONALIZER CABINET PAD, SEE SHEET 2
- TRANSFORMER PAD, SEE SHEET 2

SHEET 1 OF 2

**PLAN VIEW**

4 POLYPROPYLENE ENCASED STEEL
PULLING IRONS WITH POCKETS
CAST IN THE FLOOR

**SECTION VIEW****END ELEVATION VIEW****WEIGHT:**

- VAULT WEIGHS APPX. 4,500 LBS.

NOTES:

- CONCRETE: 5000 P.S.I. MINIMUM
- REINFORCING: GRADE 60 MINIMUM
REINFORCED WITH #4 @ 12" O.C.E.W.

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

LIFTING DETAILS:

VAULT TO LIFT WITH:

- (4) LIFT NOTCHES
- (4) PULLING IRONS IN THE FLOOR

DRAWING NOT TO SCALE

3/3 PADVAVLT.DWG
DATE CREATED: 10/09
UPDATED: -----

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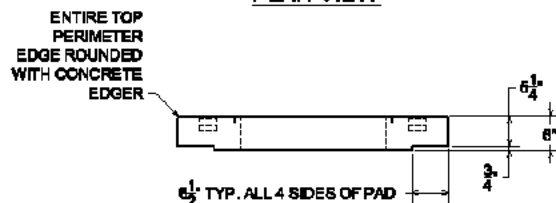
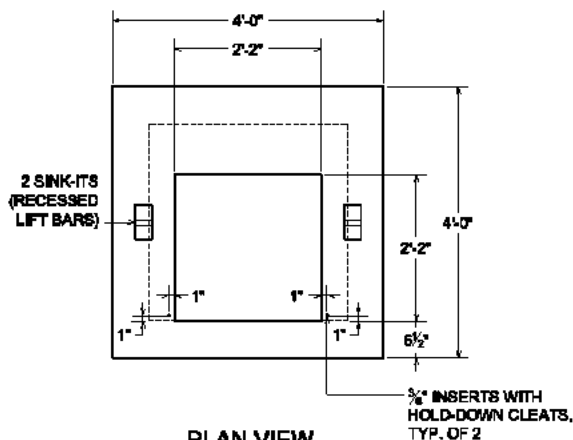
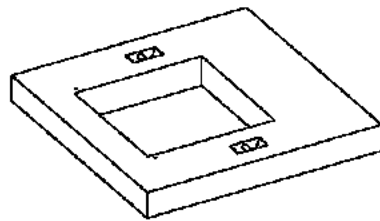
PRECAST CONCRETE

PADVULT - SINGLE PHASE

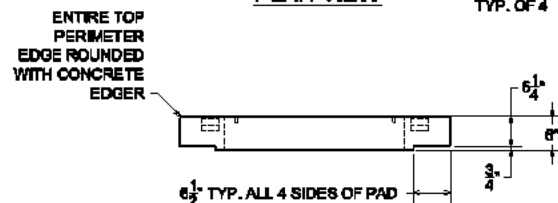
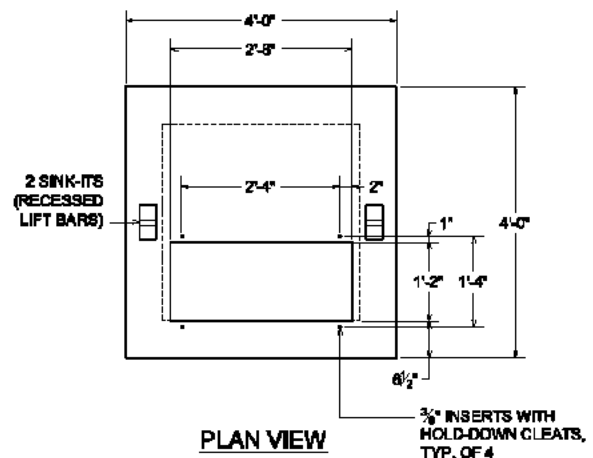
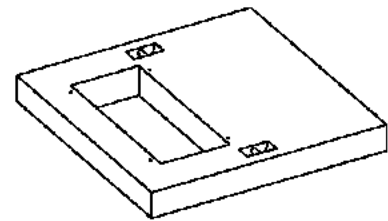
3'-0" WIDE X 3'-0" LONG X 3'-2" TALL INSIDE DIMENSIONS

EQUAL TO PACIFICORP ZG 501

SHEET 2 OF 2

**TRANSFORMER PAD**

LIFT WITH 2 SINK-ITS
(RECESSED LIFT BARS)
WEIGHT: 775 LBS.

**SECTIONALIZER CABINET PAD**

LIFT WITH 2 SINK-ITS
(RECESSED LIFT BARS)
WEIGHT: 900 LBS.

NOTES:

- CONCRETE: 5000 P.S.I. MINIMUM
- REINFORCING: GRADE 60 MINIMUM
REINFORCED WITH #4 @ 12" O.C.E.W.

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

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DRAWING NOT TO SCALE

3x3 PADVALTING
DATE CREATED: 10/09
UPDATED: -----

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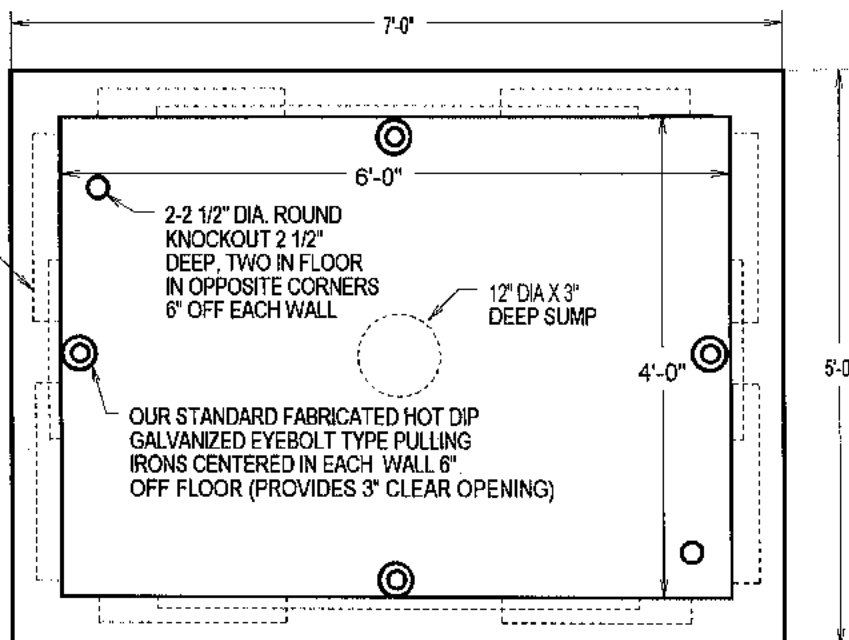
www.vaughnconcreteproducts.com

PRECAST PAD AND VAULT

4' WIDE X 6' LONG X 44" HIGH INSIDE DIMENSIONS

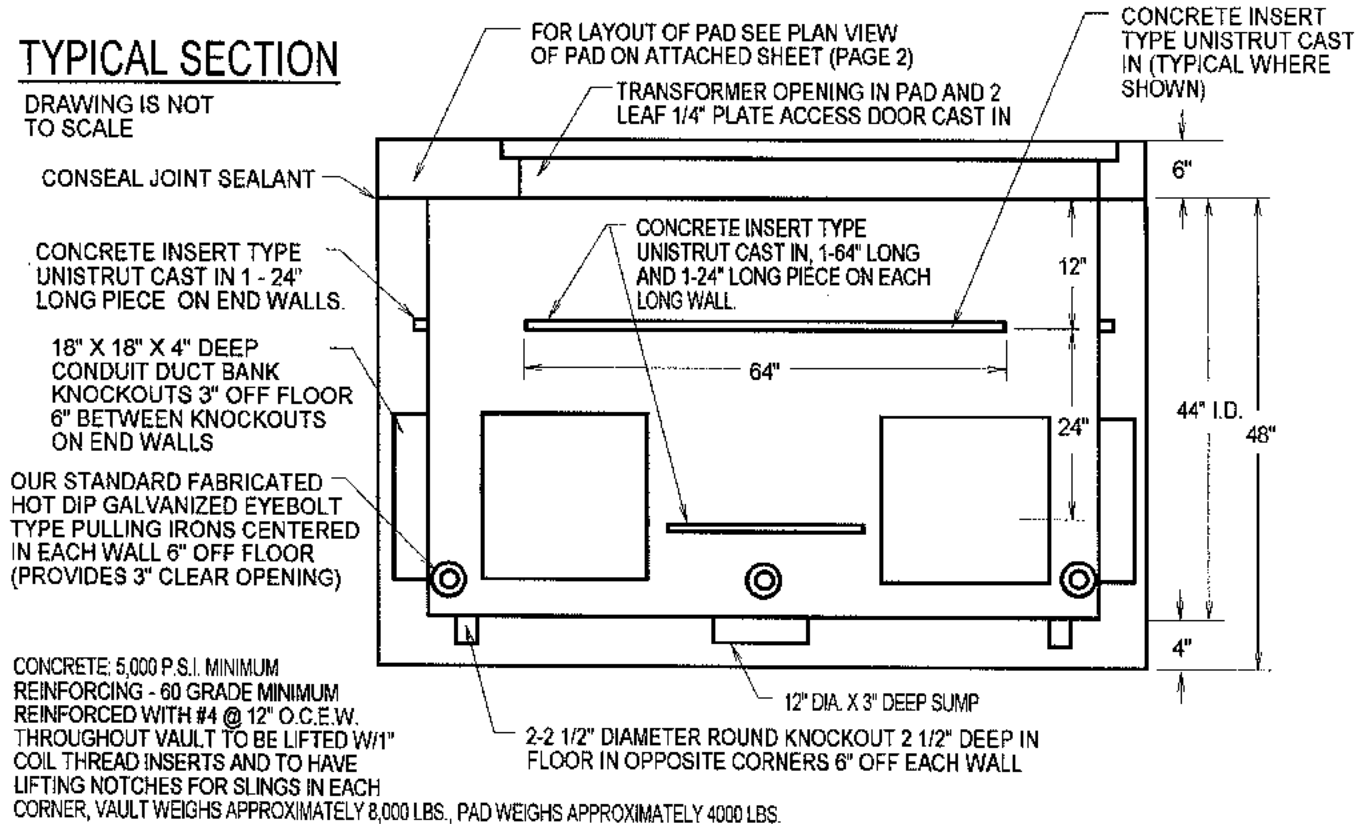
PLAN VIEW OF VAULT ONLY

18" X 18" X 4" DEEP CONDUIT DUCT BANK KNOCKOUTS ARE 6" OUT OF INSIDE CORNER ON LONG WALLS AND 3" OUT OF INSIDE CORNER ON END WALLS. ALL KNOCKOUTS ARE 3" OFF FLOOR.



TYPICAL SECTION

DRAWING IS NOT TO SCALE



ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

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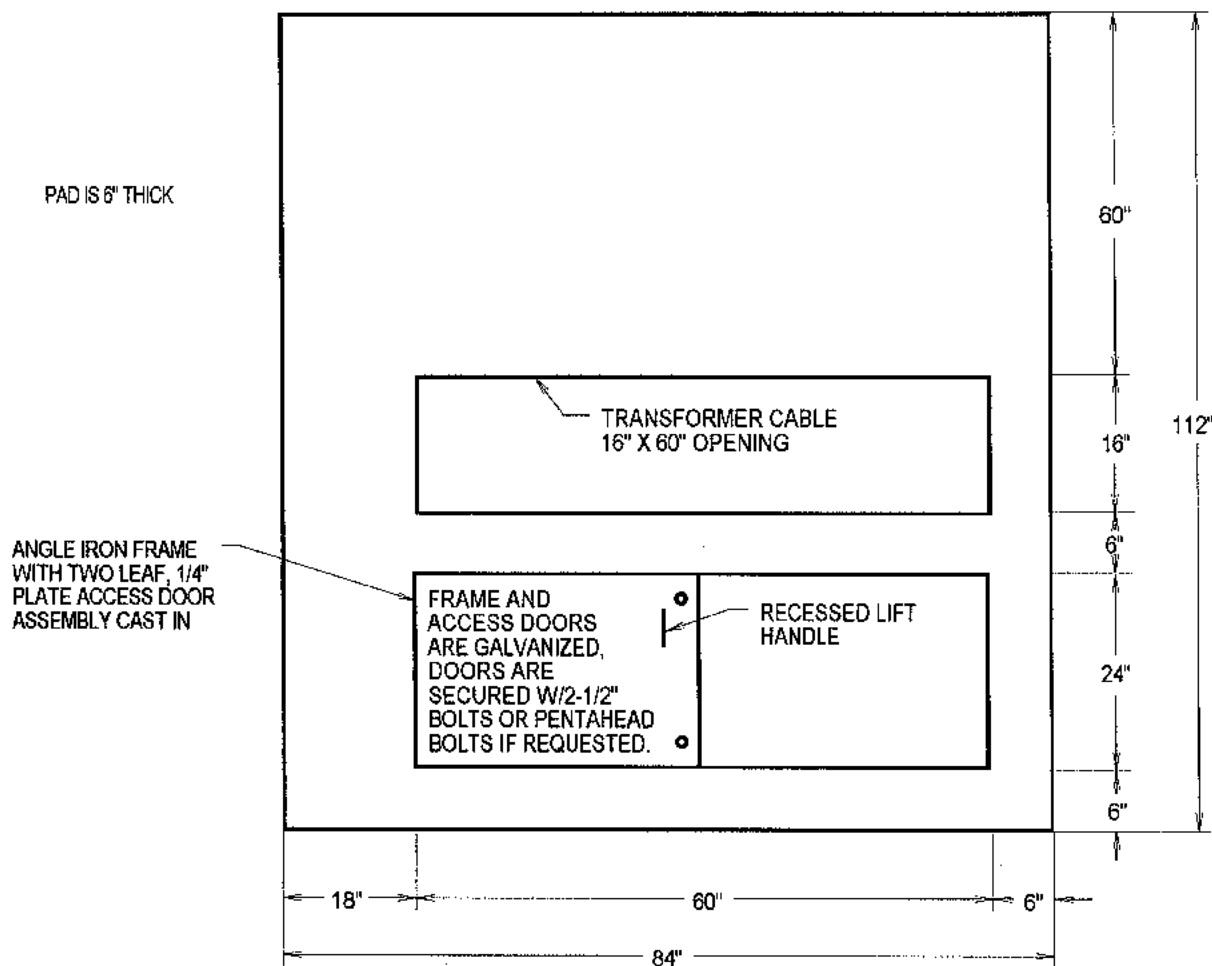
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PRECAST PAD AND VAULT

PAD DETAIL

PLAN VIEW OF PAD

DRAWING IS NOT TO SCALE



CONCRETE - 5,000 P.S.I. MINIMUM
REINFORCING - GRADE 60 MINIMUM
PAD TO LIFT W/1" COIL THREAD INSERTS AND IS PROVIDED WITH TRANSFIX LIFTERS
PAD WEIGHS APPROXIMATELY 4,000 LBS.

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

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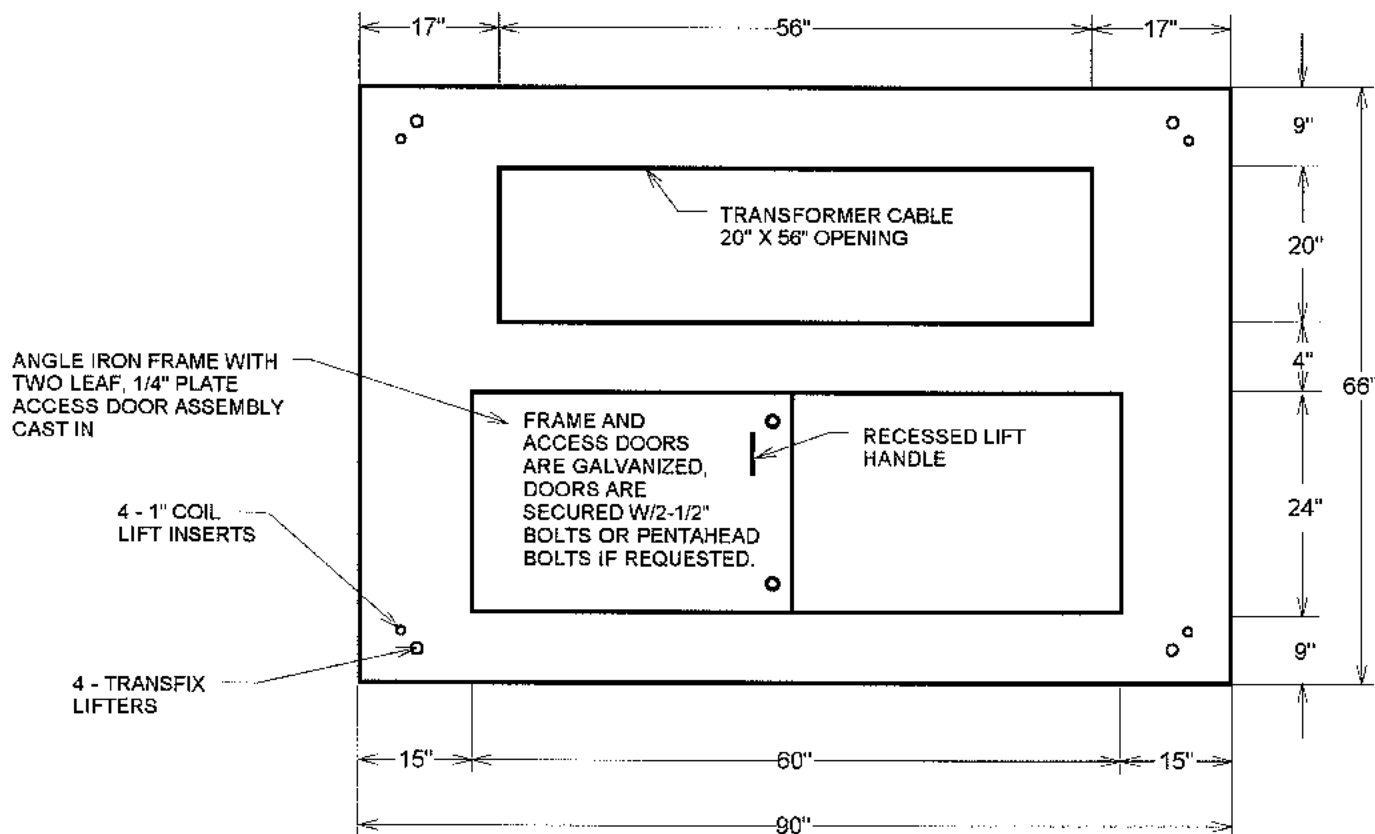
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PAD AND VAULT

ALTERNATE PAD DETAIL

PLAN VIEW OF PAD

DRAWING IS NOT TO SCALE



CONCRETE - 5,000 P.S.I. MINIMUM

REINFORCING - GRADE 60 MINIMUM

LID TO LIFT W/1" COIL THREAD INSERTS
AND IS PROVIDED WITH TRANSFIX LIFTERS

LID WEIGHS APPROXIMATELY 2,000 LBS.

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

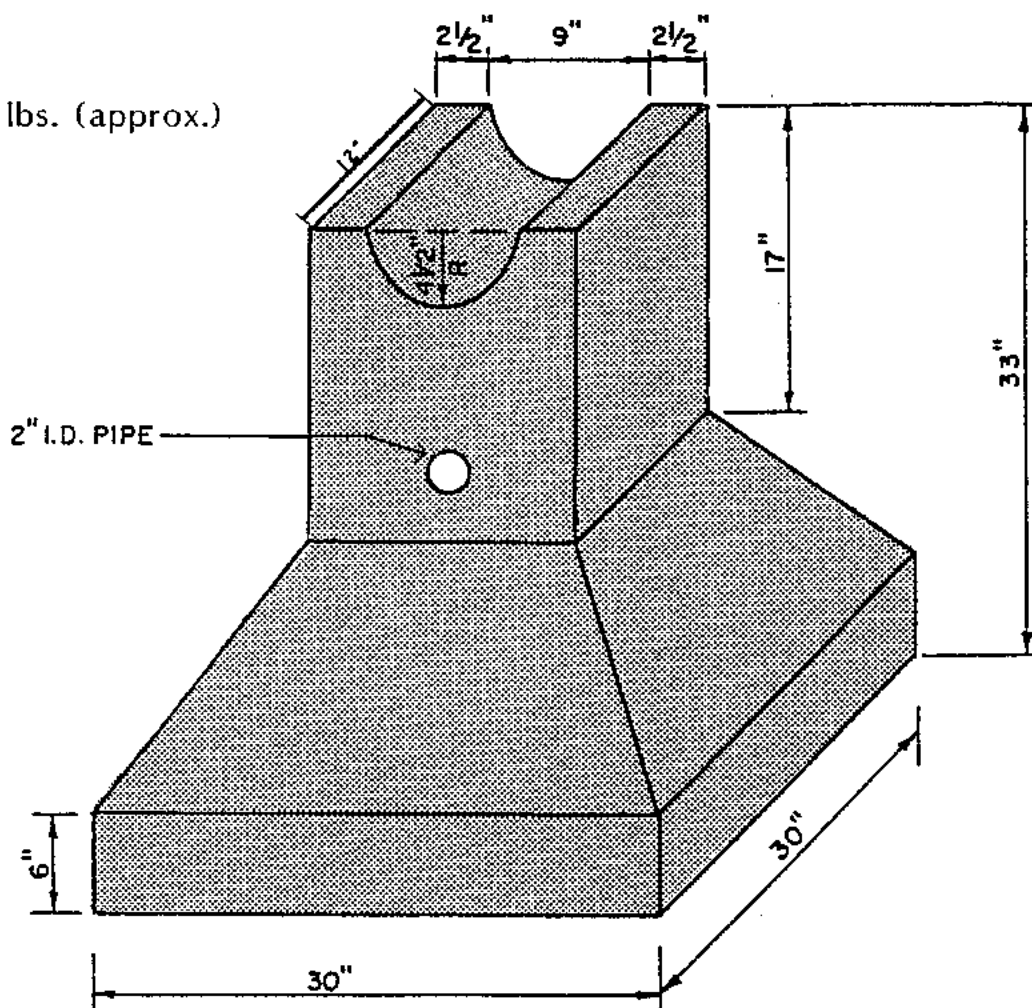
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concrete products, inc.

UPDATED 12/00
4X6X44PDALT.SKF

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Precast Concrete POLE RACK

1,100 lbs. (approx.)



- Meets most Public Utility Companies' specifications
- Easy handling and placement
- High quality casting: smooth, uniform finish
- Maximum versatility: Can be used for both permanent or temporary locations

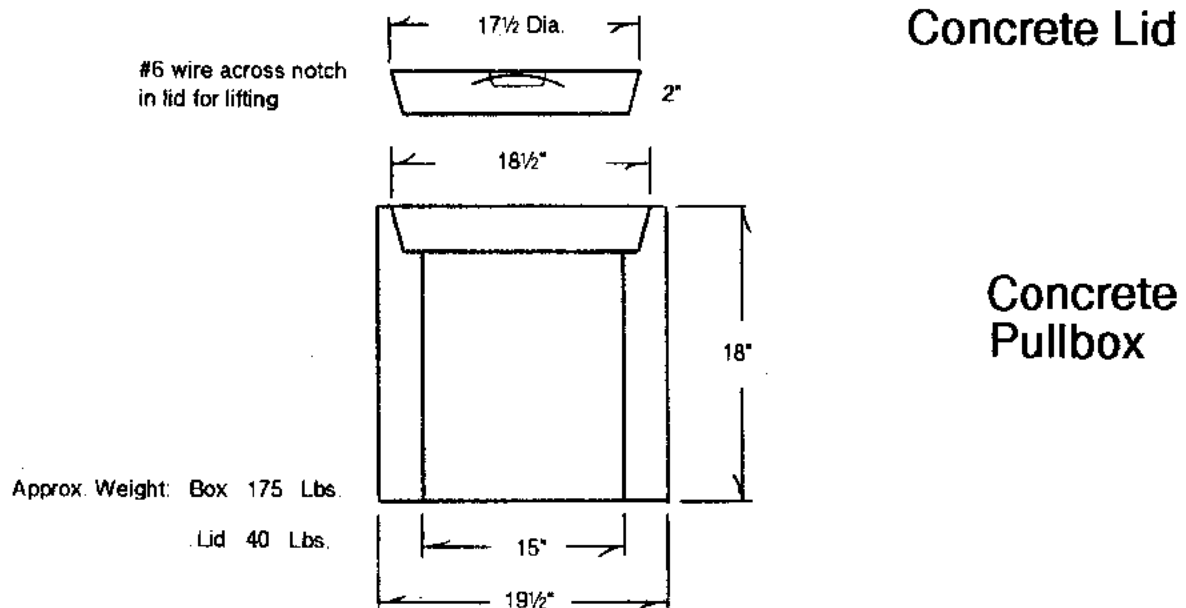
actual dimensions of concrete products may vary slightly

Vaughn
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ROUND PULLBOX

15" Inside Diameter



Section View Shown

Concrete - 4000 PSI
Reinforcing - 6x6x 6/6 Welded Wire Fabric

Actual dimensions of concrete products may vary slightly.

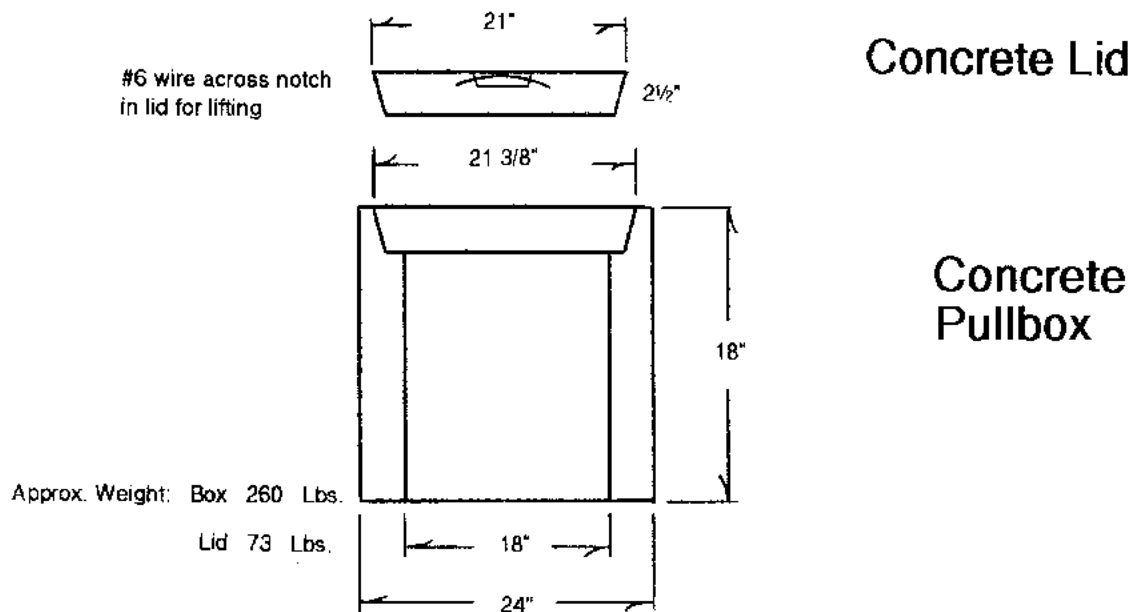
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UPDATED 11/97

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ROUND PULLBOX

18" Inside Diameter



Section View Shown

Concrete - 4000 PSI
Reinforcing - 6x6x 6/6 Welded Wire Fabric

Actual dimensions of concrete products may vary slightly.

Vaughn
concrete products, inc.

UPDATED 11/97

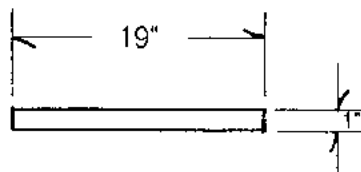
12650 Tucson Street • Henderson, Colorado 80640 • 303-659-3747, Fax 303-659-1333
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10021 Amarillo Blvd. East • Amarillo, Texas 79107 • 806-374-3747, Fax 806-335-3717

Precast Concrete

ROUND PULLBOX

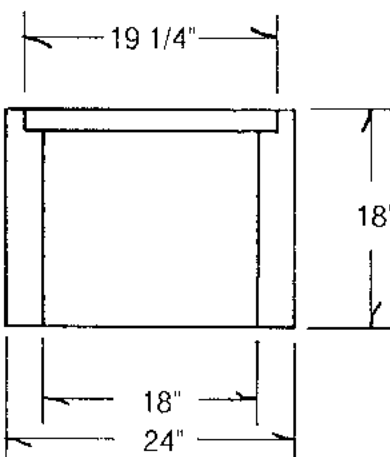
WITH CAST IRON COVER
FOR TRAFFIC AREAS
18" INSIDE DIAMETER

Available with cover marked
electric or blank



**Cast Iron Cover With
Pick Bar For Lifting**

Cast iron ring cast in box



Concrete Pullbox

Approximate weight
Box with ring 290 lbs

Cast iron cover - 65 lbs

Section View Shown

Concrete - 4000 PSI (Minimum)

Reinforcing - 6x6x6/6 Welded Wire Fabric

Actual dimensions of concrete products may vary slightly

**Vaughn
concrete products, inc.**

UPDATED 11/97

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PRECAST CONCRETE

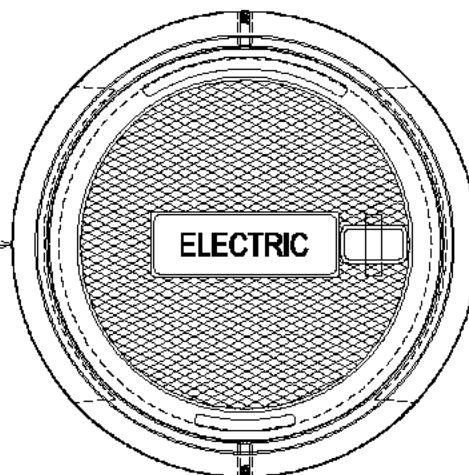
ROUND PULLBOX/HANDHOLE

24" INSIDE DIAMETER

VCP ITEM #2020 ROUND PULLBOX

MANUFACTURED TO ASTM C-478

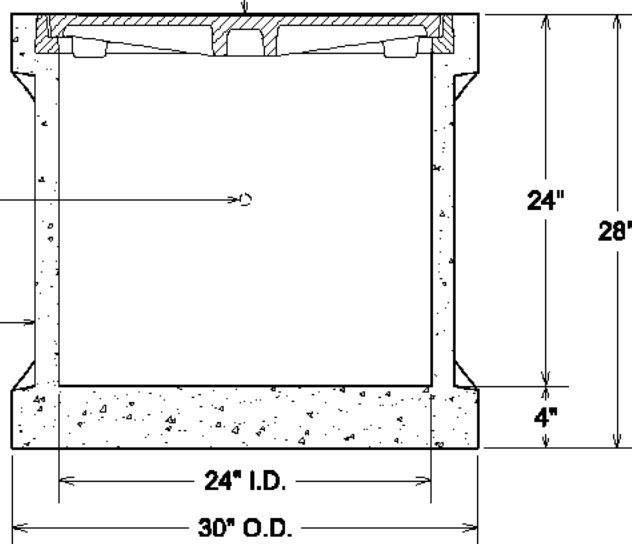
1½" DEEP RECESSED
KNOCKOUTS 20" DIAMETER AT
FLOOR LEVEL, TYP. OF 2

PLAN VIEW

OUR STANDARD CAST IRON RING & COVER CAST IN
(COVER WEIGHS APPX. 115 LBS.)

¾" STANDARD THREAD LIFTING INSERTS
CAST IN, TYP. OF 2

1½" DEEP RECESSED
KNOCKOUTS 20" DIAMETER AT
FLOOR LEVEL, TYP. OF 2

SECTION VIEWWEIGHTS:

- COMPLETE PULLBOX WEIGHS APPX. 850 LBS.
- COVER WEIGHS APPX. 115 LBS.

NOTES:

- CONCRETE: 4000 P.S.I. MINIMUM
- REINFORCING: GRADE 60 MINIMUM
- SUITABLE FOR OCCASIONAL AASHTO HS-20-44 LOADINGS
WHEN PLACED ON MATERIAL CAPABLE OF SUPPORTING
THE LOADINGS

EXCAVATION TO BE PROPERLY
PREPARED WITH SUITABLE MATERIAL
TO PLACE STRUCTURE ONTO

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

DRAWING NOT TO SCALE

PULLBOX-24 DIAMETER.DWG
DATE CREATED: 12/08
UPDATED: -----

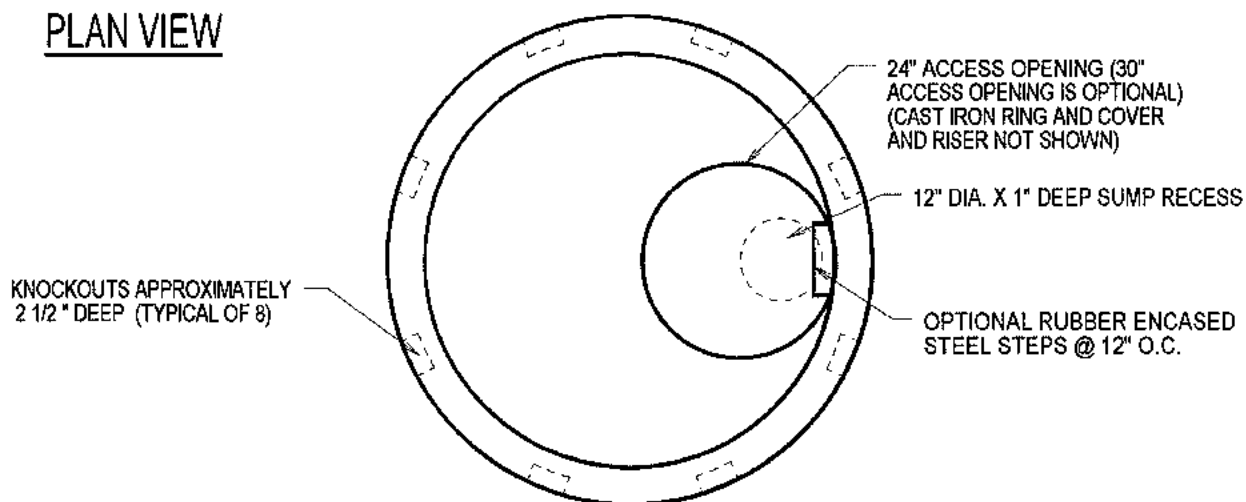
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concrete products, inc.

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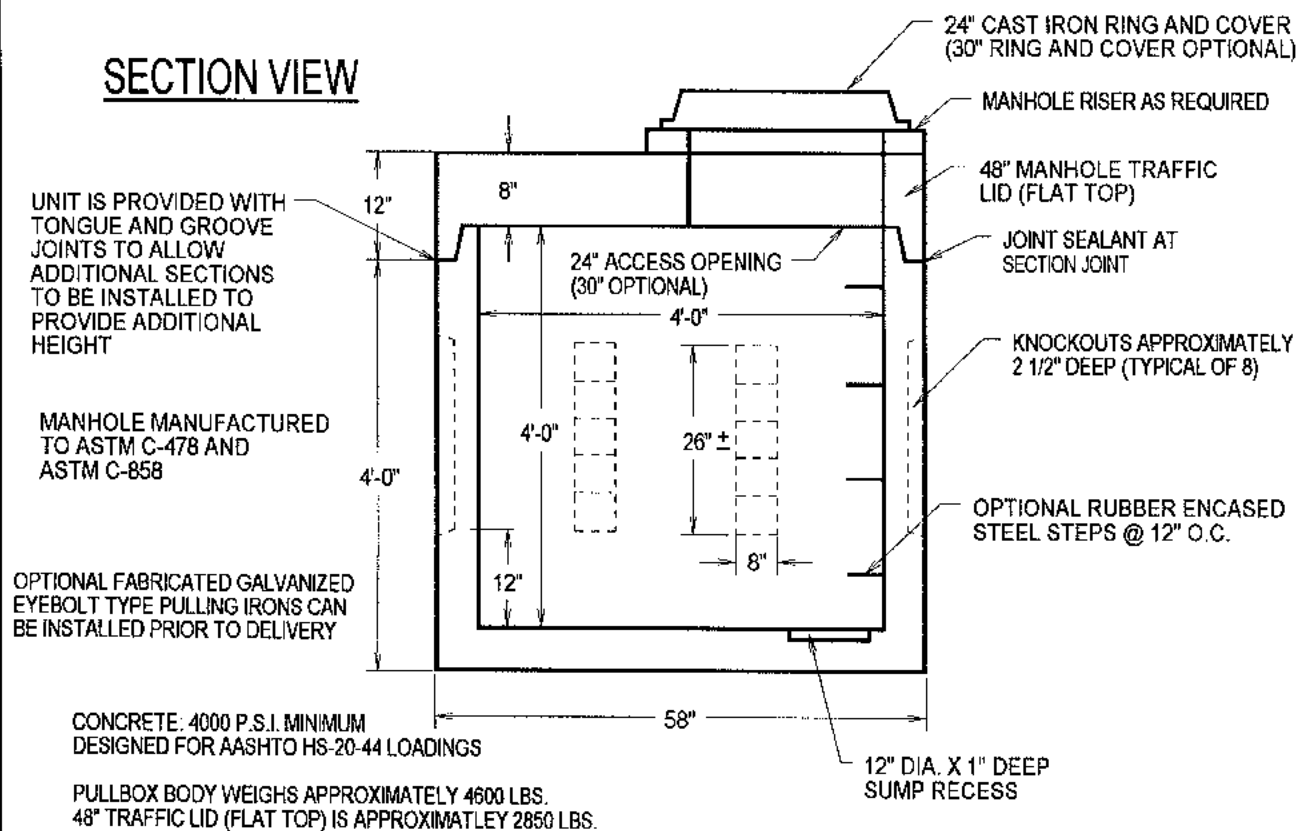
PRECAST CONCRETE PULLBOX

48" INSIDE DIAMETER

PLAN VIEW



SECTION VIEW

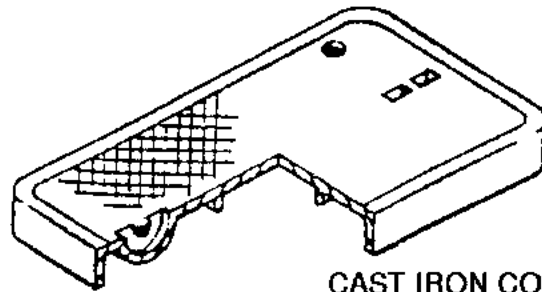


ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY
DRAWING IS NOT TO SCALE

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concrete products, inc.

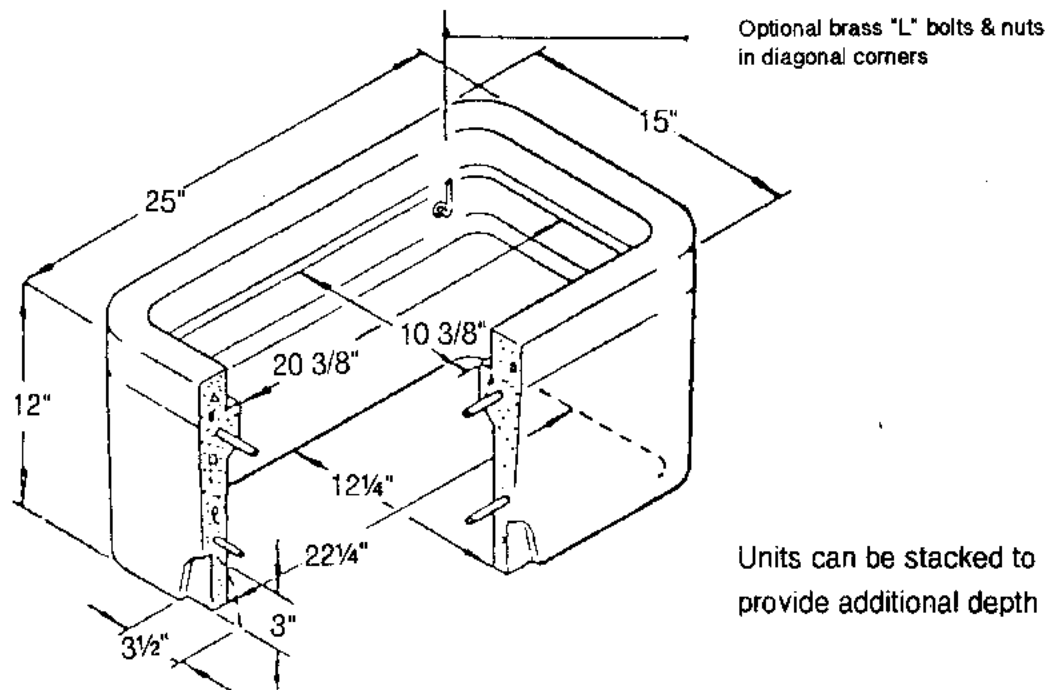
11/98

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#5 PULL BOX

CAST IRON COVER FOR H-20 LOADING

Approx. Weight: Box 85 Lbs.
Lid 40 Lbs.



Actual dimensions of concrete products may vary slightly.

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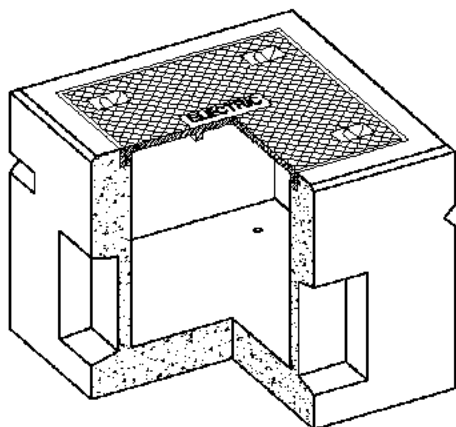
PRECAST CONCRETE

PULLBOX/HANDHOLE

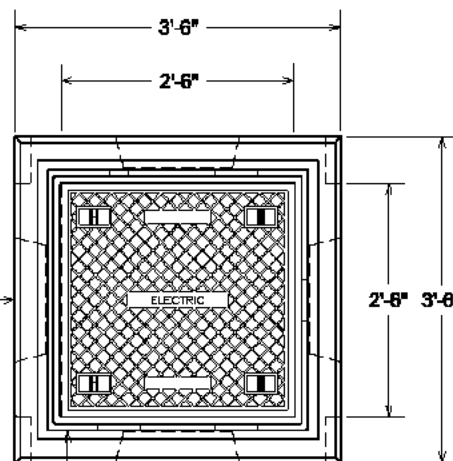
2'-6" WIDE X 2'-6" LONG X 2'-6" OR 3'-0" HIGH

INSIDE DIMENSIONS WITH FLOOR

VCP ITEM #252525 OR #252530 PULLBOX



14"x14"x4" DEEP CONDUIT
KNOCKOUTS AT FLOOR LEVEL,
CENTERED IN WIDTH OF EACH
WALL, TYP. OF 4

**PLAN VIEW**

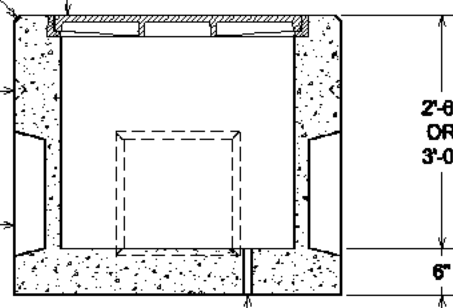
OUR STANDARD CAST IRON
FRAME & COVER CAST IN

ENTIRE TOP PERIMETER
EDGE IS CHAMFERED

PROVIDED WITH LIFT NOTCHES
FOR HANDLING, TYP. OF 4

14"x14"x4" DEEP CONDUIT
KNOCKOUTS AT FLOOR LEVEL,
CENTERED IN WIDTH OF EACH
WALL, TYP. OF 4

1" SLEEVE CAST IN FOR
GROUND ROD, 6" OFF EACH
INSIDE WALL OF VAULT

**SECTION VIEW****WEIGHTS:**

- COMPLETE 2'-6" DEEP PULLBOX WEIGHS APPX. 3,200 LBS.
- COMPLETE 3'-0" DEEP PULLBOX WEIGHS APPX. 3,700 LBS.
- CAST IRON COVER ONLY WEIGHS APPX. 300 LBS.

NOTES:

- CONCRETE: 4000 P.S.I. MINIMUM
- REINFORCING: GRADE 60 MINIMUM
- FLOOR & WALLS TO BE 6" THICK
- SUITABLE FOR AASHTO HS-20-44 LOADINGS WHEN PLACED ON MATERIAL CAPABLE OF SUPPORTING THE LOADINGS

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

vaughn
concrete products, inc.

DRAWING NOT TO SCALE

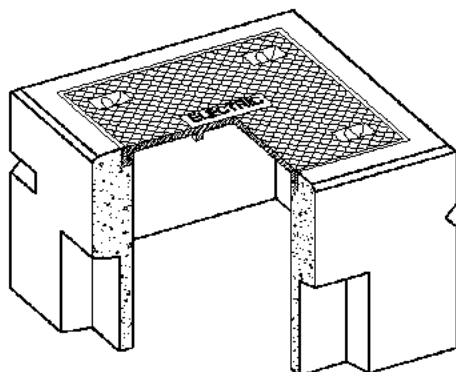
2-6X2-6 PULLBOX.DWG
DATE CREATED: 12/08
UPDATED: -----

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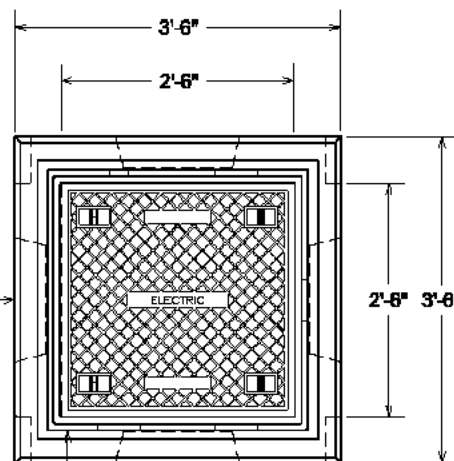
PRECAST CONCRETE

PULLBOX/HANDHOLE

2'-6" WIDE X 2'-6" LONG X 2'-6" HIGH
 INSIDE DIMENSIONS WITHOUT FLOOR
 VCP ITEM #252525NF PULLBOX



14"x14"x4" DEEP CONDUIT
 KNOCKOUTS AT BOTTOM OF BOX,
 CENTERED IN WIDTH OF EACH WALL,
 TYP. OF 4

**PLAN VIEW**

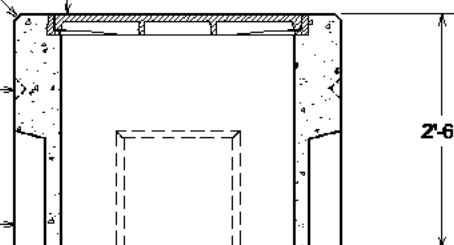
OUR STANDARD CAST IRON
 FRAME & COVER CAST IN

ENTIRE TOP PERIMETER
 EDGE IS CHAMFERED

PROVIDED WITH LIFT NOTCHES
 FOR HANDLING, TYP. OF 4

14"x14"x4" DEEP CONDUIT
 KNOCKOUTS AT BOTTOM OF BOX,
 CENTERED IN WIDTH OF EACH WALL,
 TYP. OF 4

OPEN BOTTOM, NO FLOOR

**SECTION VIEW****WEIGHTS:**

- COMPLETE PULLBOX WEIGHS APPX. 2,250 LBS.
- CAST IRON COVER ONLY WEIGHS APPX. 300 LBS.

NOTES:

- CONCRETE: 4000 P.S.I. MINIMUM
- REINFORCING: GRADE 60 MINIMUM
- WALLS TO BE 6" THICK
- SUITABLE FOR AASHTO HS-20-44 LOADINGS WHEN PLACED ON MATERIAL CAPABLE OF SUPPORTING THE LOADINGS

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

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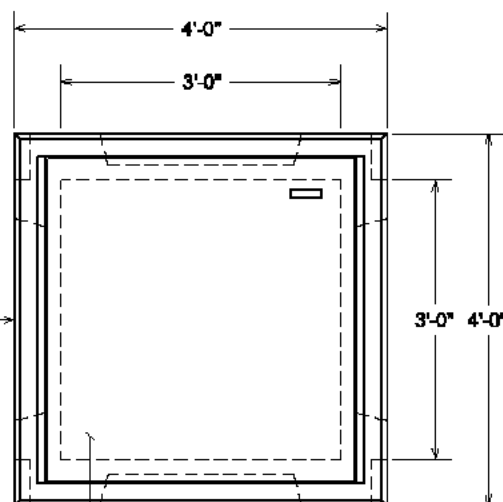
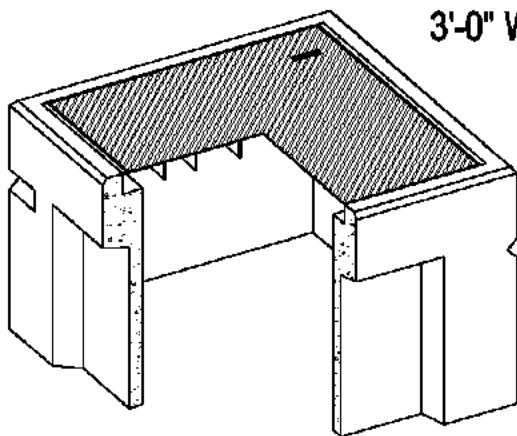
DRAWING NOT TO SCALE

2-6X2-6 PULLBOX-NF.DWG
 DATE CREATED: 12/08
 UPDATED: -----

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PRECAST CONCRETE SPLICE BOX

3'-0" WIDE X 3'-0" LONG X 3'-0" HIGH INSIDE DIMENSIONS
WITHOUT FLOOR
VCP ITEM #SB303030NF



PLAN VIEW

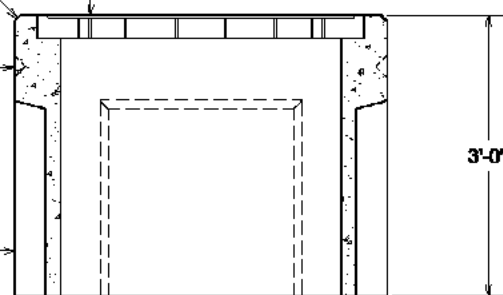
24"x24"x4" DEEP CONDUIT
KNOCKOUTS AT FLOOR LEVEL,
CENTERED IN WIDTH OF EACH
WALL, TYP. OF 4

GALVANIZED STEEL FRAME WITH HINGED $\frac{1}{4}$ " STEEL
DIAMOND PLATE COVER WITH DROP HANDLE, SUITABLE
FOR OCCASIONAL H-20 LOADINGS
(NOT DESIGNED FOR HIGH DENSITY TRAFFIC)
SPRING ASSISTED COVER WITH STAND, COVER BOLTS
CLOSED WITH TWO $\frac{1}{2}$ " BOLTS

ENTIRE TOP PERIMETER
EDGE IS CHAMFERED

PROVIDED WITH LIFT NOTCHES
FOR HANDLING, TYP. OF 4

24"x24"x4" DEEP CONDUIT
KNOCKOUTS AT FLOOR LEVEL,
CENTERED IN WIDTH OF EACH
WALL, TYP. OF 4



SECTION VIEW

OPEN BOTTOM, NO FLOOR

NOTES:

- CONCRETE: 4000 P.S.I. MINIMUM
- REINFORCING: GRADE 60 MINIMUM
- WALLS TO BE 6" THICK
- SUITABLE FOR OCCASIONAL AASHTO HS-20-44 LOADINGS
WHEN PLACED ON MATERIAL CAPABLE OF SUPPORTING
THE LOADINGS

UNIT WEIGHS APPROXIMATELY 2,800 LBS.

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

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DRAWING NOT TO SCALE

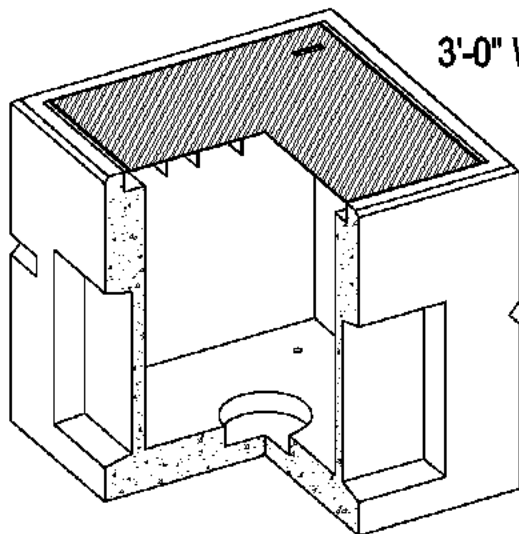
3'X3'X3' SPLICE BOX-NF.DWG
DATE CREATED: 11/04
UPDATED: 11/08

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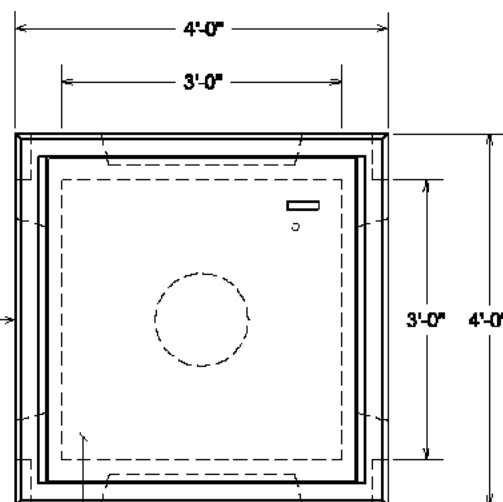
PRECAST CONCRETE SPLICE BOX

3'-0" WIDE X 3'-0" LONG X 3'-6" HIGH INSIDE DIMENSIONS

VCP ITEM #SB303035



24"x24"x4" DEEP CONDUIT
KNOCKOUTS AT FLOOR LEVEL,
CENTERED IN WIDTH OF EACH
WALL, TYP. OF 4



PLAN VIEW

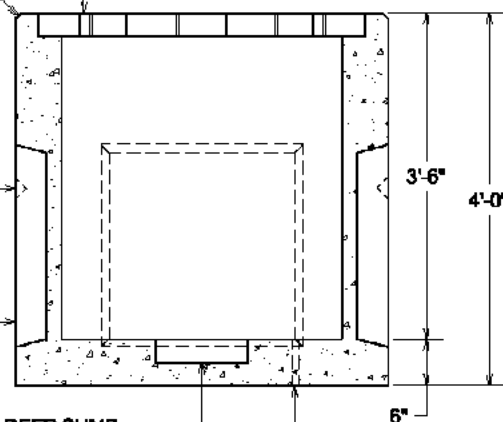
GALVANIZED STEEL FRAME WITH HINGED $\frac{1}{2}$ " STEEL
DIAMOND PLATE COVER WITH DROP HANDLE SUITABLE
FOR OCCASIONAL H-20 LOADINGS
(NOT DESIGNED FOR HIGH DENSITY TRAFFIC)
SPRING ASSISTED COVER WITH STAND, COVER BOLTS
CLOSED WITH TWO $\frac{1}{2}$ " BOLTS

ENTIRE TOP PERIMETER
EDGE IS CHAMFERED

PROVIDED WITH LIFT NOTCHES
FOR HANDLING, TYP. OF 4

SECTION VIEW

24"x24"x4" DEEP CONDUIT
KNOCKOUTS AT FLOOR LEVEL,
CENTERED IN WIDTH OF EACH
WALL, TYP. OF 4



12" DIAMETER X 3" DEEP SUMP
RECESS IN CENTER OF FLOOR

1" PVC SLEEVE CAST IN FOR GROUND ROD,
6" OFF EACH INSIDE WALL OF VAULT

NOTES:

- CONCRETE: 4000 P.S.I. MINIMUM
- REINFORCING: GRADE 60 MINIMUM
- WALLS & FLOOR TO BE 6" THICK
- SUITABLE FOR OCCASIONAL AASHTO HS-20-44 LOADINGS
WHEN PLACED ON MATERIAL CAPABLE OF SUPPORTING
THE LOADINGS

UNIT WEIGHS APPROXIMATELY 3,700 LBS.

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

DRAWING NOT TO SCALE

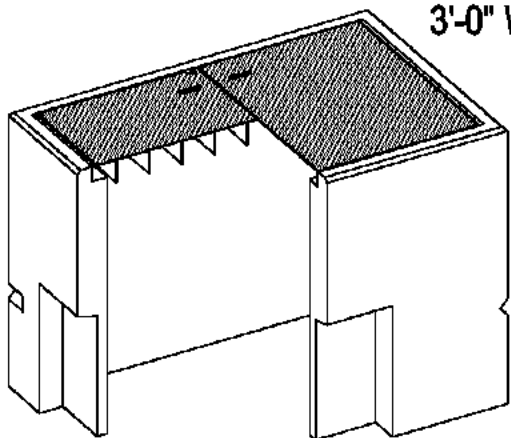
303035-6 SPLICE BOX/DWG
DATE CREATED: 11/04
UPDATED: 11/08

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PRECAST CONCRETE SPLICE BOX

3'-0" WIDE X 5'-0" LONG X 3'-6" HIGH INSIDE DIMENSIONS
WITHOUT FLOOR
VCP ITEM #SB305035NF



24"x24"x4" DEEP CONDUIT
KNOCKOUTS AT FLOOR LEVEL,
CENTERED IN WIDTH OF EACH
WALL, TYP. OF 4

GALVANIZED STEEL FRAME WITH HINGED $\frac{1}{2}$ " STEEL
DIAMOND PLATE COVERS WITH DROP HANDLES
SUITABLE FOR OCCASIONAL H-20 LOADINGS
(NOT DESIGNED FOR HIGH DENSITY TRAFFIC)
SPRING ASSISTED COVER WITH STAND, COVERS
BOLT CLOSED WITH TWO $\frac{1}{2}$ " BOLTS

ENTIRE TOP PERIMETER
EDGE IS CHAMFERED

PROVIDED WITH LIFT NOTCHES
FOR HANDLING, TYP. OF 4

SECTION VIEW

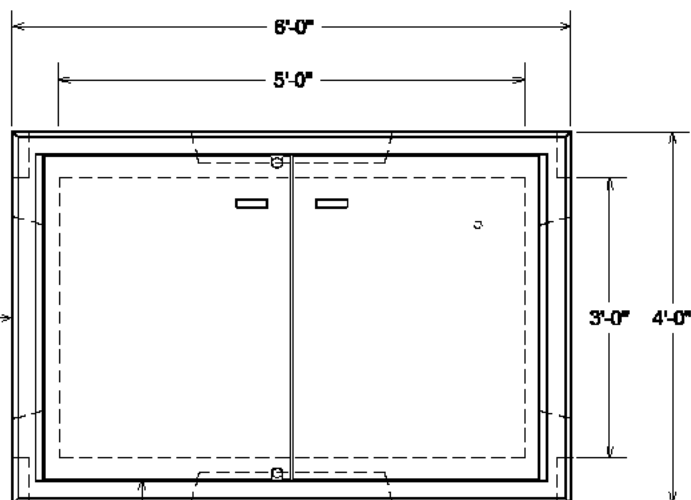
24"x24"x4" DEEP CONDUIT
KNOCKOUTS AT FLOOR LEVEL,
CENTERED IN WIDTH OF EACH
WALL, TYP. OF 4

NOTES:

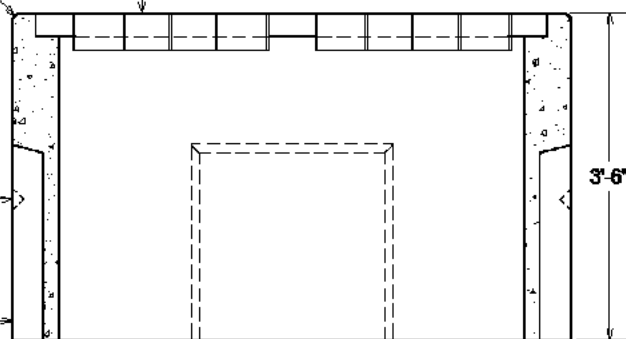
- CONCRETE: 4000 P.S.I. MINIMUM
- REINFORCING: GRADE 80 MINIMUM
- WALLS TO BE 6" THICK
- SUITABLE FOR OCCASIONAL AASHTO HS-20-44 LOADINGS
WHEN PLACED ON MATERIAL CAPABLE OF SUPPORTING
THE LOADINGS

UNIT WEIGHS APPROXIMATELY 4,200 LBS.

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY



PLAN VIEW



BOTTOM OF VAULT
PROVIDED OPEN & FLAT

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DRAWING NOT TO SCALE

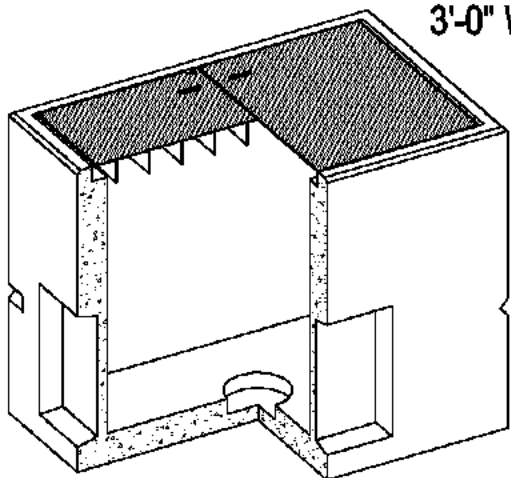
3X5X3-6 SPLICE BOXING
DATE CREATED: 11/04
UPDATED: 12/09

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PRECAST CONCRETE SPLICE BOX

3'-0" WIDE X 5'-0" LONG X 3'-6" HIGH INSIDE DIMENSIONS

VCP ITEM #SB305035



24"x24"x4" DEEP CONDUIT
KNOCKOUTS AT FLOOR LEVEL,
CENTERED IN WIDTH OF EACH
WALL, TYP. OF 4

GALVANIZED STEEL FRAME WITH HINGED $\frac{1}{4}$ " STEEL
DIAMOND PLATE COVERS WITH DROP HANDLES
SUITABLE FOR OCCASIONAL H-20 LOADINGS
(NOT DESIGNED FOR HIGH DENSITY TRAFFIC)
SPRING ASSISTED COVER WITH STAND, COVERS
BOLT CLOSED WITH TWO $\frac{1}{2}$ " BOLTS

ENTIRE TOP PERIMETER
EDGE IS CHAMFERED

PROVIDED WITH LIFT NOTCHES
FOR HANDLING, TYP. OF 4

SECTION VIEW

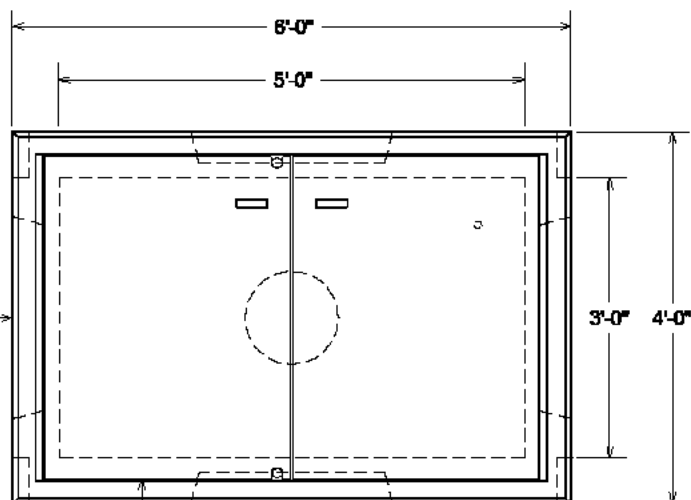
24"x24"x4" DEEP CONDUIT
KNOCKOUTS AT FLOOR LEVEL,
CENTERED IN WIDTH OF EACH
WALL, TYP. OF 4

NOTES:

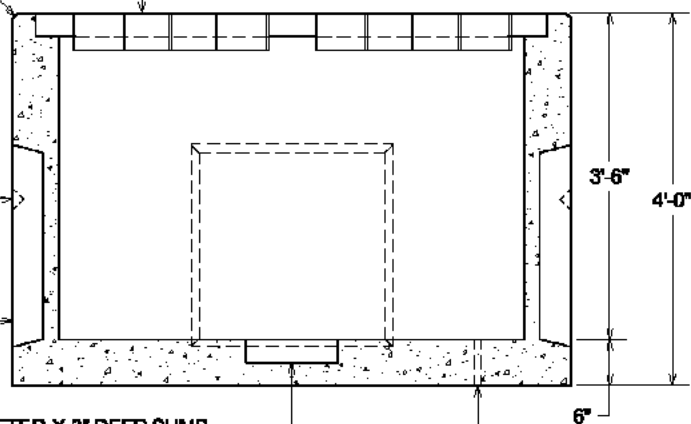
- CONCRETE: 4000 P.S.I. MINIMUM
- REINFORCING: GRADE 80 MINIMUM
- WALLS & FLOOR TO BE 6" THICK
- SUITABLE FOR OCCASIONAL AASHTO HS-20-44 LOADINGS
WHEN PLACED ON MATERIAL CAPABLE OF SUPPORTING
THE LOADINGS

UNIT WEIGHS APPROXIMATELY 8,000 LBS.

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY



PLAN VIEW



12" DIAMETER X 3" DEEP SUMP
RECESS IN CENTER OF FLOOR

1" PVC SLEEVE CAST IN FOR GROUND ROD, 6"
OFF EACH INSIDE WALL OF VAULT

DRAWING NOT TO SCALE

3X5X3-6 SPLICE BOXING
DATE CREATED: 11/04
UPDATED: 12/08

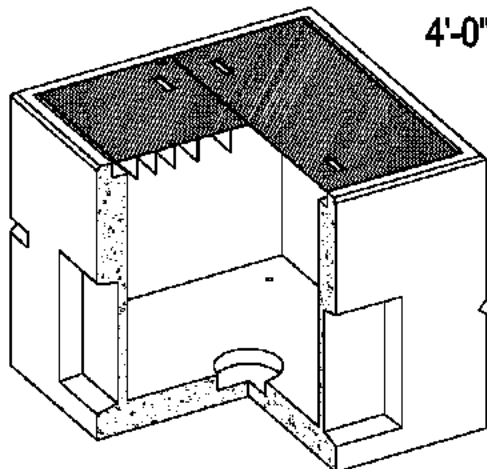
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PRECAST CONCRETE SPLICE BOX

4'-0" WIDE X 4'-0" LONG X 4'-0" HIGH INSIDE DIMENSIONS

VCP ITEM #SB404040



24"x24"x4" DEEP CONDUIT KNOCKOUTS
AT FLOOR LEVEL, CENTERED IN WIDTH
OF EACH WALL, TYP. OF 4

GALVANIZED STEEL FRAME WITH HINGED 1/4" STEEL
DIAMOND PLATE COVERS WITH DROP HANDLES
SUITABLE FOR OCCASIONAL H-20 LOADINGS
(NOT DESIGNED FOR HIGH DENSITY TRAFFIC)
SPRING ASSISTED COVER WITH STAND, COVERS
BOLT CLOSED WITH TWO 1/2" BOLTS

ENTIRE TOP PERIMETER
EDGE IS CHAMFERED

PROVIDED WITH LIFT NOTCHES
FOR HANDLING, TYP. OF 4

SECTION VIEW

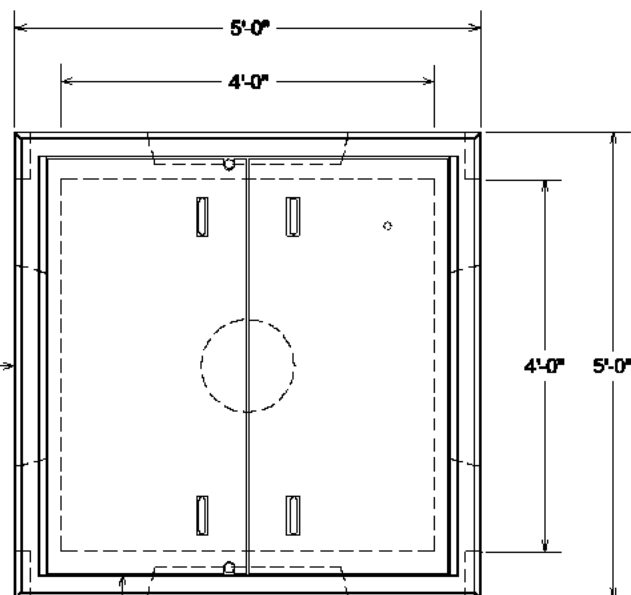
24"x24"x4" DEEP CONDUIT
KNOCKOUTS AT FLOOR LEVEL,
CENTERED IN WIDTH OF EACH WALL,
TYP. OF 4

NOTES:

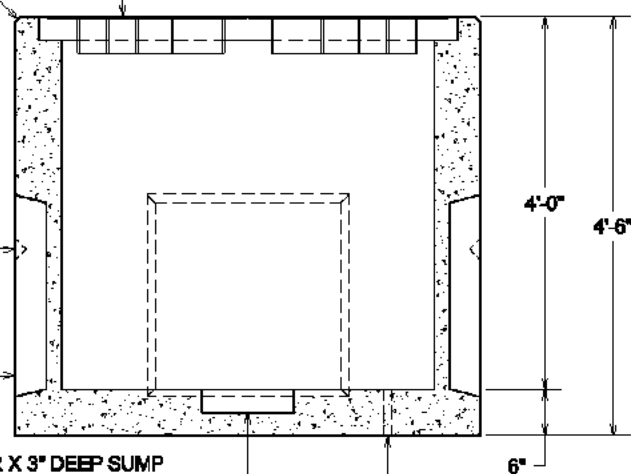
- CONCRETE: 4000 P.S.I. MINIMUM
- REINFORCING: GRADE 60 MINIMUM
- WALLS & FLOOR TO BE 6" THICK
- SUITABLE FOR OCCASIONAL AASHTO HS-20-44 LOADINGS
WHEN PLACED ON MATERIAL CAPABLE OF SUPPORTING
THE LOADINGS

UNIT WEIGHS APPROXIMATELY 6,700 LBS.

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY



PLAN VIEW



12" DIAMETER X 3" DEEP SUMP
RECESS IN CENTER OF FLOOR

1" PVC SLEEVE CAST IN FOR GROUND ROD, 6"
OFF EACH INSIDE WALL OF VAULT

DRAWING NOT TO SCALE

4'X4' SPLICE BOX/DWG
DATE CREATED: 11/04
UPDATED: 12/08

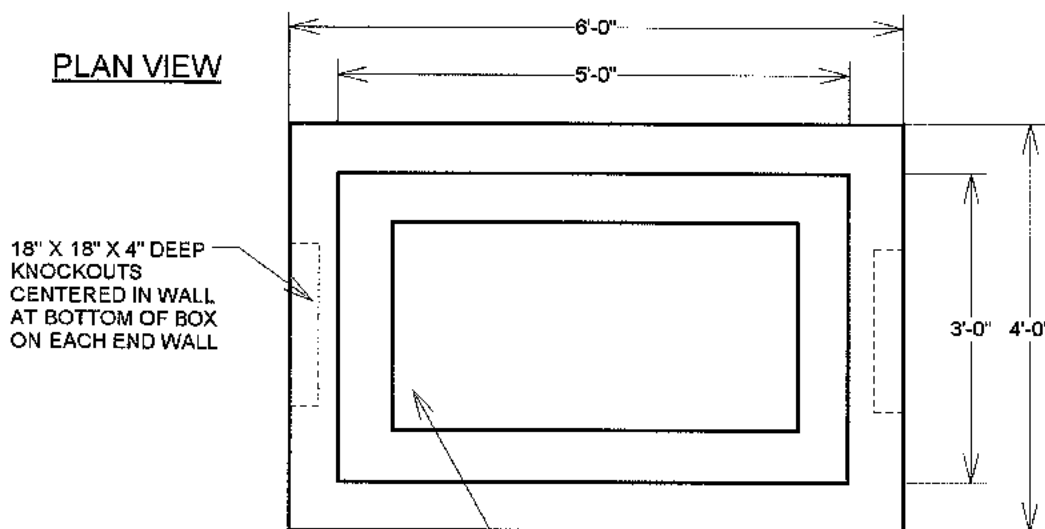
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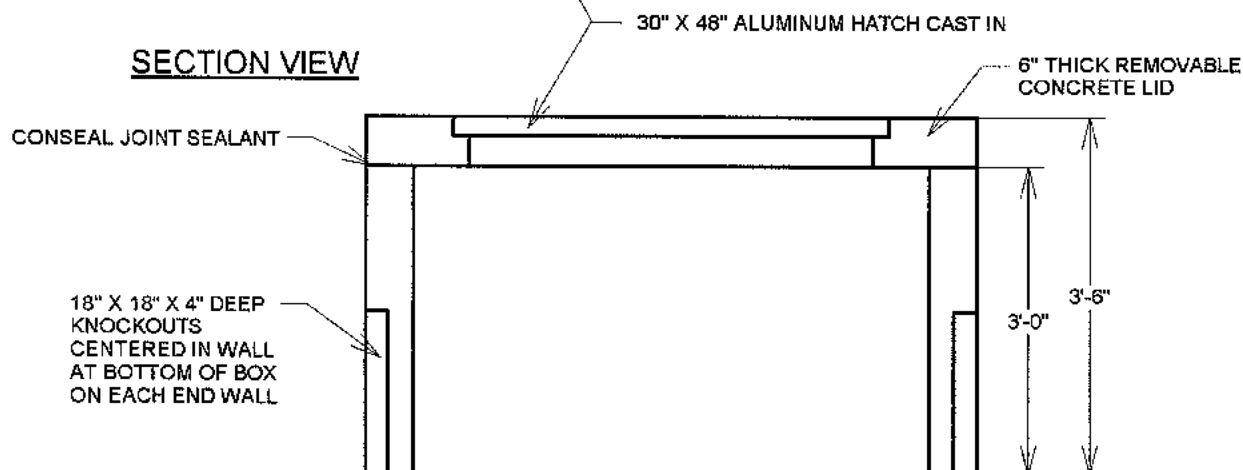
PRECAST CONCRETE VAULT FOR SPRINKLER BOX

3' WIDE X 5' LONG X 3' HIGH INSIDE DIMENSIONS
VCP ITEM #305030-NF

PLAN VIEW



SECTION VIEW



CONCRETE: 5000 P.S.I. (MINIMUM)
REINFORCING: GRADE 60 (MINIMUM)

LID W/ HATCH WEIGHTS APPROXIMATELY 1900 LBS.
BOX WEIGHS APPROXIMATELY 4000 LBS.

DRAWING IS NOT TO SCALE
ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

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concrete products, inc.

CAT3X5X3.SKF
UPDATED 12/00

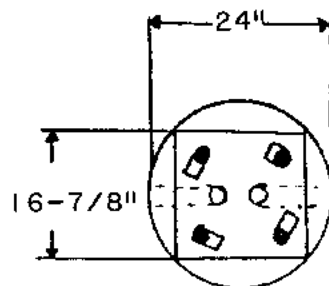
12650 Tucson Street - Henderson, Colorado 80640 - 303-659-3747, Fax 303-659-1333
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Precast Concrete

STREET LIGHT FOUNDATION

Meets most Public Utility Companies' specifications

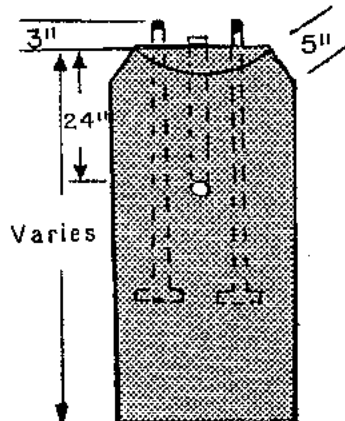
Top view



Reduced installation time

2" PVC conduit for easy connection and wiring

Side view

Flat top foundations
w/1" chamfer
also availableCommon bolt patterns
availableVarious depths available
**Available in 18", 24",
or 30" diameter**

Easy handling and placement

High quality casting: smooth, uniform finish

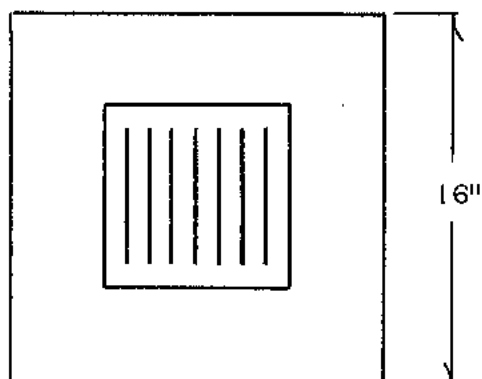
actual dimensions of concrete products may vary slightly


**vaughn
concrete products, inc.**

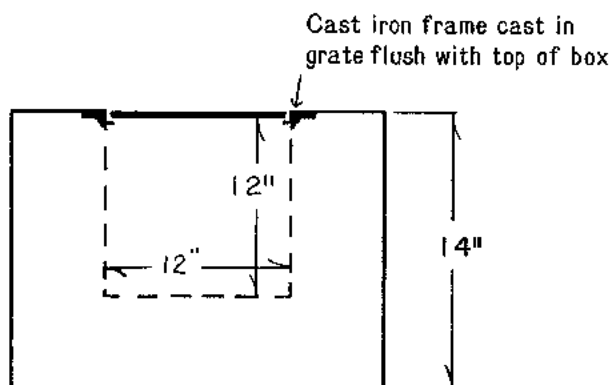
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Precast Concrete SUMP BOX

TOP VIEW



TYPICAL SECTION



Weight approximately 185 lbs.

Can be used in precast vaults
by placing blockout in vault floor

Also used for cast-in-place applications

Concrete 4000 P.S.I. Minimum
Reinforced with Wire Mesh

Actual dimensions of concrete products vary slightly

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UPDATED 11/97

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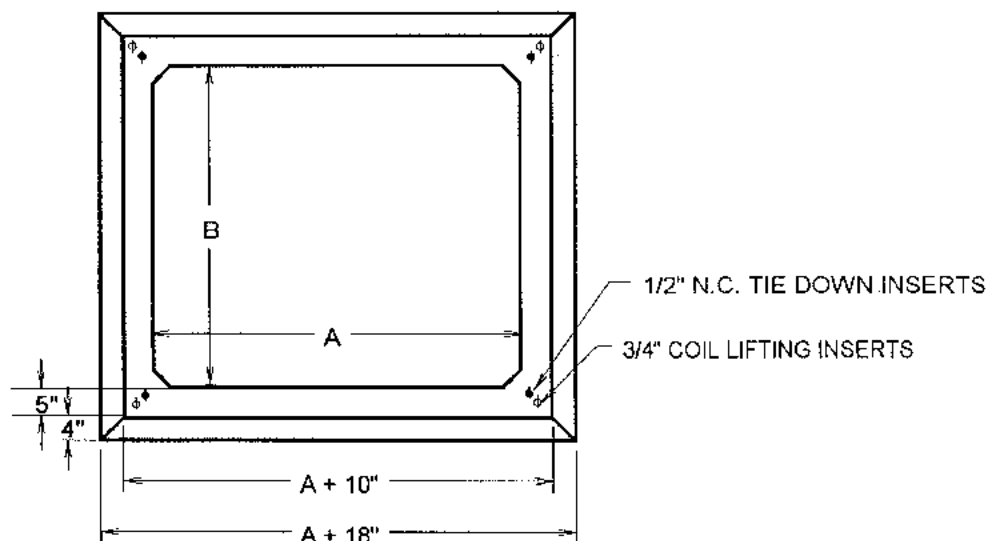
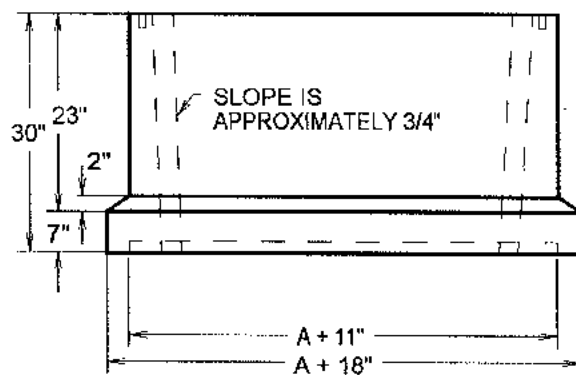
PRECAST CONCRETE

SWITCH CABINET FOUNDATION

TWO SIZES AVAILABLE

VCP - 2406

VCP - 2407

TOP VIEWSECTION VIEW

DIMENSIONS		
	2406	2407
A	53"	69"
B	61 1/2"	76 1/2"

WEIGHTS:

2406 - 4,000 LBS.

2407 - 4,600 LBS.

CONCRETE - 4,000 P.S.I. (MINIMUM)
 REINFORCING - GRADE 60 MINIMUM

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY
 DRAWING IS NOT TO SCALE

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concrete products, inc.

11/97

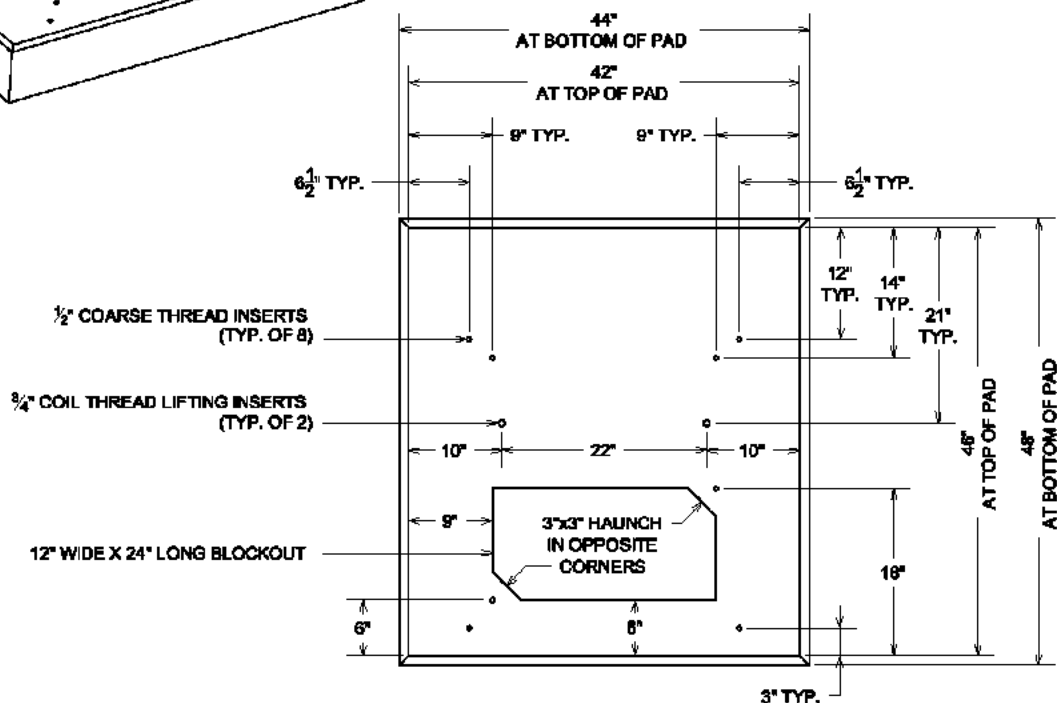
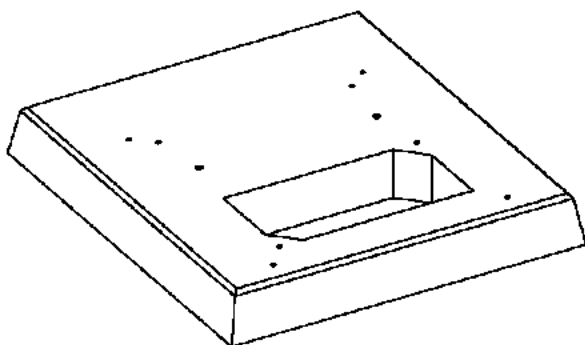
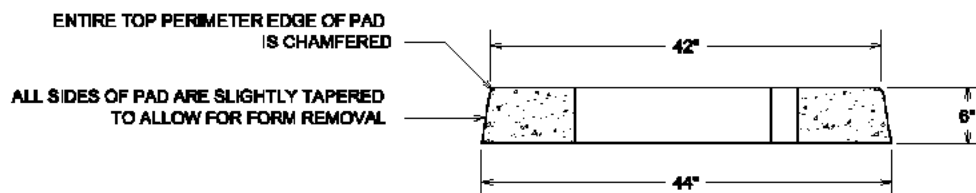
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PRECAST CONCRETE

TRANSFORMER PAD #VCP390

42" WIDE X 46" LONG X 6" THICK

VCP ITEM #VCP390

**PLAN VIEW****SECTION VIEW****WEIGHT:**

- PAD WEIGHS APPX. 900 LBS.

NOTES:

- CONCRETE: 4000 P.S.I. MINIMUM
- REINFORCING: GRADE 60 MINIMUM

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

LIFTING DETAILS:

PAD TO LIFT WITH:

- (2) 3/4" COIL BOLTS
- (2) SWIVEL PLATES OR LIFT ANGLES FOR 3/4" COIL BOLTS

DRAWING NOT TO SCALE

TRANSFORMER PAD, #VCP390.DWG
DATE CREATED: 12/08
UPDATED: -----

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concrete products, inc.

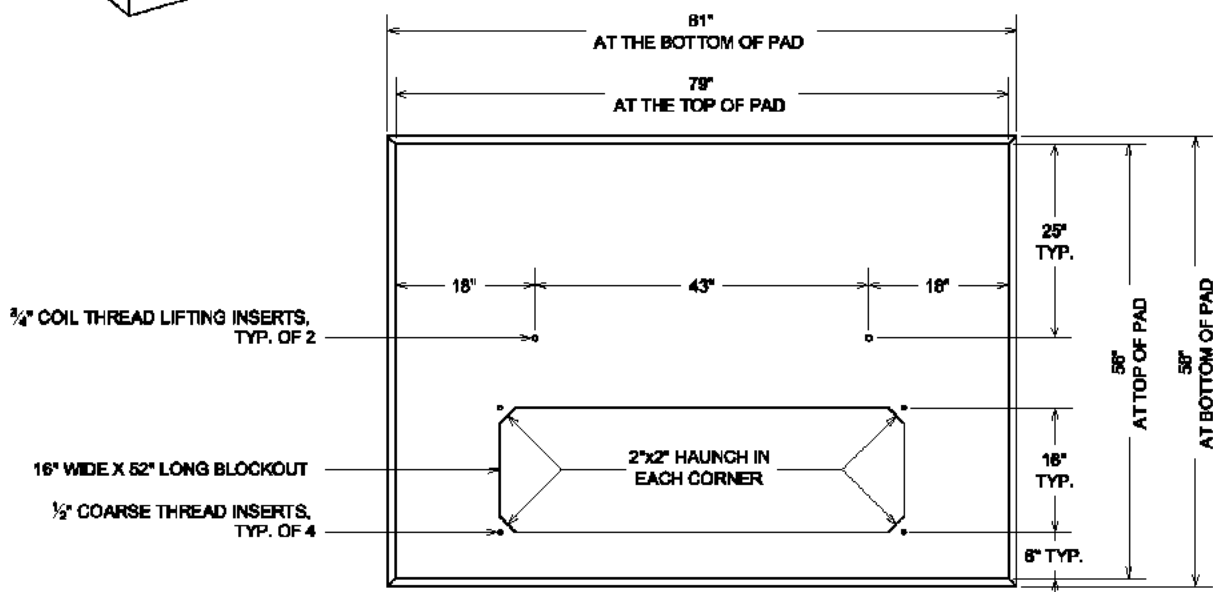
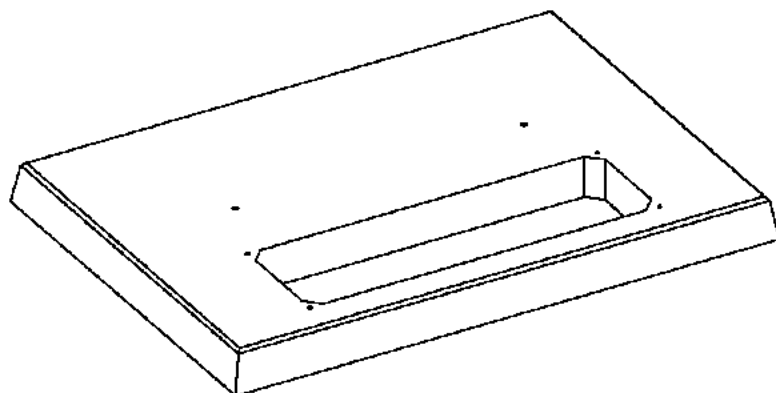
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PRECAST CONCRETE

TRANSFORMER PAD #VCP391

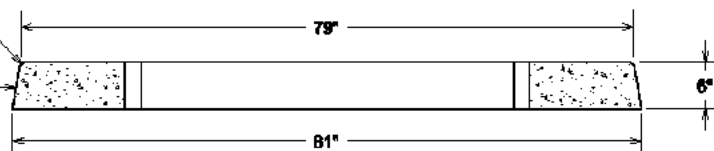
56" WIDE X 79" LONG X 6" THICK

VCP ITEM #VCP391

**PLAN VIEW**

ENTIRE TOP PERIMETER EDGE OF PAD IS CHAMFERED

ALL SIDES OF PAD ARE SLIGHTLY TAPERED TO ALLOW FOR FORM REMOVAL

**SECTION VIEW****WEIGHT:**

- PAD WEIGHS APPX. 1,900 LBS.

NOTES:

- CONCRETE: 4000 P.S.I. MINIMUM
- REINFORCING: GRADE 60 MINIMUM

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

LIFTING DETAILS:

PAD TO LIFT WITH:

- (2) 3/4" COIL BOLTS
- (2) SWIVEL PLATES OR LIFT ANGLES FOR 3/4" COIL BOLTS

DRAWING NOT TO SCALE

TRANSFORMER PAD, #VCP391.DWG
 DATE CREATED: 12/08
 UPDATED: -----

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concrete products, inc.

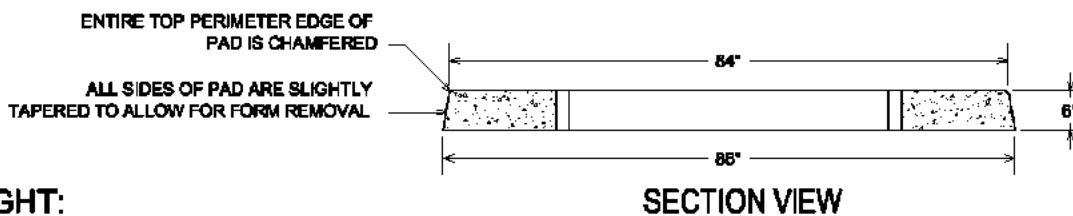
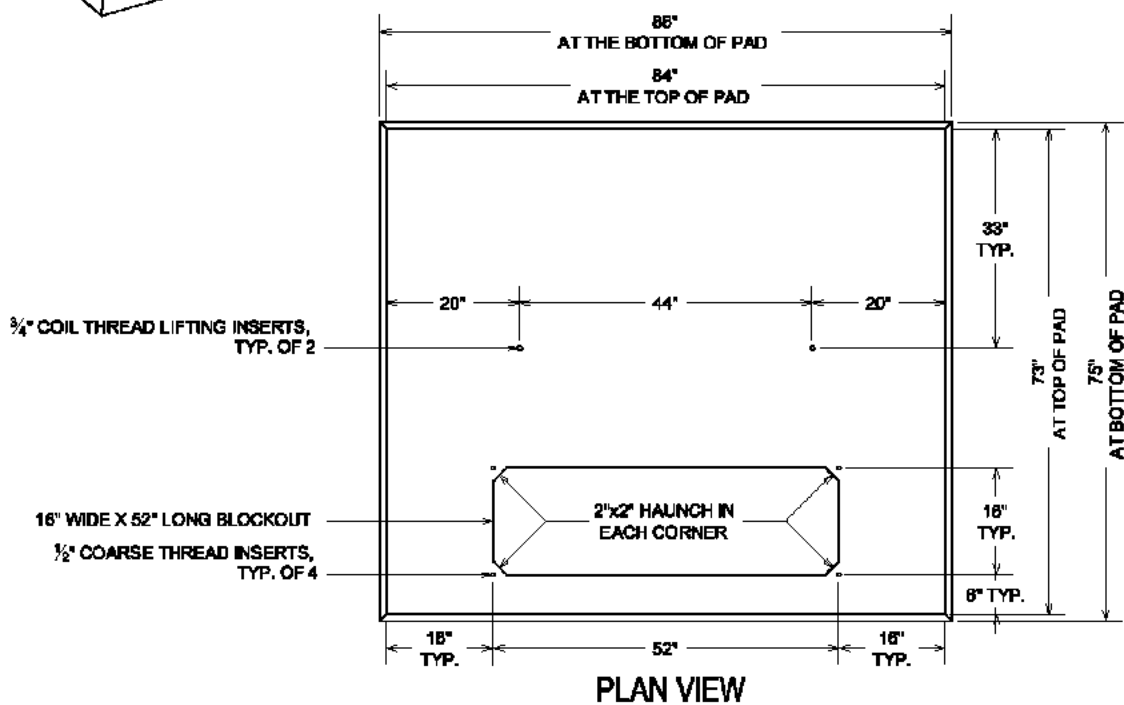
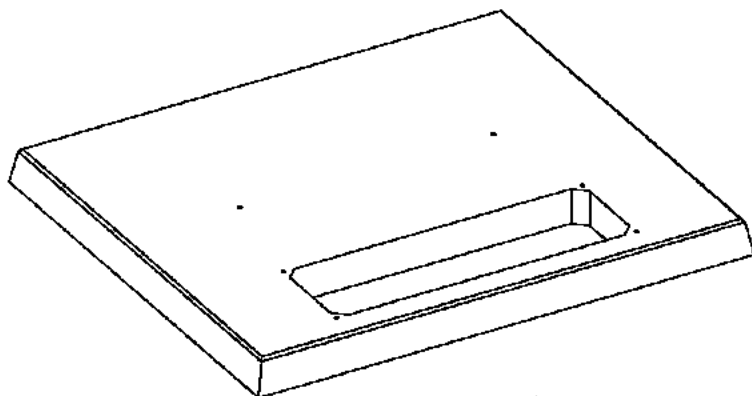
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PRECAST CONCRETE

TRANSFORMER PAD #VCP392

73" WIDE X 84" LONG X 6" THICK

VCP ITEM #VCP392

**WEIGHT:**

- PAD WEIGHS APPX. 2,800 LBS.

NOTES:

- CONCRETE: 4000 P.S.I. MINIMUM
- REINFORCING: GRADE 60 MINIMUM

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

LIFTING DETAILS:

PAD TO LIFT WITH:

- (2) 3/4" COIL BOLTS
- (2) SWIVEL PLATES OR LIFT ANGLES FOR 3/4" COIL BOLTS

DRAWING NOT TO SCALE

TRANSFORMER PAD, #VCP392.DWG
 DATE CREATED: 12/08
 UPDATED: -----

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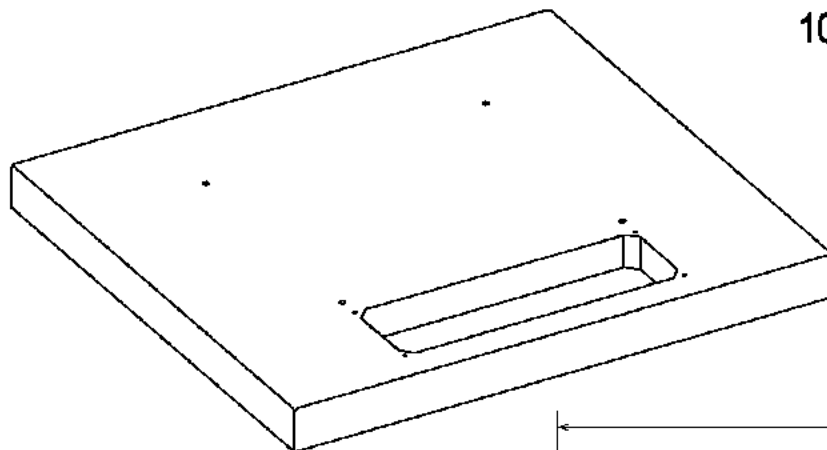
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PRECAST CONCRETE

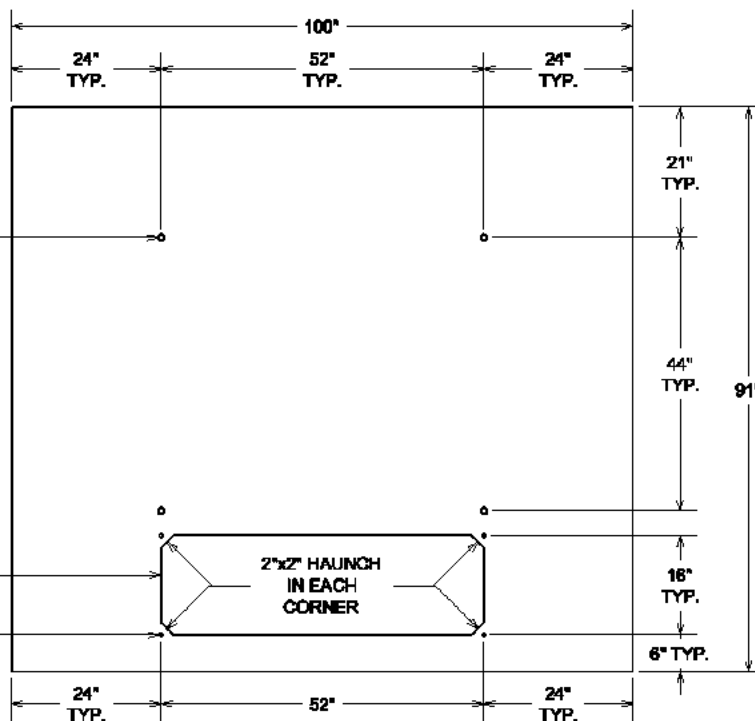
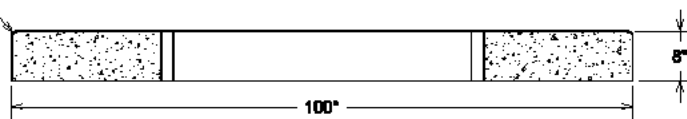
TRANSFORMER PAD #VCP393

100" WIDE X 91" LONG X 8" THICK

VCP ITEM #VCP393

1" COIL THREAD LIFTING INSERTS,
TYP. OF 4

16" WIDE X 52" LONG BLOCKOUT

 $\frac{1}{2}$ " COARSE THREAD INSERTS,
TYP. OF 4ENTIRE TOP PERIMETER EDGE
ROUNDED WITH CONCRETE EDGER**PLAN VIEW****SECTION VIEW****WEIGHT:**

- PAD WEIGHS APPX. 5,700 LBS.

NOTES:

- CONCRETE: 4000 P.S.I. MINIMUM
- REINFORCING: GRADE 60 MINIMUM

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

LIFTING DETAILS:

PAD TO LIFT WITH:

- (4) 1" COIL BOLTS
- (4) SWIVEL PLATES OR LIFT ANGLES FOR 1" COIL BOLTS

DRAWING NOT TO SCALE

 TRANSFORMER PAD, #VCP393.DWG
 DATE CREATED: 12/08
 UPDATED: -----

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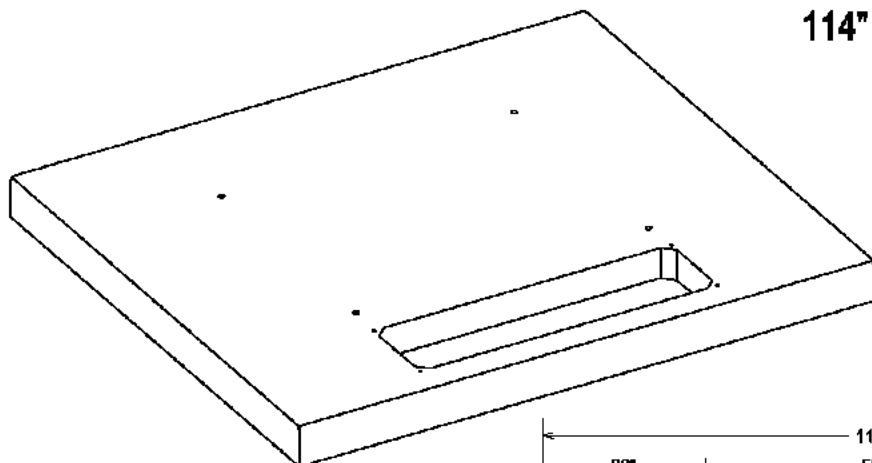
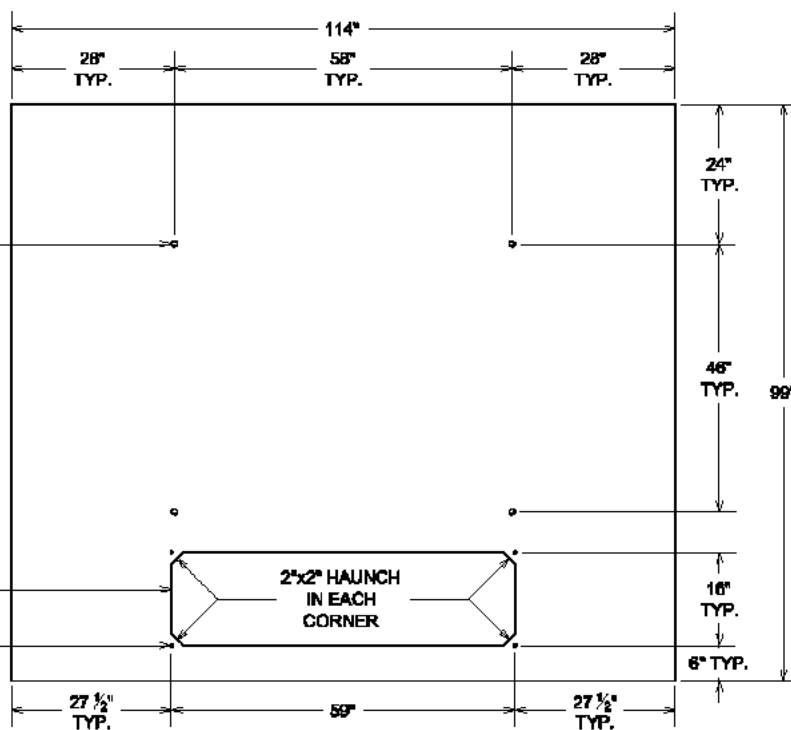
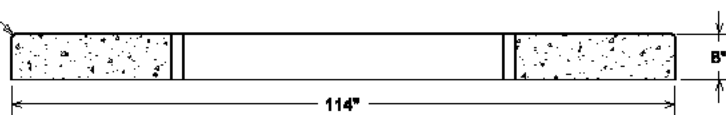
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PRECAST CONCRETE

TRANSFORMER PAD #VCP394

114" WIDE X 99" LONG X 8" THICK

VCP ITEM #VCP394

1" COIL THREAD LIFTING
INSERTS, TYP. OF 418" WIDE X 58" LONG BLOCKOUT
1/2" COARSE THREAD INSERTS,
TYP. OF 4ENTIRE TOP PERIMETER EDGE
ROUNDED WITH CONCRETE EDGER**PLAN VIEW****SECTION VIEW****WEIGHT:**

- PAD WEIGHS APPX. 7,200 LBS.

NOTES:

- CONCRETE: 4000 P.S.I. MINIMUM
- REINFORCING: GRADE 60 MINIMUM

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

LIFTING DETAILS:

PAD TO LIFT WITH:

- (4) 1" COIL BOLTS
- (4) SWIVEL PLATES OR LIFT ANGLES FOR 1" COIL BOLTS

DRAWING NOT TO SCALE

TRANSFORMER PAD, #VCP394.DWG
DATE CREATED: 12/08
UPDATED: -----

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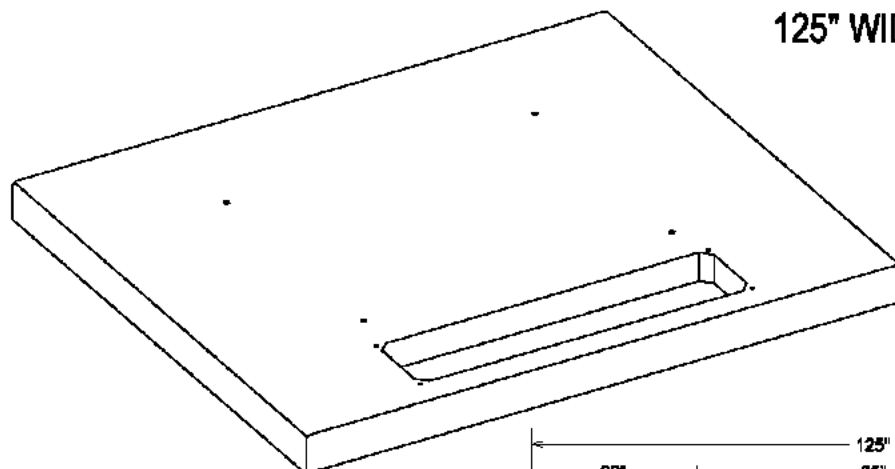
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PRECAST CONCRETE

TRANSFORMER PAD #VCP395

125" WIDE X 107" LONG X 8" THICK

VCP ITEM #VCP395

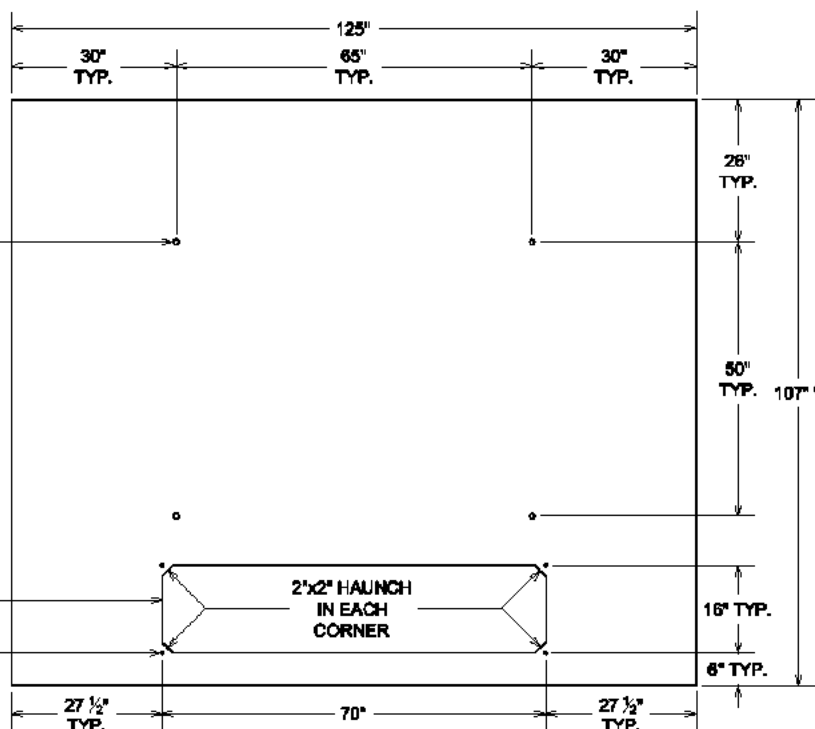
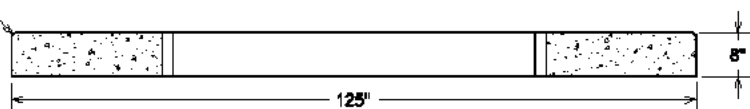


*NOTE THAT THIS PAD IS
OVERWIDTH FOR
SHIPPING/TRANSPORTING
PURPOSES; OVERSIZE
PERMIT NORMALLY
REQUIRED

1" COIL THREAD LIFTING INSERTS,
TYP. OF 4

18" WIDE X 70" LONG BLOCKOUT
1/2" COARSE THREAD INSERTS,
TYP. OF 4

ENTIRE TOP PERIMETER EDGE
ROUNDED WITH CONCRETE EDGER

**PLAN VIEW****SECTION VIEW****WEIGHT:**

- PAD WEIGHS APPX. 8,600 LBS.

NOTES:

- CONCRETE: 4000 P.S.I. MINIMUM
- REINFORCING: GRADE 60 MINIMUM

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

LIFTING DETAILS:

PAD TO LIFT WITH:

- (4) 1" COIL BOLTS
- (4) SWIVEL PLATES OR LIFT ANGLES FOR 1" COIL BOLTS

DRAWING NOT TO SCALE

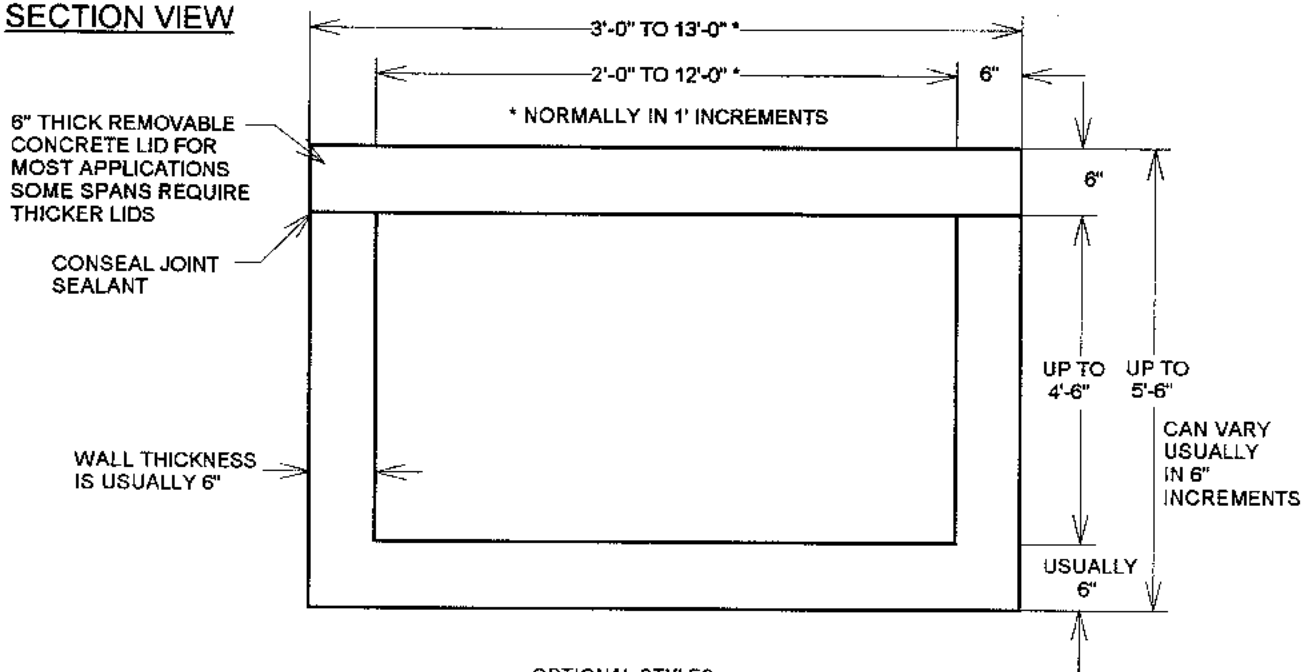
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DATE CREATED: 12/08
UPDATED: -----

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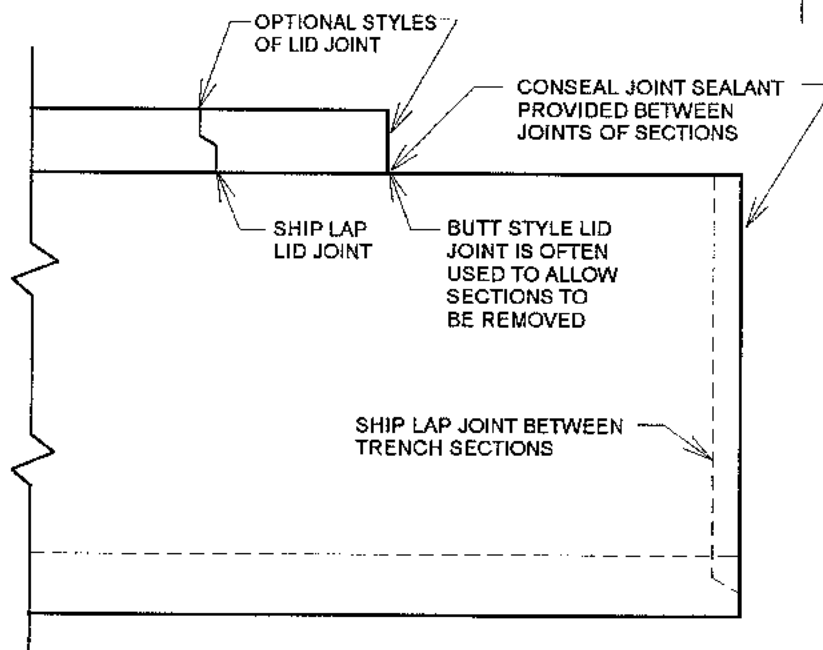
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TRENCH

SECTION VIEW



SIDE VIEW



NORMAL SECTION LAYING LENGTH IS 8 FEET

CONCRETE: 4000 P.S.I. MINIMUM
 REINFORCING: GRADE 60 MINIMUM
 CUSTOMER TO SPECIFY LOADING REQUIREMENTS
 REFERENCE SPECIFICATIONS: ASTM C-850, ASTM C-789
 AND AASHTO STANDARD SPECIFICATION FOR HIGHWAY BRIDGES

DRAWING IS NOT TO SCALE
 ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

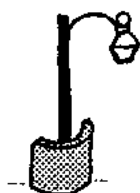
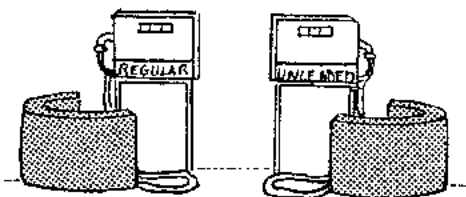
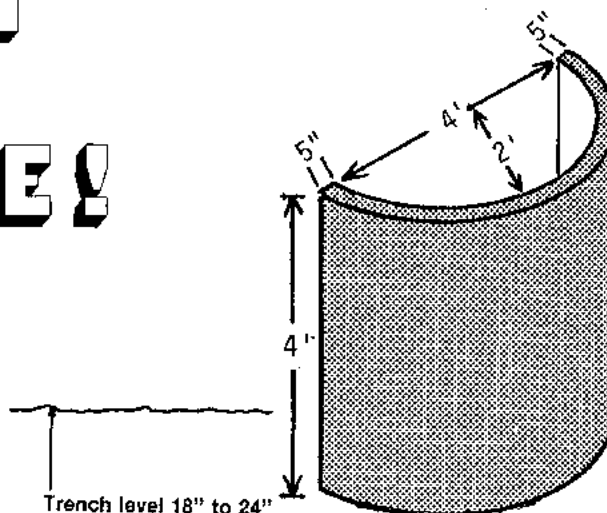
UPDATED 12/99

CATTRENCH.SKF

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Precast Concrete

UTILITY GUARDS**GUARD IT
WITH
CONCRETE!****USE TO PROTECT:****Electrical boxes****Transformers****Utility poles****Entryways****Gas pumps****Gas meters****IF IT NEEDS PROTECTED
THIS WILL DO THE JOB****FEATURES:****Easy installation only 18" to 24"
trench needed****Cast in holes for easy handling
and placement****Smooth uniform finished concrete
with 5" walls****Maintenance free won't rust or rot**

Concrete 4000 P.S.I. Minimum

Reinforced with Wire Mesh and
Grade 60 Rebar(minimum)**Weight: 1800 lbs.**

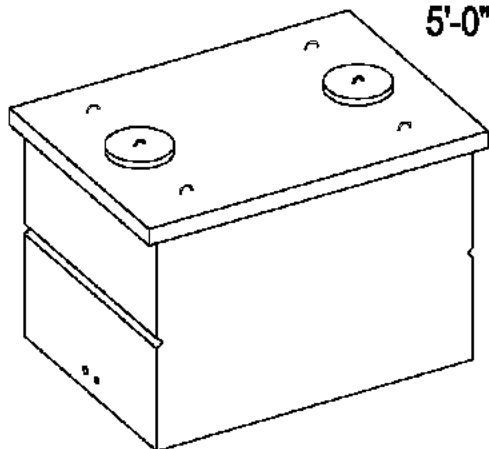
Actual dimensions of concrete products may vary slightly.

**Vaughn
concrete products, inc.**

UPDATED 11/97

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PRECAST CONCRETE

WATER CISTERN**1400 GALLON CAPACITY****5'-0" WIDE X 7'-2" LONG X 5'-1" HIGH INSIDE DIMENSIONS****NOT SUITABLE FOR TRAFFIC AREAS****MONOLITHIC BODY WITH 4" WALLS****TANK SUITABLE FOR UP TO 6' OF BURY**

2" RIGID GALVANIZED STEEL (RGS) THREADED COUPLINGS CAST IN, 1" OFF INSIDE FLOOR, 6" CENTER-TO-CENTER SEPARATION CENTERED IN WIDTH OF WALL, TYP. OF 2 (COUPLINGS ARE FEMALE ON INSIDE & OUTSIDE OF TANK)

LID TO LIFT WITH 4 REBAR LIFT LOOPS, THE TANK BODY TO BE SUPPLIED WITH LIFT NOTCHES

DIGGING SPECIFICATIONS:

- EXCAVATION: 7' WIDE X 10' LONG
- SEE OUR *INSTALLATION GUIDELINES* PRIOR TO INSTALLING THIS TANK

VCP DOES NOT RECOMMEND SEALING THE LID OR ACCESS LIDS ONTO THE TANK AS IT IS VERY DIFFICULT TO GET THEM OFF;

IF SEALANT IS USED, POTABLE WATER SEALANT MUST BE USED, POTABLE WATER SEALANT MUST BE ORDERED PRIOR TO DELIVERY; INSTALLER WILL NORMALLY MORTAR OR CAULK THE LIDS ONCE THE TANK IS SET IN PLACE

WEIGHTS:

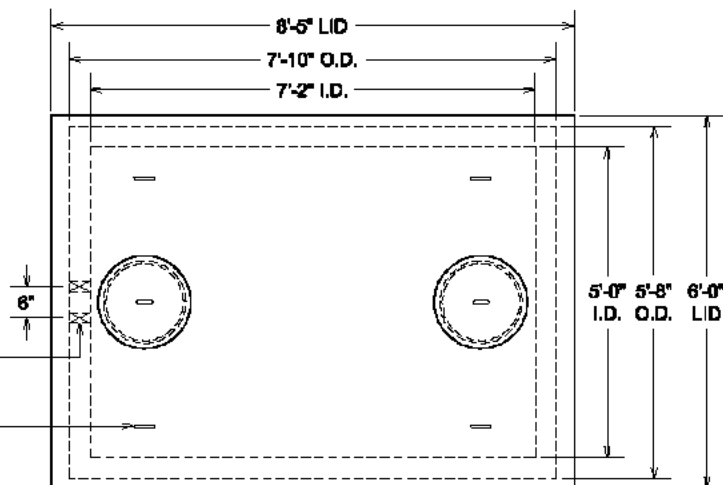
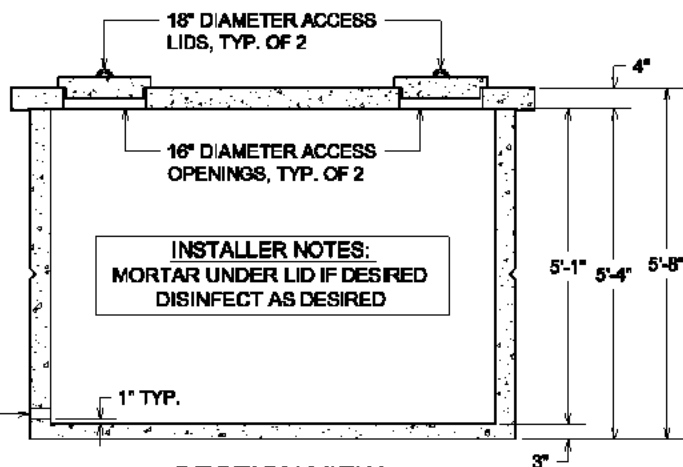
- TANK BODY WEIGHS APPX. 8,000 LBS.
- TANK LID WEIGHS APPX. 2,800 LBS.

2" RIGID GALVANIZED STEEL (RGS) THREADED COUPLINGS CAST IN, 1" OFF INSIDE FLOOR, 6" CENTER-TO-CENTER SEPARATION CENTERED IN WIDTH OF WALL, TYP. OF 2 (COUPLINGS ARE FEMALE ON INSIDE & OUTSIDE OF TANK)

NOTES:

- CONCRETE: 4000 P.S.I. MINIMUM
- REINFORCING: GRADE 60 MINIMUM
- NOT SUITABLE FOR TRAFFIC LOADINGS

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

**PLAN VIEW****SECTION VIEW**

INSTALLER NOTES:
MORTAR UNDER LID IF DESIRED
DISINFECT AS DESIRED

IT IS THE EXCAVATOR'S OR INSTALLER'S RESPONSIBILITY TO REQUEST OUR *INSTALLATION GUIDELINES* PRIOR TO INSTALLING THIS TANK

DRAWING NOT TO SCALE

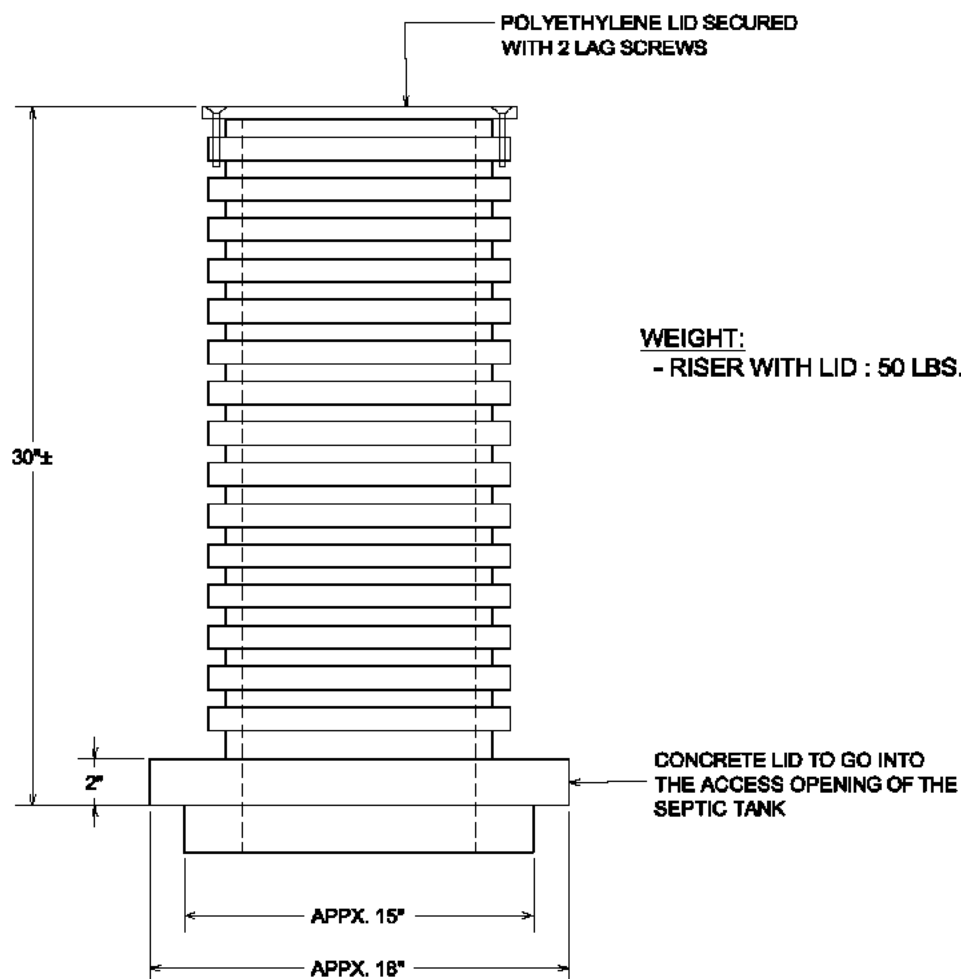
WATER CISTERNDWG
DATE CREATED: 12/07
UPDATED: 12/08

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10" I.D. HIGH-DENSITY POLYETHYLENE WATER CISTERN RISER

RIBBED HDPE (HIGH DENSITY POLYETHYLENE) PIPE
10" INSIDE DIAMETER WITH POLYETHYLENE LID



PROVIDES APPROXIMATELY 30" FROM THE
TOP OF THE TANK TO THE TOP OF THE RISER

CONTRACTOR CAN CUT THE RISER TO THE
NECESSARY HEIGHT

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

Vaughn
concrete products, inc.

DRAWING NOT TO SCALE

WATER CISTERN RISER.DWG
DATE CREATED: 12/07
UPDATED: 12/09

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www.vaughnconcreteproducts.com

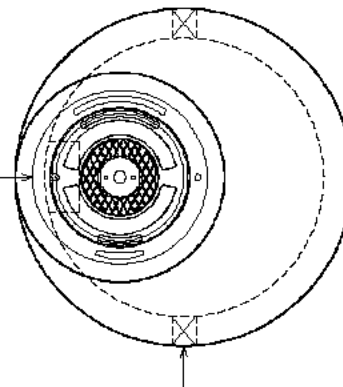
PRECAST CONCRETE WATER METER PIT

48" INSIDE DIAMETER

VCP ITEM #4040 ROUND METER PIT

MANUFACTURED TO ASTM C-478
FOR AASHTO HS-20-44 LOADINGS**

SEE RING & COVER OPTIONS FOR
AVAILABLE RINGS & COVERS



4" WIDE X 12" TALL NOTCHES, TYP. OF 2 STRAIGHT
THRU, ORIENTED 90° FROM THE STEPS

RING & COVER OPTIONS:

1. 24" DIAMETER ALUMINUM RING & WATER COVER WITH 1.75" HOLE & RECESS, 4 1/2" TALL (THIS OPTION TO BE USED FOR CHEYENNE BOARD OF PUBLIC UTILITIES METER PITS)
2. 24" DIAMETER CAST IRON RING & WATER COVER WITH 1.75" HOLE & RECESS, 4" TALL
3. 24" DIAMETER ALUMINUM FROST PROOF RING & COVER
4. 30" DIAMETER ALUMINUM FROST PROOF RING & COVER WITH 28" DIAMETER CLEAR OPENING

PLAN VIEW

SEE RING & COVER OPTIONS FOR
AVAILABLE RINGS & COVERS

METER PIT IS TRADITIONALLY SUPPLIED WITH A 6"
TALL MANHOLE RISER;
OPTIONAL 24" I.D. MANHOLE RISERS AS REQUIRED
FOR ADJUSTMENT;
AVAILABLE IN 2", 3", 4" OR 6" HEIGHTS

CONSEAL JOINT SEALANT

OUR STANDARD RUBBER ENCASED
STEEL STEPS @ 12" O.C.

WEIGHTS:

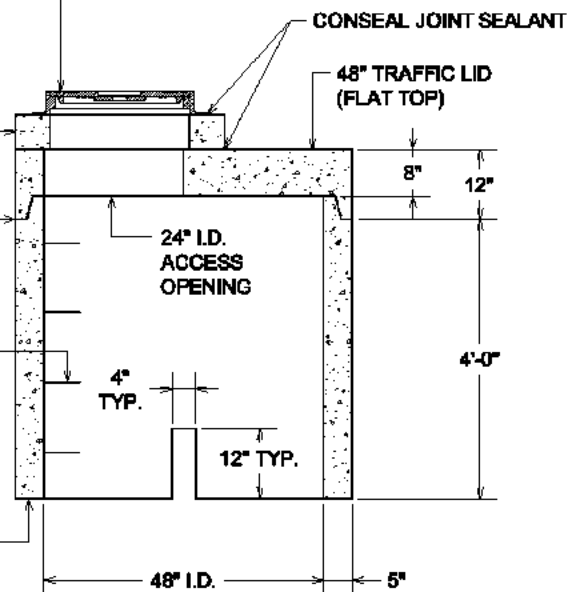
- LID : ~2,800 LBS.
- BARREL : ~3,600 LBS.
- COMPLETE METER PIT : ~7,000 LBS.

NOTES:

- CONCRETE: 4,000 P.S.I. (MINIMUM)
- REINFORCING: REBAR & WELDED WIRE FABRIC

** SUITABLE FOR AASHTO HS-20-44 LOADINGS WHEN PLACED
ON MATERIAL CAPABLE OF SUPPORTING THE LOADINGS

BOTTOM PROVIDED
OPEN & FLAT ON
BOTTOM



SECTION VIEW

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

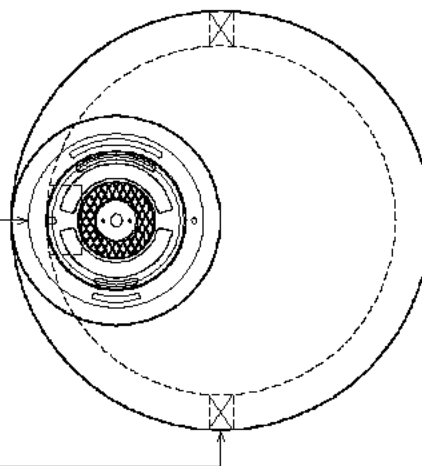
DRAWING IS NOT TO SCALE

vaughn
concrete products, inc.

WATER METER PIT, 48 INCH DIA.
DATE CREATED: 12/08
UPDATED: -----

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2671 South Greeley Hwy • Cheyenne, Wyoming 82007 • 307-634-0695, Fax 307-634-0694
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PRECAST CONCRETE

WATER METER PIT**60" INSIDE DIAMETER****VCP ITEM #5040 ROUND METER PIT****MANUFACTURED TO ASTM C-478****FOR AASHTO HS-20-44 LOADINGS****SEE RING & COVER OPTIONS FOR
AVAILABLE RINGS & COVERS4" WIDE X 12" TALL NOTCHES, TYP. OF 2 STRAIGHT
THRU, ORIENTED 90° FROM THE STEPS**PLAN VIEW****RING & COVER OPTIONS:**

1. 24" DIAMETER ALUMINUM RING & WATER COVER WITH 1.75" HOLE & RECESS, 4 1/2" TALL (THIS OPTION TO BE USED FOR CHEYENNE BOARD OF PUBLIC UTILITIES METER PITS)
2. 24" DIAMETER CAST IRON RING & WATER COVER WITH 1.75" HOLE & RECESS, 4" TALL
3. 24" DIAMETER ALUMINUM FROST PROOF RING & COVER
4. 30" DIAMETER ALUMINUM FROST PROOF RING & COVER WITH 26" DIAMETER CLEAR OPENING

SEE RING & COVER OPTIONS FOR
AVAILABLE RINGS & COVERSMETER PIT IS TRADITIONALLY SUPPLIED WITH A 6"
TALL MANHOLE RISER;
OPTIONAL 24" I.D. MANHOLE RISERS AS REQUIRED
FOR ADJUSTMENT;
AVAILABLE IN 2", 3", 4" OR 6" HEIGHTS

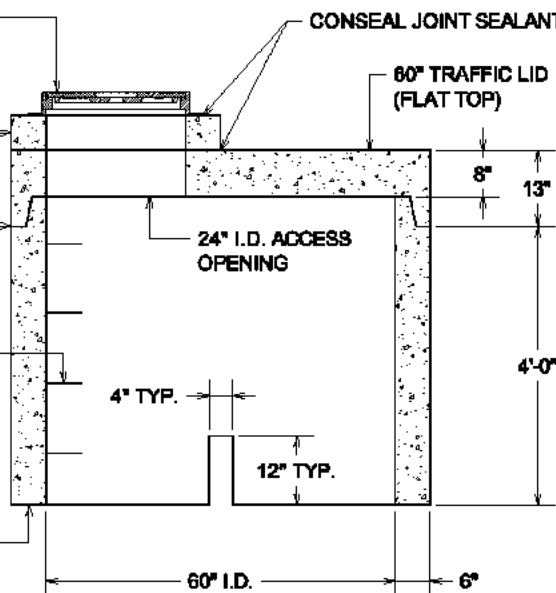
CONSEAL JOINT SEALANT

OUR STANDARD RUBBER ENCASED
STEEL STEPS @ 12" O.C.CONSEAL JOINT SEALANT
60" TRAFFIC LID
(FLAT TOP)**WEIGHTS:**

- LID : ~3,000 LBS.
- BARREL : ~5,200 LBS.
- COMPLETE METER PIT : ~8,800 LBS.

NOTES:

- CONCRETE: 4,000 P.S.I. (MINIMUM)
- REINFORCING: REBAR & WELDED WIRE FABRIC

** SUITABLE FOR AASHTO HS-20-44 LOADINGS WHEN PLACED
ON MATERIAL CAPABLE OF SUPPORTING THE LOADINGSBOTTOM PROVIDED
OPEN & FLAT ON
BOTTOM**SECTION VIEW**

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

DRAWING IS NOT TO SCALE

**Vaughn
concrete products, inc.**
WATER METER PIT, 60 INCH DIA
DATE CREATED: 12/08
UPDATED: _____

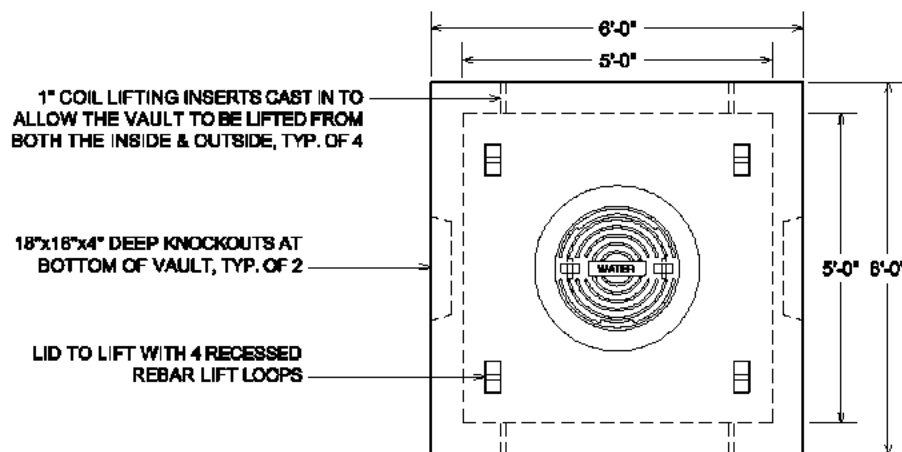
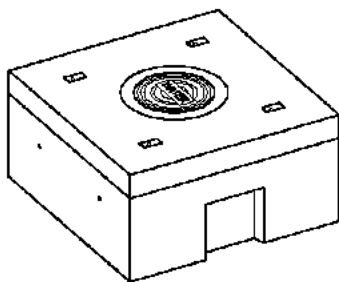
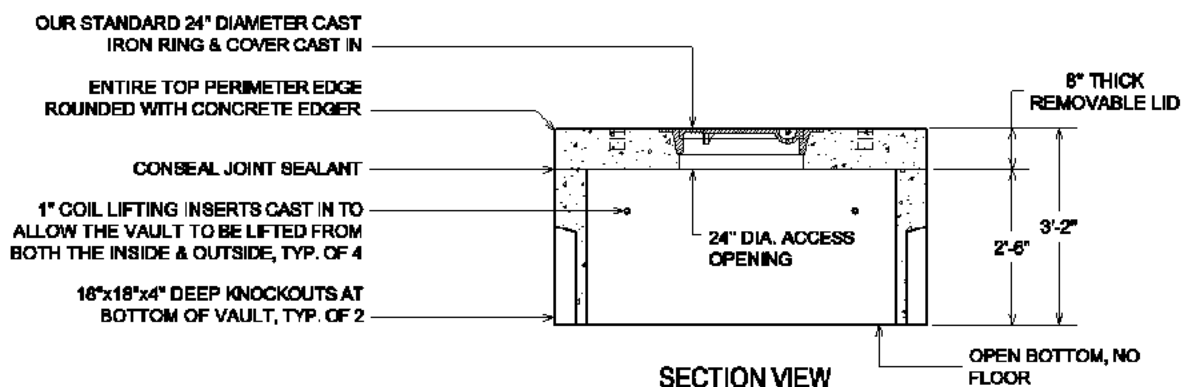
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PRECAST CONCRETE

WATER METER VAULT

CITY OF LUBBOCK STANDARD WATER METER VAULT
 5'-0" WIDE X 5'-0" LONG X 2'-6" HIGH INSIDE DIMENSIONS
 WITH 1-PIECE BODY WITH KNOCKOUTS, WITH REMOVABLE LID

VCP ITEM #505025NF 1-PC.

**PLAN VIEW****SECTION VIEW****NOTES:**

- CONCRETE: 4000 P.S.I. MINIMUM
- REINFORCING: GRADE 60 MINIMUM
- SUITABLE FOR AASHTO HS-20-44 LOADINGS

WEIGHTS:

- VAULT RISER SECTION WEIGHS APPX. 4,000 LBS.
- LID WEIGHS APPX. 3,600 LBS.

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

DRAWING NOT TO SCALE

LUBBOCK METER VAULT-505025NF 1-PC.DWG
 DATE CREATED: 12/07
 UPDATED: -----

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concrete products, inc.

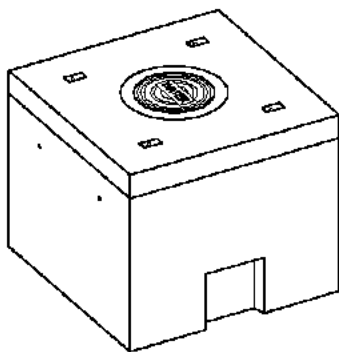
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PRECAST CONCRETE

WATER METER VAULT

CITY OF LUBBOCK STANDARD WATER METER VAULT
 5'-0" WIDE X 5'-0" LONG X 4'-0" HIGH INSIDE DIMENSIONS
 WITH 1-PIECE BODY WITH KNOCKOUTS, WITH REMOVABLE LID

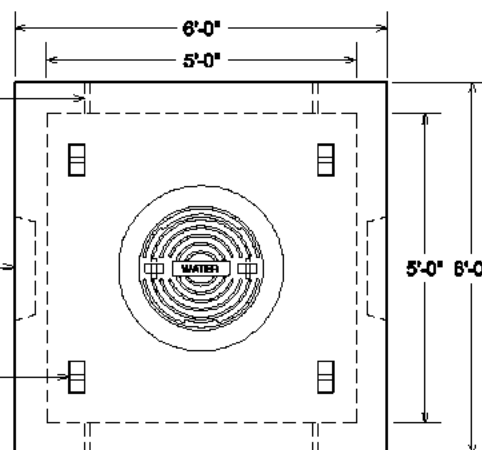
VCP ITEM #505040NF 1-PC.



1" COIL LIFTING INSERTS CAST IN TO
 ALLOW THE VAULT TO BE LIFTED FROM
 BOTH THE INSIDE & OUTSIDE, TYP. OF 4

18"x18"x4" DEEP KNOCKOUTS AT
 BOTTOM OF VAULT, TYP. OF 2

LID TO LIFT WITH 4 RECESSED
 REBAR LIFT LOOPS

**PLAN VIEW**

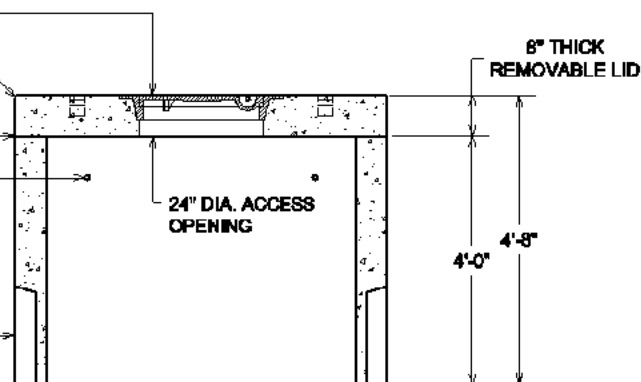
OUR STANDARD 24" DIAMETER CAST
 IRON RING & COVER CAST IN

ENTIRE TOP PERIMETER EDGE
 ROUNDED WITH CONCRETE EDGER

CONSEAL JOINT SEALANT

1" COIL LIFTING INSERTS CAST IN TO
 ALLOW THE VAULT TO BE LIFTED FROM
 BOTH THE INSIDE & OUTSIDE, TYP. OF 4

18"x18"x4" DEEP KNOCKOUTS AT
 BOTTOM OF VAULT, TYP. OF 2

**SECTION VIEW****NOTES:**

- CONCRETE: 4000 P.S.I. MINIMUM
- REINFORCING: GRADE 60 MINIMUM
- SUITABLE FOR AASHTO HS-20-44 LOADINGS

WEIGHTS:

- VAULT RISER SECTION WEIGHS APPX. 6,500 LBS.
- LID WEIGHS APPX. 3,600 LBS.

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

DRAWING NOT TO SCALE

LUBBOCK METER VAULT-505040NF 1-PC.DWG
 DATE CREATED: 11/29/07
 UPDATED: -----

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concrete products, inc.

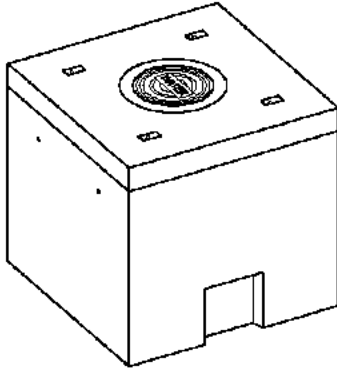
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 2671 South Greeley Hwy • Cheyenne, Wyoming 82007 • 307-634-0695, Fax 307-634-0694
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PRECAST CONCRETE

WATER METER VAULT

CITY OF LUBBOCK STANDARD WATER METER VAULT
5'-0" WIDE X 5'-0" LONG X 5'-0" HIGH INSIDE DIMENSIONS
WITH 1-PIECE BODY WITH KNOCKOUTS, WITH REMOVABLE LID

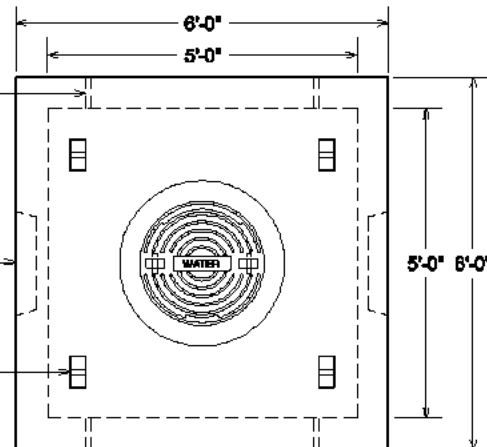
VCP ITEM #505050NF 1-PC.



1" COIL LIFTING INSERTS CAST IN TO
ALLOW THE VAULT TO BE LIFTED FROM
BOTH THE INSIDE & OUTSIDE, TYP. OF 4

18"x18"x4" DEEP KNOCKOUTS AT
BOTTOM OF VAULT, TYP. OF 2

LID TO LIFT WITH 4 RECESSED
REBAR LIFT LOOPS



PLAN VIEW

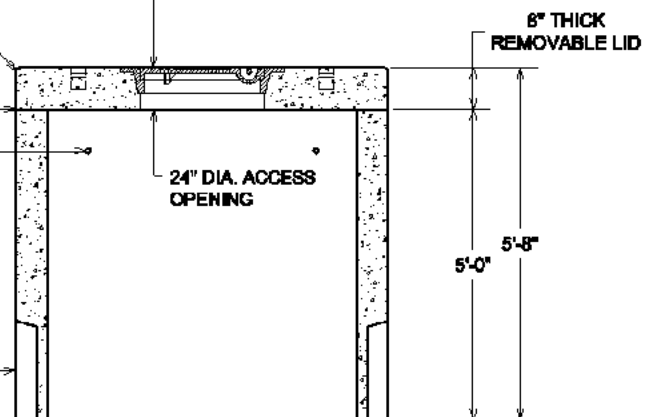
OUR STANDARD 24" DIAMETER CAST
IRON RING & COVER CAST IN

ENTIRE TOP PERIMETER EDGE
ROUNDED WITH CONCRETE EDGER

CONSEAL JOINT SEALANT

1" COIL LIFTING INSERTS CAST IN TO
ALLOW THE VAULT TO BE LIFTED FROM
BOTH THE INSIDE & OUTSIDE, TYP. OF 4

18"x18"x4" DEEP KNOCKOUTS AT
BOTTOM OF VAULT, TYP. OF 2



SECTION VIEW

NOTES:

- CONCRETE: 4000 P.S.I. MINIMUM
- REINFORCING: GRADE 60 MINIMUM
- SUITABLE FOR AASHTO HS-20-44 LOADINGS

WEIGHTS:

- VAULT RISER SECTION WEIGHS APPX. 8,100 LBS.
- LID WEIGHS APPX. 3,600 LBS.

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

DRAWING NOT TO SCALE

LUBBOCK METER VAULT-505050NF 1-PC.DWG
DATE CREATED: 11/29/07
UPDATED: -----

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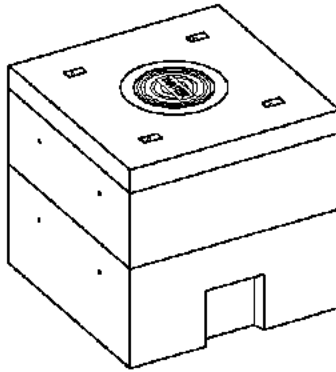
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PRECAST CONCRETE

WATER METER VAULT

CITY OF LUBBOCK STANDARD WATER METER VAULT
 5'-0" WIDE X 5'-0" LONG X 5'-0" HIGH INSIDE DIMENSIONS
 WITH 2-PIECE BODY WITH KNOCKOUTS, WITH REMOVABLE LID

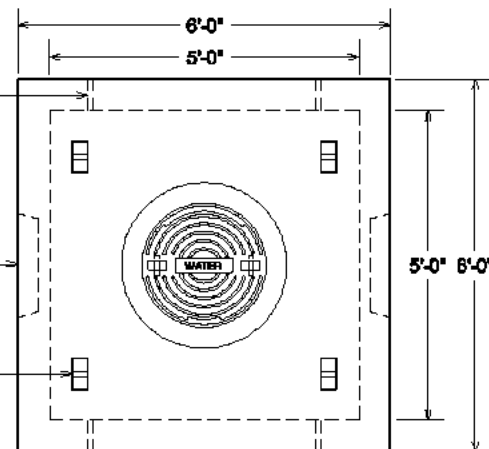
VCP ITEM #505050NF 2-PC.



1" COIL LIFTING INSERTS CAST IN TO
 ALLOW THE VAULT TO BE LIFTED FROM
 BOTH THE INSIDE & OUTSIDE, TYP. OF 8
 (4 IN EACH RISER SECTION)

18"x18"x4" DEEP KNOCKOUTS AT
 BOTTOM OF VAULT, TYP. OF 2

LID TO LIFT WITH 4 RECESSED
 REBAR LIFT LOOPS

**PLAN VIEW**

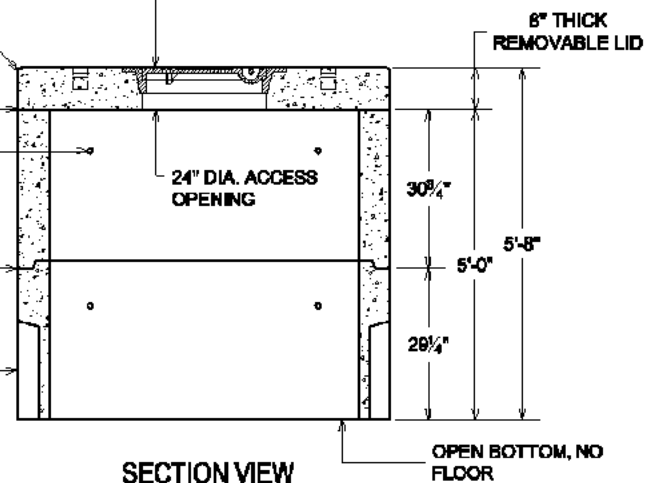
OUR STANDARD 24" DIAMETER CAST
 IRON RING & COVER CAST IN

ENTIRE TOP PERIMETER EDGE
 ROUNDED WITH CONCRETE EDGER

CONSEAL JOINT SEALANT
 1" COIL LIFTING INSERTS CAST IN TO
 ALLOW THE VAULT TO BE LIFTED FROM
 BOTH THE INSIDE & OUTSIDE, TYP. OF 8
 (4 IN EACH RISER SECTION)

CONSEAL JOINT SEALANT

18"x18"x4" DEEP KNOCKOUTS AT
 BOTTOM OF VAULT, TYP. OF 2

**SECTION VIEW****NOTES:**

- CONCRETE: 4000 P.S.I. MINIMUM
- REINFORCING: GRADE 60 MINIMUM
- SUITABLE FOR AASHTO HS-20-44 LOADINGS

WEIGHTS:

- VAULT RISER SECTIONS EACH WEIGH APPX. 4,150 LBS.
- LID WEIGHS APPX. 3,600 LBS.

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

DRAWING NOT TO SCALE

LUBBOCK METER VAULT-505050NF 2-PC.DWG
 DATE CREATED: 11/29/07
 UPDATED: -----

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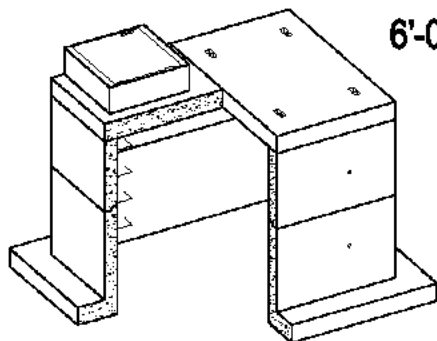
PRECAST CONCRETE

WATER METER VAULT

6'-0" WIDE X 8'-0" LONG X 6'-8" HIGH INSIDE DIMENSIONS

VCP ITEM #608066 WMV WITH FOOTING

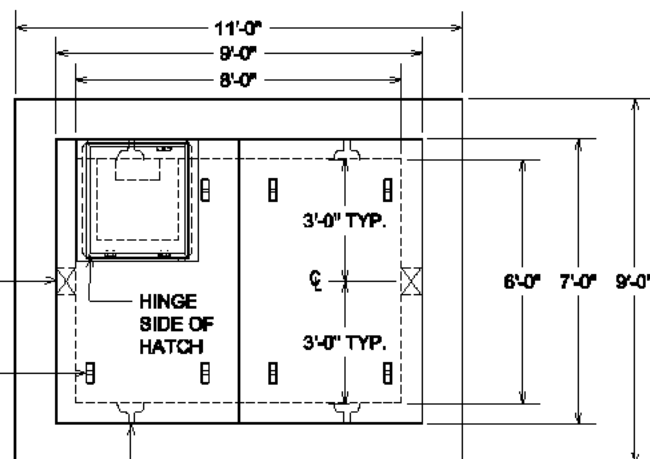
WITH TRAFFIC RATED HATCH



8" DIAMETER PIPING BLOCKOUTS 10" OFF THE TOP OF THE FOOTING TO THE BOTTOM OF THE BLOCKOUTS,
OPTIONAL: PRESS-IN GASKET FOR 2", 3" OR 4" PIPE CAN BE INSTALLED

LID SECTIONS LIFT WITH SINK-ITS

VAULT SECTIONS LIFT WITH (4) 1½" COIL BOLTS

**PLAN VIEW**

24"W X 24"L I.D. X 12" TALL PRECAST CONCRETE COLLAR WITH AHS 24"X24" ALUMINUM TRAFFIC RATED HATCH CAST IN

CONSEAL JOINT SEALANT

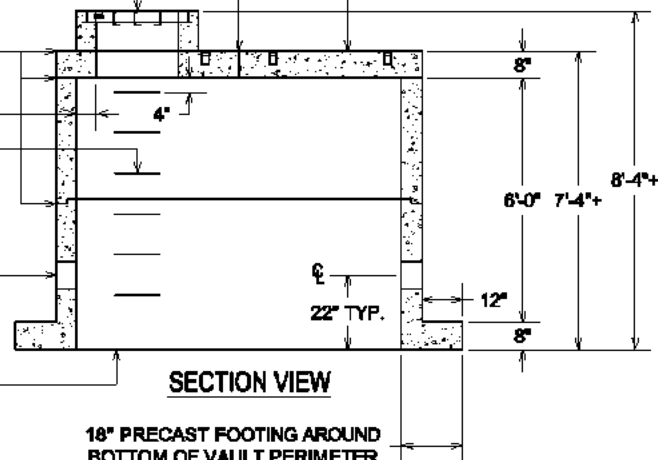
OUR STANDARD RUBBER ENCASED STEEL STEPS @ 12" O.C.

8" DIAMETER PIPING BLOCKOUTS 10" OFF THE TOP OF THE FOOTING TO THE BOTTOM OF THE BLOCKOUTS,
OPTIONAL: PRESS-IN GASKET FOR 2", 3" OR 4" PIPE CAN BE INSTALLED

BOTTOM OF VAULT PROVIDED OPEN, WITHOUT FLOOR

TOP OF JOINT PROVIDED WITH 6" WIDE X 10' LONG PIECE OF CS-212 CONWRAP FOR CONTRACTOR TO INSTALL AFTER LID SECTIONS ARE SET IN PLACE

TWO-SECTION LID PROVIDED WITH SINK-ITS FOR LIFTING

**SECTION VIEW**

18" PRECAST FOOTING AROUND BOTTOM OF VAULT PERIMETER

NOTES:

- CONCRETE: 5000 P.S.I. MINIMUM
- REINFORCING: GRADE 60 MINIMUM
- SUITABLE FOR AASHTO HS-20-44 LOADINGS

WEIGHTS:

- HEAVIEST PIECE WEIGHS APPX. 12,000 LBS.

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

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DRAWING NOT TO SCALE

WATER METER VAULT, 6X8 HATCHING
DATE CREATED: 12/07
UPDATED: -----

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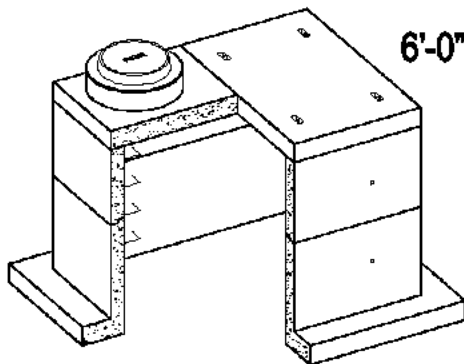
PRECAST CONCRETE

WATER METER VAULT

6'-0" WIDE X 8'-0" LONG X 6'-8" HIGH INSIDE DIMENSIONS

VCP ITEM #608066 WMV WITH FOOTING

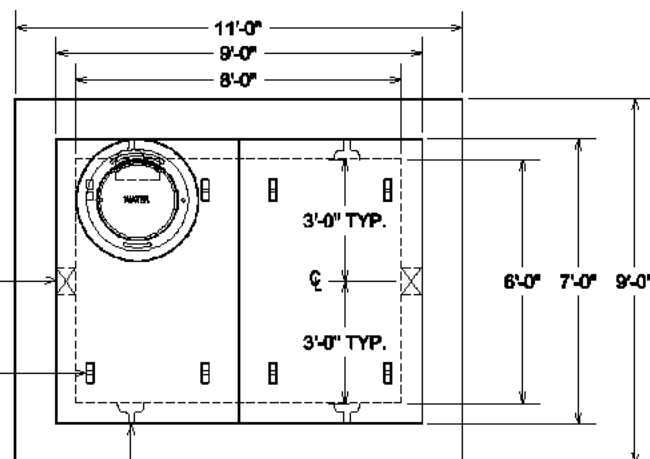
WITH RING & COVER



8" DIAMETER PIPING BLOCKOUTS 10" OFF THE TOP OF THE FOOTING TO THE BOTTOM OF THE BLOCKOUTS,
OPTIONAL: PRESS-IN GASKET FOR 2", 3" OR 4" PIPE CAN BE INSTALLED

LID SECTIONS LIFT WITH SINK-ITS

VAULT SECTIONS LIFT WITH (4) 1½" COIL BOLTS

**PLAN VIEW**

OUR STANDARD 24" DIAMETER CAST IRON RING & WATER METER COVER WITH HOLE & RECESS,
OR OUR STANDARD 24" DIAMETER ALUMINUM RING & COVER

24" I.D. X 8" TALL MANHOLE RISER

CONSEAL JOINT SEALANT

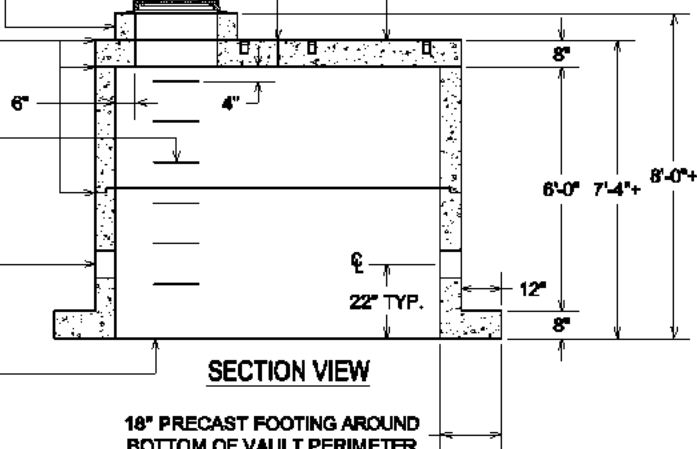
OUR STANDARD RUBBER ENCASED STEEL STEPS @ 12" O.C.

8" DIAMETER PIPING BLOCKOUTS 10" OFF THE TOP OF THE FOOTING TO THE BOTTOM OF THE BLOCKOUTS,
OPTIONAL: PRESS-IN GASKET FOR 2", 3" OR 4" PIPE CAN BE INSTALLED

BOTTOM OF VAULT PROVIDED OPEN, WITHOUT FLOOR

TOP OF JOINT PROVIDED WITH 6" WIDE X 10' LONG PIECE OF CS-212 CONWRAP FOR CONTRACTOR TO INSTALL AFTER LID SECTIONS ARE SET IN PLACE

TWO-SECTION LID PROVIDED WITH SINK-ITS FOR LIFTING

**SECTION VIEW**

18" PRECAST FOOTING AROUND BOTTOM OF VAULT PERIMETER

NOTES:

- CONCRETE: 5000 P.S.I. MINIMUM
- REINFORCING: GRADE 60 MINIMUM
- SUITABLE FOR AASHTO HS-20-44 LOADINGS

WEIGHTS:

- HEAVIEST PIECE WEIGHS APPX. 12,000 LBS.

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

DRAWING NOT TO SCALE

WATER METER VAULT, 6XB RING & COVER.DWG
DATE CREATED: 12/07
UPDATED: -----

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concrete products, inc.

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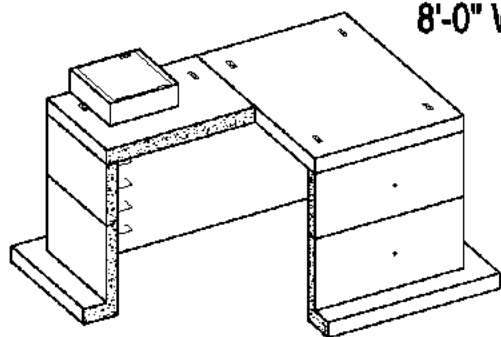
PRECAST CONCRETE

WATER METER VAULT

8'-0" WIDE X 10'-0" LONG X 6'-8" HIGH INSIDE DIMENSIONS

VCP ITEM #8010066 WMV WITH FOOTING

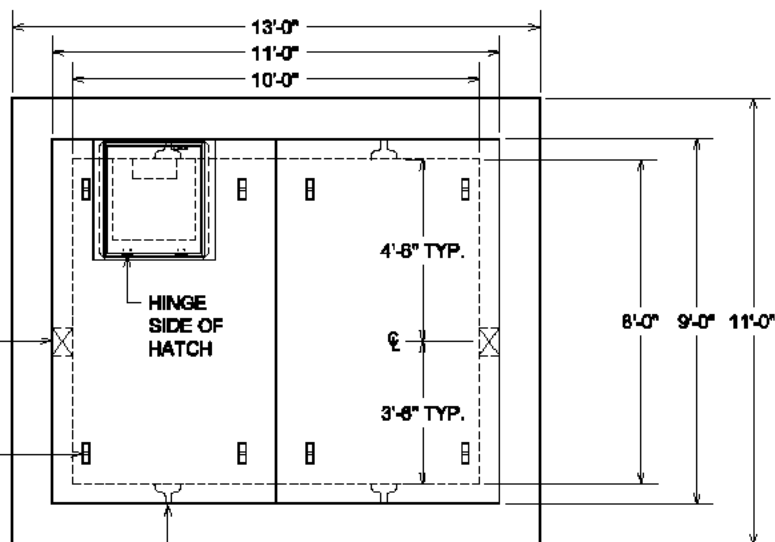
WITH TRAFFIC RATED HATCH



8" DIAMETER PIPING BLOCKOUTS 10" OFF THE TOP OF THE FOOTING TO THE BOTTOM OF THE BLOCKOUTS,
OPTIONAL: PRESS-IN GASKET FOR 2", 3" OR 4" PIPE CAN BE INSTALLED

LID SECTIONS LIFT WITH 4 SINK-ITS

VAULT SECTIONS LIFT WITH (4) 1½" COIL BOLTS

**PLAN VIEW**

24"W X 24"L I.D. X 12" TALL PRECAST CONCRETE COLLAR WITH AHS 24"X24" ALUMINUM TRAFFIC RATED HATCH CAST IN

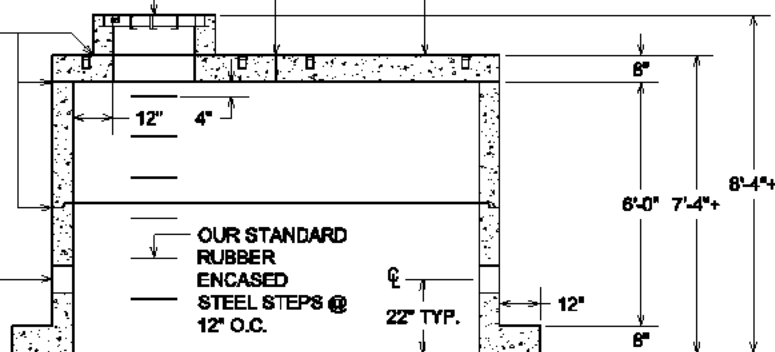
CONSEAL JOINT SEALANT

8" DIAMETER PIPING BLOCKOUTS 10" OFF THE TOP OF THE FOOTING TO THE BOTTOM OF THE BLOCKOUTS,
OPTIONAL: PRESS-IN GASKET FOR 2", 3" OR 4" PIPE CAN BE INSTALLED

BOTTOM OF VAULT PROVIDED OPEN, WITHOUT FLOOR

TOP OF JOINT PROVIDED WITH 6" WIDE X 12" LONG PIECE OF CS-212 CONWRAP FOR CONTRACTOR TO INSTALL AFTER LID SECTIONS ARE SET IN PLACE

TWO-SECTION LID PROVIDED WITH SINK-ITS FOR LIFTING

**SECTION VIEW**

18" PRECAST FOOTING AROUND BOTTOM OF VAULT PERIMETER

NOTES:

- CONCRETE: 5000 P.S.I. MINIMUM
- REINFORCING: GRADE 60 MINIMUM
- SUITABLE FOR AASHTO HS-20-44 LOADINGS WHEN PLACED ON MATERIAL CAPABLE OF SUPPORTING THE LOADINGS

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

WEIGHTS:

- HEAVIEST PIECE WEIGHS APPX. 15,000 LBS.

DRAWING NOT TO SCALE

WATER METER VAULT, EXIO HATCH/DWG
DATE CREATED: 12/08
UPDATED: -----

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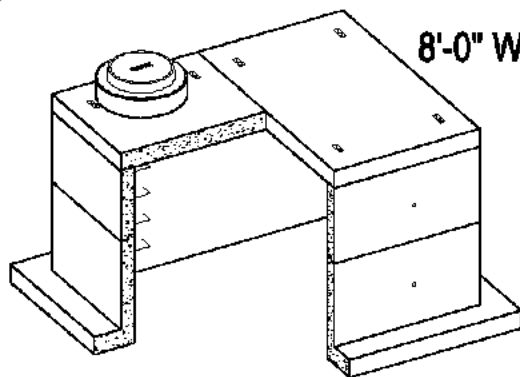
PRECAST CONCRETE

WATER METER VAULT

8'-0" WIDE X 10'-0" LONG X 6'-8" HIGH INSIDE DIMENSIONS

VCP ITEM #8010066 WMV WITH FOOTING

WITH RING & COVER



8" DIAMETER PIPING BLOCKOUTS 10" OFF THE TOP OF THE FOOTING TO THE BOTTOM OF THE BLOCKOUTS,
OPTIONAL: PRESS-IN GASKET FOR 2", 3" OR 4" PIPE CAN BE INSTALLED

LID SECTIONS LIFT WITH 4 SINK-ITS

VAULT SECTIONS LIFT WITH (4) 1½" COIL BOLTS

OUR STANDARD 24" DIAMETER CAST IRON RING & WATER METER COVER WITH HOLE & RECESS,
OR OUR STANDARD 24" DIAMETER ALUMINUM RING & COVER

24" I.D. X 8" TALL MANHOLE RISER

CONSEAL JOINT SEALANT

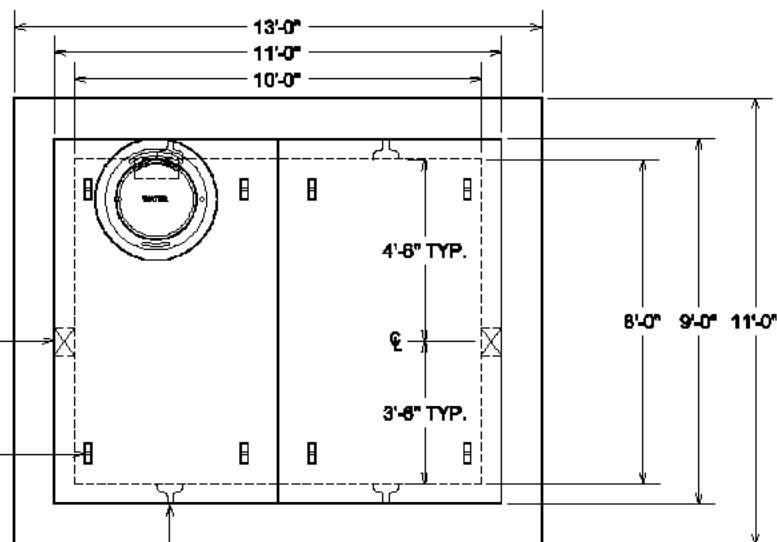
8" DIAMETER PIPING BLOCKOUTS 10" OFF THE TOP OF THE FOOTING TO THE BOTTOM OF THE BLOCKOUTS,
OPTIONAL: PRESS-IN GASKET FOR 2", 3" OR 4" PIPE CAN BE INSTALLED

BOTTOM OF VAULT PROVIDED OPEN,
WITHOUT FLOOR

NOTES:

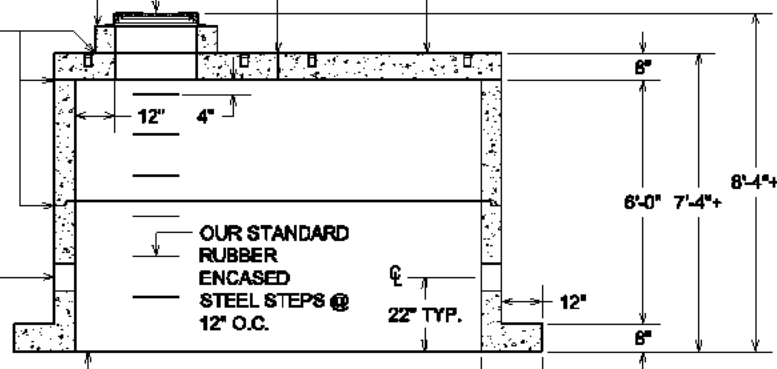
- CONCRETE: 5000 P.S.I. MINIMUM
- REINFORCING: GRADE 60 MINIMUM
- SUITABLE FOR AASHTO HS-20-44 LOADINGS WHEN PLACED ON MATERIAL CAPABLE OF SUPPORTING THE LOADINGS

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

**PLAN VIEW**

TOP OF JOINT PROVIDED WITH 6" WIDE X 12' LONG PIECE OF CS-212 CONWRAP FOR CONTRACTOR TO INSTALL AFTER LID SECTIONS ARE SET IN PLACE

TWO-SECTION LID PROVIDED WITH SINK-ITS FOR LIFTING

**SECTION VIEW**

18" PRECAST FOOTING AROUND
BOTTOM OF VAULT PERIMETER

WEIGHTS:

- HEAVIEST PIECE WEIGHS APPX. 15,000 LBS.

DRAWING NOT TO SCALE

WATER METER VAULT, EXCLUDING RING & COVERING
DATE CREATED: 12/08
UPDATED: -----

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concrete products, inc.

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10021 Amarillo Blvd East • Amarillo, Texas 79108 • 806-374-3747, Fax 806-335-3717

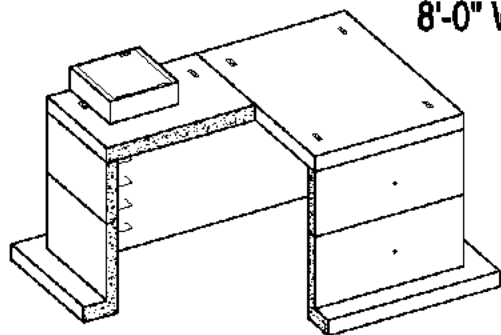
PRECAST CONCRETE

WATER METER VAULT

8'-0" WIDE X 12'-0" LONG X 6'-8" HIGH INSIDE DIMENSIONS

VCP ITEM #8012066 WMV WITH FOOTING

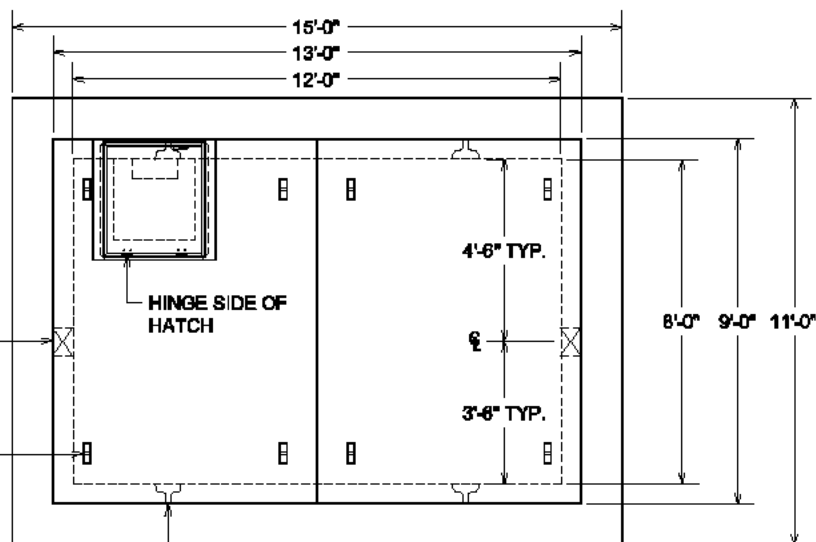
WITH TRAFFIC RATED HATCH



8" DIAMETER PIPING BLOCKOUTS 10" OFF THE TOP OF THE FOOTING TO THE BOTTOM OF THE BLOCKOUTS,
OPTIONAL: PRESS-IN GASKET FOR 2", 3" OR 4" PIPE CAN BE INSTALLED

LID SECTIONS LIFT WITH 4 SINK-ITS

VAULT SECTIONS LIFT WITH (4) 1½" COIL BOLTS

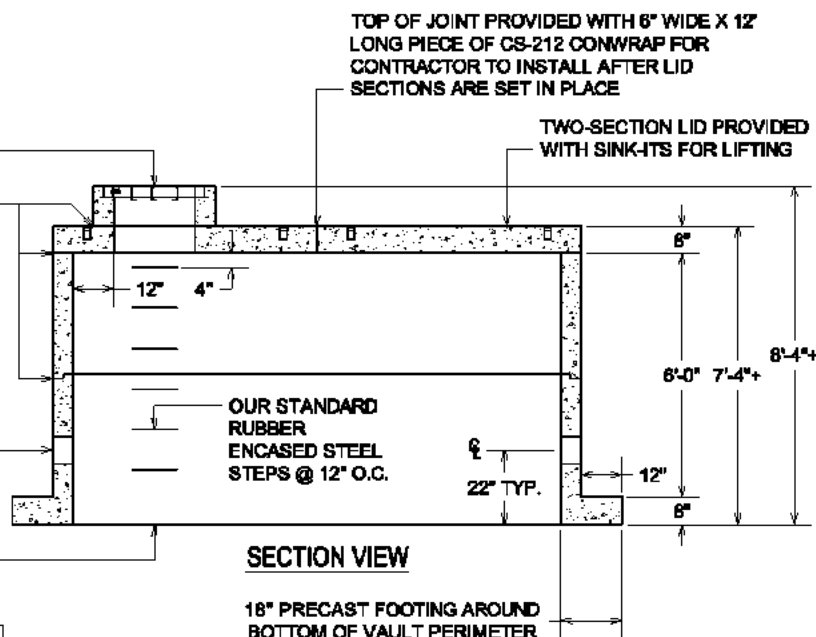
**PLAN VIEW**

24"W X 24"L I.D. X 12" TALL PRECAST CONCRETE COLLAR WITH AHS 24"X24" ALUMINUM TRAFFIC RATED HATCH CAST IN

CONSEAL JOINT SEALANT

8" DIAMETER PIPING BLOCKOUTS 10" OFF THE TOP OF THE FOOTING TO THE BOTTOM OF THE BLOCKOUTS,
OPTIONAL: PRESS-IN GASKET FOR 2", 3" OR 4" PIPE CAN BE INSTALLED

BOTTOM OF VAULT PROVIDED OPEN, WITHOUT FLOOR

**SECTION VIEW****NOTES:**

- CONCRETE: 5000 P.S.I. MINIMUM
- REINFORCING: GRADE 60 MINIMUM
- SUITABLE FOR AASHTO HS-20-44 LOADINGS

WEIGHTS:

- HEAVIEST PIECE WEIGHS APPX. 18,000 LBS.

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

DRAWING NOT TO SCALE

WATER METER VAULT, 8X12 HATCH.DWG
DATE CREATED: 12/07
UPDATED: -----

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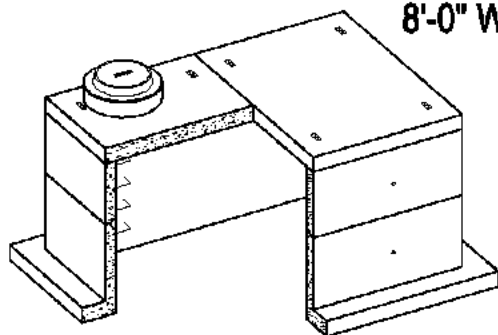
PRECAST CONCRETE

WATER METER VAULT

8'-0" WIDE X 12'-0" LONG X 6'-8" HIGH INSIDE DIMENSIONS

VCP ITEM #8012066 WMV WITH FOOTING

WITH RING & COVER



8" DIAMETER PIPING BLOCKOUTS 10" OFF THE TOP OF THE FOOTING TO THE BOTTOM OF THE BLOCKOUTS,
OPTIONAL: PRESS-IN GASKET FOR 2", 3" OR 4" PIPE CAN BE INSTALLED

LID SECTIONS LIFT WITH 4 SINK-ITS

VAULT SECTIONS LIFT WITH (4) 1 1/2" COIL BOLTS

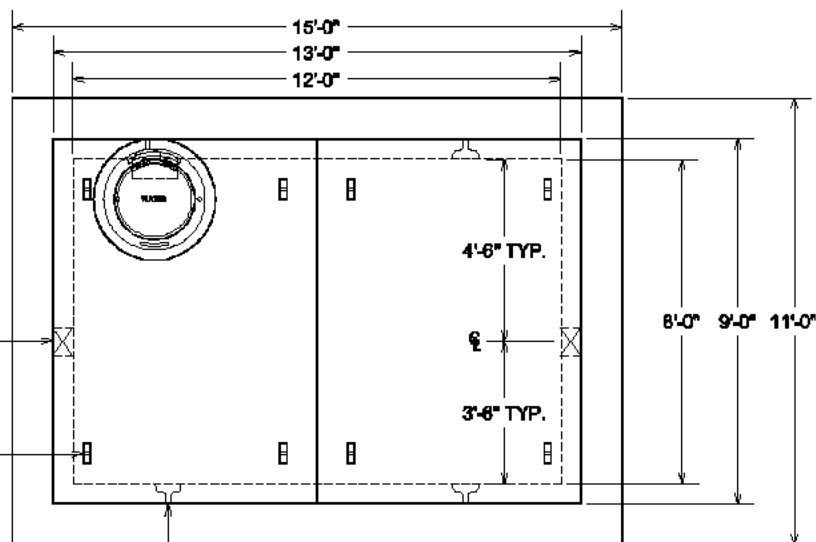
OUR STANDARD 24" DIAMETER CAST IRON RING & WATER METER COVER WITH HOLE & RECESS,
OR OUR STANDARD 24" DIAMETER ALUMINUM RING & COVER

24" I.D. X 8" TALL MANHOLE RISER

CONSEAL JOINT SEALANT

8" DIAMETER PIPING BLOCKOUTS 10" OFF THE TOP OF THE FOOTING TO THE BOTTOM OF THE BLOCKOUTS,
OPTIONAL: PRESS-IN GASKET FOR 2", 3" OR 4" PIPE CAN BE INSTALLED

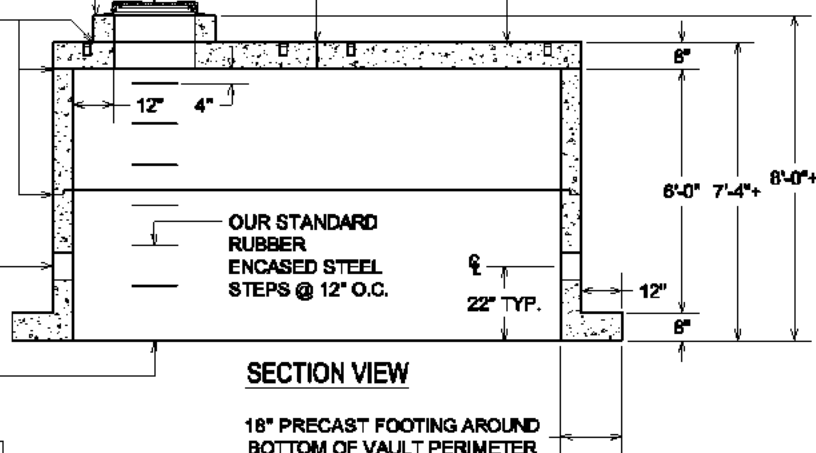
BOTTOM OF VAULT PROVIDED OPEN,
WITHOUT FLOOR



PLAN VIEW

TOP OF JOINT PROVIDED WITH 6" WIDE X 12' LONG PIECE OF CS-212 CONWRAP FOR CONTRACTOR TO INSTALL AFTER LID SECTIONS ARE SET IN PLACE

TWO-SECTION LID PROVIDED WITH SINK-ITS FOR LIFTING



SECTION VIEW

18" PRECAST FOOTING AROUND
BOTTOM OF VAULT PERIMETER

NOTES:

- CONCRETE: 5000 P.S.I. MINIMUM
- REINFORCING: GRADE 60 MINIMUM
- SUITABLE FOR AASHTO HS-20-44 LOADINGS

WEIGHTS:

- HEAVIEST PIECE WEIGHS APPX. 18,000 LBS.

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

DRAWING NOT TO SCALE

WATER METER VAULT, 6X12 RING & COVER/DWG
DATE CREATED: 12/07
UPDATED: -----

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12650 Tucson Street Henderson, Colorado 80640-9443 (303) 659-3747 Fax (303) 659-1333
 2671 S. Greeley Hwy Cheyenne, Wyoming 82007-3681 (307) 634-0695 Fax (307) 634-0694
 10021 Amarillo Blvd E. Amarillo, Texas 79108-7542 (806) 374-3747 Fax (806) 335-3717
 Toll Free Phone (877) 827-8255 Toll Free Fax (877) 827-7363
www.vaughnconcreteproducts.com

SAMPLE SPECIFICATION FOR PRECAST CONCRETE VAULTS

Precast Concrete Vaults are to be manufactured by a firm, which has a minimum of 5 years successful experience in fabrication of Precast Concrete units such as those required on this project. Precast Concrete Vaults to be manufactured by Vaughn Concrete Products, Inc., (877) 827-8255, or a pre-approved comparable manufacturer. For pre-approval all other manufacturers must present complete shop drawings and submittals for verification of compliance with design criteria along with a list of several completed projects using similar type products. The list of completed projects shall include project name, location, type and size of precast structure provided and a contact name with a phone number of an individual familiar with the project. This must be provided to the design engineer at least 21 days prior to project bid date. A full five days must be given to the design engineer for submittal review. Supplier approval must be obtained 14 days prior to bid opening. No late approvals will be allowed. A plant inspection will (may) also be required for production facility inspection, similar product inspection and to review record keeping for material certification. The submittal information must be supplied in accordance with requirements of the project specifications and must address compliance with the items listed below.

Precast Concrete Vaults shall be designed and manufactured in accordance with the requirements of ASTM C-857 and C-858 latest revision. The precast manufacturer shall submit shop drawings, structural design calculations performed by a registered engineer and material certifications as follows to verify all products used in manufacturing meet the design requirements:

REINFORCING BARS	ASTM A-615 or A-706
AGGREGATES	ASTM C-33
CEMENT	ASTM C-150
JOINT SEALANT	ASTM C-990

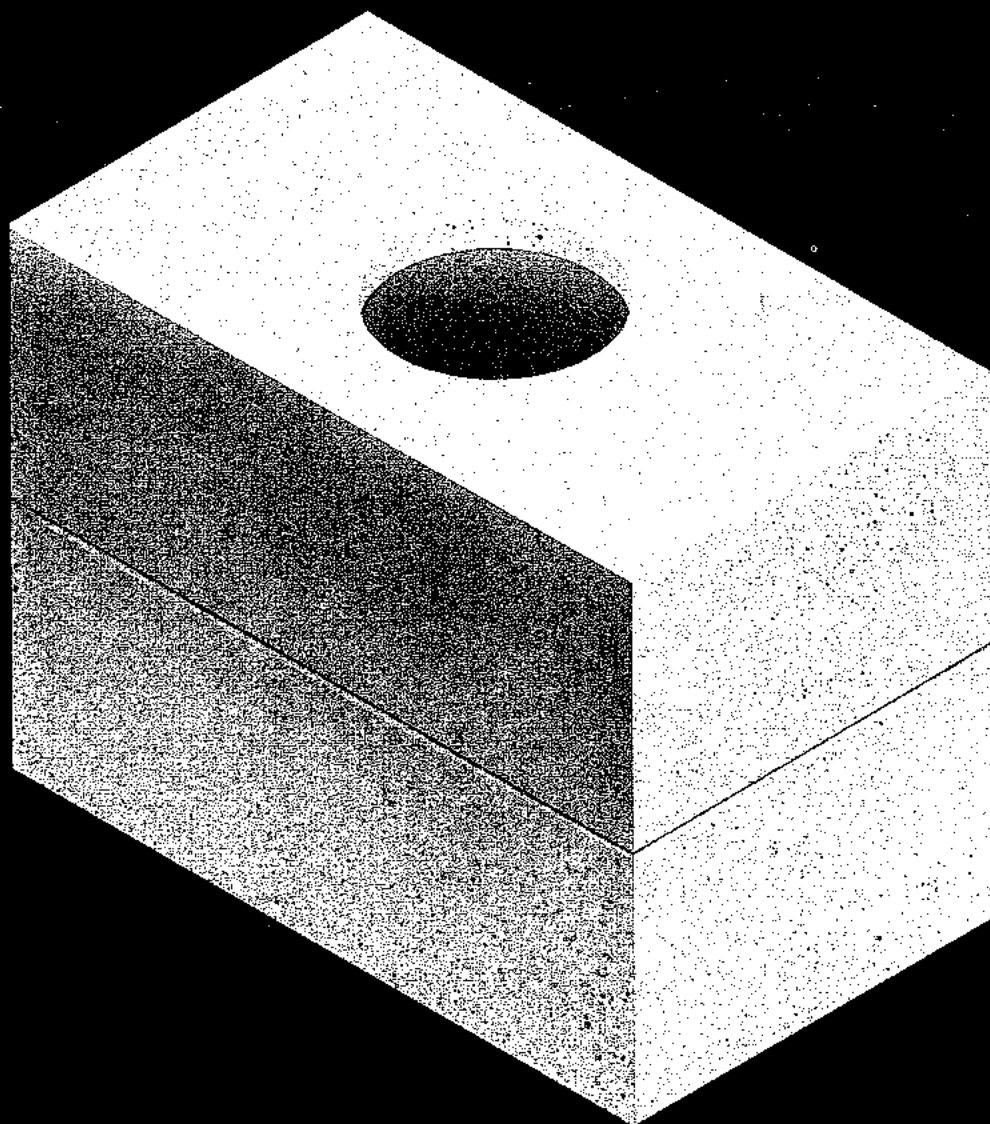
Production of precast units shall not begin until the design engineer and/or purchaser reviews and approves all submittals. Compressive strength test results for the precast units must be supplied prior to their delivery to verify that the strength requirements were met. The compressive strength tests must be done in accordance with ASTM C-39.

Designer is to specify:

Interior Width, Length and Height
Any Special Configurations (Piping Sizes and Locations)
Loading Requirements: Light, Medium or Heavy Traffic
Any Other Requirements

vaughn concrete products

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Precast Concrete Vault

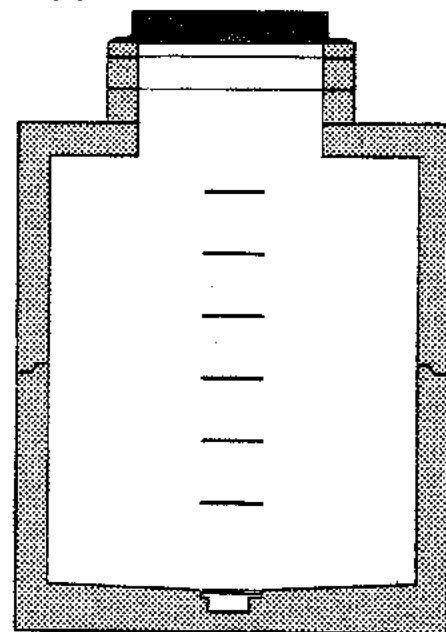
Vaughn **concrete products, inc.**

Precast Concrete Vault

Exceptionally suited for a wide range of uses

Vaughn's Precast Concrete Vaults are perfectly suited for your projects. Telecommunication, electrical, and mechanical contractors use precast vaults for housing switching, connecting or splicing equipment, and etc.. Our precast vaults are designed for underground stations such as these. Precast vaults are uniform, strong, durable and economical. Manufactured to your specifications, vaults can allow easy access to the interior and plenty of working room. The options listed on the opposite page can be cast in and/or added to the vault to make utility installation easier.

At Vaughn Concrete Products, Inc. our experienced personnel and controlled production techniques produce products that meet or exceed ASTM (American Society for Testing and Materials) and ACI (American Concrete Institute) standards. Quality control is supervised by certified concrete technicians.



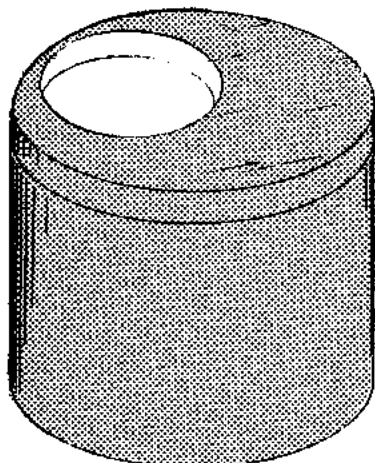
Basic vault:

Cut section end view
Notice the fitted joints, cast iron ring and cover, steps, vault risers, and sloped floor with sump

Manholes

Round manhole sections can be used as economical vaults.

Most manhole sizes are readily available. A variety of depths can easily be accommodated. The manhole can be equipped to handle most requirements, including block outs, steps, and different types of castings. Inside diameter sizes are 48", 60", 72", and 90".



Manhole barrel section
with lid and access opening

PROMPT DELIVERY FAST INSTALLATION

Let Vaughn Concrete Products, Inc. deliver and set the vaults in your ready excavation with our fleet of crane equipped trucks and trailers.

Options

Choose the options that best suit your specific needs

Sizes range from 3'x3'x4' to 24'x6'x9'
(length x width x height)

Varying sizes of access openings

Aluminum rings and covers

Cast iron rings and covers

Varying wall thicknesses

Special entry hatches

Cast in place frames

Grounding ribbon

Extension collars

Pulling in irons

Painted interior

Cable racking

H-20 loading

Terminators

Vault risers

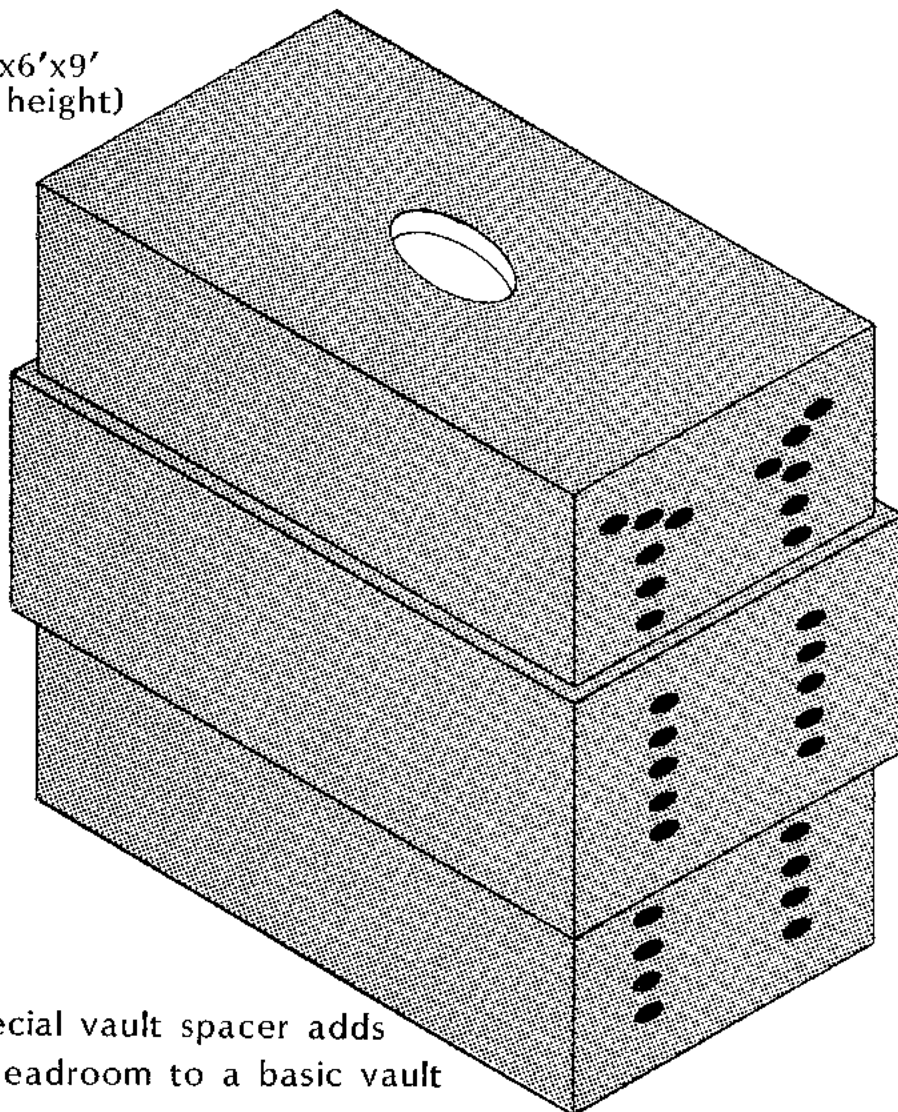
Block outs

Gaskets

Ladders

Steps

Sumps



Special vault spacer adds headroom to a basic vault

BENEFITS FOR CONTRACTORS AND OWNERS

Manufactured to meet your specifications.

Controlled production techniques generate a uniform product in quality, strength, and appearance.

Consistent tested quality.

Save construction time on the job.
Excavate, set, and backfill all in the same day.

Product exactly suited for the task.

These benefits add up to the cost savings associated with "THE PRECAST ADVANTAGE."



Vaughn Precast Concrete Vaults

Electrical Vault

Fiber Optic Vault

Grease Separator

Transformer Vault

Telecommunication Vault

Controlled Environmental Vault

Pull Box

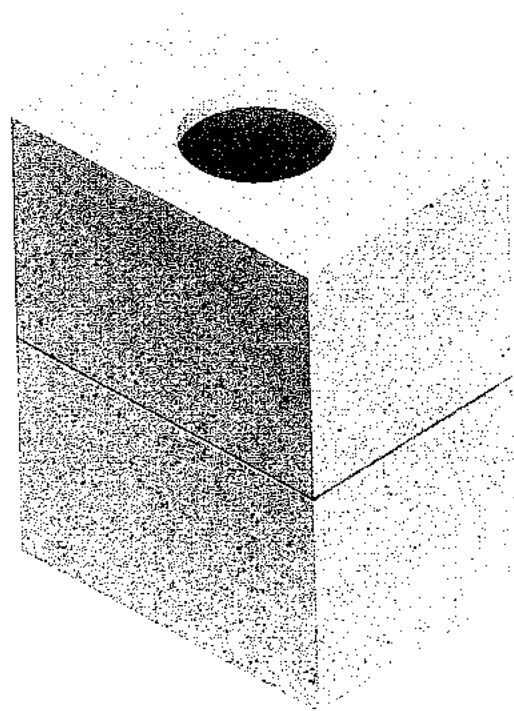
Service Box

Junction Box

Air Vac Vault

Hand Hole Box

Meter Pit Vault



If It's Precast, It's Built To Last

For more information and estimates
Call or write location nearest you.

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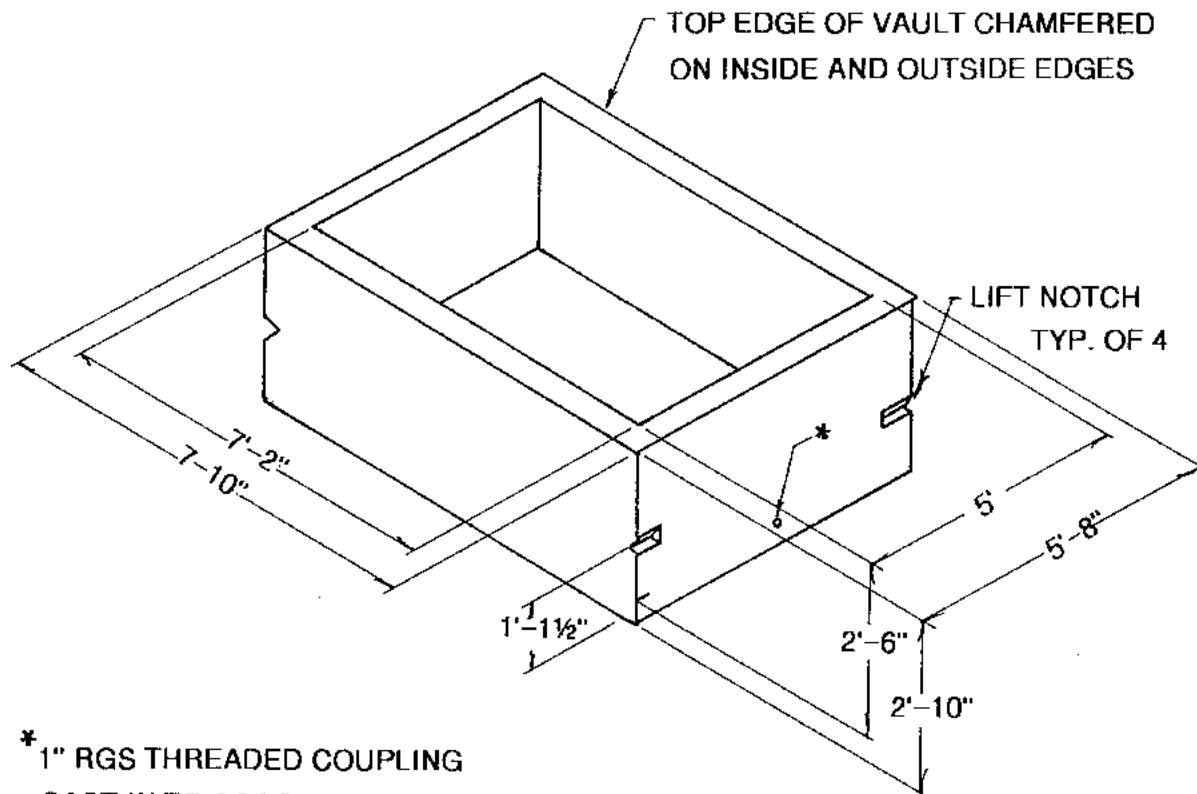
 **vaughn**
concrete products, inc.

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CONTAINMENT VAULT

5' Wide x 7'-2" Long x 2'-6" High Inside Dimensions

ECONOMICAL SECONDARY CONTAINMENT FOR
SMALL YARD AND JOBSITE FUEL TANKS



* 1" RGS THREADED COUPLING
CAST IN TO ACCOMMODATE
CONNECTING DRAIN VALVE

PROVIDED WITH LIFT NOTCHES FOR
EASY HANDLING AND TRANSPORT

UNIT WEIGHS APPROX. 5400 LBS.

Concrete 4000 P.S.I. Minimum

Reinforced with Wire Mesh

Actual dimensions of concrete products may vary slightly

vaughn
concrete products, inc.

UPDATED 11/97

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Precast Concrete

SECONDARY CONTAINMENT VAULT

USED FOR HOUSING UNDERGROUND STORAGE TANKS THAT STORE PETROLEUM PRODUCTS
AND OTHER POTENTIALLY HAZARDOUS MATERIALS

BOTTOM SECTION IS MONOLITHIC AND IS DESIGNED
TO CONTAIN APPROXIMATELY 120% OF STORAGE TANKS CAPACITY

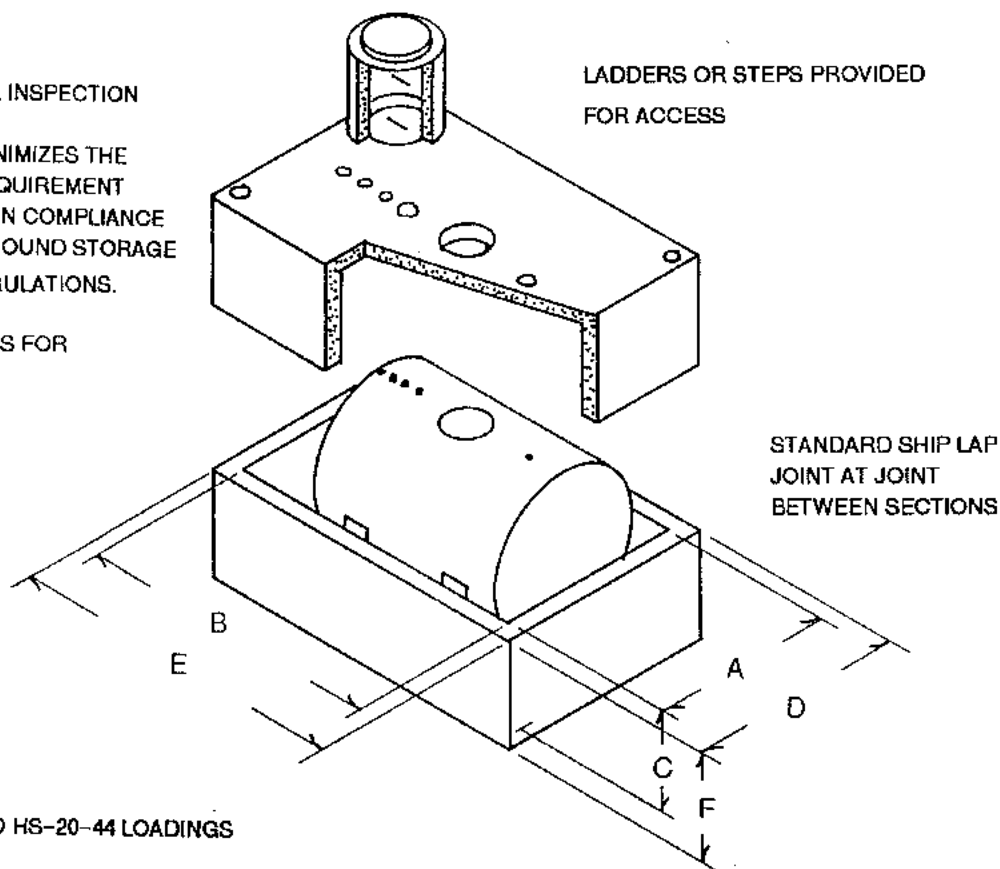
CAST IRON RING AND COVER
(WATERTIGHT)

BENEFITS

ALLOWS VISUAL INSPECTION
OF TANK.
THEREFORE MINIMIZES THE
NUMBER OF REQUIREMENT
NEEDED TO BE IN COMPLIANCE
WITH UNDERGROUND STORAGE
TANK (UST) REGULATIONS.

ALLOWS ACCESS FOR
REPAIRS

LADDERS OR STEPS PROVIDED
FOR ACCESS



STANDARD SHIP LAP
JOINT AT JOINT
BETWEEN SECTIONS

DESIGNED TO
SATISFY AASHTO HS-20-44 LOADINGS

SEE TABLE FOR DIMENSIONS
OF STANDARD UNITS

OPENINGS IN TOP PROVIDED FOR :
HIGH VENT, LOW VENT
FILL RISER
VAPOR RECOVERY LINE
MONITOR RISER
EMERGENCY RELIEF VENT
TANK ACCESS WHEN APPLICABLE
FRESH AIR BLOWER PIPE

Actual dimensions of concrete products may vary slightly

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concrete products, inc.

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SECONDARY CONTAINMENT VAULT

Standard Monolithic Sizes Shown Are For Determining Containment Capacity
Desired Inside Vault Height May Be Achieved With Adding Top Section and
Intermediate Sections As Required For Additional Height

Other Sizes Are Available in Even Foot Increments By Special Order

VCP Item # Specify Inside Height With Last 2 Numbers	A Inside Width	B Inside Length	C Inside Maximum Height	D Outside Width	E Outside Length	F Outside Height	G Lid
VCP 2020	2'	2'	4'	3'	3'	4'-6"	6"
VCP 2030	2'	3'	4'	3'	4'	4'-6"	6"
VCP 2530	2'-6"	3'	4'	3'6"	4'	4'-6"	6"
VCP 3030	3'	3'	4'	4'	4'	4'-6"	6"
VCP 3050	3'	5'	4'	4'	6'	4'-6"	6"
VCP 4040	4'	4'	6'	5'	5'	6'-6"	6"
VCP 4060	4'	6'	4'	5'	7'	4'-6"	6"
VCP 5050	5'	5'	4'	6'	6'	4'-6"	8"
VCP 50120	5'	12'	4'	6'	13'	4'-6"	8"
VCP 6060	6'	6'	6'	7'	7'	6'-6"	8"
VCP 6080	6'	8'	4'	7'	9'	4'-6"	8"
VCP 60120	6'	12'	4'	7'	13'	4'-6"	8"
VCP 60160	6'	16'	4'	7'	17'	4'-6"	8"
VCP 60180	6'	18'	4'	7'	19'	4'-6"	8"
VCP 60240	6'	24'	4'	7'	25'	4'-6"	8"
VCP 8080	8'	8'	4'	9'	9'	4'-6"	8"
VCP 80100	8'	10'	4'	9'	11'	4'-6"	8"
VCP 80120	8'	12'	4'	9'	13'	4'-6"	8"
VCP 9090	9'	9'	4'	10'	10'	4'-6"	8"
VCP 100100	10'	10'	4'	11'	11'	4'-8"	12"
VCP 100120	10'	12'	4'	11'	13'	4'-8"	12"

Larger Sizes Are Available - Contact Vaughn Concrete Products

Size Specification Example: Vault with inside dimensions 5' wide x 12' long
x 8'-0" high,
Item #VCP SC 5012080 For 1000 Gallon Tank

Vault Options: See vault options sheets for more information for
ordering options.

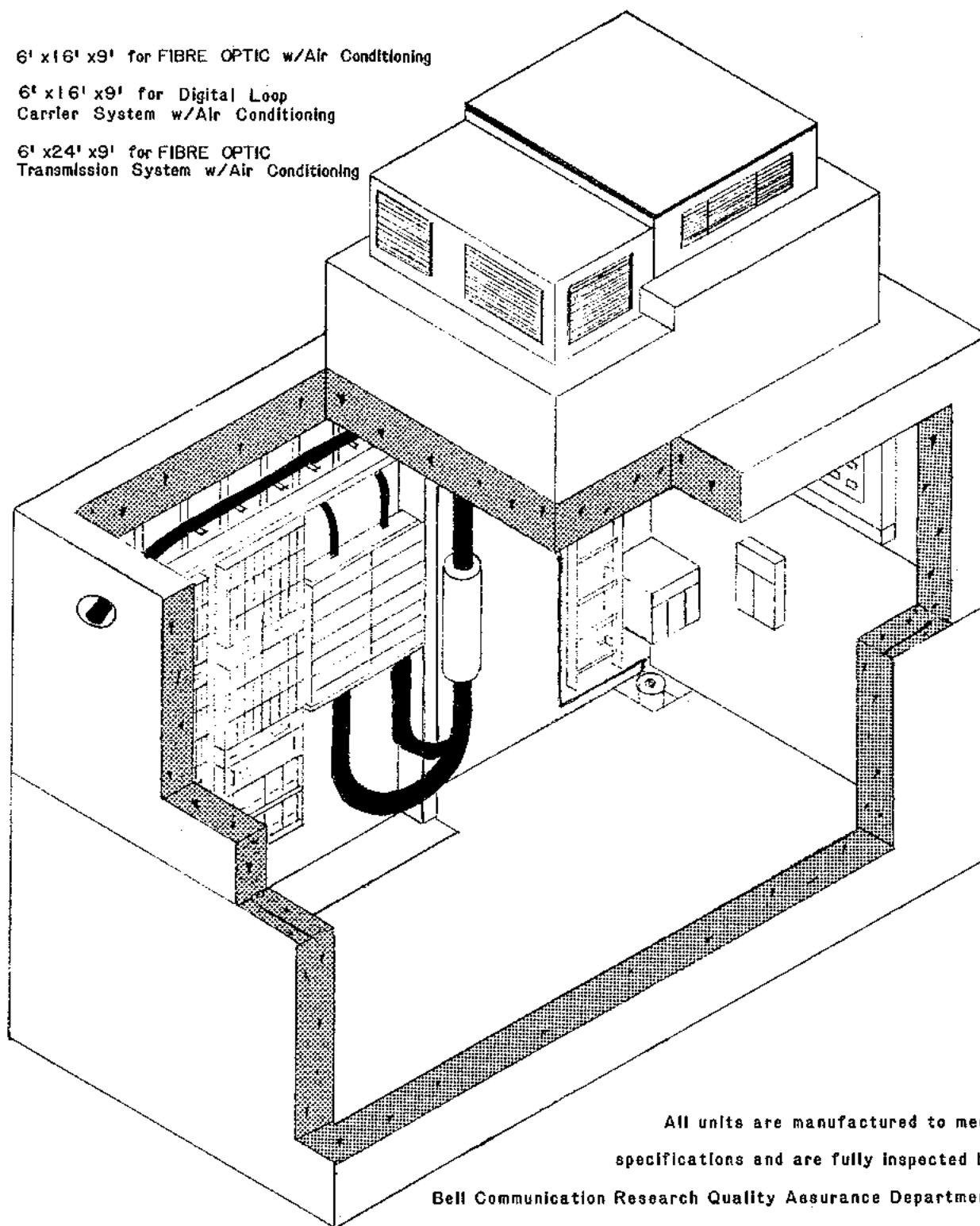
Precast Concrete

Controlled Environment Vault

6' x 16' x 9' for FIBRE OPTIC w/Air Conditioning

6' x 16' x 9' for Digital Loop
Carrier System w/Air Conditioning

6' x 24' x 9' for FIBRE OPTIC
Transmission System w/Air Conditioning



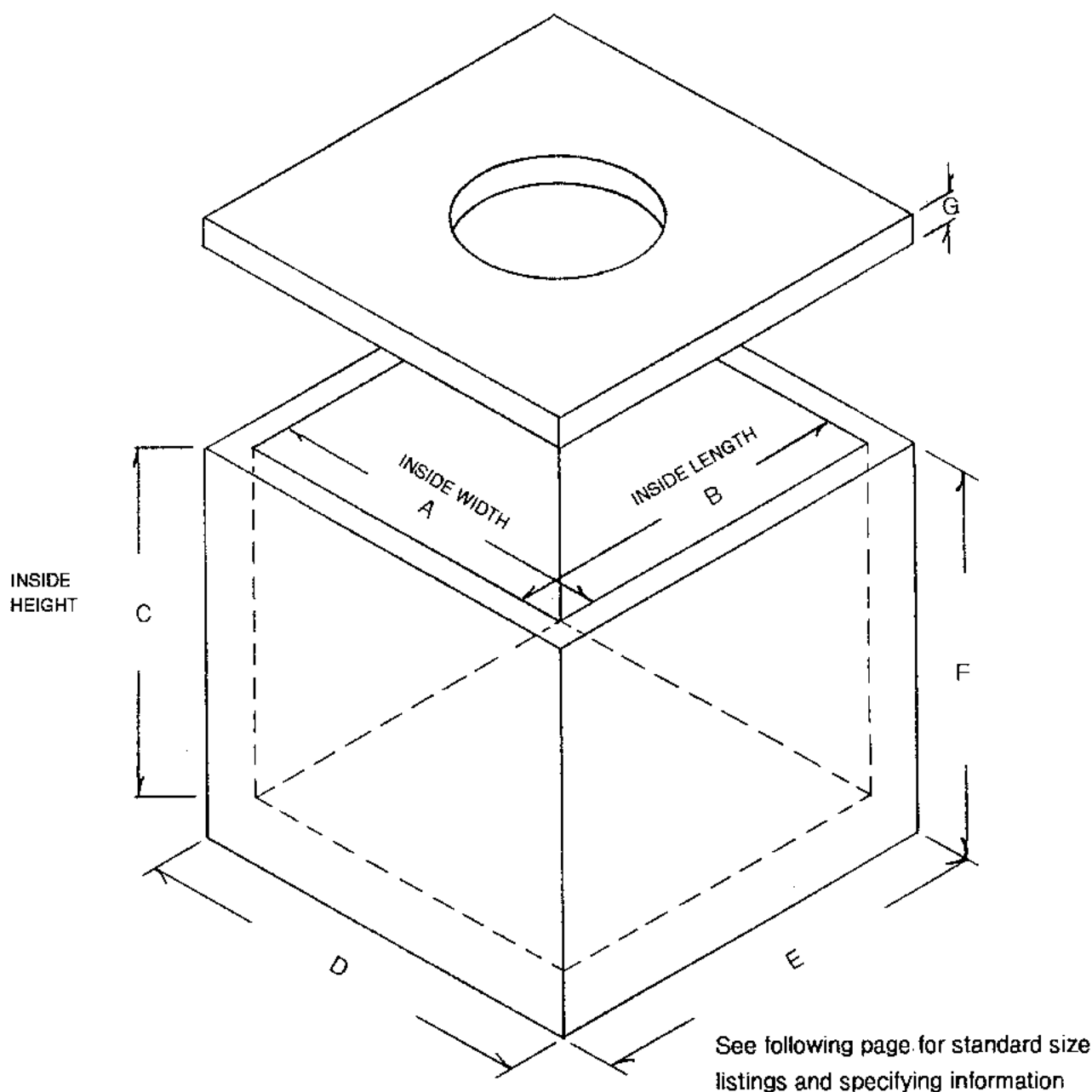
All units are manufactured to meet
specifications and are fully inspected by

Bell Communication Research Quality Assurance Department

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Precast Concrete

**MONOLITHIC VAULT
WITH LID**

Actual dimensions of concrete products may vary slightly

**Vaughn
concrete products, inc.**

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MONOLITHIC VAULT WITH LID

(All Monolithic Vaults Have Removable Lid)

Standard Monolithic Sizes Shown

Other Sizes Are Available in Even Foot Increments By Special Order

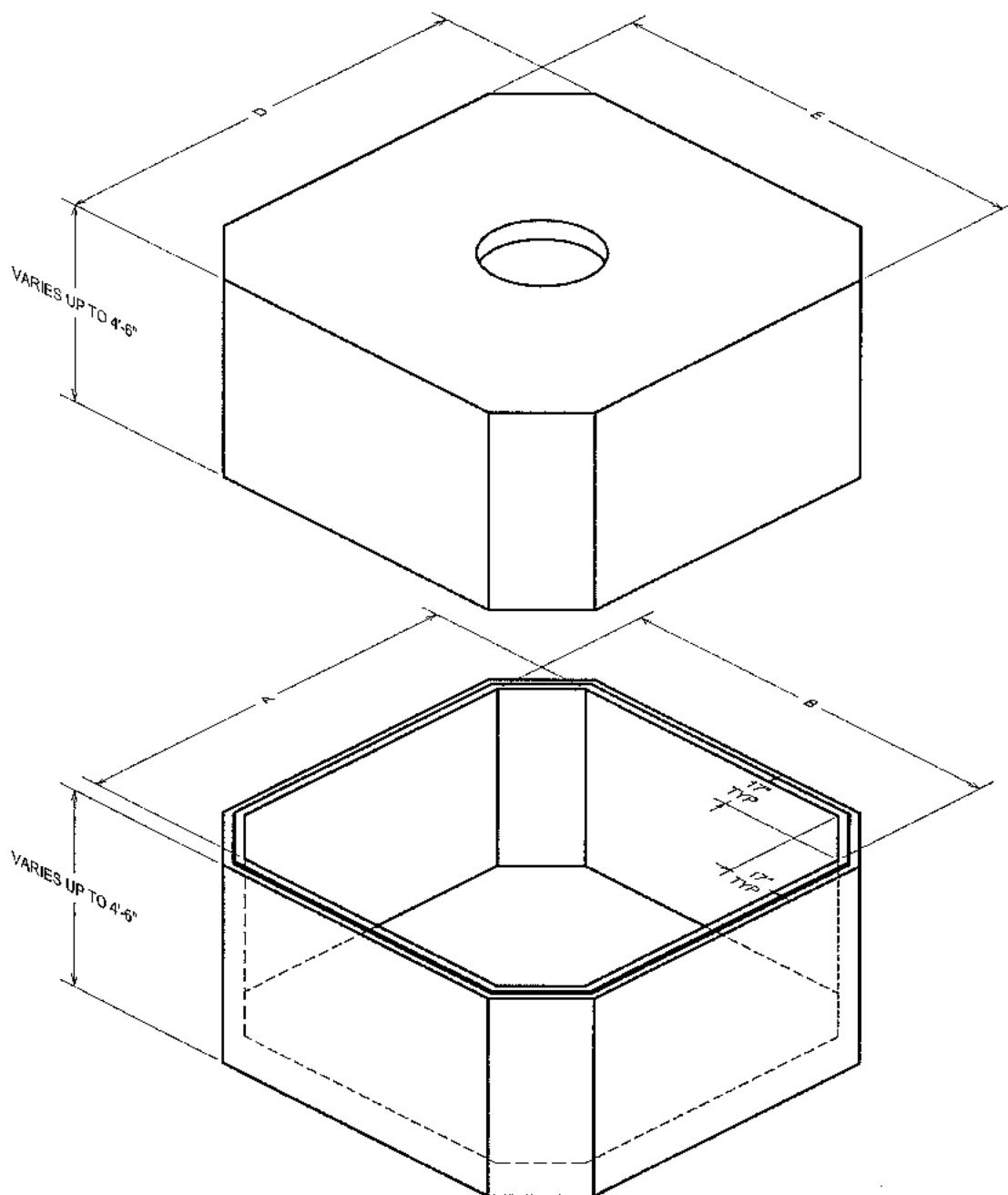
VCP Item # Specify Inside Height With Last 2 Numbers	A Inside Width	B Inside Length	C Inside Maximum Height	D Outside Width	E Outside Length	F Outside Height	G Lid
VCP 2020	2'	2'	4'	3'	3'	4'-6"	6"
VCP 2030	2'	3'	4'	3'	4'	4'-6"	6"
VCP 2530	2'-6"	3'	4'	3'6"	4'	4'-6"	6"
VCP 3030	3'	3'	4'	4'	4'	4'-6"	6"
VCP 3050	3'	5'	4'	4'	6'	4'-6"	6"
VCP 4040	4'	4'	6'	5'	5'	6'-6"	6"
VCP 4060	4'	6'	4'	5'	7'	4'-6"	6"
VCP 5050	5'	5'	4'	6'	6'	4'-6"	8"
VCP 50120	5'	12'	4'	6'	13'	4'-6"	8"
VCP 6060	6'	6'	6'	7'	7'	6'-6"	8"
VCP 6080	6'	8'	4'	7'	9'	4'-6"	8"
VCP 60120	6'	12'	4'	7'	13'	4'-6"	8"
VCP 60160	6'	16'	4'	7'	17'	4'-6"	8"
VCP 60180	6'	18'	4'	7'	19'	4'-6"	8"
VCP 60240	6'	24'	4'	7'	25'	4'-6"	8"
VCP 8080	8'	8'	4'	9'	9'	4'-6"	8"
VCP 80100	8'	10'	4'	9'	11'	4'-6"	8"
VCP 80120	8'	12'	4'	9'	13'	4'-6"	8"
VCP 9090	9'	9'	4'	10'	10'	4'-6"	8"
VCP 100100	10'	10'	4'	11'	11'	4'-8"	12"
VCP 100120	10'	12'	4'	11'	13'	4'-8"	12"

Size Specification Example: Vault with inside dimensions 5' wide x 12' long x 3'-6" high, without floor is
Item #VCP MONO 5012035NF.

Suffix Abbreviations: NF = No Floor

Vault Options: See vault options sheets for more information for ordering options.

PRECAST CONCRETE SECTIONAL OCTAGON VAULT



NOTE:

SECTIONAL SQUARE VAULTS ARE TYPICALLY USED FOR VAULT/MANHOLE APPLICATIONS ON A MORE READILY AVAILABLE BASIS

DIMENSION C IS THE MAXIMUM ASSEMBLED INSIDE HEIGHT

ACTUAL DIMENSIONS OF CONCRETE PRODUCTS MAY VARY SLIGHTLY

SEE FOLLOWING PAGE FOR STANDARD SIZE LISTINGS & SPECIFYING INFORMATION

vaughn
concrete products, inc.

OCTAGON VAULT-C COLDWING
DATE CREATED: 11.20.02

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SECTIONAL OCTAGON VAULTS

**Sectional Square Vaults Are Typically Used For Vault/Manhole Applications On A More
Readily Available Basis**

Octagon Vaults Are Available If Required

Updated 11/02

Standard Octagon Sizes Shown

Other Sizes Are Available In Even Foot Increments By Special Order

VCP Item # Specify Inside Height With Last 2 Numbers	A Inside Width	B Inside Length	C 2 Section Inside Maximum Height ****	D Outside Width	E Outside Length
VCP OCT 8080	8'	8'	8'	9'	9'
VCP OCT 100100	10'	10'	8'	11'	11'

Size Specification Example: Vault with inside dimensions 10' wide x 10' long x 6'-6" high is
Item #10010065

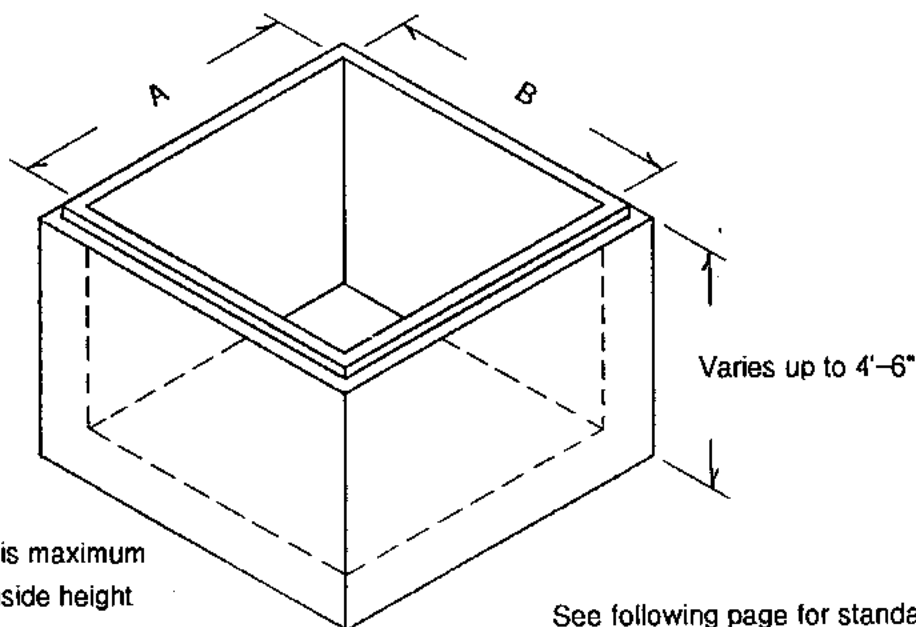
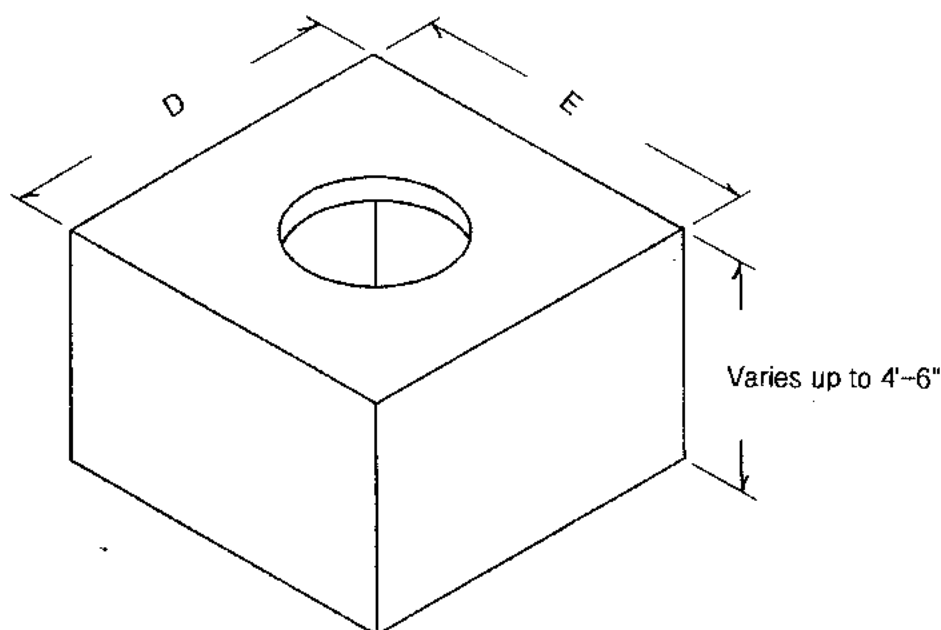
Suffix Abbreviations: - NF = No Floor

- With Removable Lid (would allow lid only to be removed to allow work
in the vault)

**** Remember additional height is easily achieved by adding intermediate sections.

Vault Options: See vault options sheets for more information for ordering options.

Precast Concrete

SECTIONAL SQUARE VAULT

C dimension is maximum
assembled inside height

See following page for standard size
listings and specifying information

Actual dimensions of concrete products may vary slightly

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concrete products, inc.

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SECTIONAL SQUARE VAULTS

Updated 11/98

Standard Square Sizes Shown

Other Sizes Are Available In Even Foot Increments By Special Order

VCP Item # Specify Inside Height With Last 2 Numbers	A Inside Width	B Inside Length	C 2 Section Inside Maximum Height ****	D Outside Width	E Outside Length
VCP 2020	2'	2'	8'	3'	3'
VCP 3030	3'	3'	8'	4'	4'
VCP 4040	4'	4'	8'	5'	5'
VCP 5050	5'	5'	8'	6'	6'
VCP 6060	6'	6'	8'	7'	7'
VCP 8080	8'	8'	8'	9'	9'
VCP 9090	9'	9'	8'	10'	10'
VCP 100100	10'	10'	8'	11'	11'
VCP 120120	12'	12'	8'	13'	13'

Size Specification Example: Vault with inside dimensions 10' wide x 10' long x 6'-6" high is Item #10010065

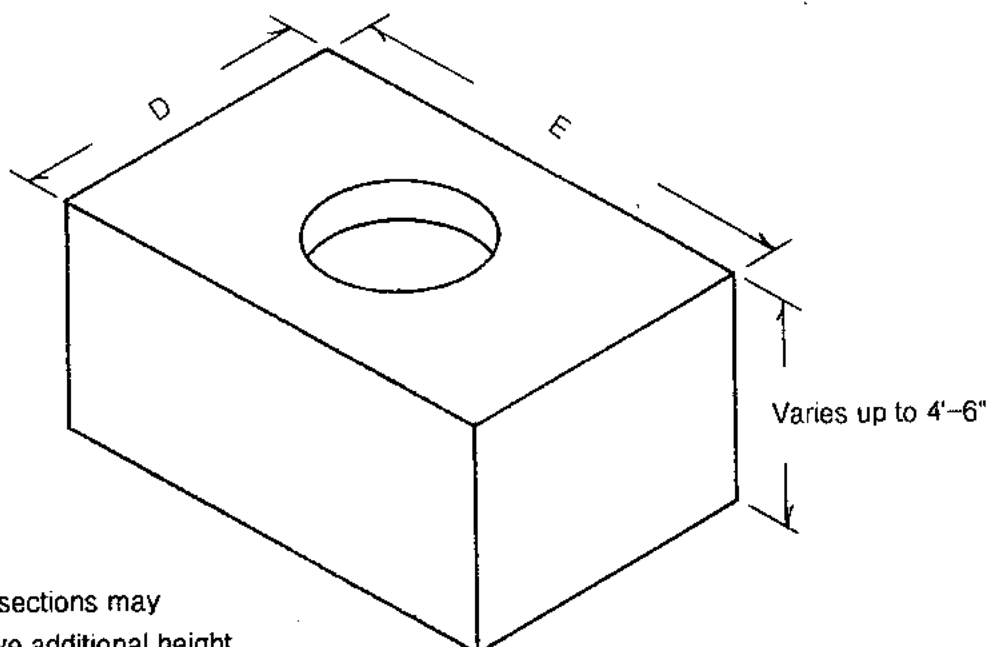
Suffix Abbreviations: - NF = No Floor

- With Removable Lid (would allow lid only to be removed to allow work in the vault)

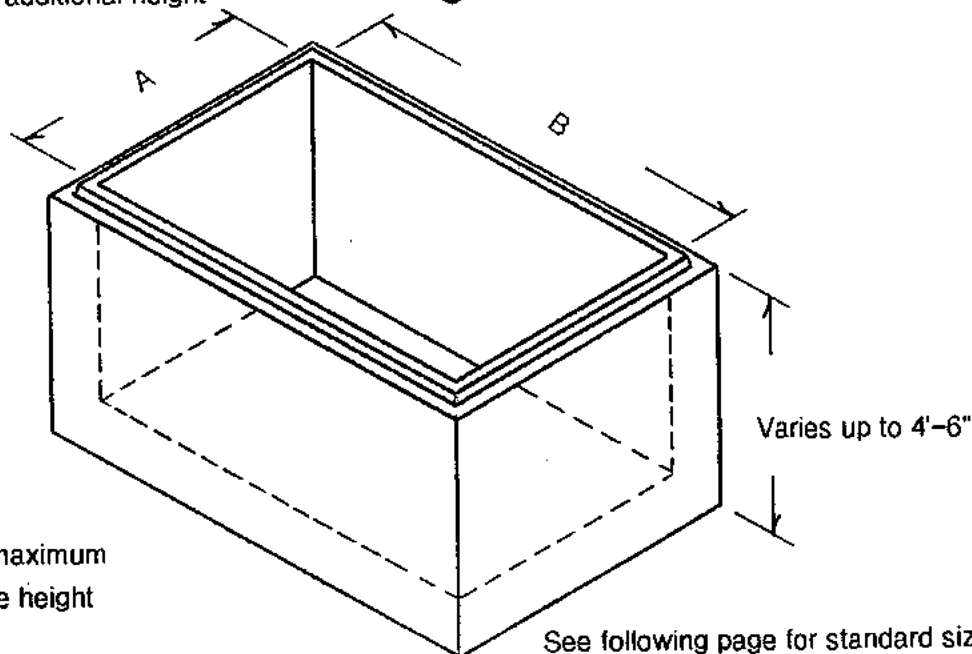
**** Remember additional height is easily achieved by adding intermediate sections.

Vault Options: See vault options sheets for more information for ordering options.

Precast Concrete

SECTIONAL RECTANGULAR VAULT

Intermediate riser sections may
be added to achieve additional height



C dimension is maximum
assembled inside height

See following page for standard size
listings and specifying information

Actual dimensions of concrete products may vary slightly

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SECTIONAL RECTANGULAR VAULTS

Updated 11/98

Standard Rectangular Sizes Shown

Other Sizes Are Available In Even Foot Increments By Special Order

VCP Item # Specify Inside Height With Last 2 Numbers	A Inside Width	B Inside Length	C 2 Section Inside Maximum Height *****	D Outside Width	E Outside Length
VCP 2030	2'	3'	8'	3'	4'
VCP 2530	2'-6"	3'	8'	3'-6"	4'
VCP 3050	3'	5'	8'	4'	6'
VCP 4060	4'	6'	8'	5'	7'
VCP 50120	5'	12'	8'	6'	13'
VCP 6080	6'	8'	8'	7'	9'
VCP 60120	6'	12'	8'	7'	13'
VCP 60160	6'	16'	8'	7'	17'
VCP 60180	6'	18'	8'	7'	19'
VCP 60240	6'	24'	8'	7'	25'
VCP 80100	8'	10'	8'	9'	11'
VCP 80120	8'	12'	8'	9'	13'
VCP 100120	10'	12'	8'	11'	13'
VCP 100160	10'	16'	8'	11'-4"	17'-4"
VCP 100200	10'	20'	8'	11'-4"	21'-4"
VCP 120160	12'	16'	8'	13'-4"	17'-4"
VCP 120200	12'	20'	8'	13'-4"	21'-4"

Size Specification Example: Vault with inside dimensions 5' wide x 12' long x 6'-6" high, without floor with removable lid is Item #VCP 5012065NF with removable lid.

Suffix Abbreviations: - NF = No Floor

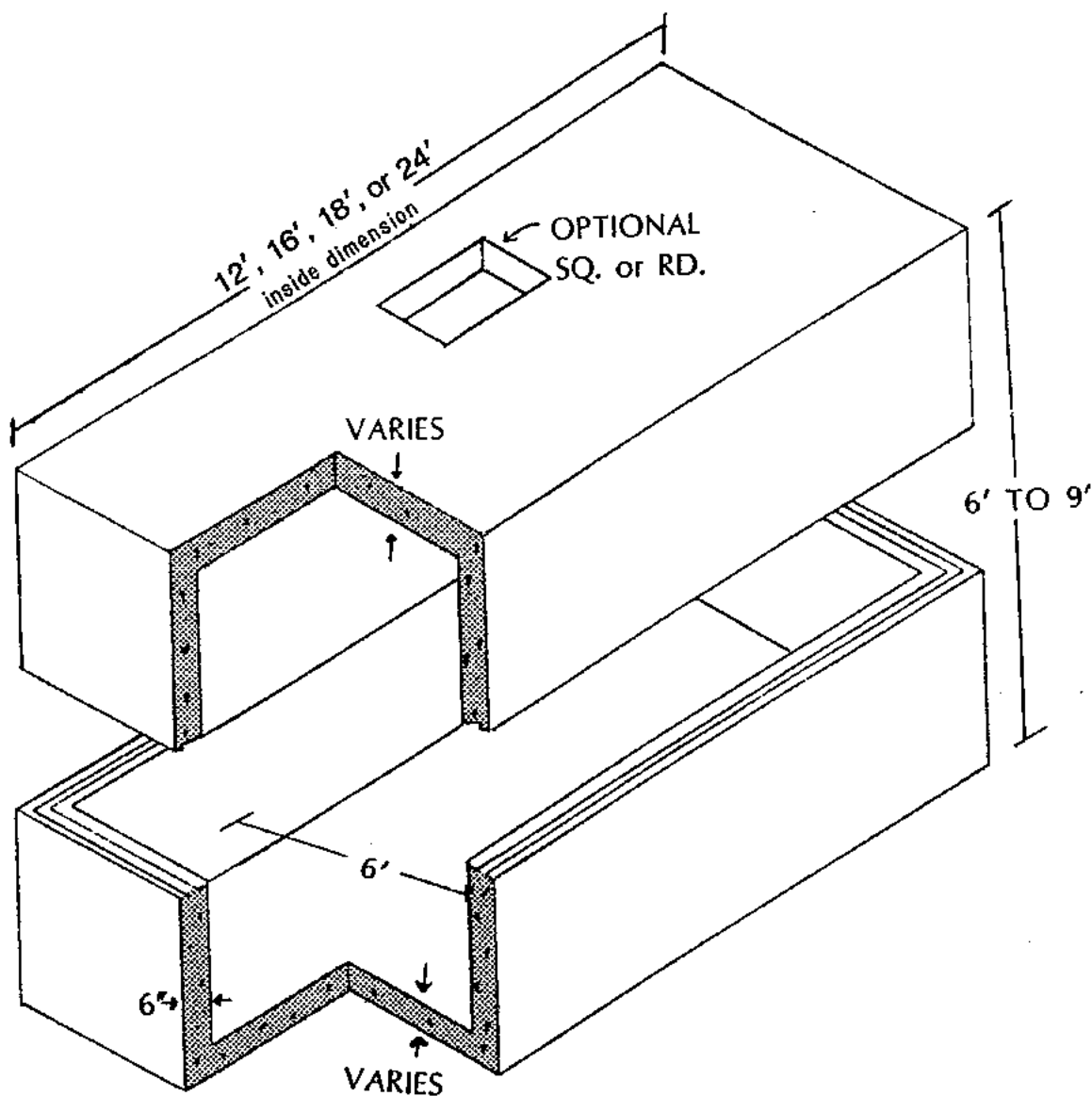
- With Removable Lid (would allow lid only to be removed to allow work in the vault)

**** Remember additional height is easily achieved by adding intermediate sections.

Vault Options: See vault options sheet for more information for ordering options.

Precast Concrete

Utility Vault



H-20 LOADING AVAILABLE

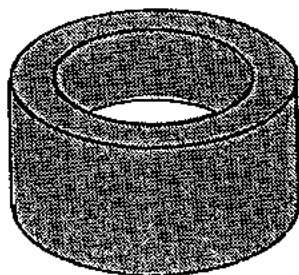
KNOCKOUTS
LOC/SIZE OPT.

Actual dimensions of concrete products may vary slightly

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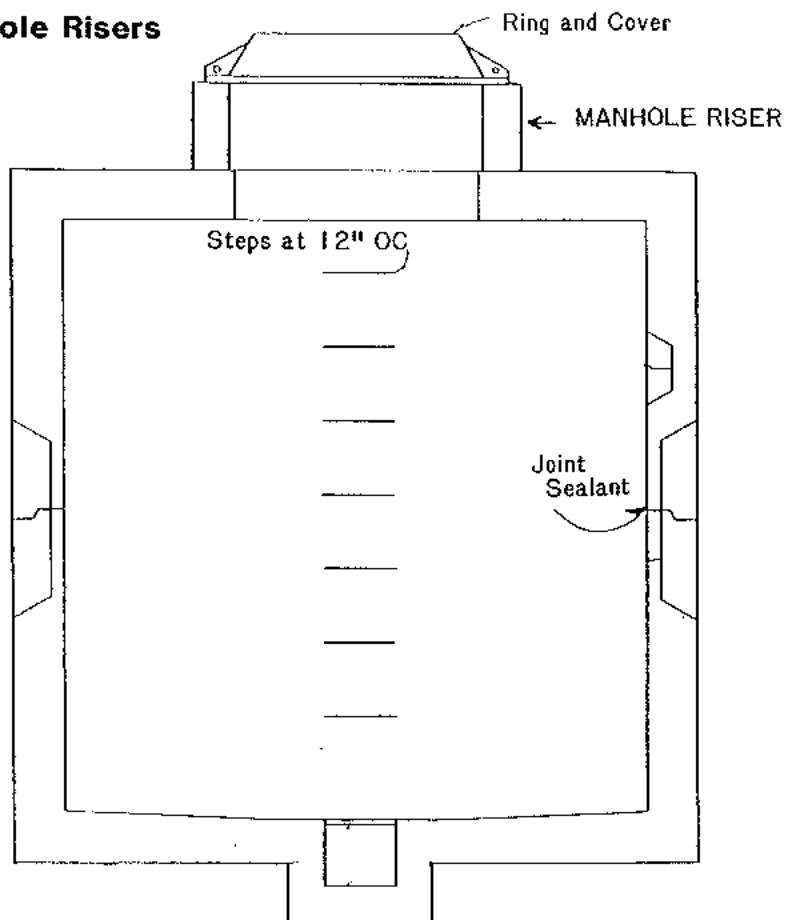
VAULT ACCESSORIES



Manhole Risers

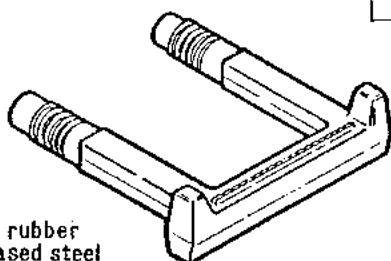
Available in 24", 30", 34",
36", 42" and 48" ID

Heights are achieved by
stacking standard heights
manufactured in that size

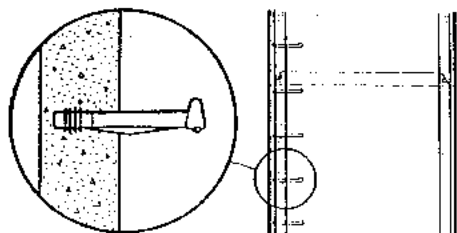


Manhole Steps

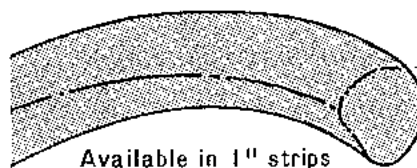
OSHA approved
Meets all federal specifications



12" rubber
encased steel



Joint Sealant



Available in 1" strips

vaughn
concrete products, inc.

UPDATED 11/97

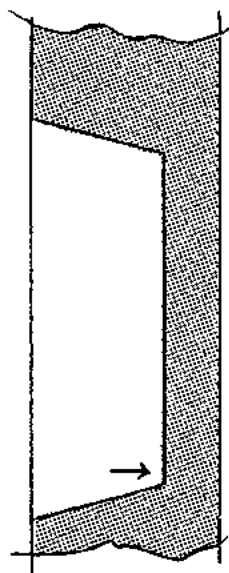
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Precast Concrete VAULT OPTIONS

Piping Penetration Options

Windows or Knockouts:

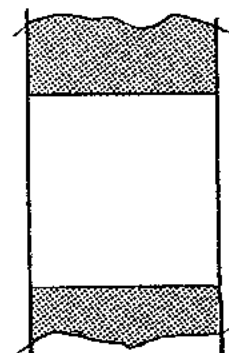
Recessed portion
in wall without
reinforcing to
allow field
placement of
piping.
Depth is usually wall
thickness minus
2 inches



Thickness is usually 2"

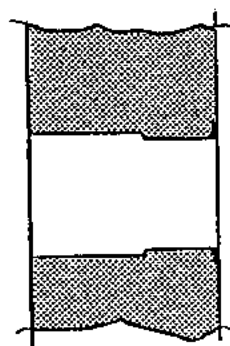
Blockouts:

Opening placed
in wall section



Belled ends or wall sleeves cast in:

Length of sleeve
to be same as
wall thickness



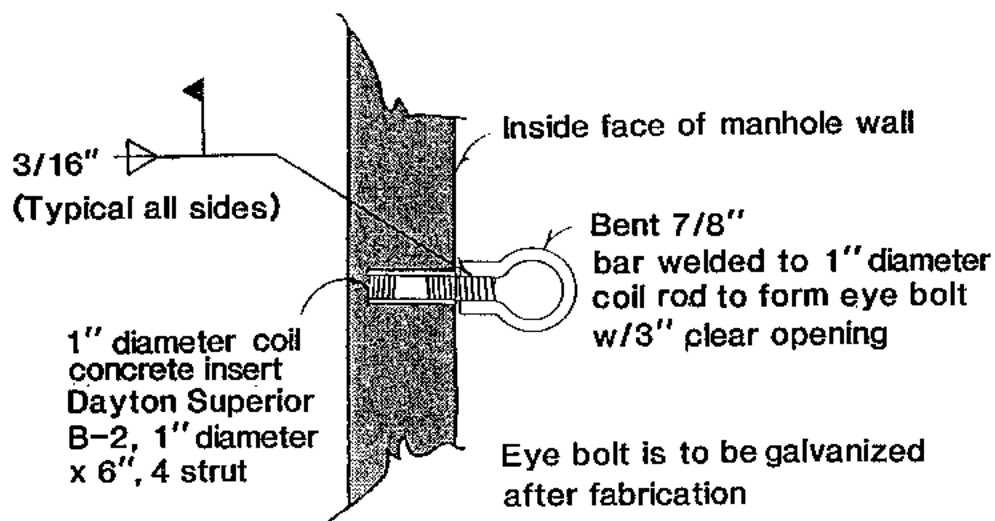
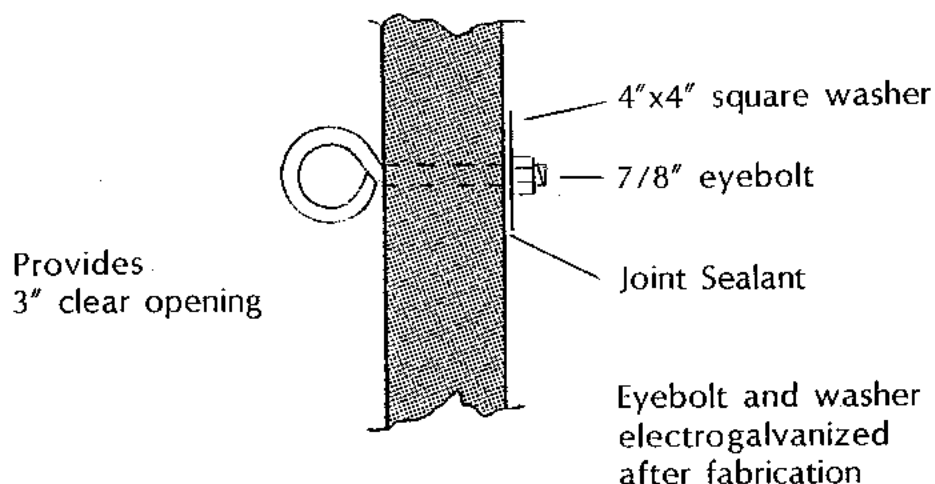
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Precast Concrete

VAULT OPTIONS

Pulling Irons



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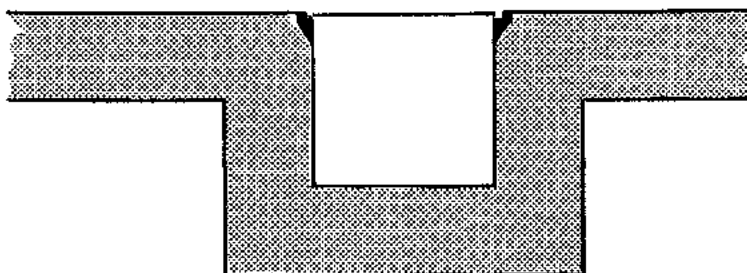
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Precast Concrete

VAULT OPTIONS**Sump**

12" x 12" x 12"

With or without
cast iron frame
and grate
can be provided
separately or
monolithically cast

**Sump Recessed In Floor**

Recess in floor,
depth to be
floor thickness
minus 2"

Drain Sump

Blockout placed
in floor to allow
water to escape

**Plastic Insert Sump**

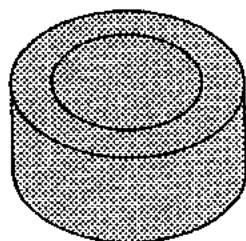
Provides recess
with a plastic
cover

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concrete products, inc.

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VAULT OPTIONS

See Manhole Accessories in this section for additional information



Manhole Riser

Standard inside dimensions:
24", 30", 34", 36", 42", 48"

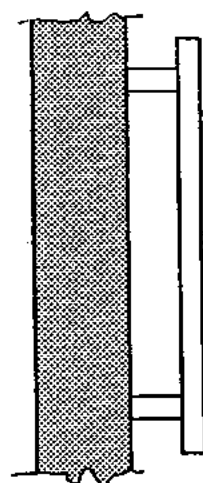
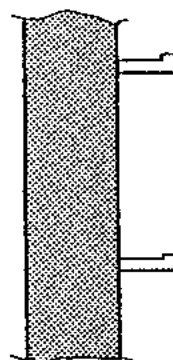
Sections can be stacked
to achieve overall height
desired

Rubber Encased Steel Steps

Most economical means
for providing manhole access

May be placed on
12" or 16" centers

Will not conduct electricity



Steel Ladders

Utilizes: 1/2" x 2" sidebars
7/8" diameter rung
16" step width

Anchorage: drop in inserts placed in concrete
Mounting brackets placed every 6 feet
Electro galvanized after fabrication

Vaughn
concrete products, inc.

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