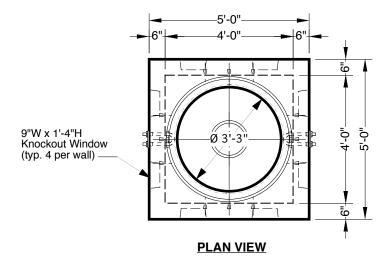


(800) 824-8351 (248) 887-4173 Fax: (248) 887-2755



9 3'-10 1/2" -..0-.8 7-0" 4'-1 1/2" 9 12"Ø x 3" Deep Sump Dish With 3/4"Ø Drain Plug

SECTION VIEW

All Concrete Shall Have A 28 Day Compressive Strength Of 4500 PSI.

Reinforcing Steel Shall Comply With ASTM A615 Grade 60 Rebar. Bar Bending And Placement Shall Comply With The Latest ACI Standards.

Standard Structural Design Based On AASHTO HS 20 Wheel Loading.

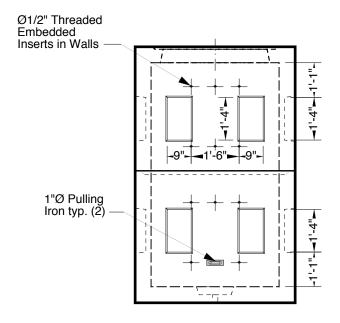
1" Ø Butyl Rubber Rope Mastic Is Provided For Placement Between Top And Bottom Sections Of Vault.

- Options -

Cast Iron, Heavy Duty Frame & Cover 6", 12", & 24" High Grade Adjustment Rings Hot-Dipped Galvanized Steel Ladder Hardware

Height Requirements To The Nearest Inch

Approximate Weight Total: ± 12,400 Lbs. Bottom Section: ± 6,500 Lbs. Top Section: ± 5,900 Lbs.

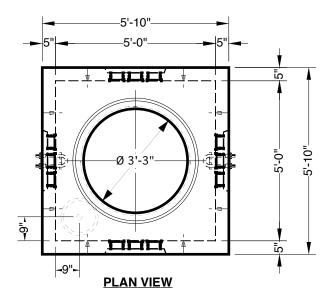


END VIEW





(800) 824-8351 (248) 887-4173 Fax: (248) 887-2755



All Concrete Shall Have A 28 Day Compressive Strength Of 4500 PSI.

Reinforcing Steel Shall Comply With ASTM A615 Grade 60 Rebar. Bar Bending And Placement Shall Comply With The Latest ACI Standards.

Standard Structural Design Based On AASHTO HS 20 Wheel Loading.

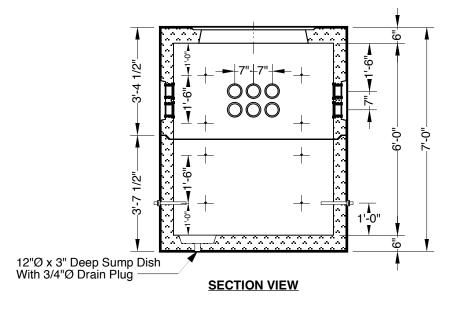
1" Ø Butyl Rubber Rope Mastic Is Provided For Placement Between Top And Bottom Sections Of Vault.

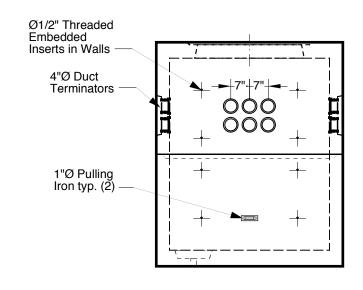
- Options -

Cast Iron, Heavy Duty Frame & Cover 6", 12", & 24" High Grade Adjustment Rings Hot-Dipped Galvanized Steel Ladder Hardware

8" Thick Walls For Extra Heavy Loading Conditions Height Requirements To The Nearest Inch

Approximate Weight Total: \pm 12,800 Lbs. Bottom Section: \pm 6,700 Lbs. Top Section: \pm 6,100 Lbs.

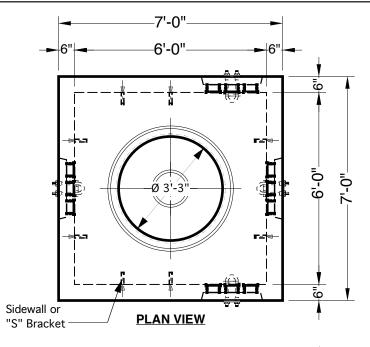




END VIEW



(800) 824-8351 (248) 887-4173 Fax: (248) 887-2755



All Concrete Shall Have A 28 Day Compressive Strength Of 4500 PSI.

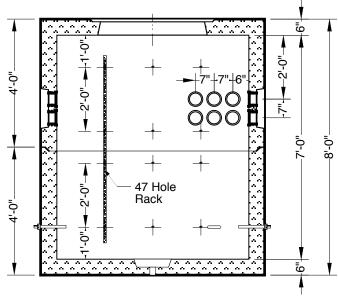
Reinforcing Steel Shall Comply With ASTM A615 Grade 60 Rebar. Bar Bending And Placement Shall Comply With The Latest ACI Standards.

Standard Structural Design Based On AASHTO HS-20 Wheel Loading.

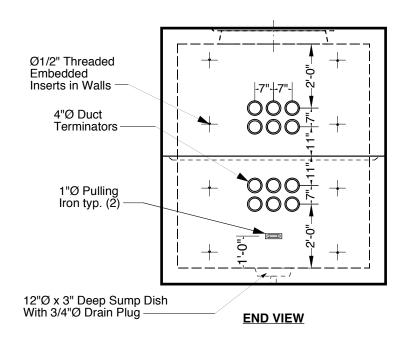
-Optional Galvanized Steel Hardware Package"S" Brackets 12
"B" Brackets 6
47 Hole Racks 8
1/2" X 13 X 1 1/4" Bolts 18
1/2" X 13 Nuts 18
1/2" X 13 X 1 3/4" Bolts 24
8'-O" Hooked Ladder 1

1" Ø Butyl Rubber Rope Mastic Is Provided For Placement Between Top And Bottom Sections Of Vault.

Approximate Weight Total: ±21,000 Lbs.
Bottom Section: ±10,500 Lbs. Top Section: ±10,500 Lbs.



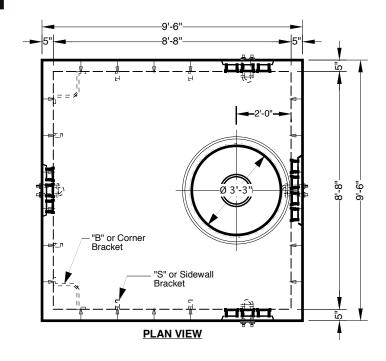
SECTION VIEW

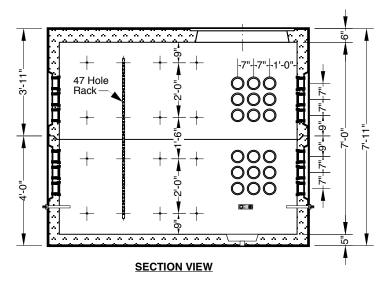






(800) 824-8351 (248) 887-4173 Fax: (248) 887-2755





All Concrete Shall Have A 28 Day Compressive Strength Of 4500 PSI.

Reinforcing Steel Shall Comply With ASTM A615 Grade 60 Rebar. Bar Bending And Placement Shall Comply With The Latest ACI Standards.

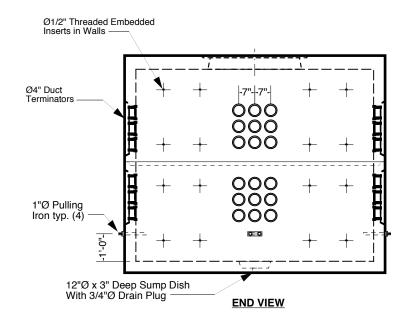
Standard Structural Design Based On AASHTO HS 20 Wheel Loading.

Optional Galvanized Steel Hardw	are Pac
"S" Brackets	24
"B" Brackets	8
47 Hole Racks	12
1/2" X 13 X 1 1/4" Bolts	32
1/2"X 13 Nuts	32
1/2" X 13 X 1 3/4" Bolts	64
8'-0" Hooked Ladder	1

1" Ø Butyl Rubber Rope Mastic Is Provided For Placement Between Top And Bottom Sections Of Vault.

> 6", 12", & 24" High Grade Adjustment Rings Available

Approximate Weight Total: ± 28,500 Lbs. Bottom Section: ± 14,500 Lbs. Top Section: ± 14,000 Lbs.



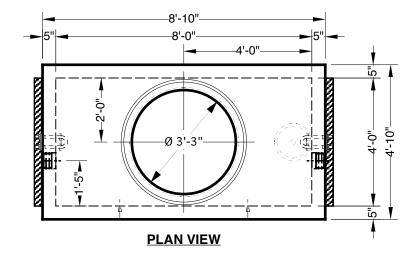


8' x 4' x 6' DTE Mini-Manhole (Jointhole)



Advance Concrete Products Company

(800) 824-8351 (248) 887-4173 Fax: (248) 887-2755



All Concrete Shall Have A 28 Day Compressive Strength Of 4500 PSI.

Reinforcing Steel Shall Comply With ASTM A615 Grade 60 Rebar. Bar Bending And Placement Shall Comply With The Latest ACI Standards.

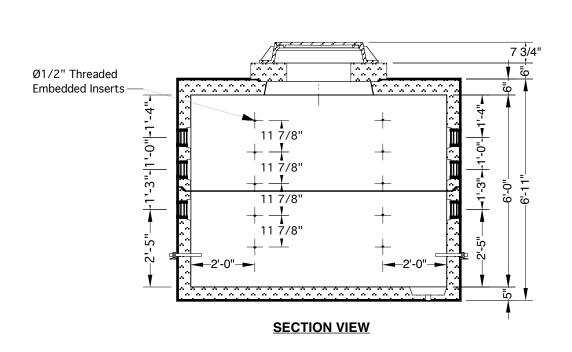
Standard Structural Design Based On AASHTO HS 20 Wheel Loading.

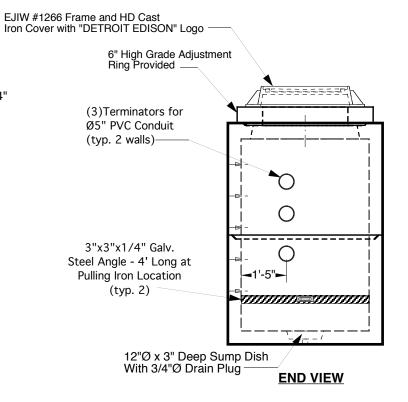
-Optional Hardware Package-(2) 33" Non-Metallic Vertical Racks (2) 22" Non-Metallic Vertical Racks (10) 1/2"-13 x 3 1/2" SS Bolts with Washers

1" Ø Butyl Rubber Rope Mastic Is Provided For Placement Between Top And Bottom Sections Of Vault.

> 6", 12", & 24" High Grade Adjustment Rings Available

Approximate Weight Total: \pm 15,000 Lbs. Bottom Section: \pm 7,500 Lbs. Top Section: \pm 7,500 Lbs.





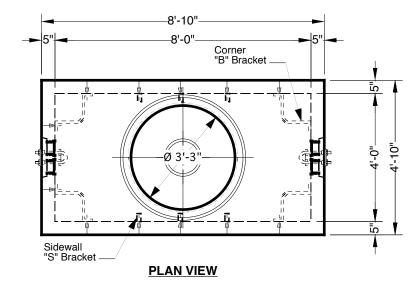


Embedded

Advance Concrete Products Company



(800) 824-8351 (248) 887-4173 Fax: (248) 887-2755



All Concrete Shall Have A 28 Day Compressive Strength Of 4500 PSI.

Reinforcing Steel Shall Comply With ASTM A615 Grade 60 Rebar. Bar Bending And Placement Shall Comply With The Latest ACI Standards.

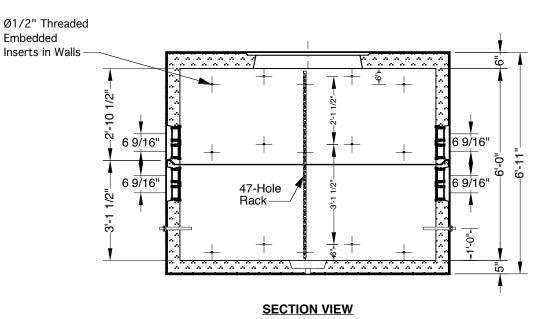
Standard Structural Design Based On AASHTO HS 20 Wheel Loading.

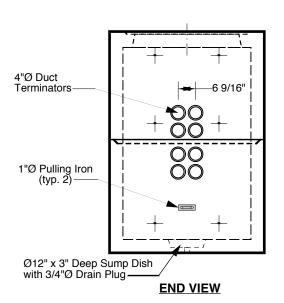
 Optional Galvanized Steel Hardwar 	e Package-
"S" Brackets	12
"B" Brackets	12
47 Hole Racks	10
1/2" X 13 X 1 1/4" Bolts	24
1/2"X 13 Nuts	24
1/2" X 13 X 1 3/4" Bolts	30
7'-0" Hooked Ladder	1

1" Ø Butyl Rubber Rope Mastic Is Provided For Placement Between Top And Bottom Sections Of Vault.

> 6", 12", & 24" High Grade Adjustment Rings Available

Approximate Weight Total: ± 15,000 Lbs. Bottom Section: ± 7,500 Lbs. Top Section: ± 7,500 Lbs.

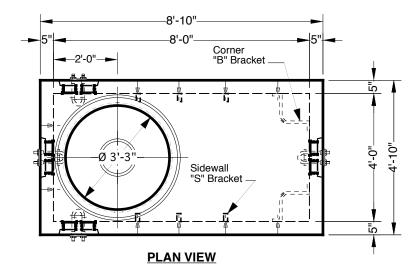








(800) 824-8351 (248) 887-4173 Fax: (248) 887-2755



All Concrete Shall Have A 28 Day Compressive Strength Of 4500 PSI.

Reinforcing Steel Shall Comply With ASTM A615 Grade 60 Rebar.
Bar Bending And Placement Shall Comply With The Latest ACI Standards.

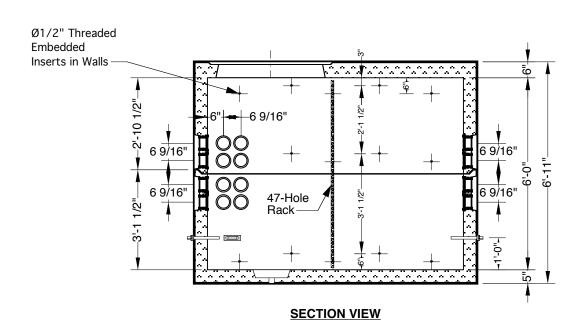
Standard Structural Design Based On AASHTO HS 20 Wheel Loading.

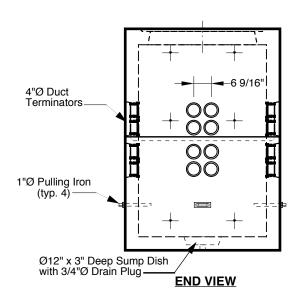
-Optional Galvanized Steel Hardwai	re Package-
"S" Brackets	12
"B" Brackets	6
47 Hole Racks	8
1/2" X 13 X 1 1/4" Bolts	18
1/2"X 13 Nuts	18
1/2" X 13 X 1 3/4" Bolts	24
7'-0" Hooked Ladder	1

1" Ø Butyl Rubber Rope Mastic Is Provided For Placement Between Top And Bottom Sections Of Vault.

> 6", 12", & 24" High Grade Adjustment Rings Available

Approximate Weight Total: \pm 15,000 Lbs. Bottom Section: \pm 7,500 Lbs. Top Section: \pm 7,500 Lbs.



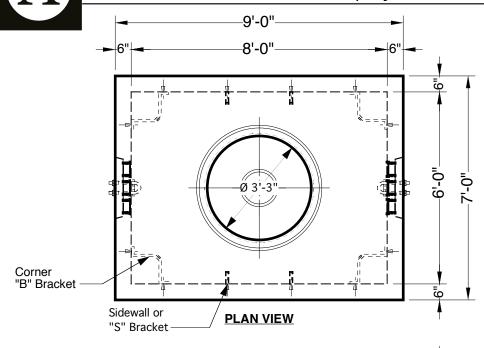


8' x 6' x 7' Type A Manhole



Advance Concrete Products Company

(800) 824-8351 (248) 887-4173 Fax: (248) 887-2755



All Concrete Shall Have A 28 Day Compressive Strength Of 4500 PSI.

Reinforcing Steel Shall Comply With ASTM A615 Grade 60 Rebar. Bar Bending And Placement Shall Comply With The Latest ACI Standards.

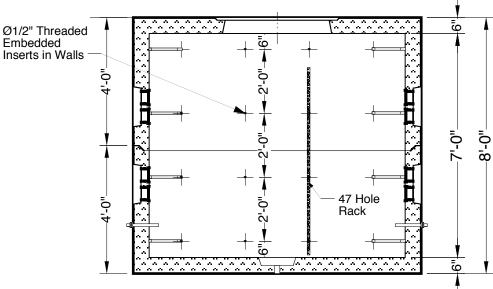
Standard Structural Design Based On AASHTO HS-20 Wheel Loading.

-Optional Galvanized Steel Hardware Package"S" Brackets 16
"B" Brackets 16
47 Hole Racks 8
1/2" X 13 X 1 1/4" Bolts 24
1/2" X 13 Nuts 24
1/2" X 13 X 1 3/4" Bolts 48
8-0" Hooked Ladder 1

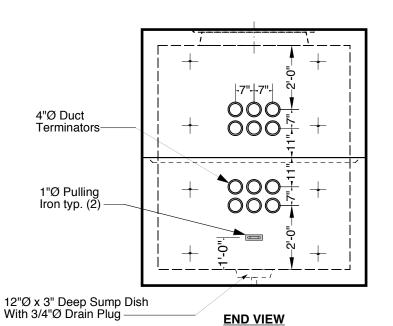
1" Ø Butyl Rubber Rope Mastic Is Provided For Placement Between Top And Bottom Sections Of Vault.

> 6", 12", & 24" High Grade Adjustment Rings Available

Approximate Weight Total: ±24,800 Lbs.
Bottom Section: ±12,700 Lbs. Top Section: ±12,100 Lbs.



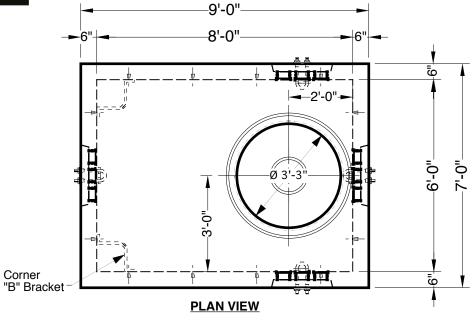
SECTION VIEW







(800) 824-8351 (248) 887-4173 Fax: (248) 887-2755



All Concrete Shall Have A 28 Day Compressive Strength Of 4500 PSI.

Reinforcing Steel Shall Comply With ASTM A615 Grade 60 Rebar. Bar Bending And Placement Shall Comply With The Latest ACI Standards.

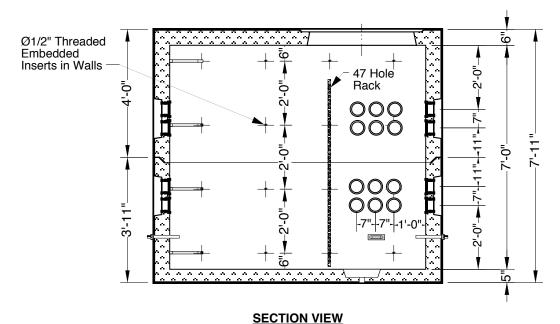
Standard Structural Design Based On AASHTO HS-20 Wheel Loading.

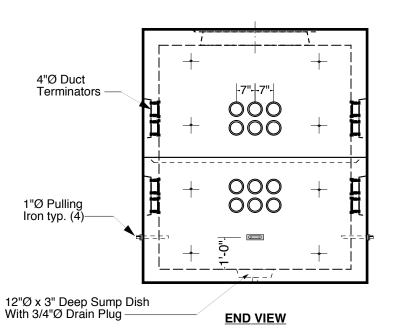
tional Galvanized Steel Hardw	are Pac
"S" Brackets	12
"B" Brackets	16
47 Hole Racks	6
1/2" X 13 X 1 1/4" Bolts	24
1/2" X 13 Nuts	24
1/2" X 13 X 1 3/4" Bolts	36
8'-0" Hooked Ladder	1

1" Ø Butyl Rubber Rope Mastic Is Provided For Placement Between Top And Bottom Sections Of Vault.

> 6", 12", & 24" High Grade Adjustment Rings Available

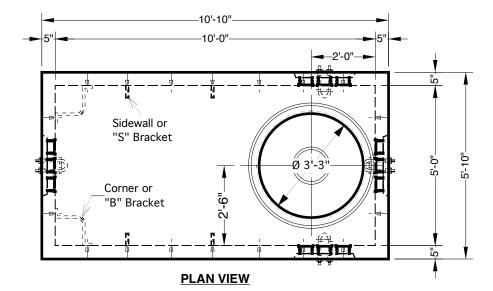
Approximate Weight Total: ±24,800 Lbs.
Bottom Section: ±12,700 Lbs. Top Section: ±12,100 Lbs.

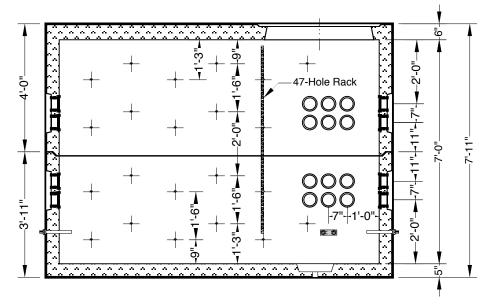






(800) 824-8351 (248) 887-4173 Fax: (248) 887-2755





All Concrete Shall Have A 28 Day Compressive Strength Of 4500 PSI.

Reinforcing Steel Shall Comply With ASTM A615 Grade 60 Rebar. Bar Bending And Placement Shall Comply With The Latest ACI Standards.

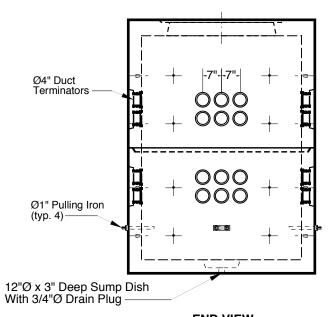
Standard Structural Design Based On AASHTO HS-20 Wheel Loading.

Optional Galvanized Steel Hardward	e Packag
"S" Brackets	24
"B" Brackets	8
47 Hole Racks	12
1/2" X 13 X 1 1/4" Bolts	64
1/2"X 13 Nuts	64
1/2" X 13 X 1 3/4" Bolts	32
8'-0" Hooked Ladder	1

1" Ø Butyl Rubber Rope Mastic Is Provided For Placement Between Top And Bottom Sections Of Vault.

> 6", 12", & 24" High Grade Adjustment Rings Available

Approximate Weight Total: \pm 22,000 Lbs. Bottom Section: \pm 11,000 Lbs. Top Section: \pm 11,000 Lbs.

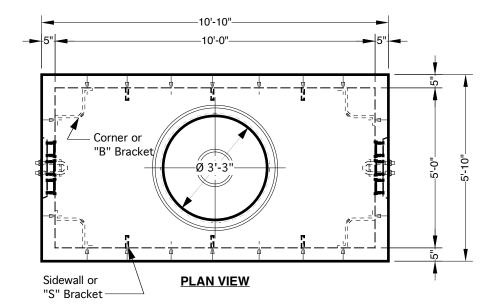


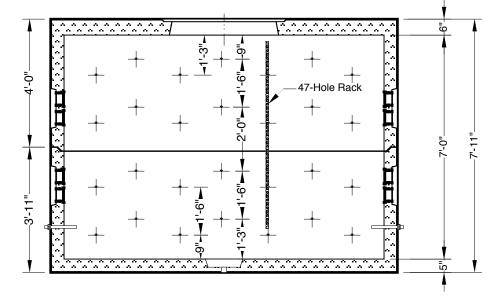
SECTION VIEW

END VIEW



(800) 824-8351 (248) 887-4173 Fax: (248) 887-2755





SECTION VIEW

All Concrete Shall Have A 28 Day Compressive Strength Of 4500 PSI.

Reinforcing Steel Shall Comply With ASTM A615 Grade 60 Rebar. Bar Bending And Placement Shall Comply With The Latest ACI Standards.

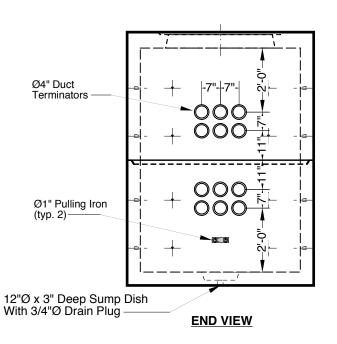
Standard Structural Design Based On AASHTO HS 20 Wheel Loading.

Optional Galvanized Steel Hardward	e Pack
"S" Brackets	16
"B" Brackets	16
47 Hole Racks	8
1/2" X 13 X 1 1/4" Bolts	24
1/2"X 13 Nuts	24
1/2" X 13 X 1 3/4" Bolts	48
8'-0" Hooked Ladder	1

1" Ø Butyl Rubber Rope Mastic Is Provided For Placement Between Top And Bottom Sections Of Vault.

> 6", 12", & 24" High Grade Adjustment Rings Available

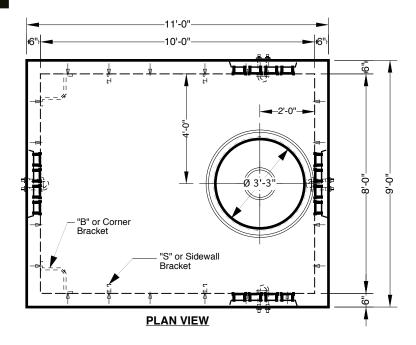
Approximate Weight Total: ± 22,000 Lbs.
Bottom Section: ± 11,000 Lbs. Top Section: ± 11,000 Lbs.







(800) 824-8351 (248) 887-4173 Fax: (248) 887-2755



All Concrete Shall Have A 28 Day Compressive Strength Of 4500 PSI.

Reinforcing Steel Shall Comply With ASTM A615 Grade 60 Rebar. Bar Bending And Placement Shall Comply With The Latest ACI Standards.

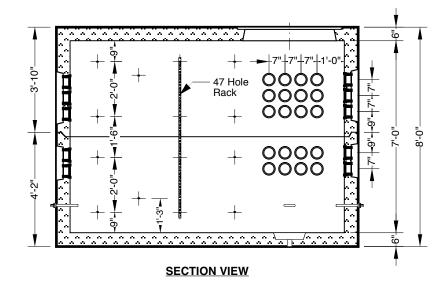
Standard Structural Design Based On AASHTO HS 20 Wheel Loading.

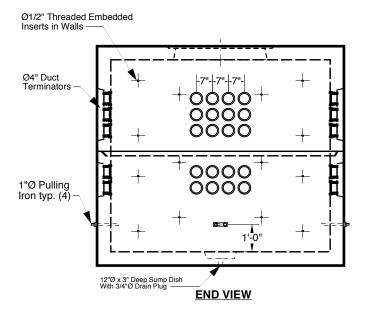
Optional Galvanized Steel Hardv	vare Package
"S" Brackets	24
"B" Brackets	8
47 Hole Racks	12
1/2" X 13 X 1 1/4" Bolts	32
1/2"X 13 Nuts	32
1/2" X 13 X 1 3/4" Bolts	64
8'-0" Hooked Ladder	1

1" Ø Butyl Rubber Rope Mastic Is Provided For Placement Between Top And Bottom Sections Of Vault.

> 6", 12", & 24" High Grade Adjustment Rings Available

Approximate Weight Total: ± 34,700 Lbs. Bottom Section: ± 17,700 Lbs. Top Section: ± 17,000 Lbs.





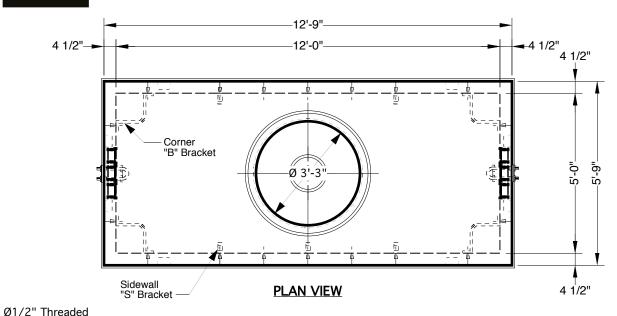


12' x 5' x 6'-6" Type A Manhole



Advance Concrete Products Company

(800) 824-8351 (248) 887-4173 Fax: (248) 887-2755



All Concrete Shall Have A 28 Day Compressive Strength Of 4500 PSI.

Reinforcing Steel Shall Comply With ASTM A615 Grade 60 Rebar. Bar Bending And Placement Shall Comply With The Latest ACI Standards.

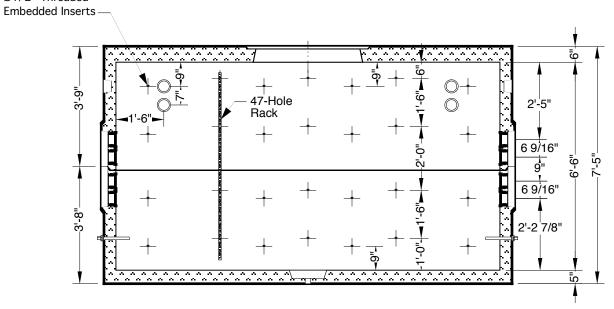
Standard Structural Design Based On AASHTO HS 20 Wheel Loading.

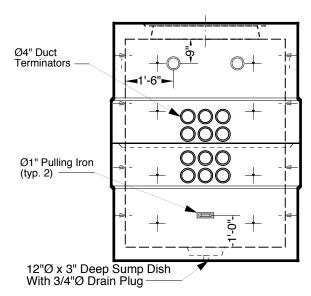
ptional Galvanized Steel Hardwar	e Packag
"S" Brackets	24
"B" Brackets	16
47 Hole Racks	14
1/2" X 13 X 1 1/4" Bolts	40
1/2"X 13 Nuts	40
1/2" X 13 X 1 3/4" Bolts	72
8'-0" Hooked Ladder	1

1" Ø Butyl Rubber Rope Mastic Is Provided For Placement Between Top And Bottom Sections Of Vault.

> 6", 12", & 24" High Grade Adjustment Rings Available

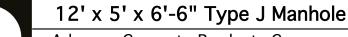
Approximate Weight Total: \pm 25,000 Lbs. Bottom Section: \pm 12,500 Lbs. Top Section: \pm 12,500 Lbs.





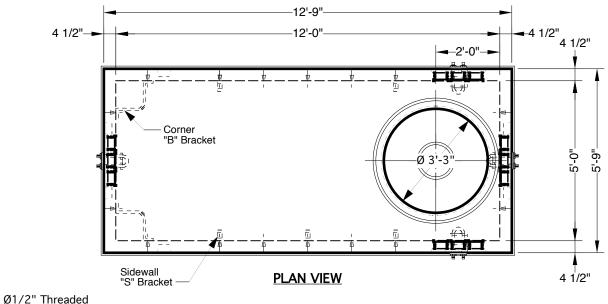
RIGHT END VIEW

SECTION VIEW





Advance Concrete Products Company (800) 824-8351 (248) 887-4173 Fax: (248) 887-2755



All Concrete Shall Have A 28 Day Compressive Strength Of 4500 PSI.

Reinforcing Steel Shall Comply With ASTM A615 Grade 60 Rebar. Bar Bending And Placement Shall Comply With The Latest ACI Standards.

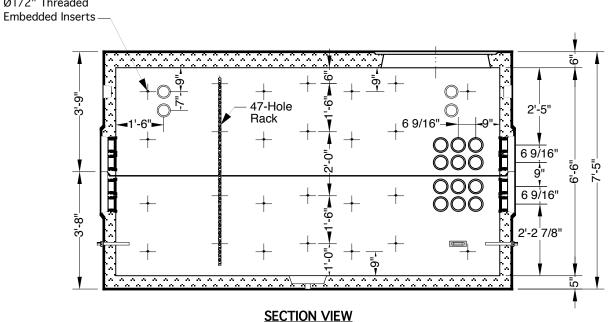
Standard Structural Design Based On AASHTO HS 20 Wheel Loading.

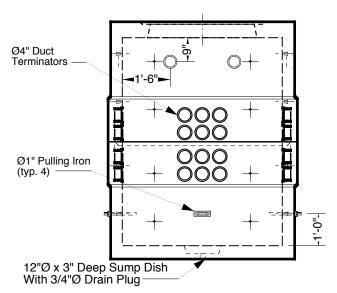
Optional Galvanized Steel Hardwa	re Package
"S" Brackets	24
"B" Brackets	8
47 Hole Racks	14
1/2" X 13 X 1 1/4" Bolts	32
1/2"X 13 Nuts	32
1/2" X 13 X 1 3/4" Bolts	56
8'-0" Hooked Ladder	1

1" Ø Butyl Rubber Rope Mastic Is Provided For Placement Between Top And Bottom Sections Of Vault.

> 6", 12", & 24" High Grade Adjustment Rings Available

Approximate Weight Total: \pm 25,000 Lbs. Bottom Section: \pm 12,500 Lbs. Top Section: \pm 12,500 Lbs.





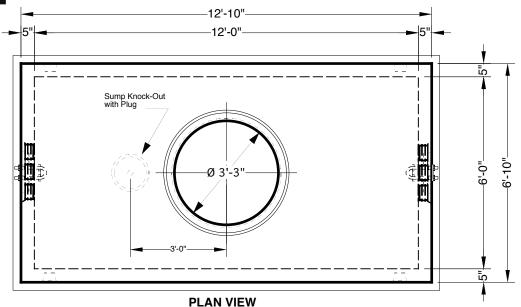
RIGHT END VIEW







(800) 824-8351 (248) 887-4173 Fax: (248) 887-2755



All Concrete Shall Have A 28 Day Compressive Strength Of 4500 PSI.

Reinforcing Steel Shall Comply With ASTM A615 Grade 60 Rebar. Bar Bending And Placement Shall Comply With The Latest ACI Standards.

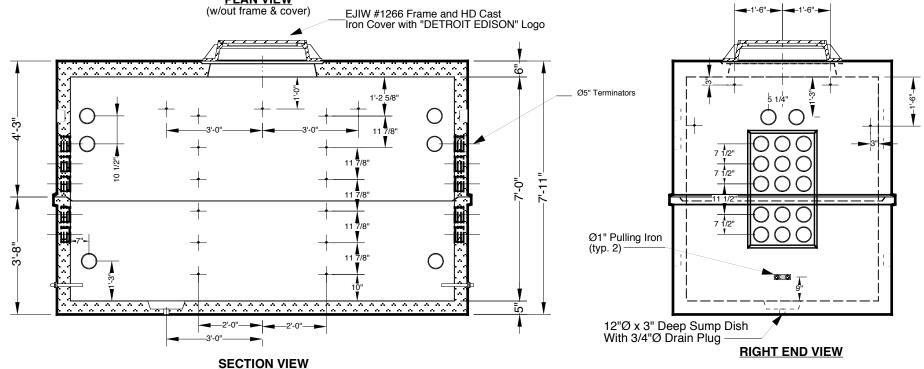
Standard Structural Design Based On AASHTO HS 20 Wheel Loading.

-Hardware Provided-33" Vertical Racks 8'-0" Hooked Ladder 1/2"-13" x 3 1/2" SS Bolts 24

1" Ø Butyl Rubber Rope Mastic Is Provided For Placement Between Top And Bottom Sections Of Vault.

> 6", 12", & 24" High Grade Adjustment Rings Available

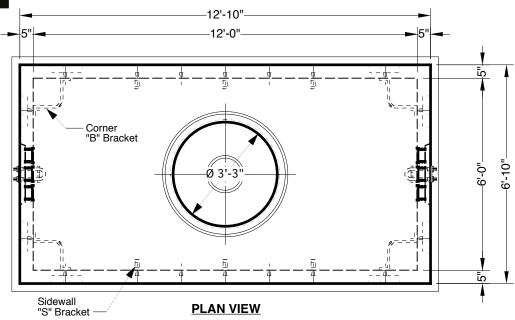
Approximate Weight Total: ± 28,500 Lbs.
Bottom Section: ± 14,250 Lbs. Top Section: ± 14,250 Lbs.







(800) 824-8351 (248) 887-4173 Fax: (248) 887-2755



All Concrete Shall Have A 28 Day Compressive Strength Of 4500 PSI.

Reinforcing Steel Shall Comply With ASTM A615 Grade 60 Rebar. Bar Bending And Placement Shall Comply With The Latest ACI Standards.

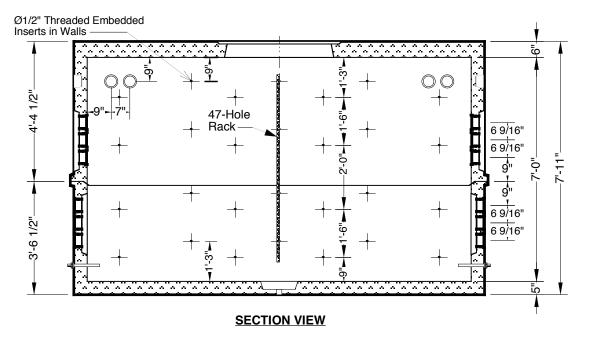
Standard Structural Design Based On AASHTO HS 20 Wheel Loading.

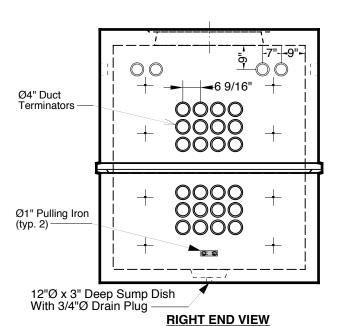
-Optional Galvanized Steel Hardwa	are Pack
"S" Brackets	24
"B" Brackets	16
47 Hole Racks	14
1/2" X 13 X 1 1/4" Bolts	40
1/2"X 13 Nuts	40
1/2" X 13 X 1 3/4" Bolts	72
8'-0" Hooked Ladder	1

1" Ø Butyl Rubber Rope Mastic Is Provided For Placement Between Top And Bottom Sections Of Vault.

> 6", 12", & 24" High Grade Adjustment Rings Available

Approximate Weight Total: ± 28,500 Lbs.
Bottom Section: ± 14,250 Lbs. Top Section: ± 14,250 Lbs.

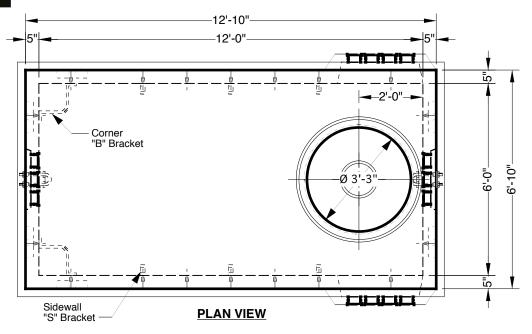








(800) 824-8351 (248) 887-4173 Fax: (248) 887-2755



All Concrete Shall Have A 28 Day Compressive Strength Of 4500 PSI.

Reinforcing Steel Shall Comply With ASTM A615 Grade 60 Rebar. Bar Bending And Placement Shall Comply With The Latest ACI Standards.

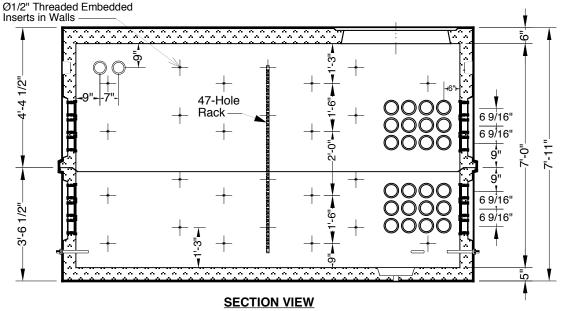
Standard Structural Design Based On AASHTO HS 20 Wheel Loading.

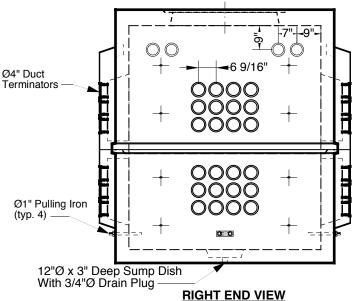
-Optional Galvanized Steel Hardware Package"S" Brackets 24
"B" Brackets 8
47 Hole Racks 12
1/2" X 13 X 1 1/4" Bolts 64
1/2"X 13 Nuts 64
1/2"X 13 X 1 3/4" Bolts 32
8-0" Hooked Ladder 1

1" Ø Butyl Rubber Rope Mastic Is Provided For Placement Between Top And Bottom Sections Of Vault.

> 6", 12", & 24" High Grade Adjustment Rings Available

Approximate Weight Total: ± 28,500 Lbs.
Bottom Section: ± 14,250 Lbs. Top Section: ± 14,250 Lbs.









(800) 824-8351 (248) 887-4173 Fax: (248) 887-2755

All Concrete Shall Have A 28 Day Compressive Strength Of 5000 PSI.

Reinforcing Steel Shall Comply With ASTM A615 Grade 60 Rebar. Bar Bending And Placement Shall Comply With The Latest ACI Standards.

Standard Structural Design Based On AASHTO HS 20 Wheel Loading.



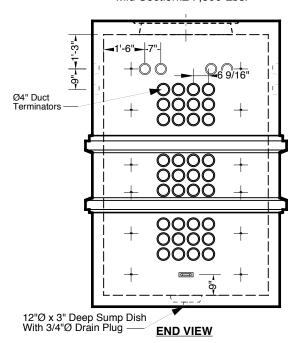
1" Ø Butyl Rubber Rope Mastic Is Provided For Placement Between Top And Bottom Sections Of Vault.

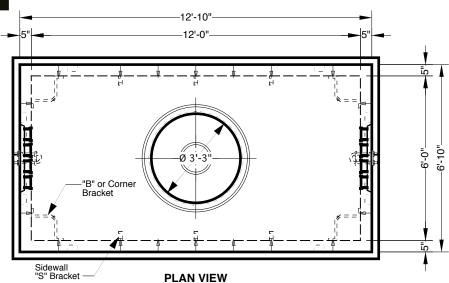
> 6", 12", & 24" High Grade Adjustment Rings Available

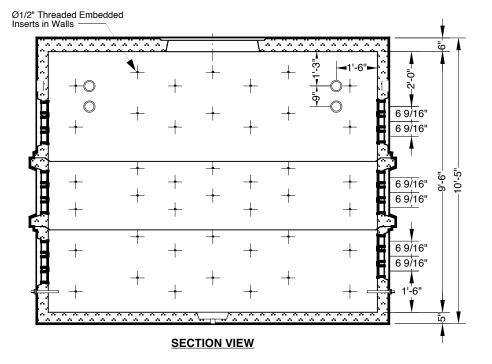
Approximate Weight Total: ± 35,500 Lbs.

Bottom Section: ± 14,000 Lbs. Top Section: ± 14,000 Lbs.

Mid Section: ± 7,500 Lbs.







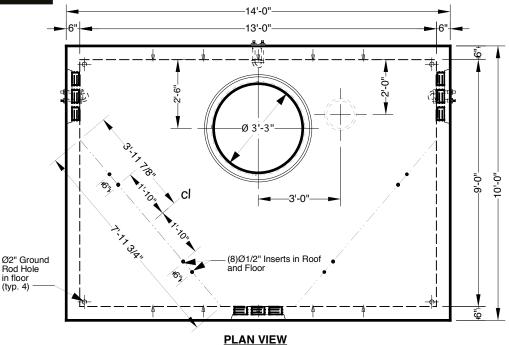


in floor (typ. 4)

Advance Concrete Products Company



(800) 824-8351 (248) 887-4173 Fax: (248) 887-2755



All Concrete Shall Have A 28 Day Compressive Strength Of 5000 PSI.

Reinforcing Steel Shall Comply With ASTM A615 Grade 60 Rebar. Bar Bending And Placement Shall Comply With The Latest ACI Standards.

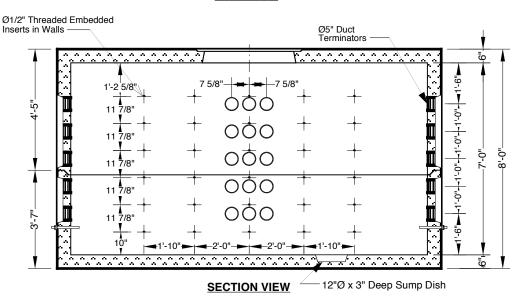
Standard Structural Design Based On AASHTO HS 20 Wheel Loading.

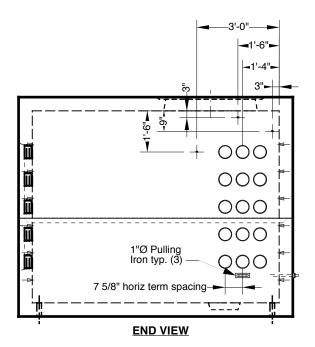
Hot-dipped Galvanized Steel Hardware Non-metallic Hardware Available

1" Ø Butyl Rubber Rope Mastic Is Provided For Placement Between Top And Bottom Sections Of Vault.

> 6", 12", & 24" High Grade Adjustment Rings Available

Approximate Weight Total: $\pm 45,000$ Lbs. Bottom Section: $\pm 21,400$ Lbs. Top Section: $\pm 23,600$ Lbs.



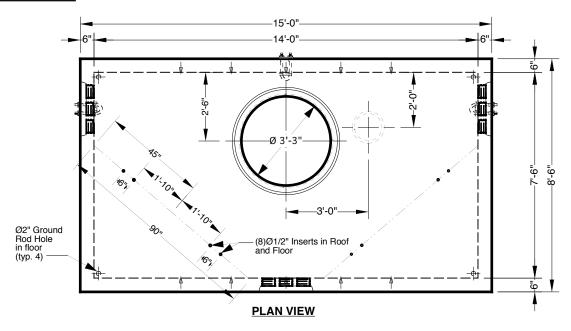








(800) 824-8351 (248) 887-4173 Fax: (248) 887-2755



All Concrete Shall Have A 28 Day Compressive Strength Of 5000 PSI.

Reinforcing Steel Shall Comply With ASTM A615 Grade 60 Rebar. Bar Bending And Placement Shall Comply With The Latest ACI Standards.

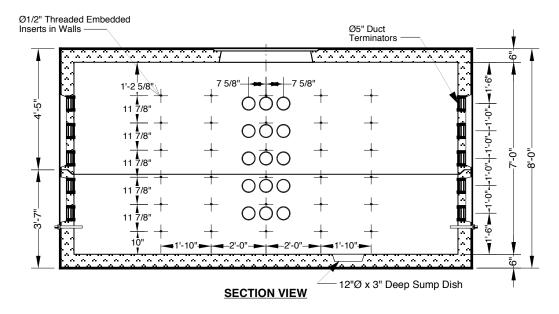
Standard Structural Design Based On AASHTO HS 20 Wheel Loading.

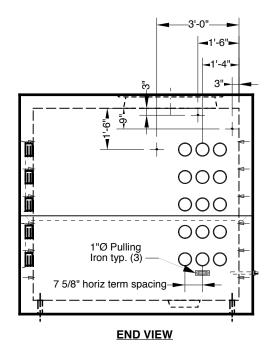
Hot-dipped Galvanized Steel Hardware Or Non-metallic Hardware Available

1" Ø Butyl Rubber Rope Mastic Is Provided For Placement Between Top And Bottom Sections Of Vault.

> 6", 12", & 24" High Grade Adjustment Rings Available

Approximate Weight Total: \pm 42,800 Lbs. Bottom Section: \pm 20,150 Lbs. Top Section: \pm 22,650 Lbs.





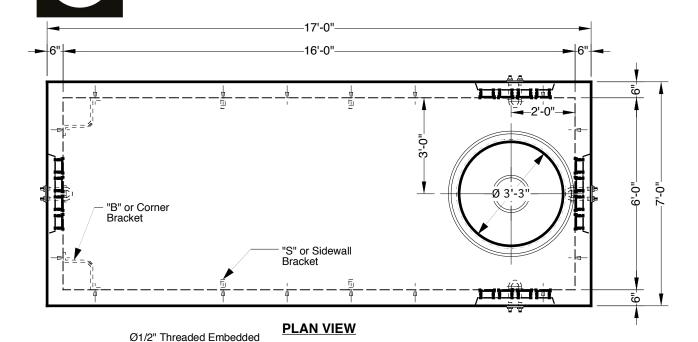


16' x 6' x 7' Type J Manhole



Advance Concrete Products Company

(800) 824-8351 (248) 887-4173 Fax: (248) 887-2755



All Concrete Shall Have A 28 Day Compressive Strength Of 4500 PSI.

Reinforcing Steel Shall Comply With ASTM A615 Grade 60 Rebar. Bar Bending And Placement Shall Comply With The Latest ACI Standards.

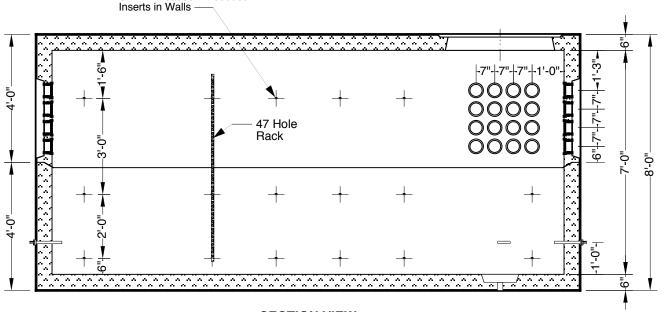
Standard Structural Design Based On AASHTO HS 20 Wheel Loading.

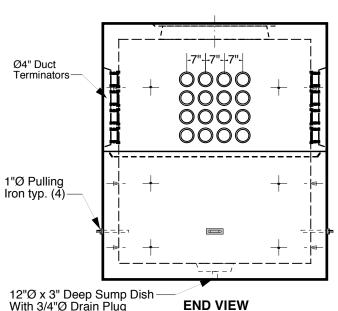
-Optional Galvanized Steel Hardware Package"S" Brackets 24
"B" Brackets 8
47 Hole Racks 12
1/2" X 13 X 1 1/4" Bolts 40
1/2" X 13 Nuts 40
1/2" X 13 X 1 3/4" Bolts 64
8-0" Hooked Ladder 1

1" Ø Butyl Rubber Rope Mastic Is Provided For Placement Between Top And Bottom Sections Of Vault.

> 6", 12", & 24" High Grade Adjustment Rings Available

Approximate Weight Total: ±41,900 Lbs.
Bottom Section: ±21,200 Lbs. Top Section: ±20,700 Lbs.





SECTION VIEW