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 AASHO 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.

Ø1/2" Threaded Embedded Inserts in Walls

1"Ø Pulling Iron typ. (2)

12"Ø x 3" Deep Sump Dish With 3/4"Ø Drain Plug

PLAN VIEW

SECTION VIEW

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

Approximate Weight
Total: ± 12,800 Lbs.
Bottom Section: ± 6,700 Lbs. Top Section: ± 6,100 Lbs.
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'-0" 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.
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 32
  1/2"X13 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

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

EJW #1266 Frame and HD Cast
Iron Cover with "DETROIT EDISON" Logo

6" High Grade Adjustment
Ring Provided

(3) Terminators for
Ø5" PVC Conduit
(typ. 2 walls)

3"x3"x1/4" Galv.
Steel Angle - 4' Long at
Pulling Iron Location
(typ. 2)

12"Ø x 3" Deep Sump Dish
With 3/4"Ø Drain Plug

Ø1/2" Threaded
Embedded Inserts
8' x 4' x 6' Type SA Manhole

All Concrete Shall Have A 28 Day Compressive Strength Of 4500 PSL.
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
- "B" Brackets
- 47 Hole Racks
- 1/2" X 13 X 1 1/4" Bolts
- 1/2" X 13 Nuts
- 1/2" X 13 X 1 3/4" Bolts
- 7'-0" Hooked Ladder

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.

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8' x 4' x 6' Type SJ Manhole

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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
  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.

Ø1/2" Threaded Embedded Inserts in Walls

PLAN VIEW

SECTION VIEW

END VIEW
8' x 6' x 7' Type A Manhole

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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.

PLAN VIEW

SECTION VIEW

END VIEW
8' x 6' x 7' Type J Manhole

Advance Concrete Products Company

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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  10
  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.
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PLAN VIEW

SECTION VIEW

END VIEW
10' x 5' x 7' Type J Manhole

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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: ± 22,000 Lbs.
Bottom Section: ± 11,000 Lbs. Top Section: ± 11,000 Lbs.
10' x 5' x 7' Type A Manhole

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

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: ± 22,000 Lbs.
Bottom Section: ± 11,000 Lbs. Top Section: ± 11,000 Lbs.

12"Ø x 3" Deep Sump Dish
With 3/4"Ø Drain Plug
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 32
  1/2"X13 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

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 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: ± 25,000 Lbs.
Bottom Section: ± 12,500 Lbs. Top Section: ± 12,500 Lbs.
12' x 5' x 6'-6" Type J Manhole
Advance Concrete Products Company

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  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: ± 25,000 Lbs.
Bottom Section: ± 12,500 Lbs. Top Section: ± 12,500 Lbs.
12' x 6' x 7' Two-Way Manhole

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Sump Knock-Out with Plug

PLAN VIEW
(w/out frame & cover)

EJW #1266 Frame and HD Cast Iron Cover with "DETROIT EDISON" Logo

SECTION VIEW

12"Ø x 3" Deep Sump Dish
With 3/4"Ø Drain Plug

RIGHT END 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.

Hardware Provided:
33" Vertical Racks  8
8'-0" Hooked Ladder  1
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.
12' x 6' x 7' Type A-1 Manhole

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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 15
  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"-9" Hooked Ladder 1

1" O 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.

Ω1/2" Threaded Embedded Inserts in Walls

Ω4" Duct Terminators

Ω1" Pulling Iron (typ. 2)

12"Ω x 3" Deep Sump Dish
With 3/4"Ω Drain Plug

PLAN VIEW

SECTION VIEW

RIGHT END VIEW
12' x 6' x 7' Type J3-1 Manhole

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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.
12' x 6' x 9'-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 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.

- Optional Galvanized Steel Hardware Package -
  "S" Brackets 36
  "B" Brackets 24
  47 Hole Racks 14
  18 Hole Racks 14
  1/2" X 13 X 1 1/4" Bolts 60
  1/2" X 13 Nuts 60
  1/2" X 13 X 1 3/4" Bolts 100
  11'-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: ± 35,500 Lbs.
Bottom Section: ± 14,000 Lbs. Top Section: ± 14,000 Lbs.
Mid Section: ± 7,500 Lbs.
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: ± 45,000 Lbs.
Bottom Section: ± 21,400 Lbs. Top Section: ± 23,600 Lbs.
14' x 7-6" x 7' Three-Way Manhole

Advance Concrete Products Company

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

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: ± 42,800 Lbs.
Bottom Section: ± 20,150 Lbs. Top Section: ± 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 1/4" Bolts 40
1/2"X13 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.