Heavy Duty (H.D.) frame & cover E.J. #2860 or approved equal.

2 1/2" threaded inserts

30"  

39 1/2"  

30 3/4" dia.  

1 1/2"  

B"  

Prefabricated handhole wire mesh reinforced.

Knock-outs (12") as required (see plans).

NOTE: Logo imprinted on lid shall read "MDOT Traffic Signal"

2' PRECAST ROUND HANDHOLE WITH FLOOR

 Crushed stone

 NOTE: Logo imprinted on lid shall read "MDOT Traffic Signal"

2' PRECAST ROUND HANDHOLE WITH FLOOR

 Crushed stone

5" dia. drain hole

Crushed stone

TYPICAL CONDUIT ENTRANCE AT HANDHOLE

Handhole wall

Bell end

P.V.C. CONDUIT

Non-shrink grout seal

MDOT

PREPARED BY
TRAFFIC AND SAFETY

ENGINEER OF DELIVERY

ENGINEER OF DEVELOPMENT

MICHIGAN DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS DELIVERY STANDARD PLAN FOR

HANDHOLE - PRECAST,
POLYMER CONCRETE

SIG-240-A SHEET

1 of 6
The H. D. frame and cover shall be manufactured by [East Jordan Iron Works, Model 1220 or approved equal].

NOTE:
Logo imprint may read "Traffic Signal" for non-MDOT Installation.

36' PRECAST ROUND HANDHOLE
SECTION DETAIL

Crushed stone
6" dia drain hole

3' DIAMETER ROUND PRECAST CONCRETE HANDHOLE

NOT TO SCALE
NOTE:
Logo imprint may read "Traffic Signal" for non MDOT installations.

NOTES PERTAIN TO PRECAST OR BRICK:
1) The material and workmanship shall be in accordance with the current M.D.O.T. Standard Specifications for Construction.
2) All concrete masonry shall be grade 30M.
3) The inner surface of the handhole shall be smooth.
4) Heavy Duty covers shall be castings which meet the requirements of the current specifications for gray iron castings ASTM designation A48 and shall have a minimum strength as provided for Class No. 30 gray iron castings.
5) All castings shall be cleaned by sand blasting.
6) The seating face of the cover and the seat for the same on the frame if required, shall be ground or machined so that the cover shall have an even bearing on its seat to prevent rocking or tilting.
7) The castings shall be free of pouring faults, blow holes, cracks, and other imperfections. They shall be sound, true to form and thickness, clean and neatly finished and shall be coated with tar and pitch varnish.
8) Light Duty cover shall be bolted to frame with not less than 2 countersunk Hex head bronze bolts.
9) The Heavy Duty cover & frame shall be East Jordan Iron Works #8206 Neenah Foundry, #R-6662-HP for square cover or East Jordan Iron Works #2860 Type "A", Neenah Foundry #R-6052 D for circular cover or an approved equal.
10) Handhole shall be equipped with cable rack and hooks to train cable.

NOT TO SCALE
NOTE:
Galvanized step is standard with grade ring ASTM C478.

Dimensions

<table>
<thead>
<tr>
<th>Δ</th>
<th>Min Wt. (Ibs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>440</td>
</tr>
<tr>
<td>9</td>
<td>650</td>
</tr>
<tr>
<td>12</td>
<td>860</td>
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</tbody>
</table>

GRADE RING WITH 39" I.D. &
46 1/2" RECESS

<table>
<thead>
<tr>
<th>Min Thickness</th>
<th>Min Weight lbs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wall</td>
<td>Top 3300</td>
</tr>
<tr>
<td>Roof</td>
<td>Bottom 3850</td>
</tr>
<tr>
<td>Floor</td>
<td>Total 7150</td>
</tr>
</tbody>
</table>

4' x 4' x 4' PRECAST CONCRETE HANDHOLE

NOT TO SCALE
NOTE:
Logo imprint it on cover shall read "MDOT Traffic Signal" for MDOT installations.

Frame E.J. #122042
or approved equal gray iron (ASTM A48CL35)

3/4" letters
recessed flush

(1) Open pickhole

3 1/2" dia

2 11/16"

(2) 3/4" dia holes
13 1/2" apart

7 7/8"

1 1/8"

29 1/2" dia

31 5/8" dia

45" dia

7/8" Handling hole

MANHOLE FRAME
(HEAVY DUTY)
Estimated weight 410 lbs

NOTE:
Machined surface

COVER SECTION
MANHOLE COVER
(HEAVY DUTY)
Estimated weight 245 lbs

NOTE:
Machined surface

BOTTOM VIEW OF COVER

4' x 4' x 4' PRECAST CONCRETE HANDHOLE
Concrete: 4500 p.s.i. @ 28 days
Reinforcement: Grade 60 rebar
All bars are #4

PLAN VIEW
With out frame & cover

SECTION VIEW
Typ. reinforcement all walls

2' x 2' SQUARE x 3' HANDHOLE
For use on Oakland County roads only.