## 1458 MANHOLES

### CONTAINS

<table>
<thead>
<tr>
<th>Number</th>
<th>Description</th>
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<tbody>
<tr>
<td>1458-06A</td>
<td>MH 6FT X 12FT - 2 FT MAX BURIAL DEPTH</td>
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<tr>
<td>1458-06B</td>
<td>MH 6FT X 12FT - 2 FT MAX BURIAL DEPTH</td>
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<tr>
<td>1458-07A</td>
<td>MH 6FT X 12FT W/CS - 2 FT MAX BURIAL DEPTH</td>
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<td>1458-13B</td>
<td>MH 12FT X 12FT W/CS - 2 FT MAX BURIAL DEPTH</td>
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<tr>
<td>1458-18A</td>
<td>MH 6FT X 12FT - 5FT MAX BURIAL DEPTH</td>
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NOTE:
1. INSTALL 60'-70' OF 4/0 TINNED BARE CU WIRE MAKING 3 COILS IN BOTTOM OF EXCAVATION. BRING WIRE THROUGH A HOLE DRILLED AT OPPOSITE ENDS OF MANHOLE WITH 3'+/-2" LEFT IN MANHOLE AT ONE END. EXTEND ONE END ABOVE GRADE.
2. MAKE 3 COILS OF 4/0 TINNED BARE CU WIRE UNDER BOTTOM OF MANHOLE.
3. MANHOLE NECK SHALL BE A MAXIMUM OF 30" TALL.
NOTES:
1. MIN. EXCAVATION SIZE: 8'-10"x14'-10"x DEPTH REQ'D.
2. DESIGNED FOR H-20 BRIDGE LOADING.
3. INSTALL 60'-70' OF 4/0 TINNED BARE CU WIRE MAKING 3 COILS IN BOTTOM OF
   EXCAVATION. BRING WIRE THROUGH A HOLE DRILLED AT OPPOSITE ENDS OF
   MANHOLE WITH 3'+/-2" LEFT IN MANHOLE AT ONE END. EXTEND ONE END ABOVE GRADE.
4. FINISHED SUMP TO BE 13" BY 18" DEEP.
5. BOTTOM 6" OF SUMP TO BE FILLED WITH PEA GRAVEL.
6. MANHOLE NECK SHALL BE A MAXIMUM OF 30°.

COVER-M55A DUCTILE IRON MARKED ELECTRIC
NOTE: RING AND COVER SEAT TO BE MACHINED.
BOTH DUCTILE IRON M55 30°
NOTE:
1. INSTALL 70'-80' OF 4/0 TINNED BARE CU WIRE MAKING 3 COILS IN BOTTOM OF EXCAVATION. BRING WIRE THROUGH A HOLE DRILLED AT OPPOSITE ENDS OF MANHOLE WITH 3'+/-2" LEFT IN MANHOLE AT ONE END. EXTEND ONE END ABOVE GRADE.
2. MANHOLE NECK SHALL BE A MAXIMUM OF 30".

SECTION "A"
6 FT x 12 FT WITH CENTER SECTION FT (PART 1 OF 2)
NOTE:
1. RING AND COVER SEAT TO BE MACHINED. RING DUCTILE IRON M55 30”.
2. MANHOLE NECK SHALL BE A MAXIMUM OF 30”.

NOTES:
1. MIN. EXCAVATION SIZE: 8'-10”x14'-10”x DEPTH REQ’D.
2. DESIGNED FOR H-20 BRIDGE LOADING
3. INSTALL 70'-80' OF 4/0 TINNED BARE CU WIRE IN 3 COILS IN BOTTOM OF EXCAVATION. BRING WIRE THROUGH A HOLE DRILLED AT OPPOSITE ENDS OF MANHOLE WITH 3" 2" LEFT IN MANHOLE AT ONE END. EXTEND ONE END ABOVE GRADE.
4. FINISHED SUMP TO BE 13" BY 18" DEEP.
5. BOTTOM 6" OF SUMP TO BE FILLED WITH PEA GRAVEL.
6. MAKE 3 COILS OF 4/0 TINNED BARE CU WIRE UNDER BOTTOM OF MANHOLE.
NOTE:
1. INSTALL 60'-70' OF 4/0 TINNED BARE CU WIRE MAKING 3 COILS IN BOTTOM OF EXCAVATION. BRING WIRE THROUGH A HOLE DRILLED AT OPPOSITE ENDS OF MANHOLE WITH 3'+/-2" LEFT IN MANHOLE AT ONE END. EXTEND ONE END ABOVE GRADE.
2. MANHOLE NECK SHALL BE A MAXIMUM OF 30".

SECTION "A"

1458-12-07
12 FT x 12 FT x 7 FT (PART 1 OF 2)
CIVIL
MANHOLES
MANHOLES 12-FT X 12-FT

1. TOP SECTION WEIGHT APPROX. 26,000 LBS. EACH
2. BOTTOM SECTION WEIGHT APPROX. 30,000 LBS.
3. KNOCKOUTS AS REQ'D.
4. 36" MANHOLE OPENING
5. SUMP 13" BY 4" DEEP (1) REQ'D. (SEE NOTE 4 & 5 BELOW)
6. PULL IRONS (8) REQ'D.
7. INSERT 1/2" (64) REQ'D.
8. 2-TON RISS HANDLING ANCHOR (12) REQ'D.
9. MANHOLE NECK SHALL BE A MAXIMUM OF 24"

NOTES:
1. MIN. EXCAVATION SIZE: 14'-10"x14'-10"x DEPTH REQ'D.
2. DESIGNED FOR H-20 BRIDGE LOADING
3. INSTALL 60'-70' OF 4/0 TINNED BARE CU WIRE IN 3 COILS IN BOTTOM OF EXCAVATION. BRING WIRE THROUGH A HOLE DRILLED AT OPPOSITE ENDS OF MANHOLE WITH 3'± 2" LEFT IN MANHOLE AT ONE END. EXTEND ONE END ABOVE GRADE.
4. FINISHED SUMP TO BE 13"Ø BY 18" DEEP.
5. BOTTOM 6" OF SUMP TO BE FILLED WITH PEA GRAVEL.

NOTE:
1. RING AND COVER SEAT TO BE MACHINED. RING DUCTILE IRON M55 30".
2. MANHOLE NECK SHALL BE A MAXIMUM OF 30".

SECTION "B"

1458-12-07
12 FT X 12 FT X 7 FT (PART 2 OF 2)
NOTE:
1. INSTALL 70'-80' OF 4/0 TINNED BARE CU WIRE MAKING 3 COILS IN BOTTOM OF EXCAVATION. BRING WIRE THROUGH A HOLE DRILLED AT OPPOSITE ENDS OF MANHOLE WITH 3'-0"/-2" LEFT IN MANHOLE AT EACH END. EXTEND ONE END OF WIRE ABOVE GRADE.
2. MANHOLE NECK SHALL BE A MAXIMUM OF 30".

ELEVATION
12 FT x 12 FT x 12 FT (PART 1 OF 2)
NOTES:
1. MIN. EXCAVATION SIZE: 16'-6"x16'-6"x 16'-6" DEPTH REQ'D.
2. MANUFACTURER TO DESIGN FOR H-20 LOADING.
3. INSTALL 70'-80' OF 4/0 TINNED BARE CU WIRE IN 3 COILS IN BOTTOM OF EXCAVATION. BRING WIRE THROUGH A HOLE DRILLED AT OPPOSITE ENDS OF MANHOLE WITH 3'-2" LEFT IN MANHOLE AT ONE END. EXTEND ONE END OF WIRE ABOVE GRADE.
4. FINISHED SUMP TO BE 13" BY 18" DEEP.
5. BOTTOM 6" OF SUMP TO BE FILLED WITH PEA GRAVEL.
6. MANHOLE NECK SHALL BE A MAXIMUM 30".
MANHOLES 6-FT X 12-FT - 5FT MAX BURIAL DEPTH

48" DIAMETER ACCESS OPENING
SIDE C

1/2" x 2 1/2"
THREADED PLASTIC INSERT (16 PER WALL)

26" W X 20" H X 2"
DEEP THIN WALL KNOCK-OUT (4 PER WALL)

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NOTES:
1. RATED FOR USE WITH A BURIAL DEPTH NO GREATER THAN THAN 5 FEET BELOW GRADE TO THE TOP OF THE VAULT.
2. DESIGN FOR HS-20 LOADING.
3. INSTALL 60'-70' OF 4/0 TINNED BARE CU WIRE IN THE BOTTOM OF THE EXCAVATION. BRING THE WIRE THROUGH A HOLE DRILLED AT OPPOSITE ENDS OF THE MANHOLE WITH 3' ± LEFT IN THE MANHOLE AT EACH END. EXTEND ONE END ABOVE GRADE.
4. FINISHED SUMP TO BE 13" BY 18" DEEP.
5. BOTTOM 6" OF SUMP TO BE FILLED WITH PEA GRAVEL.
6. MAKE 3 COILS OF 4/0 TINNED BARE CU WIRE UNDER THE BOTTOM OF THE MANHOLE.
7. MANHOLE NECK SHALL BE A MAXIMUM OF 30".
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6. MAKE 3 COILS OF 4/0 TINNED BARE CU WIRE UNDER THE BOTTOM OF THE MANHOLE.
7. MANHOLE NECK SHALL BE A MAXIMUM OF 30".
MANHOLES 12-FT X 12-FT - 5FT MAX BURIALDEPTH

TOP VIEW

1/2" x 2 1/2"
THREADED PLASTIC
INSERT (16 PER WALL)

24"W X 48"H X 5" DEEP
THIN WALL KNOCK-OUT
(2 PER WALL)
NOTES:
1. RATED FOR USE WITH A BURIAL DEPTH NO GREATER THAN THAN 5 FEET BELOW GRADE TO THE TOP OF THE VAULT.
2. DESIGN FOR HS-20 LOADING.
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