STORM MANHOLE
TYPE A

USE CLOSED LIDS WITH "CITY OF CRYSTAL LAKE" CAST INTO LID (ONLY IF IN CITY RIGHT-OF-WAY OR MUNICIPAL UTILITY EASEMENT). USE EAST JORDAN IRON WORKS #1020AGS FRAME OR CITY APPROVED EQUIVALENT.

MAX. THREE (3) ADJUSTING RINGS ALLOWABLE
MAX. 8' HEIGHT ADJUSTMENT
FRAME AND RING(S) TO BE SET IN MORTAR BED OR SEALED WITH PREFORMED BITUMEN SEAL (E-Z STICK OR APPROVED EQUAL)

PRECAST CONCRETE MANHOLE SECTIONS-SLAB TOPS ARE PERMITTED FOR SHALLOW MANHOLES ONLY. CONCENTRIC CONES SHALL BE USED FOR ALL OTHERS.

WATERTIGHT JOINTS WITH PREFORMED BITUMEN SEAL

CAST IRON MANHOLE STEPS TO BE NEENAH R-1980-1 OR PLASTIC

UNIFORM DISTANCE, 12" MIN., 16" MAX. STEPS SHALL NOT BE PLACED OVER ANY SEWER PIPE

CLASS SI CONCRETE FILLET

PRECAST REINFORCED CONCRETE

CA-7 GRAVEL BEDDING

24" MIN.
4"

WET BRICK INSIDE AND OUTSIDE MANHOLE

4"
5"

NO STEPS IN THIS AREA

60" FOR 48" DIA.
72" FOR 60" DIA.

CASTING SCHEDULE

<table>
<thead>
<tr>
<th>LOCATION</th>
<th>EJIW</th>
<th>NEENAH</th>
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<tbody>
<tr>
<td>B or M-6.12</td>
<td>7235 M2</td>
<td>R3502-A</td>
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<tr>
<td>DEPR. CURB</td>
<td>7210 M3</td>
<td>R-2511</td>
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<td>PAVED</td>
<td>1920</td>
<td>R-1713</td>
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<tr>
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<td>1020</td>
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<th>PIPE SIZE</th>
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<tr>
<td>10&quot;-24&quot;</td>
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<td>27&quot;-48&quot;</td>
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<td>54&quot;-72&quot;</td>
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Revised: 1. 06/12/2015
2.
3.
4.

Drawing Name: UD-01d

Drawing Number

Date: 05/19/2015

Drawn: JH
Checked: AW

City of Crystal Lake, Illinois

L:-ENGINEERING AND BUILDING ENGINEERING DETAILS AND STANDARDS: