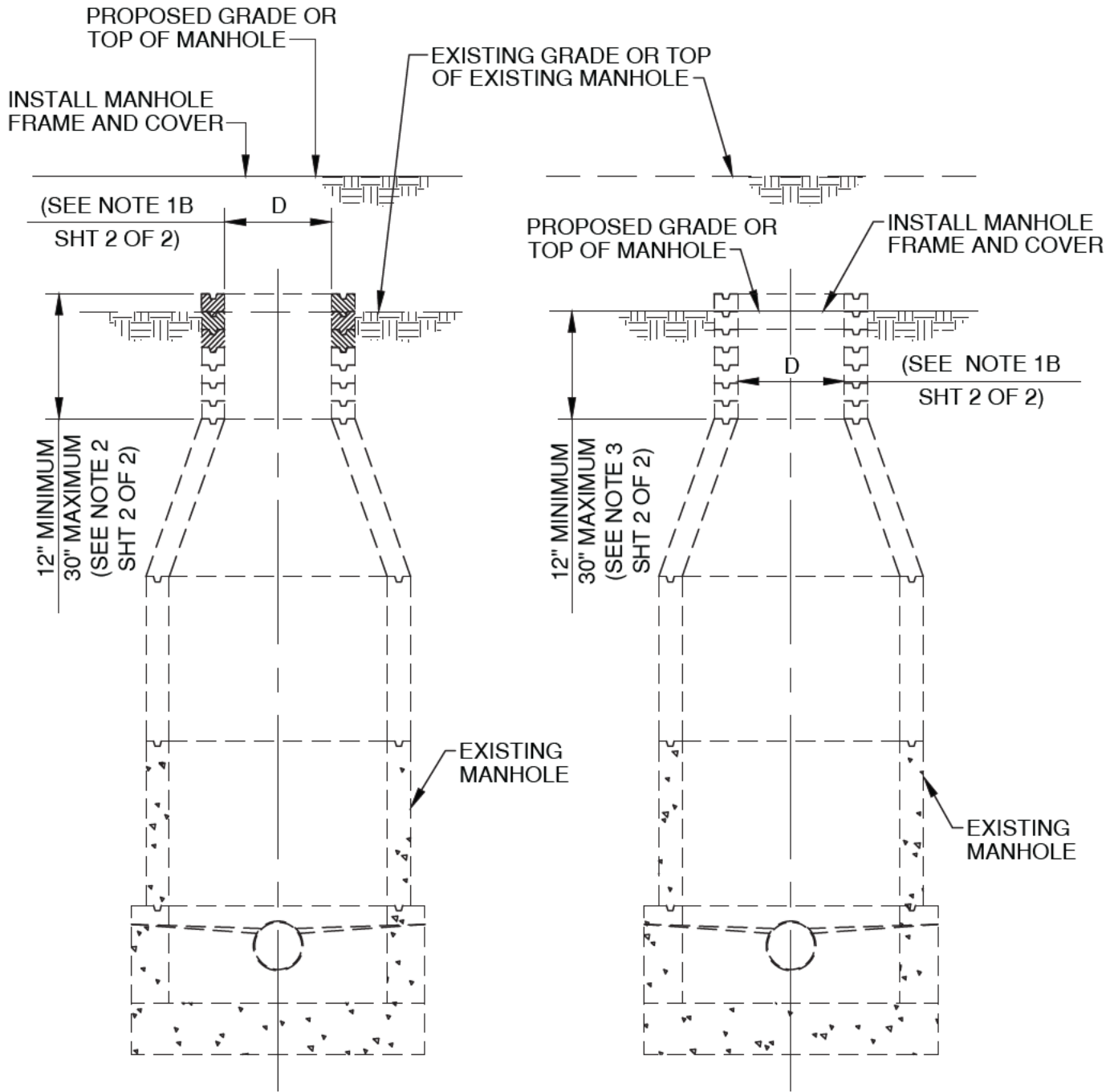


**SEE SHT 2 OF 2 FOR SEWER MANHOLE ADJUSTMENT NOTES**



**RAISING EXISTING  
PRECAST CONCRETE  
SEWER MANHOLES**

**LOWERING EXISTING  
PRECAST CONCRETE  
SEWER MANHOLES**

**PRECAST CONCRETE SEWER MANHOLES**

<p>APPROVED:</p> <p><i>Wally Allen</i> 3/2/2020</p> <p>District Engineer Date</p> <p>3/2/2020</p> <p>Latest Revision Date</p>	<p> VALLEY CENTER MUNICIPAL WATER DISTRICT STANDARD DRAWING</p> <p><b>SEWER MANHOLE ADJUSTMENT</b></p>	<p>NOT TO SCALE</p> <p>DWG. NUMBER</p> <p><b>S-17</b></p> <p>SHT 1 of 2</p>
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**NOTES:**

1. GENERAL
  - A. DIMENSION "D" SHALL BE THE SAME AS THE SIZE OF MANHOLE FRAME AND COVER TO BE USED.
  - B. THE CONTRACTOR MAY REUSE THE EXISTING MANHOLE FRAME AND COVER, UNLESS DAMAGED BY HIM DURING HIS CONSTRUCTION OPERATIONS OR WHEN OTHERWISE INDICATED ON THE PROJECT PLANS. ITEMS DAMAGED BY THE CONTRACTOR SHALL BE REPLACED WITH IDENTICAL NEW ITEMS AT NO EXPENSE TO THE AGENCY.
  
2. RAISING EXISTING PRECAST CONCRETE SEWER MANHOLES
  - A. PRECAST CONCRETE MANHOLES TO BE RAISED LESS THAN 3 INCHES MAY BE RAISED BY APPLYING CLASS "D" MORTAR TO THE TOP OF THE EXISTING MANHOLE, PROVIDING THE TOTAL HEIGHT OF MORTAR, EXISTING AND NEWLY APPLIED DOES NOT EXCEED 3 INCHES.
  - B. WHERE THE PRECAST CONCRETE MANHOLE IS TO BE RAISED 3 INCHES OR MORE, OR WHERE THE TOTAL HEIGHT OF MORTAR, EXISTING AND NEWLY APPLIED WOULD EXCEED 3 INCHES, GRADE RINGS SHALL BE UTILIZED. CLASS "D" MORTAR MAY BE USED FOR FINAL ADJUSTMENT, BUT NOT MORE THAN 3 INCHES IN HEIGHT. WHERE RAISING THE MANHOLE WOULD RESULT IN THE UPPER SEGMENT OF THE SHAFT BEING MORE THAN 30 INCHES IN HEIGHT, REMOVE THE REDUCER AND THE UPPER SEGMENT OF THE SHAFT. INSTALL ADDITIONAL RINGS OR PIPE TO THE LOWER SEGMENT OF THE SHAFT AND REINSTALL THE REDUCER AND GRADE RINGS AS REQUIRED.
  - C. RAISE MANHOLE FRAME(S) AFTER FINAL PAVING HAS BEEN COMPLETED.
  
3. LOWERING EXISTING PRECAST CONCRETE SEWER MANHOLES
  - A. REMOVE SUFFICIENT GRADE RINGS TO LOWER THE MANHOLES AS REQUIRED. APPLY CLASS "D" MORTAR TO A HEIGHT NOT EXCEEDING 3 INCHES FOR ADJUSTMENT TO FINAL GRADE.
  - B. WHERE REMOVAL OF GRADE RINGS WOULD RESULT IN THE UPPER SEGMENT OF THE SHAFT BEING LESS THAN 12 INCHES IN HEIGHT, REMOVE THE REDUCER AND SUFFICIENT SECTIONS OF THE LOWER SEGMENT OF THE SHAFT AND REINSTALL ANY NECESSARY SEGMENT OF THE LOWER SHAFT, THE REDUCER, AND THE GRADE RINGS TO CONFORM TO THE REQUIREMENTS OF THIS PLAN.
  - C. EXISTING GRADE RINGS NEED NOT BE REMOVED IF EXISTING MORTAR IS REMOVED AND AT LEAST 1 1/2 INCHES OF MORTAR MAY BE PLACED ON TOP OF THE EXISTING GRADE RINGS TO RESEAT THE FRAME.

<p>APPROVED:</p> <p><i>Wally A. Hill</i> 3/2/2020</p> <p>District Engineer Date</p> <p>3/2/2020</p> <p>Latest Revision Date</p>	<p> VALLEY CENTER MUNICIPAL WATER DISTRICT STANDARD DRAWING</p> <p><b>SEWER MANHOLE ADJUSTMENT NOTES</b></p>	<p>NOT TO SCALE</p> <p>DWG. NUMBER <b>S-17</b> SHT 2 of 2</p>
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