**48" OR 60" DIAMETER PRECAST MANHOLE PER 53-53**

- **Details:**
  - *A* hatch attached water stop (both sides)
  - Saw cut and remove top half of existing hope sewer main
  - Cast-in-place manhole base

**MANHOLE SECTION**

- **Notes:**
  1. PVC waterstop Greensteel style serrated 7893 or 479 or approved equal.
  2. Butt joint of PVC waterstop to be PVC glued.

**EXISTING HOPE SEWER MAIN**

- **WELL GRADED CRUSHED ROCK**
  - Per ASTM C33, size No. 67. Wrapped in bitumastic geotextile fabric (or approved equal) with 12-inch minimum overlap. Geotextile fabric should cover all sides of foundation to totally encase the gravel layer. There shall not be any location where the native soils are in contact with well graded crushed rock.

**WRAP PIPE**

- **Existing Hope**

**431 STAINLESS STEEL BANDS**

- **WATERSTOP**

**DETAILED "A"**

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**REVISIONS**

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**APPROVALS**

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**REFERENCES**

- **FILE 1D2**
  - Scale: None
  - Drawn by: Design

**EASTERN MUNICIPAL WATER DISTRICT**

**STANDARD DRAWING**

**48" AND 60" DIAMETER MANHOLE INSTALLATION FOR HDPE SEWER MAIN**

**APPROVED** Charles J. Buschmann

**SB-179**