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- A cross-sectional diagram of a trench. The top horizontal line is labeled "EASEMENT WIDTH ( 20' ) MIN." with a double-headed arrow. The top surface is labeled "FINISHED GRADE". The vertical depth of the trench is labeled "FULL DEPTH" with a double-headed arrow. The bottom of the trench is a horizontal line. The trench walls are sloped, with a slope indicator of "1" over "1" on the right side. A circular pipe is shown at the bottom center, with a diagonal line across it labeled "D".

## SANITARY SEWER AND WATER LINE EASEMENTS

01/01/14

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- The image contains two technical drawings illustrating the construction of a proposed pier for a storm sewer or other pipes crossing a sanitary sewer or water line.
- Top Drawing (Side Elevation):**
- Storm Sewer or Other Pipes:** Represented by a horizontal line on the left.
  - Proposed Pier:** A rectangular structure shown in cross-section, resting on a foundation.
  - Sanitary Sewer or Water:** A circular pipe shown in cross-section, passing under the pier.
  - Dimensions:**
    - L:** LENGTH OF PIPE SECTION (total length of the pier structure).
    - L/2:** Dimension from the center of the sanitary sewer to the right edge of the pier.
    - 8" MIN:** Minimum clearance from the storm sewer to the pier.
    - 6" MIN:** Minimum clearance from the sanitary sewer to the pier.
    - 8" MIN:** Minimum clearance from the pier to the nearest joint on each side.
    - 8" MIN:** Minimum clearance from the pier to the storm sewer.
    - 16" (TYP):** Typical dimension from the pier to the storm sewer.
  - Materials:**
    - PIER AT NEAREST JOINT ON EACH SIDE:** Label for the pier structure.
    - SANITARY SEWER OR WATER:** Label for the circular pipe.
    - COMPACTED GRAVEL NO. 57:** Material surrounding the sanitary sewer.
- Bottom Drawing (Top-Down View):**
- PIPE O.D.:** Outer Diameter of the sanitary sewer.
  - STORM SEWER:** Label for the horizontal pipe.
  - Sanitary Sewer or Water:** Circular pipe shown in cross-section.
  - Dimensions:**
    - 6" (left):** Dimension from the center of the sanitary sewer to the left edge of the pier.
    - 6" (right):** Dimension from the center of the sanitary sewer to the right edge of the pier.
    - 6" (bottom):** Dimension from the center of the sanitary sewer to the bottom edge of the pier.
    - 2'-0" (width):** Total width of the pier structure.
    - 8" MIN:** Minimum clearance from the pier to the storm sewer.
  - Material:**
    - (DR-14) C900 PVC PIPE:** Material for the sanitary sewer or water pipe.

### CONCRETE PIER

01/01/14

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- Diagram illustrating the cross-section of a trench excavation with various layers and dimensions:
- FINISHED GRADE**: The top surface of the excavation.
  - NORMAL SOIL CONDITIONS**: The soil above the finished grade.
  - 3' MIN.**: Minimum depth of the topsoil layer.
  - BACKFILL ONLY WITH APPROVED MATERIAL PER APPLICABLE LOCALITY OR VDOT STANDARDS**: The material used to fill the trench.
  - PIPE SIZE & MATERIAL AS SHOWN ON PLAN**: The pipe being installed.
  - FOR WATER LINES INSTALL BEDDING STONE TO SPRING LINE OF PIPE AT A MINIMUM, OR PER MANUFACTURER'S RECOMMENDATION**: The bedding material for water lines.
  - FOR SEWER LINES BEDDING SHALL BE MIN. 6" ABOVE PIPE**: The bedding material for sewer lines.
  - (4" MIN. - 6" IN ROCK CONDITIONS)**: The minimum depth of bedding in rock conditions.
  - WIDTH OF TRENCH EXCAVATION PIPE DIA. + 6" EACH SIDE (MINIMUM)**: The minimum width of the trench.
  - LOCATION OF TRACER WIRE WITH NON-METALLIC PRESSURE PIPE. TRACER WIRE NOT REQUIRED FOR TYPICAL GRAVITY SANITARY SEWER. SEE DETAIL G-4 FOR ADDITIONAL REQUIREMENTS.**: The location of the tracer wire for non-metallic pressure pipes.

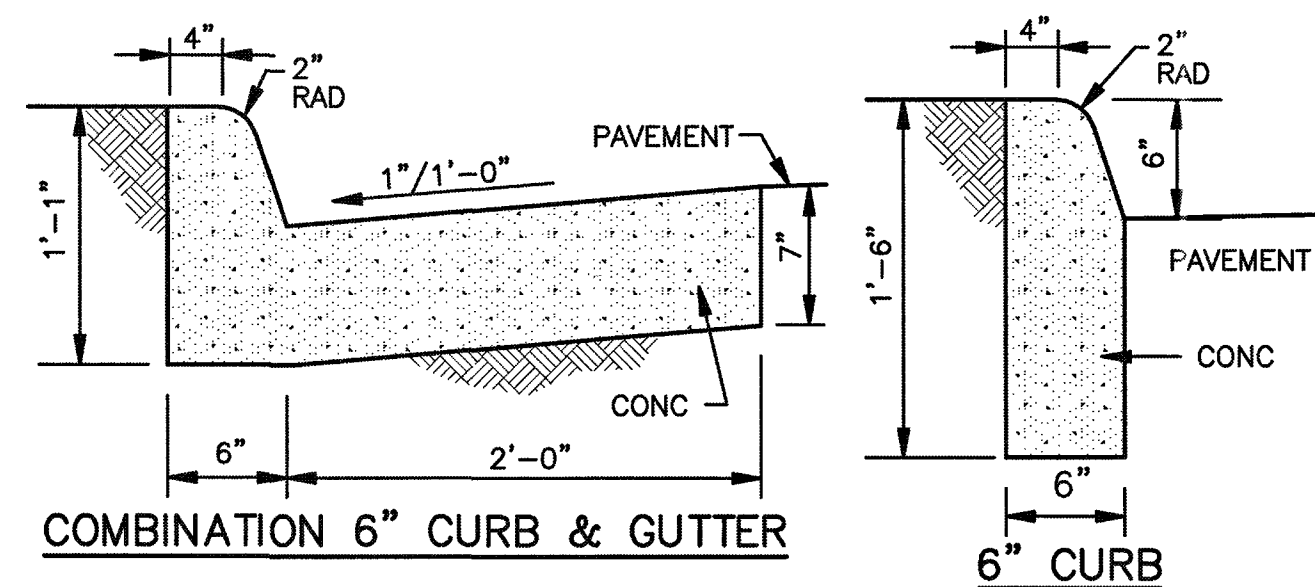
### BEDDING AND BACKFILL OUTSIDE OF PAVED AREAS

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**BEDDING AND BACKFILL  
UNDER PAVEMENT AND IN RIGHT-OF-WAY**

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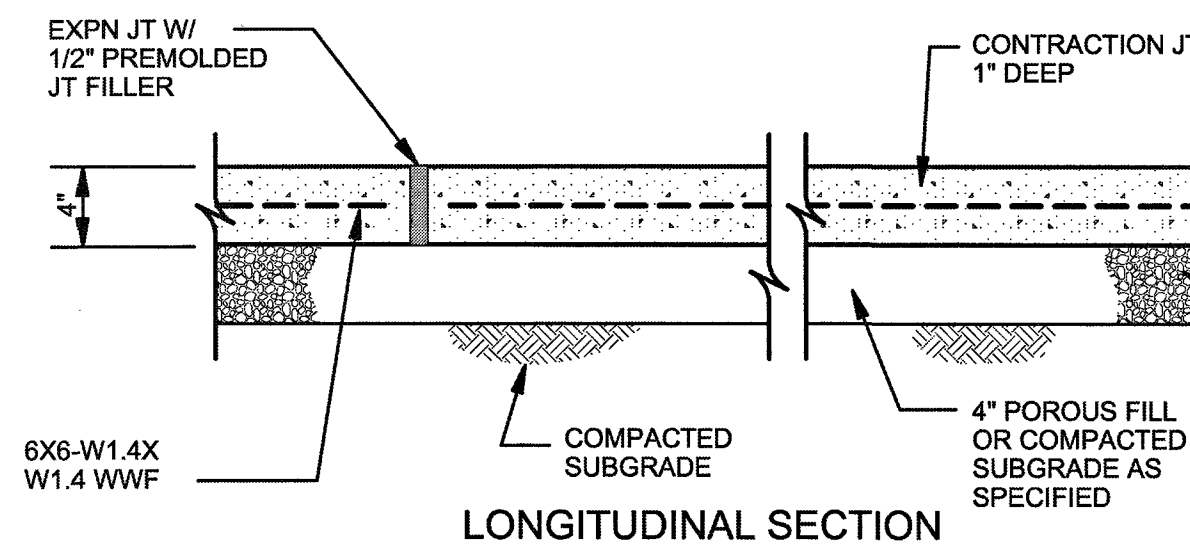


TURNED DOWN CURB (TDC) ELEVATION

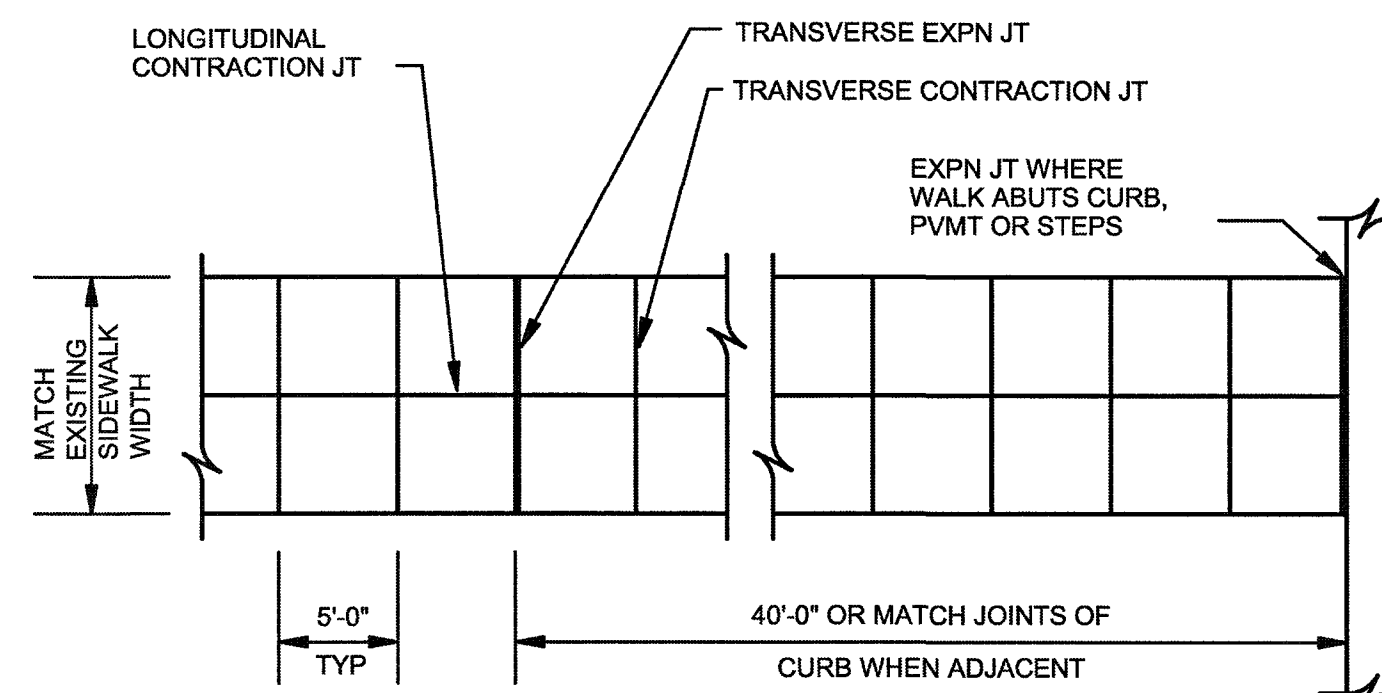
1. CURBS SHALL CONFORM TO THE RADII SHOWN ON PLANS.
2. ALL EXPOSED SURFACES SHALL BE FINISHED SMOOTH.
3. CURBS MAY BE PRECAST OR CAST-IN-PLACE.
4. FORMS SHALL BE STEEL.
5. CAST-IN-PLACE CURBS SHALL BE 8' TO 10' IN LENGTH.  
PRECAST CURBS SHALL BE 4' TO 5' IN LENGTH.
6. SEE PAVEMENT DETAIL FOR TYPE OF BEDDING.

## CURBING

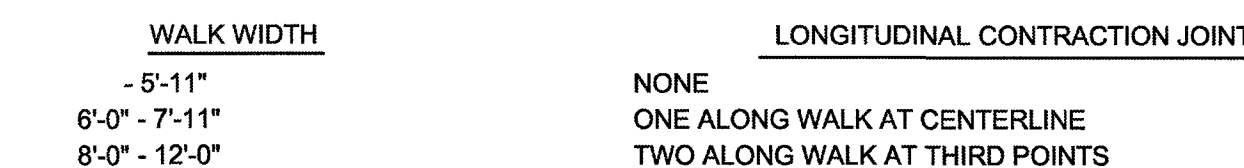
NO SCALE



## LONGITUDINAL SECTION



## PARTIAL PLAN



## CONCRETE WALK

NO SCALE

## ROANOKE, VIRGINIA

[illegible]

CIVIL / SITE

## GENERAL DETAILS