

SPECIFICATIONS

CURB & GUTTER
ENTRANCE WAYS
TRENCHES & CUTS

Standard Notes:

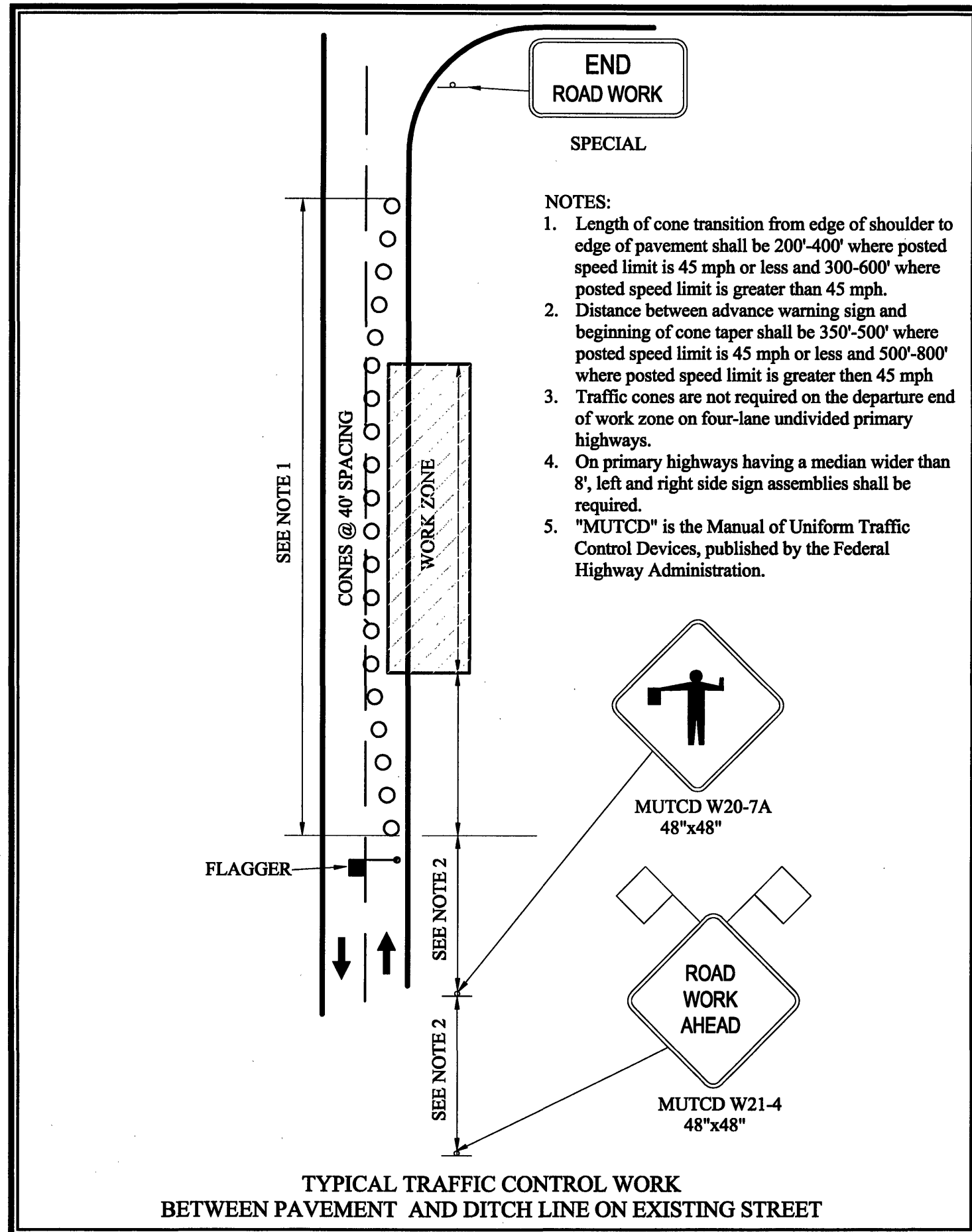
1. Work shall not commence in public right-of-way before approval by an inspector and a permit is obtained.
2. Notify Construction Inspectors office at 853-2856 - 48 hours before work begins.
3. Do not pour any concrete before forms have been inspected and approved.

Sidewalk & Entrance Way and Curb & Gutter Notes:

1. Use only standard metal forms as approved by the Virginia Department of Transportation. (Wood forms Will not be permitted.)
2. Joints or score marks are to be sharp and clean without showing edges of jointing tool.
3. All radius shown shall be 1/2" unless otherwise noted for premolded expansion joints.
4. All concrete shall be Class A 3000 P.S.I.
5. Curb radius (R) is from back of curb and gutter to back of sidewalk.

OFFICE OF THE CITY ENGINEER - ROANOKE, VIRGINIA		
APPROVED _____ CITY ENGINEER	NOTES	SHEET 1 OF 7
DATE: _____		

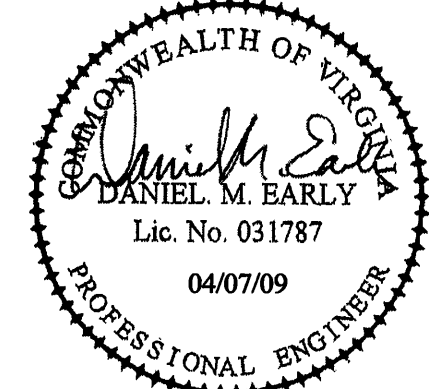
<p>NOTE 1, 7, 8</p> <p>NOTE 6</p> <p>NOTE 1, 7, 8</p> <p>NOTE 6</p> <p>NOTE 5</p> <p>NOTE 4</p> <p>NOTE 3</p> <p>NOTE 2</p> <p>MIN. 1/10 D</p> <p>D + 24" MIN.</p> <p>4" MIN.</p>		
<p>NOTES:</p> <p>1. ALL PAVEMENTS SHALL BE SAW CUT WITH NEAT, UNIFORM LINES PRIOR TO EXCAVATION.</p> <p>2. PIPE BEDDING MATERIAL SHALL BE CRUSHER RUN (VDOT NO. 25 OR 26) OR OPEN GRADED AGGREGATE (VDOT NO. 57, 68, 7, OR 8). ALTERNATE MATERIAL MUST BE APPROVED BY THE CITY ENGINEER.</p> <p>3. MAXIMUM DEPTH OF PIPE BEDDING MATERIAL IF USING OPEN GRADED AGGREGATE FOR BEDDING.</p> <p>4. OPTIONAL CONCRETE ENCASMENT FOR POWER OR COMMUNICATION CONDUIT. PROVIDE A MINIMUM OF 4" CONCRETE COVER FROM ALL SIDES OF CONDUIT.</p> <p>5. BACKFILL MATERIAL SHALL BE VDOT NO. 21A AGGREGATE, PLACED IN LOOSE LIFTS NOT EXCEEDING 6", AND COMPACTED TO AT LEAST 95% MAXIMUM DRY DENSITY WITHIN 2 PERCENTAGE POINTS OF OPTIMUM MOISTURE (VTM-1) WITH THE USE OF MECHANICAL TAMPERS OR VIBRATORY ROLLERS. WATER COMPACTION IS NOT PERMITTED. TYPE 1 SELECT MATERIAL MAY BE USED AS BACKFILL UPON PRIOR APPROVAL BY THE CITY ENGINEER. MATERIAL CLASSIFICATION SHALL BE PERFORMED ON THE ACTUAL SOIL TO VERIFY THAT SOIL MEETS VDOT SPECIFICATIONS FOR TYPE 1 SELECT MATERIAL BY A QUALIFIED TESTING LABORATORY AND TEST RESULTS SHALL BE CERTIFIED BY A VIRGINIA REGISTERED PROFESSIONAL ENGINEER. DENSITY REQUIREMENTS ARE THE SAME AS ABOVE, HOWEVER, MOISTURE CONTENT FOR SOILS MAY WITH WITHIN 20% OF OPTIMUM.</p> <p>ALL TESTING SHALL BE PERFORMED AND CERTIFIED BY A GEOTECHNICAL ENGINEER OR A VDOT-CERTIFIED TECHNICIAN. RESULTS SHALL BE PROVIDED TO THE INSPECTOR WITHIN 24 HOURS OF TESTING COMPLETION. THE COST OF ALL TESTING IS THE RESPONSIBILITY OF THE PERMITTEE. FIELD DENSITY TESTING METHODS SHALL BE APPROVED BY THE CITY ENGINEER PRIOR TO PERFORMING ANY TESTING.</p> <p>6. ALL ASPHALT PAVEMENT DEPTHS SHALL BE DETERMINED BY THE PRESENCE OF LANE STRIPING ON THE STREET. FOR STREETS WITH LANE STRIPING, THE MINIMUM DEPTH SHALL BE 6" AND CONSIST OF TWO 3" LIFTS OF ASPHALT BASE MIX AND ONE 1/2" LIFT OF ASPHALT SURFACE MIX. FOR STREETS WITHOUT LANE STRIPING, THE MINIMUM DEPTH SHALL BE 4 INCHES AND CONSIST OF ONE 2-1/2" LIFT OF ASPHALT BASE MIX AND ONE 1-1/2" LIFT OF ASPHALT SURFACE MIX. THE ASPHALT SURFACE LAYER SHALL EXTEND OVER UNDISTURBED BASE A MINIMUM OF 12" ON ALL SIDES. ALL PAVEMENT MATERIALS SHALL MEET VDOT REQUIREMENTS FOR SURFACE MIX (SM-9.5AL, SM-6.5A, OR SM-12.5D), BASE MIX (BM-25), AND STONE AGGREGATE (21A OR 21B). PLANT CERTIFICATION FOR EACH MIX INCORPORATED INTO THE WORK SHALL BE PROVIDED TO THE INSPECTOR. WHEN MATCHING NON-STANDARD MATERIALS, THE INSPECTOR SHALL DETERMINE AN ACCEPTABLE MATERIAL.</p> <p>7. THE REPAIR SHALL BE RECTANGULAR AND SAW CUT IN STRAIGHT, UNIFORM LINES THAT ARE ALIGNED WITH THE STREET CENTERLINE. WHEN EDGES OF PAVEMENT HAVE BEEN UNDERMINED, PAVEMENT SHALL BE REMOVED TO A NEAT LINE 12" BEYOND THE UNDERMINED AREA. ANY INITIAL PAVEMENT REPAIR WITH AN AREA GREATER THAN 40 SQUARE FEET MAY BE NON-RECTANGULAR, HOWEVER, THE REPAIR SHALL BE SAW CUT IN STRAIGHT, UNIFORM LINES. ANY OTHER DEVIATION ON PATCH SHAPE MUST BE APPROVED BY THE INSPECTOR PRIOR TO THE REPAIR BEING MADE. THE FINISHED PATCH SURFACE SHALL BE WITHIN 1/4 INCH AT ANY POINT ACROSS THE PATCH AS IT RELATES TO THE SURROUNDING STREET SURFACE.</p> <p>8. A FULL COVERAGE TACK COAT IS REQUIRED ON ALL SURFACES THAT WILL CONTACT THE NEW SURFACE LAYER.</p>		
<p>OFFICE OF THE CITY ENGINEER - ROANOKE, VIRGINIA</p> <p>APPROVED _____ CITY ENGINEER</p> <p>UTILITY TRENCH REPAIR IN PAVEMENT USING VDOT NO. 21A AGGREGATE</p> <p>DATE: _____</p> <p>UTR-1</p>		



ACS DESIGN

TRAFFIC CONTROL WORK ON EXISTING STREETS

This information is based on and modeled after the Work Area Protection Manual of the Virginia Department of Transportation.



ACS DESIGN

ENGINEERING • SURVEYING
LANDSCAPE ARCHITECTURE
CONSTRUCTION MANAGEMENT

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Fairhope Road Sewer Extension
Western Virginia Water Authority
City of Roanoke, Virginia

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JOB NUMBER: 07248B

REVISIONS:

No. 1	04/07/2009
No. 2	City of Roanoke Comments
No. 3	
No. 4	

SHEET NO:
C4

GENERAL
DETAILS