

NOTES :

1. ALL PAVEMENTS SHALL BE SAW CUT WITH NEAT UNIFORM LINES PRIOR TO EXCAVATION
2. PIPE BEDDING MATERIAL SHALL BE PER UTILITY REQUIREMENTS. ALTERNATIVE MATERIAL MUST BE APPROVED BY DEPARTMENT OF PUBLIC WORKS.
3. 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 PERCENT POINTS OF OPTIMUM. MOISTURE (VTIM-1) WITH USE OF MECHANICAL TAMPERS OR VIBRATORY ROLLERS. WATER COMPACTION IS NOT PERMITTED AND AREAS IN EXCESS OF 50 CY SHALL REQUIRE TESTING PERFORMED AND CERTIFIED 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 DEPARTMENT OF PUBLIC WORKS PRIOR TO TESTING
4. DEPTHS FOR AGGREGATE BASE, ASPHALT BASE AND ASPHALT SURFACE COURSE SHALL BE AS SHOWN. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS AFTER THE TRENCH HAS BEEN OPEN. THE MINIMUM DEPTHS IN ANY CASE SHALL BE 6" OF AGGREGATE BASE, 6" ASPHALT BASE AND 2" SURFACE COURSE.
5. THE REPAIR SHALL BE RECTANGULAR AND SAW CUT STRAIGHT, UNIFORM LINES THAT ARE ALLIGNED WITH THE STREET CENTERLINE. WHEN EDGES OF PAVEMENT HAVE BEEN UNDERMINED, PAVEMENT SHALL BE REMOVED TO A NEAT LINE 12" EXTENDING THE WIDTH OF THE LANE. 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.
6. TACK COAT IS REQUIRED ON ALL SURFACES THAT WILL CONTACT THE NEW SURFACE LAYER.
7. VDOT SM-9.5 D MUST BE USED ON MAIN ARTERIAL STREETS (BROAD STREET AND WASHINGTON STREET). ALL OTHER STREETS MAY USE VDOT SM-9.5A.
8. ANY OPEN CUT LESS THAN 30" IN WIDTH MUST USE FLOWABLE FILL. (DETAIL 101)

SCALE: N.T.S.

ISSUED:	1/16/15
REVISION:	1.0
REVISION:	
APPROVED:	MW/MC

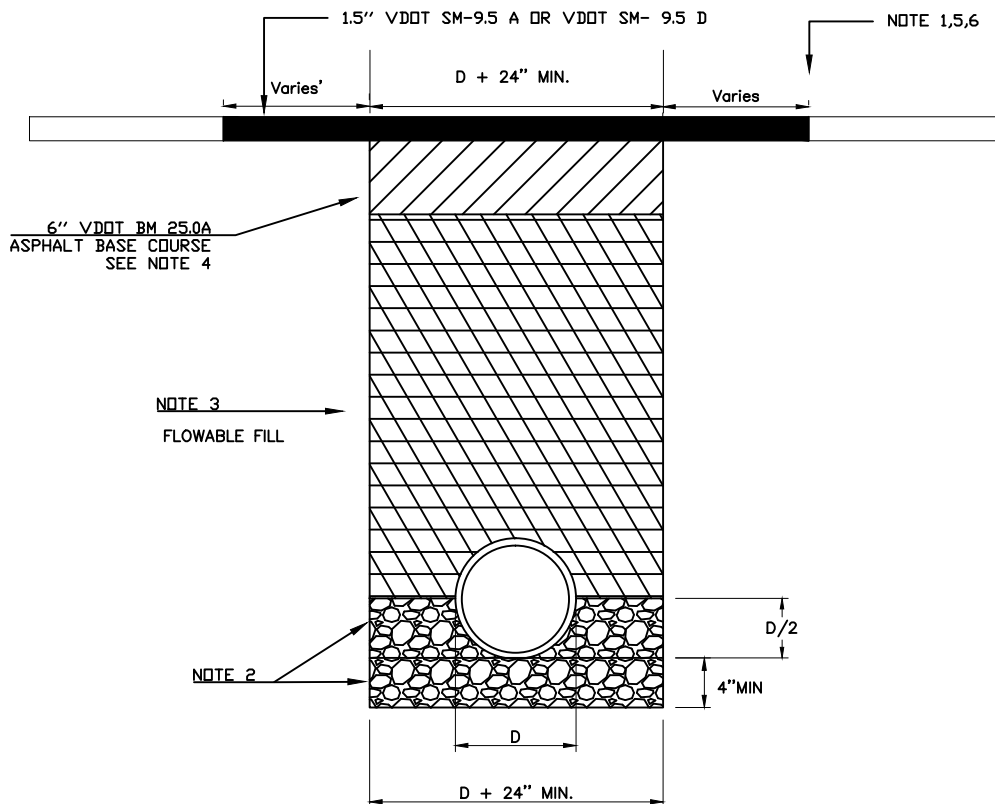


**STANDARD DETAIL**  
 UTILITY TRENCH REPAIR IN PAVEMENT  
 VDOT NO. 21A AGGREGATE

DRAWING NO.
1401

**CITY OF FALLS CHURCH VA PUBLIC WORKS**

PLOTTED: \$DATE\$ TIME\$ FILE: \$FILE\$



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2. PIPE BEDDING MATERIAL SHALL BE PER UTILITY REQUIREMENTS. ALTERNATIVE MATERIAL MUST BE APPROVED BY DEPARTMENT OF PUBLIC WORKS.
3. BACKFILL MATERIAL SHALL BE FLOWABLE FILL MIX, MEETING THE REQUIREMENTS OF VDOT SPECIAL PROVISION FOR FLOWABLE BACKFILL. THE MATERIAL MUST BE PLANT CERTIFIED. TO PROVIDE A 28 DAY COMPRESSIVE STRENGTH BETWEEN 30 AND 200 PSI. A CERTIFICATE IS NOT PERMITTED AND AREAS IN EXCESS OF 50 CY SHALL REQUIRE TESTING PERFORMED AND CERTIFIED OF MIX DESIGN MUST BE SUBMITTED TO THE DEPARTMENT OF PUBLIC WORKS PRIOR TO THE PLACING OF THE MATERIAL IN THE TRENCH. A MINIMUM OF FOUR 6X12 TEST CYLINDERS SHALL BE TAKEN FOR OVER 20CY AND THEN EVERY 50CY OF PLACEMENT. A CYLINDER SHALL BE TESTED BY A QUALIFIED TESTING LABORATORY FOR 28 DAY STRENGTH. RESULTS SHALL BE PROVIDED TO THE DEPARTMENT OF PUBLIC WORKS WITH 24 HOURS OF TESTING COMPLETION. THE COST OF THE TESTING IS THE RESPONSIBILITY OF THE PERMITEE. IF THE REPORT INDICATES THE COMPREHENSIVE STRENGTHS ARE NOT BETWEEN 30 AND 200 PSI, THE PERMITEE WILL BE RESPONSIBLE FOR REMOVING AND REPLACING THE BACKFILL WITH ACCEPTABLE BACKFILL AND COMPLETING THE RESTORATION OF THE STREET AT NO COST TO THE CITY.
4. DEPTHS FOR AGGREGATE BASE, ASPHALT BASE AND ASPHALT SURFACE COURSE SHALL BE AS SHOWN. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS AFTER THE TRENCH HAS BEEN OPEN. THE MINIMUM DEPTHS IN ANY CASE SHALL BE 6" OF AGGREGATE BASE, 6" ASPHALT BASE AND 2" SURFACE COURSE.
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ISSUED:	1/16/15
REVISION:	1.0
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APPROVED:	MW/MC



**STANDARD DETAIL**  
UTILITY TRENCH REPAIR IN PAVEMENT  
FLOWABLE FILL

DRAWING NO.	1402
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