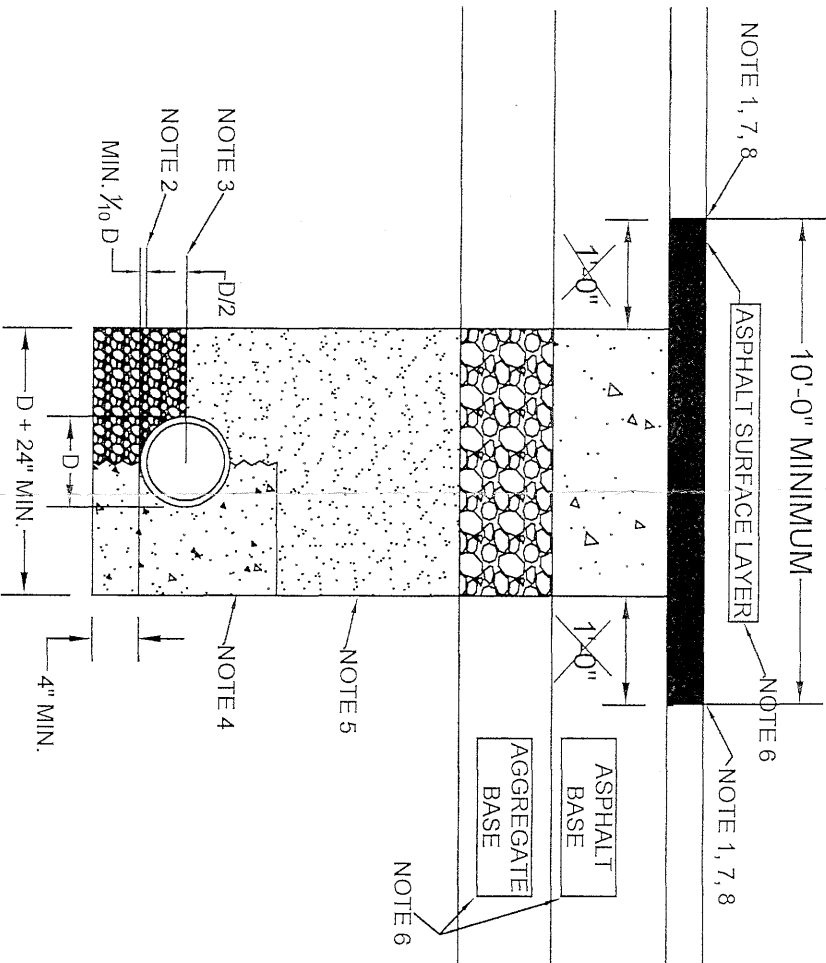


NOTE: PATCH REQUIRED TO BE MINIMUM 10'-0" WIDE PER DAN
DURHAM CITY OF ROANOKE INSPECTOR



- NOTES
1. ALL PAVEMENT SHALL BE SAW CUT WITH NEAT, UNIFORM LINES PRIOR TO EXCAVATION.
 2. PIPE BEDDING MATERIAL SHALL BE CRUSHED STONE (VDOT NO. 25 OR 26) OR OPEN GRADED AGGREGATE (VDOT NO. 57, 68, 7, OR 8). ALTERNATE MATERIALS MUST BE APPROVED BY THE CITY ENGINEER.
 3. MAXIMUM DEPTH OF PIPING BEDDING MATERIAL IF USING OPEN AGGREGATE FOR BEDDING.
 4. OPTIONAL CONCRETE EASEMENT FOR POWER OR COMMUNICATION CONDUIT. PROVIDE A MINIMUM OF 4" CONCRETE COVER FROM ALL SIDES OF CONDUIT.
 5. BACKFILL MATERIAL SHALL BE FLOWABLE FILL MEETING THE REQUIREMENTS OF VDOT SPECIAL PROVISIONS FOR FLOWABLE BACKFILL. THE MATERIAL MUST BE PLANT CERTIFIED TO PROVIDE A 28 DAY COMPRESSIVE STRENGTH BETWEEN 30 AND 200 PSI. A CERTIFICATE OF MIX DESIGN MUST BE SUBMITTED TO THE INSPECTOR PRIOR TO PLACING THE MATERIAL IN THE TRENCH.
 6. A MINIMUM OF FOUR 6X12 TEST CYLINDERS SHALL BE TAKEN EVERY 50 CY OF PLACEMENT. CYLINDERS SHALL BE TESTED BY A QUALIFIED TESTING LABORATORY FOR 28 DAY STRENGTH. RESULTS SHALL BE PROVIDED TO THE INSPECTOR WITHIN 24 HOURS OF TESTING COMPLETION. THE COSTS OF ALL TESTING ARE THE RESPONSIBILITY OF THE PERMITTEE. IF THE REPORT INDICATES THE COMPRESSION STRENGTHS ARE NOT BETWEEN 30 AND 200 PSI, THE PERMITTEE SHALL BE RESPONSIBLE FOR REMOVING AND REPLACING THE BACKFILL AND COMPLETING THE RESTORATION OF THE STREET AT NO COST TO THE CITY.
 7. ALL ASPHALT DEPTHS SHALL BE DETERMINED BY THE PRESENCE OF LANE STRIPPING ON THE STREET. FOR STREETS WITH LANE STRIPPING, THE MINIMUM DEPTH SHALL BE 8" AND CONSIST OF TWO 3" LIFTS OF ASPHALT BASE MIX AND ONE 2" LIFT OF ASPHALT SURFACE MIX. FOR STREETS WITHOUT LANE STRIPPING, THE MINIMUM DEPTH SHALL BE 4" AND CONSISTS 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-9.5A, SM-9.5A OF SM-12.5D), BASE MIX (BM-25), AND STONE AGGREGATE (21A OF 21B). PLANT CERTIFICATION FOR EACH MIX INCORPORATED INTO THE WORK SHALL BE PROVIDED TO THE INSPECTOR. WHEN MATCHING NONSTANDARD MATERIAL, THE INSPECTOR SHALL DETERMINE AN ACCEPTABLE MATERIAL.
 8. 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 12" BEYOND THE UNDERMINED AREA. ANY INITIAL PAVEMENT REPAIR WITH AN AREA GREATER THAN 40 SQ.FT. 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 REPAIRS BEING MADE. THE FINISHED PATCH SURFACE SHALL BE WITHIN 1/2" AT ANY POINT ACROSS THE PATCH AS IT RELATES TO THE SURROUNDED STREET SURFACE. A FULL COVERAGE TACK COAT IS REQUIRED ON ALL SURFACES THAT WILL CONTACT THE NEW SURFACE LAYER.

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| OFFICE OF THE CITY ENGINEER - ROANOKE VIRGINIA | |
| APPROVED | UTILITY TRENCH REPAIR IN PAVEMENT USING CONTROLLED DENSITY FILL |
| CITY ENGINEER | UTR-2 |
| DATE: | |

TRENCHING, BACKFILL AND STREET PATCH REQUIREMENTS

903 Jefferson St. SE

Page 4 of 4