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- The diagram illustrates a cross-section of a trench excavation for pipe installation. The layers from top to bottom are:
- FINISHED GRADE**: The top surface of the ground.
 - NORMAL SOIL CONDITIONS**: The soil above the trench.
 - 3" MIN.**: A layer of bedding material directly above the pipe.
 - NON-DETECTABLE WARNING TAPE 3 TO 5 MILS IN THICKNESS TO BE INSTALLED APPROX. 2" ABOVE PIPE AND AT A MINIMUM OF 6" BELOW GRADE (ALL PIPE)**: A warning tape located between the bedding and the trench walls.
 - PIPE SIZE & MATERIAL AS SHOWN ON PLAN**: The main pipe being installed.
 - BACKFILL ONLY WITH APPROVED MATERIAL PER APPLICABLE LOCALITY OR VDOT STANDARDS**: The material filling the trench around the pipe.
 - FOR WATERLINES INSTALL BEDDING STONE TO SPRING LINE OF PIPE AT A MINIMUM, OR PER MANUFACTURER'S RECOMMENDATION**: A note indicating that bedding stone should be used for waterlines up to the spring line.
 - FOR SEWER LINES BEDDING SHALL BE MIN. 6" ABOVE PIPE**: A note indicating that for sewer lines, the bedding should be at least 6 inches above the pipe.
 - PIPE OF TRENCH EXCAVATION PIPE DIA. + 4" EACH SIDE (MINIMUM)**: The width of the trench excavation.
 - NON-DETECTABLE WARNING TAPE 3 TO 5 MILS IN THICKNESS TO BE INSTALLED APPROX. 2" ABOVE PIPE AND AT A MINIMUM OF 6" BELOW GRADE (ALL PIPE)**: A second warning tape layer below the bedding stone.
 - LOCATING OF TRACER WIRE WITH NONMAGNETIC PRESSURE PIPE**: A note about the tracer wire.
 - TRACER WIRE NOT REQUIRED FOR TYPICAL GRAVITY SANITARY SEWER SEE DETAIL Q4 FOR ADDITIONAL REQUIREMENTS**: A note about the tracer wire for gravity sanitary sewers.

BEDDING AND BACKFILL
OUTSIDE OF PAVED AREAS

G-1

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- EXISTING PAVEMENT SECTION
- LIMITS OF OPEN CUT
- SURFACE MIX ASPHALT
BASE MIX ASPHALT
SUBBASE
- DEPTH VARIES
- NON-DETECTABLE WARNING TAPE:
3 TO 5 MILS IN THICKNESS. TO BE INSTALLED APPROX. 24" ABOVE PIPE AND AT A MINIMUM OF 6" BELOW GRADE (ALL PIPES)
- LOCATION OF TRACER WIRE WITH NON-METALLIC PRESSURE PIPE. TRACER WIRE NOT REQUIRED FOR TYPICAL GRAVITY SANITARY SEWER. SEE DETAIL C-4
- BACKFILL ONLY WITH APPROVED MATERIAL PER APPLICABLE LOCALITY OR VOOT STANDARDS
- PIPE SIZE & MATERIAL AS SHOWN ON PLAN
- SEE BEDDING NOTE BELOW
- (8" IN ROCK CONDITIONS)
- 4'
- WIDTH OF TRENCH EXCAVATION: PIPE DIA. + 6" EACH SIDE (MINIMUM)

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

G-12

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- EXISTING
PAVEMENT
SURFACE
- MIN. 12" FILL DEPTH
DO NOT TAPER (TYP.)
- ASPHALT CONCRETE
SURFACE COURSE
TYPE SMA-3.5
1.0 LB/LSY
- 12" ASPHALT CONCRETE
COURSE TYPE BM-20.0
- AGGREGATE BASE MATERIAL
TYPE 1 #218 SUB-BASE COURSE
- TACK COAT
0.05-0.15 GAL.
PER SQ. YD. SHALL CONFORM
TO REQUIREMENTS
OF ASHTO M208
PER S7 (TYP.)
- NON-DETECTABLE WARNING TAPE
3 TO 5 MB (DEPENDING ON TAPE)
TO BE INSTALLED APPROX. 24" ABOVE
PIPE AND AT A MINIMUM OF 6"
BELOW GRADE
- PIPELINE
SEE MATERIAL
AS SHOWN ON PLAN
- FOR WATERLINES PROVIDE
BEDDING TO SPRING LINE
OF PIPE AT A MINIMUM
OR PER MANUFACTURER'S
RECOMMENDATION
- AGGREGATE BACKFILL TYPE 1
#218 BEDDING TO 95%
MAX. DENSITY IN 15' LIFTS
- FOR SEWER LINES BEDDING
SHALL BE 8" ABOVE PIPE
- LOCATION OF TRACE WIRE WITH
NONMETALLIC PRESSURE PIPE
TRACER WIRE NOT REQUIRED FOR
TYPICAL GRAVITY SANITARY SEWER
SEE DETAIL GA-04 FOR ADDITIONAL
REQUIREMENTS.
- BENCH 12" MB (TYP.)
- BEDDING 4" MIN.
6" MIN. IN ROCK CONDITIONS
- MINIMUM REQUIRED
- TRENCH WIDTH
- STANDARD MANHOLE COVER MODEL
ROADWAYS BY EAST JORDAN ROADWORKS,
INC. OR EQUIVALENT

VDOT LAND USE PERMIT
IN CUT PAVEMENT RESTORATION

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PAVING NOTES:

- * THE BASE ASPHALT MIX SHALL BE EQUAL TO THE EXISTING PAVEMENT THICKNESS OR 3 INCHES, WHICHEVER IS GREATER.
- ** IF THE REMAINING DISTANCE TO THE EXISTING EDGE OF PAVEMENT IS LESS THAN 2 FEET, THE REMOVAL AND REPLACEMENT OF NEW SURFACE MIX ASPHALT SHALL EXTEND TO THE ORIGINAL EDGE OF PAVEMENT.
- *** EXISTING PAVEMENT SURFACE MIX TO BE SAWCUT AND TACK COATED FOR A CLEAN CONTINUOUS JOINT.

PAVEMENT RESTORATION FOR LONGITUDINAL TRENCHING LEFT TO THE VDOT ROADWAY CENTERLINE

01/01/14



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GENERAL DETAILS

SALEM TURNPIKE SANITARY SEWER

ROANOKE CITY, VIRGINIA

REVISIONS

DESIGNED BY:	BSC / JSL
DRAWN BY:	BSC / JYG
CHECKED BY:	MSH
SCALE:	AS SHOWN
DATE:	SEPTEMBER 2018
PROJECT NUMBER:	17010596-010301

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