

HOT MIX ASPHALT (HMA) PAVEMENT SHALL BE 7" MIN. THICK, OR MATCH EXISTING HMA PAVEMENT THICKNESS, WHICHEVER IS GREATER. IF EXISTING HMA PAVEMENT IS GREATER THAN 7", THE HMA DIFFERENCE SHALL CONSIST OF HMA BASE COURSE (OR BINDER COURSE, AS APPROVED BY THE VILLAGE ENGINEER, FOR SMALL QUANTITIES)

REFER TO VILLAGE STANDARD BITUMINOUS CONCRETE PAVEMENT CONSTRUCTION DETAIL FOR NYSDOT HMA TYPE AND ITEM NUMBERS

CAP SEAM WITH HOT ASPHALT CONCRETE (AC) SEALANT (i.e. MISCELLANEOUS ASPHALT CEMENT, NYSDOT ITEM NO. 618.07)

AT SAWCUT LINES, APPLY TACK COAT (NYSDOT ITEM NO. 407.0101) ALONG VERTICAL FACE OF JOINT BETWEEN EXISTING AND NEW ASPHALT CONCRETE PAVEMENT

PAVEMENT KEY IS REQUIRED FOR PAVEMENT REPLACEMENT FOR PROPOSED PIPE TRENCHES IN EXISTING BITUMINOUS CONCRETE OR PORTLAND CEMENT CONCRETE PAVEMENT

(REFER TO NOTE 1) APPROVED TRENCH BACKFILL SHALL INCLUDE NYSDOT ITEM NO. 204.01 "CONTROLLED LOW STRENGTH MATERIAL (CLSM)" OR 204.02 "CLSM (NO FLY ASH)". IF GROUNDWATER IS ENCOUNTERED AND AT THE VILLAGE ENGINEER'S DISCRETION, DEWATERING OPERATIONS CANNOT BE ACCOMPLISHED, BACKFILL MATERIAL SHALL BE CLEAN WASHED 3/4" CRUSHED STONE (NYSDOT ITEM NO. 623.12, SIZE DESIGNATION 2), AS ORDERED BY THE VILLAGE ENGINEER.

APPROVED COMPACTED SELECT GRANULAR FILL (NYSDOT ITEM NO. 203.07) OR CLEAN WASHED 3/4" CRUSHED STONE (NYSDOT ITEM NO. 623.12, SIZE DESIGNATION 2) WHEN ROCK IS NOT ENCOUNTERED

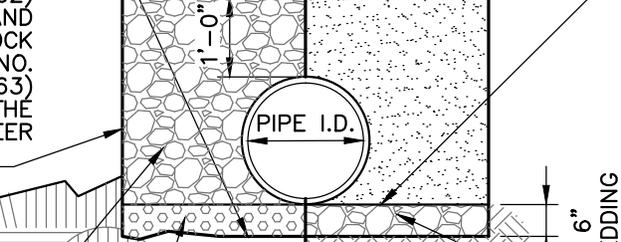
APPROVED COMPACTED SUBGRADE

TRENCH UNDER ASPHALT CONCRETE PAVEMENT (HMA) ROADWAY OR SHOULDER

FINISHED GRADE  
1.5" HMA TOP COURSE  
2.5" HMA BINDER COURSE  
3.0" HMA BASE COURSE

2'-0"

3'-0" MINIMUM SEE TABLE



6" BEDDING  
NEW OR RELOCATED PIPE TRENCH DETAIL

SURFACE RESTORATION (REFER TO DRAWINGS)

APPROVED COMPACTED SUITABLE MATERIAL FROM EXCAVATION

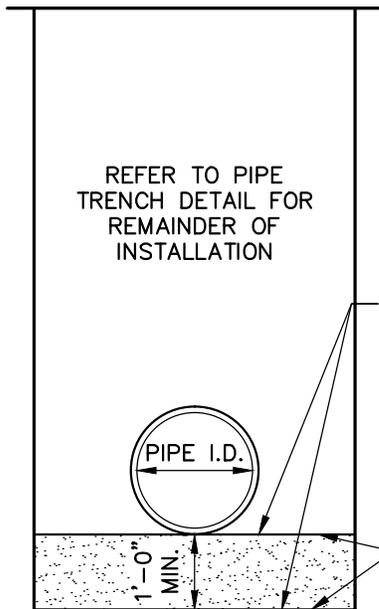
PAYMENT LINES FOR TRENCH AND CULVERT EXCAVATION—O.G. (NYSDOT ITEM NO. 206.04 OR TRENCH AND CULVERT EXCAVATION (NYSDOT ITEM NO. 206.02)

OR EXCAVATION AND DISPOSAL OF ROCK (NYSDOT ITEM NO. 203.0010063) AS ORDERED BY THE VILLAGE ENGINEER

EXCAVATION PROTECTION SYSTEM AS REQUIRED (NYSDOT ITEM NO. 552.16)

APPROVED CLEAN WASHED 3/4" CRUSHED STONE (NYSDOT ITEM NO. 623.12, SIZE DESIGNATION 2)

MIN. 6" SAND BEDDING (IF ROCK IS ENCOUNTERED)



ADDITIONAL EXCAVATION OF UNSUITABLE/UNSTABLE MATERIAL PER SECTION 206 (SEE NOTE 5)

APPROVED COMPACTED SELECT GRANULAR FILL (NYSDOT ITEM NO. 203.07)

PIPE INSTALLATION IN UNSTABLE OR UNSUITABLE SOIL CONDITIONS

EXCAVATION PAYMENT WIDTHS

PIPE INSIDE DIAMETER (I.D.)	TRENCH WIDTH
3	3'-0"
4	3'-0"
6	3'-0"
8	3'-0"
10	3'-0"
12	3'-0"
14	3'-6"
16	3'-6"
18	3'-6"
20	4'-0"
24	4'-0"
30	4'-6"
36	5'-0"
42	5'-6"
48	6'-0"
54	6'-6"
60	7'-0"
64	7'-6"

VILLAGE OF MAMARONECK STANDARD CONSTRUCTION DETAILS

PREPARED IN THE OFFICE OF THE VILLAGE ENGINEER

PIPE TRENCH AND ASPHALT CONCRETE PAVEMENT RESTORATION

DESIGNED BY: ARC, PE CHECKED BY: ARC, PE  
DRAWN BY: ARC, PE VOM Pipe Trench and Asphalt R



VILLAGE OF MAMARONECK  
VILLAGE MUNICIPAL BUILDING  
169 MT. PLEASANT AVENUE (3RD FLOOR)  
WESTCHESTER COUNTY  
VILLAGE OF MAMARONECK, NY 10543  
PHONE: (914) 777-7731  
FAX: (914) 777-7792

PROJECT: DETAILS  
SCALE: NOT TO SCALE  
DATE: 03/13/2014  
REV: 10/16/2014

SD-2A

**NOTES:**

1. FOR PIPE TRENCH INSTALLATION, CONTROLLED LOW STRENGTH MATERIAL (CLSM – NYSDOT ITEM NO. 204.01 OR 204.02) SHALL BE USED AS THE PIPE TRENCH BACKFILL MATERIAL. THE CLSM SHALL EXTEND FROM THE BOTTOM OF THE PIPE TRENCH UP TO THE BOTTOM OF THE ASPHALT CONCRETE BASE COURSE. SUBMITTALS OF THE CLSM (NYSDOT ITEM NO. 204.01 OR 204.02) SHALL BE PROVIDED TO THE VILLAGE ENGINEER FOR REVIEW AND APPROVAL.
2. UNLESS OTHERWISE NOTED, THE EXCAVATION AND EMBANKMENT AND TRENCH AND CULVERT EXCAVATION SHALL MEET THE SPECIFICATIONS OUTLINED IN SECTIONS 203 AND 206 AND OTHER APPLICABLE SECTIONS OF THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, DATED JANUARY 9, 2014 WITH LATEST REVISIONS.
3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATIONS OF EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ELEVATIONS OF EXISTING UTILITIES TO ENSURE ADEQUATE CLEARANCE FOR THE SEWER LINE EXISTS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER (IN WRITING) OF CONFLICTING ELEVATIONS, ALLOWING THE ENGINEER ADEQUATE TIME TO REVISE GRADES WITHOUT NECESSITATING REMOVAL AND RECONSTRUCTION OF WORK ALREADY COMPLETED BY THE CONTRACTOR.
4. THE TOP PAYMENT LINE FOR TRENCH EXCAVATION SHALL BE PER NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATION SECTION 206 LAST REVISED JANUARY 9, 2014 WITH LATEST REVISIONS.
5. THE MINIMUM TRENCH WIDTH MAY BE ADJUSTED TO (O.D.+12"), IF CONTROLLED LOW STRENGTH MATERIAL (CLSM) IS TO BE USED AS BACKFILL.
6. BEDDING BELOW THE PIPE INVERT SHALL BE REQUIRED FOR ALL SOIL CONDITIONS (i.e. STABLE, UNSTABLE, UNSUITABLE AND ROCK). PLEASE REFER TO THIS DETAIL FOR THE REQUIRED BEDDING MATERIAL FOR EACH SOIL CONDITION.
7. IF UNSTABLE OR UNSUITABLE SOIL CONDITIONS ARE ENCOUNTERED NEAR THE INVERT ELEVATION, A MINIMUM OF 1 FOOT AND A MAXIMUM OF 2 FEET OF MATERIAL SHALL BE EXCAVATED AND REPLACED WITH SELECT GRANULAR FILL. ADDITIONAL PAYMENT WILL BE MADE FOR MATERIAL PLACED TO TREAT UNSTABLE OR UNSUITABLE CONDITIONS.
8. BACKFILL SHALL BE INSTALLED AND COMPACTED IN ACCORDANCE WITH THE REQUIREMENTS OF NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATION SECTION 203 LAST REVISED JANUARY 9, 2014 WITH LATEST REVISIONS.
9. REFER TO PROOF ROLLING RESTRICTIONS IN §203–3.13E OF NYSDOT STANDARD SPECIFICATIONS.
10. AT THE CONTRACTOR'S RISK, CONSTRUCTION EQUIPMENT MAY BE ALLOWED TO CROSS OVER A PIPE INSTALLATION USING RAMPS CONSTRUCTED AS SHOWN IN NYSDOT PIPE TRENCH METHOD B-1 OR B-2 COMPACTED IN CONFORMANCE WITH THE REQUIREMENTS OF §203–3.12 OF NYSDOT STANDARD SPECIFICATIONS. ALL RAMPS WHICH CANNOT BE USED AS PART OF THE COMPLETED EMBANKMENT ARE INSTALLED AND REMOVED AT THE CONTRACTOR'S EXPENSE. ANY PIPE OR STRUCTURE DAMAGED OR DISTURBED BY THESE ACTIVITIES MUST BE REPLACED BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER.
11. THE VILLAGE ENGINEER SHALL INSPECT THE PIPE TRENCH PRIOR TO AND DURING BACKFILL. THE OWNER, OWNER'S REPRESENTATIVE AND/OR CONTRACTOR SHALL CONTACT THE VILLAGE ENGINEER AT (914) 777-7731 OR EMAIL ENGINEER@VOMNY.ORG (24) HOURS PRIOR TO START OF THIS WORK.

<p>VILLAGE OF MAMARONECK STANDARD CONSTRUCTION DETAILS</p>	<p><b>PIPE TRENCH AND ASPHALT CONCRETE PAVEMENT RESTORATION</b></p>		<p><b>VILLAGE OF MAMARONECK</b> VILLAGE MUNICIPAL BUILDING 169 MT. PLEASANT AVENUE (3RD FLOOR) WESTCHESTER COUNTY VILLAGE OF MAMARONECK, NY 10543 PHONE: (914) 777-7731 FAX: (914) 777-7792</p>	<p>PROJECT: DETAILS SCALE: NOT TO SCALE DATE: 03/13/2014</p>
<p>PREPARED IN THE OFFICE OF THE VILLAGE ENGINEER</p>	<p>DESIGNED BY: ARC, PE      CHECKED BY: ARC, PE DRAWN BY: ARC, PE      VOM Pipe Trench and Asphalt Re</p>	<p>SD-2A</p>		