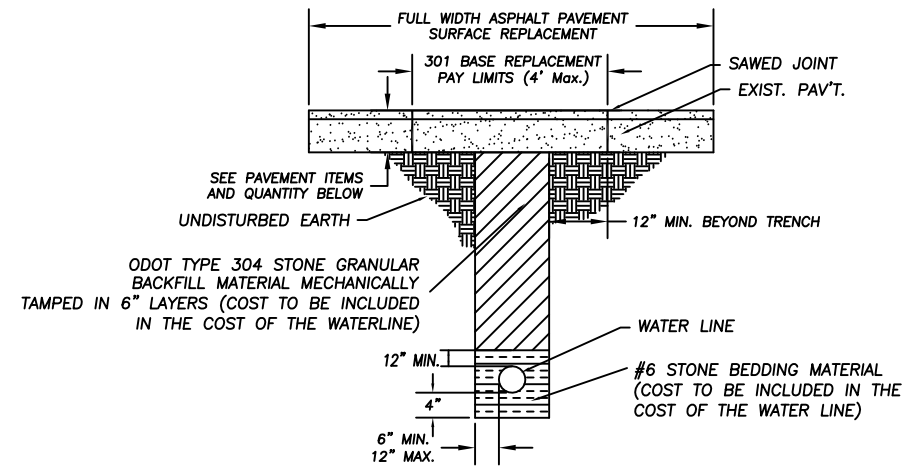
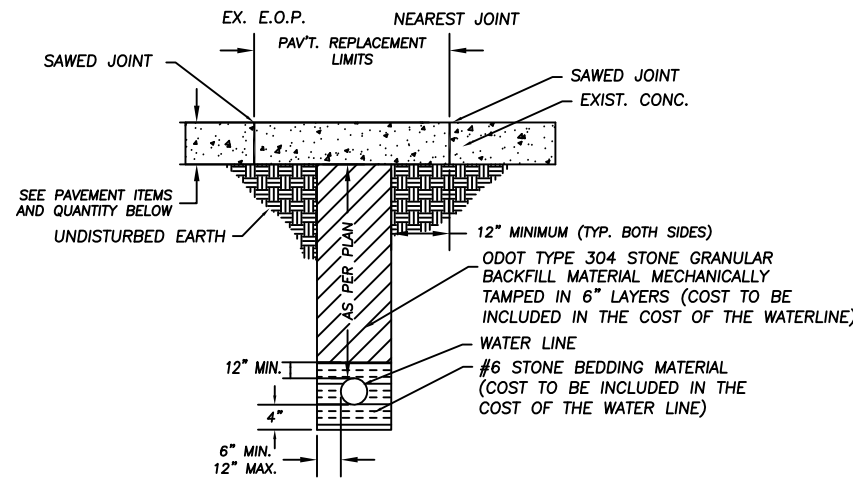


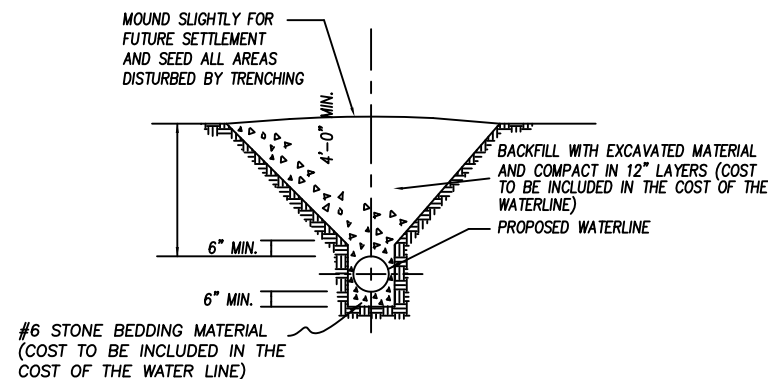
GRANULAR BACKFILLING OF TRENCH DETAIL
N.T.S.



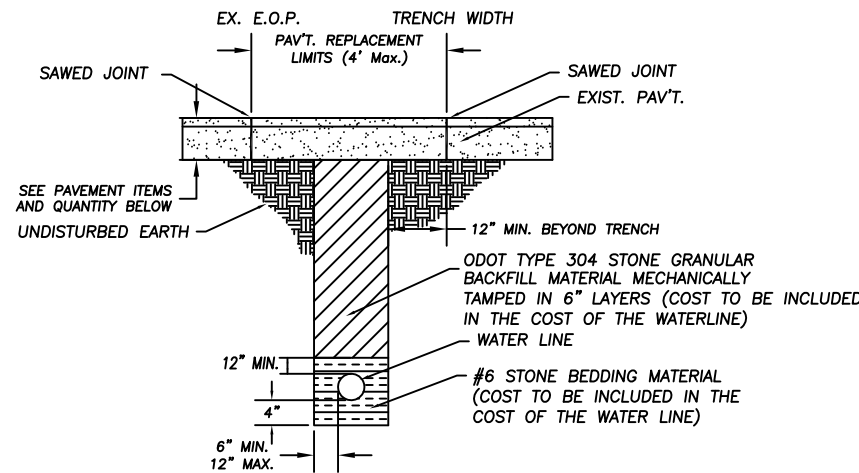
TRENCH DETAIL IN ASPHALT ROADWAY PAVEMENT
N.T.S.



TRENCH DETAIL IN CONCRETE DRIVEWAY PAVEMENT
N.T.S.



OPEN FIELD TRENCH SECTION
N.T.S.



TRENCH DETAIL IN ASPHALT DRIVEWAY PAVEMENT
N.T.S.

ASPHALT ROADWAY ENTIRE SECTION

- 1-1/2" ITEM 448 ASPHALT CONCRETE, SURFACE COURSE PG 64-22
- 1-1/2" ITEM 254 PAVEMENT PLANING, ASPHALT CONCRETE
- ITEM 408 BITUMINOUS PRIME COAT @ 0.40 GAL./S.Y.

ASPHALT ROADWAY TRENCH SECTION

- 1-1/2" ITEM 448 ASPHALT CONCRETE, SURFACE COURSE PG 64-22
- 2-1/2" ITEM 301 ASPHALT CONCRETE BASE
- ITEM 408 BITUMINOUS PRIME COAT @ 0.40 GAL./S.Y.
- VARIES ITEM 304 AGGREGATE BASE (COST TO BE INCLUDED WITH COST OF WATERLINE)

ASPHALT DRIVEWAY SECTION

- 1-1/4" ITEM 412 ASPHALT, DRIVEWAY MIX, PG 64-22
 - 1-3/4" ITEM 448 ASPHALT CONCRETE, INTERMEDIATE COURSE (DRIVEWAY)
 - ITEM 408 BITUMINOUS PRIME COAT @ 0.40 GAL./S.Y.
 - VARIES ITEM 304 AGGREGATE BASE (COST TO BE INCLUDED WITH COST OF WATERLINE)
- (REPLACEMENT TO BE FROM EDGE PAVEMENT TO EDGE OF TRENCH WIDTH.)

CONCRETE DRIVEWAYS

- 6" ITEM 452 PLAIN PORTLAND CEMENT (MS)
 - VARIES ITEM 304 AGGREGATE BASE (COST TO BE INCLUDED WITH COST OF WATERLINE)
- (REPLACEMENT TO BE FROM EDGE OF PAVEMENT TO NEAREST EXPANSION JOINT.)

STONE & GRAVEL DRIVEWAYS

- 3" ITEM 411 STABILIZED CRUSHED AGGREGATE, OR AGGREGATE TO MATCH EXISTING, PER OWNER'S REQUEST.
- VARIES ITEM 304 AGGREGATE BASE (COST TO BE INCLUDED WITH COST OF WATERLINE)

(THE COST FOR RESTORING STONE & GRAVEL DRIVEWAYS SHALL BE INCLUDED UNDER THE RESTORATION OF RIGHT-OF-WAY ITEM)

PAVEMENT ITEMS & QUANTITY PER TRENCH DETAILS

EXISTING PAVEMENT, DRIVEWAY AND SIDEWALK REPLACEMENT

GENERAL

THIS ITEM COVERS THE REPLACEMENT, EXCEPT AS NOTED, OF BRICK, CONCRETE, ASPHALT CONCRETE OR SURFACE TREATED MACADAM PAVEMENTS, DRIVEWAYS, SIDEWALKS AND PARKING AREAS WHICH ARE DAMAGED OR REMOVED DURING TRENCHING, PIPE LAYING OR OTHER OPERATIONS. GRAVEL OR STONE ROADWAYS, DRIVEWAYS OR PARKING AREAS ARE NOT CLASSIFIED AS PAVEMENTS AND SHALL BE REPLACED TO A CONDITION SIMILAR TO THAT EXISTING BEFORE CONSTRUCTION ON THE PREVIOUSLY SPECIFIED BACKFILL.

THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS SHALL BE FOLLOWED INsofar AS APPLICABLE. DRIVEWAYS AND PARKING AREAS SHALL BE CLASSIFIED AS PAVEMENTS ACCORDING TO THE TYPES OF MATERIALS OF CONSTRUCTION.

PREPARATION

PRIOR TO THE REPLACEMENT OF THE PERMANENT PAVEMENT, ANY TEMPORARY PAVEMENT PLACED SHALL BE REMOVED. CONCRETE PAVEMENTS SHALL BE REMOVED TO A NEAT STRAIGHT EDGE TO A POINT 12-INCHES BEYOND EACH SIDE OF THE EXCAVATION, USING CARE TO PRESERVE ANY REINFORCEMENT WHENEVER POSSIBLE SO THAT IT CAN BE BENT BACK INTO PLACE. ASPHALT CONCRETE OR SURFACE TREATED MACADAM PAVEMENTS SHALL BE REMOVED TO A NEAT STRAIGHT EDGE.

IN ALL CASES, ANY EXCESS GRANULAR BACKFILL MATERIAL (304) PLACED SHALL BE REMOVED TO ALLOW FOR THE PLACEMENT OF THE PERMANENT PAVEMENT IN ACCORDANCE WITH THE THICKNESSES SUBSEQUENTLY SPECIFIED. IF REQUIRED, ADDITIONAL MECHANICALLY TAMPED GRANULAR BACKFILL MATERIAL (304) SHALL BE PROVIDED TO FILL ALL DEPRESSIONS AND BRING THE BASE TO THE PROPER ELEVATION. IF, IN THE OPINION OF THE CITY OR THEIR ENGINEER, THE AGGREGATE BASE IS NOT ADEQUATELY COMPACTED AND KEYS, THE BASE SHALL BE SCARIFIED TO A SUFFICIENT DEPTH AND THE AGGREGATE WORKED IN WITH MECHANICAL TAMPERS OR VIBRATORY DEVICES TO OBTAIN MAXIMUM KEYING. THE COMPACTED AGGREGATE SHALL HAVE A FIRM, EVEN SURFACE READY FOR THE PLACEMENT OF THE PERMANENT PAVEMENT.

CONCRETE PAVEMENT

CONCRETE PAVEMENT, INCLUDING DRIVEWAYS, SHALL BE REPLACED WITH CLASS I CONCRETE WITH MATERIALS AND WORKMANSHIP AS SPECIFIED BY THE ODOT CONSTRUCTION AND MATERIAL SPECIFICATION. ALL CONCRETE MATERIALS SHALL BE APPROVED BY THE CITY OR THEIR ENGINEER. AN APPROVED READY-MIX CONCRETE MAY BE USED. THE THICKNESS OF CONCRETE SHALL BE THE SAME AS THAT OF THE EXISTING ADJACENT PAVEMENT, BUT IN NO CASE SHALL IT BE LESS THAN 6-INCHES.

REINFORCEMENT SHALL BE SUBSTANTIALLY THE SAME AS IN THE EXISTING PAVEMENT.

BRICK PAVEMENTS REMOVED SHALL BE REPLACED WITH CLASS I CONCRETE. BASES OF BRICK OR CONCRETE, HAVING AN ASPHALT WEARING SURFACE, SHALL BE REPLACED WITH CLASS I CONCRETE. THE WEARING SURFACE SHALL BE REPLACED WITH 1-1/2 INCHES OF 448 ASPHALT CONCRETE.

ASPHALT CONCRETE PAVEMENTS

ASPHALT CONCRETE PAVEMENTS SHALL BE REPLACED AS DETAILED:

A. THE SURFACE COURSE SHALL CONSIST OF A MINIMUM OF 1-1/2 INCHES OF ASPHALT CONCRETE, BUT IN NO EVENT SHALL THE THICKNESS BE LESS THAN THAT REMOVED. IF THE EXISTING THICKNESS IS OF SUFFICIENT DEPTH TO WARRANT MORE THAN ONE COURSE, THE MATERIAL SHALL BE PLACED IN THE PROPER NUMBER OF COURSES NECESSARY TO PROVIDE AN ACCEPTABLE SURFACE.

B. THE INTERMEDIATE COURSE SHALL CONSIST OF A MINIMUM OF 2-1/2 INCHES OF ITEM 301 ASPHALT CONCRETE, BUT IN NO EVENT SHALL THE THICKNESS BE LESS THAN THAT REMOVED. IF THE EXISTING THICKNESS IS OF SUFFICIENT DEPTH TO WARRANT MORE THAN ONE COURSE, THE MATERIAL SHALL BE PLACED IN THE PROPER NUMBER OF COURSES NECESSARY TO PROVIDE AN ACCEPTABLE SURFACE.

C. FACES OF EXISTING PAVEMENT, CURB, STRUCTURES, ETC., AGAINST WHICH THE MIXTURE IS TO BE PLACED AND THE MATING SURFACES WHERE NEW PAVEMENT MEETS EXISTING PAVEMENT SHALL BE SEALED WITH BITUMINOUS MATERIALS.

TEMPORARY PAVEMENT

ALL PAVEMENT REPLACEMENT SHALL BE PLACED PRIOR TO OCTOBER 31ST UNLESS SPECIFIC PERMISSION IS GRANTED BY THE CITY OR THEIR ENGINEER. IN THE EVENT THAT THE PAVEMENT REPLACEMENT IS NOT COMPLETED PRIOR TO THIS DATE, THE TEMPORARY PAVEMENT SHALL BE PROVIDED AT THE CONTRACTOR'S EXPENSE AND SHALL REMAIN IN PLACE AND BE PROPERLY MAINTAINED UNTIL THE PERMANENT PAVEMENT CAN BE PLACED IN THE SPRING, AS SOON AS THE WEATHER PERMITS.

CONCRETE SIDEWALKS

EXISTING CONCRETE OR BRICK SIDEWALKS WHICH MUST BE REMOVED DURING TRENCHING, PIPE LAYING OR OTHER OPERATIONS, OR WHICH ARE DAMAGED IN CONNECTION WITH THE WORK, SHALL BE REPLACED UPON CONCLUSION OF PIPE LAYING AND BACKFILLING OPERATIONS WITH NEW CONCRETE SIDEWALKS OF THE SAME WIDTH AS THE ORIGINAL. NEW SIDEWALKS SHALL BE 4-INCHES IN THICKNESS, EXCEPT AT DRIVEWAYS WHERE THEY SHALL BE 6-INCHES THICK, AND SHALL BE LAID TO THE ESTABLISHED SIDEWALK GRADE. ALL CONCRETE SHALL BE CLASS I WITH MATERIALS AND WORKMANSHIP AS PREVIOUSLY SPECIFIED IN SECTION C. ALL MATERIALS SHALL BE APPROVED BY THE CITY OR THEIR ENGINEER. AN APPROVED READY-MIX CONCRETE MAY BE USED. INSTALLATION SHALL BE IN ACCORDANCE WITH ITEM 608.03, WITH 1/2 INCH MASTIC EXPANSION STRIPS PROVIDED AT 25 FOOT INTERVALS.

SIDEWALKS OTHER THAN CONCRETE OR BRICK SHALL BE CLASSIFIED AS PAVEMENT AND SHALL BE REPLACED AS PREVIOUSLY SPECIFIED FOR THE APPROPRIATE TYPE OF PAVEMENT.

BERMS, CURBS, GUTTERS, ETC.

ANY BERM, CURB, CURB DRAIN OR CURB AND GUTTER ON EITHER SIDE OF THE PAVEMENT WHICH ARE DAMAGED OR REMOVED MUST BE REPLACED IN THEIR ORIGINAL CONDITION AS FOUND. MATERIALS SHALL BE AS APPROVED BY THE CITY OR THEIR ENGINEER.

PAYMENT

WHERE EXISTING PAVEMENT SURFACE AND/OR BASE IS DAMAGED OR UNDERMINED AS DETERMINED BY THE ENGINEER, REPLACEMENT OR RESURFACING AS DETAILED ABOVE SHALL BE REQUIRED. THE COST OF PAVEMENT REPLACEMENT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR PERTINENT ITEMS.

SCALE AS SHOWN
DRAWN A.L.B.
CHECKED
DATE 04/29/16

TRENCH DETAILS

CITY OF OREGON

