

TOWNSHIP OF STRASBURG

Lancaster County, Pennsylvania

ORDINANCE NO. 104

AN ORDINANCE OF THE TOWNSHIP OF STRASBURG TO ESTABLISH
REQUIREMENTS FOR OPENING OR INSTALLING FACILITIES WITHIN
PUBLIC STREETS.

BE AND IT IS HEREBY ORDAINED AND ENACTED by the Board of Supervisors of
the Township of Strasburg, Lancaster County, Pennsylvania, as follows:

Section 1. Short Title. This Ordinance shall be known and may be cited as the
"Strasburg Township Road Opening Ordinance."

Section 2. Purpose. This Ordinance is enacted for the purpose of creating conditions
favorable to the health, safety, morals, and general welfare of the residents of Strasburg Township
by regulating and prohibiting the opening of any road, street or alley, or installation of any
drainage facilities in connection therewith, except in accordance with plans submitted and
approved by the Township Board of Supervisors. This Ordinance is enacted in accordance with
the Second Class Township Code.

Section 3. Definitions and Word Usage. The following words and phrases, when used in
this Ordinance, shall have the meanings ascribed to them in this Ordinance, except in those
instances where the context clearly indicates otherwise. As used in this Ordinance, words
expressed in the singular include their plural meanings and words expressed in the plural include
their singular meanings.

APPLICANT – Any person, as hereinafter defined, who submits an application for a permit.

BOARD – The Board of Supervisors of Strasburg Township, Lancaster County, Pennsylvania.

CALENDAR YEAR – January 1 through December 31, inclusive.

DESIGN MANUAL, PART 2 – The PennDOT publication containing the PennDOT highway
design criteria in effect at the time an application for a permit is filed.

DESIGN MANUAL, PART 5 – The PennDOT publication containing the PennDOT utility relocation and accommodation policies relating to permits issued in conjunction with highway construction projects in effect at the time an application for a permit is filed.

DRAINAGE FACILITY – A facility or physical improvement intended or designed to accept and/or dispose of stormwater runoff.

EMERGENCY – Any unforeseen circumstance which calls for immediate action to protect or safeguard life or property or for the restoration or continuance of public utility or other public service.

INSPECTION FEE – A fee paid by the permittee to the Township to defray road opening inspection costs.

MUNICIPAL AUTHORITY – Any municipal authority created, in whole or part, by the Board under the Pennsylvania Municipality Authorities Act, as amended, to administer a revenue-producing public enterprise.

OWNER – The owner of record of a parcel of land located within the Township.

PENNDOT – The Pennsylvania Department of Transportation and any agency successor thereto.

PERMIT – A permit issued by the Township to signify approval of a road opening or other construction work within a public road.

PERMIT FEE – A fee paid by the permittee to the Township to cover the costs of issuing, processing, and filing the street opening permit.

PERMITTEE – Any person who has been issued a permit and who shall have by acceptance thereof agreed to fulfill any provisions of this Ordinance.

PERSON – Any individual, firm, partnership, corporation, association, or other entity and the officers of such corporation or firm and the members of such partnership or association which is recognized by law as the subject of rights and duties.

PUBLIC ROAD – The entire right-of-way of a road, street, alley or public thoroughfare whether actually maintained by the Township as part of its road system or whether shown on a subdivision or land development plan and intended to be offered or dedicated to the Township in the future as part of its road system.

PUBLIC UTILITY – Any utility company, excluding municipal authorities, licensed by the Public Utility Commission of the Commonwealth of Pennsylvania.

TOWNSHIP ENGINEER – The engineer appointed by the Board.

Section 4. Scope.

- A. The permit shall be issued in the name of the owner of the facility, hereinafter called the permittee, and shall be binding upon the permittee, its agents, contractors, successors, personal representatives, and assigns. The permittee shall cause its agents, contractors, successors, personal representatives and assigns to comply with all the terms and conditions of the permit. The permit shall be maintained as a permanent record and remain in effect, subject to the conditions thereof, as long as the permittee's facilities authorized therein occupy the public right-of-way.
- B. The work authorized by this permit is subject to all applicable laws, rules and regulations, including but not limited to Act No. 247, approved October 29, 1972, of the Commonwealth of Pennsylvania, concerning environmental control measures related to pollution and the preservation of public natural resources. The work shall be done at such time and in such manner as shall be consistent with the safety of the public and shall conform to all requirements and standards of the Township, including but not limited to the technical specifications set forth in Appendix A to this Chapter. If at any time it shall be found by the Township Roadmaster or his designee that the work is not being done or has not been properly performed, the permittee and/or its contractor, upon being notified in writing by the Township Roadmaster or his designee, shall immediately see that the necessary steps, at its own expense, are taken toward placing the work in condition to conform to said requirements or standards.
- C. The technical specifications and details attached in Appendix A are incorporated herein by reference.

Section 5. Permit Required; Emergency Openings.

- A. The opening of the surface of any Township road is prohibited unless a permit is obtained for that purpose in the manner hereinafter described. Such a permit shall be granted by the Township Roadmaster or his designee when the person applying for such permit files an application with the Township in compliance with the provisions of this Ordinance and pays the Township the amounts hereafter provided.
- B. Any person working in the vicinity of a Township road, who in any manner disturbs such a road or who in any manner causes damage to a road, shall be required by this Ordinance to obtain a permit and correct such damage in accordance with the standards of the Township. Road opening permits will not be required for persons excavating adjacent to the curb for the express purpose of installing or replacing curbs and/or sidewalk provided a curb and sidewalk permit has been obtained from the Township prior to performing such work.

- C. The obtaining of road opening permits by municipal authorities shall be required; however, the fees shall be waived when work is to be performed completely by their own personnel.
- D. All contractors performing work under contract for the Township or any municipal authority shall obtain the road opening permit for road openings.
- E. Public utilities shall obtain road opening permits for road opening and for excavations to be performed by their own crew or forces or by contractors.
- F. Nothing herein contained shall be construed to permit the issuing of a permit for the making of a horizontal directional boring under any road in the Township. Tunneling will be permitted only by the Board after a demonstration that horizontal directional boring is necessary and will not damage the road.
- G. In the event that road openings are necessitated by emergencies, road opening permits shall be obtained and fees paid within five days after completion of the work, and said permit shall be retroactive to the date when the work was begun.
- H. A person performing road openings for an emergency must certify the emergency nature of the circumstances, in writing, to the Township Roadmaster within five days after such emergency.
- I. No permit shall be granted to any applicant unless the applicant shall have paid into the Township any and all monies then due to the Township for prior excavations made or for the loss, damage, or expenses in any manner occasioned by or arising from the excavation of Township roads under prior permits.

Section 6. Road Openings Prior to Reconstruction or Resurfacing.

- A. When the Township proposes to reconstruct or resurface (placement of Superpave Wearing Course) any road, the Township Roadmaster shall serve written notice by certified mail of such improvements to all persons owning property abutting the road about to be improved, and to all public utility companies operating in the Township. Within 90 calendar days from receipt of such notice, all notified persons shall complete or cause to be completed all necessary repairs and replacement of utility mains, service under the road, and designated curb and sidewalk areas. Notified persons shall also complete any new installations under the road and designated curb and sidewalk areas required for use within a 3-year period thereafter. All repairs, replacements and new installation shall be in first-class condition so that the same cannot reasonably be expected to require repairs or renewal within the period of at least three years thereafter.
- B. Upon failure of any of the notified person or persons to comply with notice from the Township Roadmaster to place the same in first-class condition as hereinbefore provided, the Township Roadmaster shall cause existing utility mains, service connections and/or

laterals to be placed in first-class condition as aforesaid, or to be entirely removed, if not used or necessary for public convenience, whereupon the Township shall be entitled to collect the cost of such renewals, repairs, removal or other work from the aforesaid responsible person or persons, either by invoicing the person or persons, or in case of water or sewer house connections, by filing municipal liens therefor against the abutting properties benefited by such connections.

- C. This section shall not forbid, however, the installation of new pipes, conduits or other services or structures, or the repair, replacement or removal of those already existing, in or under the portions of such roads improved as aforesaid, in accordance with the ordinances of the Township and the direction of PennDOT or the Township Roadmaster, upon obtaining a permit and payment to the Township of the same fees as prescribed by the provisions of this Ordinance for making a surface opening in the road.

Section 7. Prerequisite to Obtaining a Permit. Road opening permits shall only be granted upon compliance with all of the following requirements:

- A. A written application shall be filed with the Township for making all road openings or excavations and the same shall be signed by the person desiring such permit. Such application shall set forth the purpose for which such excavation is to be made; the size and location of the same; the full scope of work to be included in the project; a sketch of the proposed opening site; the date such excavation is to be refilled and resurfaced in the manner hereinafter provided; and shall provide that the applicant will faithfully comply with each and every provision contained in this Ordinance. An applicant shall furnish a drawing of the proposed opening site upon request of the Township Roadmaster. Items required on the drawing shall be specified at the time of request.
- B. Prior to the issuing of such permit, every such applicant shall pay to the Township the amount hereinafter provided.
- C. Where the road opening is required for water supply purposes, the application shall be countersigned by a representative of the water supplier or someone authorized by the water supplier before the permit will be granted.
- D. Where the road opening permit is required for sewer service purposes, the application shall be countersigned by an authorized employee of the applicable municipal authority before the permit will be granted.
- E. Except in emergency situations, the Township Roadmaster shall, at his discretion, be permitted to deny the opening of a road which has been resurfaced or reconstructed within a 3-year period prior to the date of request for the road opening.
- F. No road opening shall be performed, except in the case of emergencies, when seasonally prohibited or, in the judgment of the Township Roadmaster, working conditions are unreasonable for such work.

- G. The applicant shall agree to save the Township, its officers, employees, and agents harmless from any and all costs, damages and liabilities by reason of personal injury or property claim, which may accrue or be claimed to accrue, whether directly or indirectly, by reason of said work irrespective of the cause of such injury or damage. The acceptance of any permit under this Ordinance shall constitute such an agreement by the applicant whether the same is expressed or not.
- H. An applicant shall supply a certificate of insurance to the Township and have the certificate of insurance properly executed by the applicant's insurance agency. Properly executed certificates of insurance shall be filed with the Township and verify that the applicant is insured against claims for personal injury as well as against claims for property damages which may arise from or out of the performance of the excavation work, whether such performance be by the applicant or anyone directly or indirectly employed by them. Such insurance shall include protection against liability arising from completed operations, underground utility damage, and collapse of any property. Liability insurance for bodily injury shall be an amount not less than \$500,000 for each person and \$500,000 for each occurrence and for property damages in an amount not less than \$100,000. Such insurance shall also provide hold harmless coverage pursuant to Section 8.G above. Failure of an applicant to file a certificate of insurance shall be sufficient reason for denying a permit.

Section 8. Bond.

- A. Public utility companies desiring to open a road shall establish an escrow account in the name of the Township in the amount of 10% of the total cost of the project or \$1,500, whichever is the greater. In the event that a public utility company is engaged in two or more unrelated road opening projects, said public utility company shall execute a separate and distinct escrow account for each road opening project. At the discretion of the Township, public utilities may post a blanket bond to cover all street openings in an amount satisfactory to the Board.
- B. All other persons, including contractors performing work for municipal authorities, desiring to open a road shall furnish a properly executed corporate surety bond. Said bond shall be executed by a reputable surety company licensed to do business in the Commonwealth of Pennsylvania. All bonds secured by contractors performing work under contract with municipal authorities must be countersigned by the director or chairman of the authority.
- C. The bond shall cover road opening work performed during one calendar year. The bond shall be in effect for a 24-month period. The amount of the surety bond shall be \$1,500 unless any road excavation and restoration work for a single project exceeds the \$1,500. In this case, a person must secure additional bonding in an amount equal to the difference between the \$1,500 and the dollar amount computed in accordance with the Fee Schedule.

Section 9. Fees.

- A. A permit fee, inspection fee, and degradation fee (for Township roads only) shall be paid to the Township prior to permit issuance. The Township shall have the right in its discretion to waive fees for contractors performing work under contract with the Township.
- B. The permit fee shall be established in the manner prescribed by Section 2322 of the Second Class Township Code and Chapter 459, Occupancy of Highways by Utilities, of PennDOT regulations.
- C. The inspection fee to accompany the application, as herein provided, shall be as set by resolution by the Board or by Chapter 459, Occupancy of Highways by Utilities, of PennDOT regulations.

Section 10. Cancellation of Permit. In all cases where a permit has been issued and the work set forth in such permit has not been completed, the amount not completed shall be cancelled. The permit fee shall not be refunded upon permit cancellation.

Section 11. Revocation of Permit.

- A. All road opening permits are subject to revocation at any time by the Township Roadmaster or Code Enforcement Officer after written notice for:
 - (1) Violation of any condition of permit;
 - (2) Violation of any provision of this Ordinance or any other applicable ordinance or law relating to the work; or
 - (3) The existence of any condition or doing of any act consisting or creating a nuisance or endangering the lives or property of others.
- B. Written notice of such violation shall be served upon the person to whom the permit was granted, or their agent or employee engaged in the work. Such notice may be given either by personal delivery thereof to the person to be notified or by the United States Postal Service, postage paid, addressed to such person to be notified. The permittee shall be granted 24 hours to correct such violations, unless specifically stated otherwise within the letter of notification of such violation.
- C. Upon revocation of the permit, the inspection fee will be refunded to the permittee for that portion of the project not completed.

Section 12. Time Extensions and Fee. If any permittee is unable to complete the road opening on or before the date specified in the permit, the permittee shall file a written application

for an extension of time with the Township Code Enforcement Officer, who shall have discretion to grant or deny such application. The written application shall be in letter form and shall thoroughly explain the reasons for the extension of time plus the additional length of time required. A fee, as set by resolution by the Board, shall accompany the application. This fee shall defray the costs of processing and filing the application.

Section 13. Backfilling and Paving. The permittee shall be responsible for backfilling and paving the opening and restoring the road surface to its original condition. The Township Roadmaster shall have the full authority to establish standards for paving and backfilling materials and associated procedures. Details specifying paving and backfilling procedures and materials shall be obtained from the Township Roadmaster prior to any road opening work.

Section 14. Backfilling and Replacement of Road Surface by Township. In case the work has not been completed before the date of expiration as shown on the permit, which time shall be fixed when the permit and/or time extension is granted, the Township Roadmaster may take steps to backfill the trench and replace the road surface over the opening for which the permit has been issued. The Township shall invoice the permittee for all costs incurred by the Township in the performance of this work. Payment not made within 30 days will be chargeable against the posted bond, including all fees and costs involved in the collection of this payment.

Section 15. Responsibility; Extra Inspectors; Other Rules. The permittee shall assume all responsibility for the excavation made by such party for refilling the same and for all damages that may arise by reason of the digging of such trenches or excavations. Whenever it is determined by the Township Roadmaster that in the best interest of the Township it is necessary to assign additional road opening inspectors to supervise excavation, backfill or pavement restoration operations, such inspectors shall be paid by the Township at a rate to be fixed by the Township. The Township shall invoice the permittee for all costs incurred by the Township necessitated by the assignment of additional inspectors. The Township Roadmaster is authorized to make other rules and regulations for the excavation of roads which he may deem necessary for the proper maintenance of the road surface due to excavations, which rules and regulations shall be printed upon the permit granted or forwarded from the Township, in writing, from time to time.

Section 16. Test Holes. A road opening permit shall be obtained for any test hole work. No test holes shall be made in or upon a greater surface of the roadway than as specified in such permit, and no excavation or test holes shall interfere with any of the water pipes, sewers, drains of the Township, or any other underground utility service. Test holes having an area of four square inches or less shall be filled by the applicant with grout composed of one part cement and two parts sand and by a sufficient quantity of water, filled to the surface of the highway, and the surrounding surface of the roadway shall be placed in the same condition as before. Test holes greater than four square inches in area shall be backfilled in accordance with the provisions of this Ordinance, unless otherwise directed by the Township Roadmaster.

Section 17. Gutters, Lights and Identification.

- A. All gutters shall be left open so as not to obstruct the free passage of water, and the sidewalks and footways shall be kept in a safe and passable condition. All excavations shall have sufficient lights and barricades to identify them from all directions during the day and after dark. If for safety purposes the Township Roadmaster deems it necessary to install additional warning devices, i.e., lights, barricades or signs, the permittee shall be notified of the decision and shall receive instructions on the installation. In case of emergencies the Township may install all additional warning devices deemed necessary by the Township Roadmaster. The Township shall invoice the permittee for rental and installation costs incurred from the date of installation until the permittee installs the required warning devices.
- B. If the permittee fails to install such devices, the Township shall invoice the permittee for rental and installation costs incurred from the date of installation until the date of removal. Payment not made by the permittee within 30 days of the invoice date will be chargeable against the posted bond, including all fees and costs involved in the collection of this payment.

Section 18. Additional Work. In no case shall a permittee open or remove a greater of road surface than specified in the original application. The permittee shall not open any road area at a location not specified in the original road opening permit. If the permittee determines during construction that an additional area of road will have to be opened, he shall notify and secure permission from the Township Roadmaster and/or Code Enforcement Officer for the additional opening. Upon receipt of the permission, the permittee shall file a supplementary application for the work no later than the next day. Fee amounts specified in the Fee Schedule shall be followed for any subsequent fees associated with supplementary applications.

Section 19. Guarantee of Work. The permittee shall guarantee and maintain his work for 24 months from the completion of the restoration and replacement work. Within this 24-month period, upon notification from the Township of necessary correction work required, the permittee shall correct or cause to be corrected all restoration work required within five calendar days of receipt of notification. The Township Roadmaster shall determine the extent of the restoration required and the method of correction. Any and all work not completed within this 5-day period may be completed by the Township at the discretion of the Township Roadmaster. The Township shall invoice the permittee for all costs incurred by the Township in performance of this work. Payment not made within 30 days of the invoice date will be chargeable against the posted bond, including all fees and costs involved in the collection of this payment.

Section 20. Installation of Poles and Above Ground Facilities.

- A. New poles and other aboveground facilities shall be installed outside the highway clear zone as near the right-of-way line as practicable, under the permit and applicable provisions of Design Manual, Parts 2 and 5. In no case shall an above ground facility be

located closer than forty-eight (48) inches to the edge of the improved cartway nor shall the facility impact roadway drainage.

- B. Replacement of poles and other aboveground facilities shall comply with the permit and applicable provisions of Design Manual, Part 5.
- C. Installation of poles and other aboveground facilities in locations where highway guide rail or curb exists shall comply with the permit and applicable provisions of Design Manual, Parts 2 and 5.

Section 21. Violations and Penalties.

- A. Any person who commits or permits any other person to commit a violation of any provisions of this Ordinance, shall be liable, upon conviction thereof in a summary proceeding, to pay a fine of not less than \$100 nor more than \$1,000 for each offense, together with the costs of prosecution. Each day or portion thereof in which a violation exists shall be considered a separate violation, and each Section of this Ordinance which is violated shall be considered a separate violation.
- B. In addition to the penalties provided in Subsection A the Township shall have the right to file an action in equity to restrain or abate any violation of this Ordinance.

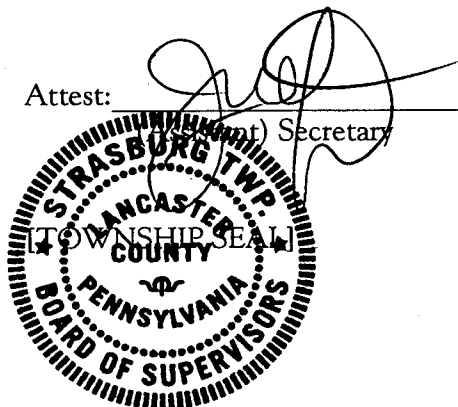
Section 22. Severability. In the event any provision, section, sentence, clause or part of this Ordinance shall be held to be invalid, illegal or unconstitutional by a court of competent jurisdiction, such invalidity, illegality or unconstitutionality shall not affect or impair the remaining provisions, sections, sentences, clauses or parts of this Ordinance, it being the intent of Board of Supervisors that the remainder of the Ordinance shall be and shall remain in full force and effect.

Section 23. Effective Date. This Ordinance shall take effect and be in force five (5) days after its enactment by the Board of Supervisors of the Township of Strasburg as provided by law.

DULY ORDAINED AND ENACTED this 1st day of May, 2017, by the Board of Supervisors of the Township of Strasburg, Lancaster County, Pennsylvania, in lawful session duly assembled.

TOWNSHIP OF STRASBURG
Lancaster County, Pennsylvania

Attest:



Secretary

By:

(Vice) Chairman
Board of Supervisors

APPENDIX A

TECHNICAL SPECIFICATIONS

1. Excavation

All excavation within any road right-of-way shall have neat vertical cut edges of the existing surfaces. During the course of excavation if any section(s) of the surface material is undermined, additional surface material shall be removed with neat vertical-square cut edges.

All materials which may be removed, and all rock, earth and sand taken from the excavation shall be removed from the roadway to an approved site. The Township has the right to require documentation of the approved disposal site.

If the excavation is stopped either totally or partially, the permittee shall refill the trench and temporarily repave over the same.

The permittee shall keep the gutters or flow channels open at all times so that the flow of storm or other waters shall not be obstructed.

Work shall be conducted so as to cause a minimum of inconvenience to pedestrian vehicular traffic and to private and public properties in the area of the work. It shall be the duty of the permittee, at all times to maintain crossings, walks, sidewalks, and other roadways open to traffic and in a satisfactory condition, and to keep all fire hydrants, water valves and letter boxes accessible for use.

Maintenance and protection of traffic on Township roads and State highways shall be in strict accordance with PennDOT Publication 408, §900 and Publication 213, Temporary Traffic Control Guidelines, latest edition, or as directed by PennDOT or Township authorities.

2. Protection of Utilities

The permittee shall be liable to cause all utilities to be located prior to opening of the road(s) and shall be liable for any damage done to any utility.

3. Backfill

All backfill material shall be in accordance with the specifications set forth herein. See Detail B-7.

Backfilling shall not be done in freezing weather except by permission of the Township and it shall not be made with frozen material.

No backfill shall be made where the material already in the trench or excavation is frozen.

All backfill in paved areas shall consist of No. 2A or 2 RC Coarse Aggregate conforming to PennDOT Specification 408, §703.

All backfill shall be thoroughly and completely tamped and compacted to a minimum of 95% Proctor density. Compaction shall be by hand or approved mechanical methods in maximum 8-inch layers. In lieu of tamping in 8-inch layers, where the extent of the excavation permits, the permittee may place the backfill material in layers not exceeding two feet and machine tamp the excavation by a "Hydro-Hammer", "Ho-pack" or approved equal. Tamping shall proceed from the center of the excavation to the sides to prevent arching.

All backfill within state highways shall conform to PennDOT, Title 67, Chapter 459, "Occupancy of Highways by Utilities".

4. Base Courses

A. Township Roads

Regardless of the thickness of the existing base courses, no permanent paving shall be placed on any base less than six inches in depth of coarse aggregate conforming to PennDOT Publication 408 specifications for Coarse Aggregate. Concrete base course shall be replaced in kind.

B. Sidewalks and Curbs

Base course under sidewalks and curbs shall consist of a minimum depth of four inches of AASHTO No. 57 (2B) Coarse Aggregate conforming to PennDOT Publication 408 specifications.

5. Surfacing

A. Township Roads

The existing surface shall be square vertical cut edges and shall be a minimum of 12 inches larger than the excavation opening on all sides. The existing surface, if bituminous, shall be tack coated to provide adherence of the new materials. Top wearing coat shall be milled 12 inches beyond the base coat-restoration edge.

Existing surface courses shall be replaced in kind, equal to the existing depth, except that no surface course shall be less than depicted in Detail B-5 noted herein conforming to PennDOT Publication 408.

The finished joints of all openings shall receive a Bituminous Seal Coat, AC-20, or RC-800 cut-back asphalt, or approved equal, extending at least eight inches over the paving junction. A dusting of sand shall be applied to the seal coat as required to prevent tracking of the asphalt by vehicles.

B. Sidewalks and Curbs

All concrete for sidewalks and curbs shall conform to PennDOT Publication 408, Section 704 for Class A Cement Concrete.

Sidewalks shall be replaced from joint to joint and shall be a minimum of four inches in thickness.

Straight or slant curb or rolled curb and gutter shall be replaced according to PennDOT or Township specifications as a minimum per the details provided herein, or equivalent to the existing, whichever is greater.

6. Lawn Areas

All areas within the right-of-way of Township roads and State highways shall be restored according to the following specifications except if the disturbed area was previously sodded. If sodded, the area shall be replaced in kind.

A. Topsoil

Topsoil shall be free from subsoil, brush, weeds, clay lumps, and stone (over ½ -inch in diameter), and shall be placed to a minimum depth of six inches.

B. Seed

All disturbed areas to be reseeded shall receive a treatment of seed in accordance with PennDOT Publication 408, Section 804 specifications, and shall be equivalent to the following mixture:

Formula B	
Ryegrass, perennial	20%
Fescue, Pennlawn Red	30%
Bluegrass, Kentucky	50%

WEARING COURSE:

1 1/2" COMPACTED SUPERPAVE ASPHALT MIXTURE DESIGN,
HMA WEARING COURSE, PG 64-22, 0.3 to 3m ESALs, 9.5mm,
SRL-L

BASE COURSE:

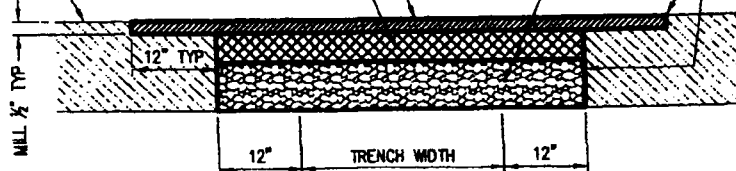
4 1/2" COMPACTED SUPERPAVE ASPHALT MIXTURE DESIGN,
HMA BASE COURSE, PG 64-22, 0.3 to 3m ESALs, 25mm OR
BINDER COURSE, 19mm

EXISTING PAVEMENT (TYP)

SUBBASE COURSE:

6" TOTAL, CONSISTING OF:
3A AGGREGATE STONE, 4" DEPTH
2A AGGREGATE STONE, 2" DEPTH

SEAL ALL JOINTS AND TACK COAT ALL
VERTICAL SURFACES WITH AC-20



SEE DETAIL 9 (PIPE BEDDING
& TRENCH BACKFILL)

LOCAL ROAD & SHOULDER RESTORATION

WEARING COURSE:

1 1/2" COMPACTED SUPERPAVE ASPHALT MIXTURE DESIGN,
HMA WEARING COURSE, PG 64-22, 0.3 to 3m ESALs, 9.5mm,
SRL TO BE DETERMINED BY TRAFFIC VOLUME

BINDER COURSE:

3" COMPACTED SUPERPAVE ASPHALT MIXTURE DESIGN,
HMA BINDER COURSE, PG 64-22, 0.3 to 3m ESALs, 19mm

EXISTING PAVEMENT (TYP)

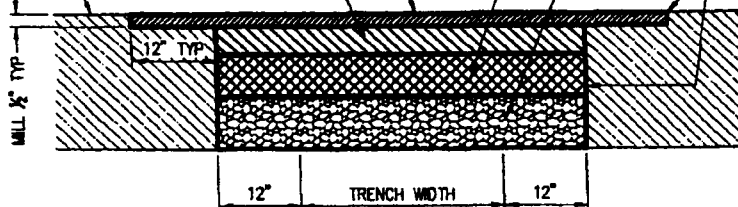
BASE COURSE:

5" COMPACTED SUPERPAVE ASPHALT MIXTURE DESIGN,
HMA BASE COURSE, PG 64-22, 0.3 to 3m ESALs,
25mm INSTALLED IN 2 LIFTS

SUBBASE COURSE:

6" TOTAL, CONSISTING OF:
3A AGGREGATE STONE, 4" DEPTH
2A AGGREGATE STONE, 2" DEPTH

SEAL ALL JOINTS AND TACK COAT ALL
VERTICAL SURFACES WITH AC-20



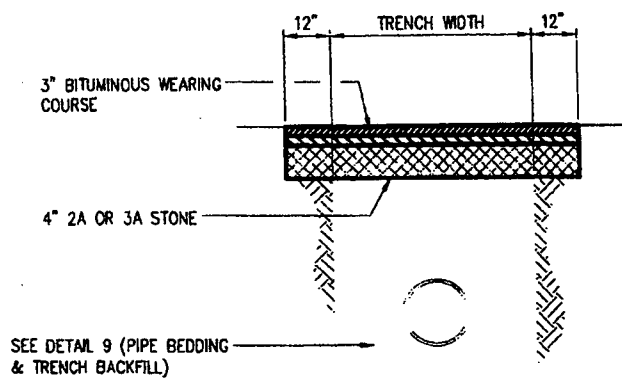
SEE DETAIL 9 (PIPE BEDDING
& TRENCH BACKFILL)

NOTES:

1. ALL VERTICAL CUTS MUST BE SAW CUT ONLY.
2. MATERIAL AND PLACEMENT FOR COARSE AND FINE AGGREGATES SHALL BE IN ACCORDANCE WITH PENNDOT SPECIFICATIONS, PUBLICATION 408 AND ITS AMENDMENTS.

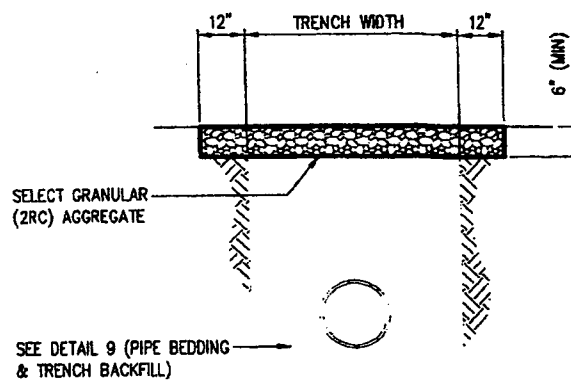
COLLECTOR AND ARTERIAL ROAD & SHOULDER RESTORATION

PERMANENT RESTORATION FOR ROADWAYS AND SHOULDERS



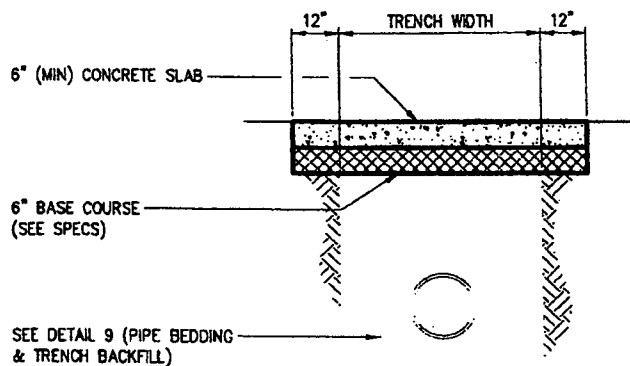
NOTE: MATCH EXISTING WIDTH OF DRIVEWAY

PAVED DRIVEWAY RESTORATION



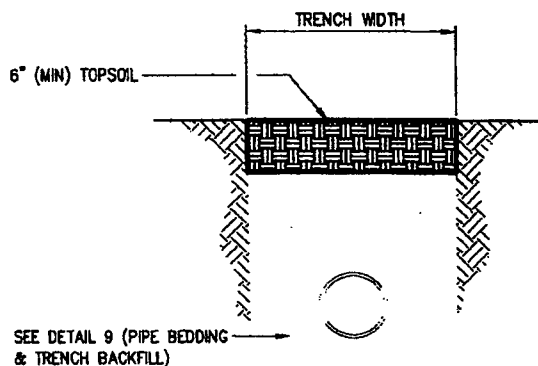
NOTE: MATCH EXISTING WIDTH OF DRIVEWAY

STONE DRIVEWAY RESTORATION



NOTE: MATCH EXISTING WIDTH OF DRIVEWAY

CONCRETE DRIVEWAY RESTORATION



NOTE: MATCH EXISTING WIDTH OF DRIVEWAY

LAWN RESTORATION

PERMANENT RESTORATION FOR AREAS OTHER THAN ROADWAYS

SEE APPROPRIATE
RESTORATION DETAIL

SELECT GRANULAR (2A
OR 2RC) AGGREGATE

AASHTO #8 (1B) STONE

12" MIN

6" MIN

ROADWAYS & SHOULDERS

SEE APPROPRIATE
RESTORATION DETAIL

CLASS 2 BACKFILL
(SEE SPECS)

AASHTO #8 (1B) STONE

12" MIN

6" MIN

OTHER THAN ROADWAYS & SHOULDERS

NOTES:

1. BACKFILL MATERIAL SHALL BE PLACED IN 12" (MAX) LIFTS. THOROUGHLY COMPACT EACH LIFT WITH MECHANICAL TAMPERS OR BY OTHER ACCEPTABLE METHODS FOR THE FULL TRENCH WIDTH. COMPACT TO NOT LESS THAN 100% OF THE DETERMINED DRY WEIGHT DENSITY OF THE BACKFILL MATERIAL.

PIPE BEDDING AND TRENCH BACKFILL