

RULES AND REGULATIONS FOR ROAD OPENINGS

**OCEAN COUNTY
BOARD OF CHOSEN FREEHOLDERS**



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Rules and Regulations For Openings

PERMIT REQUIRED -- No person, firm partnership or corporation shall open or dig a trench in any County road, street or highway without first having obtained a permit from the Ocean County Engineering Department for the specific opening or trench.

PROTECTION FOR TRAVELING PUBLIC -- The applicant shall keep all trenches and/or street openings properly guarded through the use of breakaway barricades, flashing lights, signs and reflectorized drums consistent with the Manual on Uniform Traffic Control Devices. Except as may be specifically permitted under special conditions herein, the applicant shall maintain one lane of traffic in each direction except in the immediate vicinity of the excavation and then only during working hours. In the vicinity of the excavation, one lane shall be kept open and alternated in the discretion of traffic through use of uniformed traffic directors. While the excavation operation is in progress, uniformed traffic directors shall be provided at all times. Also, a 48" x 48" W20-1F "Road Construction Ahead" sign and a 48" x 48" W20-7A(s) "Flagman Ahead" sign shall be installed in each direction 1,000 feet and 500 feet respectively in advance of operations. At the close of each day's operation, the applicant shall return the roadway to operation of one lane of traffic in each direction. No excavation within and/or immediately adjacent to roadways available to traffic shall remain open overnight.

Where specifically covered in the special conditions, a road may be temporarily closed. Any anticipated closing of County roads due to construction must be approved by the County Engineer with detailed plans and plans for emergency vehicle access submitted to him for review and approval a minimum of two weeks in advance of any anticipated closing. Any anticipated closing of Municipal or State roads which would affect traffic on County roads must be reviewed and approved by the County Engineer a minimum of two weeks before any anticipated traffic pattern change. The County reserves the right to alter the applicant's construction schedules in the coordination of traffic flow through an area where multiple openings are to take place.

All construction signing and protection devices must be in accordance with the Manual on Uniform Traffic Control Devices. For openings less than 50 feet in length, minimum of twenty-four hours and for larger openings a minimum of forty-eight hours notice shall be given to the County Engineer in advance of the start of any road opening so that an on-site review of such signs and protection devices can be made by County inspection personnel.

PROTECTION FROM SUITS--The applicant shall save harmless and agree to indemnify the County of Ocean, its officers, agents and employee from and against any loss, injury or damage resulting from any negligence, fault, acts of omission or commission on the part of the applicant, his officers, agents and employees in connection with the performance of the work covered by the permit.

The applicant shall present evidence satisfactory to the Ocean County Engineer's Office of insurance sufficient to indemnify and save harmless the County of Ocean, its agents and servants against and from all suits and costs of every kind and from any phase of the operations performed under the permit. Said insurance shall provide limits of not less than \$500,000.00 combined single limit for auto and general liability. Workers compensation insurance at statutory limits is also required.

TIME LIMITATIONS -- The applicant shall give the required twenty-four or forty-eight hour notice as applicable to the County Engineer prior to making any road openings except in cases of emergency. No project shall commence on a Saturday, Sunday or holiday and no work which will interfere with traffic, or restrict the width of pavement available for traffic, shall be performed on those days. No permit will be approved for openings scheduled for the period from December 15 to March 1 except in cases of emergency.

All openings must be backfilled and compacted immediately and the trench shall have been restored to at least temporary pavement requirements such that at not time shall the roadway pavement be opened and unpatched for a length in excess of five hundred (500) feet, or for a time in excess of one week whichever is the more restrictive measure. Final paving shall be completed within for months.

Permits issued shall become null and void unless work is commenced within thirty (30) days of the date of issuance of said permit and completed as far as the temporary pavement stage within 90 days of said issuance or unless written application for extension of time is filed by the applicant with the County Engineer. In no event will more than one thirty (30) day extension be granted. Should the permit lapse, a renewal fee of one-half the application fee will be required to reactivate the permit.

Work authorized by a permit shall be performed between the hours of 7 a.m. and 7 p.m., Monday through Friday, unless the permittee obtains written consent from the County Engineer to do work at an earlier or later hour. Such permission shall be granted only in case of an emergency or in the event the work authorized by the permit is to be performed in traffic-congested areas.

OPENINGS WITHIN 500' OF TRAFFIC SIGNALS --

Any applicant, prior to opening any County right-of-way within 500' of a signalized intersection shall contact the traffic engineering section of the County Engineer's Office in writing and/or telephone at 732-349-8165, prior to initiating said opening to discuss the effect the opening may have on operation of the traffic signal and to determine the location of underground loops and detectors and conduits. No work may commence before markout by the County Engineer's Office. For all emergency openings within 500' of signalized intersection, the County Engineer's Office must be notified to locate any conduit, overhead wiring and loop or detectors of the traffic signal.

EXCAVATION AND BACKFILL -- Methods of construction for excavation and backfill shall be in accordance with Section 207 of the New Jersey Department of Transportation Standard Specifications for Road and Bridge Construction, 1983 and such other provisions as are included herein and as may be added in the special conditions. Section 207 is quoted below:

SECTION 207-SUBSURFACE STRUCTURE EXCAVATION-

207.01 Description. This work shall consist of the excavation and backfill for the construction of pipes, electrical conduits, culverts, manholes, inlets and similar subsurface structures.

207.02 Classification of Excavation. Rock in the excavation for subsurface structures is defined as boulders more than 1/2 cubic yard in volume or rock in ledge formation which, in the opinion of the Engineer, cannot be excavated except by drilling and blasting.

MATERIALS

207.03 Bedding Materials. Portland cement concrete for Class A bedding shall conform to Section 914 for miscellaneous concrete.

Materials for Class B bedding shall consist of sand OR sandy soil, all of which passes a 3/8 inch sieve and not more than 10 percent passes a No. 200 sieve.

CONSTRUCTION

207.04 Construction Requirements. Before excavating, existing subsurface structures shall be located which may be affected by or interfere with the proposed construction. If directed, test pits shall be excavated to obtain the required information. Test pits shall be backfilled in accordance with Subsection 203.06.

The excavation shall be made in open cut and shall be of sufficient size to permit construction of the subsurface structure.

Excavations shall be shored, braced and sheathed as conditions warrant. If close to existing pavement, sidewalks, curbs, pipes, railroads or structures of any kind, the excavation shall be secured by sheet piling or other methods so that such facilities and structures will be protected.

Excavations located within the traveled way, and shoulder and sidewalk areas shall be excavated with vertical sides except that the sides may be sloped above the bottom of subbase.

Boulders, logs and other debris encountered in the excavation shall be removed.

When the material at the bottom of the excavation is unstable, it shall be removed and the space backfilled with granular material.

Subsurface structures or bedding material shall not be placed until the depth of excavation and the character of the material at the bottom of the excavation has been approved.

(a) Pipes and Culverts. When the material at the bottom of the excavation is rock or other hard material, it shall be removed 6 inches outside the bottom and sides and the space backfilled with fine material.

Excavation for trenches in embankments shall not proceed until the embankment has been constructed to an elevation of at least 3 feet above the proposed top of the pipe or culvert.

When conditions permit, trenches or pipes shall not be excavated more than 300 feet in advance of laying the pipe.

Trench crossings shall be provided and maintained where necessary.

(b) Subservice Structures Other Than Pipes and Culverts. When the material at the bottom of the excavation is rock or other hard material, it shall be cleaned of all loose material and cut to a level surface.

207.05 Bedding for Pipes and Culverts. Recesses shall be provided to accommodate pipe bells and shall be deep enough so that the bell is not resting on the bottom of the recess. The width of the recess shall not exceed the width of the bell by more than 2 inches.

If the class of bedding is not designated, pipes and culverts shall be placed directly on the material at the bottom of the excavation.

Class A bedding shall consist of a concrete cradle constructed in accordance with Section 501.

Class B bedding shall consist of bedding material shaped with a template to fit the lower part of the pipe exterior for at least 10 percent of the outside vertical pipe diameter. The minimum thickness of the bedding material, after shaping, shall be 6 inches, and shall be compacted in accordance with Subsection 207.06.

207.06 Backfilling

(a) Pipes and Culverts. Backfill to a height of 2 feet above the top of pipes and culverts, except underdrains, shall be made with excavated material free from stones or rock fragments larger than 2 inches in any dimension. Below the level the backfill shall be placed in layers not more than 6 inches thick and each layer shall be compacted with flat-face mechanical tampers.

All backfill more than 2 feet above the top of pipes and culverts, except underdrains, shall be made with excavated material and compacted in 6 inch layers as follows:

By vibratory soil compactors, if the backfill material is predominately sand, or sand and gravel.

By flat-faced mechanical tampers, if the backfill material is not predominantly sand, or sand and gravel.

Flat-faced mechanical tampers may be substituted for the vibratory soil compactors where the shoring and bracing of trenches or other special conditions make the use of vibratory compactors impractical.

The Engineer may direct compaction to be in accordance with Subsection 203.10 except the frequency of measurements may vary.

The special backfill in trenches for underdrains shall be compacted by vibratory compactors. Earth backfill above the special backfill material shall be compacted as specified in Section 203.

Shoring, bracing and sheathing shall be withdrawn as the backfilling proceeds.

(b) Structures Other Than Pipes and Culverts. Backfilling shall be made with excavated material and shall be in accordance with Subsection 206.10 except that backfill shall not be placed against newly constructed masonry or concrete for 72 hours except as authorized.

207.07 Excess Material. Excess material shall be used in accordance with Section 203 or if not required for embankments, the material shall be disposed of in accordance with Section 202.

No opening or excavation of a cross trench shall extend beyond the centerline of the road before being backfilled, compacted and the surface of the roadway temporarily restored.

All utility facilities shall be located sufficiently ahead of trench excavation work to avoid damage of those facilities and to permit their relocation, if necessary. Storm drains, pipe culverts or other facilities encountered shall be protected by the permittee. If the work performed interferes with the established drainage system of any street or road, provision shall be made by the permittee to provide proper drainage during construction and restore the existing system all to the satisfaction of the County Engineer.

No dewatering equipment, wells, points, or piping shall occupy the traveled portion of roadways unless specifically approved and adequately protected to the satisfaction of the County Engineer.

Effluent from dewatering systems shall be discharged in such a manner that erodible soils are not adversely affected. All silt and sediments being carried in the dewatering effluent must be intercepted prior to effluent discharge into any drainage

system through use of a sedimentation basin designed to allow retention of discharge for sufficient time to render such waters free of suspended silt and sediments. The use of screening devices in lieu of sedimentation basin must receive specific approval and be employed only for minor flows.

Any gravel, earth or other excavated material which is caused to roll, flow or wash upon any County road shall be removed from the roadway within twenty-four hours after deposit. In the event the earth, gravel or other excavated material so deposited is not removed, the County shall remove the material and the cost incurred shall be paid by the permittee or deducted from his deposit. Applicants are put on notice that due to the work schedule of the Road Department, it will be necessary to make such repairs after normal working hours. The permittee shall employ construction methods and means that will keep flying dust to the minimum to the satisfaction of the County Engineer.

In the event of a snow or ice storm, the permittee will be required to take whatever steps the Ocean County Road Department deems necessary to secure the traveled way for snow removal operations. At the first sign of precipitation, all work on the shoulders and traveled way shall stop and they shall be cleared of all dirt, etc. and the area backfilled so as not to interfere with County snow operations until the weather permits resumption of work.

Right-of-way or property monuments and/or markers, traffic control devices and other County maintained devices on the right-of-way shall not be removed or disturbed unless permission to do so is first obtained in writing from the County Engineer. Permission shall be granted only upon the condition that the permittee shall pay all expenses incident to the replacement of such monument and/or devices.

RESTORATION OF SURFACE PAVING AND SURFACE PAVING FOUNDATION --

A. Within grassed areas, all trench openings and damaged areas shall be backfilled for the top four inches with topsoil as defined in Section 806 of the New Jersey Department of Transportation Standard Specifications for Road and Bridge Construction, 1983 and both the trench and the area disturbed by excavated material and construction operations shall be seeded with Fertilizing and Seeding, Type A as specified in Section 909 of the same specifications.

B. Within the limits of gravel roadways, driveways and parking areas all trench openings shall be backfilled and compacted as heretofore noted. The top eight inches shall be backfilled with eight inches of compacted Soil Aggregate Designation I-5 (Formerly Type 2 Class A or B road gravel) as defined in Section 901 of the New Jersey Department of Transportation Standard Specifications for Road and Bridge Construction, 1983.

C. Within the limits of bituminous concrete or bituminous treated roadways all trench openings shall be backfilled and compacted as required in Section 207 of the New Jersey specifications listed above. The upper eleven inches of the trench shall receive a temporary repair of six inches of compacted Soil Aggregate Designation I-5 (Formerly Type 2 Class B road gravel) as defined in Section 301 of the above-listed specifications topped with five inches of bituminous stabilized based course, (Mix I-1) as defined in Section 304 of the above-listed specifications.

The temporary pavement shall remain in place until any residual settlement

takes place which time shall not exceed four months. During this time, the permittee shall assure adequate maintenance of the pavement surface level. Manholes shall have feathered approaches not to exceed a 5 percent slope where necessary and pavement lining shall be restored by the permittee for adequate traffic control

Where 25 percent or more of the existing pavement surface has been destroyed or disturbed, final paving shall consist of a one inch overlay of the entire pavement surface with Bituminous Concrete Type FA-BC (Mix I-5) as defined in Section 404 of the above-listed specifications.

Where less than 25 percent of the existing pavement surface has been destroyed or disturbed, final paving shall be as follows: The existing pavement shall be saw-cut back to a straight clean line approximately 12 inches away from each side of the existing disturbed pavement and any material within one inch of the proposed surface shall be removed and any depressions filled. One inch of Bituminous Concrete Type FA-BC (Mix I-5) as above defined shall then be placed in the prepared area.

D. Within the limits of portland cement concrete roadways, all trench openings shall be backfilled and compacted as previously required, a satisfactory foundation prepared, the reinforcement restored and the concrete pavement equal in thickness to that in place in the roadway replaced with concrete as defined in Section 405 of the above-listed specifications.

E. Road openings and/or trenches involving unusual or special conditions including attachment to bridges shall be restored in accordance with and pursuant to the direction of the County Engineer.

F. In the event that temporary paving, patching, final paving, or any other aspect of the restoration process is not completed to the satisfaction of the County Engineer, the County shall complete the restoration and the cost incurred shall be paid by the permittee or deducted from his deposit.

PERMIT FEES - The following schedule of fees is hereby fixed, determined and established as being the fees to be paid the County of Ocean for the issuance of permits in connection with the servicing of such permits and supervision and inspection of such openings to proper restoration:

A.	Openings under 50 feet in length	45.00
B.	Openings 50 feet and over but less than 200 feet	60.00
C.	Openings 200 feet and over but less than 1,000 feet	90.00
D.	Openings 1,000 feet or more	120.00

The above fees shall accompany the application when filed with the County Engineering Department and are not refundable.

BOND REQUIREMENTS - No person, firm, partnership or corporation shall open or dig a trench in any County road, street or highway without first having posted with said County a Cash or Surety Bond or Letter of Credit to guarantee that the opening or trench will be properly closed and the road, street or highway over

same reconstructed so that it will remain in good condition for at least two years after the closing by the applicant. The amount of the bond shall be computed by multiplying length times width divided by nine (9) produces square yards, then use the following schedule of costs, except that no Bond shall be less than \$1,000.00. The Bond can be in the form of cash, Letter of Credit or Surety, except that in the case of minimum Bonds (\$1,000.00) which must be in cash.

A.	Earth surface	\$6.00 per square yard
B.	Gravel surface	8.00 per square yard
C.	Bituminous concrete	20.00 per square yard
D.	Concrete pavement and concrete foundation	40.00 per square yard

A utility company may, in lieu of giving a separate Bond for each project, annually, once in January in each year, post a Bond in an amount sufficient to encompass the estimated work to be performed by said company during the calendar year; provided, however, that when the openings or trenches exceed the Bond posted additional Bonds and/or cash security will be required.

FINES AND PENALTIES - The penalty for any violation of this Resolution is hereby fixed and determined to be either a fine of not exceeding \$200.00 or imprisonment in the County jail for a term not exceeding ninety (90) days or both such fine and imprisonment, at the discretion of the Municipal Judge before whom the conviction is had.