

Res. 01-169
Adopted 8/8/01

TOWN OF NEW SCOTLAND

Albany County

New York

HIGHWAY REGULATIONS

Local Law #8

July 11, 2001

TOWN OF NEW SCOTLAND HIGHWAY REGULATIONS

A. GENERAL

1. No street laid out after the date of the passing of this Local Law will be accepted as a Town Street unless it shall conform to regulations hereinafter provided and the applicable provisions of the Town of New Scotland Subdivision Law.
 - a. Prior to acceptance by the Town all streets shall be graded according to the typical section on file in the office of the Town Superintendent of Highways, as follows: Proper drainage shall be installed where required. Corrugated iron pipe shall be used throughout for all culverts or sub-surface drains. Said pipe is to conform to the standard usage adopted by the Town Superintendent of Highways and/or the Town designated Engineer. Driveway pipe and installation shall conform to the attached drawing "Standard Driveway Ditch Crossing". A profile, in duplicate, approved by the Town Planning Board, shall be filed with the Town Board, showing the grade and fall of surface water to be not less than 1 foot every 200 feet and also showing the final disposition of flow.
 - b. All streets or roads offered for dedication shall be suitably and properly graded and shall meet with the approval of the Town Superintendent of Highways and/or the Town designated Engineer. There shall be a roadway of adequate width as designated in the Town of New Scotland Subdivision Law constructed as specified herein. The roadway section shall be as specified herein and in the Town of New Scotland Subdivision Law. The subgrade shall slope uniformly from the centerline of the street to its intersection with the gutter line. The above details are indicated on the attached drawing "Highway Cross Section, Town of New Scotland, dated January 1st, 1986.
 - c. Subgrade. After all drains have been satisfactorily completed and the subgrade has been properly sloped, it shall be thoroughly rolled and compacted with an approved self-propelled roller weighing not less than 10 tons. Care shall be taken not to roll clay foundations enough to develop a plastic condition. All subbase material shall be placed on geotextile fabric unless otherwise determined by the Highway Superintendent or Town designated Engineer. All hollows and depressions which develop shall be filled with acceptable materials and the subgrade shall be rolled again. This process of filling and rolling shall continue until no depressions develop. In places where the character of the material makes the use of such a roller impracticable, a lighter one may be permitted. The subgrade shall not be muddy, or otherwise unsatisfactory when pavement is placed upon it. All

necessary drainage to effectively drain the roadway must be completed before the placing of any pavement will be permitted thereon.

- d. Road Subbase: All subbase material shall be gravel of hard, durable stone, and well graded as specified herein.
 - e. Storm Drainage. Storm drainage shall be provided so that in no case will surface water be carried in highway ditches more than 600 feet. The minimum size storm sewer shall be 15".
 - f. All manholes, catch basins, or inlets shall be four feet in diameter and shall have a circular cross or square section. The minimum depth of catch basins from the top of the casting shall be three feet eight inches (3' 8"), and the minimum sump shall be 12". Openings in catch basin castings shall be rectangular in shape with section modulus providing for heavy loading.
2. Further, no Street offered for acceptance as a Town Highway after the date of this local law shall be accepted by the Town unless the offer is accompanied by the following:
- a. The written approval of the Town Planning Board.
 - b. A Deed acceptable to the Town Board.
 - c. A title search covering a period of at least 40 years prior to the date of application together with a tax search.
 - d. An assignment to the Town of all easements and rights of way necessary to provide for the drainage of all water from said highway.
 - e. The written approval of the New York State Department of Transportation to connect the street with any State Highway if the street joins a State highway; and the written approval of the County Superintendent of Highways to connect the street with the County highway if the street joins a County highway. This approval shall also include a statement that the provisions for drainage from the street are acceptable to the State or County.
 - f. A maintenance contract signed by offeror wherein he agrees to maintain the street in a good state of repair satisfactory to the Town Superintendent of Highways for a period of 18 months from the date of formal acceptance of the street as a Town highway. The agreement shall cover the maintenance of all portions of the street including the carriageway, shoulders, ditches, culverts, sluiceways, drainage facilities, and any other portions of the street. It shall

also obligate the offeror to correct all defects of initial installation or construction however caused.

It shall also obligate the offeror to use only materials which are satisfactory to the Town Superintendent of Highways, and if unsatisfactory materials are used, to remove them and replace them with materials satisfactory to the Town Superintendent of Highways.

The contract shall obligate the offeror to perform the work when needed and without notice from the Town and to save the Town harmless from all liability arising out of failure to fulfill his obligations under the agreement or his failure to do any work required in a proper manner.

The contract shall require the offeror to complete any work deemed to be necessary by the Town Superintendent of Highways within 10 days of receipt of a written notice by the Town Superintendent of Highways (or any such longer time as the notice may state) stating the deficiency and corrective work required. Upon the offeror's failure to comply with this written request, the Town Superintendent of Highways may, without further notice, perform or contract for the performance of the corrective work set forth in the notice at the expense of the offeror, and the offeror shall agree to pay the Town all expenses, including labor, materials, and equipment expenses, within 15 days of presentation of a statement of expenses.

The contract shall state that the offeror's obligation to perform any corrective work necessary before the end of the 18 month period shall survive the termination of the agreement and if, in the opinion of the Town Superintendent of Highways, this work cannot be segregated from work which becomes necessary after the end of the 18 month period, he, the Town Superintendent, shall in his sole discretion, designate the part (including the whole) of the work which shall be performed by the offeror.

It is the purpose of this maintenance contract to enable the Town to accept streets as Town Highways prior to the time when it would otherwise do so to assist the offeror in the financing and sale of property abutting the street but to leave with the offeror the expenses and obligations for the road which the Town would otherwise prematurely assume.

- g. A performance bond or cash deposit in the amount designated by the Town Board to guarantee the performance of the maintenance contract and the completion of the requirements of the Town Planning Board.

3. STANDARD HIGHWAY CROSS-SECTION FOR RESIDENTIAL STREETS

- a. All streets shall conform to the Standard Highway Cross-Section Details.

3.1 DRAINAGE

- a. Prior to placement of sub-base material, under-drainage shall be installed where required, as determined by existing soil and/or subsurface water conditions or as required by the Highway Superintendent. The developer, or owner, laying out the streets or highways for acceptance by the Town, shall obtain all necessary easements and/or right-of-ways necessary to take care of all surface and ground water caused by reason of the installation of culverts or surface drains or under drains.

3.2 HIGHWAY SUBBASE AND PAVEMENT SPECIFICATIONS

- a. Prior to the placement of each course of material specified herein, the Superintendent of Highways or his authorized representative shall inspect and approve the roadway construction. The developer shall install all conduits specified by any utility company, at depths and locations specified by the respective utility company prior to the placement of gravel subbase material.

Certain soil conditions or wet areas may require the use of Geotextiles when so directed by the Superintendent of Highways of his authorized representative.

- b. Prior to placement of subbase material, geotextile fabric shall be placed on the compacted subgrade.
- c. Gravel subbase material for all highways/roadways shall be Item 304.05, Type 4.
- d. Gravel subbase shall be furnished, placed and compacted in conformance with the New York State Department of Transportation (NYSDOT) "Standard Specifications-Construction and Materials" of January 2, 1990 and all addenda.

1. Materials:

Item 304.04 - Subbase Course, Type 3

Sieve Size Designation	% Passing By Weight
4 inch	100
¼ inch	30-75
No. 40	5-40
No. 200	0-10

Item 304.05 - Subbase Course, Type 4

Sieve Size Designation	% Passing By Weight
2 inch	100
¼ inch	30-65
No. 40	5-40
No. 200	0-10

Materials furnished shall consist of approved Blast Furnace Slag or Stone, Sand and Gravel or blends of these materials, free of organic or other deleterious materials.

2. Placement:

The thickness and types of gravel subbase material to be used between the top of the subgrade and the bottom of the pavement shall be approved by the Superintendent of Highways or his authorized representative.

- a. For subgrade soil consisting of stone fragments, gravel, sand, fine sand, silty or clayey gravel and sand, the proposed subbase thickness shall be 12 inches.
- b. For subgrade consisting of silty soils, the proposed subbase thickness shall be 18 inches.
- c. For subgrade soil consisting of clayey soils, the proposed subbase thickness shall be 24 inches.

To achieve the thicknesses, the following minimum and maximum depths apply:

The maximum thickness of item 304.05, Type 4, shall be 24 inches and the minimum thickness shall be 4 inches. The maximum thickness of Item

304.04, Type 3 shall be 20 inches and the minimum thickness shall be 6 inches.

Item 304.04 Type 3 material shall not be placed within 4 inches of the bottom of the pavement course. In roadway cut sections where the native material is impervious to water, ie. rock, glacial till or other materials, determined by the Superintendent of Highways or his authorized representative, the minimum thickness of Type 3 material shall be 6 inches.

The Item 304.05, Type 4, material shall be placed to final grade before paving, in a manner which minimizes segregation and shall be approved by the Superintendent of Highways or his authorized representative.

If construction equipment or other traffic must ride on the exposed subgrade surface, that surface shall be graded 2 inches higher than its final grade. Just before placement of the subbase material, that final 2 inches shall be removed so that no subgrade material appears above its final plan grade. Just prior to placing the pavement courses, the subbase shall be regraded to its final elevation. Gravel subbase material shall not be placed until the entire subgrade has been graded in accordance with the STANDARD DETAILS.

- e. Hot, plant-mixed, asphalt concrete base course shall be used to construct a base pavement course in conformance with the New York State Department of Transportation "Standard Specifications Construction and Materials" of January 2, 1990 and all addenda.

1. Materials

Item 403.13 - Asphalt Concrete, Type 3 Binder Course

Sieve Size Designation	% Passing By Weight	Tolerance %
1 ½ inch	100	-
1 inch	95-100	-
½ inch	70-90	±6
¼ inch	48-74	±7
1/8 inch	32-62	±7
No. 20	15-39	±7
No. 40	8-27	±7
No. 80	4-16	±4
No. 200	2-8	±2
Asphalt Content, Asphalt Cement	%4.5-6.5	±0.4
Grade	AC-20	
Materials Specification		

Number 702-0500
Mixing and Placing
Temperature Range of 250° F - 325° F

Bituminous plant mix asphalt concrete shall generally be composed of a mixture of aggregate, filler if required, and bituminous material. The Contractor shall formulate and submit to the Superintendent of Highways or his authorized representative, a job mix formula that satisfies the limits shown above, including the mineral aggregate sources and grade of bituminous material to be used. The aggregate tolerance shall be based on the total weight of the aggregate and bituminous material tolerances shall be based on total weight of the mix. For additional specifications, refer to NYSDOT Section 401 - Plant Mix Pavements - General, Sub-section 401-2 Materials.

2. Placement:

The asphalt concrete foundation shall be laid and rolled to a compacted thickness of 3 inches. The mixture shall not be laid on a frozen or wet surface. Before laying the asphalt concrete foundation, the subbase surface average temperature, taken at three separate locations at least 25 feet apart, shall be at least 40° F. For additional specifications on the mixing plant and construction equipment and procedures, refer to Section 401 - Plant Mix Pavements - General, Subsection 401-3 Construction Details of the New York State DOT Specifications.

Upon completion of placement of the base course, core samples shall be taken to verify the depth of materials placed. Locations and number of core samples shall be as determined by the Superintendent of Highways or his authorized representative. Cost for the core samples and reports shall be borne by the owner/developer.

After acceptance of the base course by the Superintendent of Highways or his authorized representative, placement of the wearing surface shall occur as follows:

- a. The base course shall remain uncovered until April 15 if work on the base is completed after September 15. The base course shall be broom cleaned and a tack coat applied prior to placing wearing course (no exceptions).
- b. The wearing surface may be placed immediately following the base course if soil tests have been taken and confirmed by a Testing lab that the following specifications have been met.

1. Subgrade materials compacted to 90% maximum Proctor density.
2. Subbase materials compacted to 95% maximum Proctor density.

All frames, grates, valve boxes and manholes shall be constructed at an elevation equal to the finish surface elevation of the base course material. Prior to placement of wearing surface, frames, grates, valve boxes and manholes shall be raised to the final surface elevation of the wearing course in accordance with the STANDARD DETAILS.

Prior to placement of the wearing course, the top surface of the base shall be swept and cleaned with a self propelled street sweeper. All joints, settlements and cracks, shall be filled with wearing surface materials and compacted before approval by the Superintendent of Highways or his authorized representative.

- f. Hot, plant-mixed, asphalt concrete shall be used to construct wearing courses in conformance with the New York Department of Transportation "Standard Specifications-Construction and Materials" of January 2, 1990 and all addenda.

1. Materials

Item 403.1901- Asphalt Concrete, Type 7F Top Course

Sieve Size Designation	% Passing By Weight	Tolerance %
½ inch	100	-
¼ inch	90-100	-
1/8 inch	45-70	±6
No. 20	15-40	±7
No. 40	8-27	±7
No. 80	4-16	±4
No. 200	2-6	±2
Asphalt Content, Asphalt Cement	%6.0-8.0	±0.4
Grade	AC-20	
Materials Specification Number	705-0500	
Mixing and Placing Temperature Range of	250° F - 325° F	

For additional specifications refer to NYSDOT 401-Plant Mix Pavement - General, Subsection 401-2 Materials.

2. Placement:

The asphalt concrete wearing course widths and thicknesses (1 ½") shall be in accordance with the STANDARD DETAILS. These mixtures shall not be laid on frozen or wet surfaces. Before laying the asphalt concrete, the base course surface average temperature, taken at 3 separate locations at least 25 feet apart, shall be at least 50°F. The wearing course shall be laid and rolled to a compacted thickness of 1 ½ inches.

For additional specifications, refer to Section 401-Plant Mix Pavements - General, Subsection 401-3 Construction Requirements of the New York DOT Specifications.

- g. Bituminous Pavers - The outside (pavement edge) of the screed or strike-off assembly shall be modified to extrude asphalt pavement to the shape detailed by the Town Typical Cross Section, forming a mountable curb edge monolithically with each pavement course.

A minimum 1-ton static steel wheeled roller shall be used to obtain satisfactory compaction at the curb edge

- h. Tack coat material and construction details shall comply with NYSDOT Specification Section 407 - Tack coat.

3.3 HIGHWAY CROSSINGS

OPEN CUT METHOD

Open cutting of Town roads shall take place only as approved by the Superintendent of Highways.

In areas where open cutting of the pavement is allowed, it shall be restored as follows:

Backfilling shall consist of NYSDOT Item 304.05 Type 4 gravel placed manually to a point one foot above the top of pipes and thoroughly tamped by use of shovels or similar implements, and brought up evenly on both sides of the pipe. This same gravel material shall be used to the underside of the Base Course Asphalt Concrete and shall be placed and mechanically compacted in 6 inch layers.

All trench backfill shall be compacted to a minimum dry density of 100 percent of the maximum density. Maximum density is defined as the maximum dry weight density, in pounds per cubic foot, as determined by AASHTO Designation T-99, Method C.

As soon as the trench is backfilled, temporary pavement consisting of a 3 inch depth cold-mix asphaltic concrete shall be placed and compacted to grade. Such repairs shall be maintained even with pavement surface until backfill has settled sufficiently to permit restoration of pavement surface. Minimum settling time shall be 30 days.

3.4 BITUMINOUS PAVEMENT REPLACEMENT

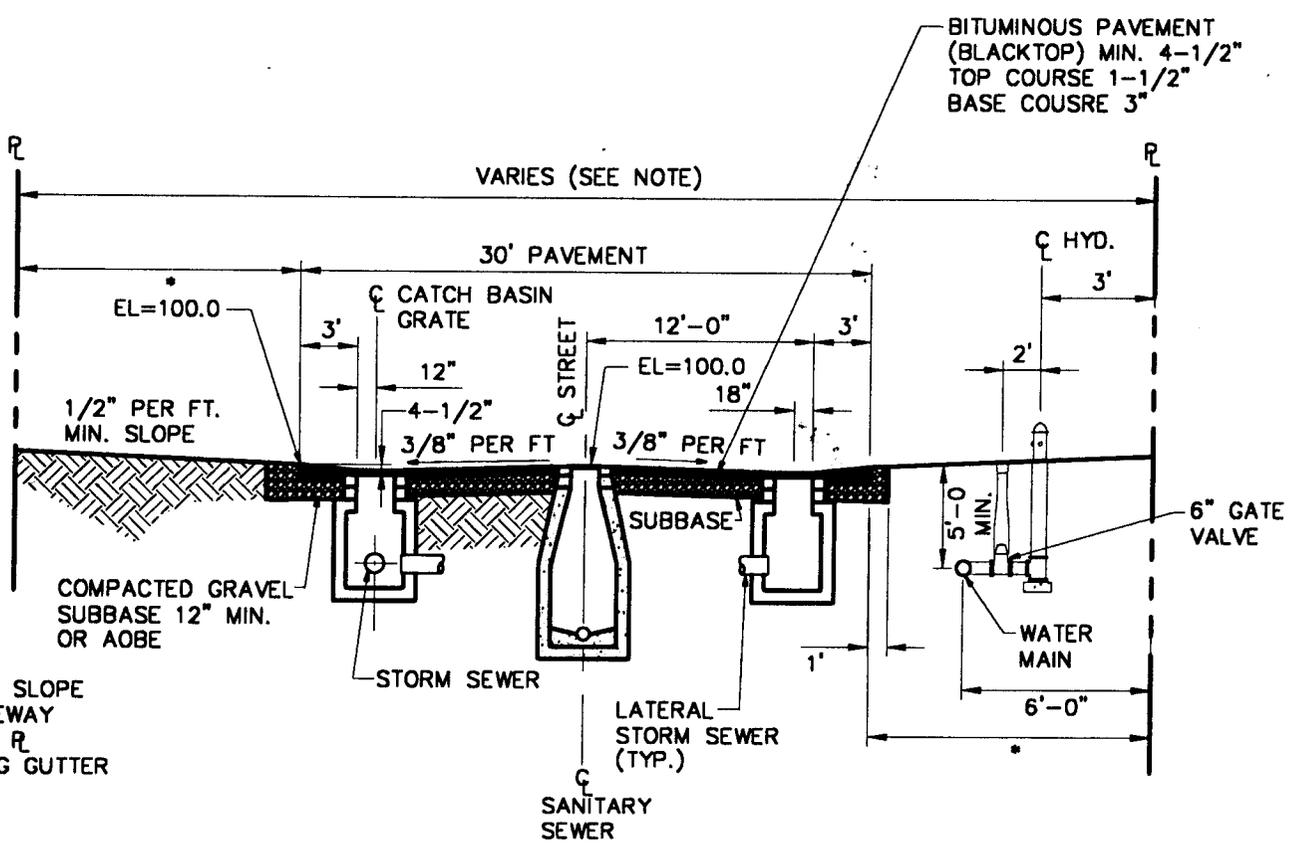
Where trench excavation is in paved areas of streets, construction of a hot-mix bituminous concrete, laid to conform to the original grade and cross-section, shall be required. The grade shall be excavated to the required depth, graded, and rolled to produce a firm foundation. Upon this prepared base, a 12 inch foundation course of acceptable gravel shall be deposited in a uniform layer, and rolled.

Upon this gravel base, a 3 inch layer of hot, plant mixed, asphalt concrete shall be placed, raked, and thoroughly compacted. After compacting, a 2 inch top course of hot, plant-mixed asphalt shall be placed, raked, and rolled so it will conform exactly to the adjoining pavement on both sides of the trench. This top course shall be rolled with a tandem roller weighing from 7 to 10 tons. When compacted, the pavement shall be at the exact surface elevation of the adjoining pavement.

Before replacing pavement, the existing pavement along the sides of the backfilled trench shall be saw cut at least one and one half foot back from each side of the excavation to straight lines generally parallel to the centerline of the trench, or if necessary, at the right angles thereto, to avoid ragged or irregular and unsightly replacement.

The Asphaltic concrete mixture shall be in conformance with Item 403 - Asphaltic Concrete Type 3 Binder Course and Type 7F Top Course of the New York State Department of Transportation specifications, latest version.

On all Town Pavement where cutting is across the line of, or longitudinally in the path of traffic, temporary pavement consisting of a 3 inch depth of cold-mix or asphaltic concrete shall be placed as soon as backfilling is completed. Such repairs shall be maintained by the Contractor flush with the adjacent pavement surface until the backfill has settled sufficiently to permit permanent restoration of the pavement surface. Minimum settling time shall be 30 days.



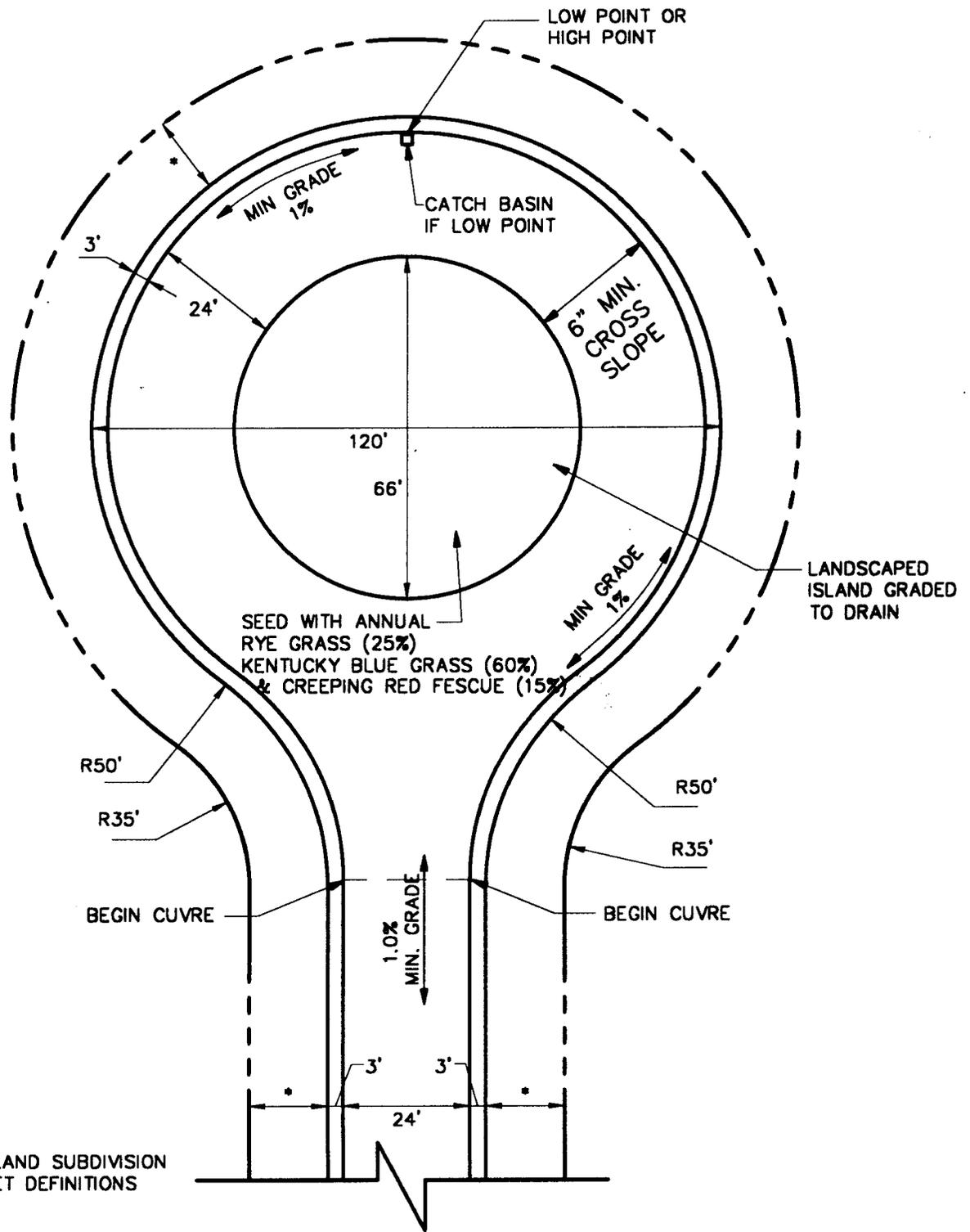
TYPICAL STREET SECTION
NTS

NOTES:
SEE NEW SCOTLAND SUBDIVISION
LAW FOR STREET DEFINITIONS

- FOR PRIMARY STREET - 18'
- FOR SECONDARY STREET - 15'
- FOR LOCAL STREET - 10'
- FOR MARGINAL ACCESS STREET - 10'

Date:	7/19/01
Scale:	AS SHOWN
Field:	
Dsn. By:	
Drawn By:	J.W.E.
Chk. By:	

TOWN OF NEW SCOTLAND
HIGHWAY CROSS SECTION
DETAIL
ALBANY COUNTY NEW YORK



NOTES:
SEE NEW SCOTLAND SUBDIVISION
LAW FOR STREET DEFINITIONS

- * FOR PRIMARY STREET - 18'
- FOR SECONDARY STREET - 15'
- FOR LOCAL STREET - 10'
- FOR MARGINAL ACCESS STREET - 10'

Date: 7/19/01
Scale: NTS
Field:
Dsn. By:
Drawn By: J.W.E.
Chk. By:

TOWN OF NEW SCOTLAND
HIGHWAY CUL-DE-SAC
DETAIL
ALBANY COUNTY NEW YORK