

DEPARTMENT OF STATE
DIVISION OF PROFESSIONAL REGULATION
2700 Board of Professional Land Surveyors
Statutory Authority: 24 Delaware Code, Section 2706 (24 **Del.C.** §2706(a))
24 DE Admin. Code 2700

FINAL

2700 Board of Registration for Professional Land Surveyors

ORDER

Introduction

The Delaware Board of Professional Land Surveyors ("Board"), in accordance with 24 **Delaware Code** Section 2706(a), proposed revisions to its rules and regulations which describe minimum technical standards for licensees.

The Board published a notice for a public hearing regarding such proposed changes, which included the proposed revisions as they would appear if adopted, at 13 Delaware Register 244.

This public hearing was held September 17, 2009 at the Cannon Building, 861 Silver Lake Boulevard, Dover, Delaware.

Following extensive commentary at that hearing, and Board discussion thereafter, the Board subsequently decided to continue its deliberations. These continued deliberations led to another public hearing regarding additional proposed changes to these regulations, held pursuant to duly published notice, on August 24, 2010 (14 DE Register 102).

Thereafter, the Board continued its deliberations on the proposed regulations. At its regularly scheduled Board meeting held October 21, 2010, the Board decided to adopt certain changes to these regulations, in the form accompanying this Order.

Summary of the Evidence and Information Submitted

The September 2009 public hearing was well-attended, with speakers describing their support or opposition to the proposed changes, especially with respect to the proposed monument-setting requirement for Mortgage Inspection Plans (now proposed to be referred to as Mortgage Survey Plans. These Plans are used in New Castle County, but are not permitted to be used in Kent and Sussex County under the existing regulations.

Some speakers objected to the proposed requirement to set two corners, while others suggested that all four corners should be set. Others suggested that no corners needed to be set for certain kinds of communities, such as age-restricted developments or townhouses within cities.

At least one commenter suggested that the changes amounted to a restraint of trade on the profession, without a countervailing assurance of additional public safety if enacted. Others expressed their views of the relative costs and benefits of the additional monument-setting procedure.

Several of those commenting also objected to a proposed section relating to accessing surveyors' files to confirm compliance with the PLS regulations. Board members noted the issue, and agreed to alter the regulation to confirm that this would only arise in the context of a specific complaint about compliance.

Additional comments were received relating to the form of a waiver document, which the regulations call for execution whenever these Plans are prepared.

At the August 24, 2010 public hearing, testimony came in from additional witnesses, including two real estate attorneys and several surveyors. The attorneys described their assessment of the likely impact of the proposed regulatory changes on the title insurance companies operating in Delaware, and those with whom they deal. The surveyors' comments also discussed the proposed changes from their perspective on how the new regulations would affect their surveying business.

Findings of Facts

The Board finds that it is appropriate to amend 24 **DE Admin. Code** 2700 regarding minimum technical standards for licensees, in the form described in the attached revisions. These changes take into account the concerns expressed by the speakers at the public hearings, the written comments also received by the Board, and the issues discussed by the Board members during their extensive deliberations over the proposed changes. The Board does not consider any changes agreed to since the second full public hearing to include any substantive alterations in the proposed regulations.

Decision to Amend the Regulations

At its regularly scheduled Board meeting held October 21, 2010, after continued discussion and votes regarding each proposed change in the regulations, the Board concluded that it is appropriate to amend the existing regulations, in the form attached to this Order.

Effective Date of Order

The actions described above were adopted by the Board at its October 21, 2010 meeting. The effective date of this Order shall be ten (10) days from the date this Order is published in the *Delaware Register of Regulations*.

SO ORDERED BOARD OF PROFESSIONAL LAND SURVEYORS

Steven Sellers, Professional Member
Michael Szymanski, Professional Member
James Bielicki, Jr., Professional Member
Laurence McBride, Professional Member
Mary Chvostal, Public Member
Frank Szczuka, Public Member

2700 Board of Registration for Professional Land Surveyors

1.0 General Provisions

- 1.1 Pursuant to 24 **Del.C.** Ch. 27, the Delaware Board of Professional Land Surveyors ("the Board") is authorized to, and has adopted, these Rules and Regulations. The Rules and Regulations are applicable to all Professional Land Surveyors and applicants to the Board.
- 1.2 Information about the Board, including its meeting dates, may be obtained by contacting the Board's Administrative Assistant at the Division of Professional Regulation. Requests to the Board may be directed to the same office or visit our web site at www.dpr.delaware.gov.
- 1.3 The Board's Chair shall preside at all meetings of the Board and shall sign all official documents of the Board. In the Chair's absence, the Board's Vice Chairman shall preside at meetings and perform the duties usually performed by the Chair.
- 1.4 The Board may seek counsel, advice and information from other governmental agencies and such other groups as it deems appropriate.
- 1.5 The Board may establish such subcommittees as it determines appropriate for the fair and efficient processing of the Board's duties.
- 1.6 The Board reserves the right to grant exceptions to the requirements of the Rules and Regulations upon a showing of good cause by the party requesting such exception, provided that the exception is not inconsistent with the requirements of 24 **Del.C.** Ch. 27.
- 1.7 Board members are subject to the provisions applying to "honorary state officials" in the "State Employees', Officers' and Officials' Code of Conduct," found at 29 **Del.C.** Ch. 58.

11 DE Reg. 1664 (06/01/08)

2.0 Definitions

Definitions under Section 2 will be listed in the current "Definitions of Surveying and Associated Terms," published by the American Congress on Surveying and Mapping, except as otherwise provided by Delaware law.

"Combined Office and Field Experience" - is defined as being multi-faceted experience in responsible charge of land surveying projects, performed under the direct supervision of a professional land surveyor in the active practice of land surveying. The office aspect of this experience shall include the technology relevant to civil drafting, mathematical calculations necessary for subdivision, boundary and right-of-way determinations, road, stormwater, sediment and erosion control, and sewer design as well as the interpolation of field-run topographical data and the like. Office experience should also include applied familiarity with land development submittal and approval processes.

Field experience shall include time spent on site in responsible charge of inspection, evaluation, and gathering of relevant survey information. On-site supervision of and responsibility for field crew personnel while in communication and coordination with a professional land surveyor and office staff shall qualify as field experience.

"Direct Supervision" - applies to one duly licensed as a Professional Land Surveyor (PLS) and only a licensee may provide direct supervision. The physical presence of a PLS on every type of surveying project is

not required. There are, however, times when a site visit is necessary to make important decisions involving boundary retracements, property line disputes, etc.

Direct supervision of field crew personnel requires daily contact to determine the need for the presence of a PLS on site. This need would be based upon the type of work to be performed and the professional judgment of the PLS in charge. Should it be determined that a site visit is not warranted, the PLS, at a minimum, should instruct the field crew personnel as to the procedures to be used, the data to be gathered, the maps or plats to be relied upon and the scope of the work to be performed. The PLS shall follow the same minimum requirements when instructing survey office personnel. All assignments performed by survey personnel, both field and office, shall be reviewed and checked by the PLS providing direct supervision.

While it has been argued that a survey crew does not always have to be under the direct supervision of a PLS, only a PLS has the ability to make that determination. It is therefore necessary for the field crew to have daily contact with the PLS so that this decision can be made properly, in order to protect the public.

“Related Science Curriculum” – are those courses of study for which one-third of the required core courses are the same or similar as those required for a Baccalaureate Degree Program in Surveying. These core courses may include but are not limited to Algebra, Trigonometry, Analytical Geometry, Calculus, General Physics and Computer Programming.

Degrees in related fields of study may include but not be limited to Civil Engineering, Mathematics, Physics, Agricultural Engineering, Actuarial Studies, Statistics, Geology and Forestry.

Because requirements for graduation differ from institution to institution, when considering these Related Science Curriculums attention will be given to the specific coursework completed. This examination of completed coursework may allow for greater flexibility of this definition. Section 2708(a).

“Surveying Curriculum” - For the purpose of these regulations, the term "Surveying Curriculum" will mean any approved curriculum for a Baccalaureate Degree in Surveying as it is accepted by the institution bestowing the said degree. This curriculum shall necessarily include but not be limited to courses in Surveying, Advanced Surveying, Legal Principles of Surveying, Data Adjustment, Subdivision Planning and Layout, Route and Construction Surveying, Engineering and Geodetic Astronomy, Topographic Surveying and Cartography and/or those other studies required by the institution where the degree is earned.

Independent study course work (which includes all correspondence, internet and distance-learning study) shall be considered only if those courses have been accepted by an Accreditation Board for Engineering and Technology (ABET) as part of the approved curriculum. Section 2708(a).

11 DE Reg. 1664 (06/01/08)

3.0 Meeting Schedule and Election of Officers

The Board shall meet at least once each quarter of the calendar year. At the first regularly scheduled meeting in the first quarter, the Board will elect from its members a chair, vice-chair, and secretary. Section 2704(b).

4.0 Periodic Review of Application Form

The Application Form for those seeking licensure under 24 **Del.C.** Ch. 27 shall be reviewed every five years. Section 2706 (a)(2).

5.0 Designation of the National Examination

For the required National Examination for licensure under 24 **Del.C.** Ch. 27, the Board adopts the two-part examination developed by the National Council of Examiners for Engineering and Surveying (NCEES), consisting of the Principles and Practice of Surveying Examination and the Fundamentals of Surveying Examination, as amended from time to time (then in effect at time of examination). Section 2706(a)(3).

6.0 Designation of the Drainage Examination/Delaware Law Examination

- 6.1 For the required drainage examination/Delaware law examination the Board adopts the bank of questions developed for this purpose and/or approved for this purpose by a recognized psychometrician or other authority whose services are acquired and approved by the Division of Professional Regulation of the Delaware Department of State. Section 2706(a)(4).

6.2 Exam review procedures.

- 6.2.1 An applicant may review only the questions answered incorrectly.
- 6.2.2 No other materials will be allowed into the room when reviewing the exam.
- 6.2.3 There will be a 30-minute time limit supervised by the Division of Professional Regulation.
- 6.2.4 The fee will be determined by the Division of Professional Regulation.

6.2.5 An applicant cannot review the exam within 90 days prior to the next exam date.

6.2.6 An exam review will be limited to only one review.

7.0 Adoption of Administration and Grading Procedures and Passing Scores for National Examination

The Board adopts the administration and grading procedures and the passing scores adopted by the NCEES for the two-part national examination, described in Section 5.0 of these regulations. Section 2706(a)(5).

8.0 Foreign Credentialing

- 8.1 Any applicant holding a degree from a program outside the United States or its territories must provide the Board with an educational credential evaluation from The Center of the National Council of Examiners of Engineers and Surveyors, its successor, or any other similar agency approved by the Board, demonstrating that their training and degree are equivalent to domestic accredited programs. No application is considered complete until the educational credential evaluation is received by the Board.
- 8.2 Applications will be kept active and on file for two (2) years. If the applicant fails to meet the licensure requirements and/or pass the examination within two (2) years, the application shall be deemed to have expired and the applicant must reapply in the same manner as for initial application, i.e., submits the application, documentation, proper fee, and obtains board approval to be eligible to sit for the examination.
- 8.3 The Board will not review incomplete applications.
- 8.4 All signatures must be original on all forms.
- 8.5 The applicant shall have obtained the passing score on the NCEES Fundamentals of Surveying, NCEES Principles of Surveying and DE State Drainage and Law Examination.

11 DE Reg. 1664 (06/01/08)

9.0 Procedure for Granting Licenses and License Renewals

- 9.1 When an applicant is approved for licensure, the Division of Professional Regulation will send a letter to the applicant advising that person of the prorated license fee. Once the license fee is received by the Division, a license number is issued and mailed to the applicant.
- 9.2 The Division of Professional Regulation will send a renewal notice to the last known address for each licensee at least 30 days prior to renewal. Even if a licensee does not receive a renewal, it is his/her responsibility to renew their license.

6 DE Reg. 271 (9/1/02)

10.0 Continuing Education

- 10.1 Biennium Requirements.
Effective each biennium, as a condition for renewal of a license for the practice of land surveying, a Professional Land Surveyor shall be required to successfully complete 24 hours of professional development within the preceding biennium. Any licensee who completes in excess of 24 hours of professional development within the preceding biennium may NOT have the excess applied to the requirements for the next biennium.
- 10.2 A licensee shall complete at least two (2) hours on ethics and professionalism for each renewal period with no carry-over credit for any biennium renewal period.
- 10.3 Sources of Credit. In reviewing and approving applications for PDHs, the Board shall take into consideration:
 - 10.3.1 Program Content: Courses must cover land surveying topics and must directly contribute to accomplishment of the primary purpose of continuing education, which is to help assure that licensees possess the knowledge, skills and competence necessary to function in a manner that protects and serves the public interest. The knowledge or skills taught must enable licensees to better serve surveying clients and the subject matter must be directly related to the land surveying practice. All educational courses must be approved by the Board.
 - 10.3.2 Instruction: The course must be one that will be conducted by a qualified instructor who will be able to interact directly either in person or by interactive television with all students at all times during the course. The course may be conducted through the use of interactive television or other media which permits continuous mutual communication between the instructor and all students, continuous observation of the instructor by all students, and continuous observation of all students by the instructor. Distance education courses may be acceptable when the sponsor gives the licensee a final exam and sends verification to the Board that the licensee has completed the course with a passing grade.
 - 10.3.2.1 Distance education courses are defined as programs whereby instruction does not take place in a traditional classroom setting but rather through other media where teacher and student are apart.

Distance education may not be utilized with the exceptions of interactive television and verified courses described above.

10.3.3 Examples of topics that are acceptable, but not limited to:

- ALTA/ACSM land title surveys
- GPS (survey related)
- GIS (survey related)
- Delaware land use laws
- Case law
- Boundary laws and regulations
- Research
- Evidence
- Boundary determination
- Unwritten rights
- Conflict resolution; i.e. boundary line agreements
- Adverse possession
- Highway surveys
- Railroad surveys
- Easements and rights of way
- Geodesy
- Highway design/Highway safety
- Surveyor in court/Expert testimony
- State and international boundaries
- Water boundaries
- Technical writing related to deed descriptions and survey reports
- Mathematics and computer applications of land surveying
- Measurement and analysis
- Photogrammetry and aerial photo interpretation
- Survey standards
- Survey instrumentation
- Business management and professional development related to the land surveying practice; i.e. surveying contracts, communicating with clients, good business planning and management, quality assurance
- Ethics and professionalism
- Liability for land surveyors
- Drainage design
- Sediment and erosion control
- First aid/CPR

10.3.4 Serving as a member of a committee or a board or a commission, which has as its primary duty the preparation or grading of written tests which are given for the purpose of determining the proficiency of an applicant for registration, using accepted test development principles, shall be counted as one (1) PDH per hour of attendance.

10.3.5 Attendance at workshops or seminars, which are directly related to land surveying, shall count as one (1) PDH per actual hour of classroom attendance. Such sessions must be planned in advance, a record must be maintained describing the content and a record of attendance must be kept. This may include society meetings in which educational programs are presented.

10.3.6 The active teaching of land surveying at the college level, within the immediate preceding biennium, shall be counted as eight (8) PDHs per year. No more than sixteen (16) PDHs shall be issued for teaching at the college level in any renewal period. CREDIT WILL NOT BE GIVEN TO FULL TIME EDUCATORS.

10.3.7 Teaching a workshop or seminar, which is directly related to land surveying or professional development, shall be counted as two (2) PDHs per actual hour of teaching time, not to include preparation. No more than eighteen (18) PDHs may be claimed in any 2-year period. CREDIT WILL BE GIVEN FOR ONLY ONE PRESENTATION IN A TWO-YEAR PERIOD.

- 10.3.8 College level courses directly related to land surveying or professional development shall be counted as 40 PDH per credit hour. Ten (10) PDHs will be counted for each CEU (continuing education unit) earned.
- 10.3.9 Presentation and/or publication of a professional paper will be counted as 10 PDHs. No more than 20 PDHs may be claimed in any biennium renewal.
- 10.4 Renewal Credit.
- 10.4.1 Each licensee applying for renewal shall attest to satisfying the continuing education requirements outlined in Rule 10.1, 10.2, and 10.3 in the period defined in Section 10.1 of these rules. Attestation may be completed electronically if the renewal is accomplished online. In the alternative, paper renewal documents that contain the attestation of completion can be submitted.
- 10.4.2 Licensees should retain their PDH files and records for at least five (5) years.
- 10.5 Pro-Rated Credits for Renewal. A licensee for renewal shall follow the following schedule of reporting PDH credits: if, at the time of renewal, you have been licensed for less than one year, NO continuing education is required; licensed for more than one year, but less than two years, half (12 PDHs) is required; licensed for two or more years, the full amount (24 PDHs) is required.
- 10.6 Renewal. Any licensee who has submitted a correctly completed paper or electronic renewal form as required in Section 10.4.1 and has met all other requirements shall be granted renewal.
- 10.7 Audit. Each biennium, the Division of Professional Regulation shall select from the list of potential renewal licensees a percentage, determined by the Board, which shall be selected by random method. The Board may also audit based on complaints or charges against an individual license, relative to compliance with continuing education requirements.
- 10.8 Documentation and Audit by the Board. When a licensee whose name or number appears on the audit list applies for renewal, the Board shall obtain documentation from the licensee showing detailed accounting of the various PDHs claimed by the licensee. Licensees selected for random audit are required to supplement the attestation with attendance verification. The Board shall attempt to verify the PDHs shown on the documentation provided by the licensee. The Board shall then review the documentation and verification. Upon completion of the review, the Board shall decide whether the licensee's PDHs meet the requirements of these rules and regulations. The licensee shall sign and seal all verification documentation with a Board approved seal.
- 10.9 Board Review. The Board shall review all documentation requested of any licensee shown on the audit list. If the Board determines the licensee has met the requirements, the licensee's certificate of registration shall remain in effect. If the Board initially determines the licensee has not met the requirements, the licensee shall be notified and a hearing may be held pursuant to the Administrative Procedures Act. This hearing will be conducted to determine if there are any extenuating circumstances justifying the apparent noncompliance with these requirements. Unjustified noncompliance of these regulations shall be considered misconduct in the practice of land surveying, pursuant to 24 Del.C. §2712. The minimum penalty for unjustified noncompliance shall be a letter of reprimand and a \$250.00 fine.
- 10.10 Noncompliance – Extenuating Circumstances. A licensee applying for renewal may request an extension and be given up to an additional twelve (12) months to make up all outstanding required PDHs providing he/she can show good cause why he/she was unable to comply with such requirements at the same time he/she applies for renewal. The licensee must state the reason for such extension along with whatever documentation he/she feels is relevant. The Board shall consider requests such as extensive travel outside the United States, military service, extended illness of the licensee or his/her immediate family, or a death in the immediate family of the licensee. The written request for extension must accompany the renewal application. The Board shall issue an extension when it determines that one or more of these criteria have been met or if circumstances beyond the control of the licensee have rendered it impossible for the licensee to obtain the required PDHs. A licensee who has successfully applied for an extension under this paragraph shall make up all outstanding hours of professional development within the extension period approved by the Board.
- 10.11 Appeal. Any licensee denied renewal pursuant to these rules and regulations may contest such ruling by filing an appeal pursuant to the Administrative Procedures Act.
- 10.12 Retired Licensees. Licensees 62 years old and over who are retired (working less than 20 hours weekly) shall need only twelve (12) PDHs, including one ethics PDH, each biennium to satisfy the professional development requirements outlined herein.
- 10.13 Multiple State Licensees. Any licensee, who is not a Delaware resident and resides in another state or commonwealth, and is licensed in that state or commonwealth having a comparable continuing education requirement, shall not be required to satisfy these requirements in addition to those of his/her home state, but will satisfy these requirements as a minimum. Any questions regarding compliance with this Section shall be resolved by the Board.

11.0 Investigations and Designation of Board Member for Contact with Division of Professional Regulation

Upon notice to the Board that a disciplinary investigation of a licensee is underway by the Division of Professional Regulation, the Board shall designate a Board member to assist the investigator. Whenever feasible, the Board member designated for this purpose should not reside in the county where the licensee under investigation resides or maintains his or her dominant area of practice. Section 2706(a)(10).

12.0 Minimum Technical Standards for Licences

- 12.1 The Board is required under Sections 2701 and 2112(a)(9) to establish minimum technical standards for licensees. The purpose of these standards is to establish minimum technical criteria to govern the performance of surveys when more stringent specifications are not required by other agencies or by contract. Further, the purpose is to protect the inhabitants of this state and generally to promote the public welfare. The Board also established minimum standards for Mortgage ~~Inspection~~ Survey Plans (~~MIPs~~) (MSPs), and other types of work, frequently performed by licensees in portions of the state.
- 12.2 Procedure and Standards. Whenever a surveyor conducts a boundary survey, ~~or an improvement location survey of properties,~~ or an ALTA/ACSM Land Title Survey, or Subdivision Survey, a plat showing the results shall be prepared. An ALTA/ACSM Land Title Survey shall be titled in accordance to the current published ALTA/ACSM standard. A Subdivision Survey shall be titled as required by the governing regulatory agency. The plat of a boundary survey shall be titled "Boundary Survey Plan"; no other plat title is acceptable. A copy of the survey shall be furnished to the client unless deemed unnecessary by the client. The plat shall conform to the following requirements and shall include the following information:
 - 12.2.1 The plat shall be drawn on any reasonably stable and durable drawing paper, vellum or film of reproducible quality. No plat or map shall have dimensions of less than 8 ½ x 11 inches.
 - 12.2.2 The plat shall indicate the Source of Title, (Deed Record and/or Will Record Number), Hundred, County, State, Tax Parcel Number and, when applicable, the Postal Address of the subject property. The plat shall show the written scale, area and classifications of the survey. These classifications (suburban, urban, rural, and marshland) are based upon both the purposes for which the property is being used at the time the survey is performed and any proposed developments, which are disclosed by the client, in writing. This classification must be based on the criteria in Section 12.4 and the survey must meet the minimum specifications set forth in Attachment A. The scale shall be sufficient to show detail for the appropriate classification.
 - 12.2.3 The horizontal direction of all boundary lines shall be shown in relationship to grid north, magnetic, or in lieu thereof, to true north or to such other established line or lines to which the survey is referenced. The horizontal direction of the boundary lines shall be by direct angles or bearings. A prominent north arrow shall be drawn on every sheet. The description of the bearing reference system shall be stated on the plat. Bearings shall be written in a clockwise direction unless impractical.
 - 12.2.4 All monuments, natural and artificial (man-made), found or set, used in the survey, shall be shown and described on the survey plat. The monuments shall be noted as found or set. All monuments set shall be ferrous metal, or contain ferrous metal, not less than ½ inch in diameter and not less than 18 inches in length, except however, a corner which falls upon solid rock, concrete, or other like materials shall be marked in a permanent manner and clearly identified on the plat. Monuments shall be set at all corners of all surveys as required by these standards, with the exception of meanders such as meanders of streams, tidelands, wetlands, lakes, swamps and prescriptive road rights-of-way. Witness monuments shall be set or referenced whenever a corner monument cannot be set or is likely to be disturbed. Such witness monument shall be set as close as practical to the true corner. If only one (1) witness monument is set, it must be set on the actual boundary line or prolongation thereof. Otherwise, at least two (2) witness monuments shall be set and so noted on the plat of the survey. Monuments shall be identified, where possible, with a durable marker bearing the firm name or the surveyor's registration number and/or name.
 - 12.2.5 The plat of a metes and boundary survey must clearly describe the commencing point and label the point of beginning for the survey.
 - 12.2.6 Notable discrepancies between the survey and the recorded description shall be noted. The source of title used in making the survey shall be indicated. When an inconsistency is found, including a gap or overlap, excess or deficiency, erroneously located boundary lines or monuments, the nature of the inconsistency shall be indicated on the drawing.

- 12.2.7 In the judgment of the surveyor, the description and location of any physical evidence found along a boundary line, including but not limited to fences, walls, buildings or monuments, shall be shown on the drawing.
- 12.2.8 The horizontal length (distance) and direction (bearing) of each line as determined in an actual survey process shall be shown on the drawing and indicated in a clockwise direction unless impractical.
- 12.2.9 The radius, arc length, chord bearing and chord distance of all circular curves, shall be shown.
- 12.2.10 Information used by the surveyor in the property description shall be clearly shown on the plat, including but not limited to, the point of beginning, course bearing, distance, monuments, etc.
- 12.2.11 The lot and block or tract number or other recorded subdivision designation, of the subject property and adjoining properties shall be shown. If the adjoining properties are not within a recorded subdivision, then the name and deed record of all adjoining owners shall be shown.
- 12.2.12 Recorded public and private rights-of-way or easements which are discovered during the title search performed by others and supplied to the surveyor or graphically shown on the recorded plat, which includes the property, or which are known or observed adjoining or crossing the land surveyed, shall be shown. **[When no recorded rights-of-way or easements are provided, it shall be so noted on the plan.]**
- 12.2.13 Location of all permanent improvements pertinent to the survey, referenced radially and perpendicular to the nearest boundary, shall be shown.
- 12.2.14 Visible or suspected encroachments onto or from adjoining property or abutting streets, with the extent of such encroachments, shall be shown.
- 12.2.15 A plat or survey shall clearly bear the Firm Name and licensee's name, license number, title, "Professional Land Surveyor", contact address, and date of survey and original signature and board-approved seal of the licensed surveyor in responsible charge. This signature and seal is certification that the survey meets minimum requirements of the Standards for Land Surveyors as adopted by the Delaware Board.
- 12.2.16 A written property description shall accompany the preparation of a boundary survey, ALTA/ACSM Land Title Survey, and Subdivision Survey. **[A property description shall not be prepared based upon a Mortgage Survey Plan.]** A written property description is not required when there are no changes to the property description used as a basis for said surveys. When preparing a property description in conjunction with a Mortgage Survey Plan, said description shall be based upon and refer to the record plat and not the Mortgage Survey Plan. The following information shown on the plat must be included in a written description, if one is provided:
- 12.2.16.1 The commencing point and point of beginning.
 - 12.2.16.2 Sufficient caption to connect the plat and description.
 - 12.2.16.3 Length and direction of all lines in a clockwise direction unless impractical.
 - 12.2.16.4 Curve information as described in paragraph 12.2.9.
 - 12.2.16.5 Type of monuments noted as found or set.
 - 12.2.16.6 The area of the parcel.
 - 12.2.16.7 Adjoining owners, subdivision name, etc.
- 12.2.17 For a Major Subdivision Survey, the boundary corners of the **["Parent"]** property that is the subject of the subdivision shall be set and/or identified in accordance to Section 12.2.4. For a Minor Subdivision Survey, a minimum of two boundary corners of the property that is the subject of the subdivision shall be set and/or identified and their interconnection duly noted. Additionally, for a Minor Subdivision Survey, the connection between said boundary corners and the boundary of the "carved-out" property shall be noted; and, the boundary corners of said "carved-out" property shall be set and/or identified in accordance with Section 12.2.4. **[For an ALTA/ACSM Land Title Survey, all boundary corners of the subject property shall be set and/or identified in accordance to Section 12.2.4.]**

12.3 Standards for Horizontal Control.

- 12.3.1 Definitions for specific types of horizontal control surveys, along with standards and procedures, may be found in National Geodetic Survey (NGS) or successor publications. All geodetic surveys, including determination and publication of horizontal and vertical values utilizing Global Positioning Systems, Ground Control Systems or any other system which relates to the practice and profession of Land Surveying, shall be performed under the direct control and personal supervision of a licensed Professional Land Surveyor licensed in the State of Delaware.
- 12.3.2 Control Surveys that are used to determine boundary lines, including developing coordinates for existing boundary corners, shall meet the Standards contained herein.

- 12.3.3 Land Information Systems/Geographic Information Systems (LIS/GIS) maps should be built on a foundation of coordinates obtained by an accurate survey. Creation of LIS/GIS maps and services should include a Professional Land Surveyor licensed in the State of Delaware for coordination and input of their knowledge in these fields.
- 12.4 Classification of Surveys. (See Attachment A)
- 12.4.1 Urban Surveys - Surveys of land lying within or adjoining a city or town. This would also include the surveys of commercial and industrial properties, condominiums, townhouses, apartments and other high-density developments regardless of geographic location.
- 12.4.2 Suburban Surveys - Surveys of land lying outside urban areas. This land is used almost exclusively for single family residential use or residential subdivisions.
- 12.4.3 Rural Surveys - Surveys of land such as farms and other undeveloped land outside the suburban areas which may have a potential for future development.
- 12.4.4 Marshland Surveys - Surveys of land which normally lie in remote areas with difficult terrain and usually have limited potential for development and cannot be classified as urban, suburban or rural surveys. This includes, but is not limited to, surveys of farmlands and rural areas.
- 12.5 ALTA/ACSM Land Title Survey. The current published standard as amended from time to time.
- 12.6 ~~Mortgage Inspection Survey Plan (MIP)~~ MSP
- 12.6.1 Purpose. The purpose of ~~an MIP~~ an MSP is to locate, describe and represent the positions of buildings ~~or~~ and other pertinent visible improvements, or both, affecting the property being ~~inspected~~ surveyed **[in connection with a conveyance or a mortgage]**.
- 12.6.2 Product. The results of the ~~MIP~~ MSP shall be stated on a plat showing the property ~~inspected~~ surveyed and the location of the buildings ~~or~~ and other pertinent visible improvements affecting the ~~inspected~~ surveyed property. The plat shall be titled "Mortgage Survey Plan"; no other plan title is acceptable.
- 12.7 The ~~Approval Waiver~~ by the ~~Consumer~~ Ultimate User and Disclosures.
- 12.7.1 The surveyor shall not ~~begin work for compensation~~ prepare a MSP pursuant to this regulation until the surveyor receives a signed ~~approval form~~ waiver more particularly described below.
- 12.7.2 For purposes of this section, "ultimate user" means the contract purchaser of the property. If no purchaser exists, the ultimate user is the owner of the property. The approval form or its equivalent waiver shall be sufficient if signed by one consumer ultimate user, whether or not there are multiple consumers, or, if a consumer is not an individual, the consumer's duly authorized agent, with respect to the property for which services pursuant to this regulation are sought ultimate users. The approval form waiver shall at a minimum contain:
- 12.7.2.1 An approval by the signer of the requested services ultimate user to perform a MSP and to waive the right to have corner markers set; and
- 12.7.2.2 An explanation of the differences between an MIP and a boundary survey which includes an improvement location drawing impact of signing the waiver advising the ultimate user of the possible need for a future survey as a result of physical improvements of the property and the potential inability of the ultimate user to identify the boundary of the surveyed property.
- 12.7.2.3 The waiver shall be in the following approval form or its equivalent shall suffice for the purpose of complying with this regulation:
- "Waiver Not to Set Corner Markers and Approval Form (on company letterhead, with name, address and telephone number) to Perform a MSP Survey"
- To: _____
(Name, address, and telephone number of Land Surveyor)
- From: _____
(Name, address, and telephone number of Ultimate User)
- Re: _____
Property (Appropriate Identifier; i.e. address, tax parcel number)

In connection with the purchase or refinancing survey of the property located at _____, we I have waived having [all] the corner markers set and have been requested to prepare an MIP the preparation of a Mortgage Survey Plan (MSP).

Since I have been made aware that an MIP Mortgage Survey Plan (MSP) is not a boundary survey and does not identify property boundary lines. State regulations require us to have your approval. Therefore, please sign and return the original of this form promptly, by fax or mail, so that there will be no delay in settlement [and the cost of a Boundary survey may differ from that charged for an MSP. I am also aware that there may be a cost difference between the

MSO and boundary survey.] Additionally, I have been advised of the impact of signing the waiver regarding the possible need for a future survey as a result of physical improvements of the property and my inability to identify the boundary of the surveyed property. Furthermore, I am aware that the inability to identify the boundary of the property may result in a boundary dispute with an adjoining property owner and/or property improvements not accurately situated on my property.

If you wish, we can perform a boundary survey, which includes an Improvement Location Drawing (ILD). This survey will identify property boundary lines and will mark property boundary corners.

An MIP will cost approximately \$ _____. A boundary survey which includes an ILD will cost (approximately \$ _____) (between \$ _____ and \$ _____).

Very truly yours,

Check appropriate lines:

_____ We approve the preparation of an MIP. We have read and understand that, in the absence of any problem revealed by or during the preparation of this drawing, it may be all that is required of the land surveyor.

_____ We request a boundary survey that will include an ILD, and will identify property boundary lines and mark property boundary corners.

_____ (Signature of Ultimate User)

_____ (Signature of Witness)

I hereby certify that by virtue of the signature of the ultimate user on this waiver that the ultimate user is aware of the potential impact of not having corner markers set, and that I have prepared a Mortgage Survey Plan (MSP) in compliance with Section 12.0 Minimum Technical Standards for Licensees as set forth by the Delaware Board of Professional Land Surveyors

_____ Delaware Professional Land Surveyor

License Number: _____

Date: _____

12.7.2.4 The following notation shall be noted on a MSP when a written waiver is obtained: "In accordance to the Delaware Board of Professional Land Surveyors' Regulation 12.7, a waiver not to set corner markers has been obtained".

12.7.2.5 The licensee shall maintain the signed corner marker waiver or a retrievable scanned copy of said waiver for a minimum of six years from date of ultimate user's signature.

12.7.2.6 The licensee shall submit to the Board [documentation of] a waiver [of a specified property upon the Board's request] in connection with a complaint [filed with respect to involving] said property.

12.7.2.7 [The Board may periodically review a licensee's records to determine compliance with this section.] Failure to comply with the provision of this section shall be deemed professional misconduct subject to an appropriate penalty.

12.7.3 Upon receipt of an approval form, which complies with this section, the surveyor shall perform the services approved by the consumer. If the consumer requests a boundary survey which includes an ILD, then the survey shall be consistent with the provisions set forth in The Minimum Model Standards adopted by the Board.

12.8 Minimum Procedures for Performing a MSP. If the consumer approves ultimate user waives setting corner markers and [opts for agrees to] the preparation of an MIP MSP, the surveyor shall perform at least the following procedures:

12.8.1 Examine the current deed and/or plat appropriate documents of record for the subject parcel and review the most current tax assessment map for inconsistencies with deed or plat said documents. The surveyor is required to check for mathematical closure of said documents. If said documents do not close mathematically, the surveyor will determine, based upon his professional judgement, if a boundary survey is warranted.

12.8.2 Take sufficient on-site measurements to enable the surveyor to perform the tasks called for by this regulation with regard to the:

12.8.2.1 Locations relative to the property lines being surveyed of buildings and these other pertinent improvements pertinent to the MIP;

12.8.2.2 Locations of possible encroachments relative to the property lines being surveyed reasonably determined ~~based on a~~ by visual inspection;

12.8.2.3 Easements; and

12.8.2.4 Rights-of-way.

12.8.3 If the ~~consumer~~ ultimate user has approved an ~~MIP~~ MSP, then the following elements shall be shown:

12.8.3.1 Significant buildings, structures and other pertinent improvements, and their relationship to the ~~apparent~~ property lines referenced radially and/or perpendicular to the nearest boundary, based on the field measurements taken by the surveyor, and any other boundary evidence considered by the surveyor;

12.8.3.2 Statement with regard to the ~~level of accuracy and accuracy of apparent setback distances~~ Classification of Survey; (REFER TO ATTACHMENT A)

12.8.3.3 Possible encroachments on the subject property and from the subject property onto adjoining property located relative to the property lines being surveyed to the extent reasonably determined by a visual inspection of the property ~~ies either way across property lines~~; and

12.8.3.4 Minimum setback lines, as shown on plats,

12.8.3.5 A minimum of two ~~control points~~ described boundary corners of the subject property, either found or set, and their relationship denoted by appropriate courses and distances to each other ~~and the subject property.~~ **[and the subject property. Two described boundary corners of the subject property are not required when the subject property is part of a townhouse (row house) community constructed prior to 1980, or a community designated as "55 or over", or a condominium community. A subject property within said communities will require a minimum of two described boundary control points, either found or set, and their relationship denoted by appropriate courses and distances to each other and the subject property.]**

12.8.3.6 Easements or rights-of-way as shown on ~~plats or current deed of record~~ the aforementioned documents of record for subject property.

12.8.4 If, in connection with the preparation of an ~~MIP~~ MSP, a surveyor finds evidence to warrant, in the surveyor's professional opinion, the performance of a boundary survey, the surveyor shall so notify, in writing, the ~~consumer~~ ultimate user or the ~~consumer's ultimate user's~~ representative.

12.8.5 If the ~~consumer~~ ultimate user has approved the preparation of an ~~MIP~~ MSP, then:

12.8.5.1 The ~~MIP~~ MSP prepared by the surveyor shall prominently display, at a minimum, advice to the effect that:

12.8.5.1.1 The ~~MIP~~ MSP is of benefit to a ~~consumer~~ ultimate user only insofar as it is required by a lender, a title insurance company or its agent in connection with the contemplated transfer, financing, or refinancing of subject property; and

12.8.5.1.2 The ~~MIP~~ MSP is not to be relied upon for ~~the establishment or location of fences, garages, buildings or other existing or future improvements.~~

12.9 Plats.

12.9.1 The original plat of an ~~MIP~~ MSP shall be a reproducible drawing at a scale which clearly shows the results of the field work, computations, research and record information as compiled and checked and shall bear the title "Mortgage Survey Plan".

12.9.2 The plat shall be prepared in accordance with the following procedures:

12.9.2.1 A reasonably stable and durable drawing paper, linen or film is considered a suitable material;

12.9.2.2 Plats may not be smaller than 8 ½ x 11 inches;

12.9.2.3 The plat shall show the following:

12.9.2.3.1 Caption or title and address ~~or~~ (if applicable) and subdivision lot number of the property (if applicable),

12.9.2.3.2 Scale,

12.9.2.3.3 Date,

12.9.2.3.4 Name and address of the firm or surveyor; and

12.9.2.3.5 Original signature and board-approved seal of the licensed surveyor in responsible charge,

12.9.2.3.6 ~~Consumer's Ultimate User's~~ name,

12.9.2.3.7 Statement with regard to the ~~level of accuracy and accuracy of apparent setback distances~~ Classification of Survey; (REFER TO ATTACHMENT A)

12.10 Maintenance of Records.

12.10.1 The surveyor shall make a reasonable effort to maintain records, including names or initials of all personnel, date of performance, reference to field data, such as book number, loose leaf pages and other relevant data.

12.11 Local Standards.

12.11.1 All work shall be performed according to the minimum standards for the community in which the service is provided, as long as said standards meet or exceed the standards herein. (4) Current local standards shall take precedence over the ~~MIP MSP~~ as to the manner in which mortgage or deed-related surveys or plans are prepared and as to the manner of field work and staking related to these surveys or plans, if those standards require more detailed or more accurate work to meet those local standards.

12.12 Based on current information, the ~~MIP MSP~~ shall be accepted as a minimum standard only in New Castle County when requested by the ultimate user as an option to a boundary survey. In Kent and Sussex counties, ~~MIP's MSP's~~ shall not be considered to meet the minimum local standards for the work required for mortgage or deed-related surveys or plans. For mortgage and deed-related surveys or plans in Kent County and Sussex County, the minimum requirement is an Improvement Location Drawing a Boundary Survey Plan prepared in compliance with Regulation 12.0 which includes proper monument placement.

12.12.1 Electronically Transmitted Documents. Documents including drawings, specifications and reports, that are transmitted electronically to a client or a governmental agency shall have the computer-generated seal removed from the original file, unless signed with a digital signature as defined in 12.12.2. After removal of the seal the electronic media shall have the following inserted in lieu of the signature and date: This document originally issued and sealed by (Name of sealer), containing the original seal, signature and date of the licensee may be duplicated by photocopy or electronic scanning processes and distributed either in hardcopy or electronic medium. The scanned digital files of properly certified documents are not subject to the requirements of this paragraph. The electronic submission of CAD, vector or other files subject to easy editing are subject to the requirements of this paragraph. Easy editing is based on the file consisting of separate elements that can be individually modified or deleted.

12.12.2 Documents to be electronically transmitted that are signed using a digital signature, shall contain the authentication procedure in a secure mode and a list of the hardware, software and parameters used to prepare the document(s). Secure mode means that the authentication procedure has protective measures to prevent alteration or overriding of the authentication procedure. The term "digital signature" shall be an electronic authentication process that is attached to or logically associated with an electronic document. The digital signature shall be:

12.12.2.1 Unique to the licensee using it;

12.12.2.2 Capable of verification;

12.12.2.3 Under the sole control of the licensee; and

12.12.2.4 Linked to a document in such a manner that the digital signature is invalidated if any data in the document is changed.

12.12.3 Electronic formats must be approved by the board and must meet all criteria set forth in 12.2.1 and 12.2.2.

7 DE Reg. 918 (01/01/04)

11 DE Reg. 1664 (06/01/08)

13.0 Professional Conduct - Code of Ethics

13.1 Foreword. Honesty, justice and courtesy form a moral philosophy which, associated with mutual interest among men and women, constitutes the foundation of ethics. The surveyor should recognize such a standard, not in a passive observance, but as a set of dynamic principles guiding his/her conduct and way of life. It is his/her duty to practice his/her profession according to this Code of Ethics.

As the keystone of professional conduct is integrity, the surveyor will discharge his/her duties with fidelity to the public, his/her employers and clients, and with fairness and impartiality to all. It is his/her duty to interest his/herself in the public welfare, and to be ready to apply his/her special knowledge for the benefit of mankind. He/she should uphold the honor and dignity of his/her profession and avoid association with any enterprise of questionable character. In his/her dealings with fellow surveyors he/she should be fair and tolerant.

13.2 Professional Life.

13.2.1 The surveyor will cooperate in extending the effectiveness of the surveying profession by interchanging information and experience with other surveyors and students and by contributing to the work of surveying societies and associations, schools and the scientific and surveying press.

13.2.2 It shall be considered unprofessional and inconsistent with honorable and dignified bearing for any surveyor to advertise his/her work in a false or deceptive manner that may mislead the public.

- 13.2.3 The surveyor will avoid all conduct or practice likely to discredit or do injury to the dignity and honor of his/her profession.
- 13.2.4 Because superior and distinct knowledge of surveying is essential to the profession, it is imperative for the surveyor to continue his/her education.
- 13.2.5 The surveyor shall not permit the use of his/her professional seal on any work over which he/she was not in responsible charge and/or direct supervision.
- 13.3 Relations With The Public.
 - 13.3.1 The surveyor will endeavor to extend public knowledge of surveying and will discourage the spreading of untrue, unfair and exaggerated statements regarding surveying.
 - 13.3.2 He/she will have due regard for the safety of life and health of public and employees who may be affected by the work for which he/she is responsible.
 - 13.3.3 He/she will express an opinion only when it is founded on adequate knowledge and honest conviction while he/she is serving as a witness before a court, commission or other tribunal.
- 13.4 Relations With Clients and Employers.
 - 13.4.1 The surveyor will act in fairness and in a professional manner toward each client or employer and produce a quality survey regardless of price.
 - 13.4.2 He/she will engage, or advise his/her client or employer to engage, and he/she will cooperate with, other experts and specialists whenever the client's or employer's interests are best served by such service.
 - 13.4.3 He/she will disclose no information concerning the business affairs or technical processes and data of clients or employers without their consent.
 - 13.4.4 He/she will not undertake work which he/she believes will not be successful without first advising his/her client of his/her opinion.
 - 13.4.5 He/she will promptly disclose to his/her client or employer any interest in a business which may compete with or affect the business of his/her client or employer. He/she will not allow an interest in any business to affect his/her decision regarding surveying work for which he/she is employed, or which he/she may be called upon to perform.
 - 13.4.6 An employed surveyor will not solicit or accept other employment to the detriment of his/her regular work or the interests of his/her employer.
- 13.5 Relations With Surveyors.
 - 13.5.1 The surveyor will see that those licensed to survey are properly qualified by character, ability and training and those who prove unworthy of their privileges are disciplined.
 - 13.5.2 He/she will uphold the principle of appropriate and adequate compensation for those engaged in surveying work, including those in subordinate capacities, as being in the public interest and maintaining the standards of the profession.
 - 13.5.3 He/she will endeavor to provide opportunity for the professional development and advancement of surveyors in his/her employ.
 - 13.5.4 He/she will not directly or indirectly injure the professional reputation, prospects or practice of another surveyor. However, if he/she discovers an error or disagrees with the work of another surveyor, it is the duty of that surveyor to inform the other surveyor of such fact.
 - 13.5.5 He/she will not review the work of another surveyor for the same client, except with the knowledge or consent of such surveyor or unless the connection of such surveyor with the work has been terminated.
 - 13.5.6 He/she will not compete with another surveyor on the basis of charges by reducing his/her normal fees after having been informed of the charges named by the other, or undertake any work at a price that will not permit a satisfactory professional performance. Any offer of professional service should be on the basis of his/her regular fees.
 - 13.5.7 He/she will not use the advantages of a salaried position (public or private) to compete unfairly with another surveyor, or use the advantages of instruments and office facilities (public or private) to compete with other surveyors without charging for such instruments and facilities at current rates.
 - 13.5.8 He/she will not attempt to practice in any field of surveying in which he/she is not proficient. He/she should call in special consulting services to supplement his/her own experience and that of his/her organization on problems outside of their usual field.

11 DE Reg. 1664 (06/01/08)

14.0 Criminal History Reviews of Licensee Applicants

Part of the licensure process for applicants under 24 Del.C. Ch. 27 includes a requirement that the applicant not have a criminal conviction record, nor pending criminal charges relating to an offense, the circumstances of

which substantially relate to the practice of land surveying. The Board shall review the information provided on the Application Form relating to this issue to determine if the applicant's criminal history record is substantially related to the practice of land surveying. Section 2708(a)(6).

15.0 Reciprocity Eligibility

- 15.1 **24 Del.C.** §2709 requires the Board to grant reciprocal licenses to applicants presenting proof of current licensure in good standing in another state, the District of Columbia, or territory of the United States, whose standards for licensure are "substantially similar" to Delaware standards.
- 15.2 All states that are contiguous to Delaware are considered to have "substantially similar" standards to the Delaware standards. In determining whether other jurisdiction's standards are substantially similar, the Board will consider the evidence presented by the applicant intended to show this similarity.

16.0 Renewal of Lapsed Licenses

A licensee may renew a license that has lapsed after the renewal date, by payment of the late fee penalty and proof of the required PDHs to the Division of Professional Regulation, if the licensee files for renewal within six (6) months of the most recent renewal date. Section 2711.

11 DE Reg. 1664 (06/01/08)

17.0 Replacement of Lost, Destroyed or Mutilated Licenses

Lost, destroyed, or mutilated licenses may be replaced by payment of the appropriate fee to the Division of Professional Regulation. Section 2716(c).

18.0 Professional Seals, Rubber Stamps and Signatures

- 18.1 A raised seal shall be used wherever possible.
- 18.2 When a raised seal cannot be used, a rubber seal may be used, but only with red ink so that the lettering will stand out.
- 18.3 The signature must be originally hand written.
- 18.4 The seal to be used by a Delaware licensee shall conform to the above regulation and have two concentric circles. The inner circle shall contain only the words "REGISTERED," "NO.," and "DELAWARE." The area between the two circles shall contain, at the bottom, the words "PROFESSIONAL LAND SURVEYOR" reading counterclockwise and at the top, the name of the licensee as written below, reading clockwise.
- 18.5 The seal acceptable to the Board is the one recognized in the trade as the No. 1 official pocket size, which has an inner circle 1" in diameter and an outer circle 1 ½" in diameter. A sample is below. Replace JOHN DOE AND No. 123 with your name and number.



- 18.6 All new licensees shall provide to the Board a copy of both the raised and rubber seal within 30 days of issuance of their license.

6 DE Reg. 271 (9/1/02)

11 DE Reg. 1664 (06/01/08)

19.0 Crimes substantially related to practice of land surveyors

- 19.1 Conviction of any of the following crimes, or of the attempt to commit or of a conspiracy to commit or conceal or of solicitation to commit the following crimes, is deemed to be a crime substantially related to the practice of land surveyor in the State of Delaware without regard to the place of conviction:
 - 19.1.1 Menacing. **11 Del.C.** §602

19.1.2 Reckless endangering in the second degree. 11 **Del.C.** §603

19.1.3 Reckless endangering in the first degree. 11 **Del.C.** §604

19.1.4 Abuse of a pregnant female in the second degree. 11 **Del.C.** §605

19.1.5 Abuse of a pregnant female in the first degree. 11 **Del.C.** §606

19.1.6 Assault in the second degree. 11 **Del.C.** §612

19.1.7 Assault in the first degree. 11 **Del.C.** §613

19.1.8 Assault by abuse or neglect. 11 **Del.C.** §615

19.1.9 Terroristic threatening. 11 **Del.C.** §621(a)(b)

19.1.10 Unlawful administering drugs. 11 **Del.C.** §625

19.1.11 Unlawful administering controlled substance or counterfeit substance or narcotic drugs. 11 **Del.C.** §626

19.1.12 Prohibited acts as to substances releasing vapors or fumes. 11 **Del.C.** §627

19.1.13 Vehicular assault in the second degree. 11 **Del.C.** §628

19.1.14 Vehicular assault in the first degree. 11 **Del.C.** §629

19.1.15 Vehicular homicide in the second degree. 11 **Del.C.** §630

19.1.16 Vehicular homicide in the first degree. 11 **Del.C.** §630A

19.1.17 Criminally negligent homicide. 11 **Del.C.** §631

19.1.18 Manslaughter. 11 **Del.C.** §632

19.1.19 Murder by abuse or neglect in the second degree. 11 **Del.C.** §633

19.1.20 Murder by abuse or neglect in the first degree. 11 **Del.C.** §634

19.1.21 Murder in the second degree. 11 **Del.C.** §635

19.1.22 Murder in the first degree. 11 **Del.C.** §636

19.1.23 Unlawful sexual contact in the second degree. 11 **Del.C.** §768

19.1.24 Unlawful sexual contact in the first degree. 11 **Del.C.** §769

19.1.25 Rape in the fourth degree. 11 **Del.C.** §770

19.1.26 Rape in the third degree. 11 **Del.C.** §771

19.1.27 Rape in the second degree. 11 **Del.C.** §772

19.1.28 Rape in the first degree. 11 **Del.C.** §773

19.1.29 Sexual extortion. 11 **Del.C.** §776

19.1.30 Continuous sexual abuse of a child. 11 **Del.C.** §778

19.1.31 Female genital mutilation. 11 **Del.C.** §780

19.1.32 Unlawful imprisonment in the first degree. 11 **Del.C.** §782

19.1.33 Kidnapping in the second degree. 11 **Del.C.** §783

19.1.34 Kidnapping in the first degree. 11 **Del.C.** §783A

19.1.35 Arson in the first degree. 11 **Del.C.** §803

19.1.36 Burglary in the third degree. 11 **Del.C.** §824

19.1.37 Burglary in the second degree. 11 **Del.C.** §825

19.1.38 Burglary in the first degree. 11 **Del.C.** §826

19.1.39 Multiple Offenses. 11 **Del.C.** §827

19.1.40 Possession of burglar's tools or instruments facilitating theft. 11 **Del.C.** §828

19.1.41 Robbery in the second degree. 11 **Del.C.** §831

19.1.42 Robbery in the first degree. 11 **Del.C.** §832

19.1.43 Carjacking in the second degree. 11 **Del.C.** §835

19.1.44 Carjacking in the first degree. 11 **Del.C.** §836

19.1.45 Shoplifting. 11 **Del.C.** § 840

19.1.46 Theft. 11 **Del.C.** §841

19.1.47 Theft of Services. 11 **Del.C.** §845

19.1.48 Extortion. 11 **Del.C.** §846

19.1.49 Misapplication of property. 11 **Del.C.** §848

19.1.50 Theft of rented property. 11 **Del.C.** §849

19.1.51 Receiving stolen property. 11 **Del.C.** §851

19.1.52 Identity theft. 11 **Del.C.** §854

19.1.53 Forgery. 11 **Del.C.** §861

19.1.54 Falsifying business records. 11 **Del.C.** §871

19.1.55 Tampering with public records in the second degree. 11 **Del.C.** §873

19.1.56 Tampering with public records in the first degree. 11 **Del.C.** §876

19.1.57 Offering a false instrument for filing. 11 **Del.C.** §877

19.1.58 Issuing a false certificate. 11 **Del.C.** §878

19.1.59 Bribery. 11 **Del.C.** §881

19.1.60 Bribe receiving. 11 **Del.C.** §882

19.1.61 Issuing a bad check. 11 **Del.C.** §900

19.1.62 Criminal impersonation of a police officer. 11 **Del.C.** §907B

19.1.63 Unlawfully concealing a will. 11 **Del.C.** §908

19.1.64 Fraudulent conveyance of public lands. 11 **Del.C.** §911

19.1.65 Fraudulent receipt of public lands. 11 **Del.C.** §912

19.1.66 Insurance fraud. 11 **Del.C.** §913

19.1.67 Health care fraud. 11 **Del.C.** §913A

19.1.68 New home construction fraud. 11 **Del.C.** §917

19.1.69 Unauthorized access. 11 **Del.C.** §932

19.1.70 Theft of computer services. 11 **Del.C.** §933

19.1.71 Interruption of computer services. 11 **Del.C.** §934

19.1.72 Misuse of computer system information. 11 **Del.C.** §935

19.1.73 Destruction of computer equipment. 11 **Del.C.** §936

19.1.74 Dealing in children. 11 **Del.C.** §1100

19.1.75 Abandonment of a child. 11 **Del.C.** §1101

19.1.76 Endangering the welfare of a child. 11 **Del.C.** §1102

19.1.77 Sexual exploitation of a child. 11 **Del.C.** §1108

19.1.78 Unlawful dealing in child pornography. 11 **Del.C.** §1109

19.1.79 Possession of child pornography. 11 **Del.C.** §1111

19.1.80 Sexual solicitation of a child. 11 **Del.C.** §1112A

19.1.81 Bribery. 11 **Del.C.** §1201

19.1.82 Receiving a bribe. 11 **Del.C.** §1203

19.1.83 Giving unlawful gratuities. 11 **Del.C.** §1205

19.1.84 Receiving unlawful gratuities. 11 **Del.C.** §1206

19.1.85 Perjury in the third degree. 11 **Del.C.** §1221

19.1.86 Perjury in the second degree. 11 **Del.C.** §1222

19.1.87 Perjury in the first degree. 11 **Del.C.** §1223

19.1.88 Making a false written statement. 11 **Del.C.** §1233

19.1.89 Threats to public officials. 11 **Del.C.** §1240

19.1.90 Assault in a detention facility. 11 **Del.C.** §1254

19.1.91 Bribing a witness. 11 **Del.C.** §1261

19.1.92 Bribe receiving by a witness. 11 **Del.C.** §1262

19.1.93 Tampering with a witness. 11 **Del.C.** §1263

19.1.94 Interfering with child witness. 11 **Del.C.** §1263A

19.1.95 Bribing a juror. 11 **Del.C.** §1264

19.1.96 Bribe receiving by a juror. 11 **Del.C.** §1265

19.1.97 Tampering with physical evidence. 11 **Del.C.** §1269

19.1.98 Disorderly conduct. 11 **Del.C.** §1301

19.1.99 Felony hate crimes. 11 **Del.C.** §1304

19.1.100 Harassment. 11 **Del.C.** §1311

19.1.101 Aggravated harassment. 11 **Del.C.** §1312

19.1.102 Felony stalking. 11 **Del.C.** §1312A

19.1.103 Trading in human remains and associated funerary objects. 11 **Del.C.** §1333

- 19.1.104 Adulteration. 11 **Del.C.** §1339
- 19.1.105 Carrying a concealed deadly weapon. 11 **Del.C.** §1442
- 19.1.106 Possessing a destructive weapon. 11 **Del.C.** §1444
- 19.1.107 Felony possession of a deadly weapon during the commission of a felony. 11 **Del.C.** §1447
- 19.1.108 Possession of a firearm during commission of a felony. 11 **Del.C.** §1447A
- 19.1.109 Possession and purchase of deadly weapons by persons prohibited. 11 **Del.C.** §1448
- 19.1.110 Theft of a firearm. 11 **Del.C.** §1451
- 19.1.111 Engaging in a firearms transaction on behalf of another. 11 **Del.C.** §1455
- 19.1.112 Removing a firearm from the possession of a law enforcement officer. 11 **Del.C.** §1458
- 19.1.113 Act of intimidation. 11 **Del.C.** §3532
- 19.1.114 Aggravated act of intimidation. 11 **Del.C.** §3533
- 19.1.115 Prohibited drug offenses A. 16 **Del.C.** §4751
- 19.1.116 Prohibited drug offenses B. 16 **Del.C.** §4752
- 19.1.117 Unlawful delivery of noncontrolled substances. 16 **Del.C.** §4752A
- 19.1.118 Prohibition against transfer, sale and purchase. 7 **Del.C.** §5306
- 19.1.119 Alteration, theft or destruction of will. 12 **Del.C.** §210
- 19.1.120 Receiving or transferring stolen vehicle. 21 **Del.C.** §6704
- 19.2 Crimes substantially related to the practice of professional land surveyors shall be deemed to include any crimes under any federal law, state law, or valid town, city or county ordinance, that are substantially similar to the crimes identified in this rule.

ATTACHMENT A

CONDITION	MARSH	RURAL	SUBURBAN	URBAN	REMARKS AND FORMULA
Unadjusted closure (minimum)	1: 5,000	1:7,500	1:10,000	1:15,000	Loop or between monuments
Angular closure (minimum)	30" N	20" N	15" N	10" N	N = number of angles in traverse
Accuracy of distances	0.10 ft + 200 ppm	0.07 ft + 150 ppm	0.05 ft + 100 ppm	0.03 ft + 50 ppm	100 ppm = 1:10,000
Elevations for boundaries controlled by tides, contours, etc. accurate to:	+ or -.50 ft	+ or -.50 ft	+ or -.50 ft	+ or -.50 ft	Based on NGVD (1929) or NAVD 88
Location of subject property or pertinent improvements, structures, paving, etc.	+ or - 2 ft	+ or - 1 ft	+ or - 0.1 ft	+ or - .10 ft	Any shown improvement within 75 feet of property must use these tolerances
Positional error in map plotting not to exceed: (applies to original map only)	1/10	1/20	1/20	1/40	National Map accuracy calls for 1/.50th inch

Area	0.1 acre	0.1 acre	0.001 acre	+ or - nearest square foot = less than 1 acre; 0.0001 = greater than 1 acre	Areas involving water boundary, Left to discretion of practitioner
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8 DE Reg. 1280 (03/01/05)

6 DE Reg. 271 (09/01/02)

10 DE Reg. 1630 (04/01/07)

11 DE Reg. 1664 (06/01/08)

14 DE Reg. 675 (01/01/11)