

MARKING GUIDELINES

NATIONAL SENIOR CERTIFICATE EXAMINATION

2019

ENGINEERING GRAPHICS AND DESIGN

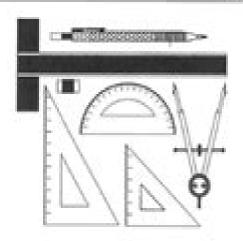
PAPER 1

MARKS: 200

TIME: 3 HOURS

PLEASE READ THE POLLOWING INSTRUCTIONS CAREFULLY

- 1. This question paper consists of 6 pages including the cover page and 4 questions.
- All questions must be answered.
- Unless specified otherwise, all questions are in First-engle Orthographic Projection.
- Unless specified otherwise, all questions are to be completed to a legala of 1/1.
- 5. All answer sheets must be resispled in numerical order, even questions that have not been answered.
- All construction work must be shown.
- 7. Print your examination number neatly on each page.
- 8. Use only the answer sheets provided.
- Your drawings should reflect eastness and accuracy.
- 10. All dimensions or detail not given may be assumed in good proportion.
- 11. Your drawings should comply with SANS 10143.



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1	ONE MALYTICAL			20				
2	TURNOUT			40				
3	TINO PONT PERSPECTIVE			40				
4	CIVE. DRAMMO	П		100				
	TOTAL			200				

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Catalog of Copyright Entries. Third Series Library of Congress. Copyright Office, 1971 Architectural Graphic Standards American Institute of Architects, Keith E. Hedges, 2017-04-18 ARCHITECTURAL GRAPHIC STANDARDS THE LANDMARK UPDATE OF THE MOST RECOGNIZED STUDENT RESOURCE IN ARCHITECTURE The Student Edition of the iconic Architectural Graphic Standards has been a rite of passage for architecture building and engineering students for more than eighty years Thoughtfully distilled from the Twelfth Edition of Architectural Graphic Standards and reorganized to meet the specific needs of today s students this fully updated Student Edition shows you how to take a design idea through the entire planning and documentation process This potent resource stays with you through your academic experience and into your first years as a professional with thousands of useful illustrations and hundreds of architectural elements conveniently placed at your fingertips Presented in a format closely resembling an architect's actual workflow this Twelfth Edition student handbook features Completely new material on resiliency in buildings A versatile treatment written for the design studio setting and aligned with the most current curricular trends including new and updated coverage on topics related to sustainability digital fabrication and building information modeling BIM A proven pedagogy that saves students time and ensures young professionals avoid the most common pitfalls Develop a state of the art mastery of design best practices with Architectural Graphic Standards Twelfth Edition Student Edition Architectural Graphic Standards for Residential Construction American Institute of Architects, 2010-04-26 The residential construction market may have its ups and downs but the need to keep your construction knowledge current never lets up Now with the latest edition of Architectural Graphic Standards for Residential Construction you can keep your practice at the ready This edition was expertly redesigned to include all new material on current technology specific to residential projects for anyone designing constructing or modifying a residence With additional new content covering sustainable and green designs sample residential drawings residential construction code requirements and contemporary issues in residential construction it s a must have resource And now it s easier to get the information you need when you need it with references to the relevant building codes built right into the details and illustrations These new smart details go beyond dimensions with references to the International Residential Building Code presenting all the information you need right at your fingertips New features and highlights include Loads of previously unpublished content over 80% is either new or entirely revised Sustainable green design information in every chapter a must today s practicing building and construction professionals Coverage of contemporary issues in residential construction aging in place new urbanism vacation and small homes historic residences it s all here Coverage of single and multi family dwellings complete coverage of houses row homes and quadraplexes as dictated by the International Residential Building Codes Publications of the National Institute of Standards and **Technology ... Catalog** National Institute of Standards and Technology (U.S.),1991 **International Handbook of Technology Education** Marc J. de Vries, Ilja Mottier, 2006 International Handbook of Technology Education Books and

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