

Designation: C1433M - 16b

Standard Specification for Precast Reinforced Concrete Monolithic Box Sections for Culverts, Storm Drains, and Sewers (Metric)¹

This standard is issued under the fixed designation C1433M; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ε) indicates an editorial change since the last revision or reapproval.

1. Scope

- 1.1 This specification covers single-cell precast reinforced concrete box sections cast monolithically and intended to be used for the construction of culverts and for the conveyance of storm water industrial wastes and sewage.
- 1.2 This specification is the SI companion to Specification C1433.

Note 1—This specification is primarily a manufacturing and purchasing specification. However, standard designs are included and the criteria used to develop these designs are given in Appendix X1. The successful performance of this product depends upon the proper selection of the box section, bedding, backfill, and care that the installation conforms to the construction specifications. The purchaser of the precast reinforced concrete box sections specified herein is cautioned that he must properly correlate the loading conditions and the field requirements with the box section specified and provide for inspection at the construction site.

2. Referenced Documents

2.1 ASTM Standards:²

A615/A615M Specification for Deformed and Plain Carbon-Steel Bars for Concrete Reinforcement

A1064/A1064M Specification for Carbon-Steel Wire and Welded Wire Reinforcement, Plain and Deformed, for Concrete

A706/A706M Specification for Deformed and Plain Low-Alloy Steel Bars for Concrete Reinforcement

C31/C31M Practice for Making and Curing Concrete Test Specimens in the Field

C33/C33M Specification for Concrete Aggregates

C39/C39M Test Method for Compressive Strength of Cylindrical Concrete Specimens

C150/C150M Specification for Portland Cement

C260/C260M Specification for Air-Entraining Admixtures for Concrete

C309 Specification for Liquid Membrane-Forming Compounds for Curing Concrete

C494/C494M Specification for Chemical Admixtures for Concrete

C497M Test Methods for Concrete Pipe, Manhole Sections, or Tile (Metric)

C595/C595M Specification for Blended Hydraulic Cements C618 Specification for Coal Fly Ash and Raw or Calcined Natural Pozzolan for Use in Concrete

C822 Terminology Relating to Concrete Pipe and Related Products

C989/C989M Specification for Slag Cement for Use in Concrete and Mortars

C990 Specification for Joints for Concrete Pipe, Manholes, and Precast Box Sections Using Preformed Flexible Joint Sealants

C1017/C1017M Specification for Chemical Admixtures for Use in Producing Flowing Concrete

C1116/C1116M Specification for Fiber-Reinforced Concrete C1602/C1602M Specification for Mixing Water Used in the Production of Hydraulic Cement Concrete

C1619 Specification for Elastomeric Seals for Joining Concrete Structures

C1675 Practice for Installation of Precast Reinforced Concrete Monolithic Box Sections for Culverts, Storm Drains, and Servers

C1677 Specification for Joints for Concrete Box, Using Rubber Gaskets

2.2 AASHTO Standards:³

Standard Specifications for Highway Bridges

3. Terminology

3.1 *Definitions*—For definitions of terms relating to concrete pipe, see Terminology C822.

4. Types

4.1 Precast reinforced concrete box sections manufactured in accordance with this specification shall be one of two types

¹ This specification is under the jurisdiction of ASTM Committee C13 on Concrete Pipe and is the direct responsibility of Subcommittee C13.07 on Acceptance Specifications and Precast Concrete Box Sections.

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² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

³ Available from American Association of State Highway and Transportation Officials (AASHTO), 444 N. Capitol St., NW, Suite 249, Washington, DC 20001.



identified in Tables 1 and 2, and shall be designated by type, span, rise, and design earth cover.

5. Basis of Acceptance

- 5.1 Acceptability of the box sections produced in accordance with Section 7 shall be determined by the results of the concrete compressive strength tests described in Section 11, by the material requirements described in Section 6, and by inspection of the finished box sections.
- 5.2 Box sections shall be considered ready for acceptance when they conform to the requirements of this specification.

6. Material

- 6.1 Reinforced Concrete—The reinforced concrete shall consist of cementitious materials, mineral aggregates, admixtures if used, and water in which steel has been embedded in such a manner that the steel and concrete act together.
 - 6.2 Cementitious Materials:
- 6.2.1 *Cement*—Cement shall conform to the requirements for portland cement of Specification C150/C150M or shall be portland blast-furnace slag cement, portland-limestone cement, or portland-pozzolan cement conforming to the requirements of Specification C595/C595M, except that the pozzolan constituent in the Type IP portland pozzolan cement shall be fly ash.
- 6.2.2 Fly Ash—Fly ash shall conform to the requirements of Specification C618, Class F or Class C.
- 6.2.3 *Slag Cement*—Slag cement shall conform to the requirements of Grade 100 or 120 of Specification C989/C989M.
- 6.2.4 Allowable Combinations of Cementitious Materials— The combination of cementitious materials used in the concrete shall be one of the following:
 - 6.2.4.1 Portland cement only,
 - 6.2.4.2 Portland blast-furnace slag cement only,
 - 6.2.4.3 Portland-pozzolan cement only,
 - 6.2.4.4 Portland-limestone cement only,
- 6.2.4.5 A combination of portland cement or portland-limestone cement and fly ash,
- 6.2.4.6 A combination of portland cement or portland-limestone cement, and slag cement,
- 6.2.4.7 A combination of portland cement or portland-limestone, slag cement, and fly ash, or
- 6.2.4.8 A combination of portland-pozzolan cement and fly ash.
- 6.3 *Aggregates*—Aggregates shall conform to Specification C33/C33M, except that the requirements for gradation shall not apply.
- 6.4 Admixtures—The following admixtures and blends are allowable:
- 6.4.1 Air-entraining admixture conforming to Specification C260/C260M:
- 6.4.2 Chemical admixture conforming to Specification C494/C494M;
- 6.4.3 Chemical admixture for use in producing flowing concrete conforming to Specification C1017/C1017M; and
 - 6.4.4 Chemical admixture or blend approved by the owner.

- 6.5 Steel Reinforcement—Reinforcement shall consist of welded wire reinforcement conforming to Specification A1064/A1064M. Circumferential reinforcement areas in Tables 1 and 2 are based solely on the use of welded wire reinforcement, refer to 12.6 if alternate steel designs utilizing steel bars, Grade 420, in conjunction with or in lieu of welded wire reinforcement are to be submitted for the owner's approval. Longitudinal distribution reinforcement shall be allowed to consist of welded wire reinforcement or deformed billet-steel bars conforming to either Specification A615/A615M, Grade 420, or Specification A706/A706M, Grade 420.
- 6.6 *Fibers*—Synthetic fibers and nonsynthetic fibers shall be allowed to be used, at the manufacturer's option, in concrete pipe as a nonstructural manufacturing material. Synthetic fibers (Type II and Type III) and nonsynthetic fiber (Type 1) designed and manufactured specifically for use in concrete and conforming to the requirements of Specification C1116/C1116M shall be accepted.
- 6.7 *Water*—Water used in the production of concrete shall be potable or non-potable water that meets the requirements of Specification C1602/C1602M.

7. Design

7.1 Design Tables—The box section dimensions, compressive strength of the concrete, and reinforcement details shall be as prescribed in Table 1 or Table 2 and Figs. 1-4, subject to the provisions of Section 12. Table 1 sections are designed for combined earth dead load and AASHTO HS20 live load conditions. Table 2 sections are designed for combined earth dead load and interstate live load conditions when the interstate live loading exceeds the HS20 live loading. Criteria used to develop Tables 1 and 2 are given in Appendix X1.

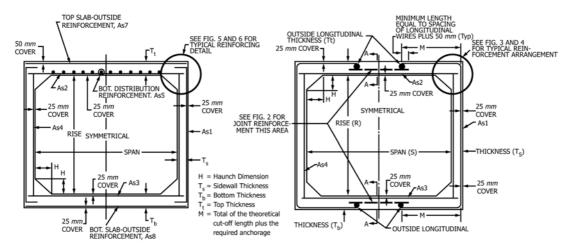
Note 2—The tabular designs in this specification were prepared according to AASHTO Standard Specifications for Highway Bridges, 1997 Edition.

7.2 Modified and Special Designs for Monolithic Structures—The manufacturer shall request approval by the purchaser of modified designs which differ from the designs in Section 7.1, or special designs for sizes and loads other than those shown in Tables 1 and 2. When spans are required that exceed those prescribed in Table 1 or Table 2, the design shall be based on the criteria given in Appendix X1. In addition, the span shall be designed to have adequate stiffness to limit deflection as given in Section 8.9 of AASHTO Standard Specification for Highway Bridges (latest edition).

Note 3—Construction procedures, such as heavy equipment movement or stockpiling of material over or adjacent to a box structure, can induce higher loads than those used for the structure's final design. These construction and surcharge loads are approved as long as the final steel areas in the box are larger than those the box will experience in the final installation condition. The design engineer should take into consideration the potential for higher loads induced by construction procedures in determining the final design of the box structure.

7.3 Placement of Reinforcement—The cover of concrete over the circumferential reinforcement shall be 25 mm, subject to the provisions of Section 12. The inside circumferential reinforcement shall extend into the tongue portion of the joint and the outside circumferential reinforcement shall extend into the groove portion of the joint. The clear distance of the end





Fill Height Less than 600 mm

Fill Height 600 mm and Greater

FIG. 1 Typical Box Sections

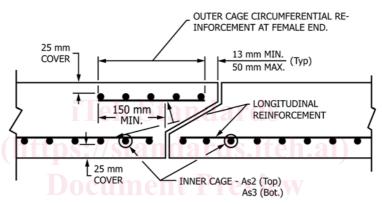
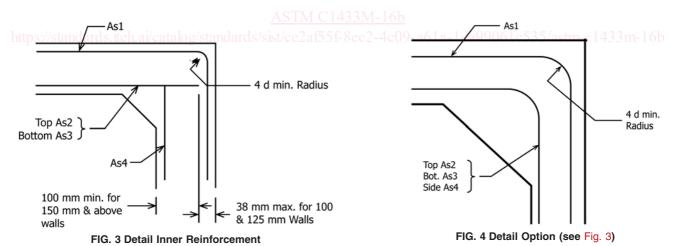


FIG. 2 Section A-A Top and Bottom Slab Joint Reinforcement



circumferential wires shall be not less than 13 mm nor more than 50 mm from the ends of the box section. Reinforcement shall be assembled utilizing any combination of single or

shall be assembled utilizing any combination of single or multiple layers of welded-wire reinforcement. Multiple layers shall not be separated by more than the thickness of one longitudinal wire plus 6 mm. The multiple layers shall be fastened together to form a single cage. All other specification requirements such as laps, welds, and tolerances of placement in the wall of the box section shall apply to this method of fabricating a reinforcement cage. A common reinforcement unit may be utilized for both A_{s2} (or A_{s3}) and A_{s4} , and also for both A_{s7} (or A_{s8}) and A_{s1} , with the largest area requirement governing, bending the reinforcement at the corners and waiving the extension requirements of Fig. 3 (see Fig. 5). When a single cage of multiple circumferential steel areas is used for A_{s2} (or A_{s3}) and A_{s4} reinforcement, the slab or wall requiring the larger steel area shall have this additional

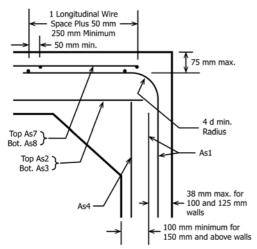
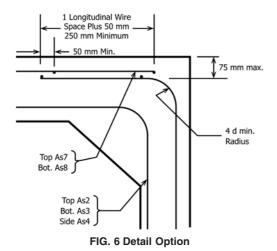


FIG. 5 Detailed Reinforcement Arrangement

circumferential steel extending for the full length of the slab or wall. The welded-wire reinforcement shall be composed of circumferential and longitudinal wires meeting the spacing requirements of 7.4 and shall contain sufficient longitudinal wires extending through the box section to maintain the shape and position of reinforcement. Longitudinal distribution reinforcement may be welded-wire reinforcement or deformed billet-steel bars and shall meet the spacing requirements of 7.4. The ends of the longitudinal distribution reinforcement shall not be more than 2 in. from the ends of the box section. The exposure of the ends of longitudinals, stirrups, and spacers used to position the reinforcement shall not be a cause for rejection.

7.4 Laps, Welds, and Spacing—Splices in the circumferential reinforcement shall be made by lapping. The overlap measured between the outermost longitudinal wires of each reinforcement sheet shall not be less than the spacing of the longitudinal wires plus 50 mm but not less than 250 mm. If $A_{\rm s1}$ is extended to the middle of either slab and connected, welded splices are not prohibited in the connection. When used, $A_{\rm s7}$ and $A_{\rm s8}$ shall be lapped with $A_{\rm s1}$ as shown in Figs. 5 and 6 (see also Fig. 7 and Fig. 8). If welds are made to circumferential reinforcement, they shall be made only to selected circumferent



Top As2
Bottom As3

Wall thickness max.

4 d min.
Radius

Top As2
Bot. As3
Integrated with As4

Side As4

FIG. 7 Alternate Detail

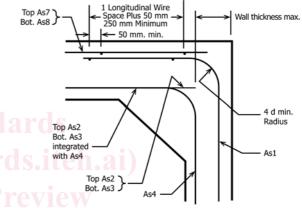


FIG. 8 Alternate Detail

ential wires that are not less than 450 mm apart along the longitudinal axis of the box section. Also, when spacers are welded to circumferential wires, they shall be welded only to these selected circumferential wires. There shall be no welding to other circumferential wires, except it is not prohibited for A_{s4} to be lapped and welded at any location or connected by welding at the corners to A_{s2} and A_{s3} . No welds shall be made to A_{s2} or A_{s3} circumferential wires in the middle third of the span (see Fig. 9 for welding restrictions). When distribution reinforcement is to be fastened to a cage by welding, it shall be

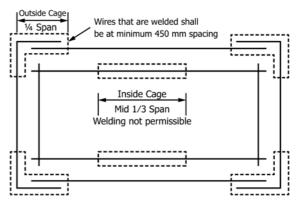


FIG. 9 Critical Zones of High Stress Where Welding is Restricted

welded only to longitudinal wires and only near the ends of the box section. If welds are made to Grade 420 reinforcing bars, weldable bars conforming to Specification A706/A706M shall be used. The spacing center to center of the circumferential wires shall not be less than 50 mm nor more than 100 mm. The spacing center to center of the longitudinal wires shall not be more than 200 mm.

8. Installation

8.1 The successful performance of this product depends upon proper installation as the soil/structure interaction is considered in the design. The effects of this interaction are highlighted in Note 1 and Note 3. The precast reinforced concrete box section/soil system shall be constructed to conform to Practice C1675 for the installation conditions assumed for design and in accordance with the dimensions and requirements specified or shown on the plans. The tabular steel designs in this Standard assume compacted sidefill. See Appendix X1 for additional details on design assumptions used to develop the design tables.

9. Joints

- 9.1 The precast reinforced concrete box sections shall be produced with tongue and groove ends. The ends shall be of such design and the ends of the box sections so formed that the sections can be laid together to make a continuous line of box sections compatible with the permissible variations given in Section 12.
- 9.2 Joints may conform to the requirements of Specification C990, Specification C1677, or other established joint type as approved by the owner including, but not limited to, mortar, sealant, or fabric-wrapped joints. For joints conforming to Specification C1677, the gasket shall be in accordance with Specification C1619, Class C requirements or for oil-resistant properties, the gasket shall meet Class D requirements.
- 9.3 Outer cage circumferential reinforcement as shown in Figs. 1 and 2 shall be placed in the top and bottom slabs at the groove portion of the joint when $A_{\rm s1}$ is not continuous over the span. The minimum area of such reinforcement in square millimeters per linear meter of box section length shall be the same as the areas specified for $A_{\rm s4}$ in Tables 1 and 2.

10. Manufacture

- 10.1 *Mixture*—The aggregates shall be sized, graded, proportioned, and mixed with such proportions of cementitious materials and water as will produce a thoroughly-mixed concrete of such quality that the pipe will conform to the test and design requirements of this specification. All concrete shall have a water-cementitious materials ratio not exceeding 0.53 by weight. Cementitious materials shall be as specified in 6.2 and shall be added to the mix in a proportion not less than 280 kg/m³ unless mix designs with a lower cementitious materials content demonstrate that the quality and performance of the pipe meet the requirements of this specification.
- 10.2 Curing—The box sections shall be cured for a sufficient length of time so that the concrete will develop the specified compressive strength in 28 days or less. Any one of

the following methods of curing or combinations thereof shall be allowed to be used:

- 10.2.1 *Steam Curing*—The box sections shall be allowed to be low pressure, steam-cured by a system that will maintain a moist atmosphere.
- 10.2.2 *Water Curing*—The box sections shall be allowed to be water-cured by any method that will keep the sections moist.
- 10.2.3 *Membrane Curing*—A sealing membrane conforming to the requirements of Specification C309 may be applied and shall be left intact until the required concrete compressive strength is attained. The concrete temperature at the time of application shall be within 6°C of the atmospheric temperature. All surfaces shall be kept moist prior to the application of the compounds and shall be damp when the compound is applied.
- 10.3 *Forms*—The forms used in manufacture shall be sufficiently rigid and accurate to maintain the box section dimensions within the permissible variations given in Section 12. All casting surfaces shall be of smooth nonporous material.
- 10.4 *Handling*—Handling devices or holes shall be permitted in each box section for the purpose of handling and laying.

11. Physical Requirements

- 11.1 Type of Test Specimen—Compression tests for determining concrete compressive strength shall be allowed to be made on either standard rodded concrete cylinders or concrete cylinders compacted and cured in like manner as the box sections, or on cores drilled from the box section.
 - 11.2 Compression Testing of Cylinders:
- 11.2.1 Cylinders shall be obtained and tested for compressive strength in accordance with the provisions of Practice C31/C31M and Test Method C39/C39M, except that the cylinders may be prepared by methods comparable to those used to consolidate and cure the concrete in the actual box section manufactured. Cylindrical specimens of sizes other than 150 by 300 mm may be used provided all other requirements of Practice C31/C31M are met. If the concrete is of a consistency too stiff for compaction by rodding or internal vibration, the alternate method described in Section II of Test Methods C497M may be used. Cylinders shall be exposed to the same curing conditions as the manufactured box sections and shall remain with the sections until tested.
- 11.2.2 Prepare not less than three test cylinders from each concrete mix used within a group (one day's production) of box sections.
 - 11.2.3 Acceptability on the Basis of Cylinder Test Results:
- 11.2.3.1 When the average compressive strength of all cylinders tested is equal to or greater than the design concrete strength, not more than 10 % of the cylinders tested have a compressive strength less than the design concrete strength, and no cylinder tested has a compressive strength less than 80 % of the design concrete strength, the lot shall be accepted.
- 11.2.3.2 When the compressive strength of the cylinders tested does not conform to the acceptance criteria stated in 11.2.3.1, the acceptability of the lot shall be determined in accordance with the provisions of 11.3.
 - 11.3 Compression Testing of Cores:

- 11.3.1 Cores shall be obtained and tested for compressive strength in accordance with the provisions of Test Methods C497M.
- 11.3.2 Three cores shall be cut from a section selected at random from each group of 15 box sections or fraction thereof of a single size from each continuous production run.
 - 11.3.3 Acceptability by Core Tests:
- 11.3.3.1 The compressive strength of the concrete in each group of box sections is acceptable when concrete compressive strength, defined as the average of three cores taken at random from the subject group, is equal to or greater than $85\,\%$ of the required strength of the concrete with no one core less than $75\,\%$ of the required strength.
- 11.3.3.2 If the compressive strength of the three cores does not meet the requirements of 11.3.3.1, the sections from which the cores were taken shall be rejected. Two box sections from the remainder of the group shall be selected at random and one core shall be taken from each. If both cores have a strength equal to or greater than 85 % of the required strength of the concrete, the remainder of the group is acceptable. If the compressive strength of either of the two cores tested is less than 85 % of the required strength of the concrete, the remainder of the group of box section shall be rejected or, at the option of the manufacturer, each box section of the entire group shall be cored and accepted individually, and any of these box sections that have cores with less than 85 % of the required strength of the concrete shall be rejected.
- 11.4 Plugging Core Holes—The core holes shall be plugged and sealed by the manufacturer in a manner such that the box section will meet all of the test requirements of this specification. Box sections so sealed shall be considered as satisfactory for use.
- 11.5 Test Equipment—Every manufacturer furnishing box sections under this specification shall furnish all facilities and personnel necessary to carry out the tests required.

12. Permissible Variations

- 12.1 Internal Dimensions—The internal dimensions measured between parallel faces of the span or rise at any point perpendicular to the face of the measured section shall not vary by more than 1% or 51 mm from the design dimensions, whichever is less, for dimensions greater than 1200 mm and shall not vary by more than 13 mm for dimensions less than or equal to 1200 mm. Measurements shall be taken at the midpoint of the span or rise and 300 mm from each end of the section. The haunch dimensions shall not vary more than 6 mm from the design dimensions.
- 12.2 Slab and Wall Thickness—The slab and wall thickness shall not be less than that shown in the design by more than 5 % or 5 mm, whichever is greater. A thickness more than that required in the design shall not be a cause for rejection.
- 12.3 Length of Opposite Surfaces—Variations in laying lengths of two opposite surfaces of the box section shall not be more than 10 mm/m of internal span, with a maximum of 16 mm for all sizes through 2100 mm internal span, and a maximum of 19 mm for internal spans greater than 2100 mm, except where beveled ends for laying of curves are specified by the purchaser.

- 12.4 Length of Section—The underrun in length of a section shall not be more than 10 mm/m of length with a maximum of 13 mm in any box section.
- 12.5 Position of Reinforcement—The maximum variation in the position of the reinforcement for 125 mm or less slab and wall thickness shall be ± 10 mm, and for greater than 125 mm slab and wall thickness shall be ± 13 mm. In no case, however, shall the cover over the reinforcement be less than 16 mm, as measured to the internal surface or the external surface except the cover over the reinforcement for the external surface of the top slab for boxes with under 0.6 m of cover shall not be less than 40 mm. The preceding minimum cover limitation does not apply at the mating surfaces of the joint.
- 12.6 Area of Reinforcement—The areas of steel reinforcement shall be the design steel areas as shown in Tables 1 and 2. Steel areas greater than those required shall not be cause for rejection. The permissible variation in diameter of any wire in finished reinforcement shall conform to the tolerances prescribed for the wire before fabrication by Specification A1064/A1064M as applicable. If steel bars (Grade 420) are used in lieu of welded wire reinforcement, the steel areas presented in Tables 1 and 2 shall be increased to account for the difference in steel yield strength, steel spacing, concrete cover, and crack control between the welded wire reinforcement and steel bars.
- 12.7 Haunch Dimensions—The vertical and horizontal dimensions shall be equal to the side wall thickness. If haunches with other dimensions are used, a special reinforcement design for the actual dimensions shall be completed. In lieu of performing a special design, for the specific case where the actual haunch dimensions are larger than the standard dimensions and vertical and horizontal haunch dimensions are equal, the A_{s1} steel area shall be increased 1 % for every 5 % increase in the haunch dimension over that specified in Table 1 or Table 2 and A_{s2} and A_{s3} shall be reduced by an equal percentage.

13. Repairs

13.1 Box sections shall be repaired, if necessary, because of imperfections in manufacture or handling damage and will be acceptable if, in the opinion of the purchaser, the repaired box section conforms to the requirements of this specification.

14. Inspection

14.1 The quality of materials, the process of manufacture, and the finished box sections shall be subject to inspection by the purchaser.

15. Rejection

- 15.1 Box sections shall be subject to rejection on account of failure to conform to any of the specification requirements. Individual box sections shall be allowed to be rejected because of any of the following:
- 15.1.1 Fractures or cracks passing through the wall, except for a single end crack that does not exceed the depth of the joint.
- 15.1.2 Defects that indicate mixing and molding not in compliance with 10.1, or honeycombed or open texture that would adversely affect the function of the box sections, and



15.1.3 Damaged ends, where such damage would prevent making a satisfactory joint.

16. Marking

- 16.1 The following information shall be legibly marked on each box section by indentation, waterproof paint, or other approved means:
- 16.1.1 Box section span, rise, table number, maximum and minimum design earth cover, and specification designation,
- 16.1.2 Date of manufacture, and
- 16.1.3 Name or trademark of the manufacturer.

16.2 Each section shall be clearly marked by indentation on either the inner or outer surface during the process of manufacture so that the location of the top will be evident immediately after the forms are stripped. In addition, the word "top" shall be lettered with waterproof paint on the inside top surface.

TABLE 1 Design Requirements for Precast Concrete Box Sections Under Earth Dead and HS20 Live Load Conditions

Note 1—Design earth covers and reinforcement areas are based on the weight of a column of earth over the width of the box section as defined in Appendix X1.

Note 2—Concrete design strength 35 MPa.

Note 3—The design earth cover indicated is the height of fill above the top of the box section. Design requirements are based on the material and soil properties, loading data, and typical section as included in Appendix X1. For alternative or special designs, see 7.2.

Note 4—Design steel area in millimetres per linear metre of box section at those locations which are indicated on the typical section included in Fig. 1.

Note 5—The top section designation, for example, 900 by 600 by 100 mm indicates (interior horizontal span in millimetres) by (interior vertical rise in millimetres) by (wall and slab thickness in millimetres).

Note 6—In accordance with the acceptance criteria in 7.2, the manufacturer may interpolate the steel area requirements for fill heights between noted increments or may submit independent designs.

increm	ents o	r may	submit inc	depende	ent design	S.								
						90	00 by 600 by	/ 100 mm						
Span	Rise	Тор	Bottom	Side	Haunch	Design Earth Cover			Circumfer	ential Reinfor	cement Are	eas, mm²/m		
mm	mm	mm	mm	mm	mm	m	A _{s1}	A _{s2}	A _{s3}	A _{s4}	A _{s5}	A _{s7}	A _{s8}	"M," mm
900	600	175	150	100	100	0-0.6	360	810	450	220	410	360	300	
900	600	100	100	100	100	0.6-0.9	280	450	450	220				790
900	600	100	100	100	100	0.9-1.5	220	220	220	220				790
900	600	100	100	100	100	3	220	220	220	220				790
900	600	100	100	100	100	4.6	220	300	300	220				790
900	600	100	100	100	100	6.1	240	390	410	220				790
900	600	100	100	100	100	7.6	300	490	490	220				790
900	600	100	100	100	100	9.1	360	580	580	220				790
900	600	100	100	100	100	10.7	430	660	660	220				790
							00 by 900 by	/ 100 mm						
Span	Rise	Top	Bottom	Side	Haunch	Design Earth Cover		VI-16h	Circumfer	ential Reinfor	cement Are	eas, mm²/m		
mm	mm	mm	mm	mm	mm	m	A _{s1}	A _{s2}	A _{s3}	A _{s4}	A _{s5}	A _{s7}	A_{s8}	"M," mm
900	900	175	s 150	100	100	dards/0-0.6/ce2a	5 360 ec	2 850	490	220	430	360 4	300	
900	900	100	100	100	100	0.6-0.9	220	530	530	220				790
900	900	100	100	100	100	0.9-1.5	220	220	240	220				790
900	900	100	100	100	100	3	220	240	240	220				790
900	900	100	100	100	100	4.6	220	320	340	220				790
900	900	100	100	100	100	6.1	220	430	430	220				790
900	900	100	100	100	100	7.6	220	510	530	220				790
900	900	100	100	100	100	9.1	260	620	620	220				790
900	900	100	100	100	100	10.7	300	700	720	220				790
							00 by 600 b	y 125 mm						
Span	Rise	Top	Bottom	Side	Haunch	Design Earth Cover			Circumfer	ential Reinfor				
mm	mm	mm	mm	mm	mm	m	A _{s1}	A _{s2}	A _{s3}	A _{s4}	A _{s5}	A _{s7}	A _{s8}	"M," mm
1200	600	190	150	125	125	0-0.6	390	850	430	260	430	390	300	
1200	600	125	125	125	125	0.6-0.9	450	490	430	260				970
1200	600	125	125	125	125	0.9-1.5	260	260	260	260				970
1200	600	125	125	125	125	3	260	260	280	260				970
1200	600	125	125	125	125	4.6	300	360	390	260				970
1200	600	125	125	125	125	6.1	410	490	490	260				970
1200	600	125	125	125	125	7.6	490	600	600	260				970
1200	600	125	125	125	125	9.1	600	700	700	260				970
1200	600	125	125	125	125	10.7	700	810	830	260				970
							00 by 900 b	y 125 mm				2,		
Span	Rise	Top	Bottom	Side	Haunch	Design Earth Cover				ential Reinfor				// * • • •
mm	mm	mm	mm	mm	mm	m	A _{s1}	A _{s2}	A _{s3}	A _{s4}	A _{s5}	A _{s7}	A _{s8}	"M," mm
1200	900	190	150	125	125	0-0.6	390	960	490	260	470	390	300	070
1200	900	125	125	125	125	0.6-0.9	340	600	530	260				970
1200	900	125	125	125	125	0.9-1.5	260	260	280	260				970
1200	900	125	125	125	125	3	260	300	320	260				970
1200	900	125	125	125	125	4.6	260	430	430	260				970
1200	900	125	125	125	125	6.1	300	550	550	260				970
1200	900	125	125	125	125	7.6	360	680	680	260				970
1200	900	125	125	125	125	9.1	450	810	810	260				970



1200	900	125	125	125	125	10.7	530	940	940	260				970
							00 by 1200 b	oy 125 mm						
Span	Rise	Top	Bottom	Side	Haunch	Design Earth Cover			Circumfere		rcement Area	as, mm²/m		
mm	mm	mm	mm	mm	mm	m	A _{s1}	A _{s2}	A _{s3}	A _{s4}	A _{s5}	A _{s7}	A _{s8}	"M," mm
1200	1200	190	150	125	125	0-0.6	390	1000	530	260	490	390	300	
1200	1200	125	125	125	125	0.6-0.9	280	660	600	260				970
1200	1200	125	125	125	125	0.9-1.5	260	300	320	260				970
1200	1200	125	125	125	125	3	260	320	340	260				970
1200	1200	125	125	125	125	4.6	260	450	470	260				970
1200	1200	125	125	125	125	6.1	260	580	600	260				970
1200	1200	125	125	125	125	7.6	300	700	720	260				970
1200	1200	125	125	125	125	9.1	360	830	850	260				970
1200	1200	125	125	125	125	10.7	430	960	980	260				970
	D:	_	D !!	0: 1			600 by 900 b	y 150 mm	0: (21		
Span	Rise	Top	Bottom	Side	Haunch	Design Earth Cover					rcement Area			//* * "
mm	mm	mm	mm	mm	mm	m	A _{s1}	A _{s2}	A _{s3}	A _{s4}	A _{s5}	A _{s7}	A _{s8}	"M," mm
1500	900	200	175	150	150	0-0.6	410	940	470	300	450	410	360	1150
1500	900	150	150	150	150	0.6-0.9	450	620	470	300				1150
1500	900	150	150	150	150	0.9-1.5	300	300	300	300				920
1500	900	150	150	150	150	3	300	360	360	300				920
1500	900	150	150	150	150	4.6	360	510	510	300				890
1500	900	150	150	150	150	6.1	450	660	660	300				890
1500	900	150	150	150	150	7.6	550	810	810	300				890
1500	900	150	150	150	150	9.1	660	960	960	300				890
1500	900	150	150	150	150	10.7	790 00 by 1200 l	1100	1130	300				890
Span	Rise	Тор	Bottom	Side	Haunch	Design Earth Cover		oy 150 mm	Circumfere	ential Reinfo	rcement Area	as mm²/m		
mm	mm	mm	mm	mm	mm	m	- A _{s1}	A _{s2}	A _{s3}	A _{s4}	A _{s5}	A _{s7}	A _{s8}	"M," mm
1500	1200	200	175	150	150	0-0.6	410	1020	510	300	470	410	360	
1500	1200	150	150	150	150	0.6-0.9	390	700	530	300				1150
1500	1200	150	150	150	150	0.9-1.5	300	340	340	300				1150
1500	1200	150	150	150	150	3	300	410	410	300				920
1500	1200	150	150	150	150	4.6	300	550	580	300				890
1500	1200	150	150	150	150	6.1	390	700	720	300				890
1500	1200	150	150	150	150	7.6	450	870	890	300				890
1500	1200	150	150	150	150	9.1	550	2120	2120	300				890
1500	1200	150	150	150	150	10.7	640	1190	1210	300				890
1000	1200	100	100	100	100	<u></u>	00 by 1500 b			000				
Span	Rise	Тор	Bottom	Side	Haunch	Design Earth Cover		• •••		ential Reinfo	rcement Area	as, mm²/m		
mm	mm	mm	mm	mm	mm	m	A _{s1}	A _{s2}	A _{s3}	A _{s4}	A _{s5}	A _{s7}	A _{s8}	"M," mm
1500	1500	200	175	150	150	0-0.6	410	1060	550	300	510	410	360	_
1500	1500	150	450											
1500		100	150	150	150	0.6-0.9	340	750	600	300				1150
1000	1500	150	150	150 150	150 150	0.6-0.9 0.9-1.5	340 300	750 360	600 390	300 300				1150 1150
1500														
1500	1500 1500	150 150	150 150	150 150	150 150	0.9-1.5 3	300 300	360 430	390 450	300 300				1150 1150
1500 1500	1500 1500 1500	150 150 150	150 150 150	150 150 150	150 150 150	0.9-1.5 3 4.6	300 300 300	360 430 580	390 450 600	300 300 300				1150 1150 920
1500 1500 1500	1500 1500 1500 1500	150 150 150 150	150 150 150 150	150 150 150 150	150 150 150 150	0.9-1.5 3 4.6 STM 6.1	300 300 300 320	360 430 580 750	390 450 600 770	300 300 300 300				1150 1150 920 890
1500 1500 1500 1500	1500 1500 1500 1500 1500	150 150 150 150 150	150 150 150 150 150	150 150 150 150 150	150 150 150 150 150	0.9-1.5 3 4.6 STM 6.1 dards/7.6/ce2a	300 300 300 320 410	360 430 580 750 890	390 450 600 770 - 4 940	300 300 300 300 300 da 300 6				1150 1150 920 890 6b 890
1500 1500 1500	1500 1500 1500 1500	150 150 150 150	150 150 150 150	150 150 150 150	150 150 150 150	0.9-1.5 3 4.6 STM 6.1	300 300 300 320	360 430 580 750 2 890 1060	390 450 600 770	300 300 300 300				1150 1150 920 890
1500 1500 1500 1500 1500 1500	1500 1500 1500 1500 1500 1500 1500	150 150 150 150 150 150 150	150 150 150 150 150 150 150	150 150 150 150 150 150 150	150 150 150 150 150 150 150	0.9-1.5 3 4.6 STM 6.1 dards/7.6/ce2a 9.1 10.7	300 300 300 320 410 470 560 300 by 900 b	360 430 580 750 2 890 1060 1230	390 450 600 770 -a (940 -] 1080 1250	300 300 300 300 300 300 300 300				1150 1150 920 890 890 890
1500 1500 1500 1500 1500 1500	1500 1500 1500 1500 1500 1500 1500	150 150 150 150 150 150 150	150 150 150 150 150 150 150 150	150 150 150 150 150 150 150 150	150 150 150 150 150 150 150 150 150	0.9-1.5 3 4.6 6.1 dards/7.6/02/24 9.1 10.7 18 Design Earth Cover	300 300 300 320 410 470 560 800 by 900 b	360 430 580 750 890 1060 1230 y 175 mm	390 450 600 770 - a (940 -] 1080 1250	300 300 300 300 300 300 300 300 ential Reinfo	1c535/as	as, mm²/m		1150 1150 920 890 6b 890 890 890
1500 1500 1500 1500 1500 1500 Span mm	1500 1500 1500 1500 1500 1500 1500 Rise mm	150 150 150 150 150 150 150 Top mm	150 150 150 150 150 150 150 150 Bottom	150 150 150 150 150 150 150 Side mm	150 150 150 150 150 150 150 150 Haunch mm	0.9-1.5 3 4.6 6.1 dards 7.6 9.1 10.7 18 Design Earth Cover	300 300 300 320 410 470 560 300 by 900 b	360 430 580 750 890 1060 1230 y 175 mm	390 450 600 770 - a (940 –) 1080 1250 Circumfere A _{s3}	300 300 300 300 300 300 300 300 ential Reinfo	rcement Area	as, mm²/m A _{s7}	A _{s8}	1150 1150 920 890 890 890
1500 1500 1500 1500 1500 1500 Span mm 1800	1500 1500 1500 1500 1500 1500 1500 Rise mm	150 150 150 150 150 150 150 150 Top mm 200	150 150 150 150 150 150 150 150 Bottom mm 175	150 150 150 150 150 150 150 150 Side mm	150 150 150 150 150 150 150 150 Haunch mm	0.9-1.5 3 4.6 6.1 dards 7.6 9.1 10.7 18 Design Earth Cover m 0-0.6	300 300 300 320 410 470 560 800 by 900 b - - - - 490	360 430 580 750 890 1060 1230 y 175 mm A _{s2} 960	390 450 600 770 1080 1250 Circumfere A _{s3} 430	300 300 300 300 300 300 300 300 ential Reinfor A _{s4} 360		as, mm²/m		1150 1150 920 890 890 890 890 890
1500 1500 1500 1500 1500 1500 Span mm 1800 1800	1500 1500 1500 1500 1500 1500 1500 Rise mm 900 900	150 150 150 150 150 150 150 150 Top mm 200 175	150 150 150 150 150 150 150 150 150 Bottom mm 175 175	150 150 150 150 150 150 150 Side mm 175 175	150 150 150 150 150 150 150 150 Haunch mm 175 175	0.9-1.5 3 4.6 6.1 dards 7.6 / ce2a 9.1 10.7 18 Design Earth Cover m 0-0.6 0.6-0.9	300 300 300 320 410 470 560 300 by 900 b - A _{s1} 490 510	360 430 580 750 890 1060 1230 y 175 mm A _{s2} 960 640	390 450 600 770 (940 – 1 1080 1250 Circumfere A _{s3} 430 430	300 300 300 300 300 300 300 300 ential Reinfo A _{s4} 360 360	rcement Area	as, mm²/m A _{s7}	A _{s8}	1150 1150 920 890 6b 890 890 890 "M," mm
1500 1500 1500 1500 1500 1500 Span mm 1800 1800	1500 1500 1500 1500 1500 1500 1500 Rise mm 900 900 900	150 150 150 150 150 150 150 Top mm 200 175 175	150 150 150 150 150 150 150 150 150 150	150 150 150 150 150 150 150 Side mm 175 175	150 150 150 150 150 150 150 150 Haunch mm 175 175	0.9-1.5 3 4.6 6.1 dards/7.6/ce2a 9.1 10.7 18 Design Earth Cover m 0-0.6 0.6-0.9 0.9-1.5	300 300 300 320 470 560 300 by 900 b - A _{s1} 490 510 360	360 430 580 750 890 1060 1230 y 175 mm A _{s2} 960 640 360	390 450 600 770 940 1080 1250 Circumfere A _{s3} 430 430 360	300 300 300 300 300 300 300 300 ential Reinfo A _{s4} 360 360	rcement Area	as, mm²/m A _{s7}	A _{s8}	1150 1150 920 890 890 890 890 "M," mm
1500 1500 1500 1500 1500 1500 1500 Span mm 1800 1800 1800	1500 1500 1500 1500 1500 1500 1500 1500	150 150 150 150 150 150 150 150 Top mm 200 175 175	150 150 150 150 150 150 150 150 150 150	150 150 150 150 150 150 150 150 150 Side mm 175 175 175	150 150 150 150 150 150 150 150 Haunch mm 175 175 175	0.9-1.5 3 4.6 6.1 dards/7.6/ce2a 9.1 10.7 18 Design Earth Cover m 0-0.6 0.6-0.9 0.9-1.5 3	300 300 300 320 410 560 300 by 900 b - - - - - - - - - - - - - - - - - - -	360 430 580 750 890 1060 1230 y 175 mm A _{s2} 960 640 360 430	390 450 600 770 940 1080 1250 Circumfere A _{s3} 430 430 430	300 300 300 300 300 300 300 300 ential Reinfo A _{s4} 360 360 360 360	rcement Area	as, mm²/m A _{s7}	A _{s8}	1150 1150 920 890 890 890 890 "M," mm 1100 1020 1000
1500 1500 1500 1500 1500 1500 1500 Span mm 1800 1800 1800 1800	1500 1500 1500 1500 1500 1500 1500 1500	150 150 150 150 150 150 150 150 Top mm 200 175 175 175	150 150 150 150 150 150 150 150 150 150	150 150 150 150 150 150 150 150 175 175 175 175 175	150 150 150 150 150 150 150 150 150 Haunch mm 175 175 175 175	0.9-1.5 3 4.6 6.1 0.7.6 9.1 10.7 18 Design Earth Cover m 0-0.6 0.6-0.9 0.9-1.5 3 4.6	300 300 300 320 410 560 800 by 900 b 	360 430 580 750 890 1060 1230 y 175 mm A _{s2} 960 640 360 430 580	390 450 600 770 1080 1250 Circumfere A _{s3} 430 430 430 600	300 300 300 300 300 300 300 ential Reinfo A _{s4} 360 360 360 360	rcement Area	as, mm²/m A _{s7}	A _{s8}	1150 1150 920 890 890 890 890 "M," mm 1100 1020 1000 970
1500 1500 1500 1500 1500 1500 Span mm 1800 1800 1800 1800 1800	1500 1500 1500 1500 1500 1500 1500 1500	150 150 150 150 150 150 150 150 Top mm 200 175 175 175 175	150 150 150 150 150 150 150 150 150 150	150 150 150 150 150 150 150 150 150 175 175 175 175 175	150 150 150 150 150 150 150 150 150 Haunch mm 175 175 175 175 175	0.9-1.5 3 4.6 6.1 7.6 9.1 10.7 18 Design Earth Cover m 0-0.6 0.6-0.9 0.9-1.5 3 4.6 6.1	300 300 300 320 410 470 560 300 by 900 b ————————————————————————————————————	360 430 580 750 890 1060 1230 y 175 mm A _{s2} 960 640 360 430 580 750	390 450 600 770 940 – 1 1080 1250 Circumfere A _{s3} 430 430 430 600 770	300 300 300 300 300 300 300 300 ential Reinfo A _{s4} 360 360 360 360 360	rcement Area	as, mm²/m A _{s7}	A _{s8}	1150 1150 920 890 890 890 890 "M," mm 1100 1020 1000 970 970
1500 1500 1500 1500 1500 1500 5pan mm 1800 1800 1800 1800 1800	1500 1500 1500 1500 1500 1500 1500 1500	150 150 150 150 150 150 150 150 Top mm 200 175 175 175 175	150 150 150 150 150 150 150 150 150 175 175 175 175 175 175 175	150 150 150 150 150 150 150 150 Side mm 175 175 175 175 175 175	150 150 150 150 150 150 150 150 Haunch mm 175 175 175 175 175 175	0.9-1.5 3 4.6 6.1 7.6 9.1 10.7 18 Design Earth Cover m 0-0.6 0.6-0.9 0.9-1.5 3 4.6 6.1 7.6	300 300 300 320 410 470 560 300 by 900 b 	360 430 750 890 1060 1230 y 175 mm A _{s2} 960 640 360 430 580 750 940	390 450 600 770 940 – 1 1080 1250 Circumfere A _{s3} 430 430 430 360 430 600 770 940	300 300 300 300 300 300 300 300 ential Reinfo A _{s4} 360 360 360 360 360 360	rcement Area	as, mm²/m A _{s7}	A _{s8}	1150 1150 920 890 890 890 890 "M," mm 1100 1020 1000 970 970
1500 1500 1500 1500 1500 1500 5pan mm 1800 1800 1800 1800 1800 1800	1500 1500 1500 1500 1500 1500 1500 1500	150 150 150 150 150 150 150 150 150 175 175 175 175 175 175 175	150 150 150 150 150 150 150 150 150 150	150 150 150 150 150 150 150 Side mm 175 175 175 175 175 175 175	150 150 150 150 150 150 150 150 150 175 175 175 175 175 175 175 175	0.9-1.5 3 4.6 6.1 0.7.6 9.1 10.7 18 Design Earth Cover m 0-0.6 0.6-0.9 0.9-1.5 3 4.6 6.1 7.6 9.1	300 300 300 320 470 560 300 by 900 b ———————————————————————————————————	360 430 580 780 780 1060 1230 y 175 mm A _{s2} 960 640 360 430 580 750 940 1100	390 450 600 770 1080 1250 Circumfere A _{s3} 430 430 430 600 770 940 1100	300 300 300 300 300 300 300 ential Reinfo A _{s4} 360 360 360 360 360 360 360	rcement Area	as, mm²/m A _{s7}	A _{s8}	1150 1150 920 6b 890 890 890 "M," mm 1100 1020 1000 970 970 970
1500 1500 1500 1500 1500 1500 5pan mm 1800 1800 1800 1800 1800	1500 1500 1500 1500 1500 1500 1500 1500	150 150 150 150 150 150 150 150 Top mm 200 175 175 175 175	150 150 150 150 150 150 150 150 150 175 175 175 175 175 175 175	150 150 150 150 150 150 150 150 Side mm 175 175 175 175 175 175	150 150 150 150 150 150 150 150 Haunch mm 175 175 175 175 175 175	0.9-1.5 3 4.6 6.1 dards/7.6/ce2a 9.1 10.7 18 Design Earth Cover m 0-0.6 0.6-0.9 0.9-1.5 3 4.6 6.1 7.6 9.1 10.7	300 300 300 320 470 560 300 by 900 b 	360 430 580 750 890 1060 1230 y 175 mm A _{s2} 960 640 360 430 580 750 940 1100 1270	390 450 600 770 940 1080 1250 Circumfere A _{s3} 430 430 430 600 770 940 1100 1270	300 300 300 300 300 300 300 300	rcement Area	as, mm²/m A _{s7}	A _{s8}	1150 1150 920 890 890 890 890 "M," mm 1100 1020 1000 970 970
1500 1500 1500 1500 1500 1500 Span mm 1800 1800 1800 1800 1800 1800 1800 1	1500 1500 1500 1500 1500 1500 1500 1500	150 150 150 150 150 150 150 150 Top mm 200 175 175 175 175 175 175 175	150 150 150 150 150 150 150 150 150 150	150 150 150 150 150 150 150 Side mm 175 175 175 175 175 175 175 175 175 175	150 150 150 150 150 150 150 Haunch mm 175 175 175 175 175 175 175 175 175	0.9-1.5 3 4.6 6.1 dards/7.6/ce2a 9.1 10.7 18 Design Earth Cover m 0-0.6 0.6-0.9 0.9-1.5 3 4.6 6.1 7.6 9.1 10.7	300 300 300 320 470 560 800 by 900 b 	360 430 580 750 890 1060 1230 y 175 mm A _{s2} 960 640 360 430 580 750 940 1100 1270	390 450 600 770 1080 1250 Circumfere A _{s3} 430 430 430 600 770 940 1100 1270	300 300 300 300 300 300 300 300 ential Reinfo A _{s4} 360 360 360 360 360 360 360	rcement Area A ₈₅ 410	as, mm²/m A _{s,7} 410	A _{s8} 360	1150 1150 920 6b 890 890 890 "M," mm 1100 1020 1000 970 970 970
1500 1500 1500 1500 1500 1500 Span mm 1800 1800 1800 1800 1800 1800 1800 1	1500 1500 1500 1500 1500 1500 1500 Pisse mm 900 900 900 900 900 900 900 900 900	150 150 150 150 150 150 150 Top mm 200 175 175 175 175 175 175 175	150 150 150 150 150 150 150 150 150 150	150 150 150 150 150 150 150 Side mm 175 175 175 175 175 175 175 175 175 175	150 150 150 150 150 150 150 150 150 Haunch mm 175 175 175 175 175 175 175 175 175 175	0.9-1.5 3 4.6 6.1 dards/7.6/ce2a 9.1 10.7 Design Earth Cover m 0-0.6 0.6-0.9 0.9-1.5 3 4.6 6.1 7.6 9.1 10.7 18 Design Earth Cover	300 300 300 320 470 560 800 by 900 b 	360 430 580 750 890 1060 1230 y 175 mm A _{s2} 960 640 360 430 580 750 940 1100 1270 by 175 mm	390 450 600 770 1080 1250 Circumfere A _{s3} 430 430 600 770 940 1100 1270	300 300 300 300 300 300 300 300	rcement Area A ₈₅ 410	as, mm²/m A _{s/} 410	A _{s8} 360	1150 1150 920 890 890 890 890 "M," mm 1100 1020 1000 970 970 970 970
1500 1500 1500 1500 1500 1500 Span mm 1800 1800 1800 1800 1800 1800 1800 Span mm	1500 1500 1500 1500 1500 1500 1500 700 900 900 900 900 900 900 900 900 9	150 150 150 150 150 150 150 Top mm 200 175 175 175 175 175 175 175	150 150 150 150 150 150 150 150 150 150	150 150 150 150 150 150 150 150 Side mm 175 175 175 175 175 175 175 175	150 150 150 150 150 150 150 150 150 150	0.9-1.5 3 4.6 6.1 7.6 9.1 10.7 18 Design Earth Cover m 0-0.6 0.6-0.9 0.9-1.5 3 4.6 6.1 7.6 9.1 10.7 18 Design Earth Cover m	300 300 300 320 470 560 800 by 900 b 	360 430 430 750 890 1060 1230 y 175 mm A _{s2} 960 640 360 430 580 750 940 1100 1270 by 175 mm	390 450 600 770 1080 1250 Circumfere A _{s3} 430 430 600 770 940 1100 1270 Circumfere A _{s3}	300 300 300 300 300 300 300 300	rcement Area A _{S5} 410	as, mm²/m A _{s7} 410 as, mm²/m A _{s7}	A _{s8} 360	1150 1150 920 6b 890 890 890 "M," mm 1100 1020 1000 970 970 970
1500 1500 1500 1500 1500 1500 1500 Span mm 1800 1800 1800 1800 1800 1800 1800 1	1500 1500 1500 1500 1500 1500 1500 1500	150 150 150 150 150 150 150 150 Top mm 200 175 175 175 175 175 175 175 175	150 150 150 150 150 150 150 150 150 150	150 150 150 150 150 150 150 150 150 175 175 175 175 175 175 175 175 175 175	150 150 150 150 150 150 150 150 150 175 175 175 175 175 175 175 175 175 175	0.9-1.5 3 4.6 6.1 dards/7.6/ce2a 9.1 10.7 18 Design Earth Cover m 0-0.6 0.6-0.9 0.9-1.5 3 4.6 6.1 7.6 9.1 10.7 180 Design Earth Cover m 0-0.6	300 300 300 320 470 560 300 by 900 b 	360 430 580 750 750 1060 1230 y 175 mm A _{s2} 960 640 360 430 580 750 940 1100 1270 oy 175 mm	390 450 600 770 940 1080 1250 Circumfere A _{s3} 430 430 430 600 770 940 1100 1270	300 300 300 300 300 300 300 A _{s4} 360 360 360 360 360 360 360 360	rcement Area A ₈₅ 410	as, mm²/m A _{s/} 410	A _{s8} 360	1150 1150 920 890 890 890 890 "M," mm 1100 1020 1000 970 970 970 970 970
1500 1500 1500 1500 1500 1500 1500 Span mm 1800 1800 1800 1800 1800 1800 1800 1	1500 1500 1500 1500 1500 1500 1500 1500	150 150 150 150 150 150 150 150 175 175 175 175 175 175 175 175 175 175	150 150 150 150 150 150 150 150 150 150	150 150 150 150 150 150 150 150 175 175 175 175 175 175 175 175 175 175	150 150 150 150 150 150 150 150 150 175 175 175 175 175 175 175 175 175 175	0.9-1.5 3 4.6 6.1 dards 7.6 / ce2 a 9.1 10.7 18 Design Earth Cover m 0-0.6 0.6-0.9 0.9-1.5 3 4.6 6.1 7.6 9.1 10.7 18 Design Earth Cover m 0-0.6 0.6-0.9	300 300 300 320 470 560 300 by 900 b 	360 430 580 7580 7580 7580 7580 1060 1230 y 175 mm A _{s2} 960 640 360 430 580 750 940 1100 1270 by 175 mm A _{s2}	390 450 600 770 940 1080 1250 Circumfere A _{s3} 430 430 430 600 770 940 1100 1270 Circumfere A _{s3}	300 300 300 300 300 300 300 200 2	rcement Area A _{S5} 410	as, mm²/m A _{s7} 410 as, mm²/m A _{s7}	A _{s8} 360	1150 1150 920 890 890 890 890 "M," mm 1100 1020 1000 970 970 970 970 970 970
1500 1500 1500 1500 1500 1500 Span mm 1800 1800 1800 1800 1800 1800 1800 1	1500 1500 1500 1500 1500 1500 1500 1500	150 150 150 150 150 150 150 150 175 175 175 175 175 175 175 175 175 175	150 150 150 150 150 150 150 150 150 150	150 150 150 150 150 150 150 150 150 175 175 175 175 175 175 175 175 175 175	150 150 150 150 150 150 150 150 150 175 175 175 175 175 175 175 175 175 175	0.9-1.5 3 4.6 6.1 dards/7.6/ce2a 9.1 10.7 18 Design Earth Cover m 0-0.6 0.6-0.9 0.9-1.5 3 4.6 6.1 7.6 9.1 10.7 18 Design Earth Cover m 0-0.6 0.6-0.9 0.9-1.5	300 300 300 300 310 320 470 560 300 by 900 b 	360 430 7580 750 2 890 1060 1230 y 175 mm A _{s2} 960 640 360 430 580 750 940 1100 1270 by 175 mm A _{s2} 1040 700 360	390 450 600 770 940 1080 1250 Circumfere A _{s3} 430 430 430 600 770 940 1100 1270 Circumfere A _{s3} 490 490 360	300 300 300 300 300 300 300 300	rcement Area A _{S5} 410	as, mm²/m A _{s7} 410 as, mm²/m A _{s7}	A _{s8} 360	1150 1150 920 890 890 890 890 "M," mm 1100 1020 1000 970 970 970 970 970 970
1500 1500 1500 1500 1500 1500 Span mm 1800 1800 1800 1800 1800 1800 1800 1	1500 1500 1500 1500 1500 1500 1500 1500	150 150 150 150 150 150 150 150 150 175 175 175 175 175 175 175 175 175 175	150 150 150 150 150 150 150 150 150 150	150 150 150 150 150 150 150 150 Side mm 175 175 175 175 175 175 175 175 175 175	150 150 150 150 150 150 150 150 Haunch mm 175 175 175 175 175 175 175 175 175 175	0.9-1.5 3 4.6 6.1 dards/7.6/ce2a 9.1 10.7 18 Design Earth Cover m 0-0.6 0.6-0.9 0.9-1.5 3 4.6 6.1 7.6 9.1 10.7 180 Design Earth Cover m 0-0.6 0.6-0.9 0.9-1.5 3 3 4.6 3 4.6 3 4.6 3 4.6 3 4.7 3 4.6 3 4.7 3 4.6 3 4.7 3 4.6 3 4.7 3 4.6 3 4.7 3 4.6 3 4.7 3 4.6 3 4.7 3 4.6 3 4.7 3 4.6 3 4.7 3 4.6 3 4.7 3 4.6 3 4.7 3 4.6 3 4.7 3 4.6 3 4.7 3 4.6 3 4.7 3 4.6 3 4.7 3 4.6 3 4.7 3 4.6 3 4.7	300 300 300 320 470 560 300 by 900 b 	360 430 750 890 1060 1230 y 175 mm A _{s2} 960 640 360 430 580 750 940 1100 1270 y 175 mm A _{s2} 1040 700 360 470	390 450 600 770 940 1080 1250 Circumfere A _{s3} 430 430 600 770 940 1100 1270 Circumfere A _{s3} 490 490	300 300 300 300 300 300 300 300	rcement Area A _{S5} 410	as, mm²/m A _{s7} 410 as, mm²/m A _{s7}	A _{s8} 360	1150 1150 920 890 890 890 890 "M," mm 1100 1020 1000 970 970 970 970 970 970 970
1500 1500 1500 1500 1500 1500 Span mm 1800 1800 1800 1800 1800 1800 1800 1	1500 1500 1500 1500 1500 1500 1500 1500	150 150 150 150 150 150 150 150 Top mm 200 175 175 175 175 175 175 175 175 175 175	150 150 150 150 150 150 150 150 150 150	150 150 150 150 150 150 150 Side mm 175 175 175 175 175 175 175 175 175 175	150 150 150 150 150 150 150 150 Haunch mm 175 175 175 175 175 175 175 175 175 175	0.9-1.5 3 4.6 6.1 dards/7.6/ce2a 9.1 10.7 18 Design Earth Cover m 0-0.6 0.6-0.9 0.9-1.5 3 4.6 6.1 7.6 9.1 10.7 18 Design Earth Cover m 0-0.6 0.6-0.9 0.9-1.5 3 4.6 3 4.6 4.6 4.1 7.6 9.1 10.7	300 300 300 320 410 600 560 800 by 900 b 	360 430 580 750 890 1060 1230 y 175 mm A _{s2} 960 640 360 430 580 750 940 1100 1270 by 175 mm A _{s2} 1040 700 360 470 640	390 450 600 770 1080 1250 Circumfere A _{s3} 430 430 600 770 940 1100 1270 Circumfere A _{s3} 490 490 490 660	300 300 300 300 300 300 300 300	rcement Area A _{S5} 410	as, mm²/m A _{s7} 410 as, mm²/m A _{s7}	A _{s8} 360	1150 1150 920 890 890 890 890 "M," mm 1100 1020 1000 970 970 970 970 970 970 970 970
1500 1500 1500 1500 1500 1500 Span mm 1800 1800 1800 1800 1800 1800 1800 1	1500 1500 1500 1500 1500 1500 1500 1500	150 150 150 150 150 150 150 Top mm 200 175 175 175 175 175 175 175 175 175 175	150 150 150 150 150 150 150 150 150 150	150 150 150 150 150 150 150 Side mm 175 175 175 175 175 175 175 175 175 175	150 150 150 150 150 150 150 150 150 Haunch mm 175 175 175 175 175 175 175 175 175 175	0.9-1.5 3 4.6 6.1 0.7.6 0-0.6 0.6-0.9 0.9-1.5 3 4.6 6.1 7.6 9.1 10.7 18 Design Earth Cover m 0-0.6 0.6-0.9 0.9-1.5 3 4.6 6.1 7.6 9.1 10.7 18 Design Earth Cover m 0-0.6 0.6-0.9 0.9-1.5 3 4.6 6.1 6.1	300 300 300 320 410 560 300 by 900 b 	360 430 430 580 750 890 1060 1230 y 175 mm A _{s2} 960 640 360 430 580 750 940 1100 1270 by 175 mm A _{s2} 1040 700 360 470 640 830	390 450 600 770 1080 1250 Circumfere A _{s3} 430 430 430 600 770 940 1100 1270 Circumfere A _{s3} 490 490 360 490 660 850	300 300 300 300 300 300 300 300 300 300	rcement Area A _{S5} 410	as, mm²/m A _{s7} 410 as, mm²/m A _{s7}	A _{s8} 360	1150 1150 920 890 890 890 890 "M," mm 1100 1020 1000 970 970 970 970 "M," mm 1100 1020 1000 970 970
1500 1500 1500 1500 1500 1500 1500 1800 18	1500 1500 1500 1500 1500 1500 1500 1500	150 150 150 150 150 150 150 150 175 175 175 175 175 175 175 175 175 175	150 150 150 150 150 150 150 150 150 150	150 150 150 150 150 150 150 150 150 175 175 175 175 175 175 175 175 175 175	150 150 150 150 150 150 150 150 150 175 175 175 175 175 175 175 175 175 175	0.9-1.5 3 4.6 6.1 dards/7.6/ce2a 9.1 10.7 18 Design Earth Cover m 0-0.6 0.6-0.9 0.9-1.5 3 4.6 6.1 7.6 9.1 10.7 18 Design Earth Cover m 0-0.6 0.6-0.9 0.9-1.5 3 4.6 6.1 7.6 9.1 10.7	300 300 300 320 470 560 300 by 900 b 	360 430 580 780 780 1060 1230 y 175 mm A _{s2} 960 640 360 430 580 750 940 1100 1270 oy 175 mm A _{s2} 1040 700 360 470 640 830 1020	390 450 600 770 1080 1250 Circumfere A _{s3} 430 430 430 600 770 940 1100 1270 Circumfere A _{s3} 490 490 360 490 660 850 1040	300 300 300 300 300 300 300 A _{s4} 360 360 360 360 360 360 360 360	rcement Area A _{S5} 410	as, mm²/m A _{s7} 410 as, mm²/m A _{s7}	A _{s8} 360	1150 1150 920 6b 890 890 890 890 "M," mm 1100 1020 1000 970 970 970 970 1100 1020 1000 970 970 970
1500 1500 1500 1500 1500 1500 Span mm 1800 1800 1800 1800 1800 1800 1800 1	1500 1500 1500 1500 1500 1500 1500 1500	150 150 150 150 150 150 150 150 175 175 175 175 175 175 175 175 175 175	150 150 150 150 150 150 150 150 150 150	150 150 150 150 150 150 150 150 175 175 175 175 175 175 175 175 175 175	150 150 150 150 150 150 150 150 150 175 175 175 175 175 175 175 175 175 175	0.9-1.5 3 4.6 6.1 dards/7.6/ce2a 9.1 10.7 18 Design Earth Cover m 0-0.6 0.6-0.9 0.9-1.5 3 4.6 6.1 7.6 9.1 10.7 18 Design Earth Cover m 0-0.6 0.6-0.9 0.9-1.5 3 4.6 6.1 7.6 9.1 10.7	300 300 300 320 470 560 300 by 900 b 	360 430 7580 7590 2 890 9 1060 1230 y 175 mm A _{S2} 960 640 360 430 580 750 940 1100 1270 by 175 mm A _{S2} 1040 700 360 470 640 830 1020 1210	390 450 600 770 940 1080 1250 Circumfere A _{s3} 430 430 430 600 770 940 1100 1270 Circumfere A _{s3} 490 490 360 490 660 850 1040 1230	300 300 300 300 300 300 300 300	rcement Area A _{S5} 410	as, mm²/m A _{s7} 410 as, mm²/m A _{s7}	A _{s8} 360	1150 1150 920 890 890 890 890 "M," mm 1100 1020 1000 970 970 970 970 970 1100 1020 1000 970 970 970
1500 1500 1500 1500 1500 1500 Span mm 1800 1800 1800 1800 1800 1800 1800 1	1500 1500 1500 1500 1500 1500 1500 1500	150 150 150 150 150 150 150 150 175 175 175 175 175 175 175 175 175 175	150 150 150 150 150 150 150 150 150 150	150 150 150 150 150 150 150 150 150 175 175 175 175 175 175 175 175 175 175	150 150 150 150 150 150 150 150 150 175 175 175 175 175 175 175 175 175 175	0.9-1.5 3 4.6 6.1 dards/7.6/ce2a 9.1 10.7 18 Design Earth Cover m 0-0.6 0.6-0.9 0.9-1.5 3 4.6 6.1 7.6 9.1 10.7 18 Design Earth Cover m 0-0.6 0.6-0.9 0.9-1.5 3 4.6 6.1 7.6 9.1 10.7	300 300 300 310 320 470 560 300 by 900 b 	360 430 750 2 890 1060 1230 y 175 mm A _{s2} 960 640 360 430 580 750 940 1100 1270 by 175 mm A _{s2} 1040 700 360 470 640 830 1020 1210 1400	390 450 600 770 1080 1250 Circumfere A _{s3} 430 430 430 430 600 770 940 1100 1270 Circumfere A _{s3} 490 490 490 660 850 1040 1230 1420	300 300 300 300 300 300 300 A _{s4} 360 360 360 360 360 360 360 360	rcement Area A _{S5} 410	as, mm²/m A _{s7} 410 as, mm²/m A _{s7}	A _{s8} 360	1150 1150 920 6b 890 890 890 890 "M," mm 1100 1020 1000 970 970 970 970 1100 1020 1000 970 970 970
1500 1500 1500 1500 1500 1500 Span mm 1800 1800 1800 1800 1800 1800 1800 1	1500 1500 1500 1500 1500 1500 1500 1500	150 150 150 150 150 150 150 150 175 175 175 175 175 175 175 175 175 175	150 150 150 150 150 150 150 150 150 150	150 150 150 150 150 150 150 150 150 175 175 175 175 175 175 175 175 175 175	150 150 150 150 150 150 150 150 150 Haunch mm 175 175 175 175 175 175 175 175 175 175	0.9-1.5 3 4.6 6.1 dards/7.6/ce2a 9.1 10.7 18 Design Earth Cover m 0-0.6 0.6-0.9 0.9-1.5 3 4.6 6.1 7.6 9.1 10.7 180 Design Earth Cover m 0-0.6 0.6-0.9 0.9-1.5 3 4.6 6.1 7.6 9.1 10.7 180 10.7 180 10.7	300 300 300 320 470 560 300 by 900 b 470 560 360 490 640 770 920 1060 00 by 1200 b 410 450 360 360 490 640 770 920 1060 00 by 1200 b	360 430 750 2 890 1060 1230 y 175 mm A _{s2} 960 640 360 430 580 750 940 1100 1270 by 175 mm A _{s2} 1040 700 360 470 640 830 1020 1210 1400	390 450 600 770 1080 1250 Circumfere A _{s3} 430 430 430 430 600 770 940 1100 1270 Circumfere A _{s3} 490 490 660 850 1040 1230 1420	300 300 300 300 300 300 300 300 300 300	rcement Area A _{s5} 410 rcement Area A _{s5} 450	as, mm²/m A _{s7} 410 as, mm²/m A _{s7} 410	A _{s8} 360 A _{s8} 360	1150 1150 920 890 890 890 890 "M," mm 1100 1020 1000 970 970 970 970 970 1100 1020 1000 970 970 970
1500 1500 1500 1500 1500 1500 1500 1800 18	1500 1500 1500 1500 1500 1500 1500 1500	150 150 150 150 150 150 150 150 150 175 175 175 175 175 175 175 175 175 175	150 150 150 150 150 150 150 150 150 150	150 150 150 150 150 150 150 150 150 175 175 175 175 175 175 175 175 175 175	150 150 150 150 150 150 150 150 150 150	0.9-1.5 3 4.6 6.1 dards/7.6/ce2a 9.1 10.7 18 Design Earth Cover m 0-0.6 0.6-0.9 0.9-1.5 3 4.6 6.1 7.6 9.1 10.7 180 Design Earth Cover m 0-0.6 0.6-0.9 0.9-1.5 3 4.6 6.1 7.6 9.1 10.7 180 Design Earth Cover m 0-0.6 0.6-0.9 0.9-1.5 3 4.6 6.1 7.6 9.1 10.7	300 300 300 320 470 560 300 by 900 b 470 560 300 by 900 b 490 510 360 360 490 640 770 920 1060 00 by 1200 b 410 450 360 360 430 530 640 770 920 1060 360 360 490 500 by 1200 b	360 430 430 580 750 890 1060 1230 y 175 mm A _{s2} 960 640 360 430 580 750 940 1100 1270 oy 175 mm A _{s2} 1040 700 360 470 640 830 1020 1210 1400 oy 175 mm	390 450 600 770 1080 1250 Circumfere A _{s3} 430 430 430 600 770 940 1100 1270 Circumfere A _{s3} 490 490 660 850 1040 1230 1420 Circumfere	300 300 300 300 300 300 300 300 300 300	rcement Area A _{S5} 410 rcement Area A _{S5} 450	as, mm²/m A _{s7} 410 as, mm²/m A _{s7} 410	A _{s8} 360	1150 1150 1150 920 890 890 890 890 "M," mm 1100 1020 1000 970 970 970 970 1100 1020 1000 970 970 970 970 970 970
1500 1500 1500 1500 1500 1500 Span mm 1800 1800 1800 1800 1800 1800 1800 1	1500 1500 1500 1500 1500 1500 1500 1500	150 150 150 150 150 150 150 150 175 175 175 175 175 175 175 175 175 175	150 150 150 150 150 150 150 150 150 150	150 150 150 150 150 150 150 150 150 175 175 175 175 175 175 175 175 175 175	150 150 150 150 150 150 150 150 150 Haunch mm 175 175 175 175 175 175 175 175 175 175	0.9-1.5 3 4.6 6.1 dards/7.6/ce2a 9.1 10.7 18 Design Earth Cover m 0-0.6 0.6-0.9 0.9-1.5 3 4.6 6.1 7.6 9.1 10.7 180 Design Earth Cover m 0-0.6 0.6-0.9 0.9-1.5 3 4.6 6.1 7.6 9.1 10.7 180 10.7 180 10.7	300 300 300 320 470 560 300 by 900 b 470 560 360 490 640 770 920 1060 00 by 1200 b 410 450 360 360 490 640 770 920 1060 00 by 1200 b	360 430 750 2 890 1060 1230 y 175 mm A _{s2} 960 640 360 430 580 750 940 1100 1270 by 175 mm A _{s2} 1040 700 360 470 640 830 1020 1210 1400	390 450 600 770 1080 1250 Circumfere A _{s3} 430 430 430 430 600 770 940 1100 1270 Circumfere A _{s3} 490 490 660 850 1040 1230 1420	300 300 300 300 300 300 300 300 300 300	rcement Area A _{s5} 410 rcement Area A _{s5} 450	as, mm²/m A _{s7} 410 as, mm²/m A _{s7} 410	A _{s8} 360 A _{s8} 360	1150 1150 920 890 890 890 890 "M," mm 1100 1020 1000 970 970 970 970 970 1100 1020 1000 970 970 970



1800	1500	175	175	175	175	0.6-0.9	410	770	550	360				1330
1800	1500	175	175	175	175	0.9-1.5	360	410	410	360				1100
1800 1800	1500 1500	175 175	175 175	175 175	175 175	3 4.6	360 360	490 680	510 700	360 360				1000 970
1800	1500	175	175	175	175	6.1	470	870	910	360				970
1800	1500	175	175	175	175	7.6	550	1080	1110	360				970
1800	1500	175	175	175	175	9.1	660	1270	1300	360				970
1800	1500	175	175	175	175	10.7	770	1460	1510	360				970
							800 by 1800 b	oy 175 mm				2,		
Span	Rise	Top	Bottom	Side	Haunch	Design Earth Cove		Λ		rential Reinfor			Λ.	"M," mm
	mm 1800	200	mm 175	mm 175	mm 175	0-0.6	A _{s1} 410	A _{s2}	A _{s3} 580	A _{s4} 360	A _{s5} 490	A _{s7} 410	A _{s8} 360	IVI, IIIIII
1800	1800	175	175	175	175	0.6-0.9	360	810	600	360	400	410	000	1330
1800	1800	175	175	175	175	0.9-1.5	360	430	430	360				1330
1800	1800	175	175	175	175	3	360	510	550	360				1100
1800	1800	175	175	175	175	4.6	360	700	750	360				1000
1800	1800	175	175	175	175	6.1	410	910	940	360				970
1800	1800	175	175	175	175	7.6	490	1110	1150	360				970
1800 1800	1800 1800	175 175	175 175	175 175	175 175	9.1 10.7	580 680	1300 1510	1340 1550	360 360				970 970
1000	1600	175	175	175	175		100 by 1200 l			300				970
Span	Rise	Тор	Bottom	Side	Haunch	Design Earth Cove		Jy 200 IIIII		rential Reinfor	cement Are	eas, mm²/m		
mm	mm	mm	mm	mm	mm	m	A _{s1}	A _{s2}	A_{s3}	A_{s4}	A_{s5}	A _{s7}	A _{s8}	"M," mm
2100	1200	200	200	200	200	0-0.6	550	1040	450	410	410	410	410	
2100	1200	200	200	200	200	0.6-0.9	510	700	470	410				1200
2100	1200	200	200	200	200	0.9-1.5	410	410	410	410				1100
2100 2100	1200 1200	200 200	200 200	200 200	200 200	3 4.6	410 550	530 720	530 740	410 410				1100 1050
2100	1200	200	200	200	200	6.1	700	940	960	410				1050
2100	1200	200	200	200	200	7.6	850	1150	1170	410				1050
2100	1200	200	200	200	200	9.1	1000	1360	1380	410				1050
2100	1200	200	200	200	200	10.7	1170	1590	1590	410				1050
							100 by 1500 l	y 200 mm						
Span	Rise	Top	Bottom	Side	Haunch	Design Earth Cove		Aar		rential Reinfor	cement Are		Α.	66 A 22
2100	mm 1500	mm 200	mm 200	mm 200	mm 200	0-0.6	490	A _{s2}	510	A _{s4} 410	A _{s5} 450	A _{s7} 410	A _{s8} 410	"M," mm
2100	1500	200	200	200	200	0.6-0.9	470	770	530	410	430	410	410	1500
2100	1500	200	200	200	200	0.9-1.5	410	430	430	410				1100
2100	1500	200	200	200	200	3	410	580	600	410				1100
2100	1500	200	200	200	200	4.6	490	790	810	410				1050
2100	1500	200	200	200	200	6.1	620	1020	1040	410				1050
2100		200	200	200	200	7.6	740	1230	1250	410				1050
	1500													
2100	1500	200	200	200	200	9.1	870	1460	1490	410				1050
2100 2100					200 200	9.1 10.7	1000	1700	1490 1720	410 410				1050 1050
2100	1500 1500	200 200	200 200	200 200	200	9.1 10.7	1000 100 by 1800 l	1700	1490 1720	410	cement Are	eas. mm²/m		
	1500	200	200	200		9.1 10.7	1000 100 by 1800 l	1700	1490 1720		cement Are		A _{s8}	
2100 Span mm 2100	1500 1500 Rise mm 1800	200 200 Top mm 200	200 200 Bottom 200	200 200 Side mm 200	Haunch mm 200	9.1 10.7 2 Design Earth Cove m 0-0.6	1000 100 by 1800 ber A _{s1} 450	1700 by 200 mm A _{s2} 1150	1490 1720 I Circumfel - (A _{s3} 550	410 rential Reinfor A _{s4} 410		eas, mm²/m A _{s7} 4 410	A _{s8} 410	1050 "M," mm
2100 Span mm 2100 2100	1500 1500 Rise mm 1800 1800	200 200 Top mm 200 200	200 200 Bottom mm 200 200	200 200 Side mm 200 200	200 Haunch mm 200 200	9.1 10.7 2 Design Earth Cove m 0-0.6 0.6-0.9	1000 100 by 1800 ber 450 430	1700 by 200 mm A _{s2} 1150 830	1490 1720 Circumfer 550 580	410 rential Reinfor A _{s4} 410 410	A _{s5}	Str A _{s7} 4		1050 6 "M," mm
2100 Span mm 2100 2100 2100	1500 1500 Rise mm 1800 1800 1800	200 200 Top mm 200 200 200	200 200 Bottom 200 200 200	200 200 Side mm 200 200 200	200 Haunch 200 200 200	9.1 10.7 2 Design Earth Cove m 0-0.6 0.6-0.9 0.9-1.5	1000 100 by 1800 ber A _{s1} 450 430 410	1700 by 200 mm A _{s2} 1150 830 470	1490 1720 Circumfer - (A _{s3} - 550 580 470	410 rential Reinfor A _{s4} 410 410 410	A _{s5}	Str A _{s7} 4		1050 "M," mm 1500 1200
Span mm 2100 2100 2100 2100	1500 1500 Rise mm 1800 1800 1800 1800	200 200 Top mm 200 200 200 200	200 200 Bottom mm 200 200 200 200 200	200 200 Side mm 200 200 200 200	200 Haunch mm 200 200 200 200 200	9.1 10.7 2 Design Earth Cove m 0-0.6 0.6-0.9 0.9-1.5 3	1000 100 by 1800 b er 450 430 410 410	1700 by 200 mm A _{s2} 1150 830 470 600	1490 1720 Circumfer - A _{s3} 550 580 470 640	410 rential Reinfor A _{s4} 410 410 410 410	A _{s5}	Str A _{s7} 4		1050 "M," mm 1500 1200 1100
Span mm 2100 2100 2100 2100 2100 2100	1500 1500 Rise mm 1800 1800 1800 1800 1800	200 200 Top mm 200 200 200 200 200 200	200 200 Bottom 200 200 200 200 200 200	200 200 Side mm 200 200 200 200 200 200	200 Haunch mm 200 200 200 200 200 200	9.1 10.7 2 Design Earth Cove m 0-0.6 0.6-0.9 0.9-1.5 3 4.6	1000 100 by 1800 b Pr 450 430 410 410 430	1700 200 mm A _{s2} 1150 830 470 600 830	1490 1720 Circumfel - (A _{s3} 550 580 470 640 850	410 rential Reinfor A _{s4} 410 410 410 410 410 410	A _{s5}	Str A _{s7} 4		1050 "M," mm 1500 1200 1100 1050
Span mm 2100 2100 2100 2100 2100 2100 2100	1500 1500 1500 Rise mm 1800 1800 1800 1800 1800 1800	200 200 Top mm 200 200 200 200 200 200 200	200 200 Bottom mm 200 200 200 200 200 200 200	200 200 Side mm 200 200 200 200 200 200 200	Haunch mm 200 200 200 200 200 200 200 200 200	9.1 10.7 2 Design Earth Cove m 0-0.6 0.6-0.9 0.9-1.5 3 4.6 6.1	1000 100 by 1800 b er A _{s1} 450 430 410 410 430 550	1700 by 200 mm A _{s2} 1150 830 470 600 830 1060	1490 1720 Circumfel - (A _{s3} - 550 580 470 640 850 1080	410 rential Reinfor A ₉₄ 410 410 410 410 410 410 410	A _{s5}	Str A _{s7} 4		1050 "M," mm 1500 1200 1100 1050 1050
Span mm 2100 2100 2100 2100 2100 2100	1500 1500 Rise mm 1800 1800 1800 1800 1800	200 200 Top mm 200 200 200 200 200 200	200 200 Bottom 200 200 200 200 200 200	200 200 Side mm 200 200 200 200 200 200	200 Haunch mm 200 200 200 200 200 200	9.1 10.7 2 Design Earth Cove m 0-0.6 0.6-0.9 0.9-1.5 3 4.6	1000 100 by 1800 b Pr 450 430 410 410 430	1700 200 mm A _{s2} 1150 830 470 600 830	1490 1720 Circumfel - (A _{s3} 550 580 470 640 850	410 rential Reinfor A _{s4} 410 410 410 410 410 410	A _{s5}	Str A _{s7} 4		1050 "M," mm 1500 1200 1100 1050
Span mm 2100 2100 2100 2100 2100 2100 2100 2	1500 1500 Rise mm 1800 1800 1800 1800 1800 1800	200 200 Top mm 200 200 200 200 200 200 200 200	200 200 Bottom mm 200 200 200 200 200 200 200 200	200 200 Side mm 200 200 200 200 200 200 200 200	200 Haunch mm 200 200 200 200 200 200 200 200 200	9.1 10.7 2 Design Earth Cove m 0-0.6 0.6-0.9 0.9-1.5 3 4.6 6.1 7.6 9.1 10.7	1000 100 by 1800 b As1 450 430 410 410 430 550 660 770 890	1700 A _{S2} 1150 830 470 600 830 1060 1300 1530 1760	1490 1720 Circumfel A _{s3} 550 580 470 640 850 1080 1320 1550 1800	410 rential Reinfor A ₉₄ 410 410 410 410 410 410 410 410	A _{s5}	Str A _{s7} 4		1050 "M," mm 1500 1200 1100 1050 1050 1050
2100 Span mm 2100 2100 2100 2100 2100 2100 2100 2100 2100 2100	Rise mm 1800 1800 1800 1800 1800 1800 1800 1	200 200 Top mm 200 200 200 200 200 200 200 200 200	200 200 Bottom 200 200 200 200 200 200 200 200 200 20	200 200 Side mm 200 200 200 200 200 200 200 200 200 2	200 Haunch mm 200 200 200 200 200 200 200 200 200	9.1 10.7 2 Design Earth Cove m 0-0.6 0.6-0.9 0.9-1.5 3 4.6 6.1 7.6 9.1 10.7	1000 100 by 1800 b A _{s1} 450 430 410 410 430 550 660 770 890 100 by 2100 b	1700 A _{S2} 1150 830 470 600 830 1060 1300 1530 1760	1490 1720 Circumfel A _{s3} 550 580 470 640 850 1080 1320 1550 1800	410 rential Reinfor A _{s4} 410 410 410 410 410 410 410 410 410 410	A _{S5} 470	A _{s7} 410		1050 "M," mm 1500 1200 1100 1050 1050 1050 1050
2100 Span mm 2100 2100 2100 2100 2100 2100 2100 2100 2100 Span	1500 1500 1500 Rise mm 1800 1800 1800 1800 1800 1800 1800 18	200 200 Top mm 200 200 200 200 200 200 200 200 200	200 200 Bottom mm 200 200 200 200 200 200 200 200 200	200 200 Side mm 200 200 200 200 200 200 200 200 200 200	200 Haunch mm 200 200 200 200 200 200 200 200 200	9.1 10.7 Design Earth Cove m 0-0.6 0.6-0.9 0.9-1.5 3 4.6 6.1 7.6 9.1 10.7	1000 100 by 1800 b Pr 450 430 410 410 430 550 660 770 890 100 by 2100 b	1700 200 mm A _{s2} 1150 830 470 600 830 1060 1300 1530 1760 200 mm	1490 1720 Circumfee A _{s3} 550 580 470 640 850 1080 1320 1550 1800 Circumfee	410 rential Reinfor A _{s4} 410 410 410 410 410 410 410 410 410 410	A _{s5} 470	A _{s7} 410	410	1050 "M," mm 1500 1200 1100 1050 1050 1050 1050 105
2100 Span mm 2100 2100 2100 2100 2100 2100 2100 2100 2100 Span mm	1500 1500 1500 Rise mm 1800 1800 1800 1800 1800 1800 1800 1	200 200 Top mm 200 200 200 200 200 200 200 200 200 Top mm	200 200 Bottom mm 200 200 200 200 200 200 200 200 200	200 200 Side mm 200 200 200 200 200 200 200 200 200	200 Haunch mm 200 200 200 200 200 200 200 200 200 Haunch mm	9.1 10.7 Design Earth Cove m 0-0.6 0.6-0.9 0.9-1.5 3 4.6 6.1 7.6 9.1 10.7 2 Design Earth Cove	1000 100 by 1800 b Pr 450 430 410 410 430 550 660 770 890 100 by 2100 b	1700 200 mm A _{s2} 1150 830 470 600 830 1060 1300 1530 1760 200 mm A _{s2}	1490 1720 Circumfel A _{s3} 550 580 470 640 850 1080 1320 1550 1800 Circumfel A _{s3}	410 rential Reinfor A _{s4} 410 410 410 410 410 410 410 410 410 410	A _{s5} 470 cement Are A _{s5}	A _{s7} 410 eas, mm²/m A _{s7}	410 A _{s8}	1050 "M," mm 1500 1200 1100 1050 1050 1050 1050
2100 Span mm 2100 2100 2100 2100 2100 2100 2100 21	1500 1500 1500 Rise mm 1800 1800 1800 1800 1800 1800 1800 1	200 200 200 Top mm 200 200 200 200 200 200 200 200 200	200 200 Bottom 200 200 200 200 200 200 200 200 200 20	200 200 Side mm 200 200 200 200 200 200 200 200 Side mm 200	200 Haunch mm 200 200 200 200 200 200 200 200 Haunch mm 200	9.1 10.7 2 Design Earth Cove m 0-0.6 0.6-0.9 0.9-1.5 3 4.6 6.1 7.6 9.1 10.7 2 Design Earth Cove m	1000 100 by 1800 b Pr 450 430 410 410 430 550 660 770 890 100 by 2100 b	1700 200 mm A _{s2} 1150 830 470 600 830 1060 1300 1530 1760 200 mm A _{s2} 1190	1490 1720 Circumfer A _{s3} 550 580 470 640 850 1080 1320 1550 1800 Circumfer A _{s3} 580	410 rential Reinfor	A _{s5} 470	A _{s7} 410	410	1050 "M," mm 1500 1200 1100 1050 1050 1050 1050 105
2100 Span mm 2100 2100 2100 2100 2100 2100 2100 2	1500 1500 1500 1800 1800 1800 1800 1800	200 200 200 Top mm 200 200 200 200 200 200 200 200 200	200 200 Bottom mm 200 200 200 200 200 200 200 200 200	200 200 200 200 200 200 200 200 200 200	200 Haunch mm 200 200 200 200 200 200 200 200 200 2	9.1 10.7 2 Design Earth Cove m 0-0.6 0.6-0.9 0.9-1.5 3 4.6 6.1 7.6 9.1 10.7 2 Design Earth Cove m 0-0.6 0.6-0.9	1000 100 by 1800 b Pr 450 430 410 410 410 430 550 660 770 890 100 by 2100 b Pr A _{s1} 470 470	1700 200 mm A _{S2} 1150 830 470 600 830 1060 1300 1530 1760 200 mm A _{S2} 1190 870	1490 1720 Circumfer A _{s3} 550 580 470 640 850 1080 1320 1550 1800 Circumfer A _{s3} 580 620	410 rential Reinfor A ₈₄ 410 410 410 410 410 410 410 410 410 410	A _{s5} 470 cement Are A _{s5}	A _{s7} 410 eas, mm²/m A _{s7}	410 A _{s8}	1050 ("M," mm 1500 1200 1100 1050 1050 1050 1050 105
2100 Span mm 2100 2100 2100 2100 2100 2100 2100 2	1500 1500 1500 1800 1800 1800 1800 1800	200 200 200 Top mm 200 200 200 200 200 200 200 200 200	200 200 Bottom 200 200 200 200 200 200 200 200 200 20	200 200 Side mm 200 200 200 200 200 200 200 200 Side mm 200	200 Haunch mm 200 200 200 200 200 200 200 200 Haunch mm 200	9.1 10.7 2 Design Earth Cove m 0-0.6 0.6-0.9 0.9-1.5 3 4.6 6.1 7.6 9.1 10.7 2 Design Earth Cove m	1000 100 by 1800 b Pr 450 430 410 410 430 550 660 770 890 100 by 2100 b	1700 200 mm A _{s2} 1150 830 470 600 830 1060 1300 1530 1760 200 mm A _{s2} 1190	1490 1720 Circumfer A _{s3} 550 580 470 640 850 1080 1320 1550 1800 Circumfer A _{s3} 580	410 rential Reinfor	A _{s5} 470 cement Are A _{s5}	A _{s7} 410 eas, mm²/m A _{s7}	410 A _{s8}	1050 "M," mm 1500 1200 1100 1050 1050 1050 1050 105
Span mm 2100 2100 2100 2100 2100 2100 2100 2	1500 1500 1500 1800 1800 1800 1800 1800	200 200 200 200 200 200 200 200 200 200	Bottom 200 200 200 200 200 200 200 200 200 20	200 200 200 200 200 200 200 200 200 200	200 Haunch mm 200 200 200 200 200 200 200 200 200	9.1 10.7 2 Design Earth Cove m 0-0.6 0.6-0.9 0.9-1.5 3 4.6 6.1 7.6 9.1 10.7 2 Design Earth Cove m 0-0.6 0.6-0.9 0.9-1.5	1000 100 by 1800 b Fr 450 430 410 410 430 550 660 770 890 100 by 2100 b Fr 470 470	1700 200 mm A _{s2} 1150 830 470 600 830 1060 1300 1530 1760 200 mm A _{s2} 1190 870 490	1490 1720 Circumfel A _{s3} 550 580 470 640 850 1080 1320 1550 1800 Circumfel A _{s3} 580 620 490	410 rential Reinfor A _{s4} 410 410 410 410 410 410 410 410 410 410	A _{s5} 470 cement Are A _{s5}	A _{s7} 410 eas, mm²/m A _{s7}	410 A _{s8}	1050 "M," mm 1500 1200 1100 1050 1050 1050 1050 "M," mm 1500 1500 1200 1100
2100 Span mm 2100 2100 2100 2100 2100 2100 2100 21	1500 1500 1500 1800 1800 1800 1800 1800	200 200 200 200 200 200 200 200 200 200	200 200 200 200 200 200 200 200 200 200	200 200 200 200 200 200 200 200 200 200	Haunch mm 200 200 200 200 200 200 200 200 200	9.1 10.7 Design Earth Cove m 0-0.6 0.6-0.9 0.9-1.5 3 4.6 6.1 7.6 9.1 10.7 Design Earth Cove m 0-0.6 0.6-0.9 0.9-1.5 3 4.6 6.1	1000 100 by 1800 b Pr 450 430 410 410 430 550 660 770 890 100 by 2100 b Pr 470 470 470 470 510	1700 200 mm A _{s2} 1150 830 470 600 830 1060 1300 1530 1760 200 mm A _{s2} 1190 870 490 620 850 1080	1490 1720 Circumfer A _{s3} 550 580 470 640 850 1080 1320 1550 1800 Circumfer A _{s3} 580 620 490 660 890 1130	410 rential Reinfor A _{s4} 410 410 410 410 410 410 410 410 410 410	A _{s5} 470 cement Are A _{s5}	A _{s7} 410 eas, mm²/m A _{s7}	410 A _{s8}	1050 "M," mm 1500 1200 1100 1050 1050 1050 1050 "M," mm 1500 1500 1200 1100 1050
2100 Span mm 2100 2100 2100 2100 2100 2100 2100 2	1500 1500 1500 1800 1800 1800 1800 1800	200 200 200 200 200 200 200 200 200 200	200 200 200 200 200 200 200 200 200 200	200 200 200 200 200 200 200 200 200 200	200 Haunch mm 200 200 200 200 200 200 200 200 200 2	9.1 10.7 Design Earth Cove m 0-0.6 0.6-0.9 0.9-1.5 3 4.6 6.1 7.6 9.1 10.7 Design Earth Cove m 0-0.6 0.6-0.9 0.9-1.5 3 4.6 6.1 7.6	1000 100 by 1800 b Pr 450 430 410 410 410 430 550 660 770 890 100 by 2100 b Pr 470 470 470 470 470 470 510 600	1700 by 200 mm A _{S2} 1150 830 470 600 830 1060 1300 1530 1760 by 200 mm A _{S2} 1190 870 490 620 850 1080 1320	1490 1720 Circumfer A _{s3} 550 580 470 640 850 1080 1320 1550 1800 Circumfer A _{s3} 580 620 490 660 890 1130 1360	410 rential Reinfor A _{s4} 410 410 410 410 410 410 410 410 410 410	A _{s5} 470 cement Are A _{s5}	A _{s7} 410 eas, mm²/m A _{s7}	410 A _{s8}	1050 1500 1200 1100 1050 1050 1050 1050
2100 Span mm 2100 2100 2100 2100 2100 2100 2100 21	1500 1500 1500 1800 1800 1800 1800 1800	200 200 200 200 200 200 200 200 200 200	Bottom 200 200 200 200 200 200 200 200 200 20	200 200 200 200 200 200 200 200 200 200	200 Haunch mm 200 200 200 200 200 200 200 200 200 2	9.1 10.7 2 Design Earth Cove m 0-0.6 0.6-0.9 0.9-1.5 3 4.6 6.1 7.6 9.1 10.7 2 Design Earth Cove m 0-0.6 0.6-0.9 0.9-1.5 3 4.6 6.1 7.6 9.1	1000 100 by 1800 b 100 by 1800 b 100 by 1800 b 100 by 1800 b 100 by 100 b	1700 200 mm A _{S2} 1150 830 470 600 830 1060 1300 1530 1760 200 mm A _{S2} 1190 870 490 620 850 1080 1320 1550	1490 1720 Circumfer A _{s3} 550 580 470 640 850 1080 1320 1550 1800 Circumfer A _{s3} 580 620 490 660 890 1130 1360 1590	410 rential Reinfor A _{s4} 410 410 410 410 410 410 410 410 410 410	A _{s5} 470 cement Are A _{s5}	A _{s7} 410 eas, mm²/m A _{s7}	410 A _{s8}	1050 1500 1200 1100 1050 1050 1050 1050
2100 Span mm 2100 2100 2100 2100 2100 2100 2100 21	1500 1500 1500 1800 1800 1800 1800 1800	200 200 200 200 200 200 200 200 200 200	200 200 200 200 200 200 200 200 200 200	200 200 200 200 200 200 200 200 200 200	200 Haunch mm 200 200 200 200 200 200 200 200 200 2	9.1 10.7 Design Earth Cove m 0-0.6 0.6-0.9 0.9-1.5 3 4.6 6.1 7.6 9.1 10.7 2 Design Earth Cove m 0-0.6 0.6-0.9 0.9-1.5 3 4.6 6.1 7.6 9.1 10.7	1000 100 by 1800 b 100 by 1800 b 100 by 1800 b 150 430 410 410 430 550 660 770 890 100 by 2100 b 100 470 470 470 470 470 470 600 700 810	1700 200 mm A _{S2} 1150 830 470 600 830 1060 1300 1530 1760 200 mm A _{S2} 1190 870 490 620 850 1080 1320 1550 1780	1490 1720 Circumfel A _{s3} 550 580 470 640 850 1080 1320 1550 1800 Circumfel A _{s3} 580 620 490 660 890 1130 1360 1590 1850 1850	410 rential Reinfor A _{s4} 410 410 410 410 410 410 410 410 410 410	A _{s5} 470 cement Are A _{s5}	A _{s7} 410 eas, mm²/m A _{s7}	410 A _{s8}	1050 1500 1200 1100 1050 1050 1050 1050
Span mm 2100 2100 2100 2100 2100 2100 2100 2	1500 1500 1500 1800 1800 1800 1800 1800	200 200 200 200 200 200 200 200 200 200	Bottom mm 200 200 200 200 200 200 200 200 200	Side mm 200 200 200 200 200 200 200 200 200	200 Haunch mm 200 200 200 200 200 200 200 200 200	9.1 10.7 Design Earth Cove m 0-0.6 0.6-0.9 0.9-1.5 3 4.6 6.1 7.6 9.1 10.7 Design Earth Cove m 0-0.6 0.6-0.9 0.9-1.5 3 4.6 6.1 7.6	1000 100 by 1800 b 100 by 1800 b 150 430 410 410 430 550 660 770 890 100 by 2100 b 170 470 470 470 470 470 470 510 600 700 810 400 by 1200 b	1700 200 mm A _{S2} 1150 830 470 600 830 1060 1300 1530 1760 200 mm A _{S2} 1190 870 490 620 850 1080 1320 1550 1780	1490 1720 Circumfer A _{s3} 550 580 470 640 850 1080 1320 1550 1800 Circumfer A _{s3} 580 620 490 660 890 1130 1360 1590 1850	410 rential Reinfor A _{s4} 410 410 410 410 410 410 410 410 410 410	Cement Are A _{s5} 470	A _{s7} 410 eas, mm²/m A _{s7} 410	410 A _{s8}	1050 1500 1200 1100 1050 1050 1050 1050
2100 Span mm 2100 2100 2100 2100 2100 2100 2100 21	1500 1500 1500 1800 1800 1800 1800 1800	200 200 200 200 200 200 200 200 200 200	Bottom 200 200 200 200 200 200 200 200 200 20	200 200 200 200 200 200 200 200 200 200	200 Haunch mm 200 200 200 200 200 200 200 200 200 2	9.1 10.7 Design Earth Cove m 0-0.6 0.6-0.9 0.9-1.5 3 4.6 6.1 7.6 9.1 10.7 2 Design Earth Cove m 0-0.6 0.6-0.9 0.9-1.5 3 4.6 6.1 7.6 9.1 10.7	1000 100 by 1800 b 100 by 1800 b 100 by 1800 b 100 by 100 b 100 by 2100 b 100 by 2100 b 100 by 2100 b 100 by 100 b	1700 200 mm A _{s2} 1150 830 470 600 830 1060 1300 1530 1760 200 mm A _{s2} 1190 870 490 620 850 1080 1320 1550 1780 200 mm	1490 1720 Circumfer A _{s3} 550 580 470 640 850 1080 1320 1550 1800 Circumfer A _{s3} 580 620 490 660 890 1130 1360 1590 1850 Circumfer	410 rential Reinfor A _{s4} 410 410 410 410 410 410 410 410 410 410	A _{s5} 470 cement Are A _{s5} 470	A _{s7} 410 eas, mm²/m A _{s7} 410	A _{S8} 410	1050 1500 1200 1100 1050 1050 1050 1050
Span mm 2100 2100 2100 2100 2100 2100 2100 2	1500 1500 1500 1800 1800 1800 1800 1800	200 200 200 200 200 200 200 200 200 200	200 200 200 200 200 200 200 200 200 200	Side mm 200 200 200 200 200 200 200 200 200	200 Haunch mm 200 200 200 200 200 200 200 200 200 2	9.1 10.7 Design Earth Cove m 0-0.6 0.6-0.9 0.9-1.5 3 4.6 6.1 7.6 9.1 10.7 Design Earth Cove m 0-0.6 0.6-0.9 0.9-1.5 3 4.6 6.1 7.6 9.1 10.7	1000 100 by 1800 b 100 by 1800 b 150 430 410 410 430 550 660 770 890 100 by 2100 b 170 470 470 470 470 470 470 510 600 700 810 400 by 1200 b	1700 200 mm A _{S2} 1150 830 470 600 830 1060 1300 1530 1760 200 mm A _{S2} 1190 870 490 620 850 1080 1320 1550 1780	1490 1720 Circumfer A _{s3} 550 580 470 640 850 1080 1320 1550 1800 Circumfer A _{s3} 580 620 490 660 890 1130 1360 1590 1850	410 rential Reinfor A _{s4} 410 410 410 410 410 410 410 410 410 410	Cement Are A _{s5} 470	A _{s7} 410 eas, mm²/m A _{s7} 410	410 A _{s8}	1050 "M," mm 1500 1200 1100 1050 1050 1050 1050 105
Span mm 2100 2100 2100 2100 2100 2100 2100 2	1500 1500 1500 1800 1800 1800 1800 1800	200 200 200 200 200 200 200 200 200 200	Bottom 200 200 200 200 200 200 200 200 200 20	200 200 200 200 200 200 200 200 200 200	200 Haunch mm 200 200 200 200 200 200 200 200 200 2	9.1 10.7 Design Earth Cove m 0-0.6 0.6-0.9 0.9-1.5 3 4.6 6.1 7.6 9.1 10.7 Design Earth Cove m 0-0.6 0.6-0.9 0.9-1.5 3 4.6 6.1 7.6 9.1 10.7 Design Earth Cove m 0-0.6 0.6-0.9 0.9-1.5 3 0.9-1.5 3 0.9-1.5 3 0.9-1.5 3 0.9-1.5 3 0.9-1.5 3 0.9-1.5 3 0.9-1.5 3 0.9-1.5 3 0.9-1.5 3 0.9-1.5 3 0.9-1.5 3 0.9-1.5 3 0.9-1.5 3 0.9-1.5 3 0.9-1.5 0.9-1	1000 100 by 1800 b 17 450 430 410 410 410 430 550 660 770 890 100 by 2100 b 17 470 470 470 470 470 470 470 510 600 700 810 400 by 1200 b 101 401 401 401 401 401 401 401 401 401	1700 by 200 mm A _{S2} 1150 830 470 600 830 1060 1300 1530 1760 by 200 mm A _{S2} 1190 870 490 620 850 1080 1320 1550 1780 by 200 mm A _{S2} 1130 830	1490 1720 Circumfer A _{s3} 550 580 470 640 850 1080 1320 1550 1800 Circumfer A _{s3} 580 620 490 660 890 1130 1360 1590 1850 Circumfer A _{s3} 490 530	### 410 rential Reinfor	cement Are A _{s5} 470 cement Are A _{s5} 470	A _{s7} 410 eas, mm²/m A _{s7} 410 eas, mm²/m A _{s7}	A _{\$8} 410	1050 1500 1200 1100 1050 1050 1050 1050
Span mm 2100 2100 2100 2100 2100 2100 2100 2	1500 1500 1500 1800 1800 1800 1800 1800	200 200 200 200 200 200 200 200 200 200	Bottom	200 200 200 200 200 200 200 200 200 200	200 Haunch mm 200 200 200 200 200 200 200 200 200	9.1 10.7 Design Earth Cove m 0-0.6 0.6-0.9 0.9-1.5 3 4.6 6.1 7.6 9.1 10.7 Design Earth Cove m 0-0.6 0.6-0.9 0.9-1.5 3 4.6 6.1 7.6 9.1 10.7 Design Earth Cove m 0-0.6 0.6-0.9 0.9-1.5 3 0.9-1.5 3 0.9-1.5	1000 100 by 1800 b 100 by 1800 b 100 by 1800 b 150 430 410 410 430 550 660 770 890 100 by 2100 b 100 470 470 470 470 470 470 470 470 600 700 810 400 by 1200 b	1700 200 mm A _{S2} 1150 830 470 600 830 1060 1300 1530 1760 200 mm A _{S2} 1190 850 1080 1320 1550 1780 200 mm A _{S2} 1130 830 470	1490 1720 Circumfel A _{s3} 550 580 470 640 850 1080 1320 1550 1800 Circumfel A _{s3} 580 620 490 660 890 1130 1360 1590 1850	410 rential Reinfor A _{s4} 410 410 410 410 410 410 410 410 410 410	cement Are A _{s5} 470 cement Are A _{s5} 470	A _{s7} 410 eas, mm²/m A _{s7} 410 eas, mm²/m A _{s7}	A _{\$8} 410	1050 1500 1200 1100 1050 1050 1050 1050
Span mm 2100 2100 2100 2100 2100 2100 2100 2	1500 1500 1500 1800 1800 1800 1800 1800	200 200 200 200 200 200 200 200 200 200	Bottom mm 200 200 200 200 200 200 200 200 200	200 200 200 200 200 200 200 200 200 200	200 Haunch mm 200 200 200 200 200 200 200 200 200	9.1 10.7 Design Earth Cove m 0-0.6 0.6-0.9 0.9-1.5 3 4.6 6.1 7.6 9.1 10.7 Design Earth Cove m 0-0.6 0.6-0.9 0.9-1.5 3 4.6 6.1 7.6 9.1 10.7 Design Earth Cove m 0-0.6 0.6-0.9 0.9-1.5 3 4.6 6.1 7.6 9.1 10.7	1000 100 by 1800 b 100 by 1800 b 100 by 1800 b 150 430 410 410 430 550 660 770 890 100 by 2100 b 100 470 470 470 470 470 470 470 470 600 700 810 400 by 1200 b	1700 by 200 mm A _{s2} 1150 830 470 600 830 1060 1300 1530 1760 by 200 mm A _{s2} 1190 870 490 620 850 1080 1320 1550 1780 by 200 mm A _{s2} 1190 870 490 660	1490 1720 Circumfel A _{s3} 550 580 470 640 850 1080 1320 1550 1800 Circumfel A _{s3} 580 620 490 660 890 1130 1360 1590 1850 Circumfel A _{s3} 470 680	410 rential Reinfor A _{s4} 410 410 410 410 410 410 410 410 410 410	cement Are A _{s5} 470 cement Are A _{s5} 470	A _{s7} 410 eas, mm²/m A _{s7} 410 eas, mm²/m A _{s7}	A _{\$8} 410	1050 1500 1200 1100 1050 1050 1050 1050
Span mm 2100 2100 2100 2100 2100 2100 2100 2	1500 1500 1500 1800 1800 1800 1800 1800	200 200 200 200 200 200 200 200 200 200	Bottom	200 200 200 200 200 200 200 200 200 200	200 Haunch mm 200 200 200 200 200 200 200 200 200	9.1 10.7 Design Earth Cove m 0-0.6 0.6-0.9 0.9-1.5 3 4.6 6.1 7.6 9.1 10.7 Design Earth Cove m 0-0.6 0.6-0.9 0.9-1.5 3 4.6 6.1 7.6 9.1 10.7 Design Earth Cove m 0-0.6 0.6-0.9 0.9-1.5 3 0.9-1.5 3 0.9-1.5	1000 100 by 1800 b 100 by 1800 b 100 by 1800 b 150 430 410 410 430 550 660 770 890 100 by 2100 b 100 470 470 470 470 470 470 470 470 600 700 810 400 by 1200 b	1700 200 mm A _{S2} 1150 830 470 600 830 1060 1300 1530 1760 200 mm A _{S2} 1190 850 1080 1320 1550 1780 200 mm A _{S2} 1130 830 470	1490 1720 Circumfel A _{s3} 550 580 470 640 850 1080 1320 1550 1800 Circumfel A _{s3} 580 620 490 660 890 1130 1360 1590 1850	410 rential Reinfor A _{s4} 410 410 410 410 410 410 410 410 410 410	cement Are A _{s5} 470 cement Are A _{s5} 470	A _{s7} 410 eas, mm²/m A _{s7} 410 eas, mm²/m A _{s7}	A _{\$8} 410	1050 1500 1200 1100 1050 1050 1050 1050



2400														
	1200	200	200	200	200	7.6	1230	1440	1460	410				1050
						24	00 by 1500 l	y 200 mm						
Span	Rise	Top	Bottom	Side	Haunch	Design Earth Cover			Circumfere	ntial Reinfo		as, mm²/m		
mm	mm	mm	mm	mm	mm	m	A _{s1}	A_{s2}	A _{s3}	A _{s4}	A _{s5}	A _{s7}	A _{s8}	"M," mm
2400	1500	200	200	200	200	0-0.6	600	1210	530	410	450	410	410	
2400	1500	200	200	200	200	0.6-0.9	580	890	600	410				1270
2400	1500	200	200	200	200	0.9-1.5	410	510	510	410				1270
2400	1500	200	200	200	200	3	510	700	740	410				1150
2400	1500	200	200	200	200	4.6	700	980	1020	410				1050
2400	1500	200	200	200	200	6.1	890	1270	1300	410				1050
2400	1500	200	200	200	200	7.6	1080	1550	1590	410				1050
						24	00 by 1900 I	300 mm						
Cnon	Rise	Ton	Bottom	Cido	Houneh	Design Earth Cover	00 by 1800 l	y 200 mm		ntial Reinfo	roomont Aro	00 mm²/m		
Span		Top		Side	Haunch	-		٨				-	۸	"M," mm
2400	mm 1800	200	200	200	200	0-0.6	A _{s1} 550	A _{s2} 1250	A _{s3}	A _{s4} 410	A _{s5} 470	A _{s7} 410	A _{s8} 410	IVI, IIIIII
2400	1800	200	200	200	200	0.6-0.9	530	960	640	410	470	410	410	1400
2400	1800	200	200	200	200	0.9-1.5	410	550	550	410				1270
2400	1800	200	200	200	200	3	470	740	790	410				1150
2400	1800	200	200	200	200	4.6		1040	1080	410				1050
2400	1800	200	200	200	200	6.1	640 810	1340	1380	410				1050
2400	1800	200	200	200	200	7.6	980	1630	1680	410				1050
2400	1000	200	200	200	200		00 by 2100 I			410				1030
Span	Rise	Тор	Bottom	Side	Haunch	Design Earth Cover		Jy 200 IIIIII		ntial Reinfo	rcement Are	as mm²/m		
mm	mm	mm	mm	mm	mm	m	A _{s1}	A _{s2}		A _{s4}		A _{s7}	A _{s8}	"M," mm
2400	2100	200	200	200	200	0-0.6	510	1320	A _{s3} 640	410	A _{s5} 490	410	410	171, 111111
2400	2100	200	200	200	200	0.6-0.9	490	1000	700	410	+30	710	+10	1660
2400		200	200	200	200	0.6-0.9	490	580	600	410				1400
	2100													
2400	2100	200	200	200	200	3	430	790 1080	830	410				1150
2400	2100	200	200	200	200	4.6	600	1080	1130	410				1050
2400	2100	200	200	200	200	6.1	740	1380	1440	410				1050
2400	2100	200	200	200	200	7.6	890	1700	1740	410				1050
0	D:	т	D-#	0:-1-	Harmala		00 by 2400 l	oy 200 mm		-ti-l Deinfe		2/		
Span	Rise	Top	Bottom	Side	Haunch	Design Earth Cover		CICCII		ntial Reinfo				48 A 11
mm	mm	mm	mm	mm	mm	m	A _{s1}	A _{s2}	A _{s3}	A _{s4}	A _{s5}	A _{s7}	A _{s8}	"M," mm
2400	2400	200	200	200	200	0-0.6	470	1360	680	410	510	410	410	
2400	2400	200	200	200	200	0.6-0.9	470	1040	740	410				1660
2400	2400	200	200	200	200	0.9-1.5	410	620	640	410				1660
2400	2400	200	200	200	200	3	410	810	870	410				1270
2400	2400	200	200	200	200	4.6	550	1100	1170	410				1150
2400	2400	200	200	200	200	6.1	700	1400	1490	410				1150
2400	2400	200	200	200	200	7.6	850	1720	1780	410				1050
	·			0:1			00 by 1500 l	oy 225 mm				2,		
Span	Rise	Top	Bottom	Side	Haunch	Design Earth Cover		M-16b		ntial Reinfo		<u> </u>		
mm	mm	mm	mm	mm	mm	m		A _{s2}		A_{s4}	Δ_	Δ_		"M," mm
2700	1500	225		005	005		A _{s1}		A _{s3}		A _{s5}	A _{s7}	A _{s8}	
2700			225	225	225	dards/0-0.6/ce2a	620	2-1130	530 –	da 470 6	470 /a	511470 43	A _{s8} 470	6b
	1500	225	225	225	225	0.6-0.9	620 620	2-1130 9 870	530 – 580	470 470				1380
2700	1500	225	225 225	225 225	225 225	0-0.6 ce 2a 0.6-0.9 0.9-1.5	620 620 470	2-1130 9 870 530	530 – 580 550	470 470 470				1250
2700 2700	1500 1500	225 225	225 225 225	225 225 225	225 225 225	0-0.6/ce2a 0.6-0.9 0.9-1.5 3	620 620 470 620	2 -1130 9 870 530 770	530 – 580 580 550 810	470 470 470 470				1250 1250
2700 2700 2700	1500 1500 1500	225 225 225	225 225 225 225	225 225 225 225	225 225 225 225 225	0-0.6 ce28 0.6-0.9 0.9-1.5 3 4.6	620 620 470 620 850	2-1130)9 870 530 770 1080	530 - 1 580 550 810 1100	470 470 470 470 470				1250 1250 1120
2700 2700 2700 2700	1500 1500 1500 1500	225 225 225 225	225 225 225 225 225 225	225 225 225 225 225 225	225 225 225 225 225 225	0-0.6 ce 2 a 0.6-0.9 0.9-1.5 3 4.6 6.1	620 620 470 620 850 1080	2 1130 9 870 530 770 1080 1380	530 - 580 550 810 1100 1420	470 470 470 470 470 470				1250 1250 1120 1120
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