

TERRA COTTA

· STANDARD ·
CONSTRUCTION

REVISED EDITION

COMPLIMENTS OF



GLADDING, McBEAN

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LINCOLN, CALIFORNIA

NATIONAL
TERRA COTTA SOCIETY

19 WEST 44th STREET U · S · A NEW YORK, N. Y.

1927

Introduction

The present volume is a revision of Architectural Terra Cotta—Standard Construction, originally published in 1914.

Like the previous issue, this edition does not presume to suggest architectural design. It shows illustrative architectural forms of assumed proportions, and their proper constructional features. It shows the correct use of Terra Cotta. For a number of examples several good solutions of the structural problems are possible. Variations in size of similar sections sometimes necessitate radical changes in both jointing and construction.

The changes made in this revision are the result of a more extended experience in manufacturing and in modern building methods, and are based on a careful study of the behavior and weathering properties of exterior building materials.

The following are the most important of the structural principles upon which this revision has been developed:

- Shelf Supports* In concrete or steel frame buildings, the veneer or facing material should be fully and continuously supported, at each floor level on shelf supports, of adequate strength and stiffness, rigidly connected to the structural frame. Steel shelf angles or supports, in all cases, should be located in mortar joints. The strength of the Terra Cotta should not be unnecessarily reduced by cutting the webs to receive the steel.
- Expansion Joints* Proper provision should be made for expansion joints, at shelf supports, over column caps, etc., to prevent the development of disruptive stresses caused by deflection, wind pressure, temperature changes, settlement and like forces.
- Terra Cotta on Concrete Frames* The volume changes incident to the setting and hardening of concrete, and the variations in volume of concrete due to humidity and temperature conditions, require provisions to allow free movement of the supporting frame and make it undesirable to completely fill a facing applied to a concrete structure.
- Protection against Corrosion* Proper care should be exercised to prevent the corrosion of all steel supports, ties, etc. Where such protection cannot be permanently secured through encasement with mortar or concrete, or through the use of corrosion resistant metallic coatings, non-corrosive metals should be employed.
- Free-standing Construction* Exposed free-standing construction, subject to the absorption of water through mortar joints and liable to injury from subsequent freezing, or the expansion of improper filling material, should generally be left unfilled and should be ventilated by means of small, inconspicuously placed weep-holes (indicated by W. H. on the plates).
- Flashing and Drips* Properly constructed flashing should be provided to cover the top of large projecting horizontal courses, the backs and tops of parapet walls, wide-exposed sill courses, etc., and all projecting features should have drips.

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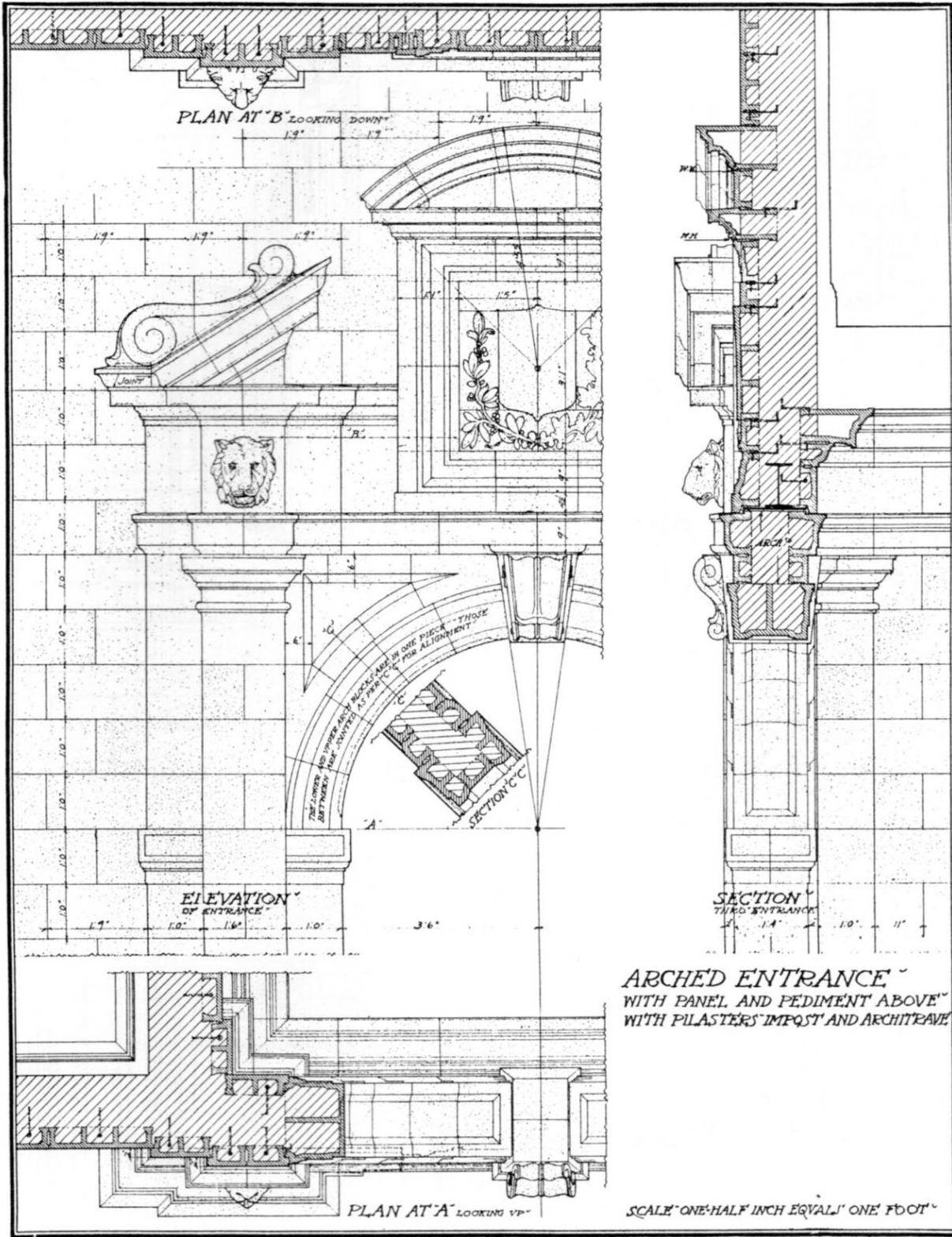
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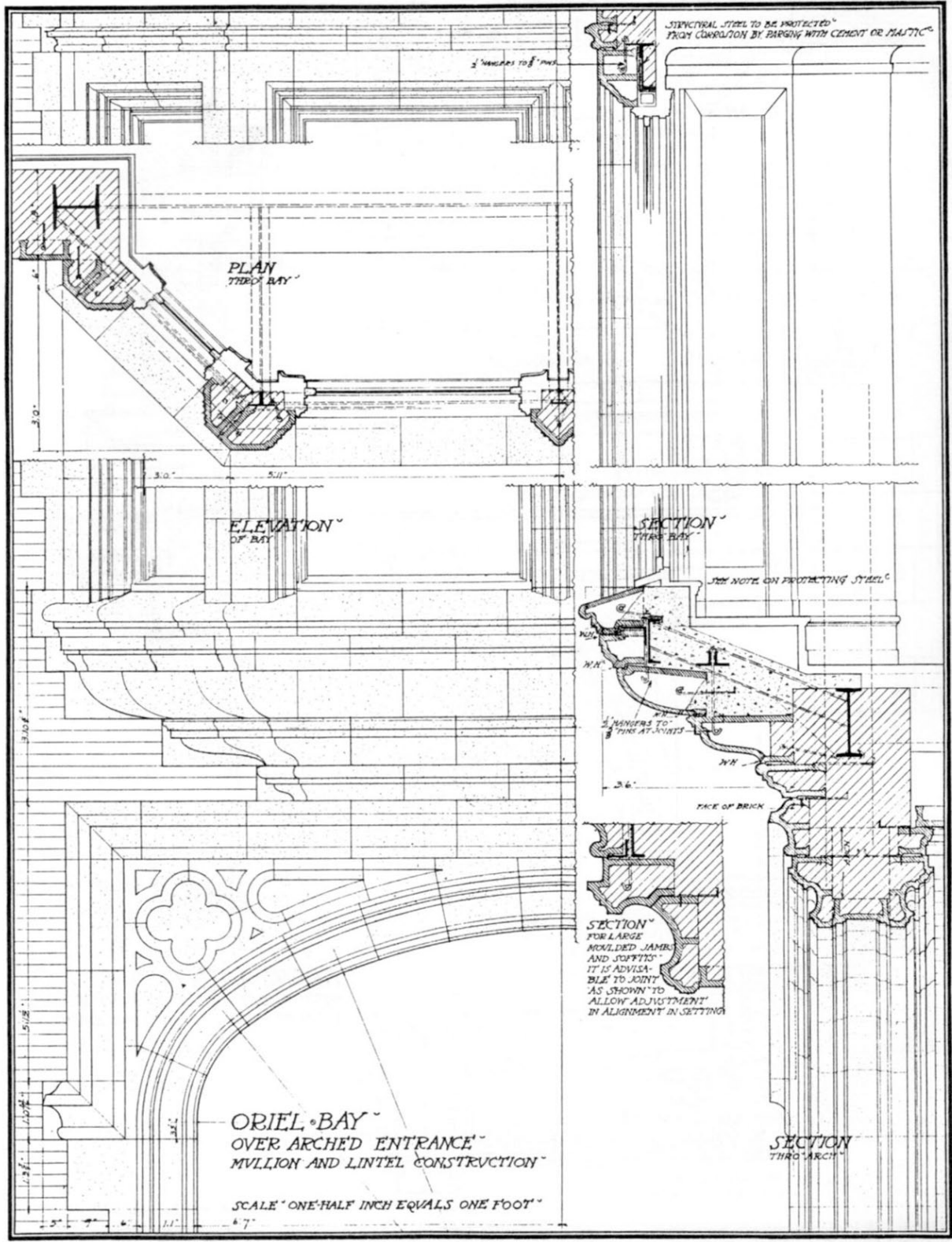
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ARCHED ENTRANCE
WITH PANEL AND PEDIMENT ABOVE
WITH PILASTERS IMPOST AND ARCHITRAVE

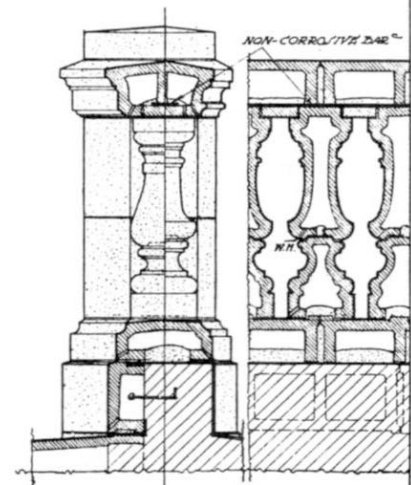
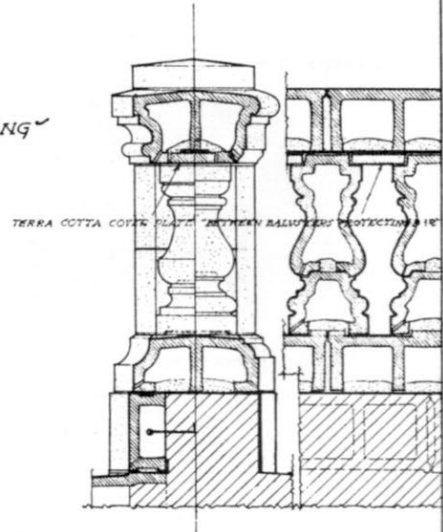
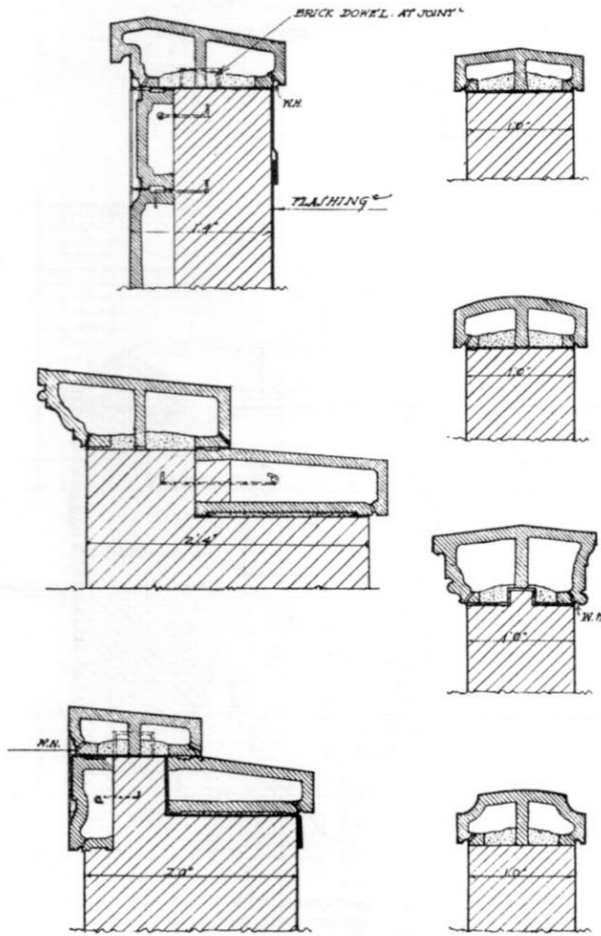
SCALE ONE-HALF INCH EQUALS ONE FOOT

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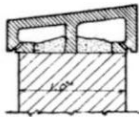
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WALL COPINGS AND BALUSTRADES
SHOWING VARIOUS METHODS OF JOINTING AND ANCHORING

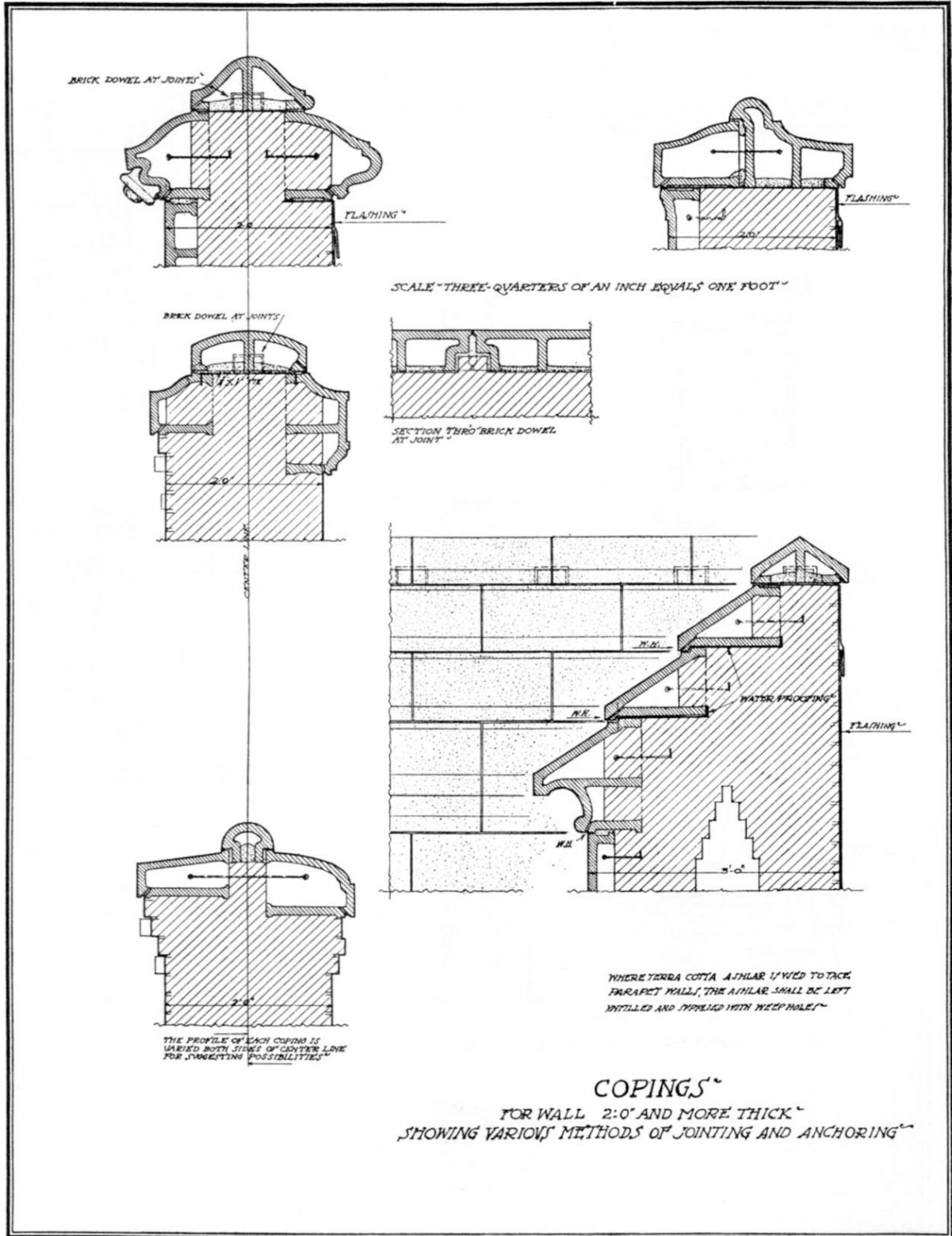


WHERE TERRA COTTA ALTHOUGH USED TO FACE PARAPET WALLS, THE ASPHALT SHALL BE LEFT UNFILLED AND SUPPLIED WITH WEEP HOLES

SCALE "THREE-QUARTERS OF AN INCH EQUALS ONE FOOT"



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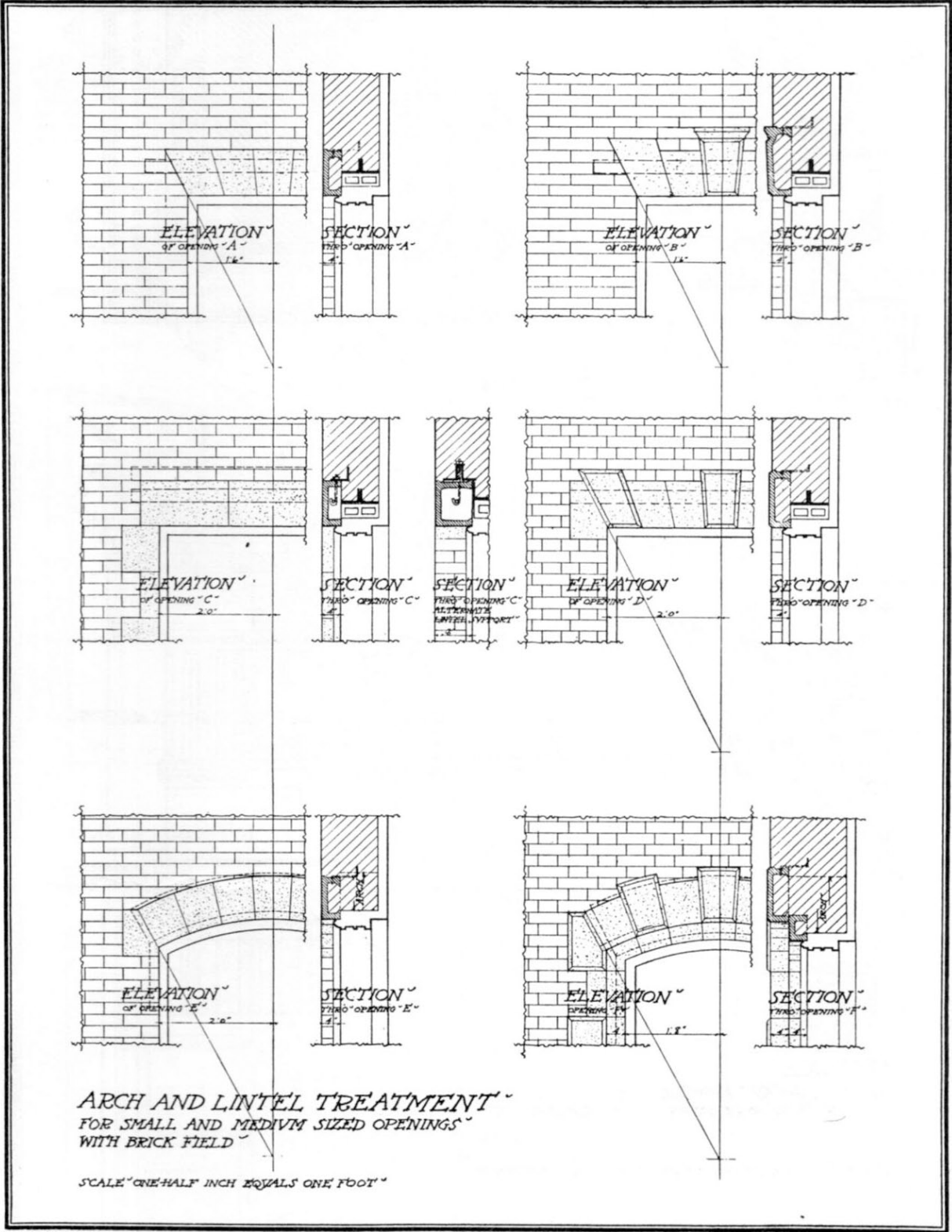
SCALE "THREE-QUARTERS OF AN INCH EQUALS ONE FOOT"

THE PROFILE OF EACH COPING IS VARIED BOTH SIDES OF CENTER LINE FOR SUGGESTING POSSIBILITIES"

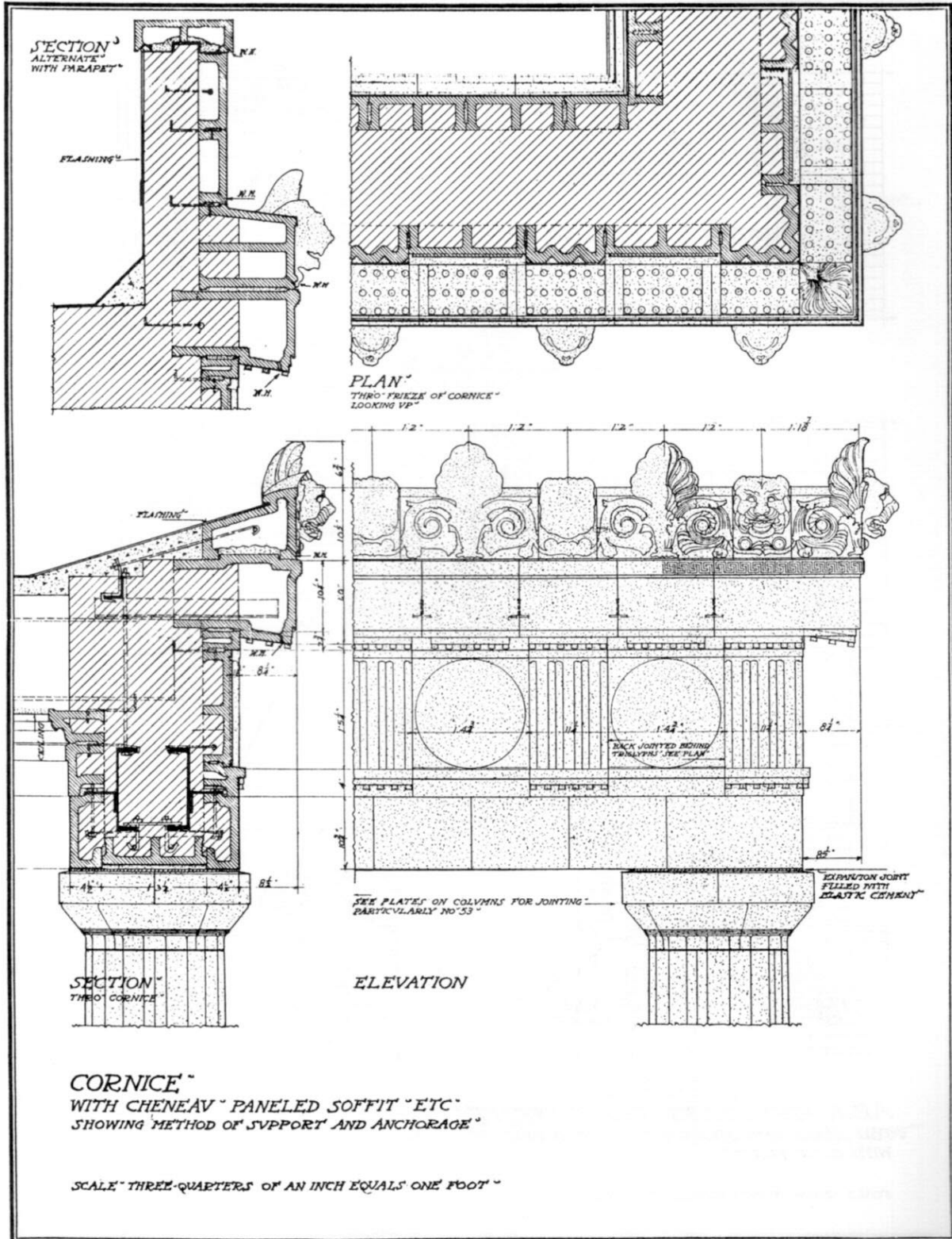
WHERE TERRA COTTA ANCHOR IS VIED TO TAKE PARAPET WALL, THE ANCHOR SHALL BE LEFT UNTILLED AND SUPPLIED WITH WEEP HOLES"

COPINGS
FOR WALL 2:0' AND MORE THICK
SHOWING VARIOUS METHODS OF JOINTING AND ANCHORING"

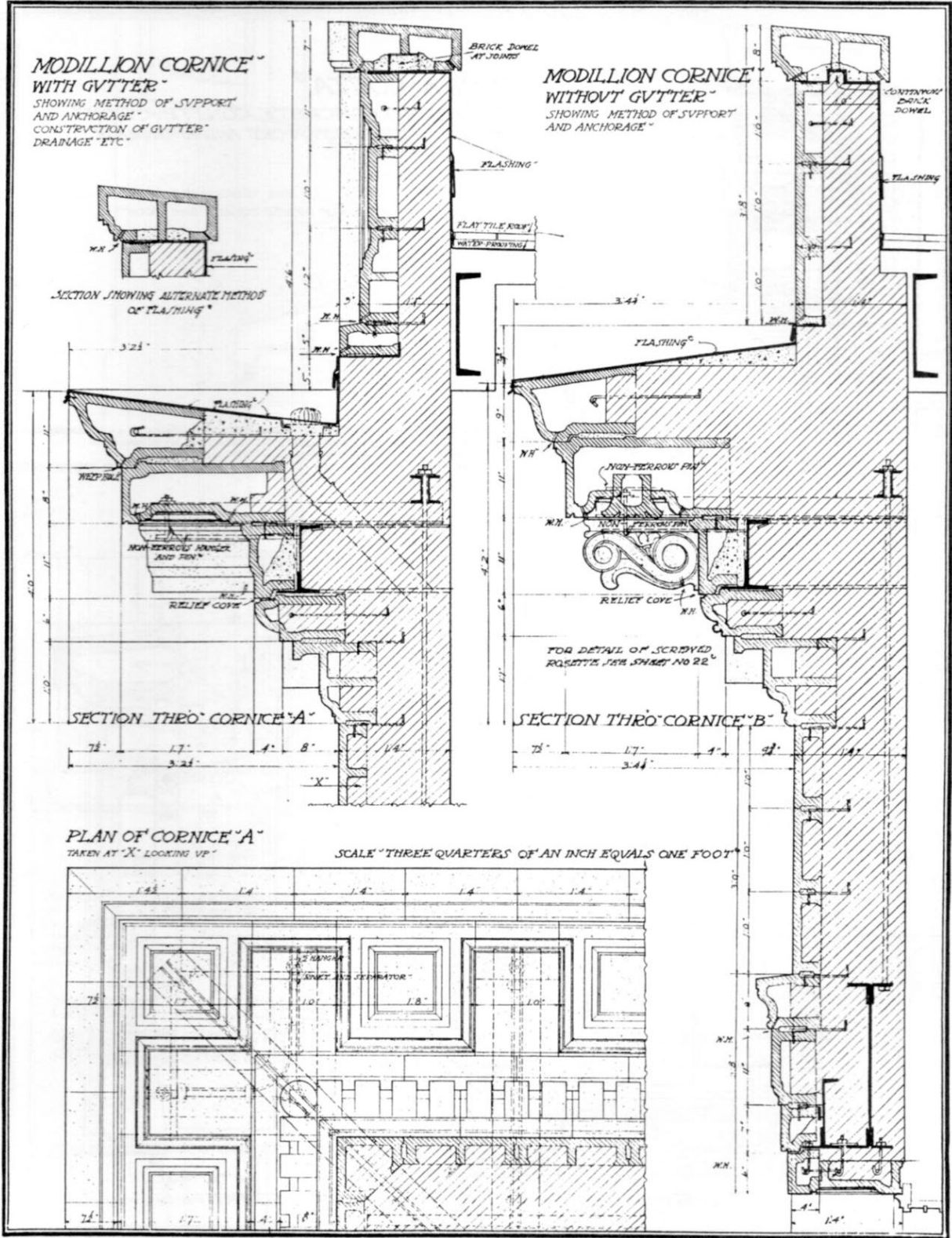
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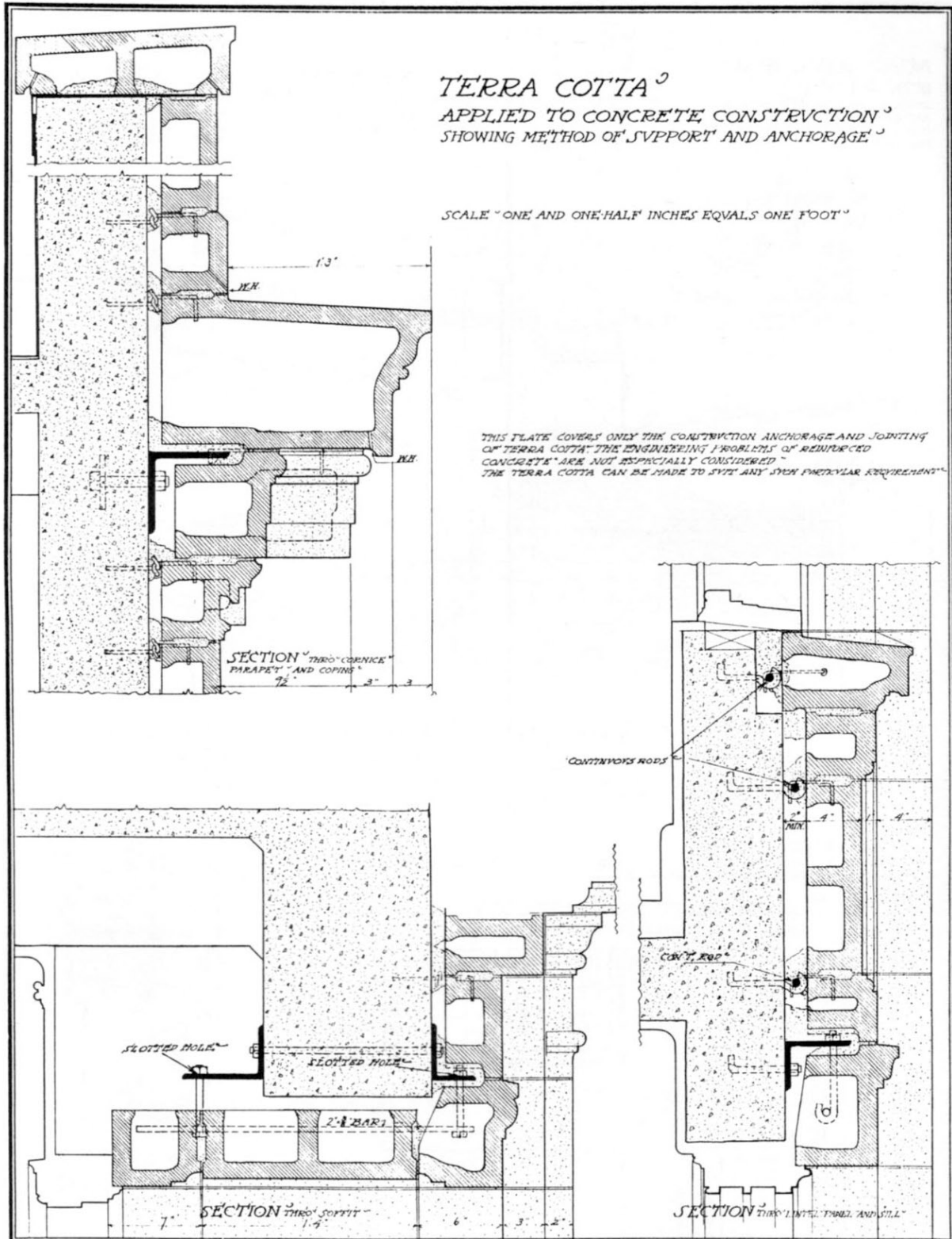
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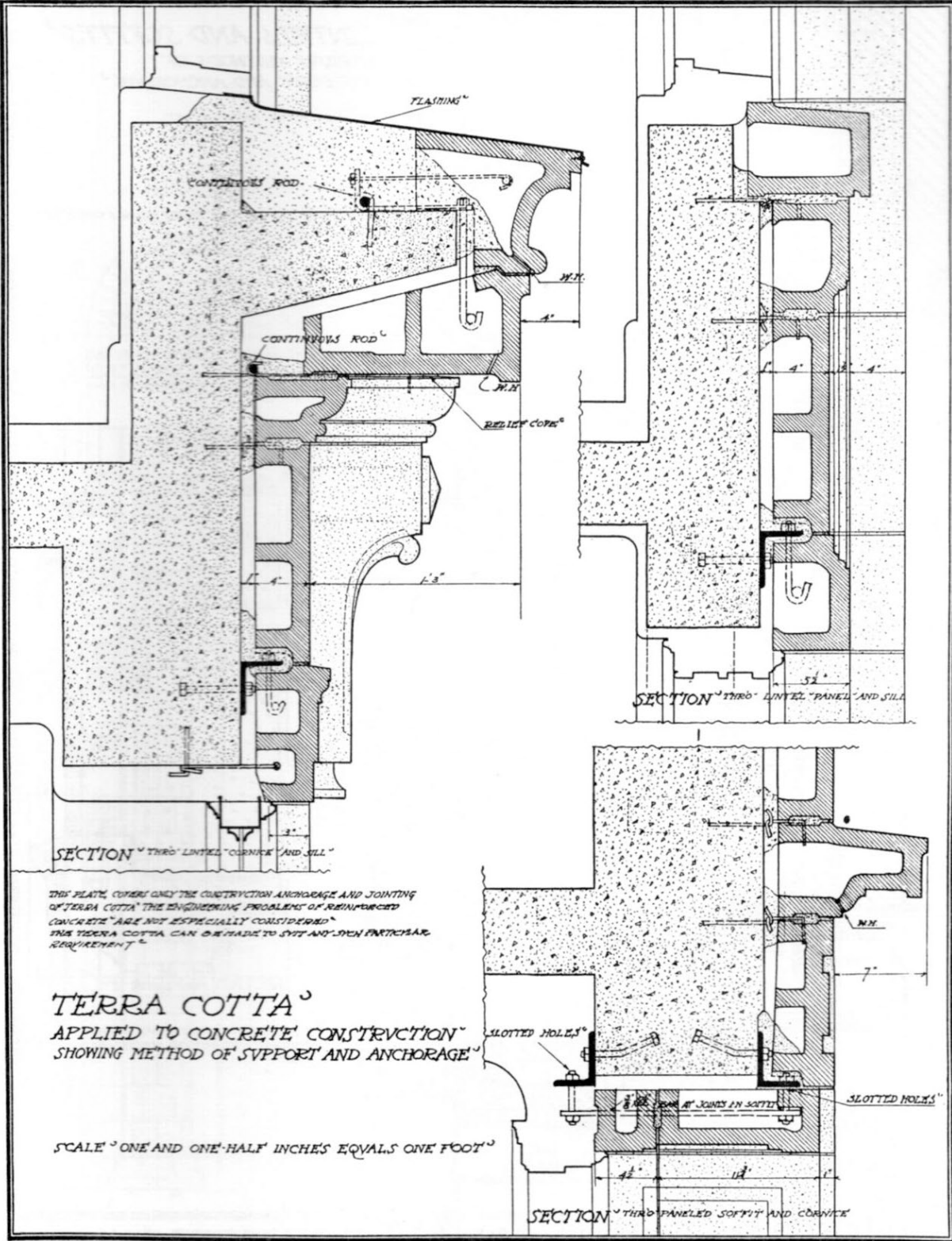
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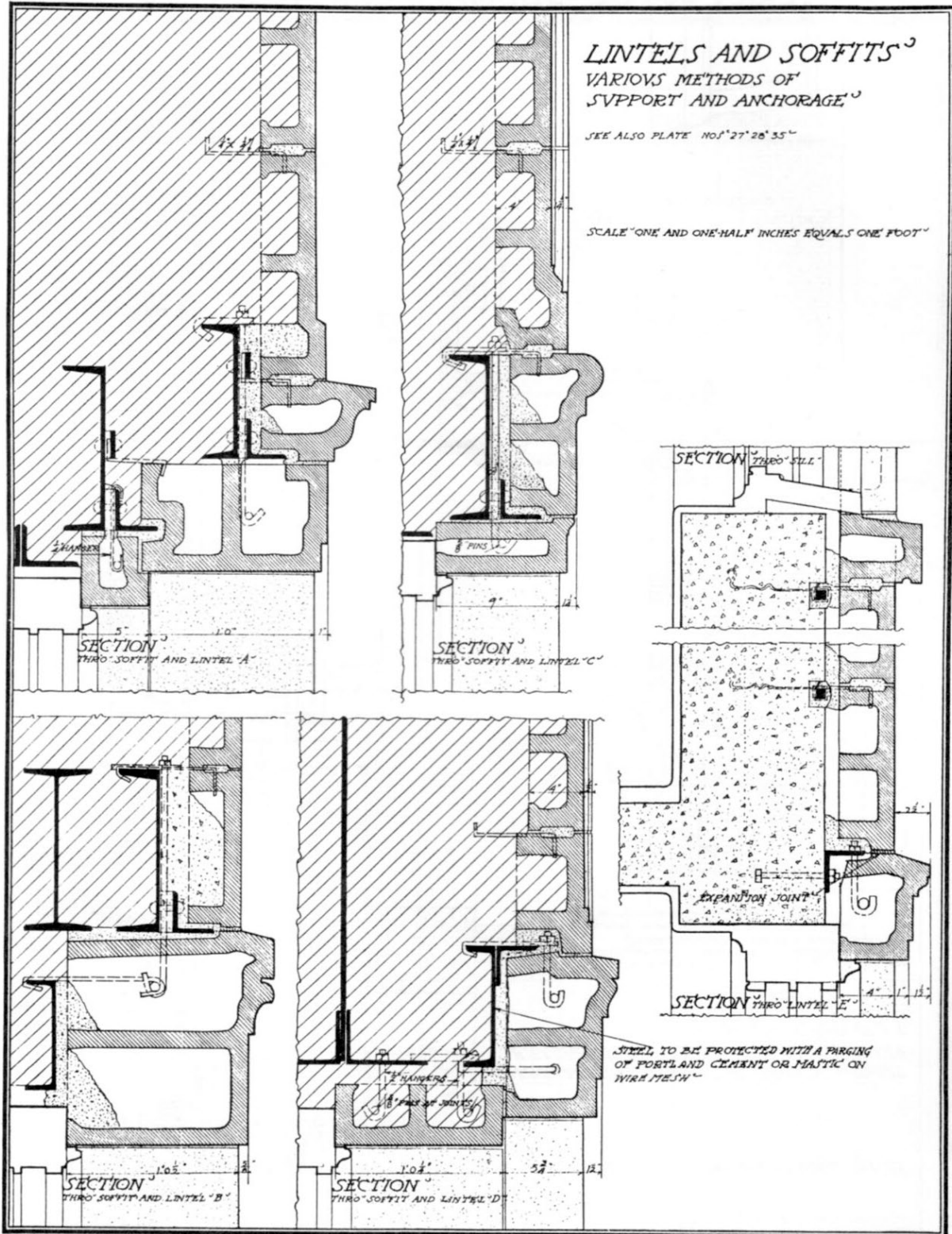


THIS PLATE COVERS ONLY THE CONSTRUCTION, ANCHORAGE AND JOINTING OF TERRA COTTA. THE ENGINEERING PROBLEMS OF REINFORCED CONCRETE ARE NOT ESPECIALLY CONSIDERED. THE TERRA COTTA CAN BE MADE TO SUIT ANY SPECIFIC REQUIREMENT.

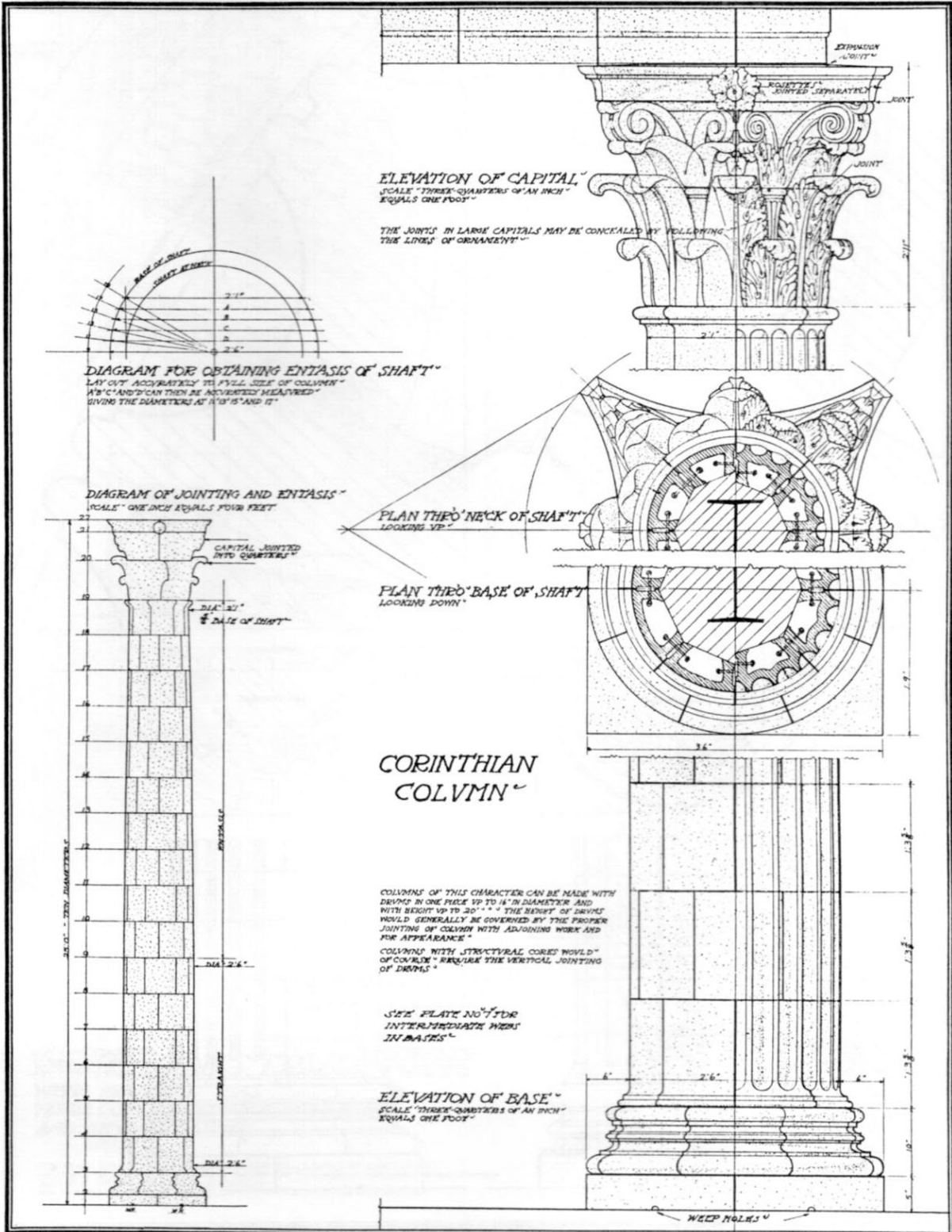
TERRA COTTA
 APPLIED TO CONCRETE CONSTRUCTION
 SHOWING METHOD OF SUPPORT AND ANCHORAGE

SCALE ONE AND ONE-HALF INCHES EQUALS ONE FOOT

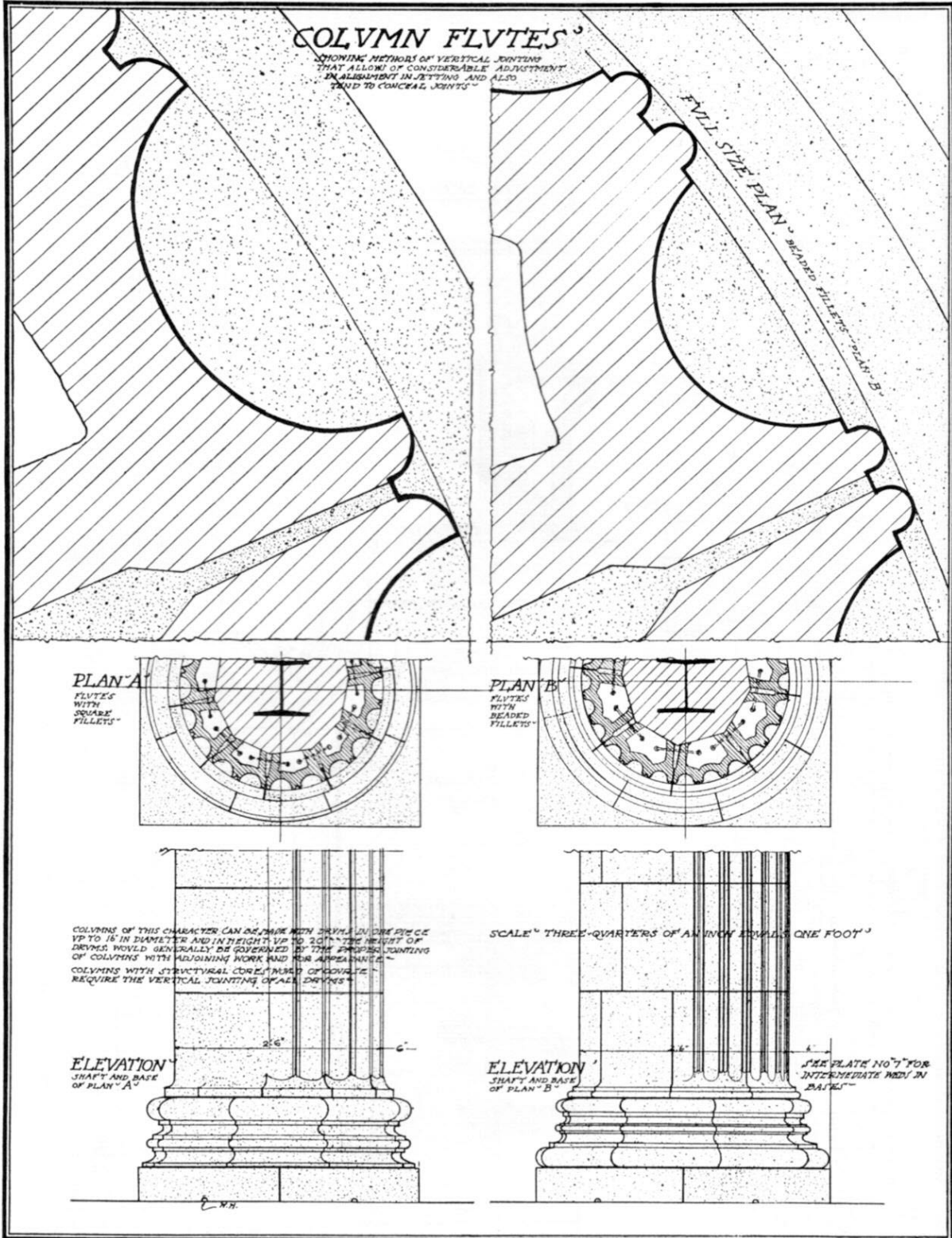
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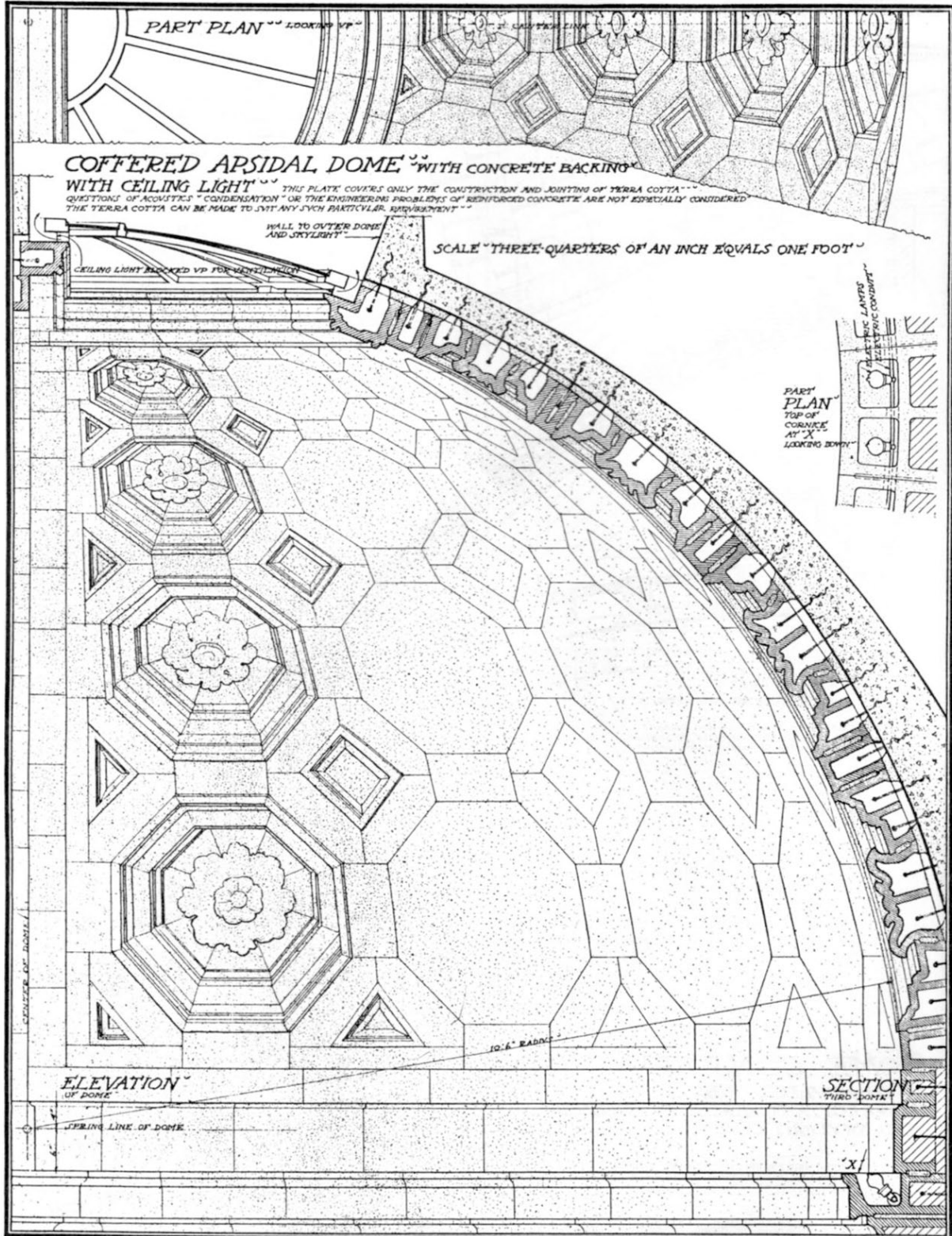
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DETAILS OF ANCHORS HANGERS STRAPS CLAMPS ETC USED IN SETTING TERRA COTTA

STRUCTURAL STEEL WHEN ERECTED FREQUENTLY VARIES FROM EXACT FIGURED DIMENSIONS FOR THIS REASON ALL SUPPORTS FOR TERRA COTTA INCLUDING ANGLES RODS ANCHORS ETC SHOULD BE DESIGNED SO AS TO PERMIT OF EASY ADJUSTMENT TO THE REASONABLE REQUIREMENTS OF CONSTRUCTION WHEN THE MATERIAL IS BEING SET

