

APPENDIX "A" to ENGINEERING GUIDE



CINTEC
REINFORCEMENT SYSTEMS

TECHNICAL DRAWINGS
For Engineers and Architects Information

All CINTEC anchors are comprised of a structural member surrounded by a fabric sleeve into which Presstec grout is injected. Stainless steel sizes/sections & lengths, sleeve sizes & end conditions vary in accordance with specific design.

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Patents

Since 1965 Cintec has strived to become the world leader in the design and manufacturing of project specific designed cementitious anchoring and reinforcement systems. **Patents** have been obtained worldwide and additional patents have been applied for and are pending. A partial list of Patents / Patents pending includes, but is not limited to: 2245121, 2764006, 0090895, 5216857, 116188, 1210196, DE19609514, 3608775, DE2315859



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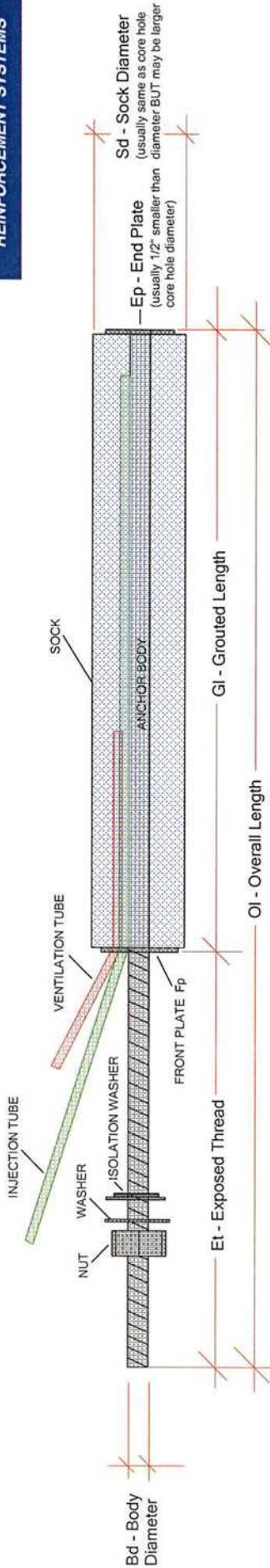
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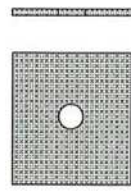
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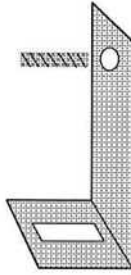
TYPICAL ANCHOR DESIGN & TERMINOLOGY



ACCESSORIES



Plate



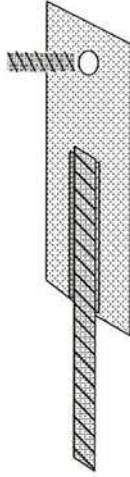
Adjustable Angled Plate w/ Drop Pin



Brick Tie



Coupling Nut



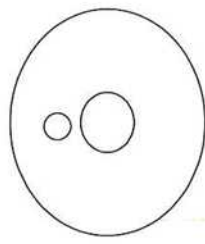
Drop Pin Plate - adjustable when used with coupling nut.

CINTEC TERMINOLOGY

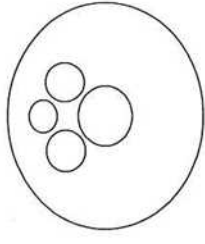
- Accessory** - end treatment that can be attached to an anchor
- Anchor Body** - the steel part of the anchor. Usually stainless steel and may be hollow, solid round, square, or other configuration.
- Nut** - hexagonal with same ID as body and usually of same material.
- Plate (End)** - on most anchors. Usually 1/2" smaller diameter than the core/ sock diameter. Has hole in centre the size of body so it can be welded / threaded in place.
- Plate (Front)** - on some anchors. Usually 1/2" smaller diameter than the core/ sock diameter. Has hole in centre the size of body so it can be welded / threaded in place. May also have "port (s)" to accommodate injection / ventilation / other tubes.

- Sock** - polyester, woven tube usually size matched to the core hole diameter... but NOT always
- Tube (Injection)** - tube that is glued in place and used to INJECT the anchor sock. It is the longest tube if two or more tubes are present and identified with a sticker with green writing.
- Tube (ventilation)** - also called "emergency" allows air in system to escape and can also be used if absolutely necessary to inflate anchor. It is glued in place and is the shortest tube if two or more tubes are present and identified with a sticker with red writing.
- Washer** - also called flat or fender washer.
- Washer (Isolation)** - also called bonded washer, used to prevent galvanic action between dissimilar materials

FRONT PLATES (Various)



Standard with single port

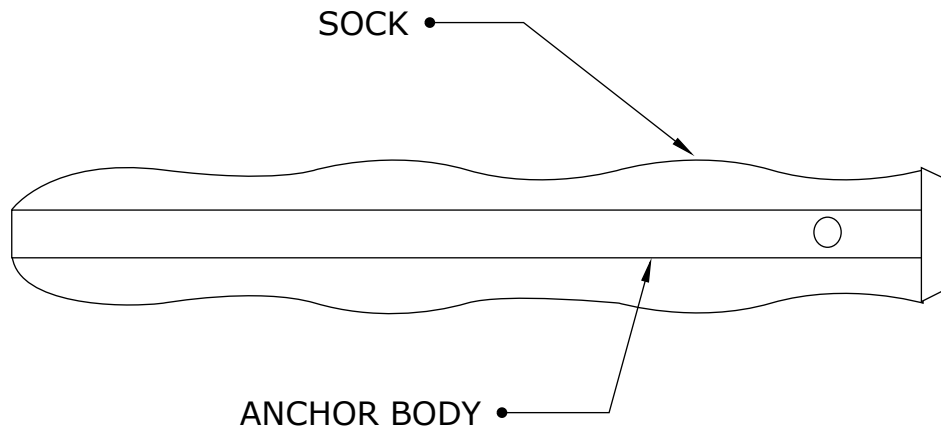


Custom with several ports.



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CINTEC ANCHOR TYPE RAC STAINLESS STEEL



ANCHOR BODY	SOCK	END CONDITION
SS TYPE 304 3/8" (10mm) DIA. CHS HOLLOW ROUND	FULL LENGTH OF ANCHOR BODY 3/4" (20mm) DIAMETER SOCK	PLAIN ENDS

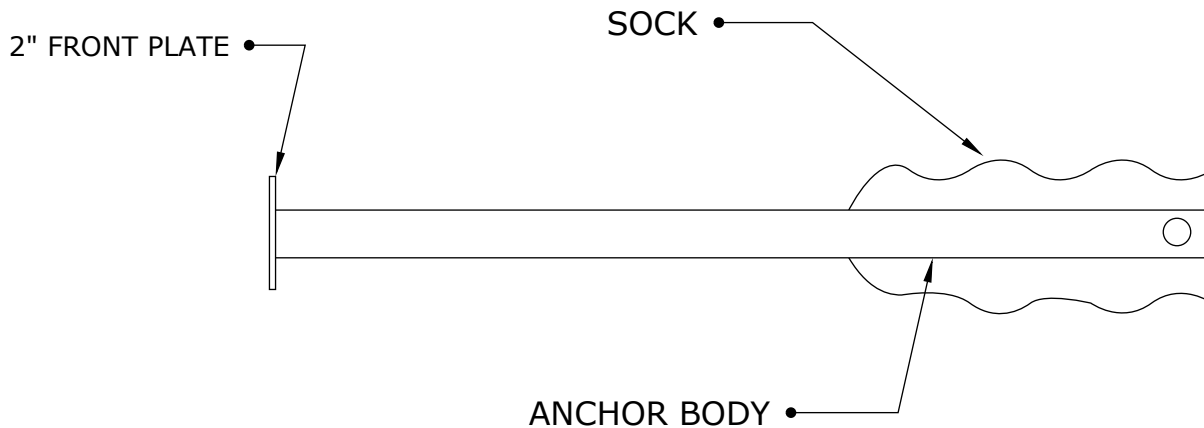
ANCHOR LENGTH TO SUIT SITE CONDITIONS
Client to confirm ALL lengths before ordering.

	<p>Engineered Grout Injection Anchors by: Cintec Reinforcement Systems Tel: 1-410-761-0765 1-613-225-3381 Fax: 1-613-224-9042 E-mail: solutions@cintec.com</p>	<p>Drawing Title: CINTEC ANCHOR TYPE RAC, STITCHING ANCHOR</p>
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CINTEC ANCHOR TYPE RAC STAINLESS STEEL



ANCHOR BODY	SOCK	END CONDITION
SS TYPE 304 3/8" (10mm) DIA. CHS HOLLOW ROUND	Sock length to suit site conditions 3/4" (20mm) DIAMETER SOCK	2" (50mm) Front Plate

ANCHOR LENGTH TO SUIT SITE CONDITIONS
Client to confirm ALL lengths before ordering.



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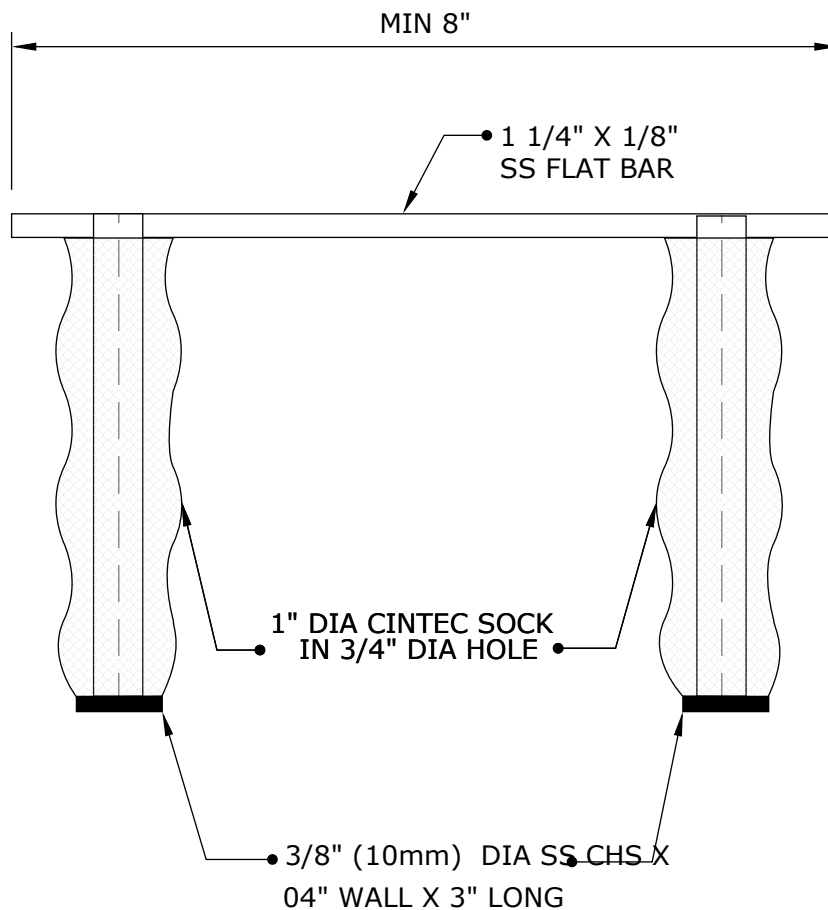
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**CINTEC ANCHOR TYPE
RAC**



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CINTEC TERRA-COTTA CRACK STAPLING ANCHOR 3/8" 10mm Anchor Body



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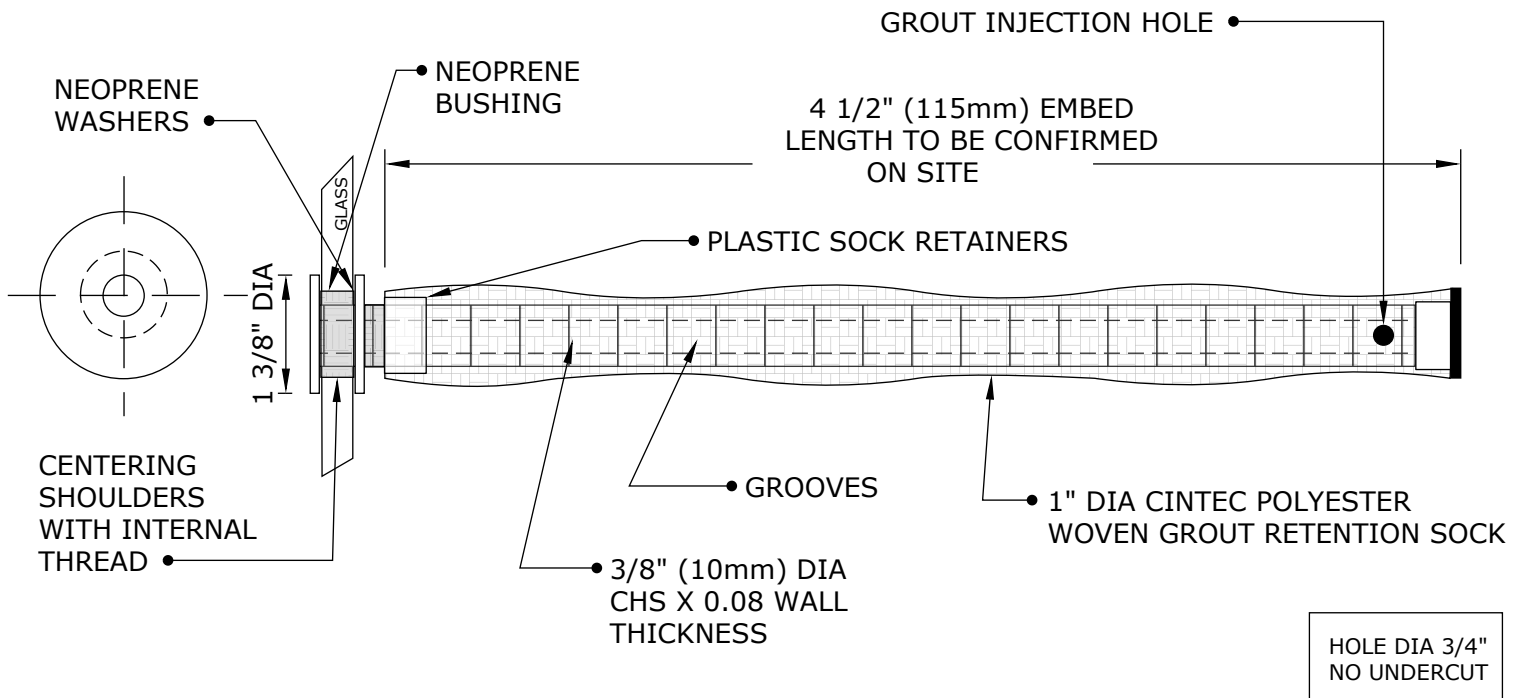
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**CINTEC TERRA-COTTA
CRACK STAPLING
ANCHOR**



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CINTEC ANCHOR FOR ATTACHING THIN VENEER/MARBLE PANNELS TO MASONRY/STEEL FRAME BACK UP



PROJECT NAME: MOSAIC ANCHORS
CLIENT: NEW YORK CITY SUBWAY
LOCATION: NEW YORK CITY - VARIOUS SUBWAY STATIONS

TYPE: MOSAIC ANCHORS
NYC SUBWAY



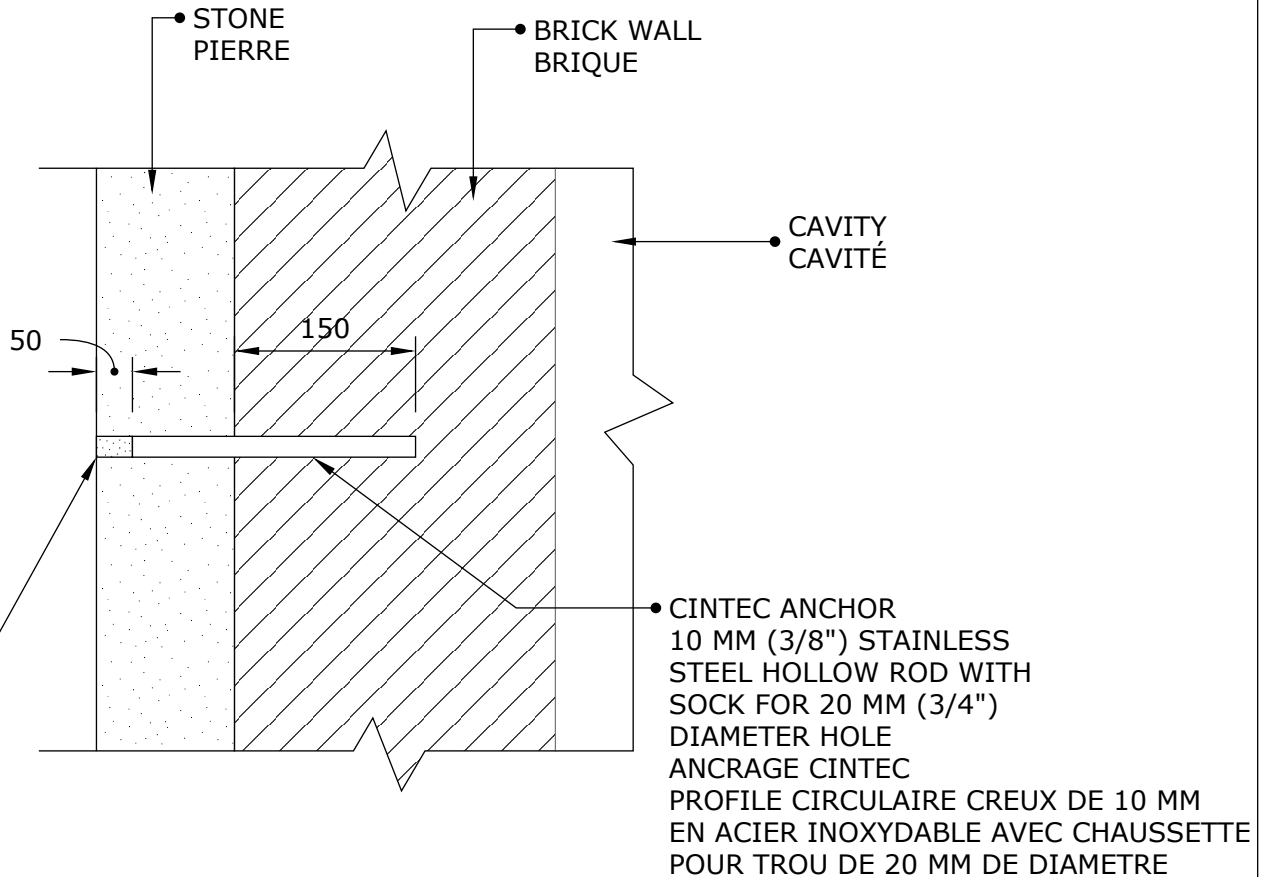
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CINTEC ANCHOR FOR ATTACHING THIN VENEER/MARBLE PANNELS TO MASONRY/STEEL FRAME BACK-UP



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• RETAIN AND REINSTALL STONE PLUG USING EPOXY. KEEP EPOXY 1/2" BACK FROM FACE OF STONE AND POINT ONCE EPOXY IS SET AND CURED.

CONSERVER ET REMPLACER LE BOUCHON DE PIERRE EN UTILISANT DE L'EPOXY. GARDER L'EPOXY 1/2" DE LA SURFACE EXTERIOR DE LA PIERRE ET REJOINTER UNE FOIS QUE L'EPOXY EST COMPLETEMENT CURÉ



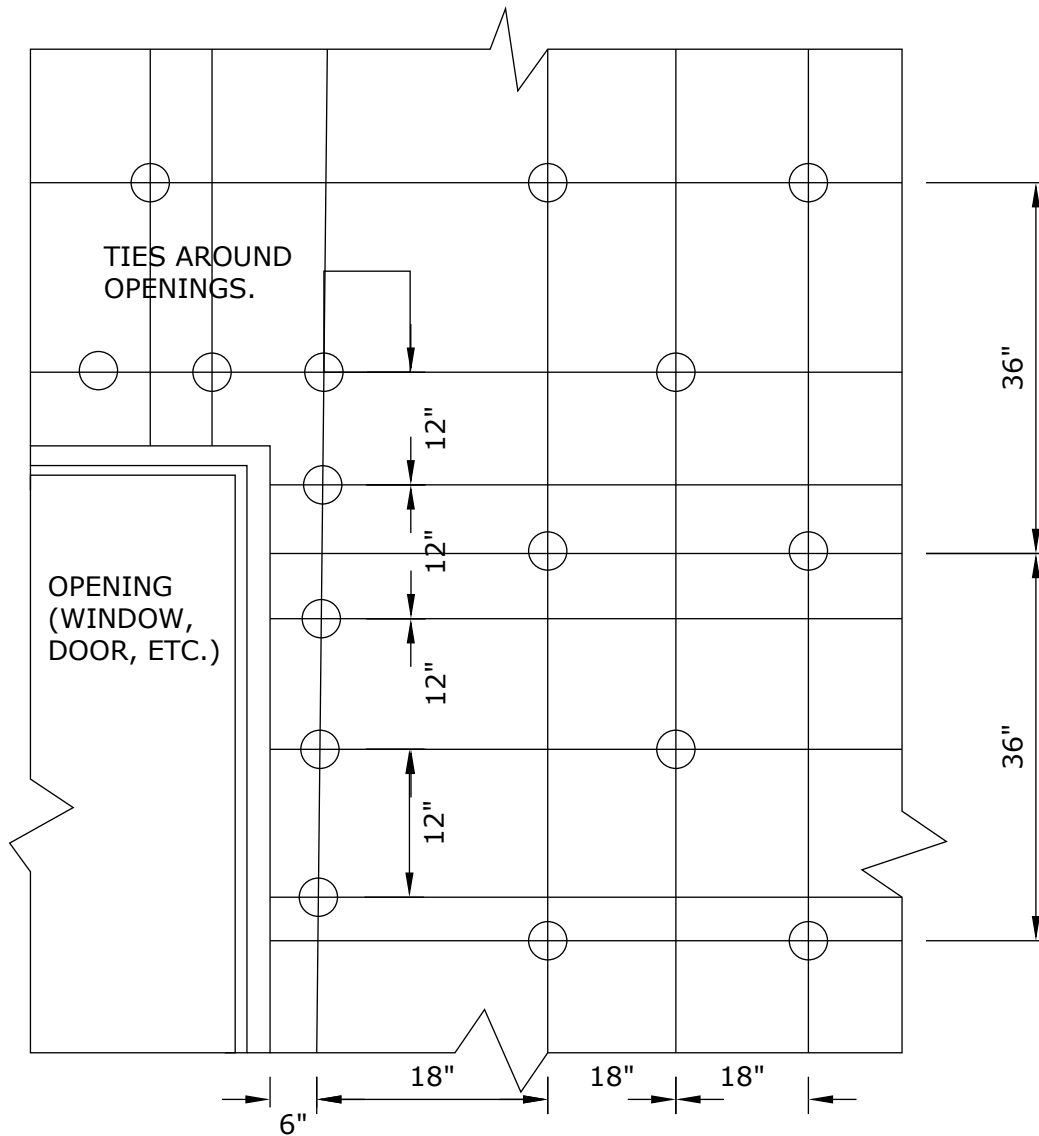
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Drawing Title:

**TYPICAL ANCHOR WALL
DETAIL**



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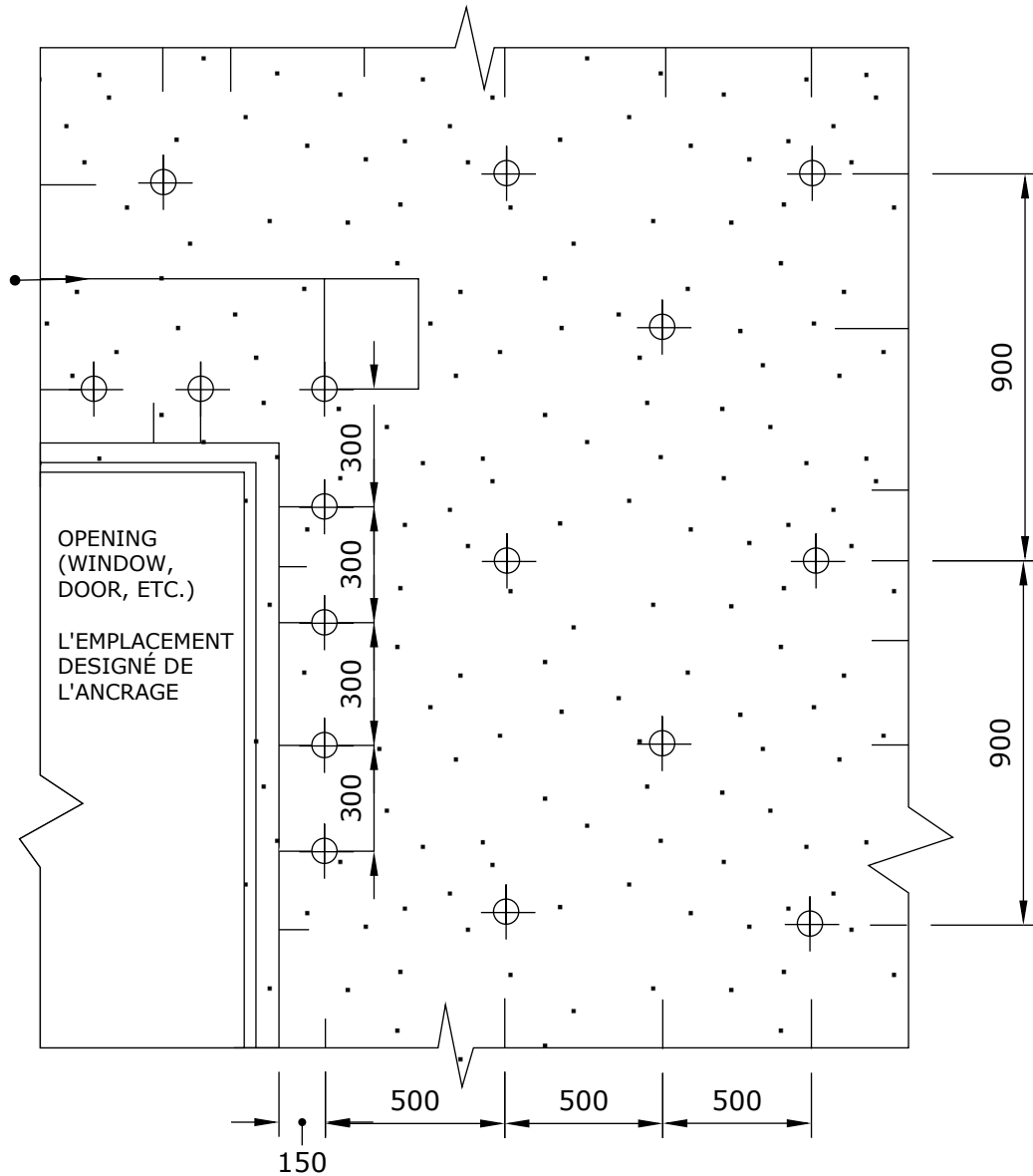
WALL TIE SPACING



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TIES AROUND OPENINGS

ANCRAGES AUTOUR DES OUVERTURES



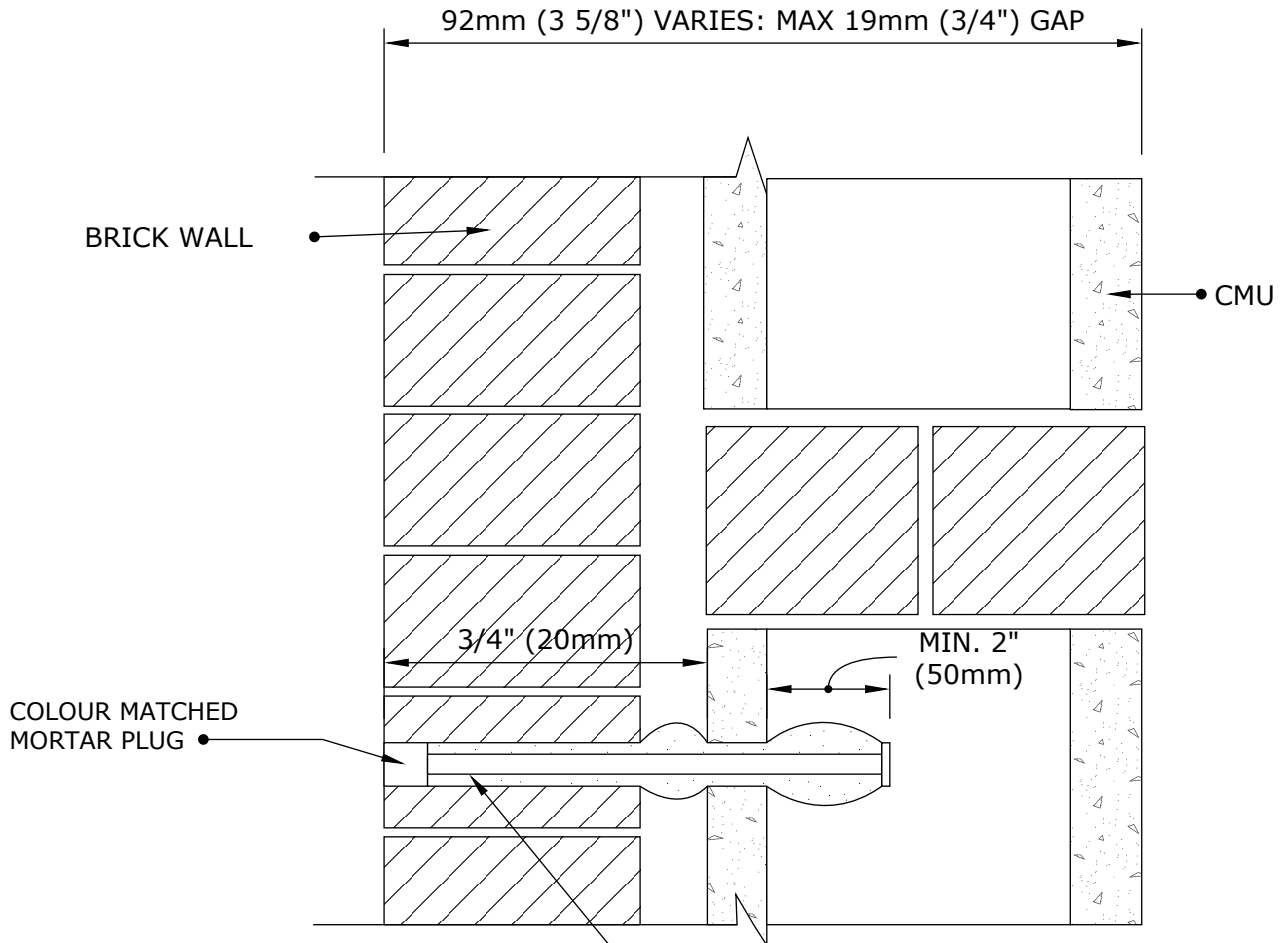
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WALL TIE SPACING



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- ANCHOR:
- 10x1 (3/8") CHS TYPE RAC WALL TIE
 - OVERSIZED SOCK IN 19mm (3/4") HOLE

- NOTES:
1. WALL TIE ANCHOR TO BE INSTALLED IN DIAMOND PATTERN WITH 600mm VERTICAL SPACING AND 1000mm HORIZONTAL SPACING.
 2. TOTAL ANCHOR LENGTH TO BE CONFIRMED BY CLIENT.

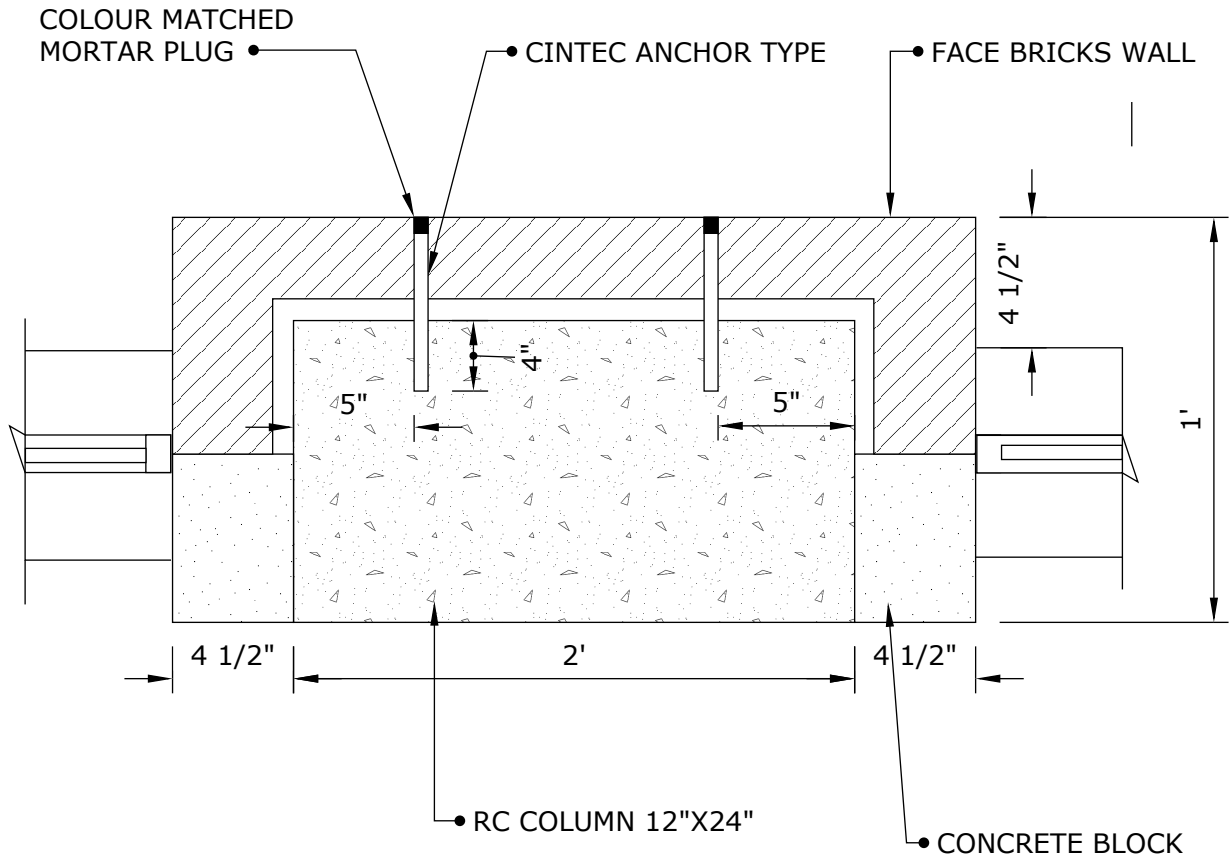


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Drawing Title:
**MASONRY
STABILIZATION WALL
TIE ANCHOR**



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CINTEC ANCHOR:

- 10x1 mm (3/8") CHS STAINLESS STEEL WALL TIE
- SOCK TO FIT 20mm (3/4") DIA. HOLE
- MINIMUM EMBEDMENT LENGTH IN SOLID CONCRETE 4"
- CLIENT TO CHECK TOTAL ANCHOR LENGTH PRIOR TO ORDERING
- FILL EXTERNAL FACE WITH COLOR MATCHED MORTAR PLUG



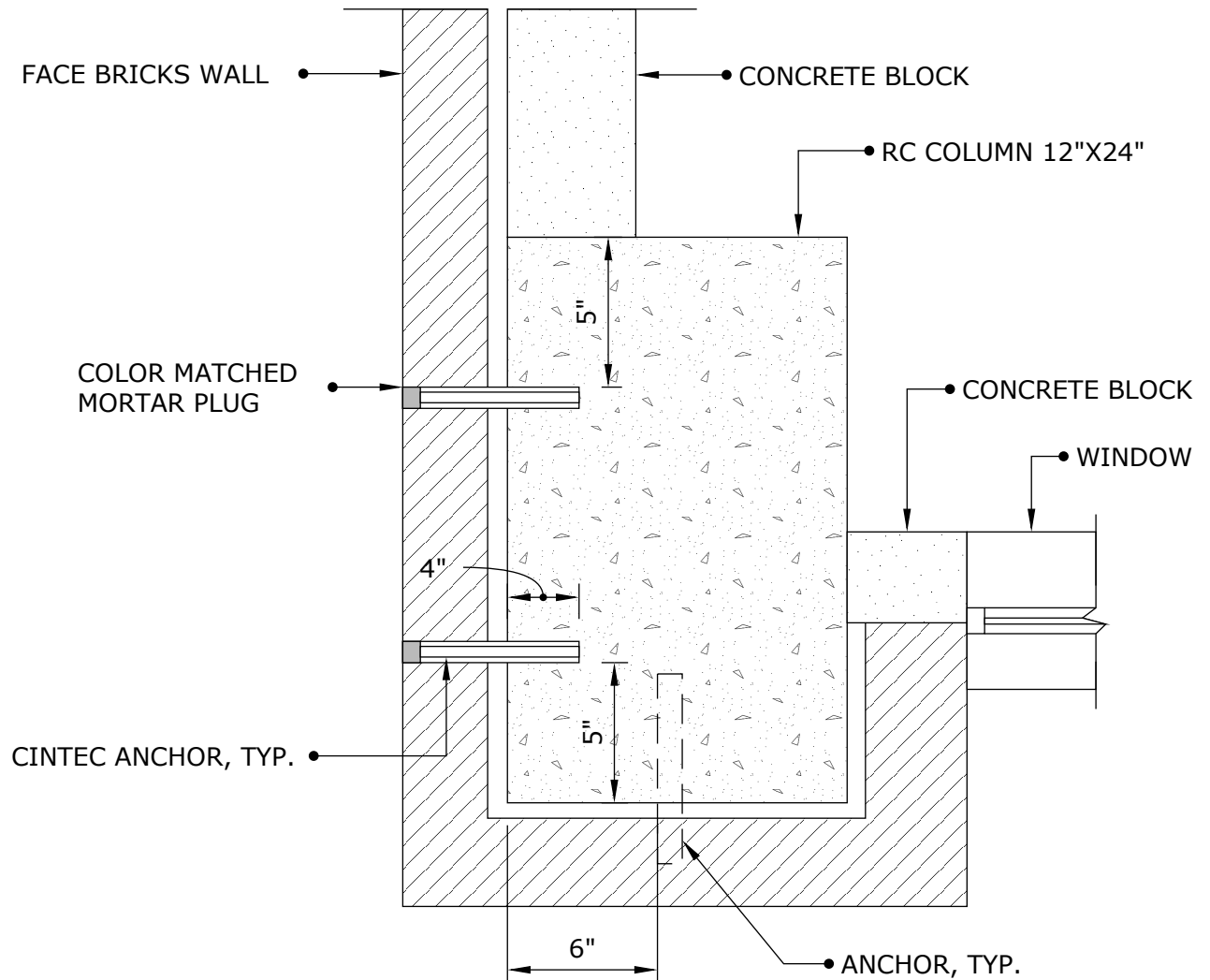
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Drawing Title:

**WALL TIE ANCHOR
 TYPICAL COLUMN
 SECTION**



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CINTEC ANCHOR:

- 10x1 mm (3/8") CHS STAINLESS STEEL WALL TIE
- SOCK TO FIT 20mm (3/4") DIA. HOLE
- MINIMUM EMBEDMENT LENGTH IN SOLID CONCRETE 4"
- CLIENT TO CHECK TOTAL ANCHOR LENGTH PRIOR TO ORDERING
- FILL EXTERNAL FACE WITH COLOR MATCHED MORTAR PLUG



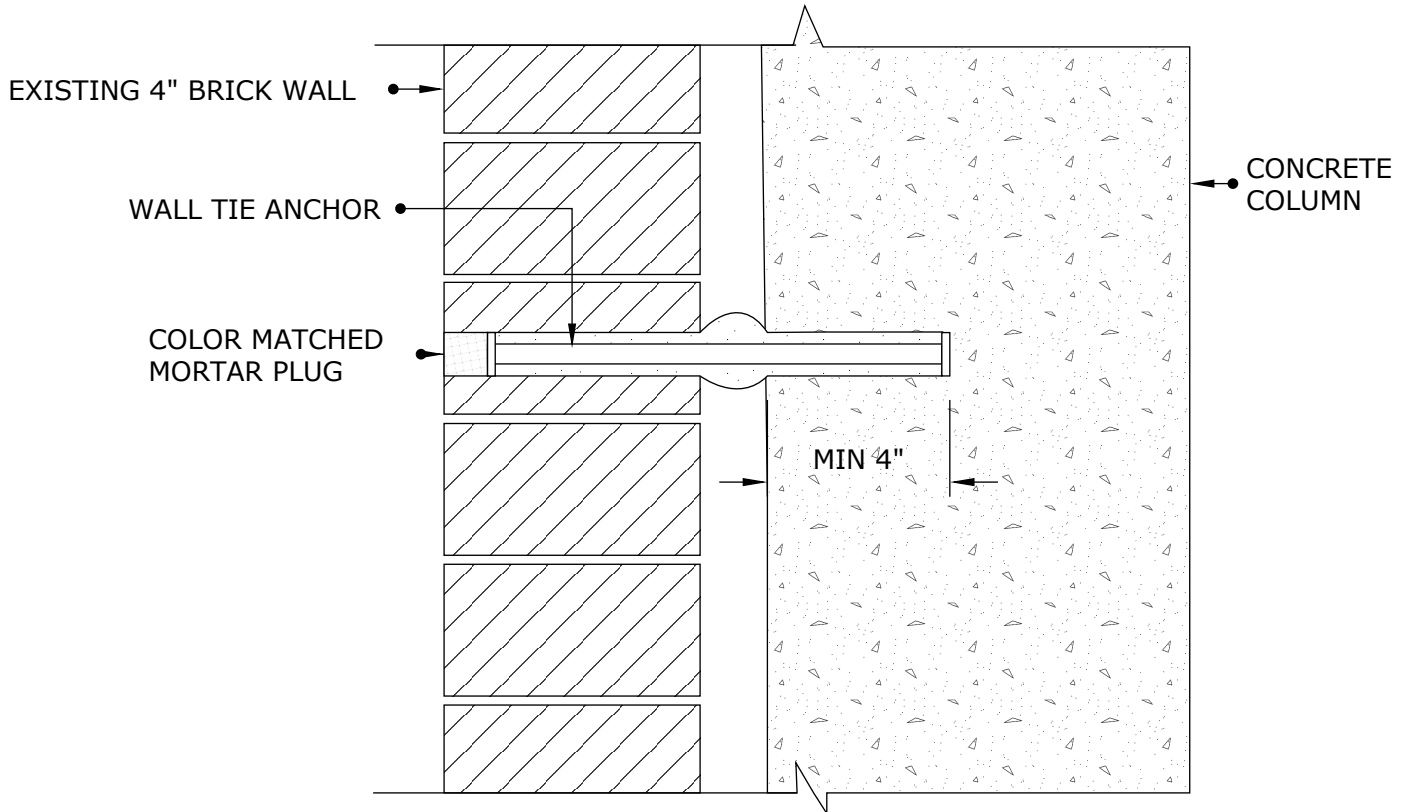
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Drawing Title:

**WALL TIE ANCHOR
 CORNER COLUMN
 SECTION**



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CINTEC ANCHOR:

- 10x1 mm (3/8") CHS STAINLESS STEEL WALL TIE, IN DIAMOND PATTERN
- SOCK TO FIT 20mm (3/4") DIA. HOLE
- MINIMUM EMBEDMENT LENGTH IN SOLID CONCRETE 4"
- CLIENT TO CHECK TOTAL ANCHOR LENGTH PRIOR TO ORDERING
- FILL EXTERNAL FACE WITH COLOR MATCHED MORTAR PLUG



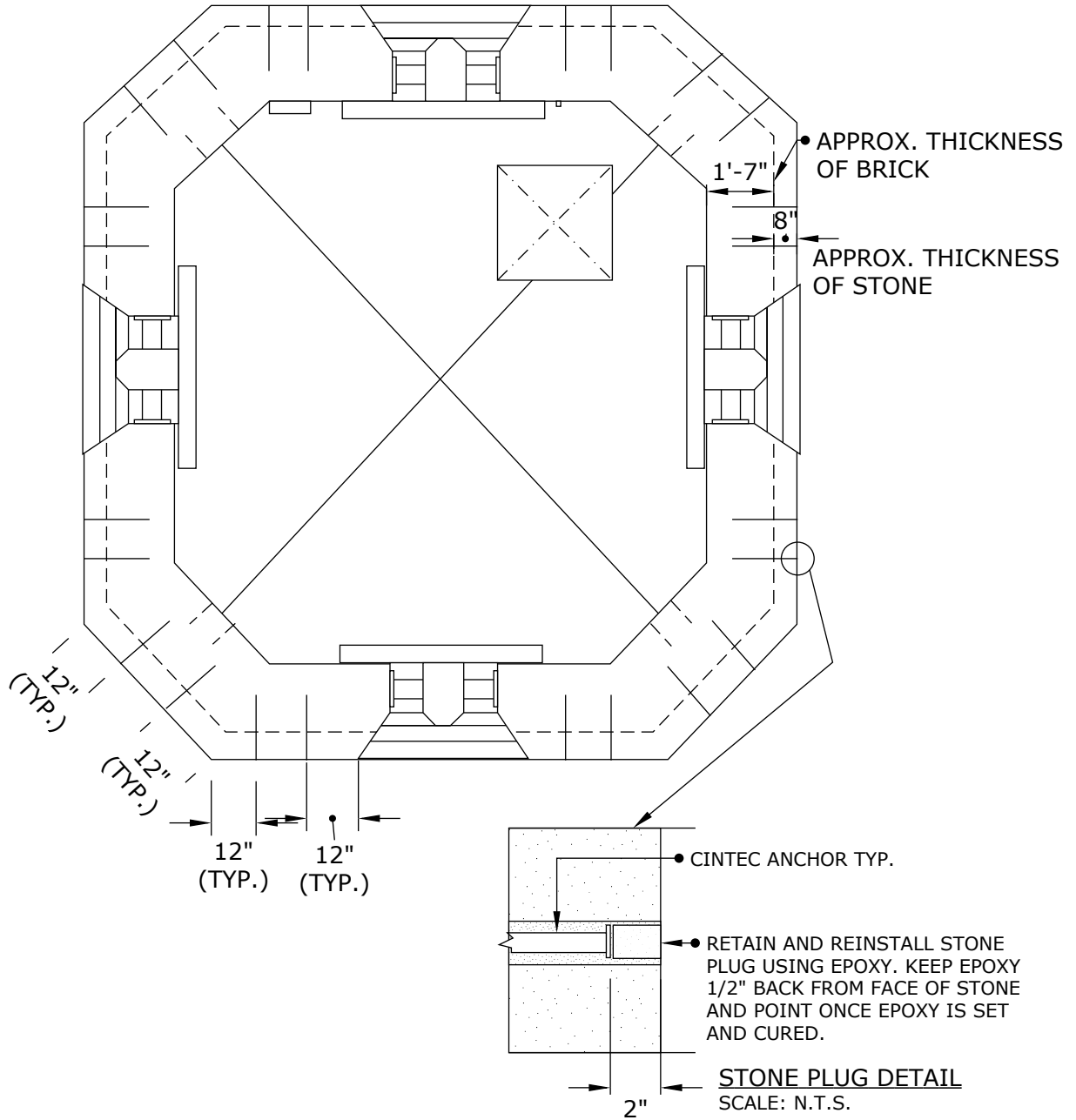
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Drawing Title:

**WALL TIE ANCHOR
BRICK STABILIZATION**



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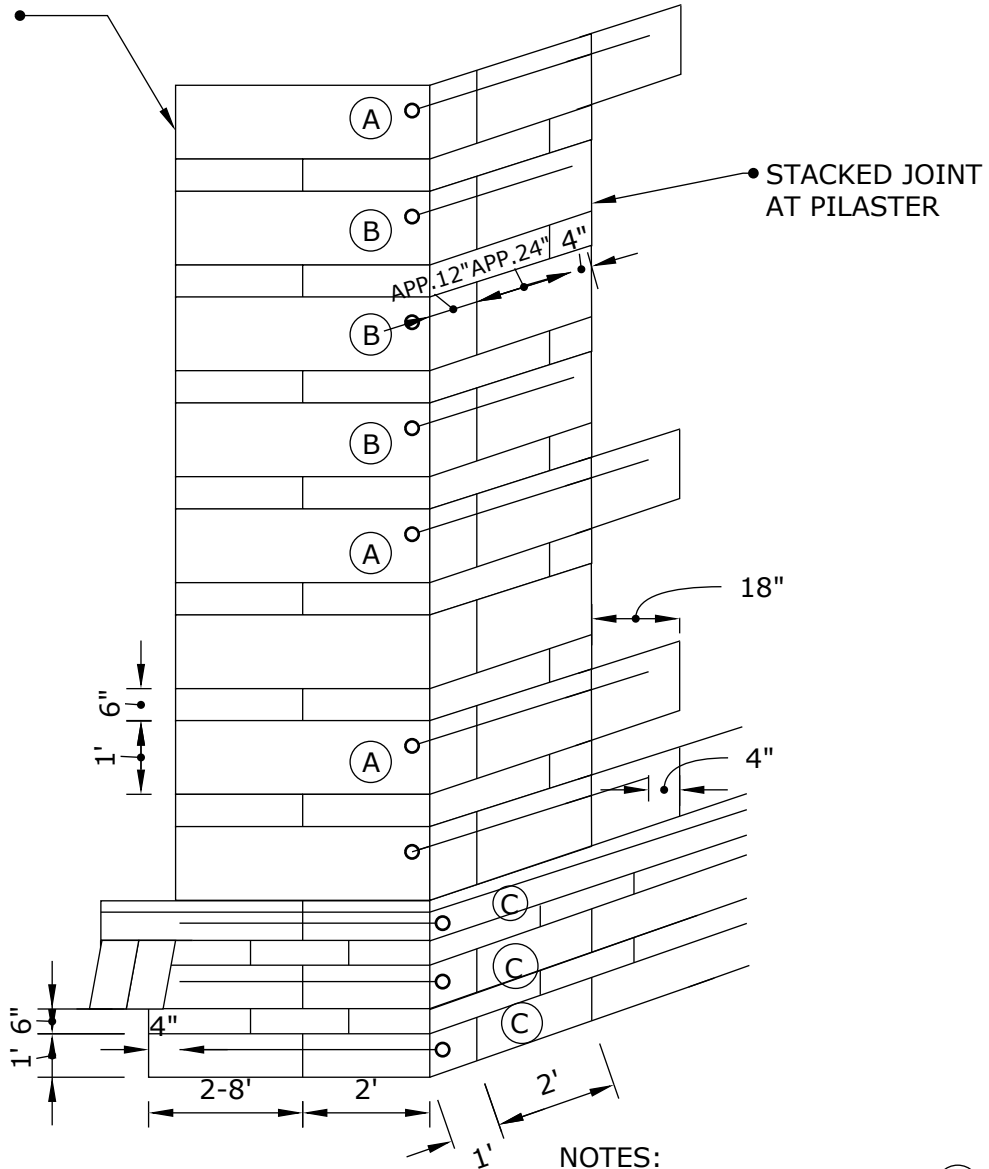
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TOWER REPAIRS WALL TIE ANCHOR PLAN AT BELFRY LEVEL



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STACKED JOINT AT PILASTER



NOTES:
FOR CINTEC ANCHOR TYPE (A) (B) (C)
SEE DRAWING (D/A?)



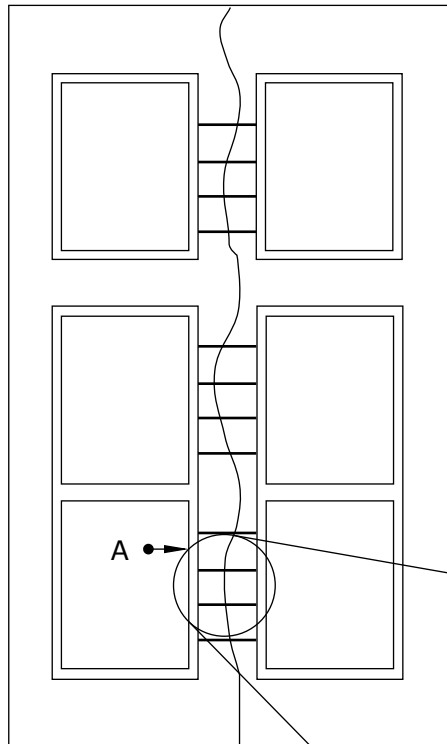
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E-mail: solutions@cintec.com

Drawing Title:

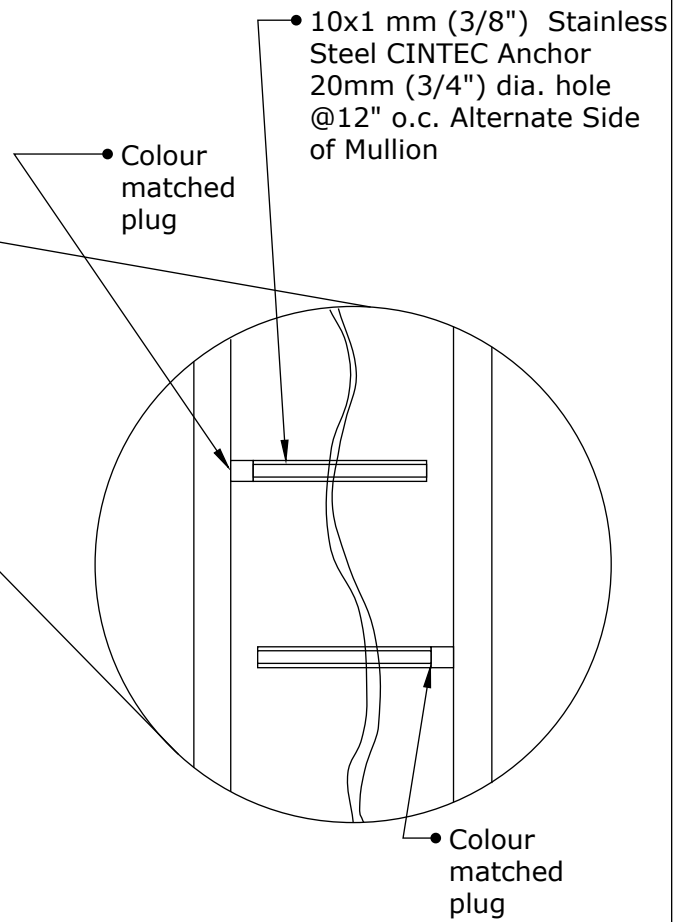
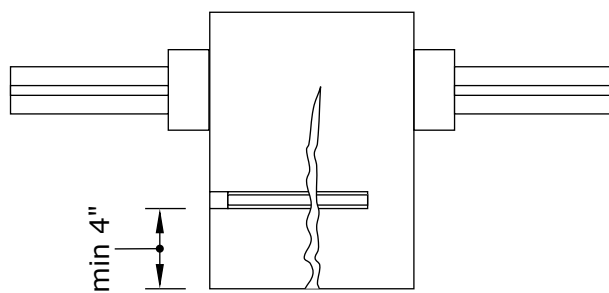
CORNER STITCHING ANCHOR LAYOUT



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A-A SECTION DETAIL



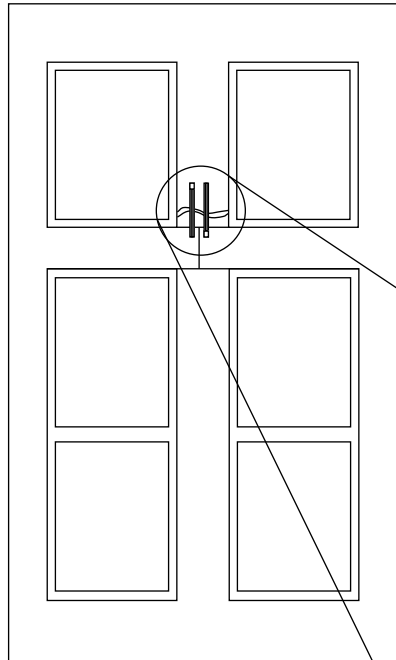
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Drawing Title:

MULLION STITCHING DESIGN

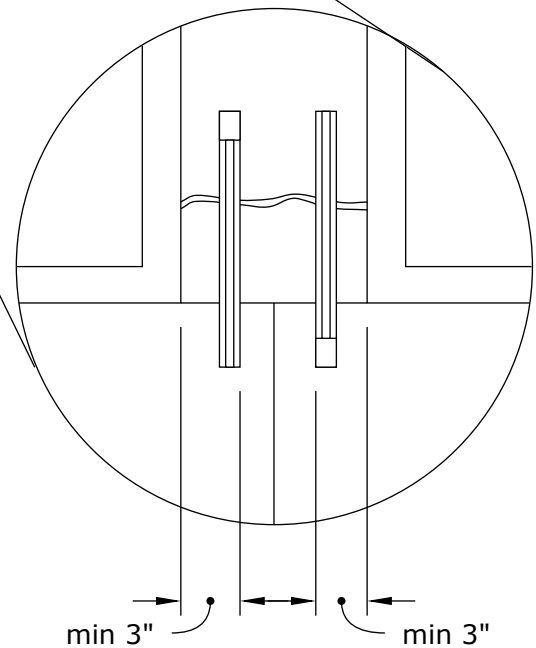
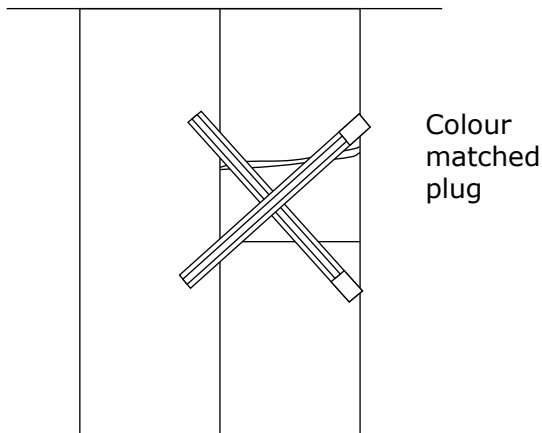


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10x1 (3/8") Stainless Steel
CINTEC Anchor
20mm (3/4") dia. Hole,
@12" o.c. Alternate Side of
Mullion.

A-A SECTION DETAIL



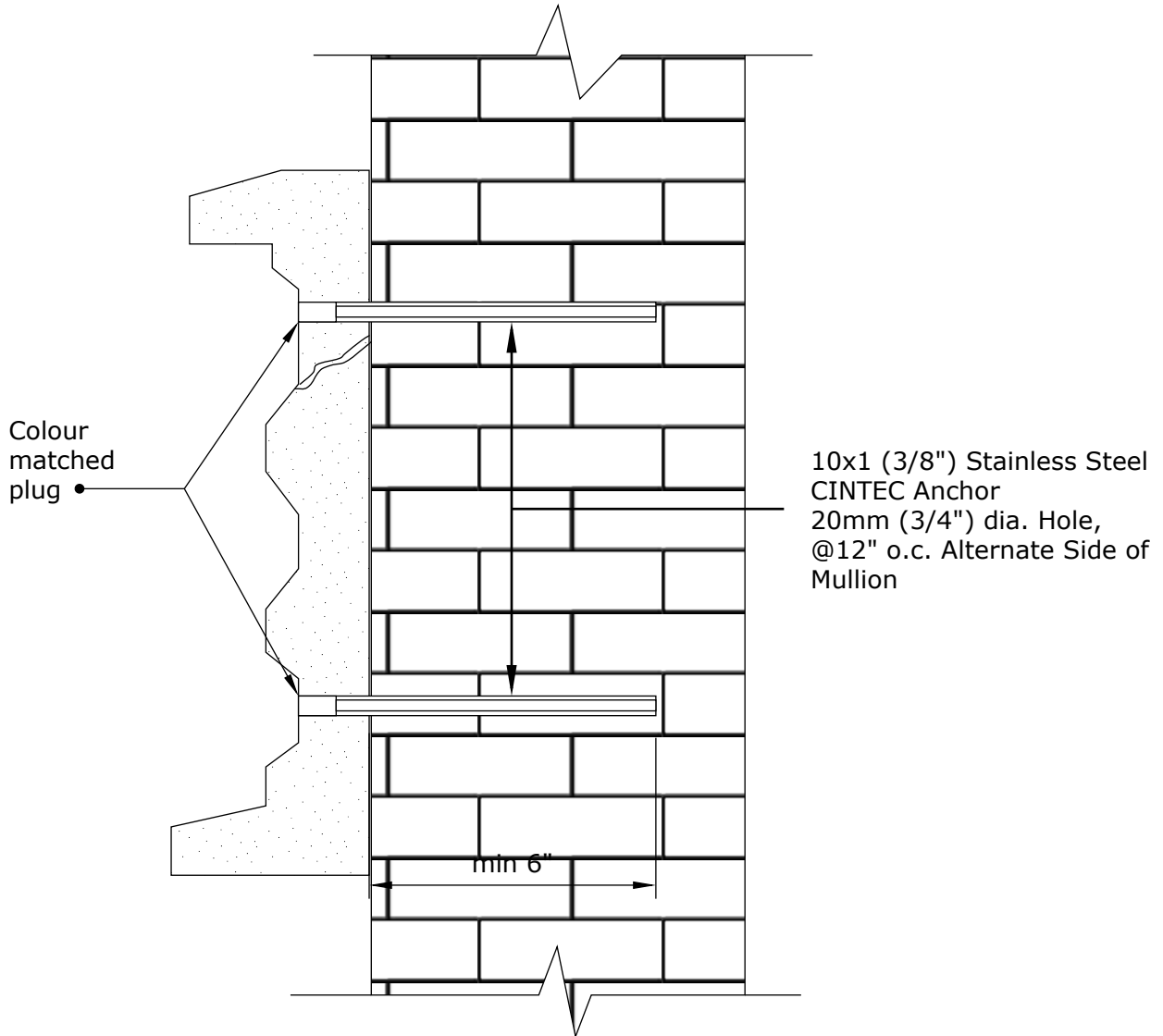
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Drawing Title:

**CRACKS AT WINDOW
STITCHING**



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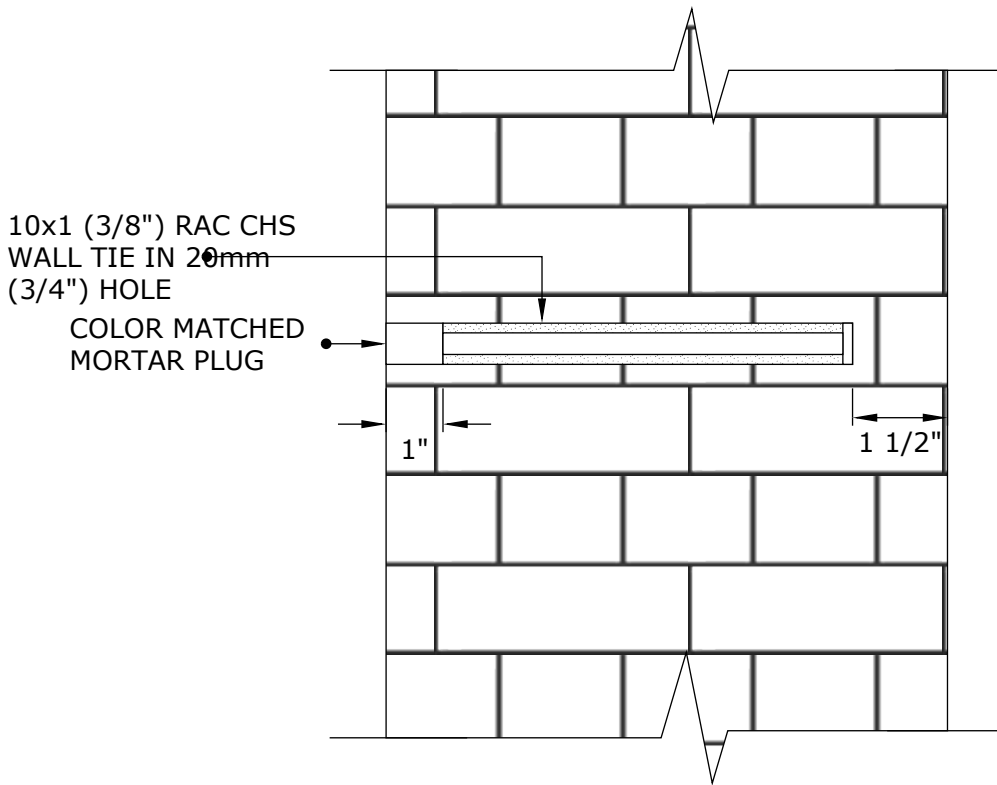
Drawing Title:

**STONE RELIEF
STITCHING**



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CINTEC RAC CHS STAINLESS STEEL ANCHOR



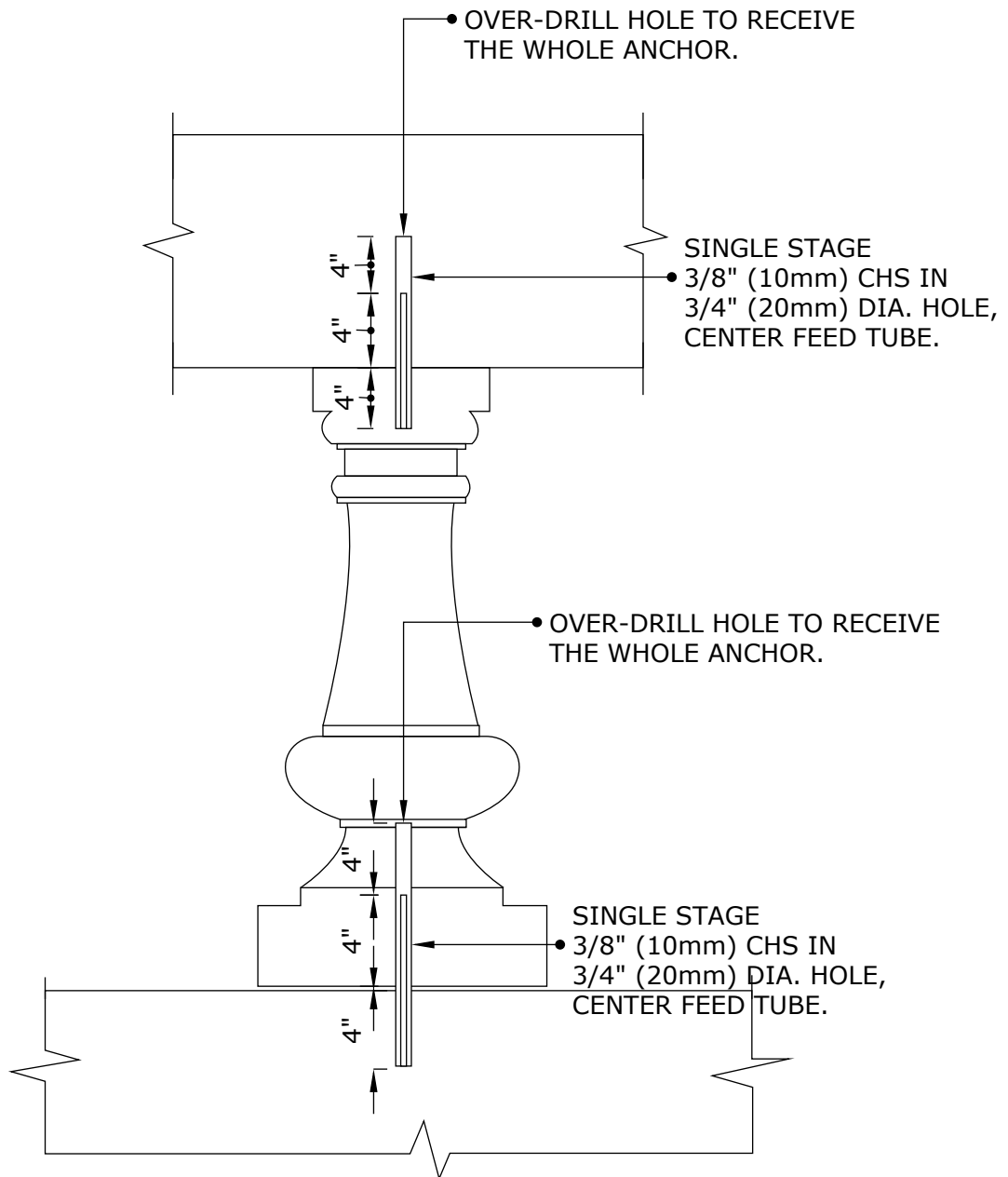
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Drawing Title:

**BRICK WALL
STABILIZATION**



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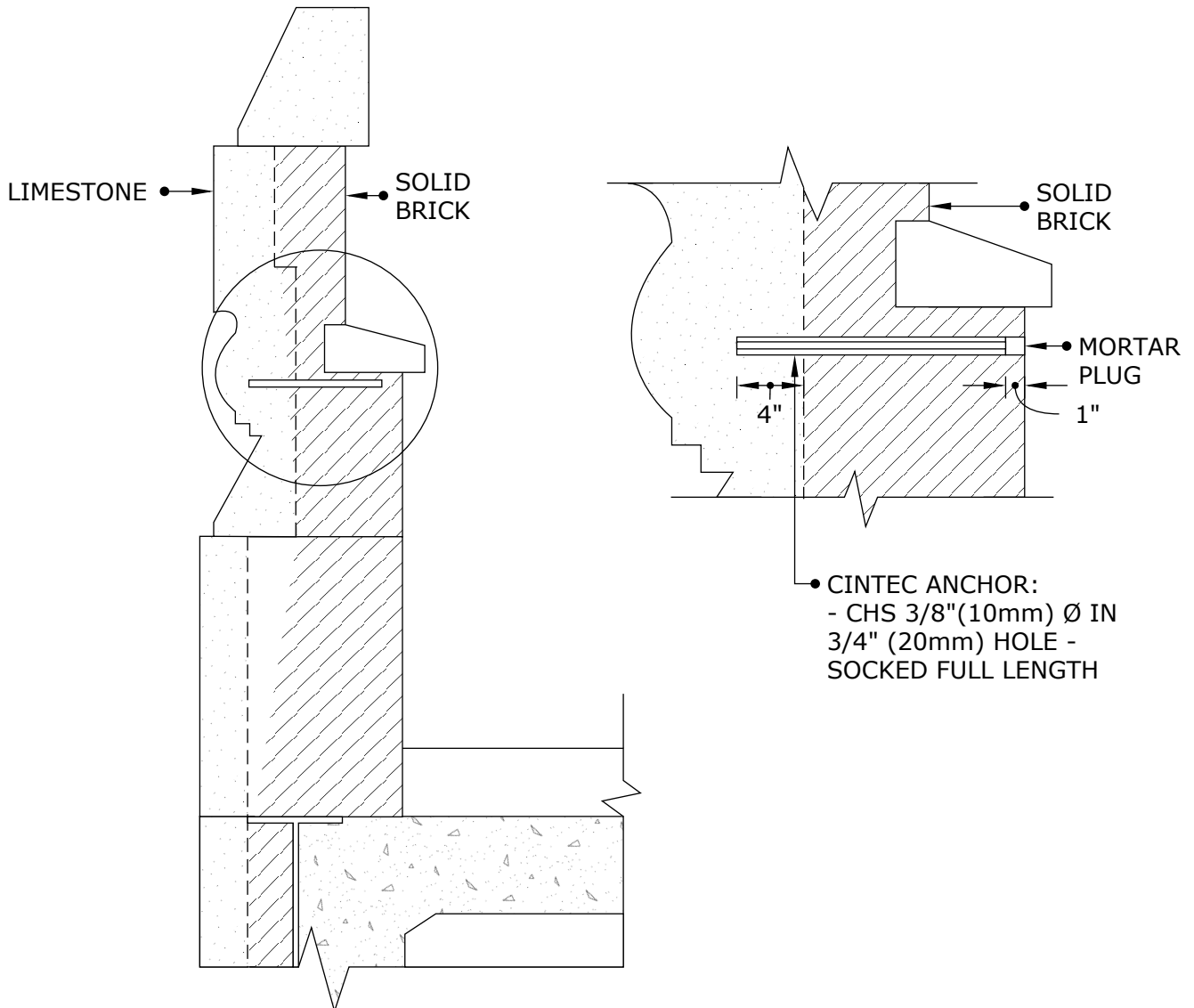
Drawing Title:

PARTIAL ELEVATION



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CINTEC RAC CHS STAINLESS STEEL ANCHOR



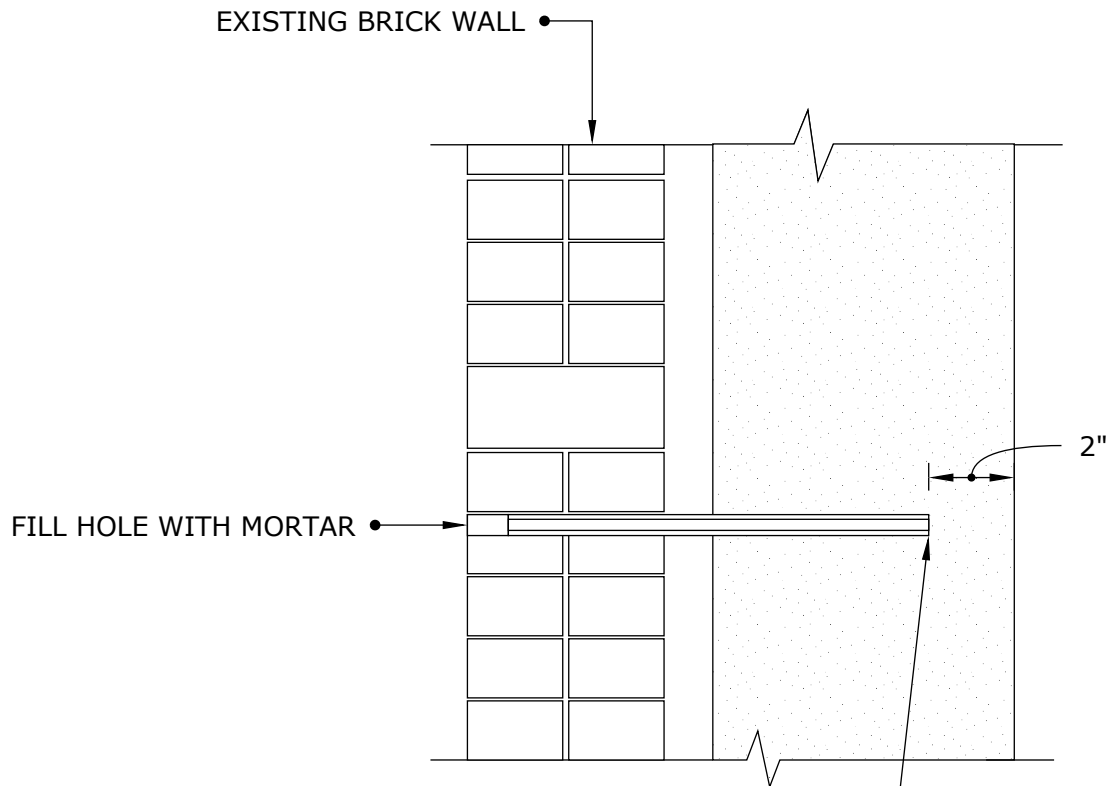
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Drawing Title:

PARAPET ANCHOR



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- 10mm x 1mm (3/8") HOLLOW CIRCULAR SECTION W/END PLATE IN 20mm (3/4") HOLE
- ANCHOR LENGTH TO BE DETERMINED ON SITE
- SOCKED FULL LENGTH



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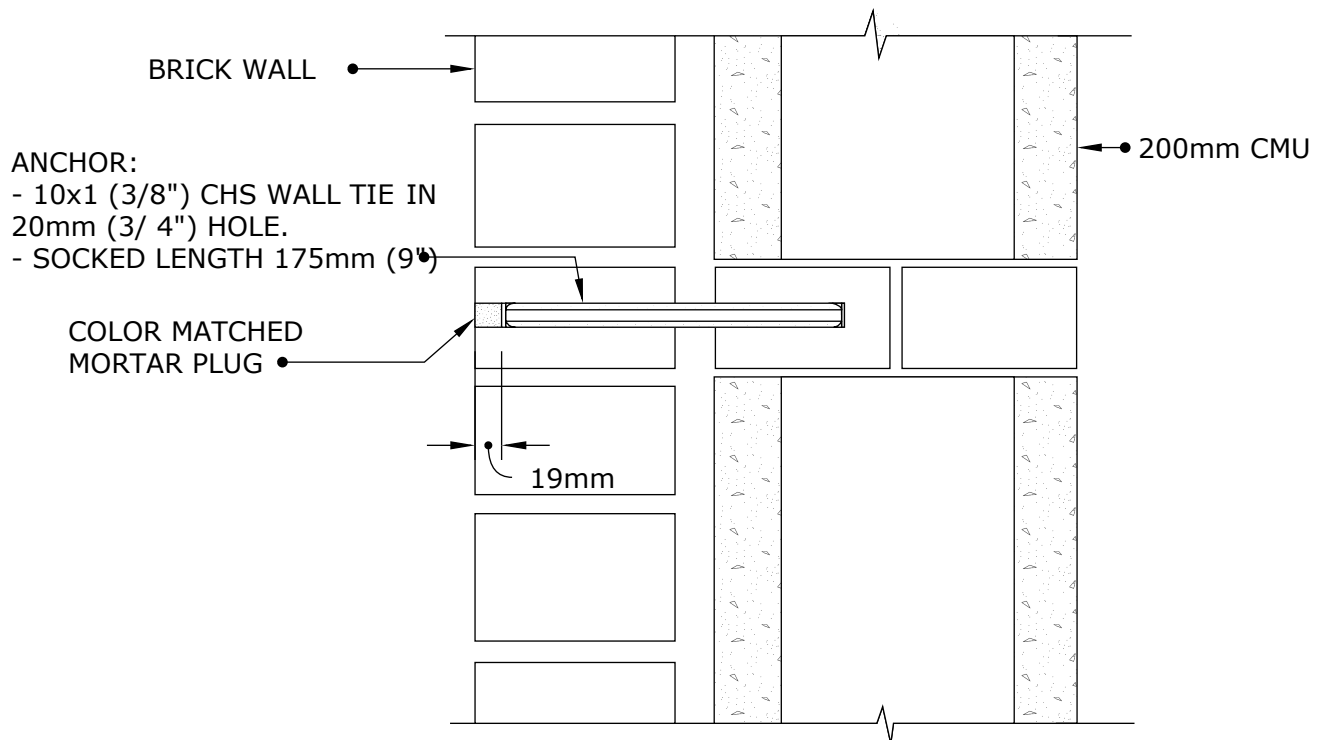
Drawing Title:

CINTEC ANCHOR



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CINTEC RAC CHS STAINLESS STEEL ANCHOR



NOTES:

1. WALL TIE ANCHOR TO BE INSTALLED AT 600mm VERTICAL SPACING AND 1000mm HORIZONTAL SPACING
2. ANCHORS SHOULD BE INSTALLED IN BRICK HEADER COURSES OR CONCRETE BLOCK



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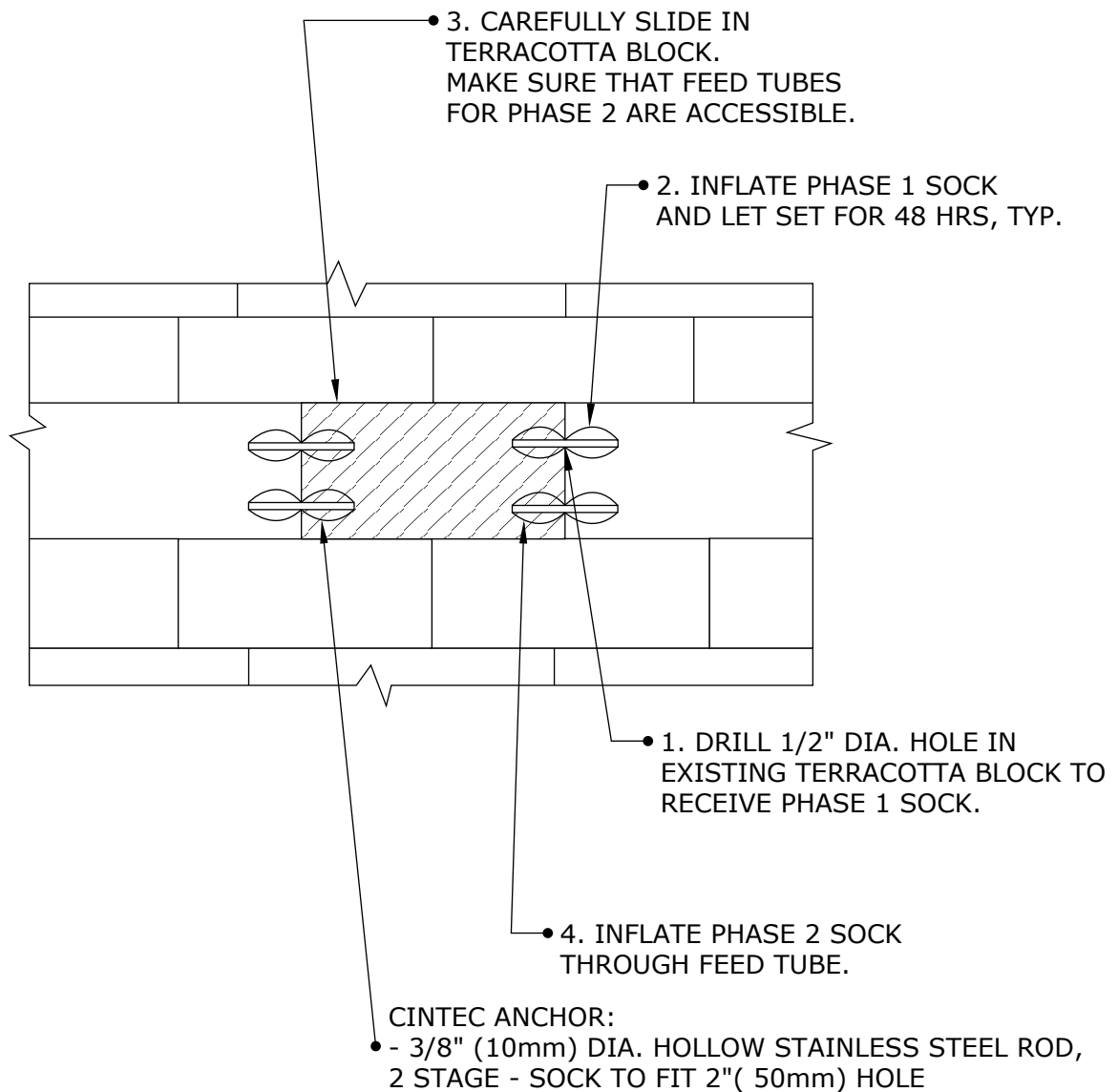
Drawing Title:

**BRICK WALL
STABILIZATION**



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CINTEC RAC CHS STAINLESS STEEL ANCHOR



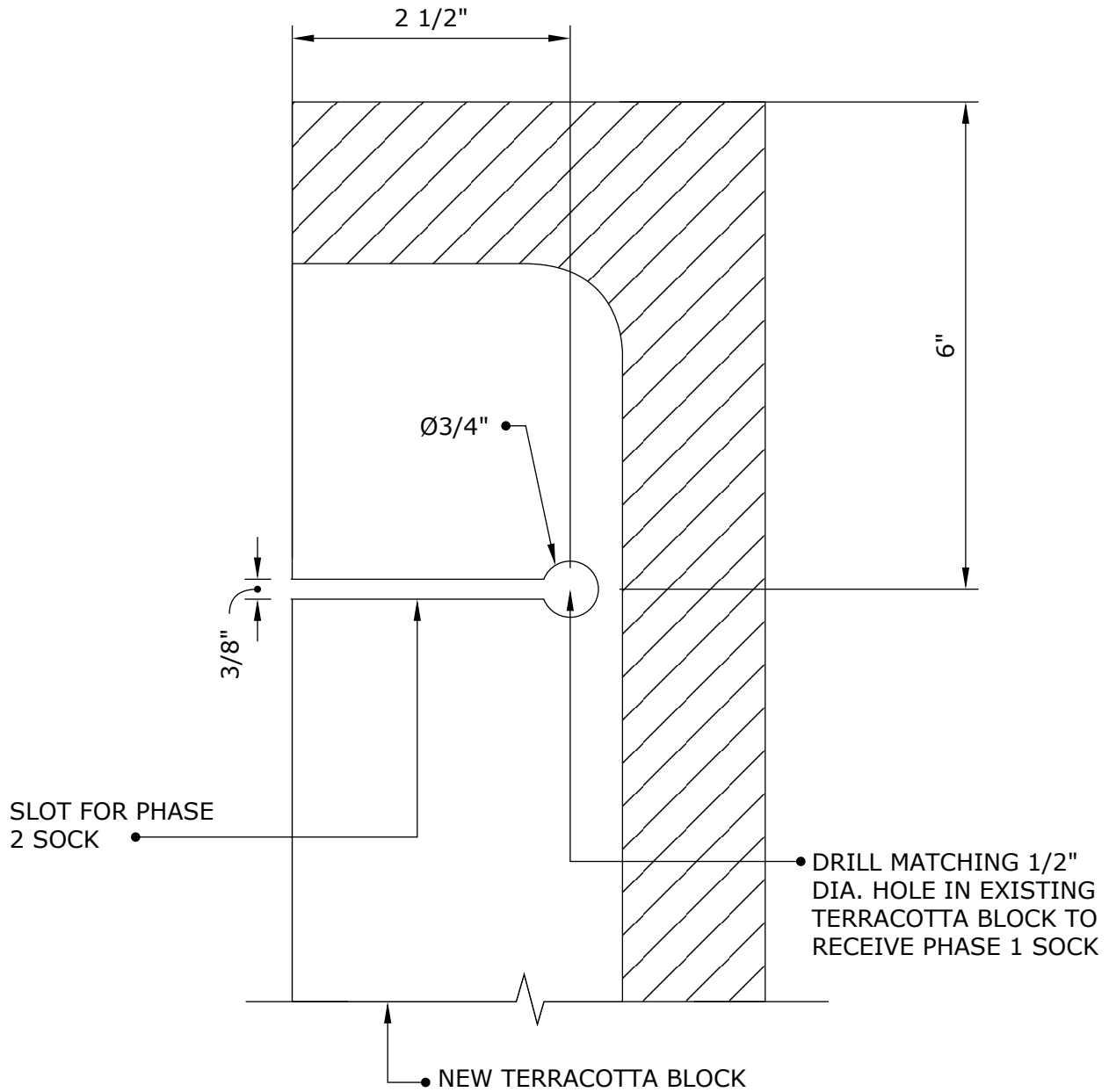
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Drawing Title:

**NEW TERRACOTTA
BLOCK INSTALLATION**



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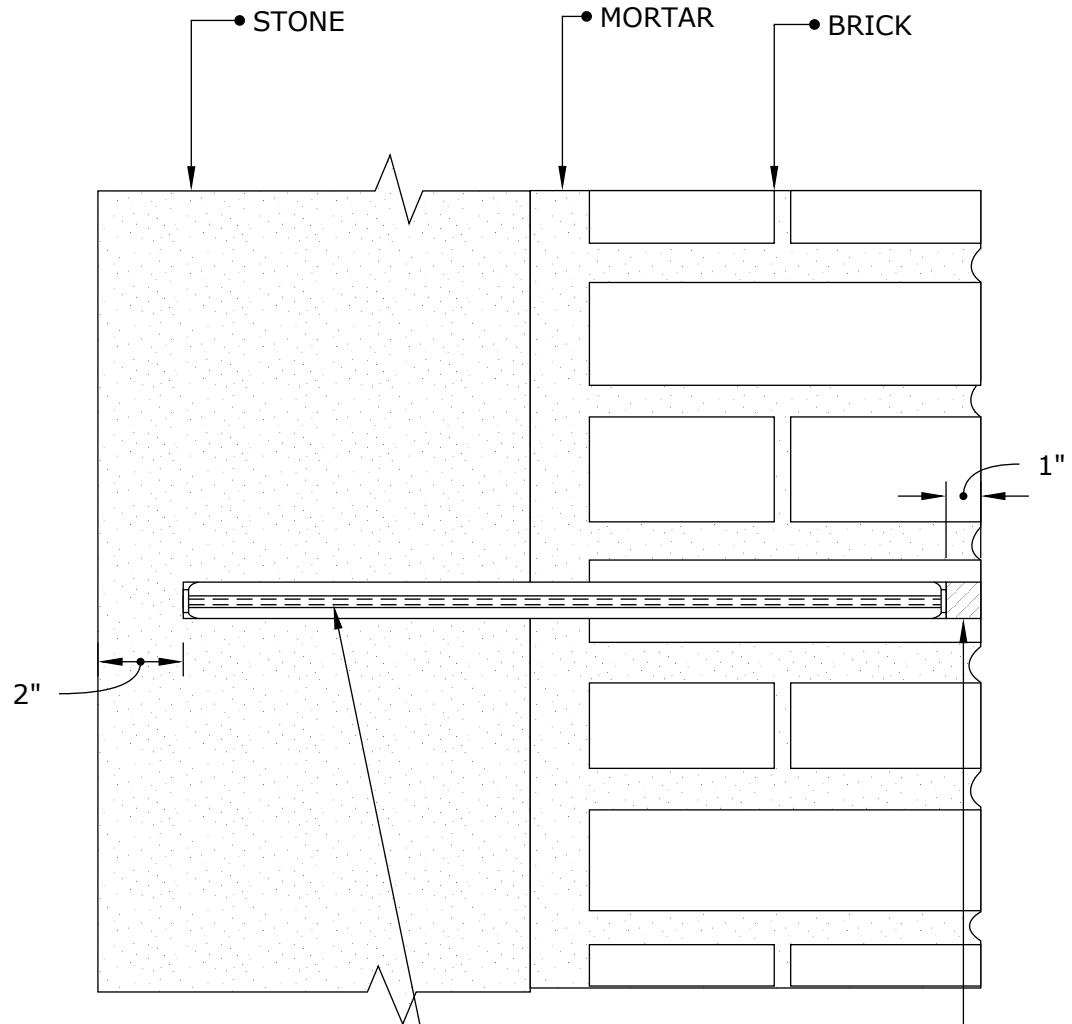
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Drawing Title:

**NEW TERRACOTTA
BLOCK INSTALLATION
DETAIL**



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- CINTEC ANCHOR:**
- 3/8" (10mm) DIA. CHS
 - SOCKED FULL LENGTH
 - LENGTH TO BE DETERMINED ON SITE

RESTORE HOLE AS PER ARCHITECT'S INSTRUCTION



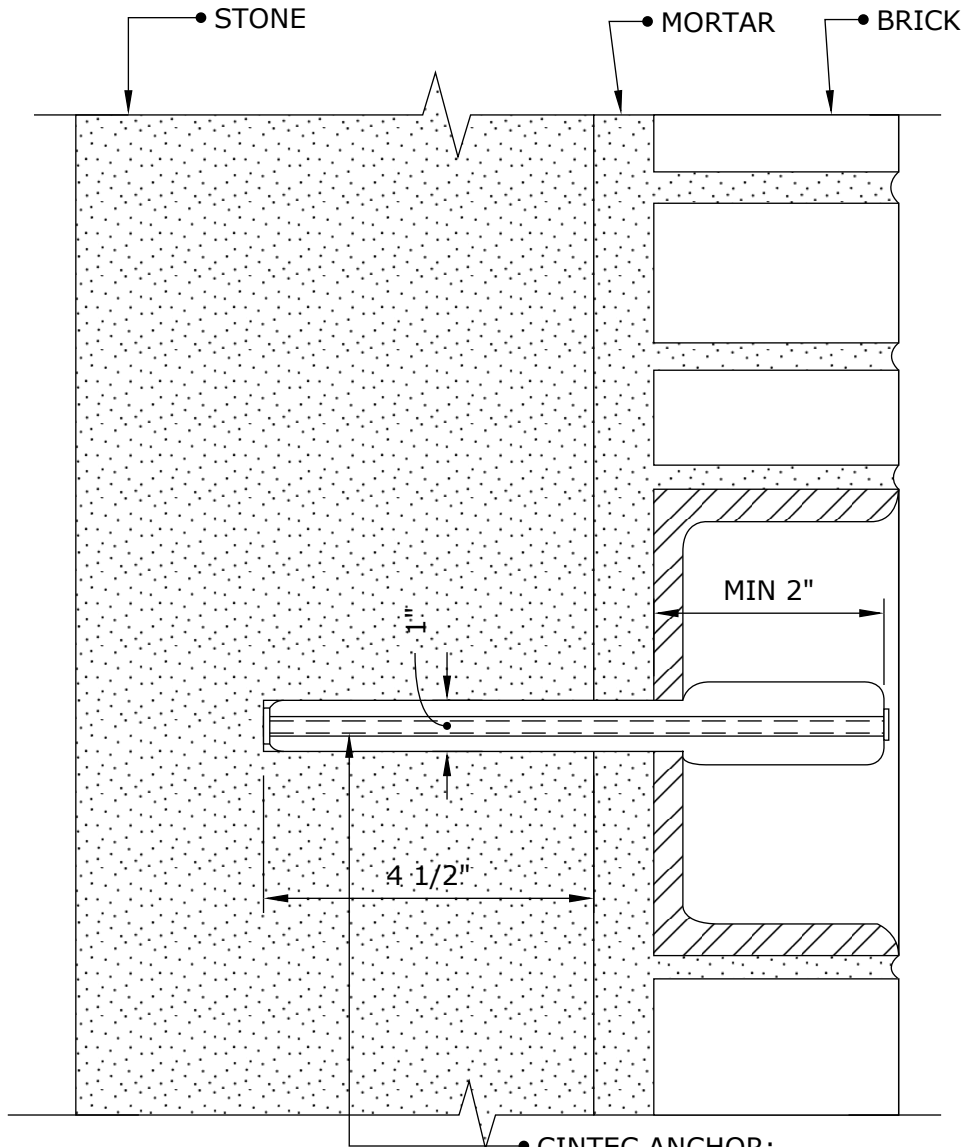
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Drawing Title:

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- CINTEC ANCHOR:
 - 3/8" Ø (10mm) CHS
 - SOCKED FULL LENGTH
 - LENGTH TO BE DETERMINED ON SITE



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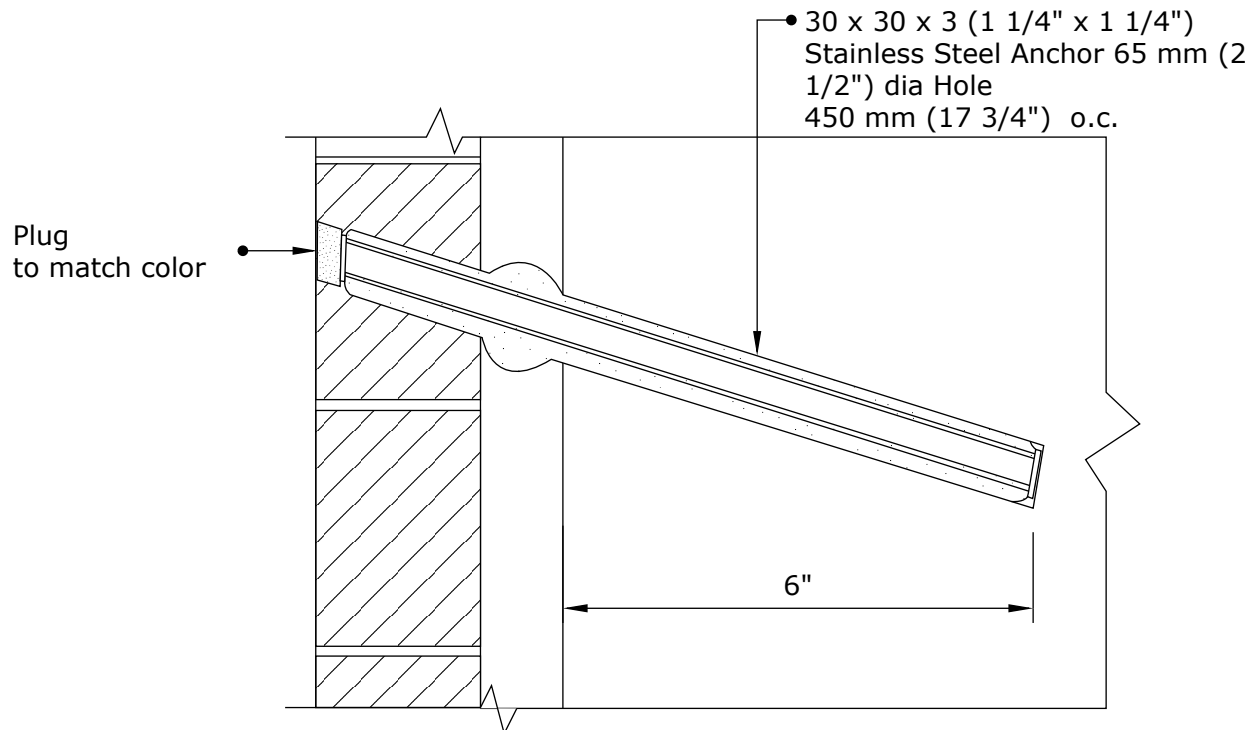
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CINTEC ANCHOR



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CINTEC SHS STAINLESS STEEL ANCHOR



NOTES:

Schematic Drawing Only



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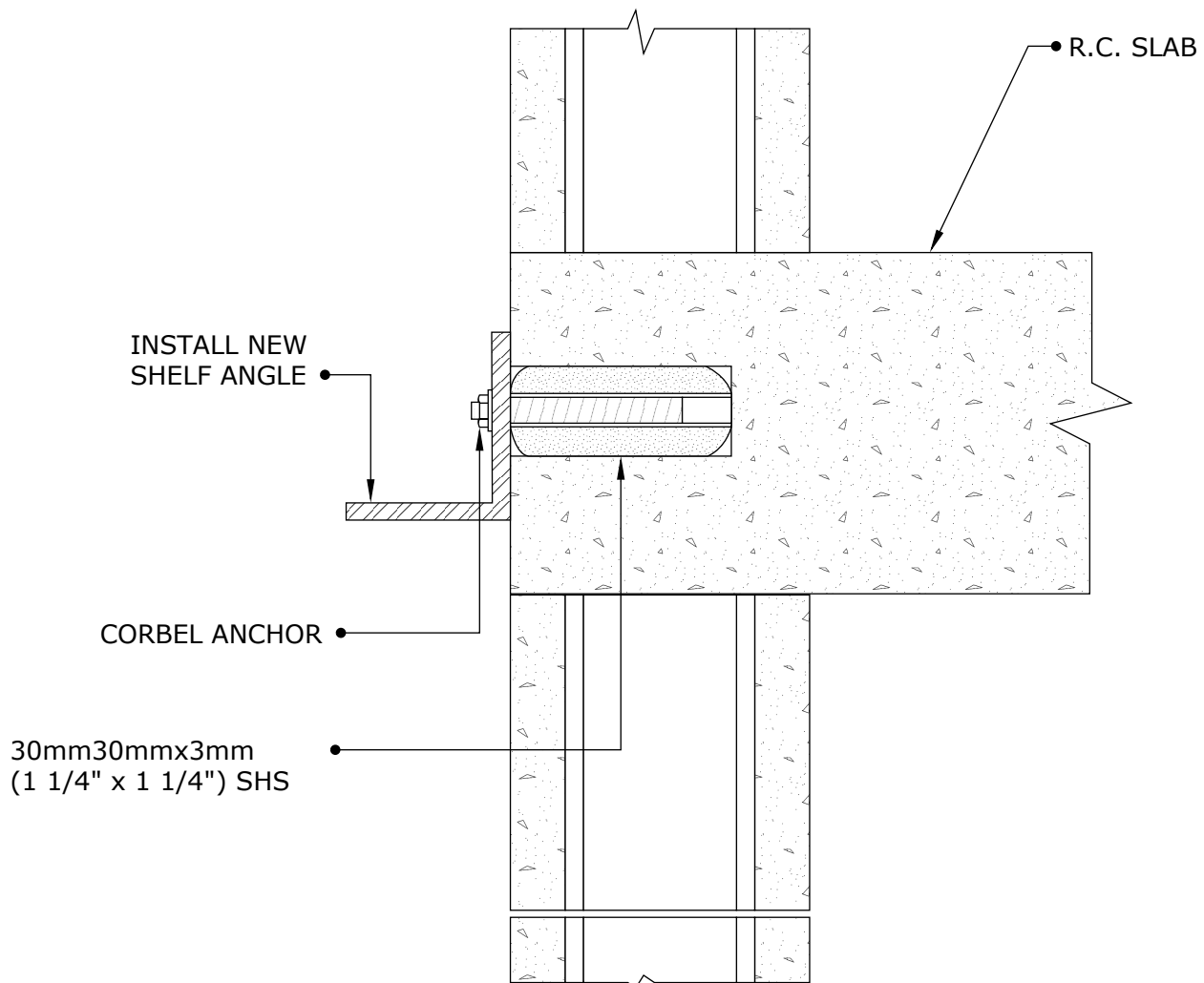
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CORBEL ANCHOR DETAIL



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CINTEC SHS STAINLESS STEEL ANCHOR



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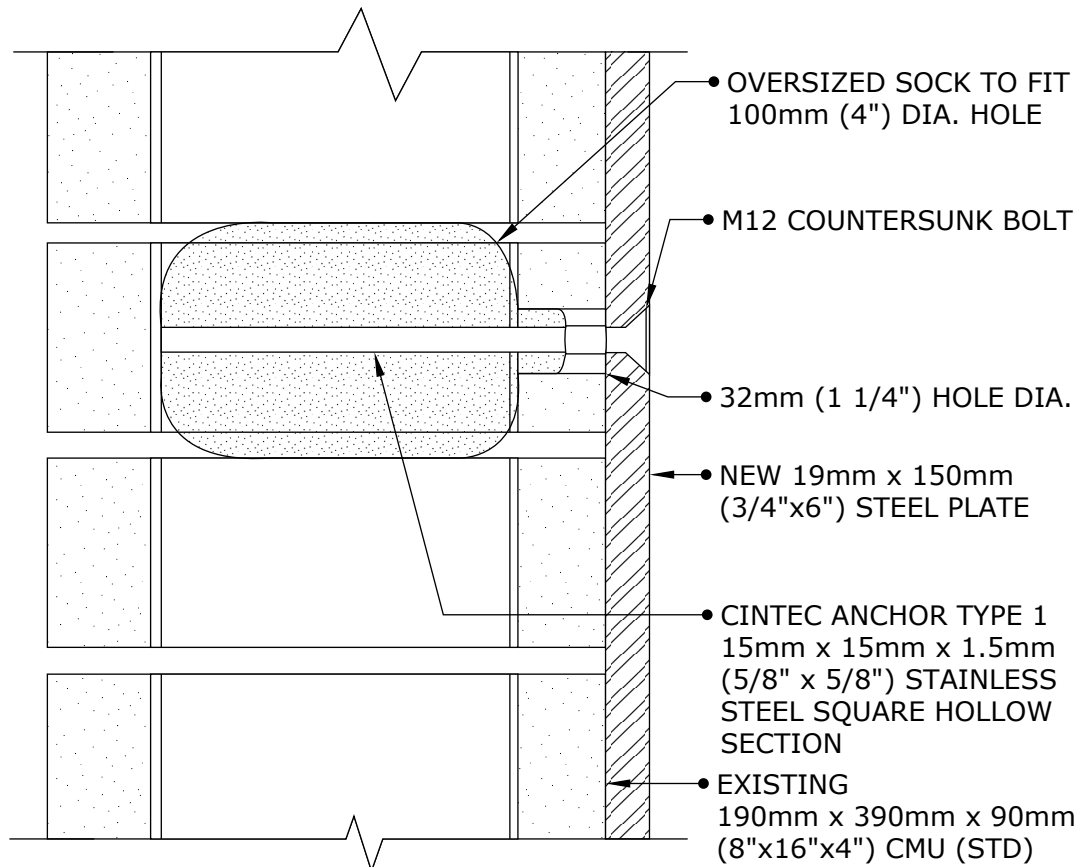
Drawing Title:

CORBEL ANCHOR



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CINTEC SHS STAINLESS STEEL ANCHOR



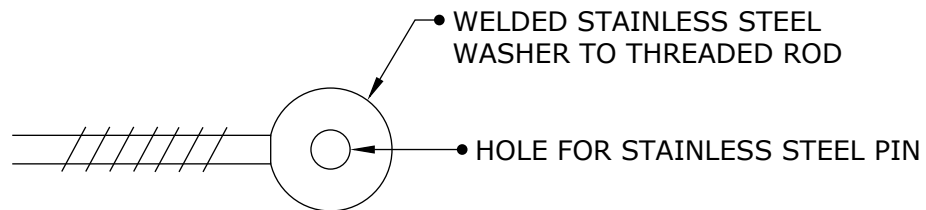
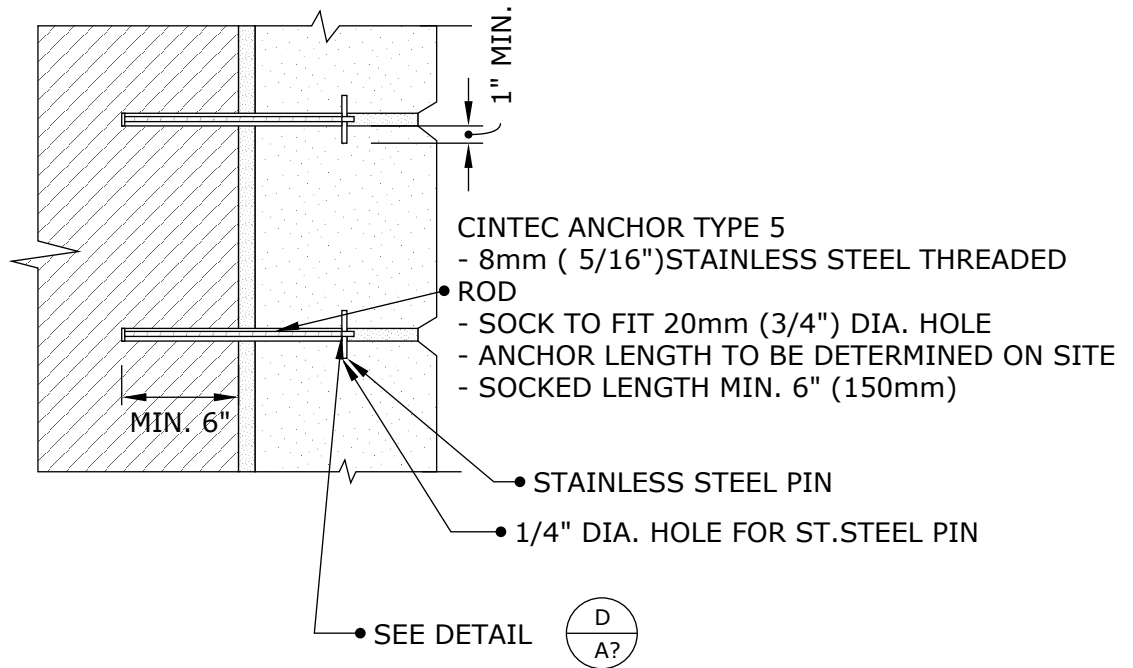
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DETAIL A
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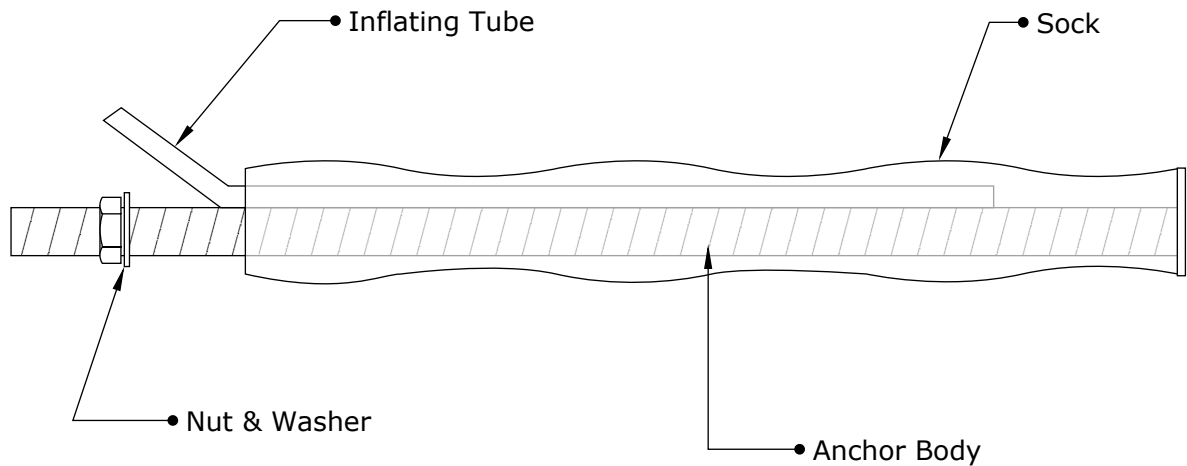
Drawing Title:

**CINTEC ANCHOR
 STONE STABILIZATION**



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CINTEC M10 (3/8") SRT STAINLESS STEEL ANCHOR



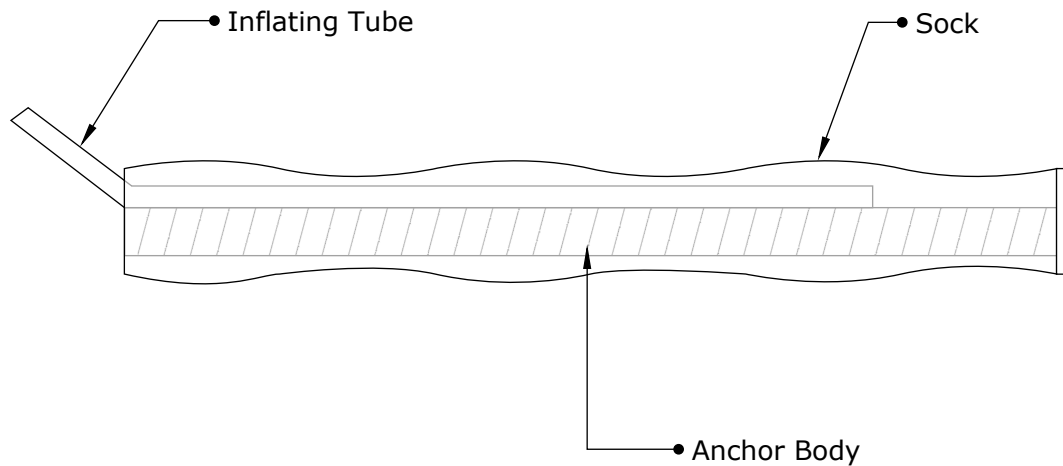
ANCHOR BODY	SOCK	WASHER
SS 304 M10 (3/8") Solid Threaded Rod	1 1/4" (32mm) Dia Full length LESS amount of exposed thread as specified by Engineer/ Architec of record	SS 304

	Engineered Grout Injection Anchors by: Cintec Reinforcement Systems Tel: 1-410-761-0765 1-613-225-3381 Fax: 1-613-224-9042 E-mail: solutions@cintec.com	Drawing Title:
		CINTEC M10 (3/8") STAINLESS STEEL ANCHOR



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CINTEC M10 (3/8") SRT STAINLESS STEEL ANCHOR



ANCHOR BODY	SOCK	END CONDITION
SS TYPE 304 - M10 (3/8") Solid Round Threaded	Full length of Anchor Body 1 1/4" (32mm) Dia	PLAIN ENDS



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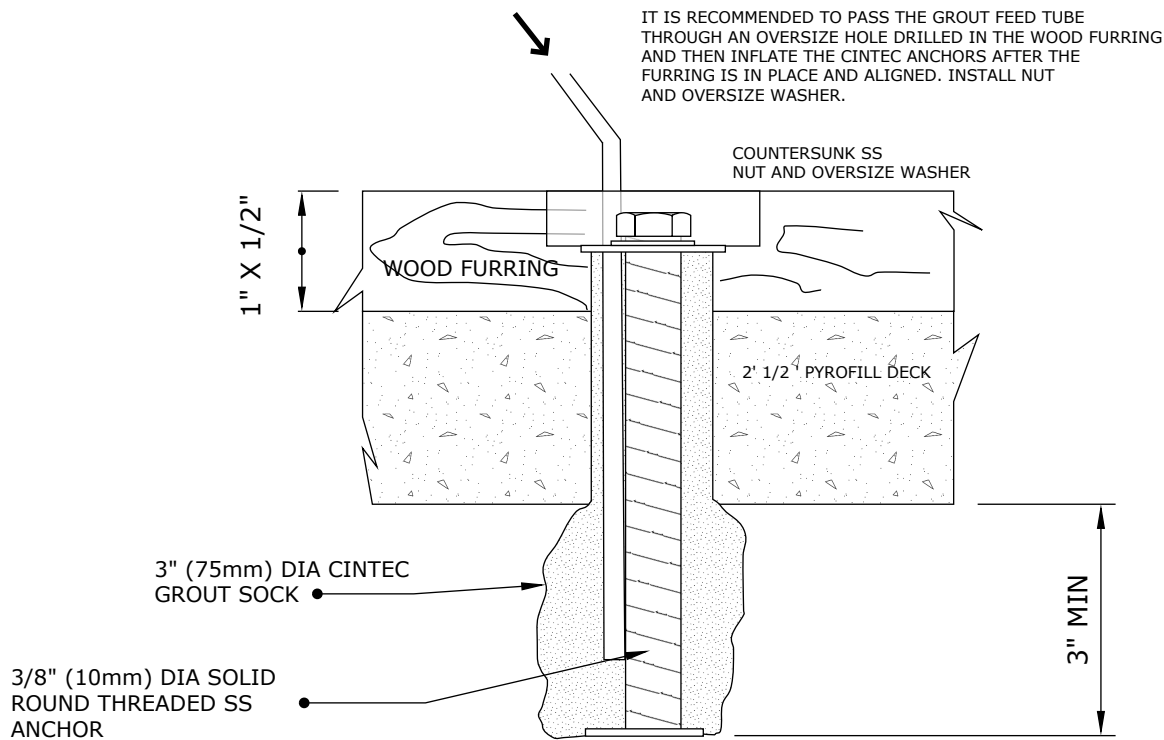
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**CINTEC M10 (3/8")
 STAINLESS STEEL
 ANCHOR**



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CINTEC M10 (3/8") SRT STAINLESS STEEL ROOF ANCHOR



ANCHOR LENGTH TO SUIT SITE CONDITIONS
Client to confirm ALL lengths before ordering.



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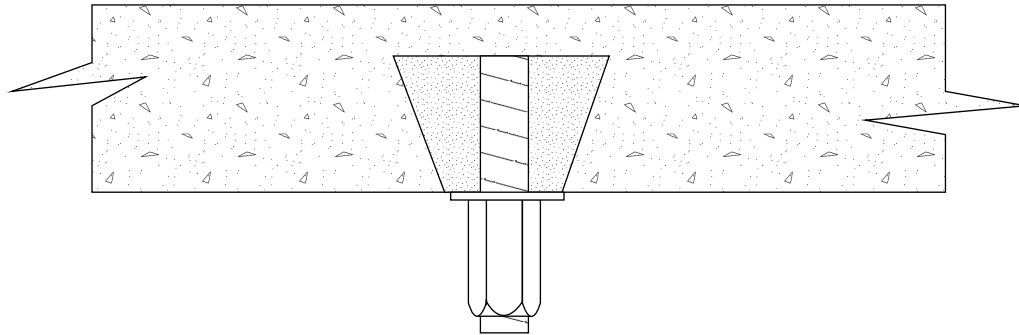
**CINTEC 3/8" M10
STAINLESS STEEL ROOF
ANCHOR**



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CINTEC M10 (3/8") SRT STAINLESS STEEL ANCHOR

3/8" (10mm) SOLID THREADED
CINTEC CEILING SUPPORT ANCHOR WITH
1 1/4" (32mm) DIA SOCK IN
1 1/4" (32mm) DIA. HOLE
-SOCKED LENGTH 3" (75mm) UNDERCUT
HOLE OUTER END
- COUPLER NUT



VERTICAL WALL SECTION
OPTION 1

PROJECT: Ceiling Supports
CONSULTANT:
LOCATION: NYNY



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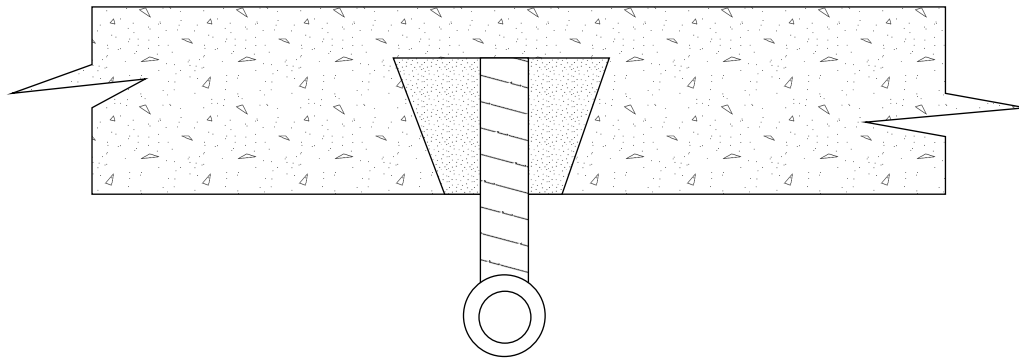
CEILING SUPPORTS



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CINTEC M10 (3/8") SRT STAINLESS STEEL ANCHOR

3/8" (10mm) SOLID THREADED
CINTEC CEILING SUPPORT
ANCHOR WITH 1 1/4" (32mm)
DIA SOCK IN 1 1/4" (32mm)
DIA. HOLE
-SOCKED LENGTH 3" (75mm)
UNDERCUT HOLE OUTER END
- EYE BOLT



VERTICAL WALL SECTION
OPTION 2

PROJECT: Ceiling Supports
CONSULTANT:
LOCATION: NYNY



Engineered Grout Injection Anchors by:
Cintec Reinforcement Systems
Tel: 1-410-761-0765
1-613-225-3381
Fax: 1-613-224-9042
E-mail: solutions@cintec.com

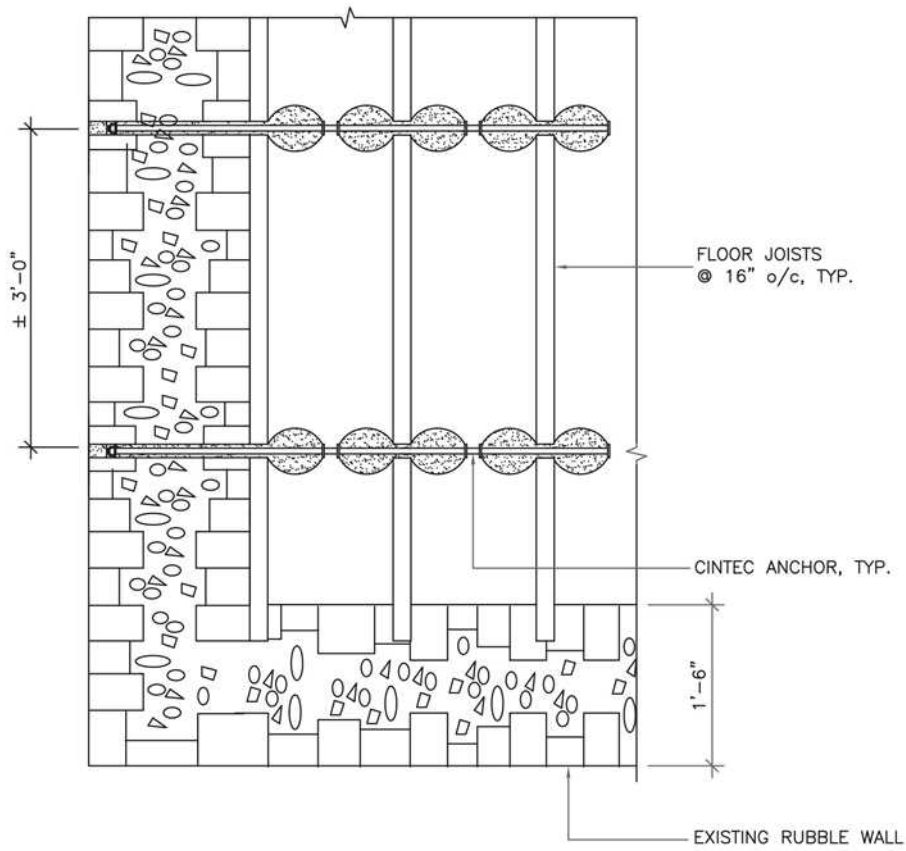
Drawing Title:

CEILING SUPPORTS



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PROJECT DATA:
 LOCATION: GENERIC
 SUBSTRATE: STONE WOOD
 ANCHOR TYPE: SRT WOOD
 JOIST TIE
 PRINCIPAL LOAD (FORCES) :
 TENSION



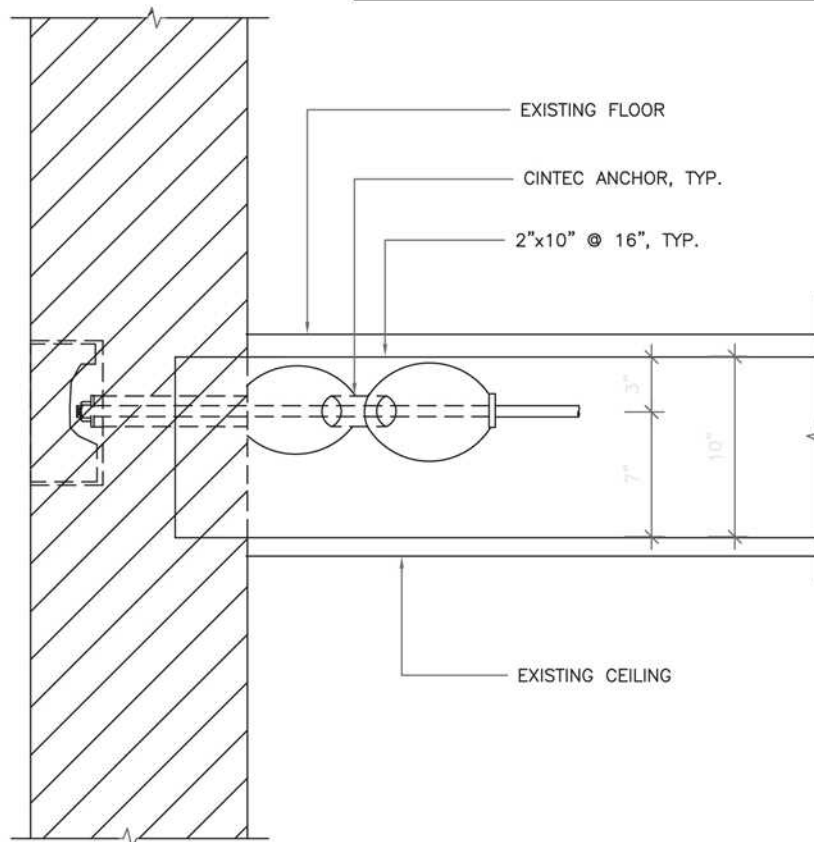
FLOOR JOIST PARTIAL PLAN

	<p>Engineered Grout Injection Anchors by: Cintec Reinforcement Systems Tel: 1-410-761-0765 1-613-225-3381 Fax: 1-613-224-9042 E-mail: solutions@cintec.com</p>	<p>Drawing Title: CINTEC M10 (3/8") STAINLESS STEEL ANCHOR</p>
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PROJECT DATA:
LOCATION:GENERIC
SUBSTRATE: STONE WOOD
ANCHOR TYPE: SRT WOOD
JOIST TIE
PRINCIPAL LOAD (FORCES) :
TENSION



SECTION



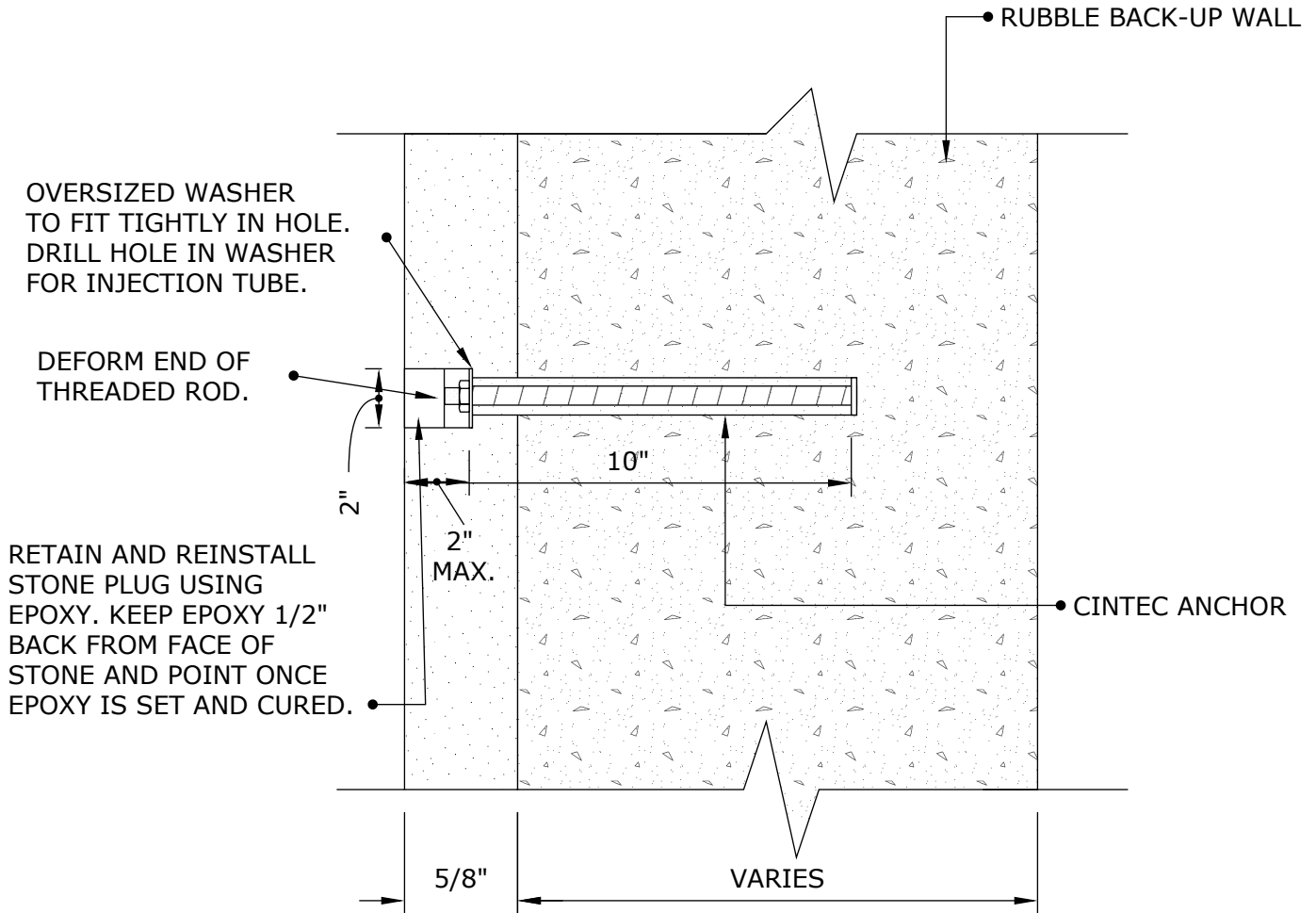
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1-613-225-3381
Fax: 1-613-224-9042
E-mail: solutions@cintec.com

Drawing Title:

**CINTEC M10 (3/8")
STAINLESS STEEL
ANCHOR**



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NOTES:

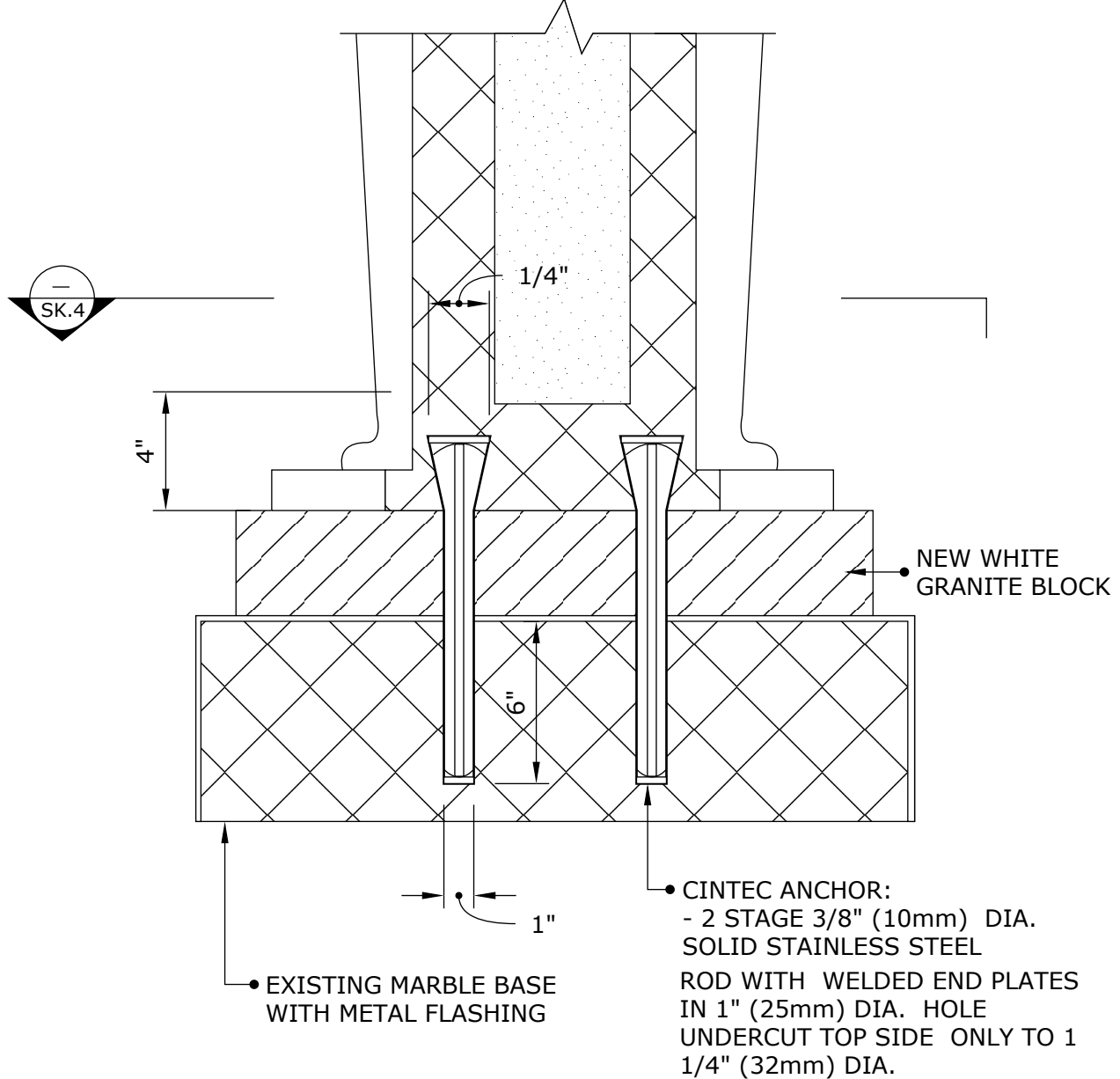
1. CLIENT TO CHECK TOTAL ANCHOR LENGTH PRIOR TO ORDERING.

	<p>Engineered Grout Injection Anchors by: Cintec Reinforcement Systems Tel: 1-410-761-0765 1-613-225-3381 Fax: 1-613-224-9042 E-mail: solutions@cintec.com</p>	<p>Drawing Title: WALL TIE ANCHOR BRICK STABILIZATION</p>
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CINTEC 2 STAGE M10 (3/8") STAINLESS STEEL ANCHOR



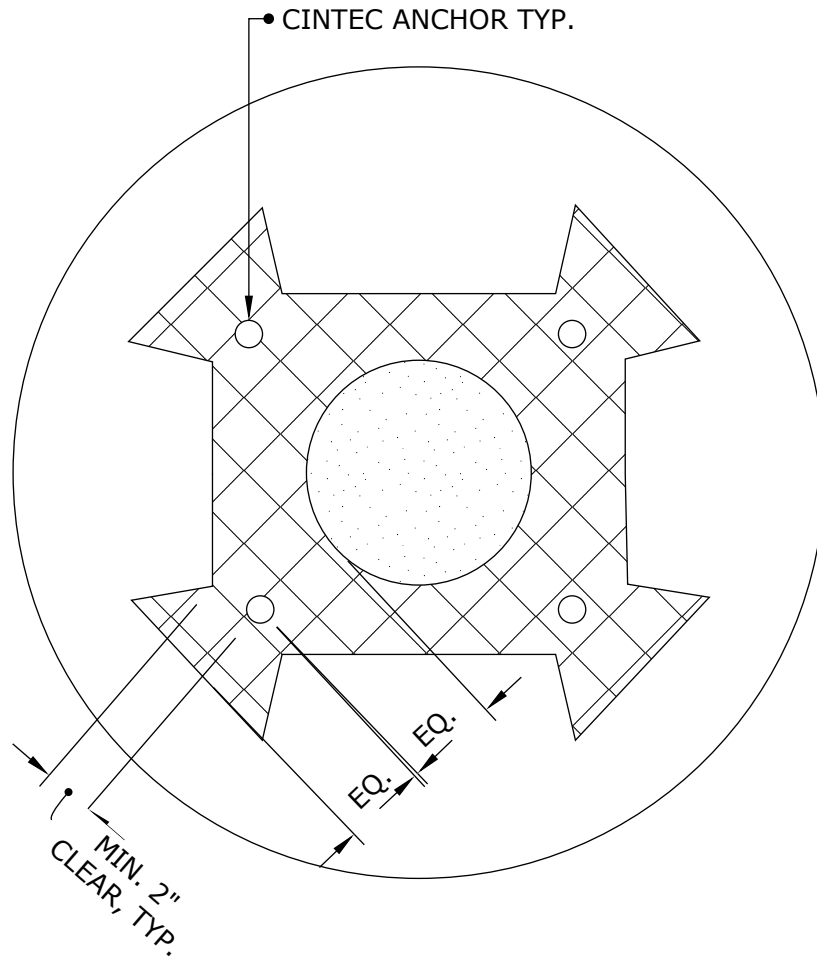
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Cintec Reinforcement Systems
 Tel: 1-410-761-0765
 1-613-225-3381
 Fax: 1-613-224-9042
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Drawing Title:

SECTION THROUGH MARBLE URNS



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Drawing Title:

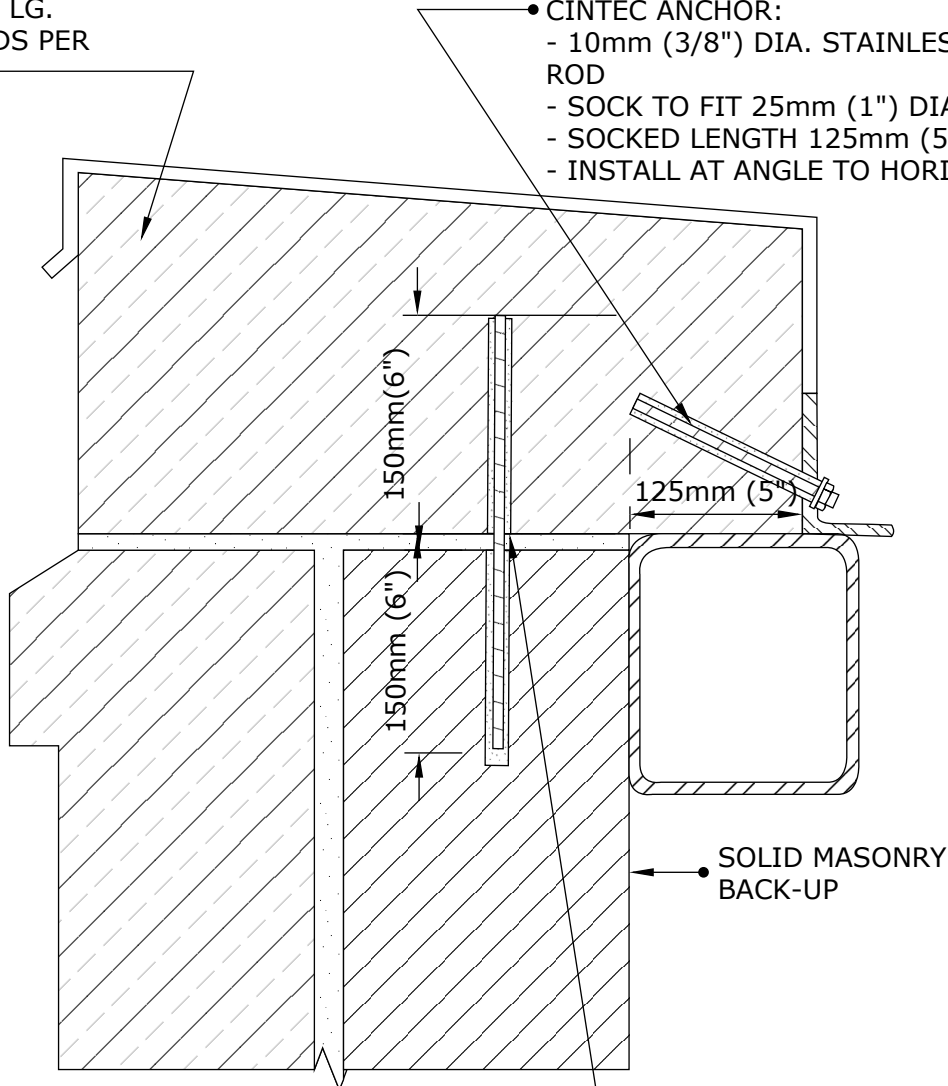
**SECTION THROUGH
MARBLE URNS PLAN**



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COPING STONE
12"x18"x5' LG.
MIN. 2 RODS PER
STONE

• CINTEC ANCHOR:
- 10mm (3/8") DIA. STAINLESS STEEL ROD
- SOCK TO FIT 25mm (1") DIA. HOLE
- SOCKED LENGTH 125mm (5")
- INSTALL AT ANGLE TO HORIZONTAL



CINTEC 2-STAGE ANCHOR:
- 16mm (5/8") DIA. STAINLESS STEEL
THREADED ROD
- SOCK TO FIT 40mm (1 1/2") DIA. HOLE
- TOTAL SOCKED LENGTH 300mm (12")

• SOLID MASONRY
BACK-UP



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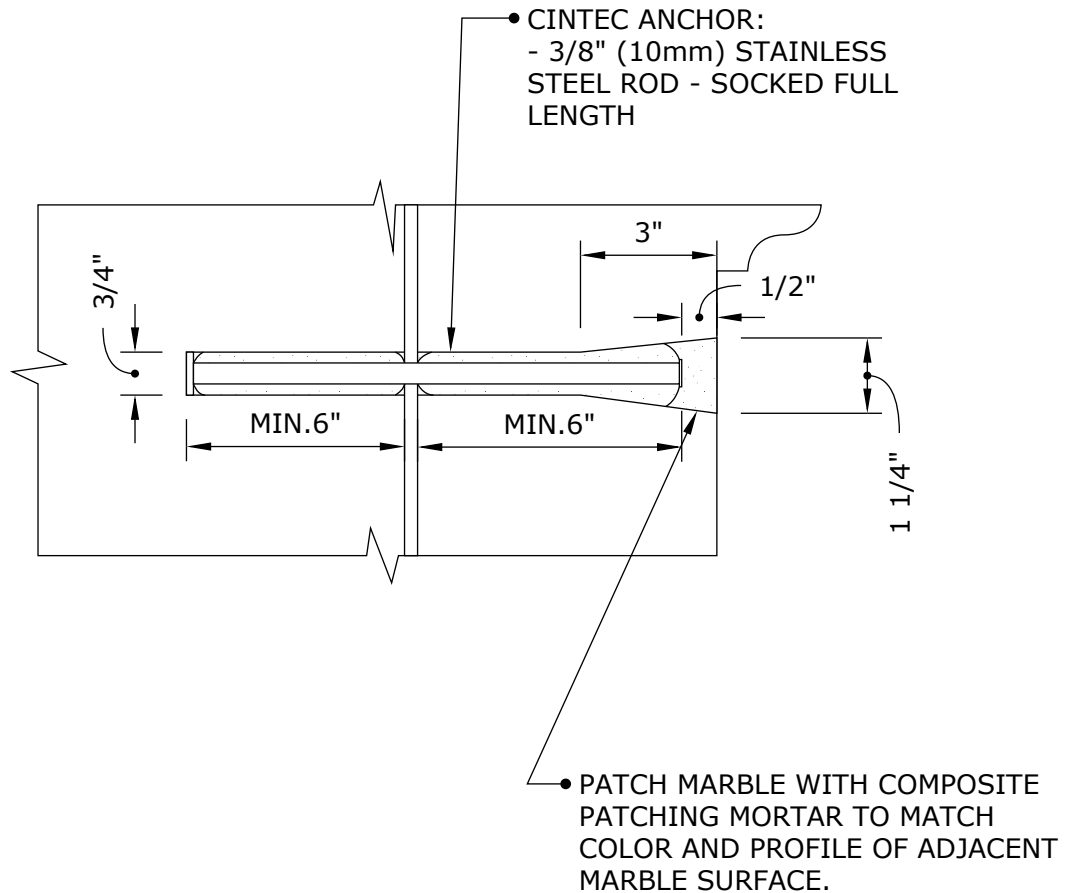
Drawing Title:

**COPING STONE
ANCHORS**



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CINTEC M10 (3/8") STAINLESS STEEL ANCHOR



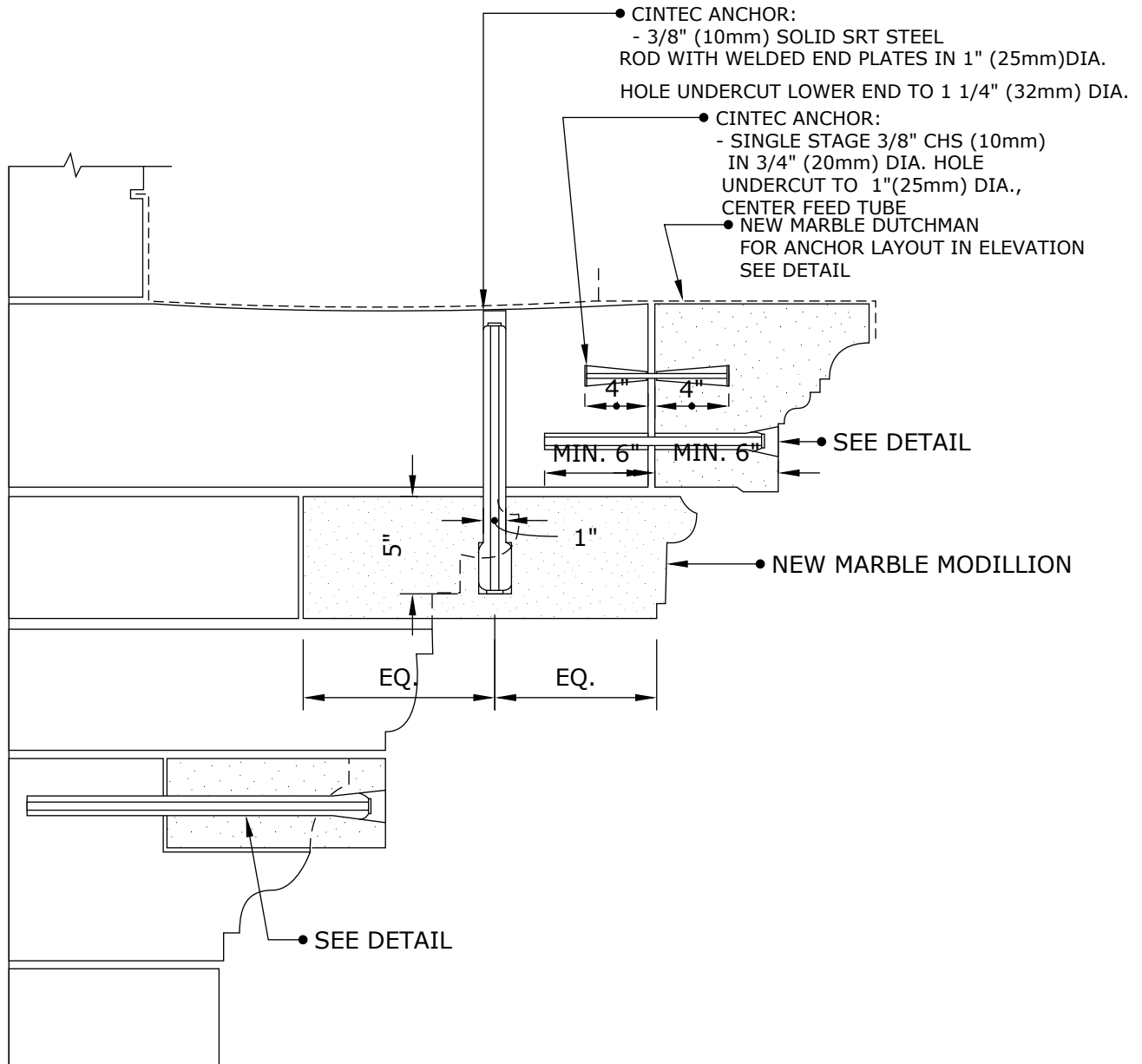
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Drawing Title:

**TYPICAL RECESSED
CINTEC ANCHOR DETAIL**



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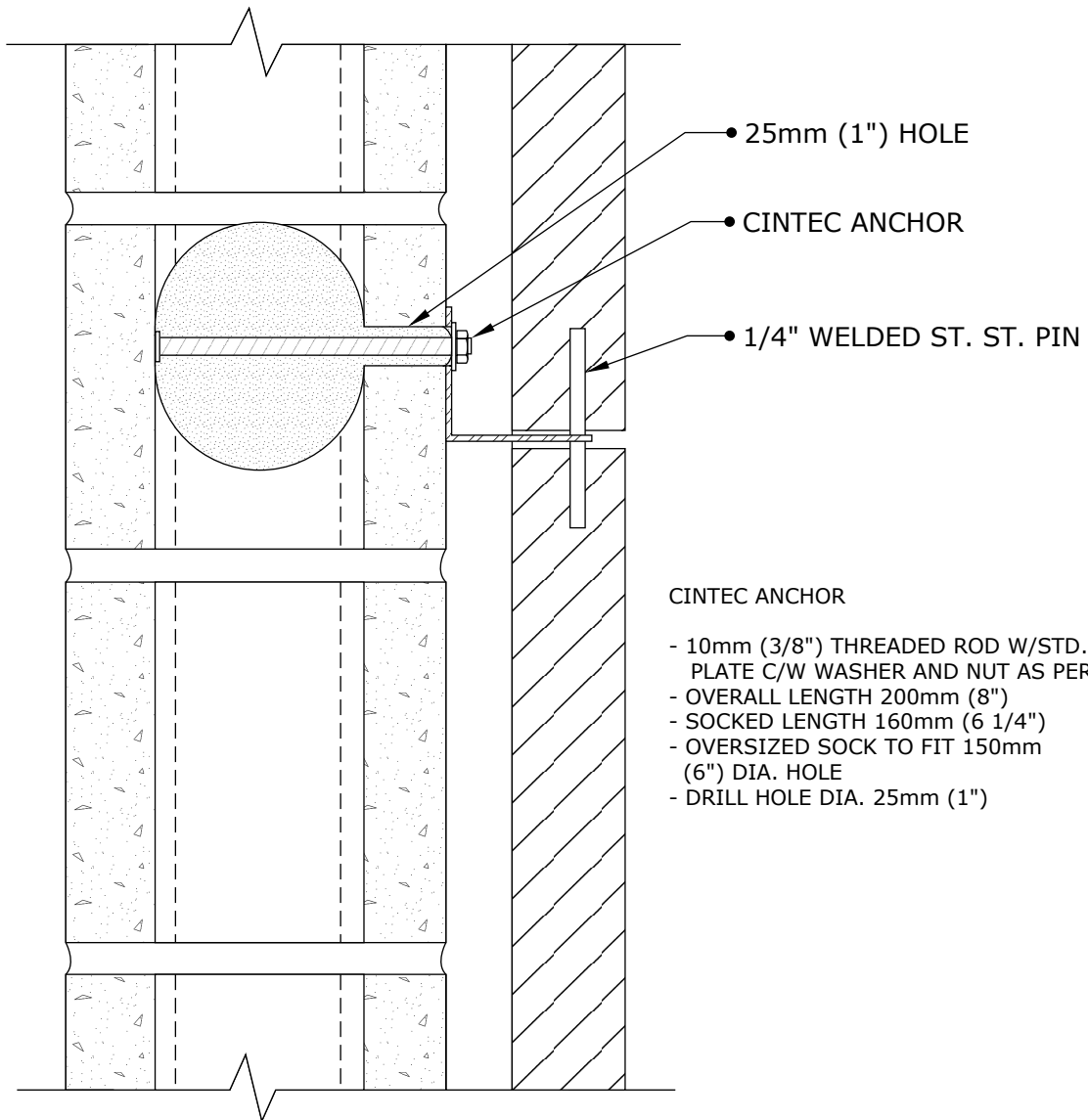
Drawing Title:

**CORNICE SECTION
 CINTEC ANCHOR
 LAYOUT**



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CINTEC M10 (3/8") STAINLESS STEEL ANCHOR



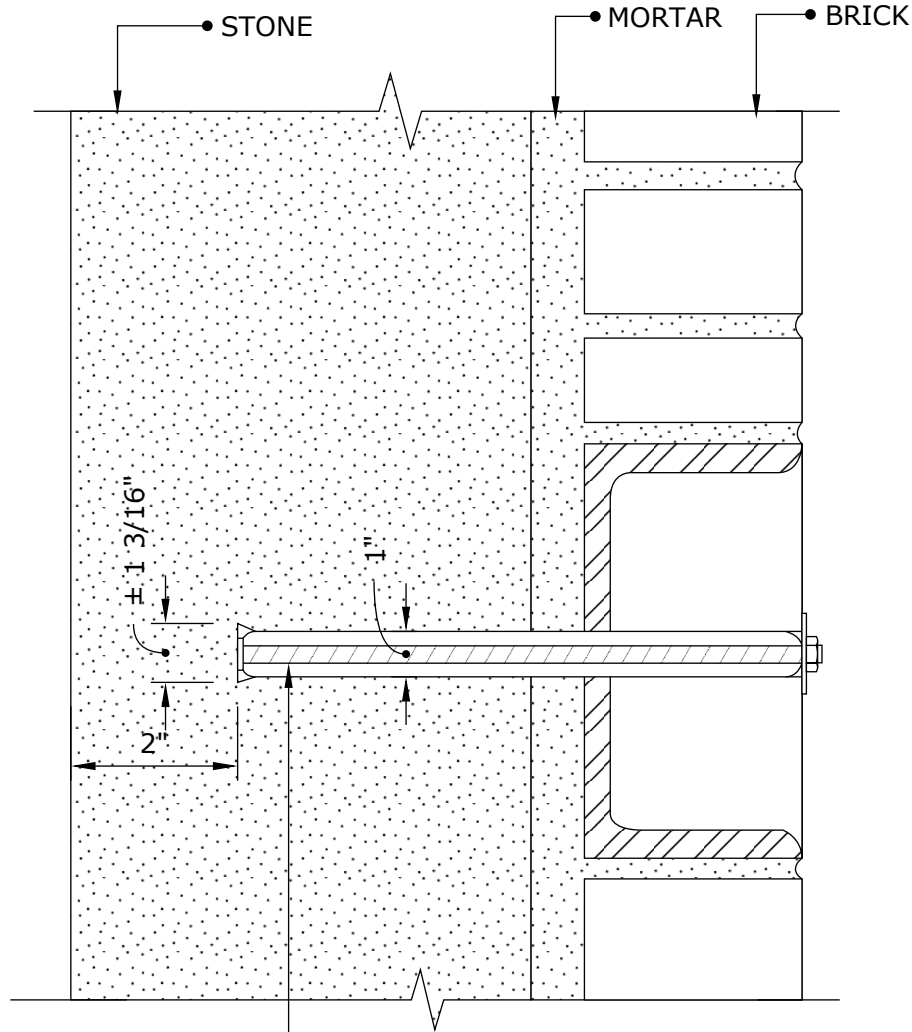
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1-613-225-3381
Fax: 1-613-224-9042
E-mail: solutions@cintec.com

Drawing Title:

**STONE ANCHORING
DETAIL**



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- CINTEC ANCHOR:
 - 3/8" (10mm) STAINLESS STEEL THREADED ROD - 1-3/4" (45mm) FRONT WASHER AND NUT
 - 3/4" (20mm) DIA. BACK PLATE
 - SOCKED FULL LENGTH
 - LENGTH TO BE DETERMINED ON SITE



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 Fax: 1-613-224-9042
 E-mail: solutions@cintec.com

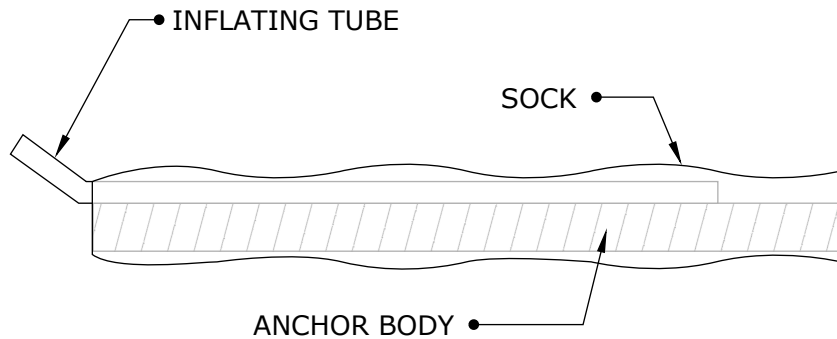
Drawing Title:

CINTEC ANCHOR



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CINTEC M12 (1/2") SRT STAINLESS STEEL ANCHOR FULLY SOCKED



ANCHOR BODY	SOCK	END CONDITION
S/S Grade 304 M12 (1/2") Dia Solid threaded	Full length of Anchor Body 1 1/4" (32mm) Dia	PLAIN ENDS

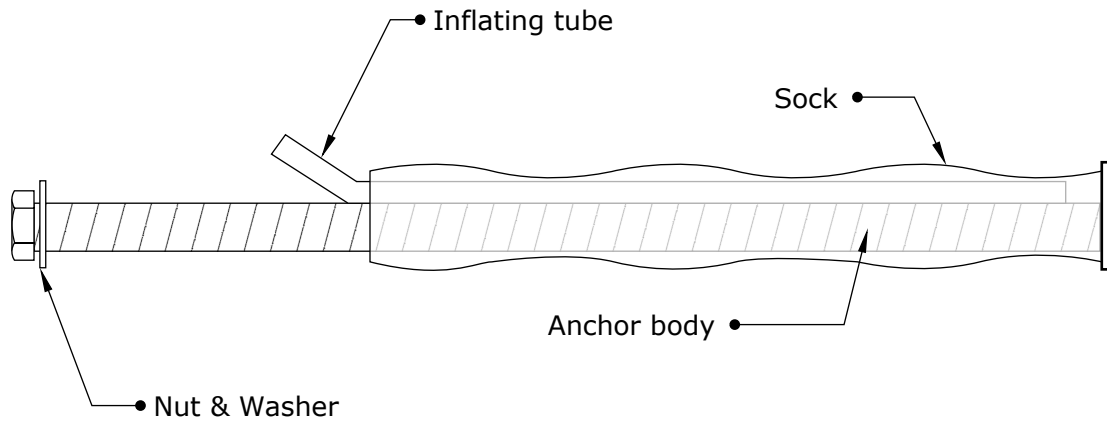
Client to confirm ALL lengths before ordering.

	Engineered Grout Injection Anchors by:	Drawing Title:
	Cintec Reinforcement Systems	
	Tel: 1-410-761-0765	
	1-613-225-3381	
Fax: 1-613-224-9042		CINTEC M12 / 1/2" ANCHOR
E-mail: solutions@cintec.com		



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CINTEC M12 (1/2") SRT STAINLESS STEEL ANCHOR



ANCHOR BODY	SOCK	WASHER
S/S Grade 304 M12 (1/2") Solid threaded rod	Sock length to suit site conditions	SS 304

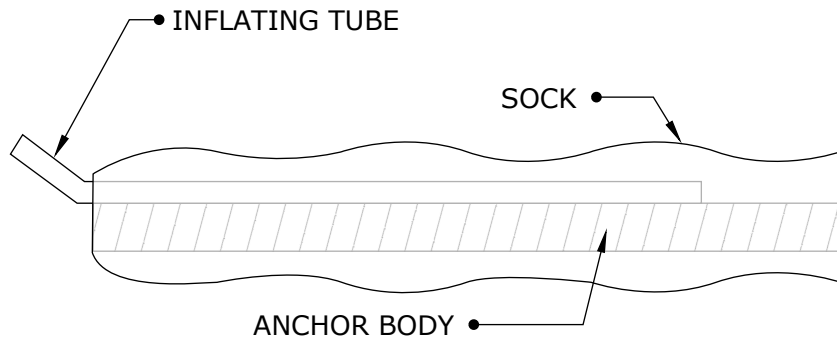
Client to confirm ALL lengths before ordering.

	Engineered Grout Injection Anchors by: Cintec Reinforcement Systems Tel: 1-410-761-0765 1-613-225-3381 Fax: 1-613-224-9042 E-mail: solutions@cintec.com	Drawing Title: CINTEC M12 1/2" STAINLESS STEEL ANCHOR
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CINTEC M12 (1/2") SRT STAINLESS STEEL ANCHOR WITH OVERSIZED SOCK FOR TERRA-COTTA



ANCHOR BODY	SOCK	END CONDITION
S/S Grade 304 M12 (1/2") Dia Solid threaded	Full length of Anchor Body 2" (50mm) Dia Sock	PLAIN ENDS

CLIENT TO CONFIRM ALL ANCHOR LENGTHS BY SITE MEASUREMENTS

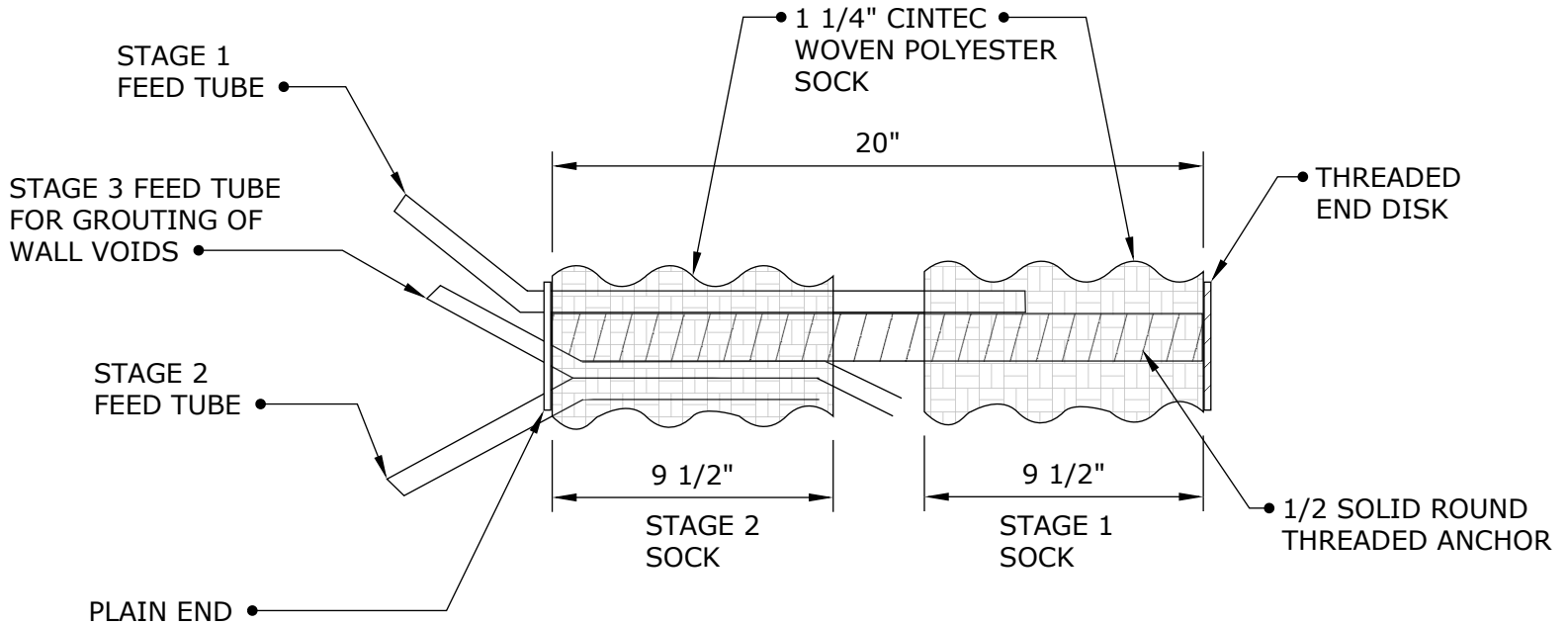
**NB Drill hole size
1 1/4" (32mm)**

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CINTEC 2 STAGE M12 (1/2") STAINLESS STEEL ANCHOR



ALL STAINLESS STEEL - TYPE 304 GROUT
 FEED TUBE 1/2" OD - WALL VOIDS
 FEED TUBE 3/8" ID - SOCK FILL

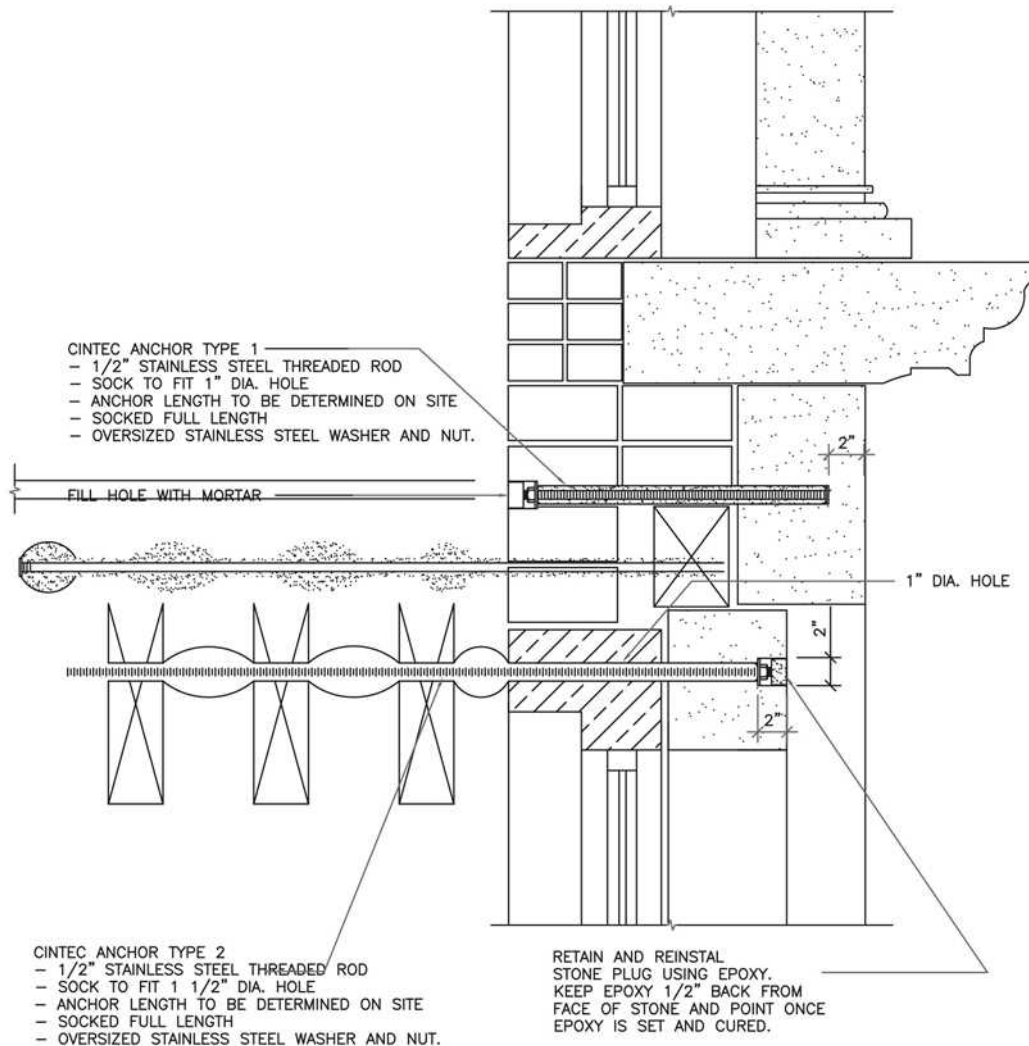
ANCHOR LENGTH TO SUIT SITE CONDITIONS
 Client to confirm ALL lengths before ordering.

	Engineered Grout Injection Anchors by:	Drawing Title:
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	1-613-225-3381	
Fax: 1-613-224-9042		CINTEC M12 1/2"
E-mail: solutions@cintec.com		STAINLESS STEEL ANCHOR



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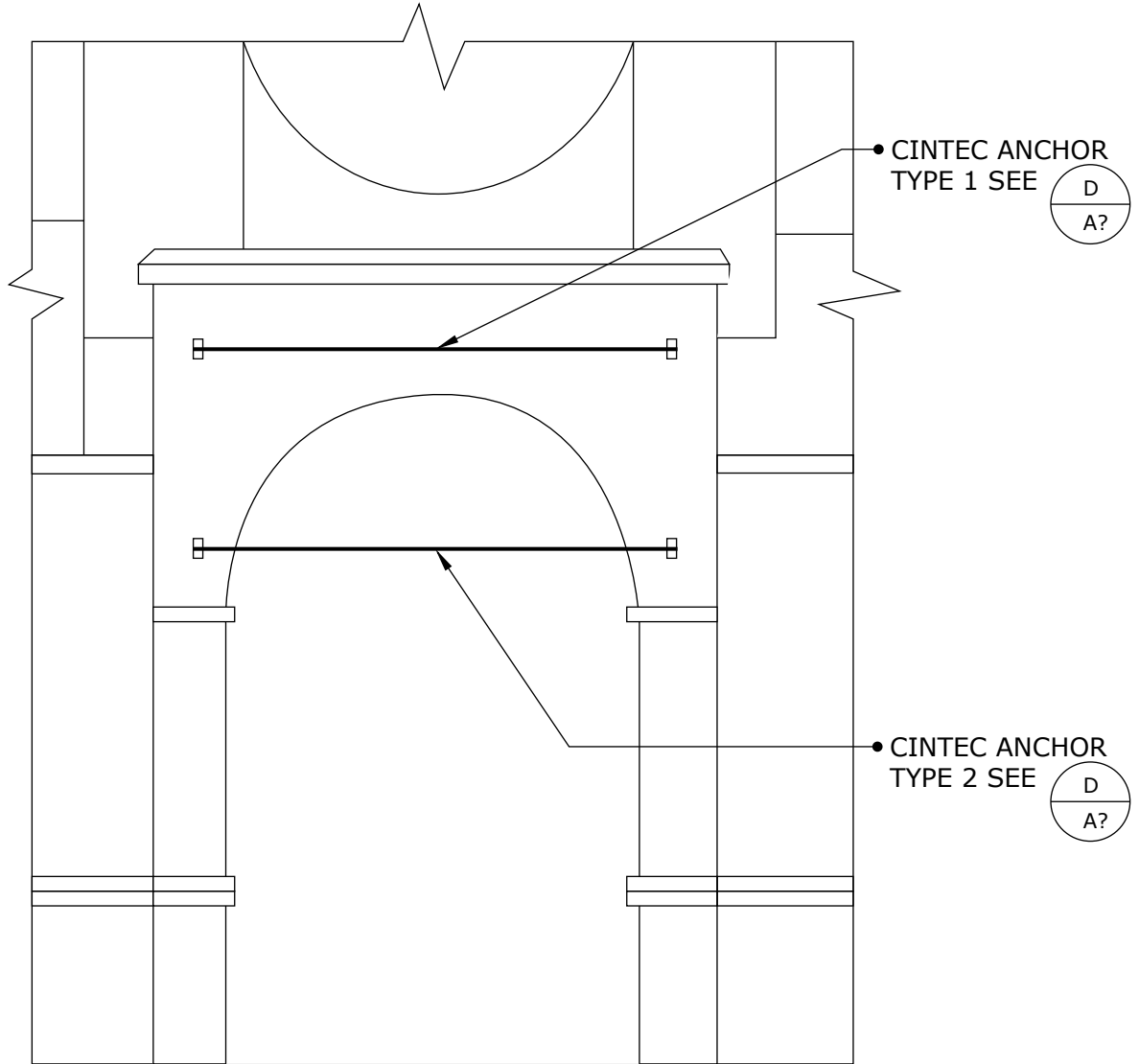
PROJECT DATA:
 LOCATION: GENERIC
 SUBSTRATE: BRICK WOOD
 ANCHOR TYPE: SRT STONE
 PRINCIPAL LOAD (FORCES) :
 COMBINED



	Engineered Grout Injection Anchors by:	Drawing Title:
	Cintec Reinforcement Systems	CINTEC M10 (3/8")
	Tel: 1-410-761-0765	STAINLESS STEEL
	1-613-225-3381	ANCHOR
	Fax: 1-613-224-9042	
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NOTES:

- 1. ANCHOR LENGTHS TO BE DETERMINED IN FIELD PRIOR TO ORDERING.

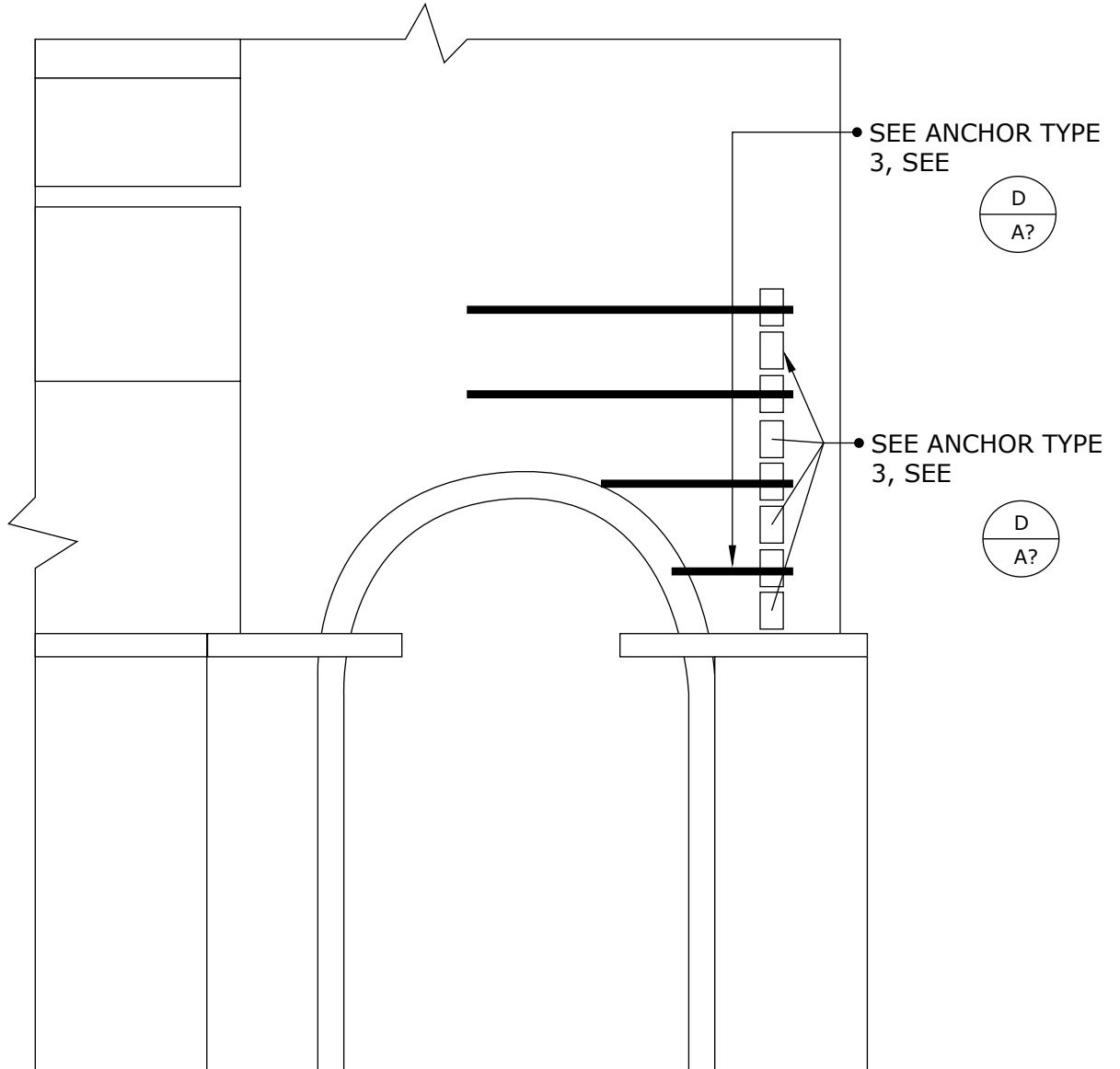


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Fax: 1-613-224-9042
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Drawing Title:
**PARTIAL EAST
ELEVATION**



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NOTES:

1. ANCHOR LENGTHS TO BE DETERMINED IN FIELD PRIOR TO ORDERING.



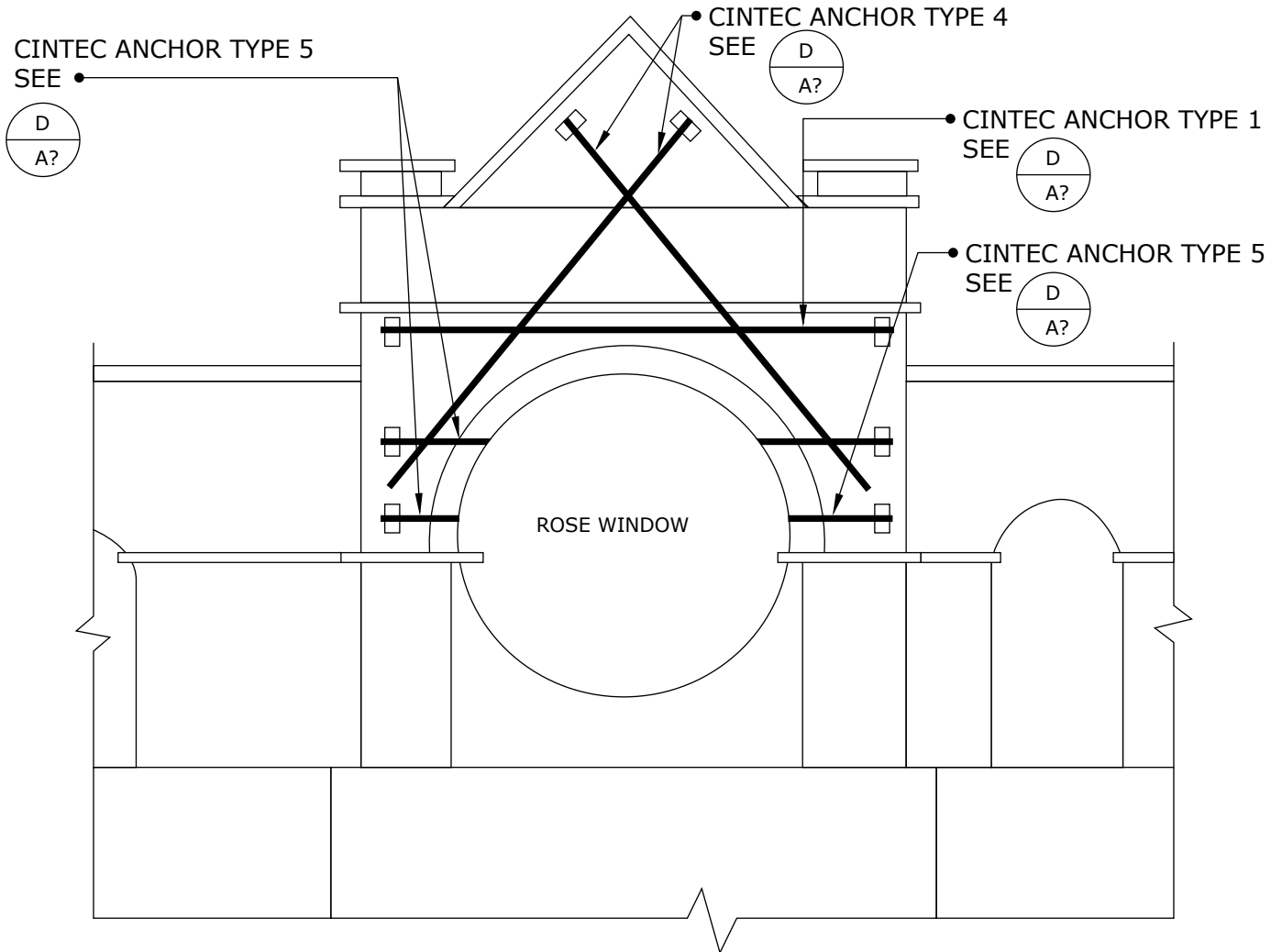
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1-613-225-3381
Fax: 1-613-224-9042
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Drawing Title:

**PARTIAL EAST
ELEVATION**



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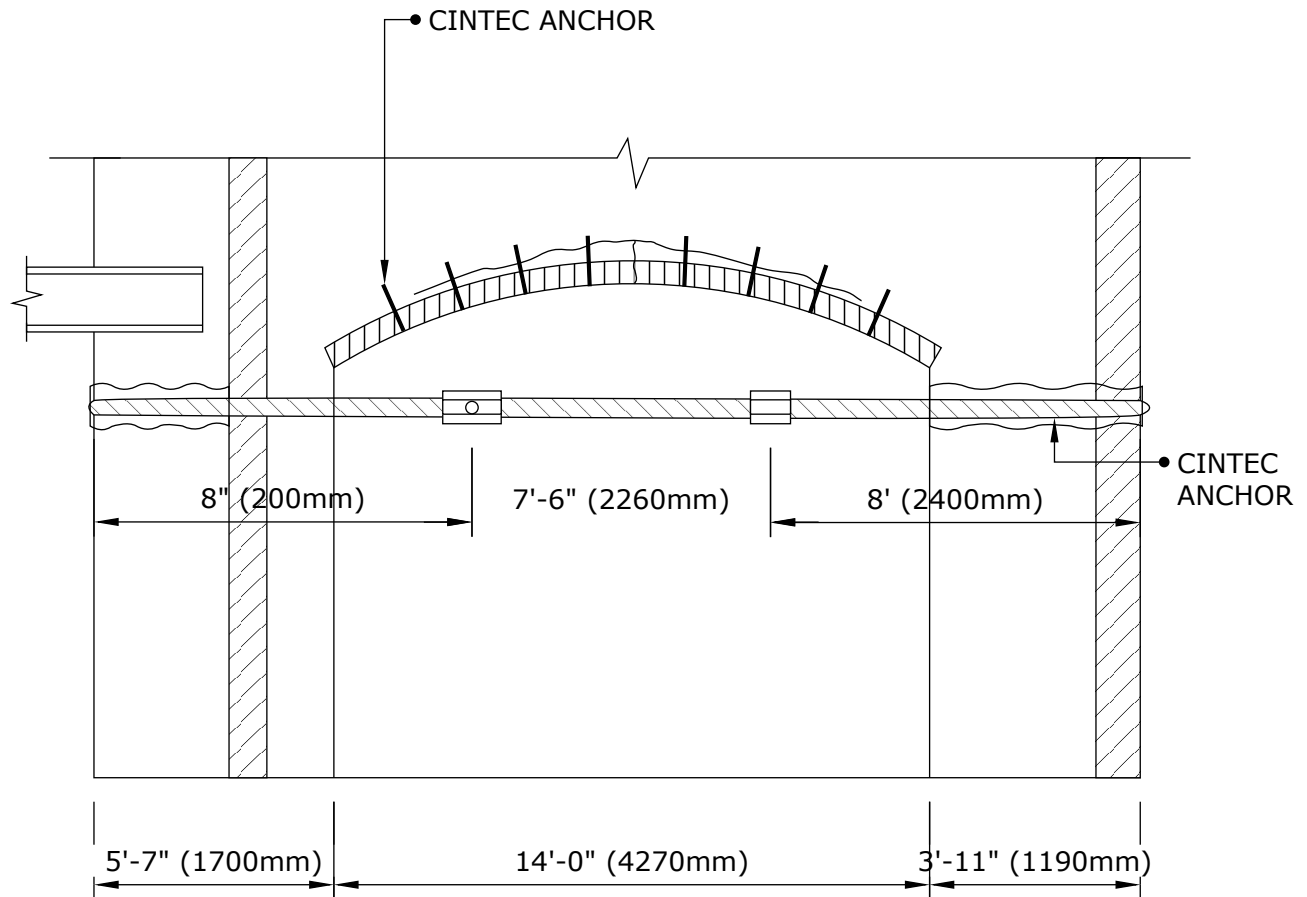
NOTES:

1. ANCHOR LENGTHS TO BE DETERMINED IN FIELD PRIOR TO ORDERING.

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Drawing Title:

ANCHOR LAYOUT

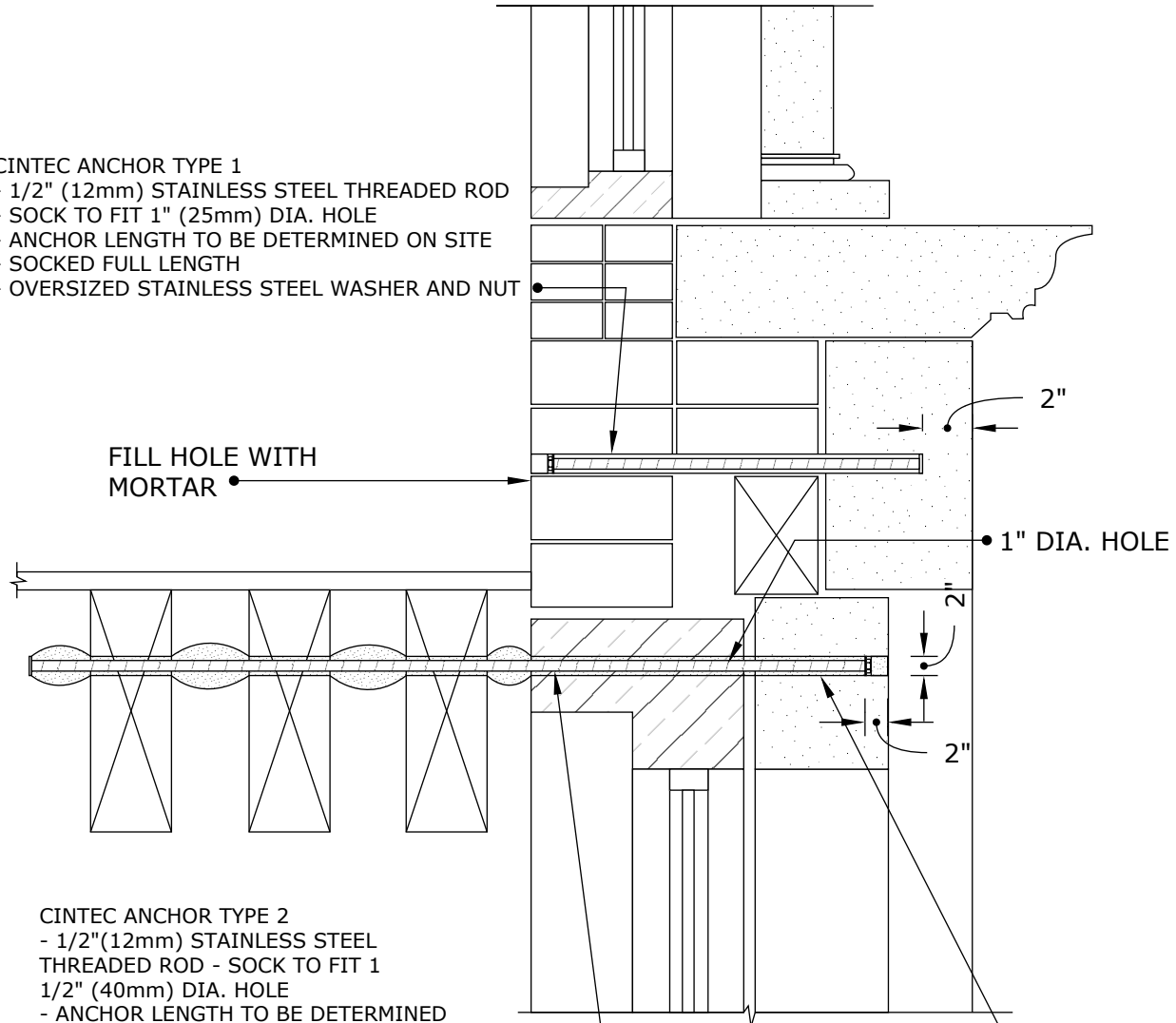


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CINTEC M12 (1/2") STAINLESS STEEL ANCHOR

CINTEC ANCHOR TYPE 1

- 1/2" (12mm) STAINLESS STEEL THREADED ROD
- SOCK TO FIT 1" (25mm) DIA. HOLE
- ANCHOR LENGTH TO BE DETERMINED ON SITE
- SOCKED FULL LENGTH
- OVERSIZED STAINLESS STEEL WASHER AND NUT



FILL HOLE WITH MORTAR

CINTEC ANCHOR TYPE 2

- 1/2"(12mm) STAINLESS STEEL THREADED ROD - SOCK TO FIT 1 1/2" (40mm) DIA. HOLE
- ANCHOR LENGTH TO BE DETERMINED ON SITE
- SOCKED FULL LENGTH
- OVERSIZED STAINLESS STEEL WASHER AND NUT

RETAIN AND REINSTALL STONE PLUG USING EPOXY. KEEP EPOXY 1/2" BACK FROM FACE OF STONE AND POINT ONCE EPOXY IS SET AND CURED.



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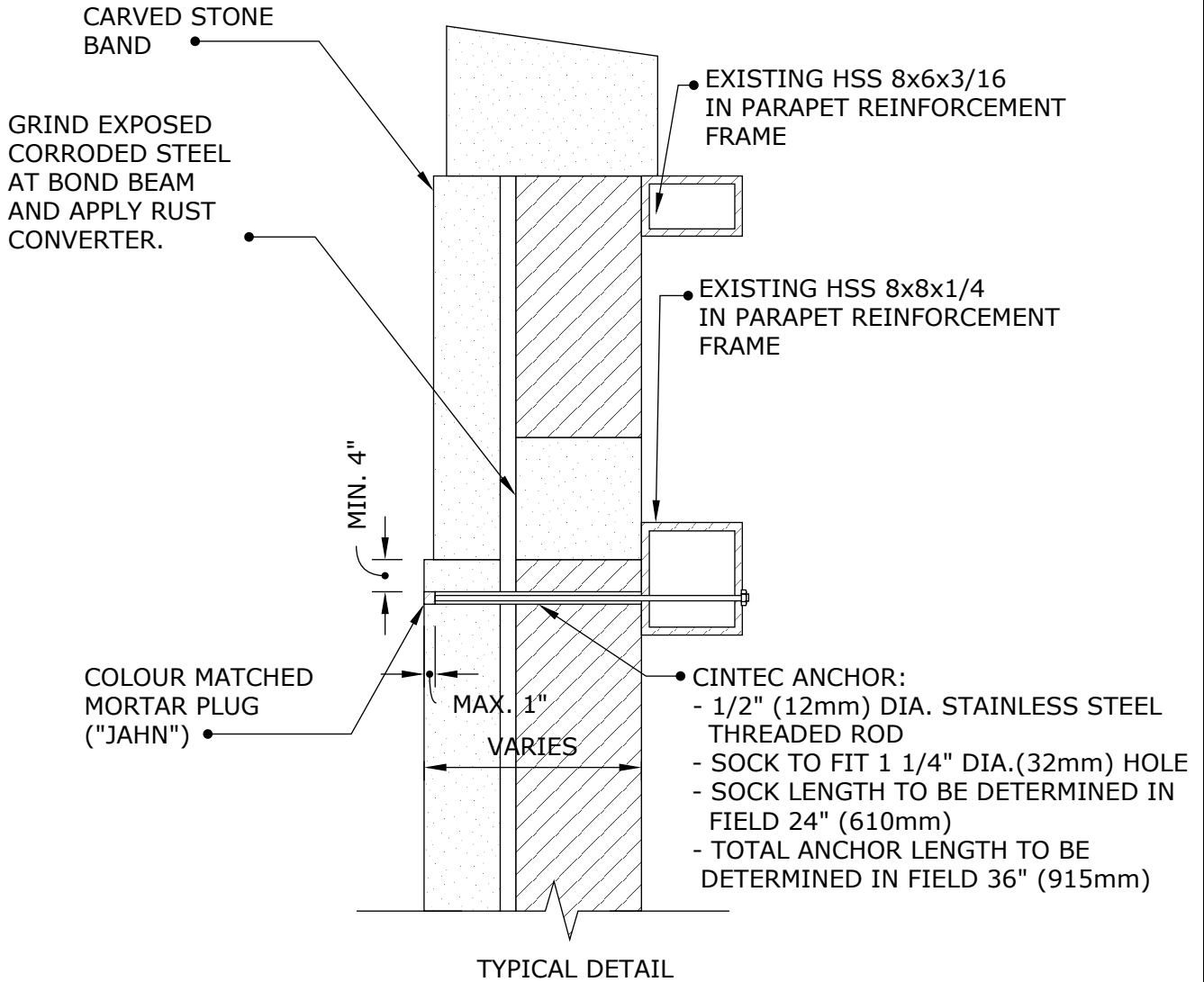
Drawing Title:

**CINTEC ANCHORS
 STONE STABILIZATION**



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CINTEC M12 (1/2") STAINLESS STEEL ANCHOR



- NOTES:
1. ALL ANCHOR DIMENSIONS TO BE DETERMINED IN THE FIELD.
 2. INSTALL A MINIMUM OF TWO (2) ANCHORS PER STONE



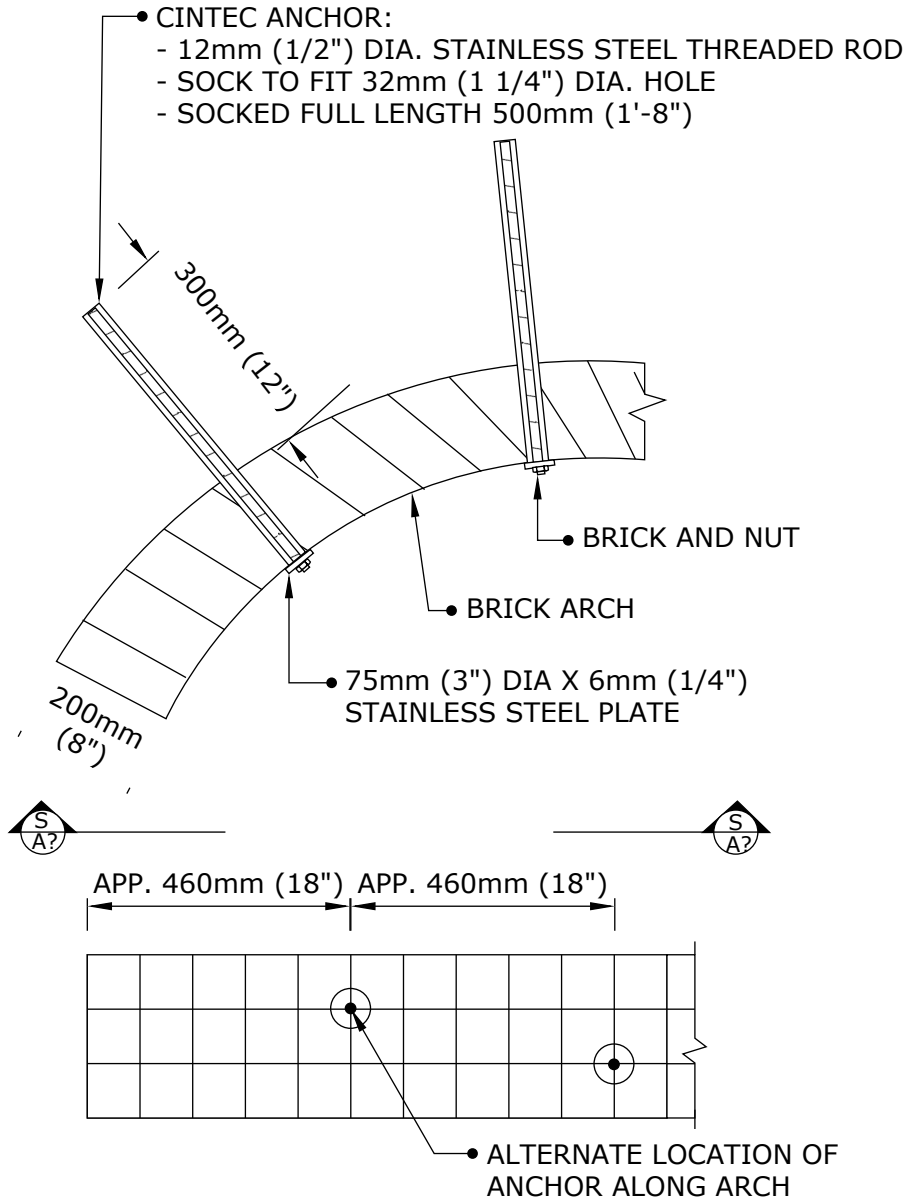
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Drawing Title:

**STONE CLADDING
 SUPPORT ANCHORS**



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SECTION 1-1



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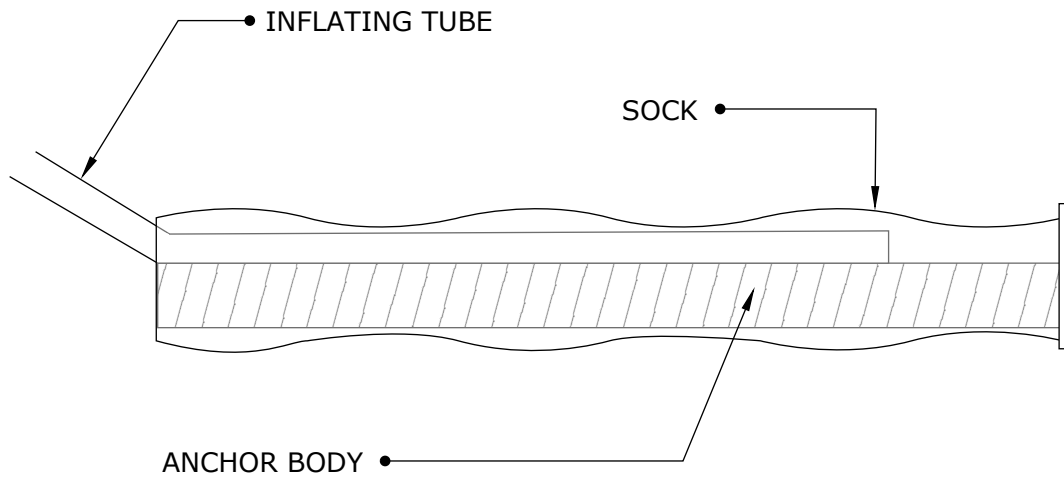
Drawing Title:

ARCH ANCHORS



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CINTEC M16 (5/8") SRT STAINLESS STEEL ANCHOR FULLY SOCKED



ANCHOR BODY	SOCK	END CONDITION
SS TYPE 304 M16 (5/8") SOLID ROUND THREADED ROD	FULL LENGTH OF ANCHOR BODY DIA 1 1/2" (40mm)	PLAIN ENDS

ANCHOR LENGTH TO SUIT SITE CONDITIONS
Client to confirm ALL lengths before ordering.



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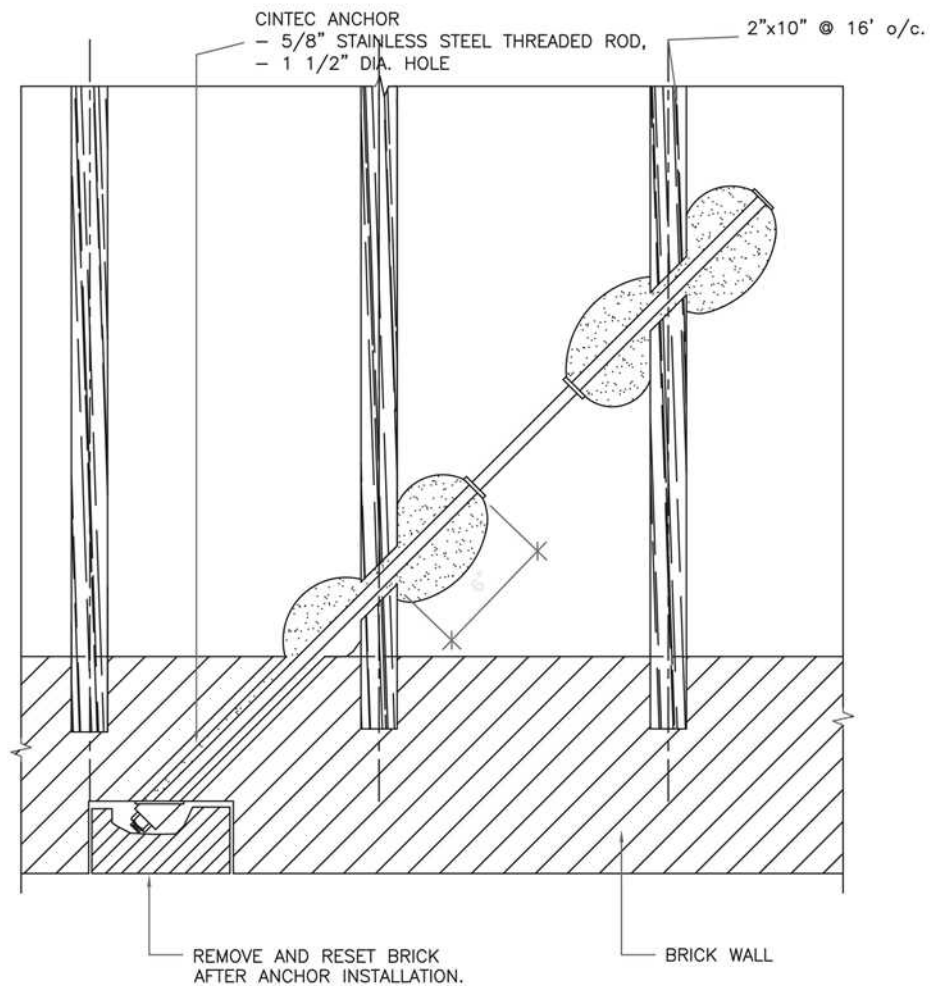
Drawing Title:

CINTEC M16 5/8"
STAINLESS STEEL ANCHOR



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PROJECT DATA:
LOCATION: GENERIC
SUBSTRATE: STONE WOOD
ANCHOR TYPE: SRT WOOD
JOIST TIE
PRINCIPAL LOAD (FORCES) :
TENSION



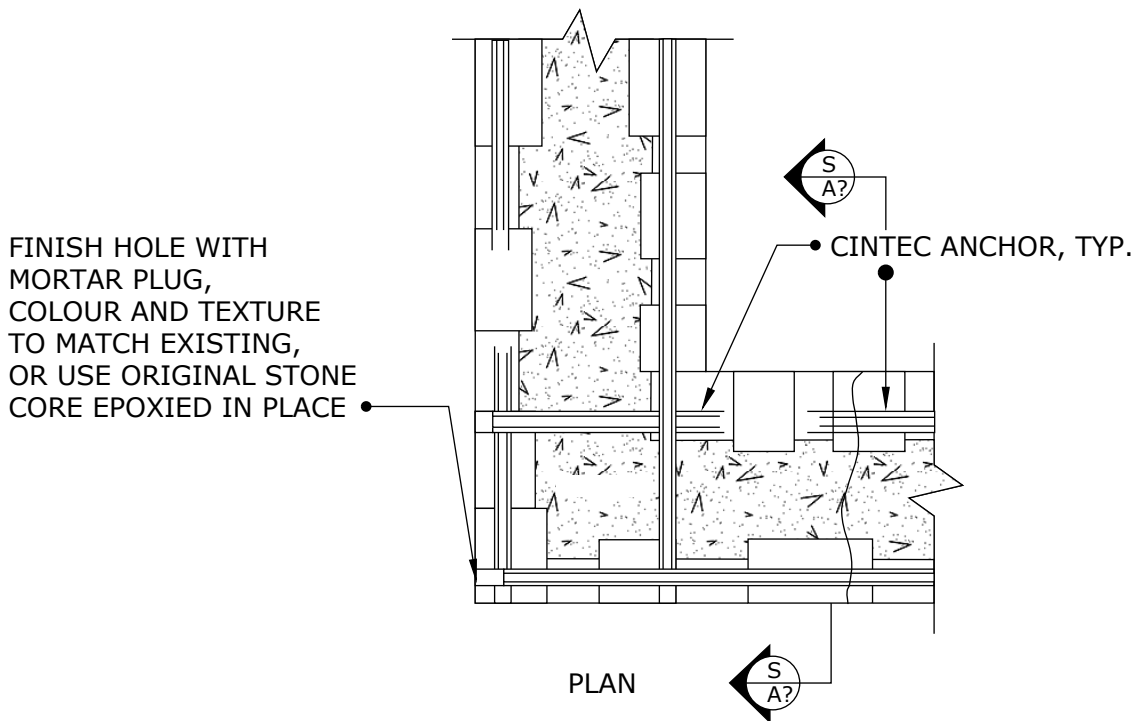
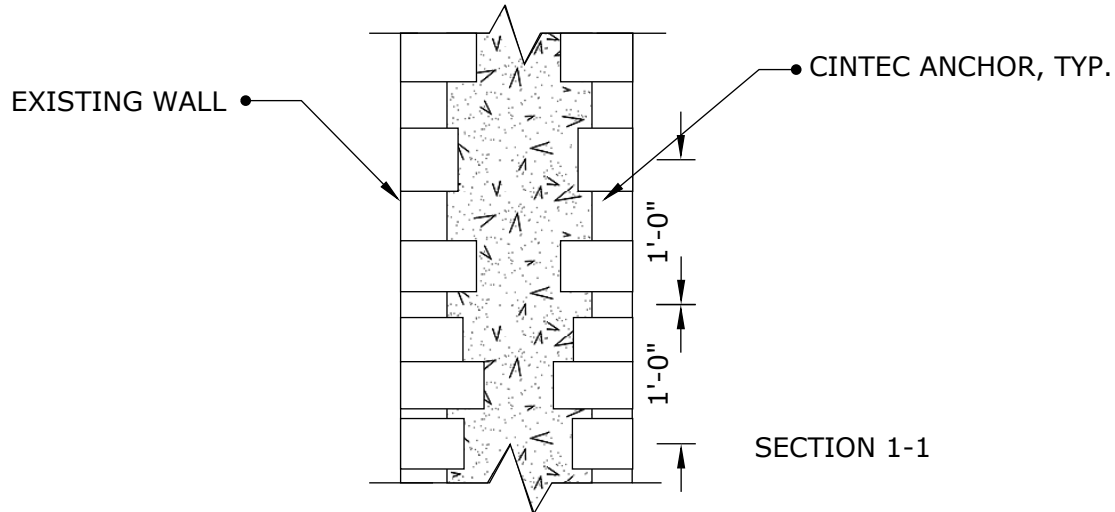
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Drawing Title:

**CINTEC M16 (5/8")
STAINLESS STEEL
ANCHOR**



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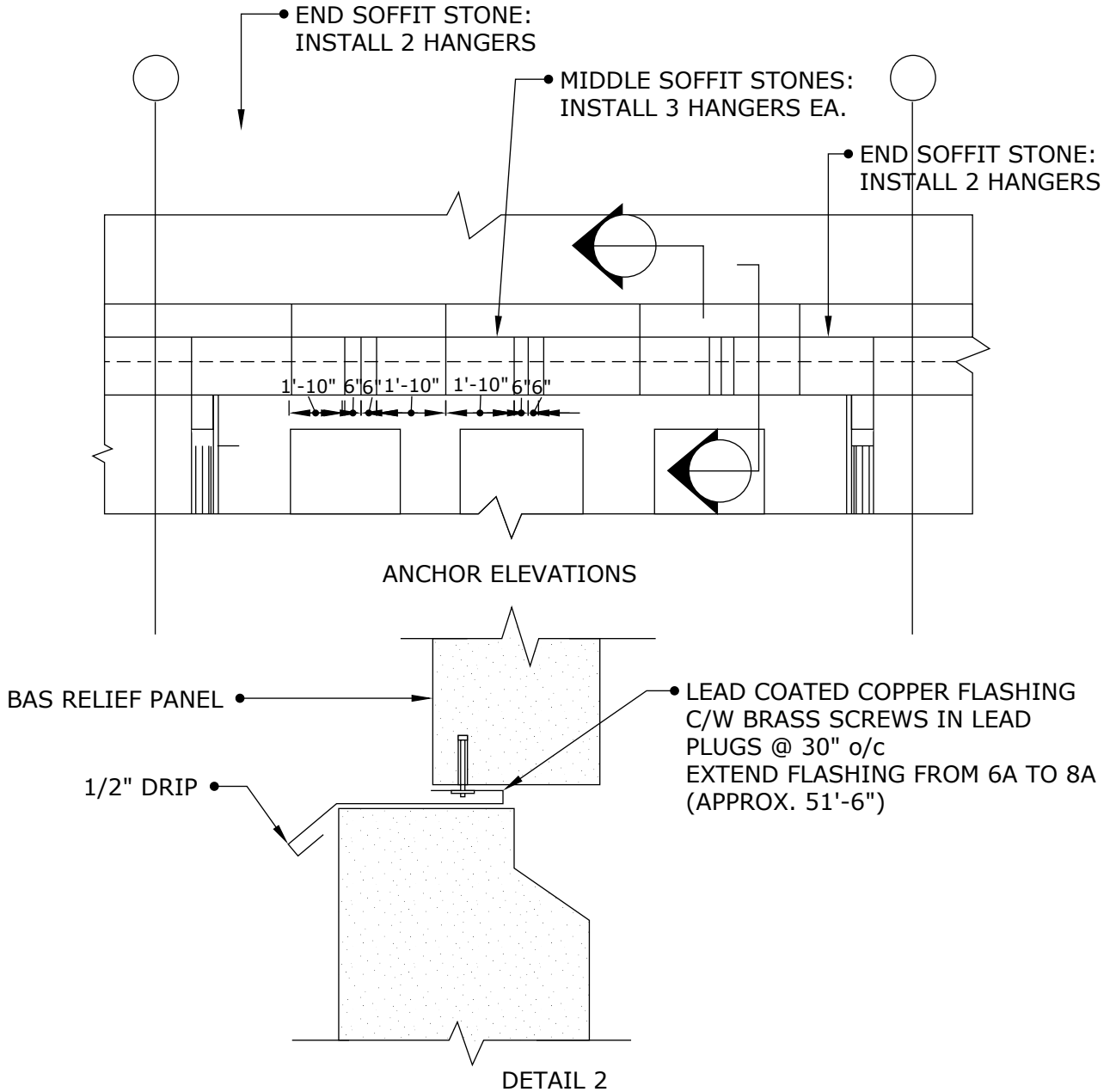
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Drawing Title:

CORNER STITCHING ANCHOR IN RUBBLE WALL



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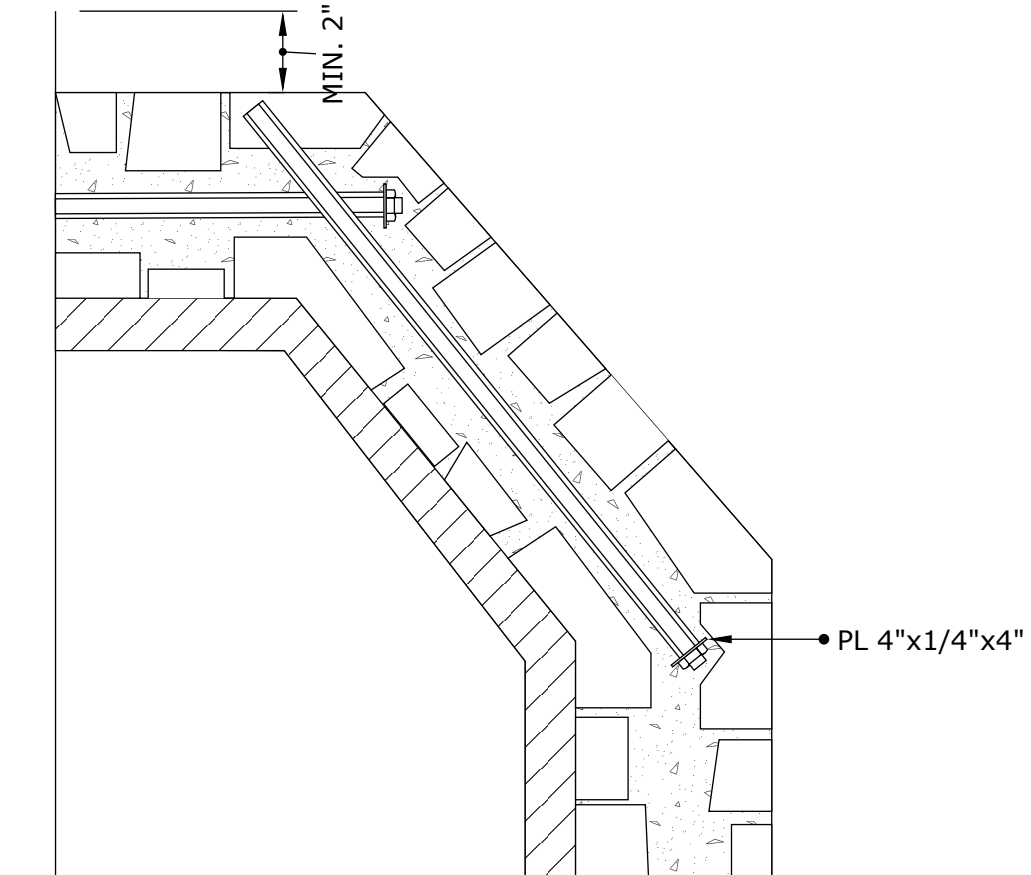
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Drawing Title:

ANCHOR LOCATIONS



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NOTES:

- REMOVE CAREFULLY OUTSIDE STONES AT ANCHOR LOCATION AND DRILL HOLE THROUGH THE WALL
- MAKE RECESS (COUNTER SINK) IN BRICK BACKUP (RUBBLE CORE) FOR STAINLESS STEEL PLATE, WASHER AND NUT IN ORDER TO MINIMIZE STONE CUTTING
- CUT OUT BACK OF STONE IF NECESSARY
- INSERT CINTEC ANCHOR AND GROUT IT
- INSTALL STAINLESS STEEL PLATE, WASHER, AND NUT
- GROUT BEHIND THE PLATE WITH NON-SHRINK GROUT
- REINSTALL OUTSIDE STONES



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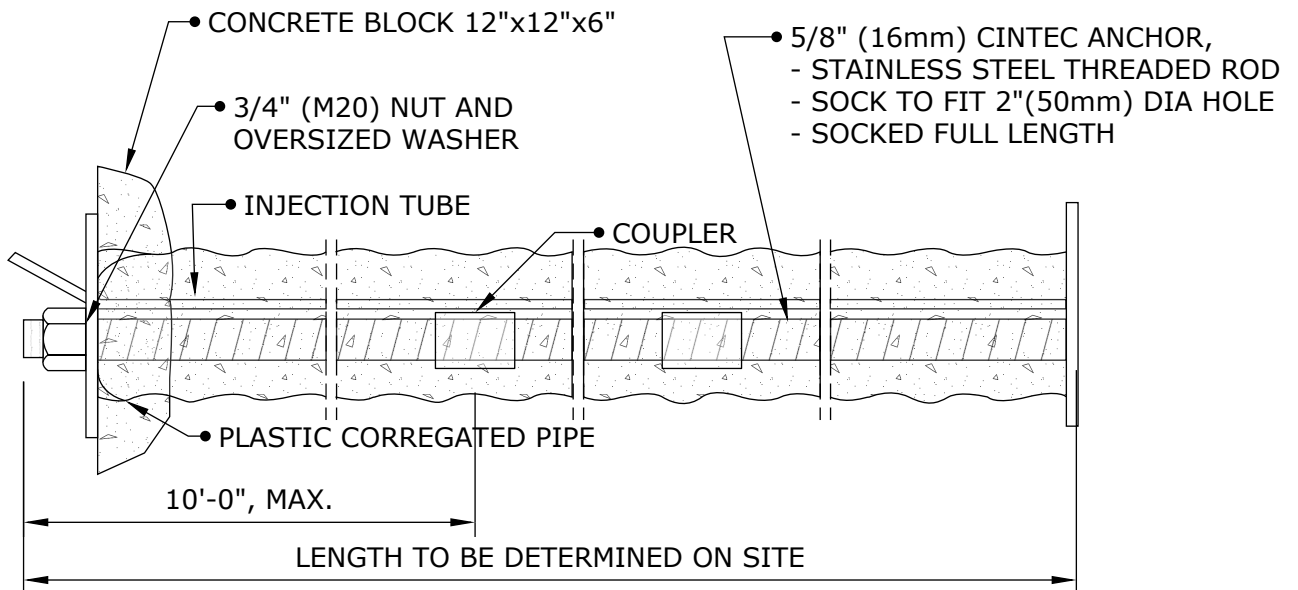
Drawing Title:

**CRACKED TURRET WALL
STITCHING CRACK
CLOSE TO ADJ. WALL**



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CINTEC M16 (5/8") STAINLESS STEEL ANCHOR



NOTE:
ALL STEEL TO BE STAINLESS
S304



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Drawing Title:
CINTEC ANCHOR

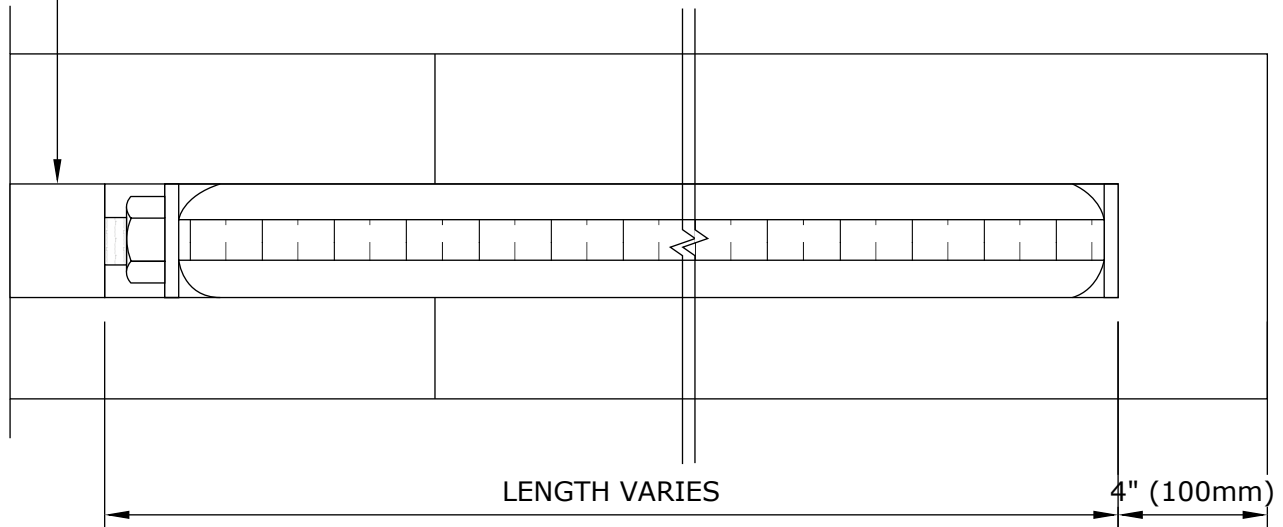


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CINTEC M16 (5/8") STAINLESS STEEL ANCHOR

- RETAIN AND REINSTALL STONE PLUG USING EPOXY. KEEP EPOXY 1/2" BACK FROM FACE OF STONE AND POINT ONCE EPOXY IS SET AND CURED.

- CINTEC ANCHOR
 - 5/8" (16mm) STAINLESS STEEL THREADED ROD
 - SOCK TO FIT 1 1/4" (32mm) DIA HOLE
 - SOCK FULL LENGTH



NOTE:
1. LENGTH OF ANCHORS TO BE DETERMINED ON SITE.

ALL STEEL TO BE STAINLESS S304



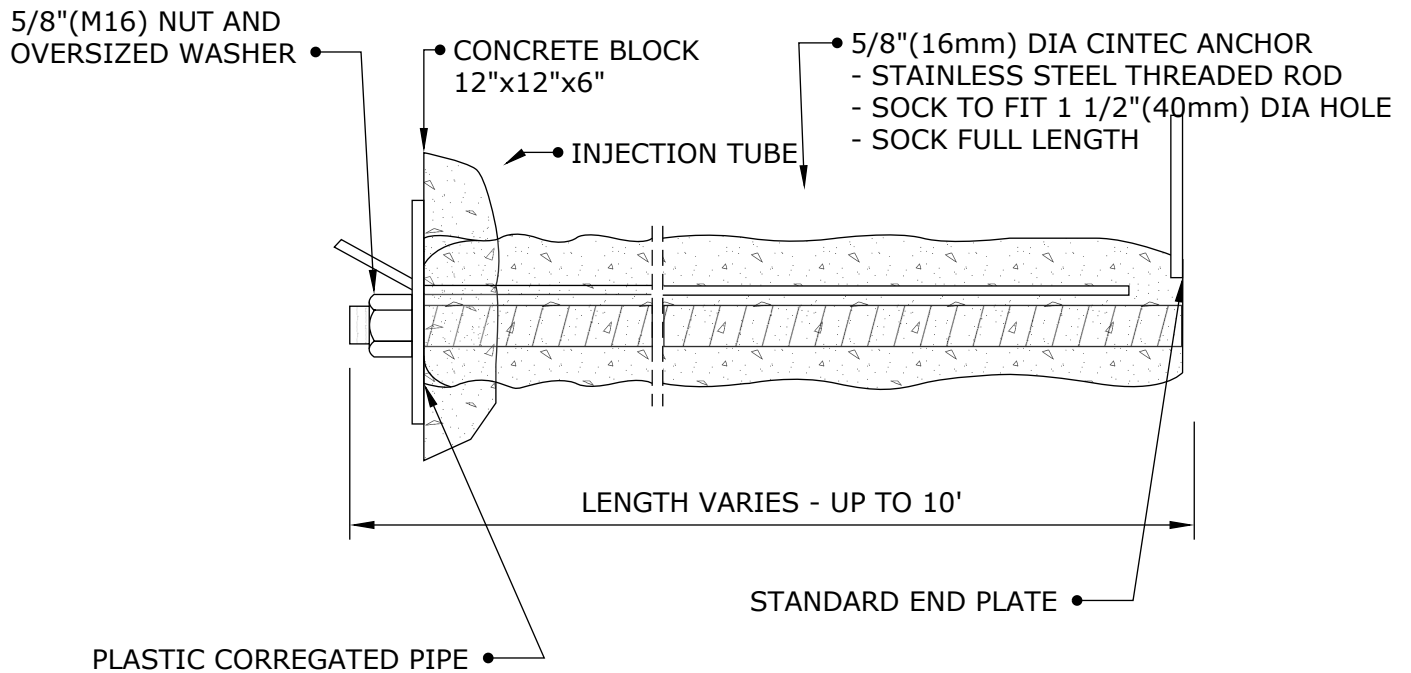
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TYPICAL ANCHOR INSTALLATION



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CINTEC M16 (5/8") STAINLESS STEEL ANCHOR

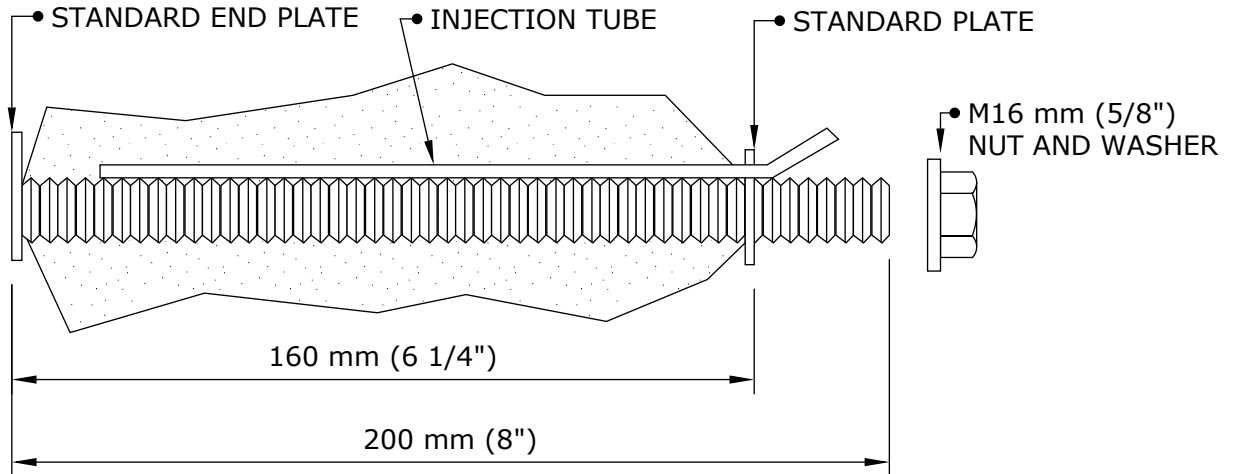


NOTE:
ALL STEEL TO BE STAINLESS S304

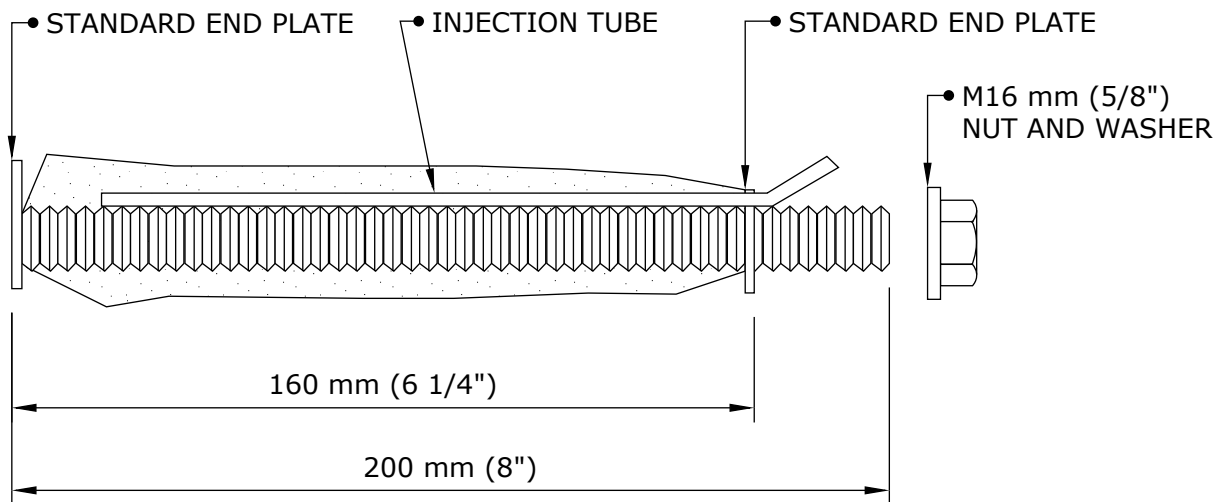
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- DRILL HOLE DIA 50 mm (2")
- SOCK LENGTH 160 mm (6 1/4")
- OVERSIZED SOCK TO FIT 150 mm (6") DIA HOLE



NOTE:
ALL STEEL TO BE STAINLESS
S304

- DRILL HOLE DIA 38 mm (1 1/2")
- SOCK LENGTH 160 mm (6 1/4")
- SOCK TO FIT 38 mm (1 1/2") DIA HOLE



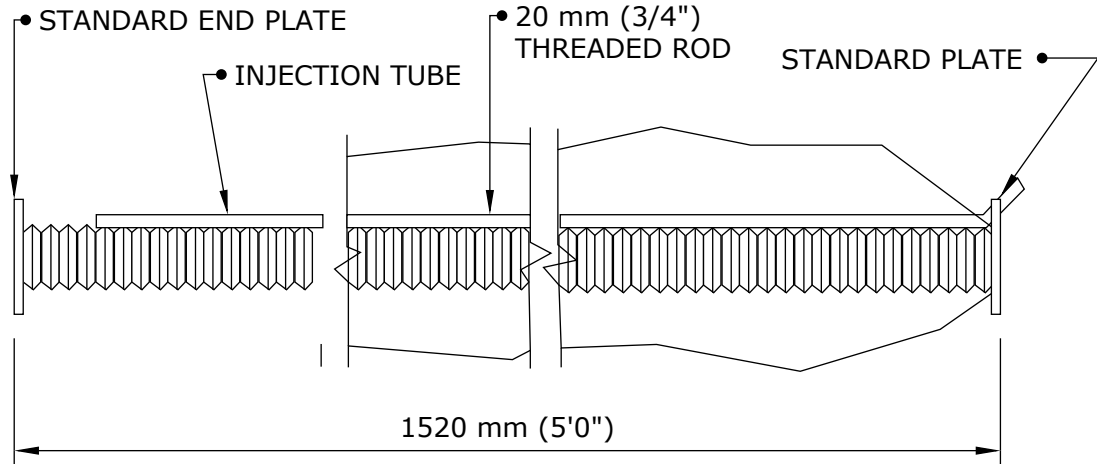
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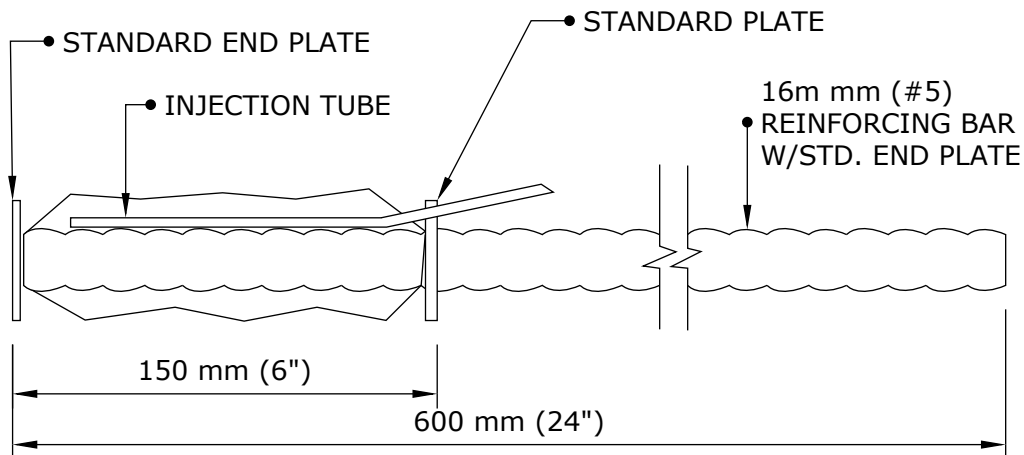
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- OVERSIZED SOCK TO FIT 200 mm (8") DIA HOLE, SOCKED FULL LENGTH



- DRILL HOLE DIA 50 mm (2")
 - OVERSIZED SOCK TO FIT 150 mm (6") DIA HOLE, SOCKED FULL LENGTH 150 mm (6")

NOTE:
 ALL STEEL TO BE STAINLESS S304



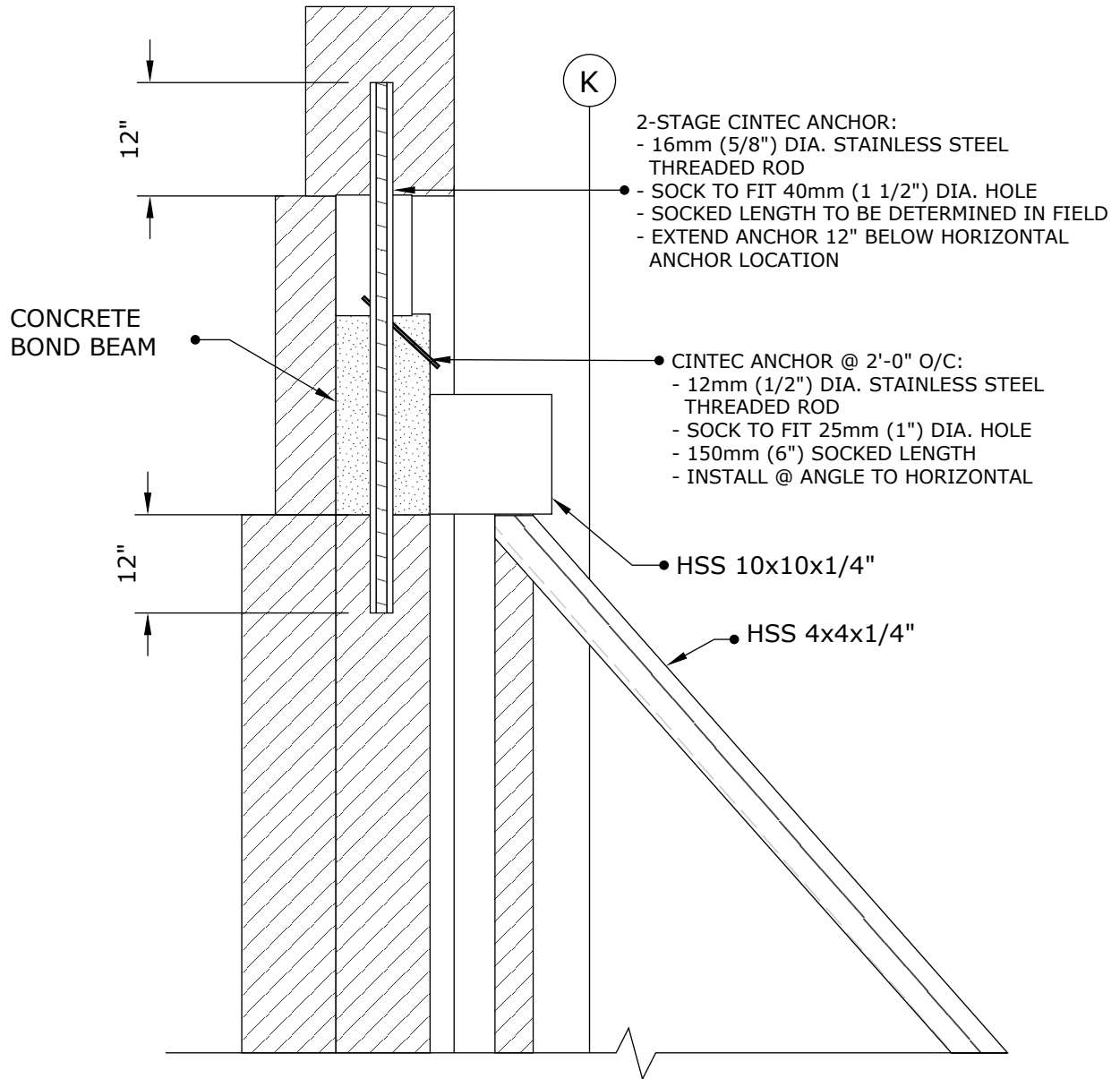
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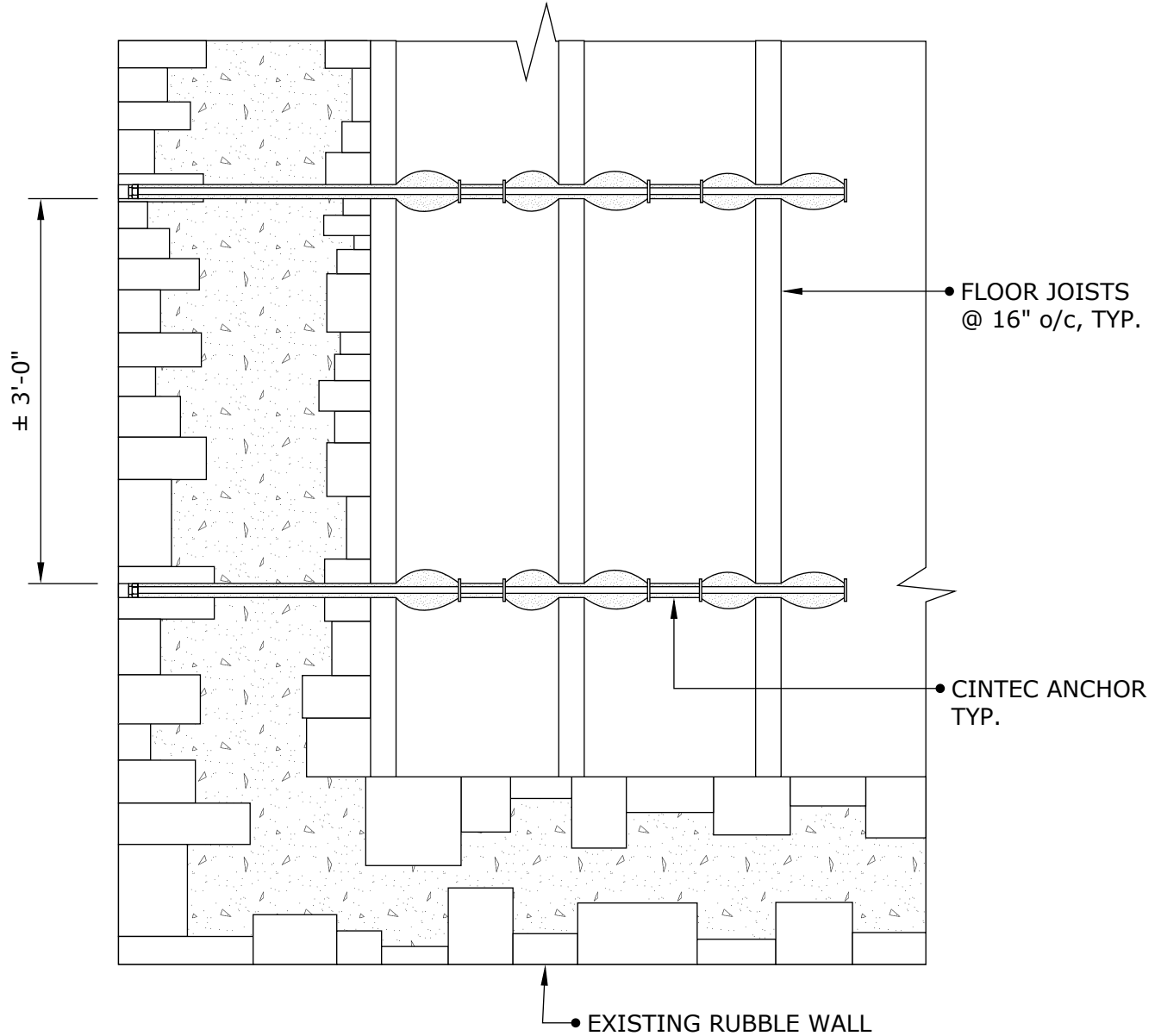
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Drawing Title:

**PARAPET WALL
 SUPPORT ANCHORS**



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FLOOR JOIST PARTIAL PLAN

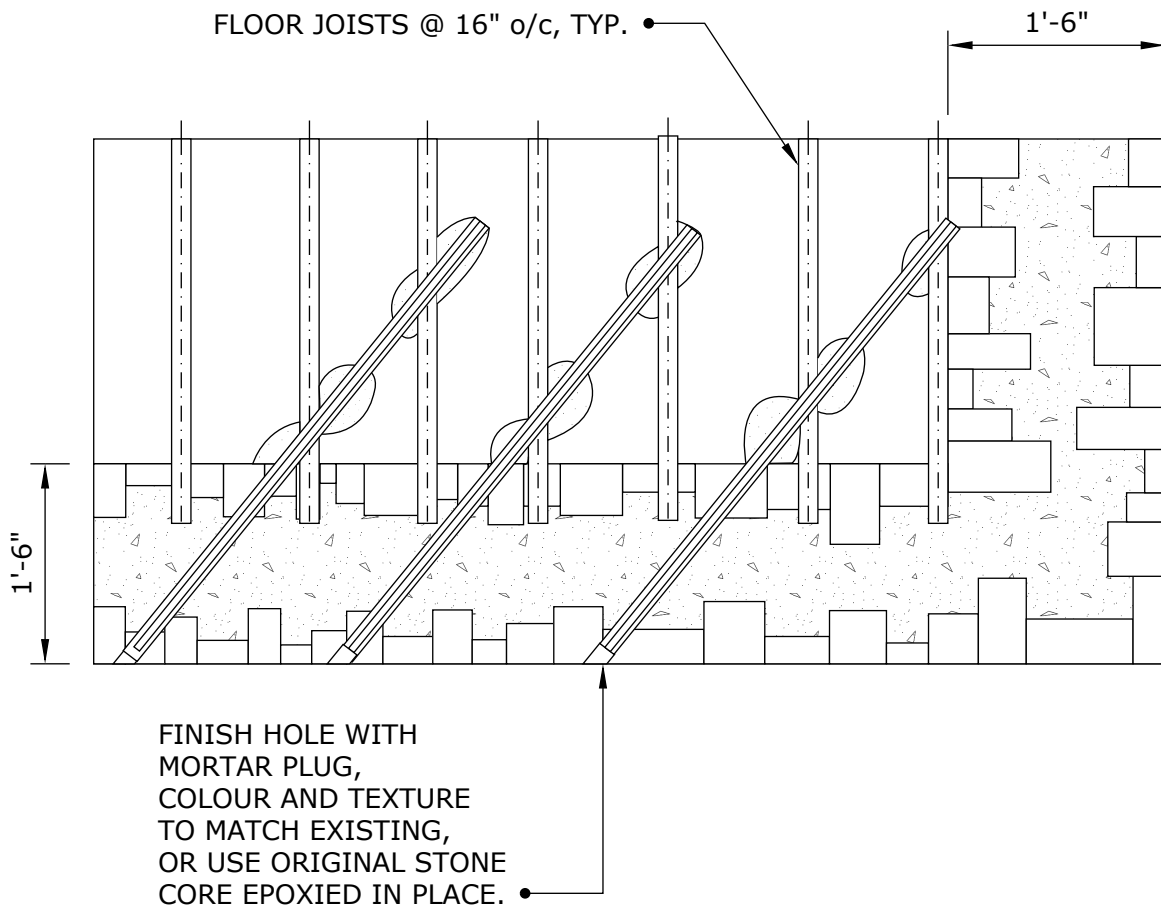


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Drawing Title:
**RUBBLE WALL TO
WOOD FLOOR
DIAPHRAGM
STABILIZATION**



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FLOOR JOIST PARTIAL PLAN

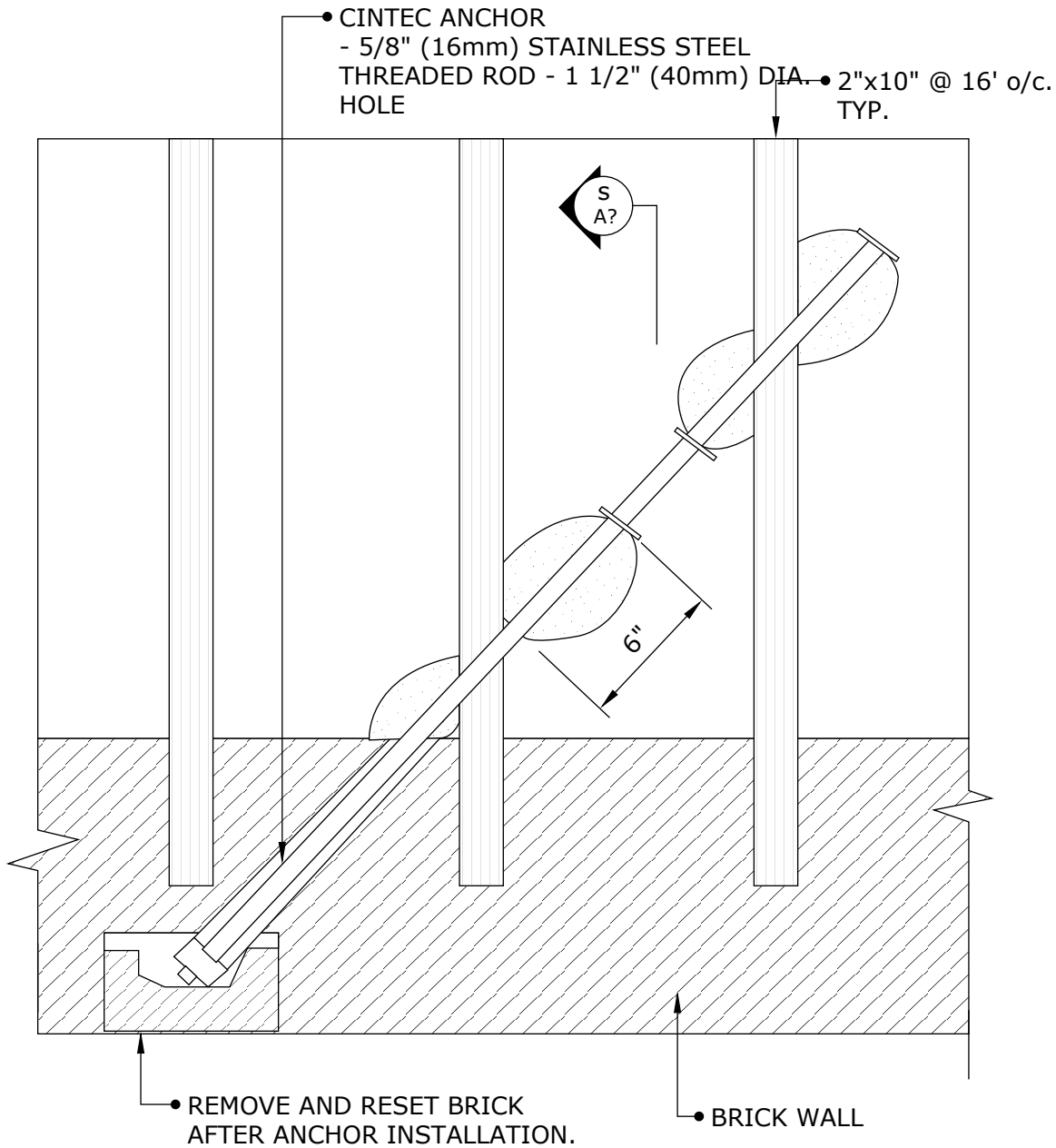


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Drawing Title:
**RUBBLE WALL TO
WOOD FLOOR
DIAPHRAGM
STABILIZATION**



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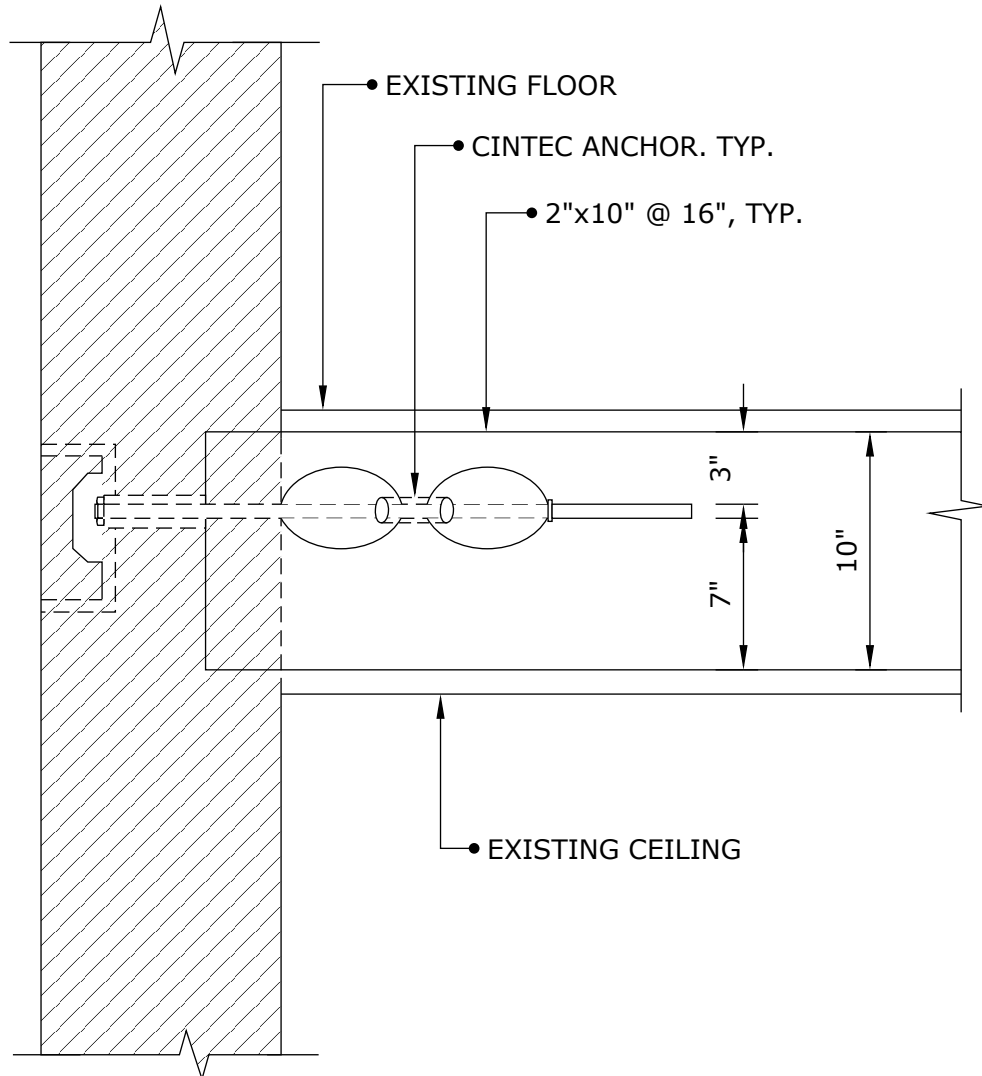


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Drawing Title:
**BRICK WALL TO WOOD
FLOOR DIAPHRAGM
STABILIZATION**



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SECTION

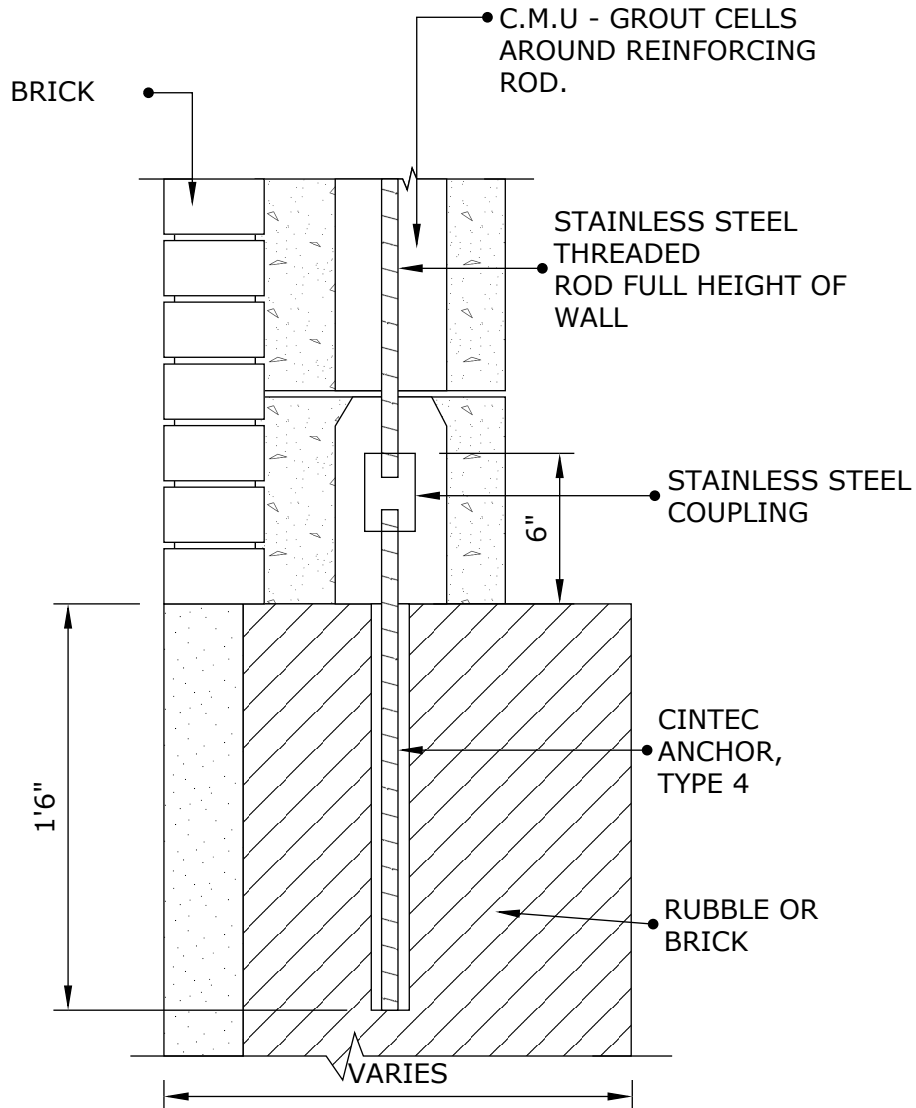


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**BRICK WALL TO WOOD
FLOOR DIAPHRAGM
STABILIZATION**



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NOTES:

1. FOR ANCHOR DESCRIPTIONS SEE SK-08
2. CLIENT TO CHECK TOTAL ANCHOR LENGTH PRIOR TO ORDERING



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COPING STONE ANCHORS

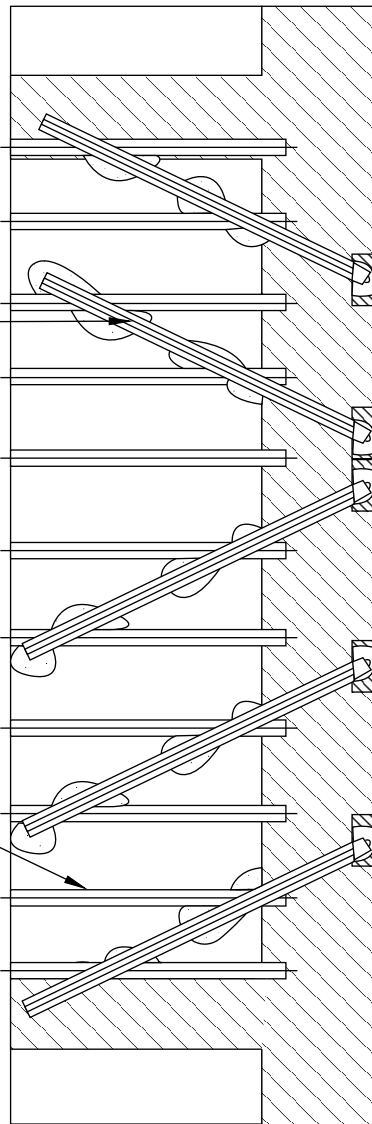


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CINTEC ANCHOR TYP.
SEE DETAIL



2"x10" @ 16" o/c TYP.



FLOOR JOIST PARTIAL
PLAN

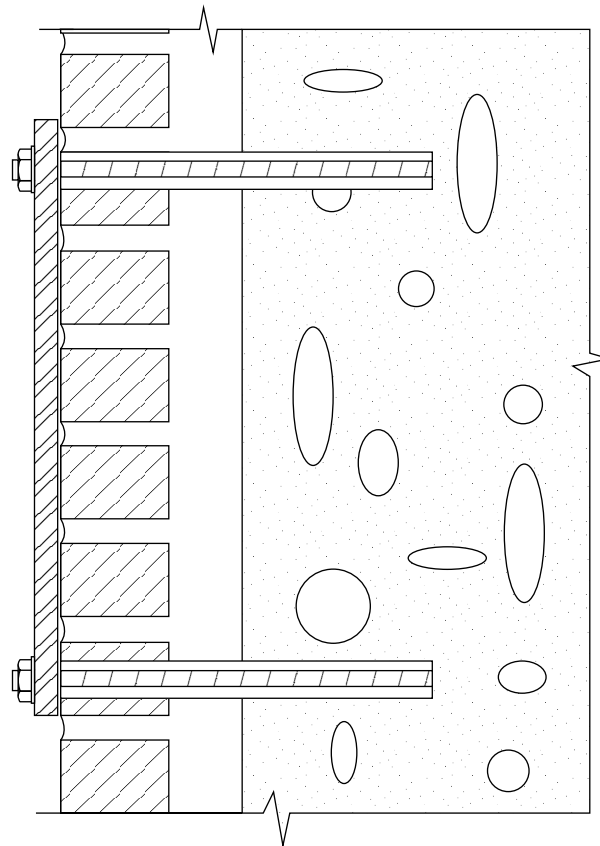


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1-613-225-3381
Fax: 1-613-224-9042
E-mail: solutions@cintec.com

Drawing Title:
**BRICK WALL TO WOOD
FLOOR DIAPHRAGM
STABILIZATION**



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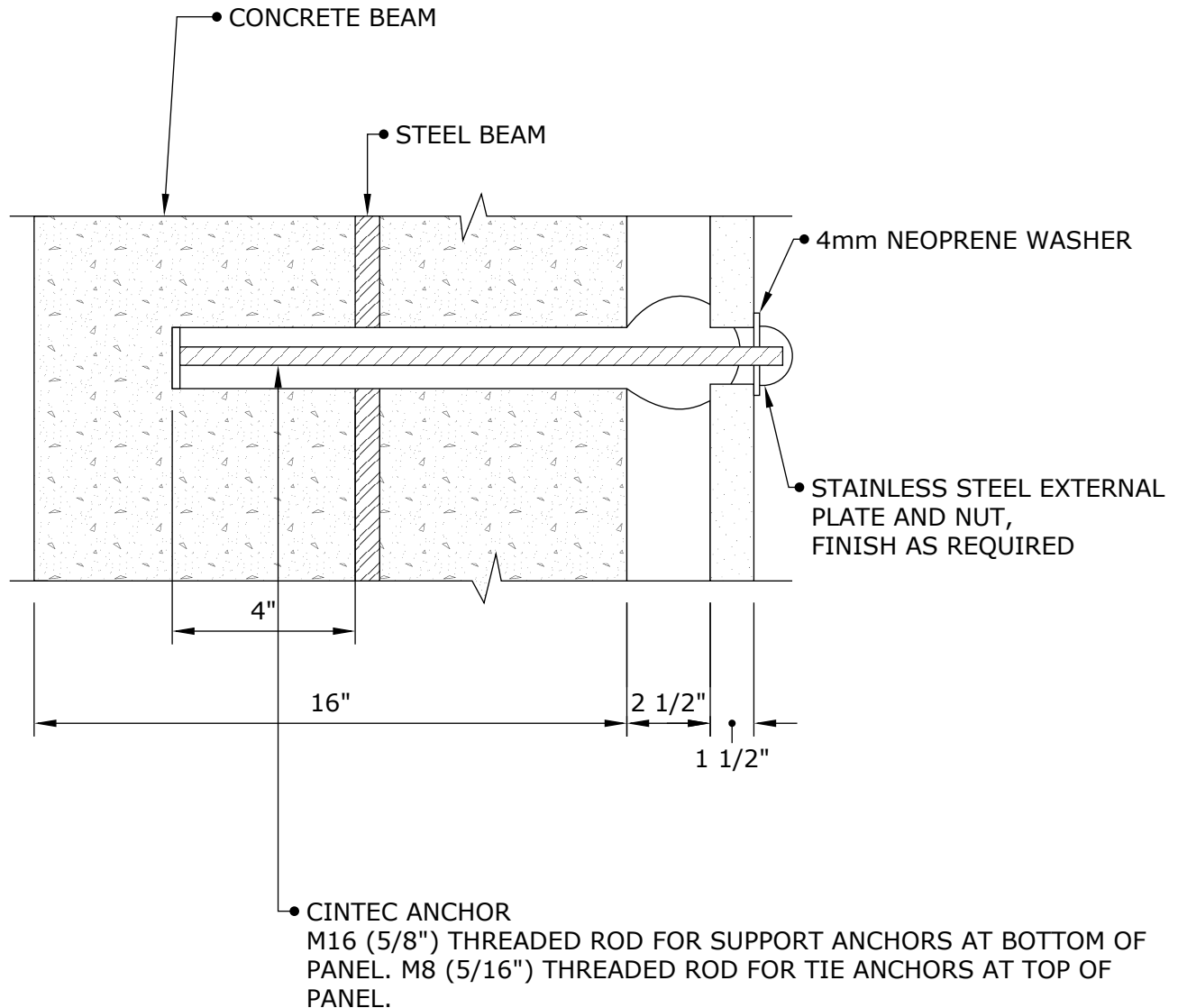
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Drawing Title:

BRICK STABILIZATION



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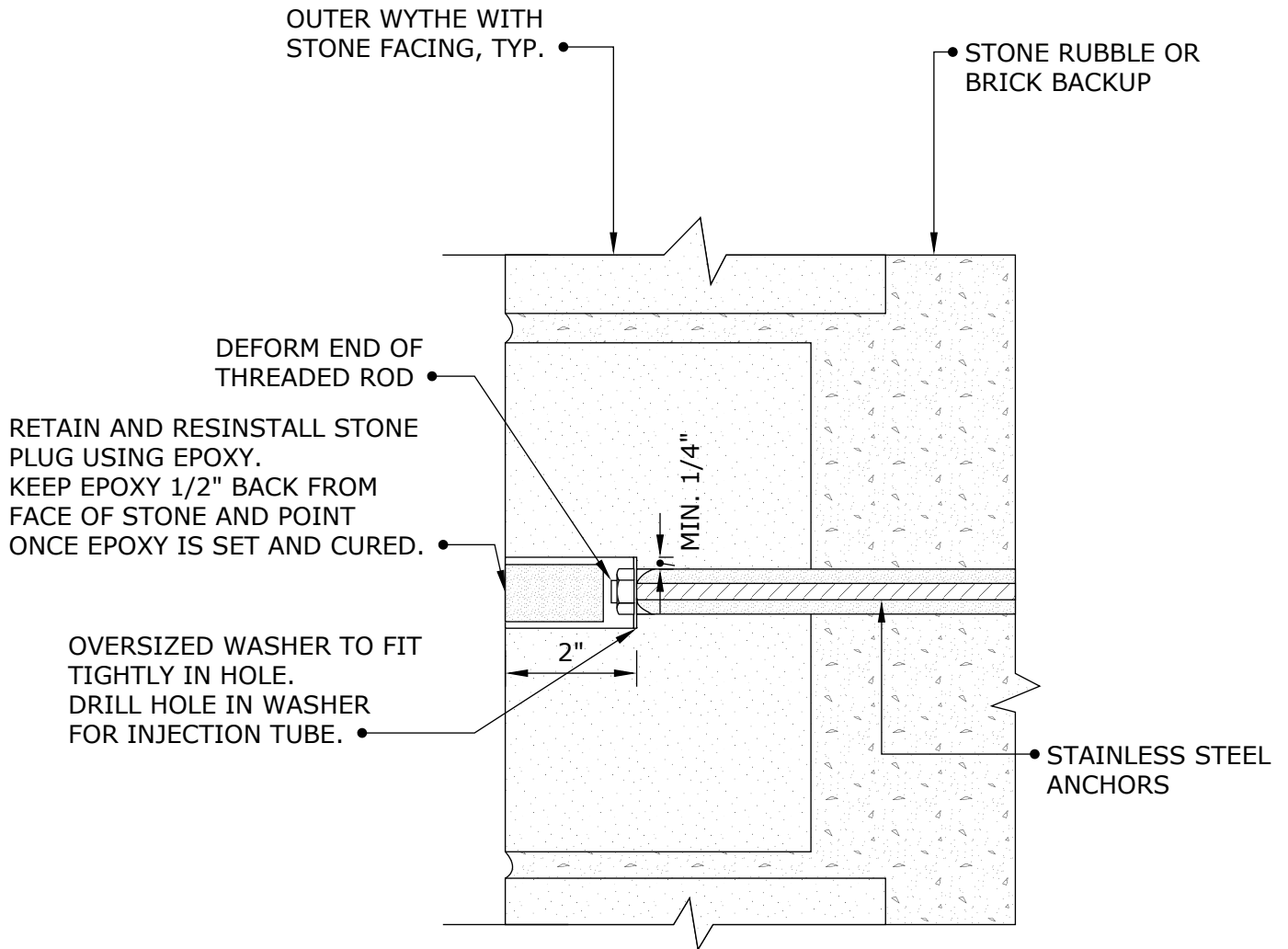
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Drawing Title:

THIN FACADE SUPPORT ANCHOR



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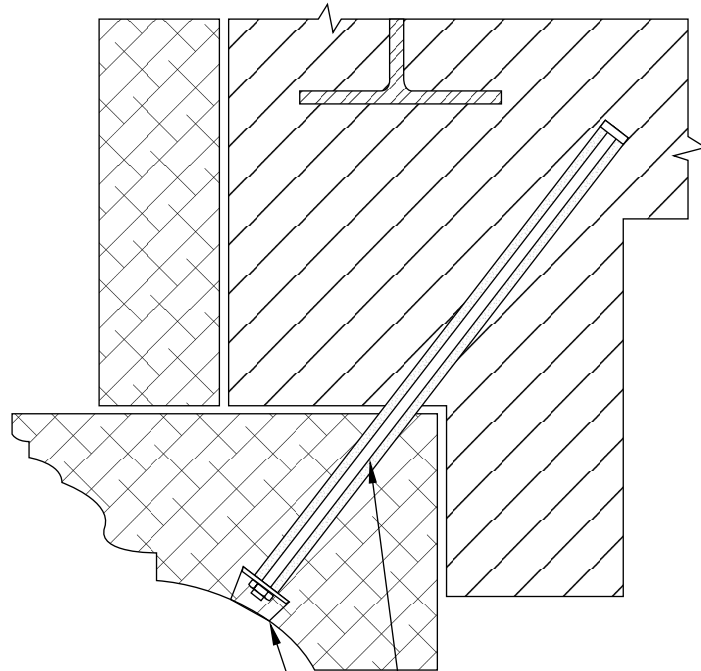
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Drawing Title:

**STONE VENEER
STABILIZATION**



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RETAIN AND REINSTALL MARBLE PLUG USING EPOXY, OR USING MORTAR PLUG TO MATCH EXISTING MARBLE. KEEP EPOXY 1/2" BACK FROM FACE OF MARBLE AND POINT ONCE EPOXY IS SET AND CURED.

- CINTEC ANCHOR:
- STAINLESS STEEL THREADED ROD
 - SOCK TO FIT
 - SOCK FULL LENGTH
 - OVERSIZED WASHER



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Drawing Title:

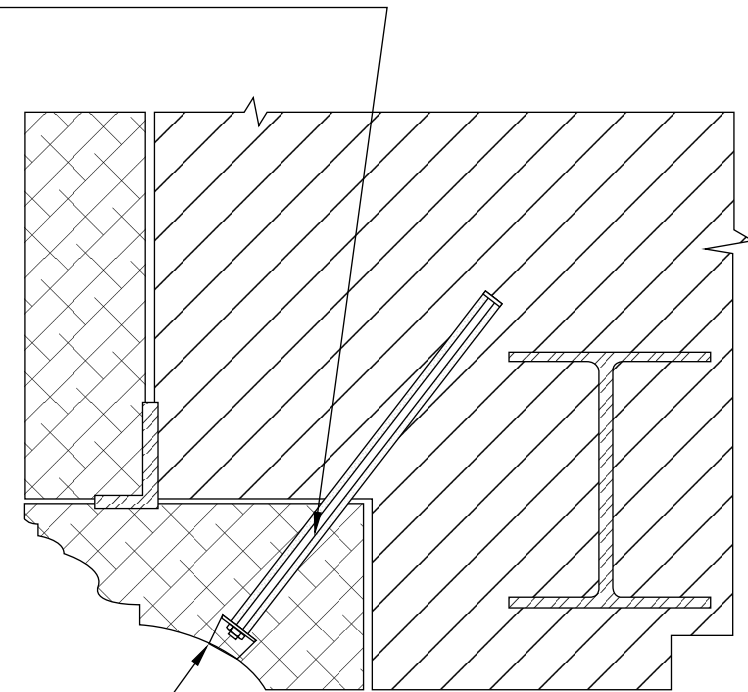
LINTEL ANCHORS



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CINTEC ANCHOR:

- STAINLESS STEEL THREADED ROD
- SOCK TO FIT
- SOCK FULL LENGTH
- OVERSIZED WASHER



- RETAIN AND REINSTALL MARBLE PLUG USING EPOXY, OR USING MORTAR PLUG TO MATCH EXISTING MARBLE. KEEP EPOXY 1/2" BACK FROM FACE OF MARBLE AND POINT ONCE EPOXY IS SET AND CURED.



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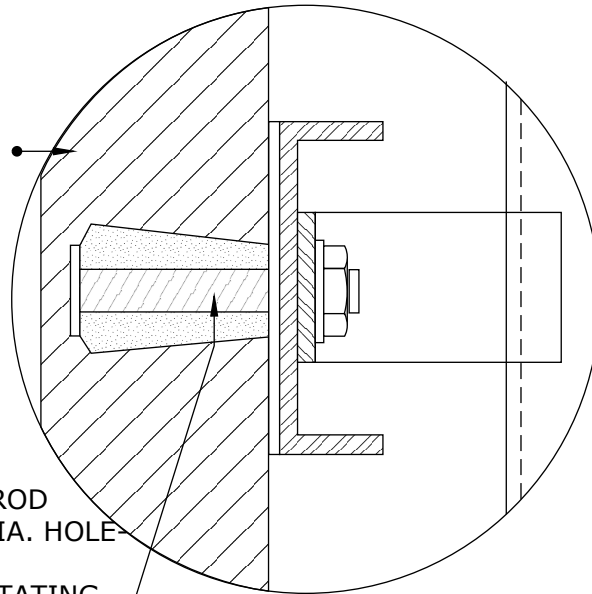
Drawing Title:

LINTEL ANCHORS



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200mm (8") OR 300mm (12")
SOLID BRICK WALL

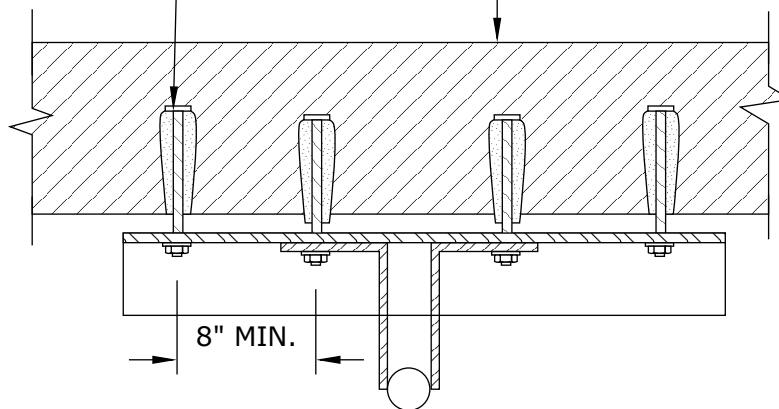


16mm (5/8") CINTEC ANCHOR
- STAINLESS STEEL THREADED ROD
- SOCK TO FIT 40mm (1 1/2") DIA. HOLE
- SOCK LENGTH 150mm (6")
- UNDER-CUT HOLE BY 5" BY ROTATING
THE TIP OF THE DRILL BIT.

200mm (8") OR 300mm (12")
SOLID BRICK WALL

CINTEC ANCHOR
UNDER-CUT, TYP.

DETAIL A



SECTION 1-1



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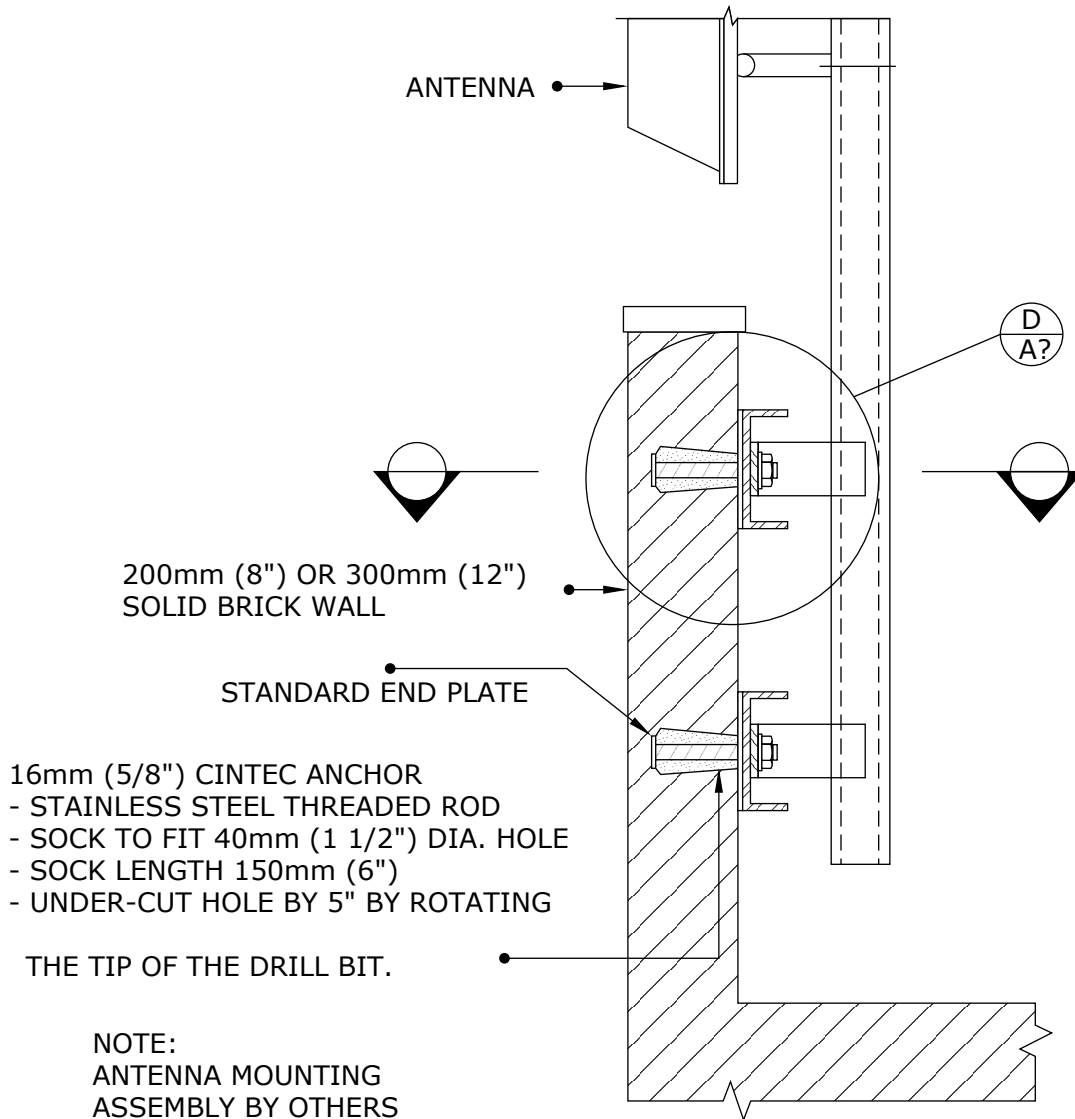
Drawing Title:

**CINTEC ANCHOR
TYPICAL DETAIL**



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CINTEC M16 (5/8") STAINLESS STEEL ANCHOR



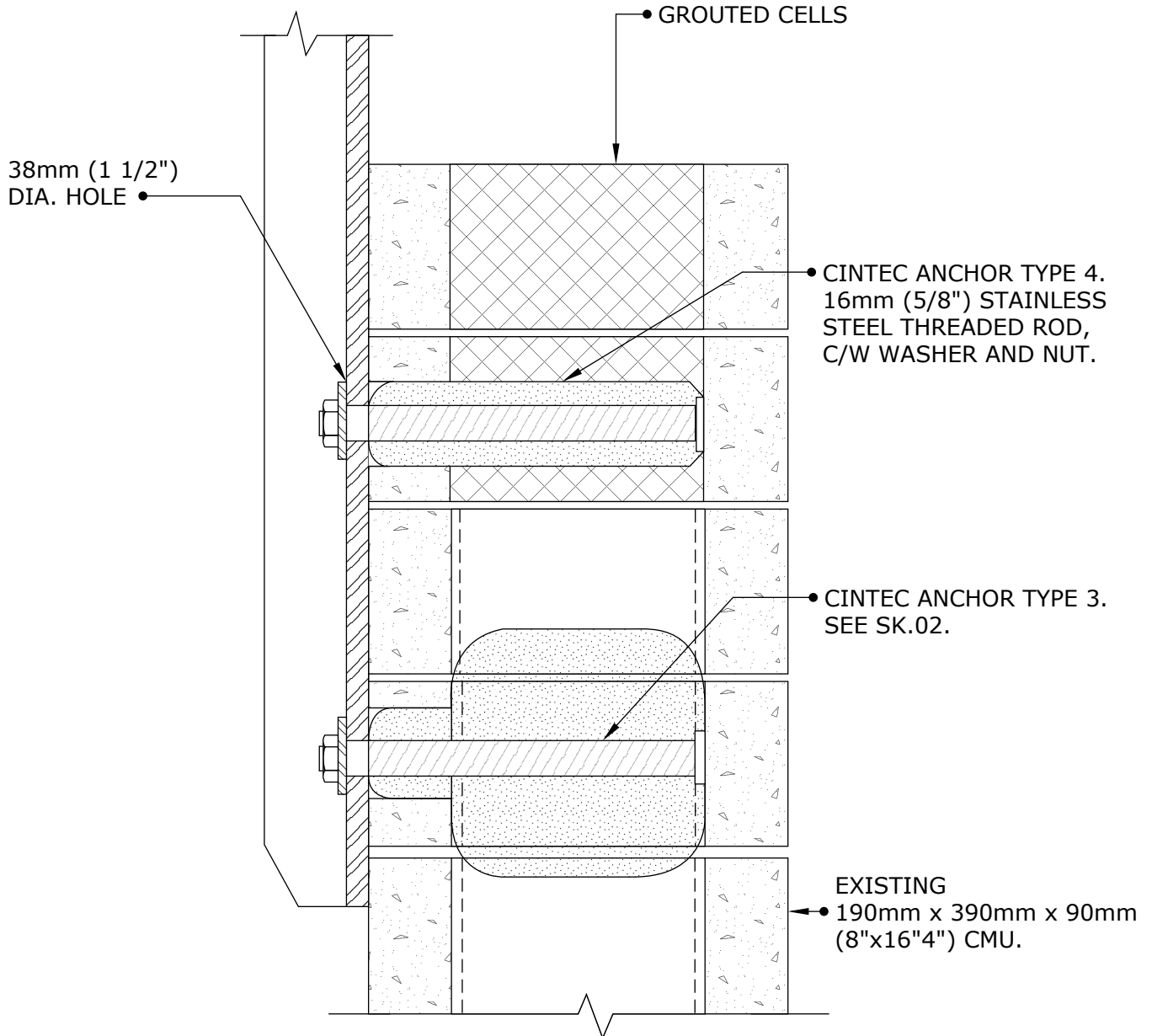
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Fax: 1-613-224-9042
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Drawing Title:

**CINTEC ANCHOR
TYPICAL DETAIL**



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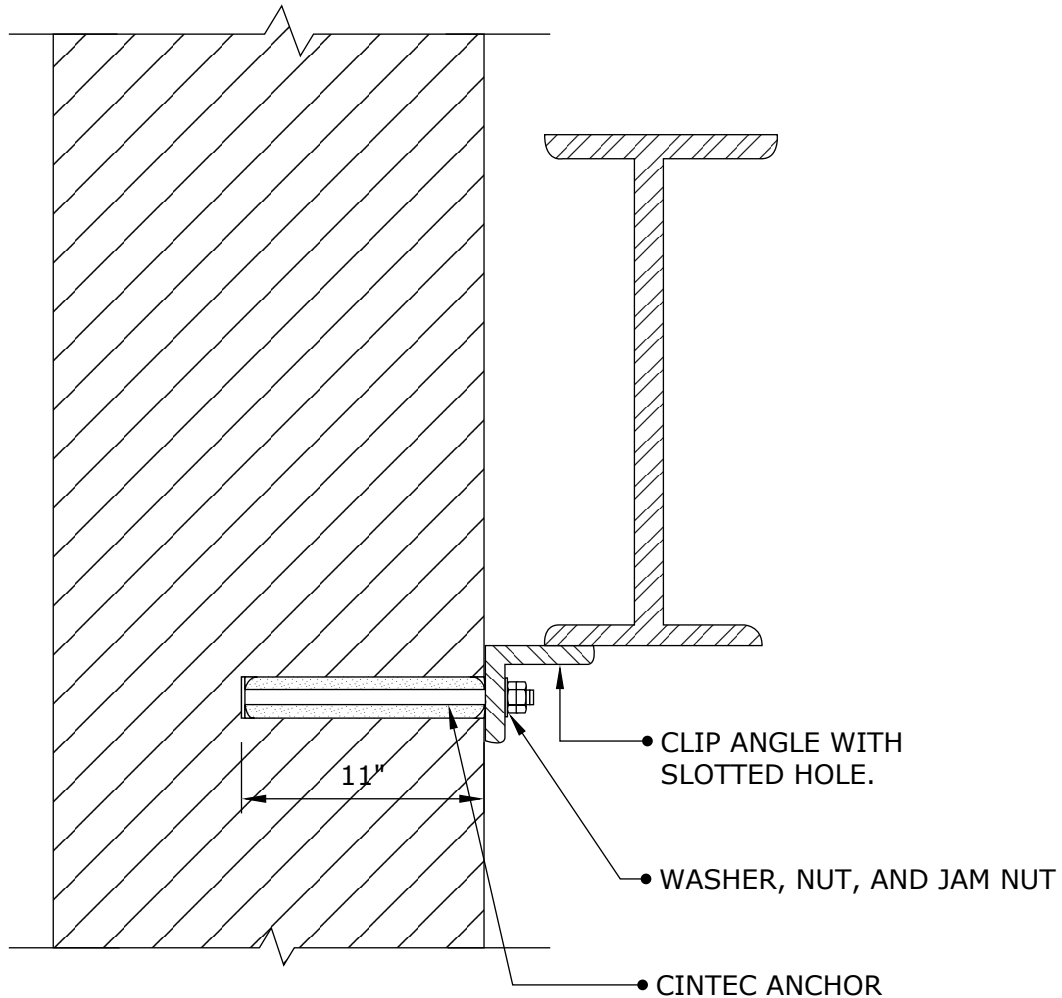
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Drawing Title:

CINTEC ANCHOR



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NOTES:

1. FOR ANCHOR DESCRIPTIONS SEE SK-
2. FOR SPACING OF ANCHORS SEE SK-
3. CLIENT TO CHECK TOTAL ANCHOR LENGTH PRIOR TO ORDERING.



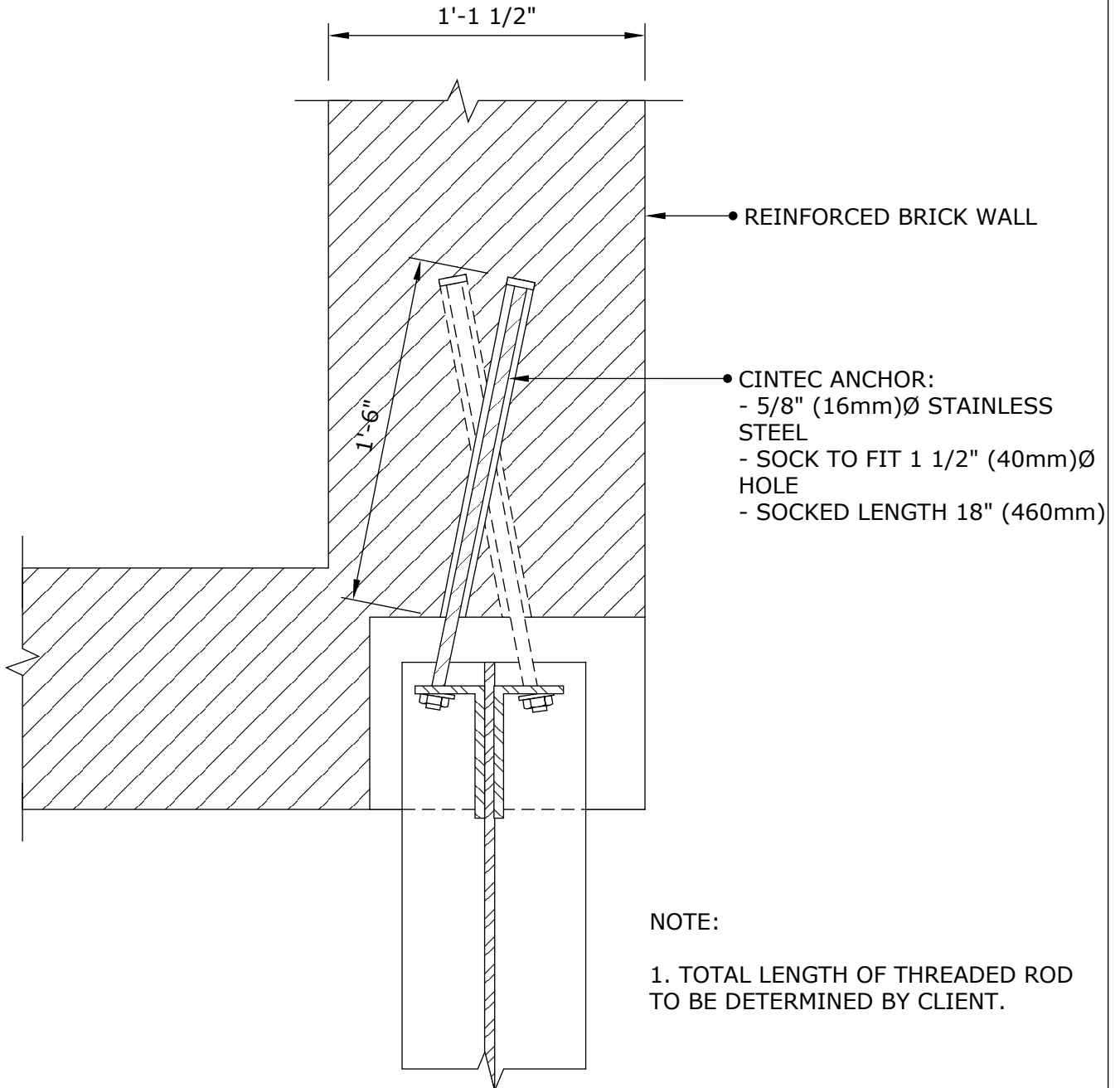
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Drawing Title:

**CINTEC ANCHOR DETAIL
AT GABLED ROOF**



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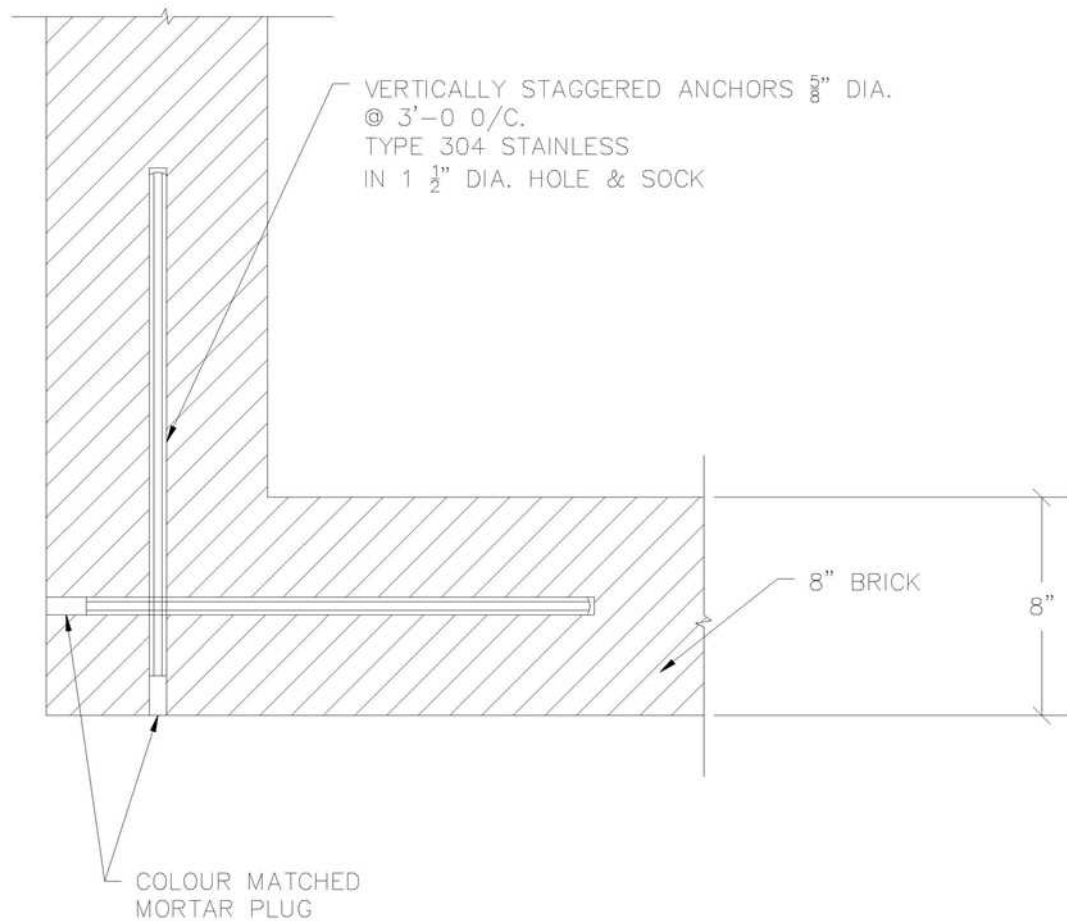
Drawing Title:

**BEAM/PIER
CONNECTION ANCHOR
DETAIL**



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CINTEC M16 (5/8") STAINLESS STEEL ANCHOR



NOTES :
1.CLIENT TO CHECK TOTAL ANCHOR LENGTH PRIOR TO ORDERING.



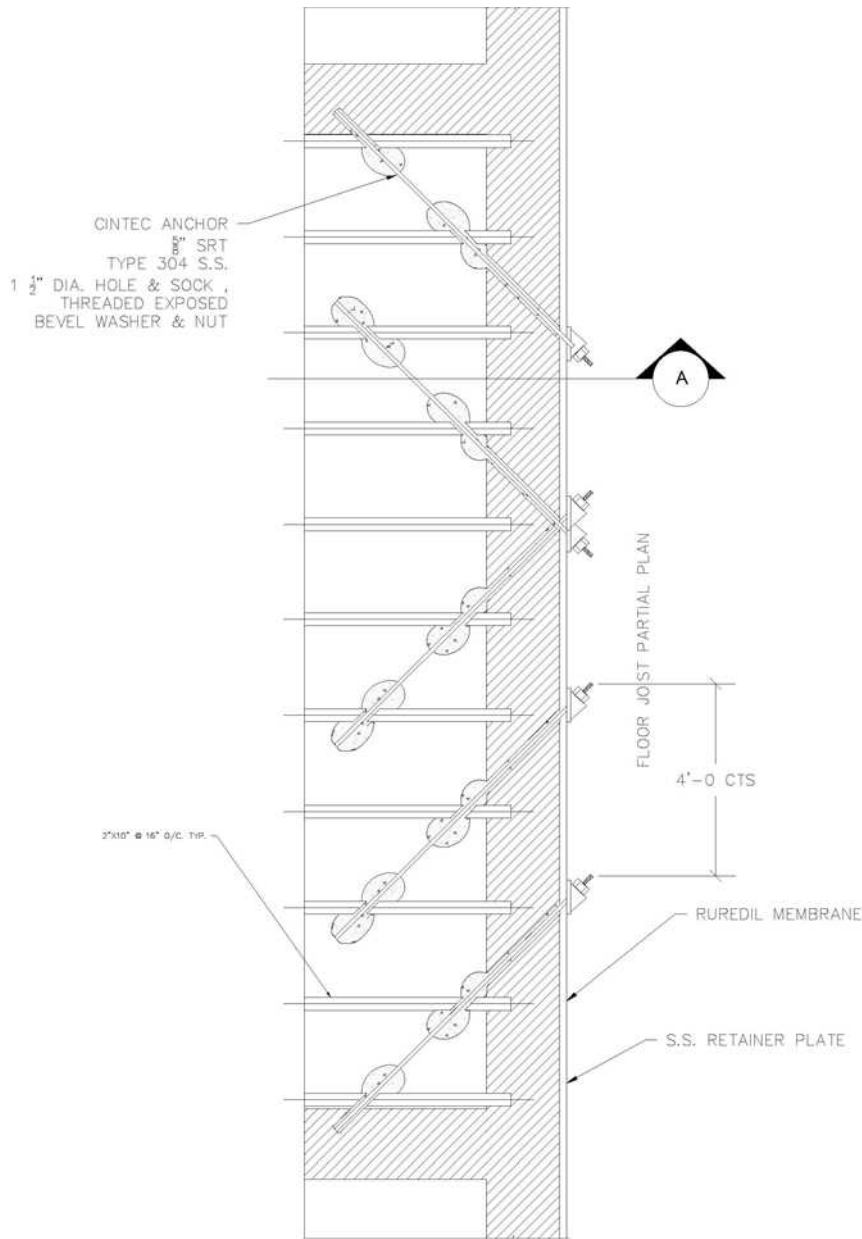
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Drawing Title:

**STITCHING ANCHORS
AT CORNER**



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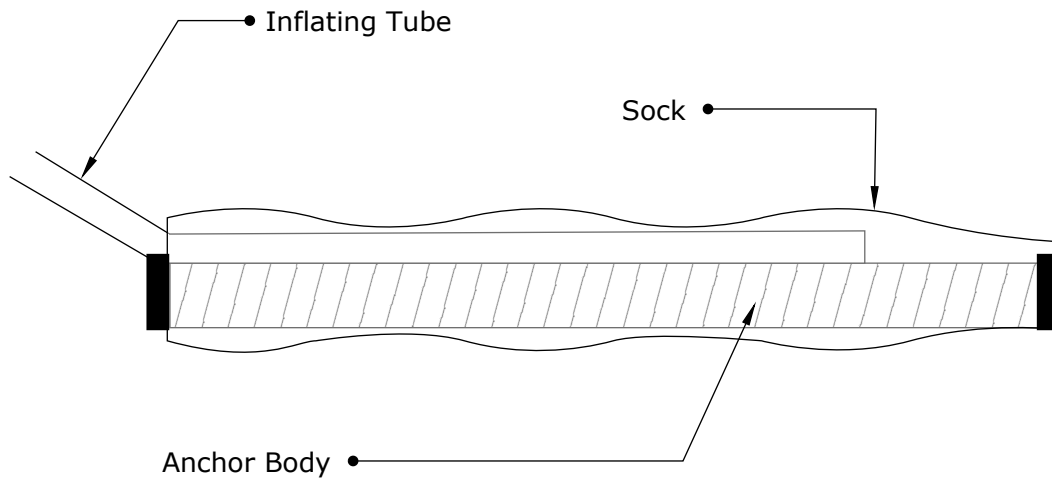
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Drawing Title:
**BRICK WALL TO WOOD
 FLOOR DIAPHRAGM
 STABILIZATION**



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CINTEC M20 (3/4") SRT STAINLESS STEEL ANCHOR



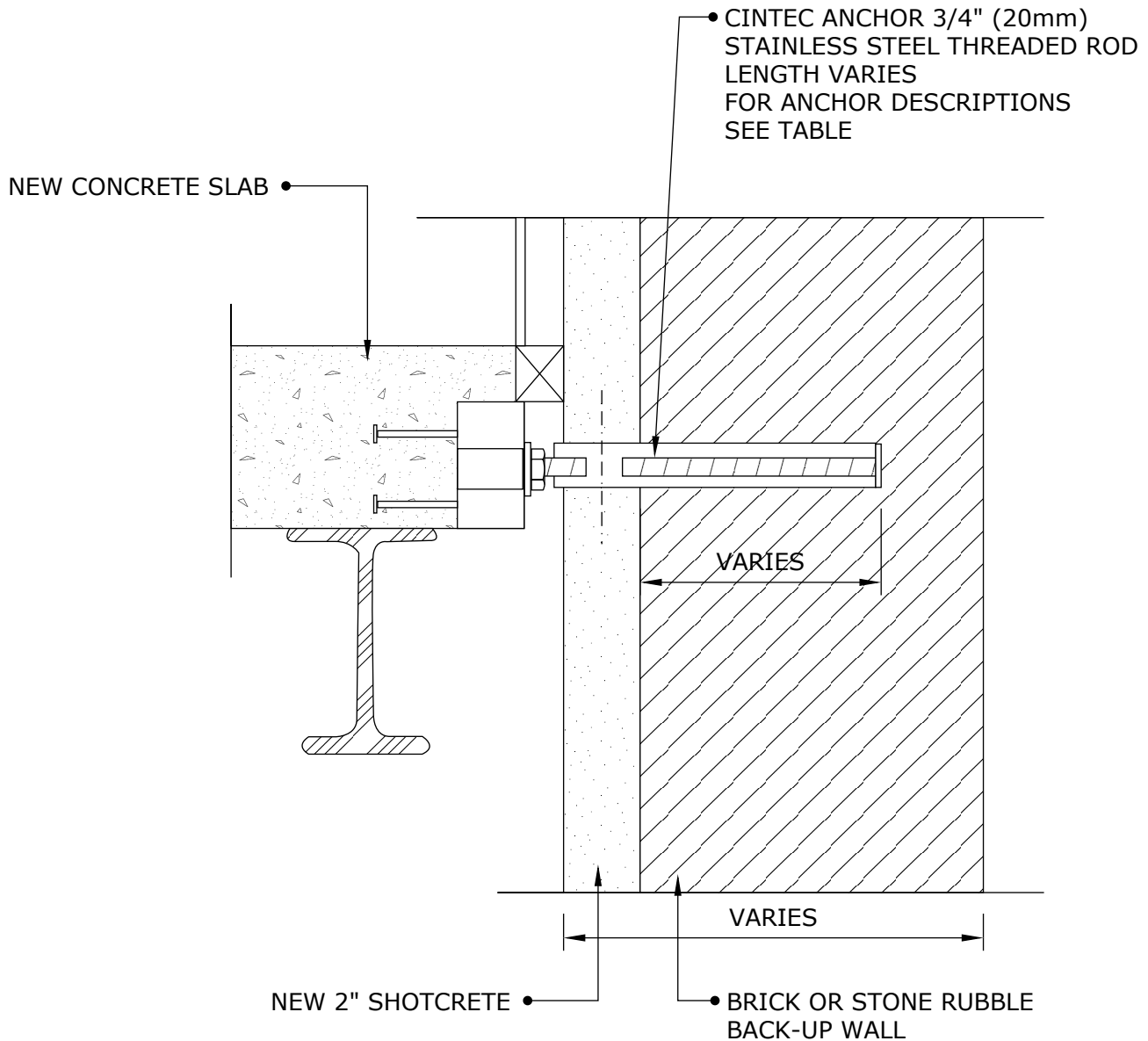
ANCHOR BODY	SOCK	END CONDITION
Grade 304 S/S M20 (3/4") Dia Solid Threaded Rod	2" (50mm) or larger to suit site conditions as directed by project Engineer/Architect	

ANCHOR LENGTH TO SUIT SITE CONDITIONS
Client to confirm ALL lengths before ordering.

	Engineered Grout Injection Anchors by: Cintec Reinforcement Systems Tel: 1-410-761-0765 1-613-225-3381 Fax: 1-613-224-9042 E-mail: solutions@cintec.com	Drawing Title: M20 3/4" STAINLESS STEEL CINTEC ANCHOR
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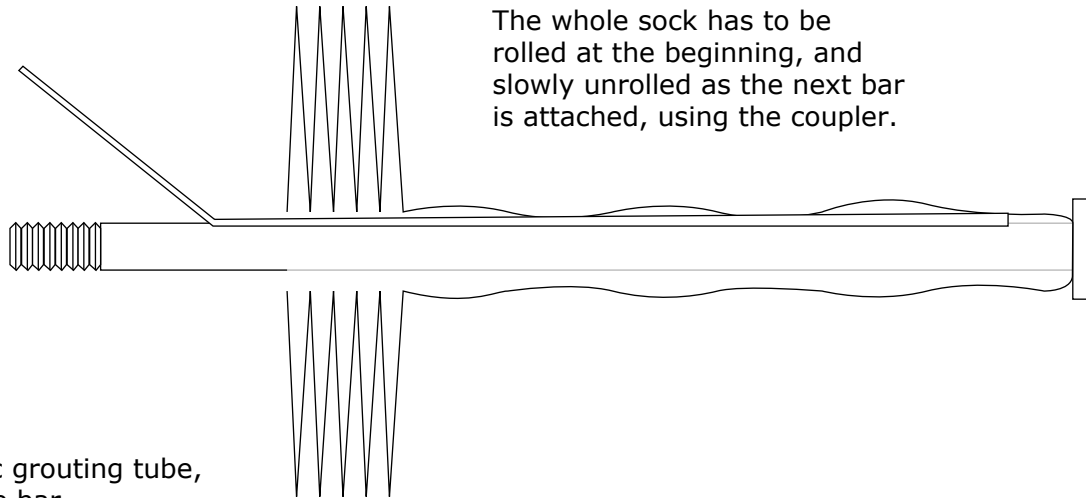


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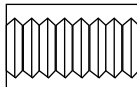
Drawing Title:
**TYPICAL ANCHOR
DETAIL TO TIE NEW
FLOOR TO EXISTING
WALL**



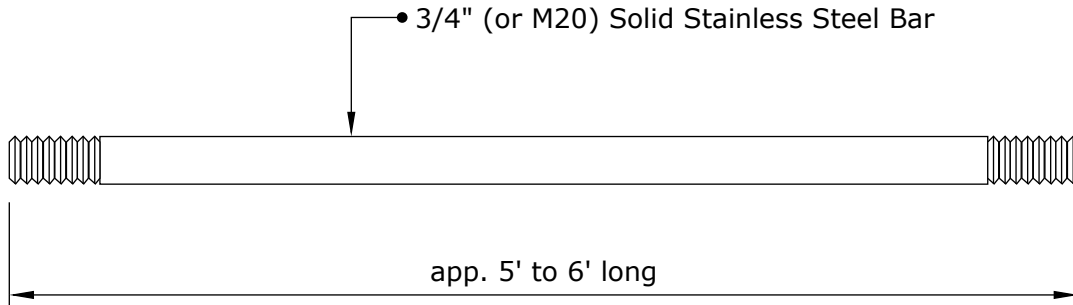
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Copuler



Intermediate Piece



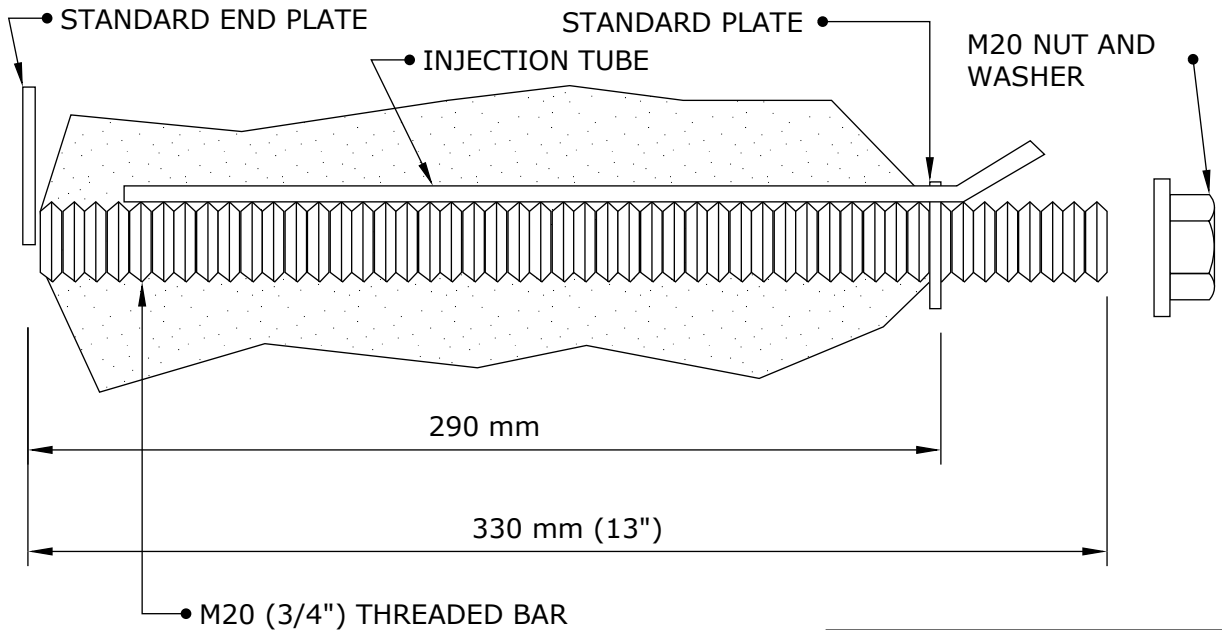
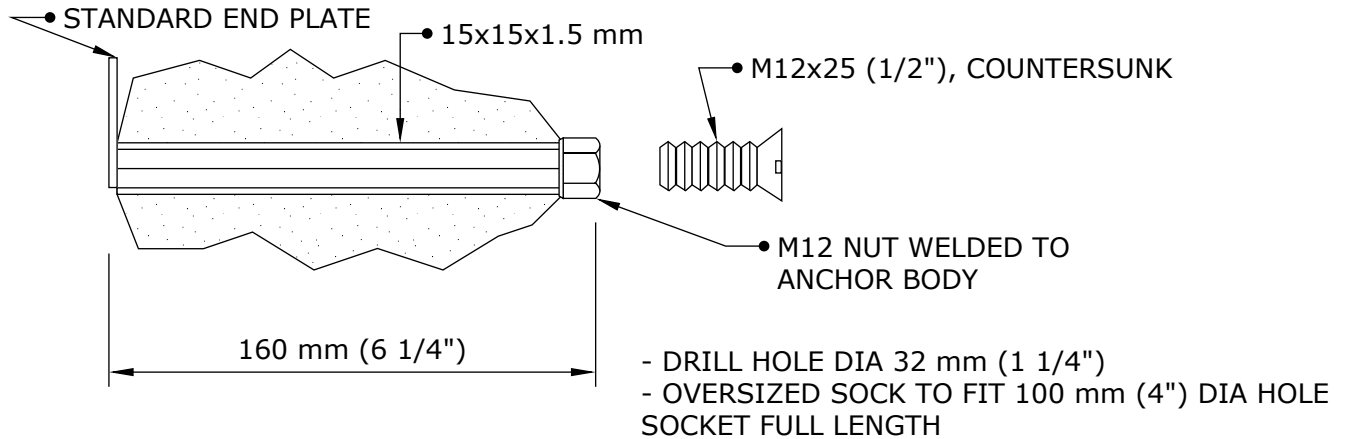
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Drawing Title:

CINTEC ANCHOR DETAIL



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- DRILL HOLE DIA 50 mm (2")
- OVERSIZED SOCK TO FIT 150 mm (6") DIA HOLE SOCKET FULL LENGTH

NOTE:
ALL STEEL TO BE STAINLESS
S304



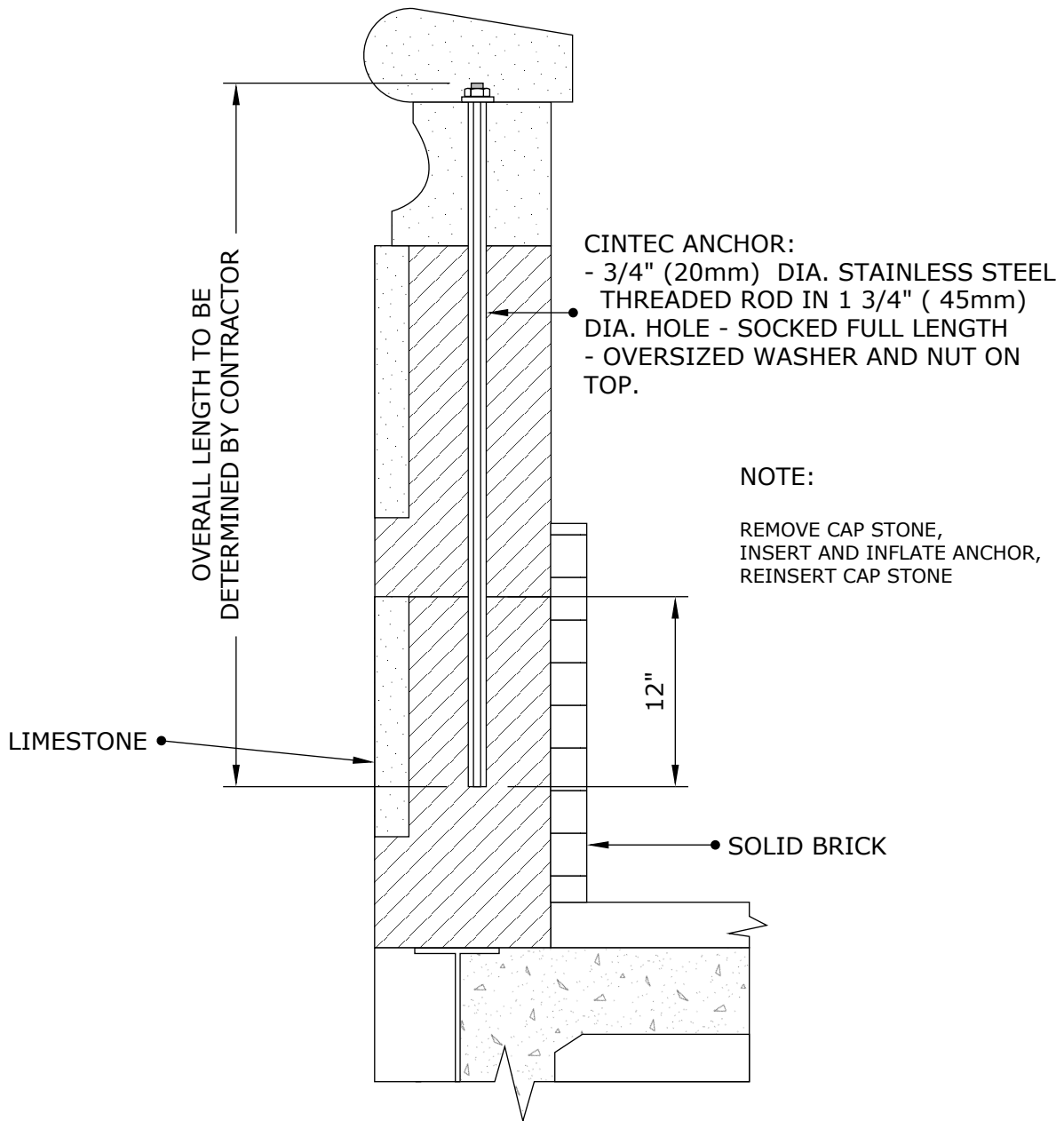
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Drawing Title:

CINTEC ANCHORS



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Drawing Title:

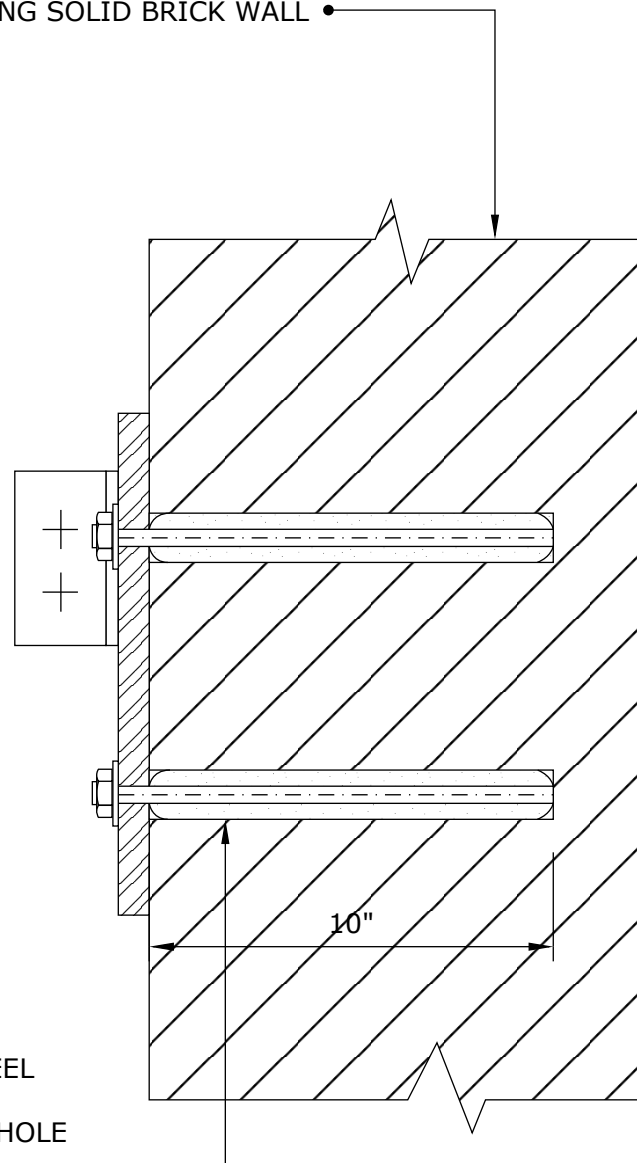
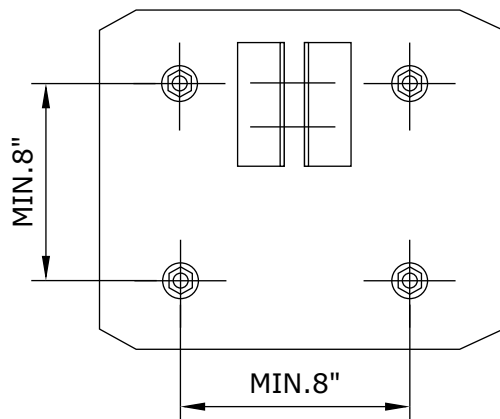
PARAPET STITCHING



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CINTEC M20 (3/4") STAINLESS STEEL ANCHOR

EXISTING SOLID BRICK WALL



- CINTEC ANCHOR:
- 3/4"Ø (20mm) STAINLESS STEEL ROD
- SOCK TO FIT IN 2"Ø (50mm) HOLE
- SOCKED FULL LENGTH
10" (250mm) LONG



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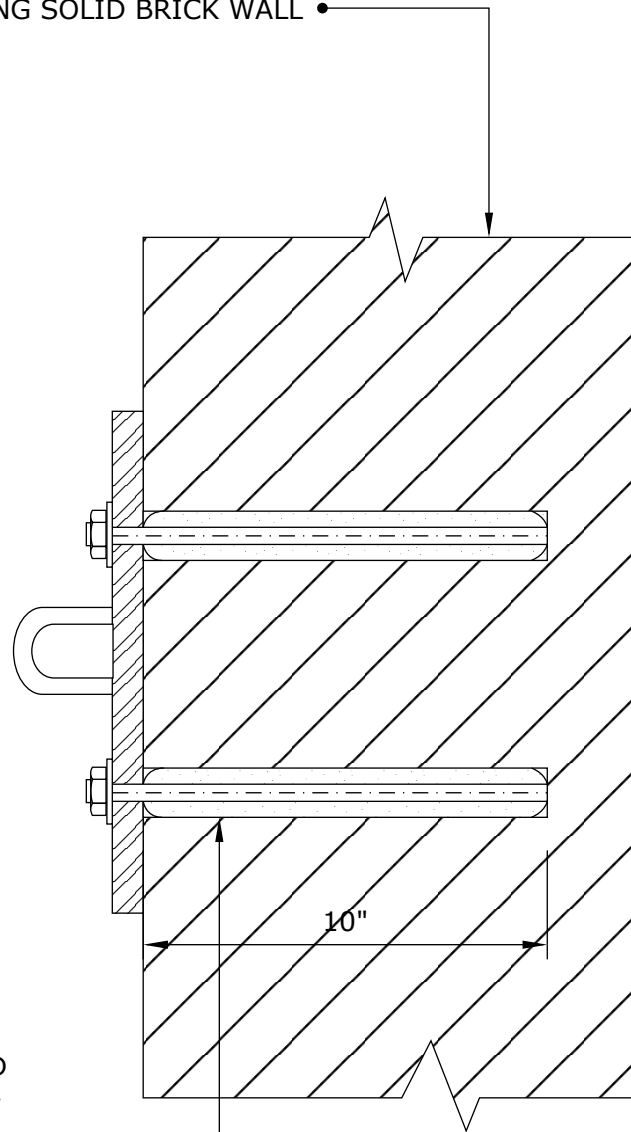
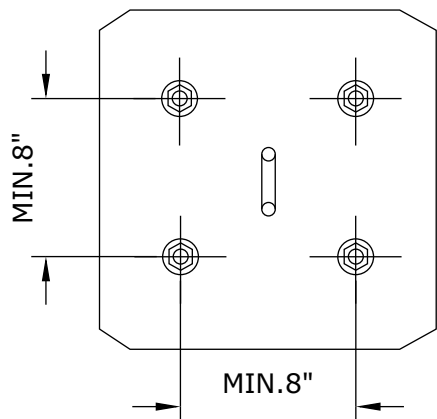
**BALCONY SUPPORTS
BOTTOM PLATE**



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CINTEC M20 (3/4") STAINLESS STEEL ANCHOR

EXISTING SOLID BRICK WALL



- CINTEC ANCHOR:
- 3/4"Ø (20mm) STAINLESS STEEL ROD
- SOCK TO FIT IN 2" (50mm) Ø HOLE - SOCKED FULL LENGTH
- 10" (250mm) LONG



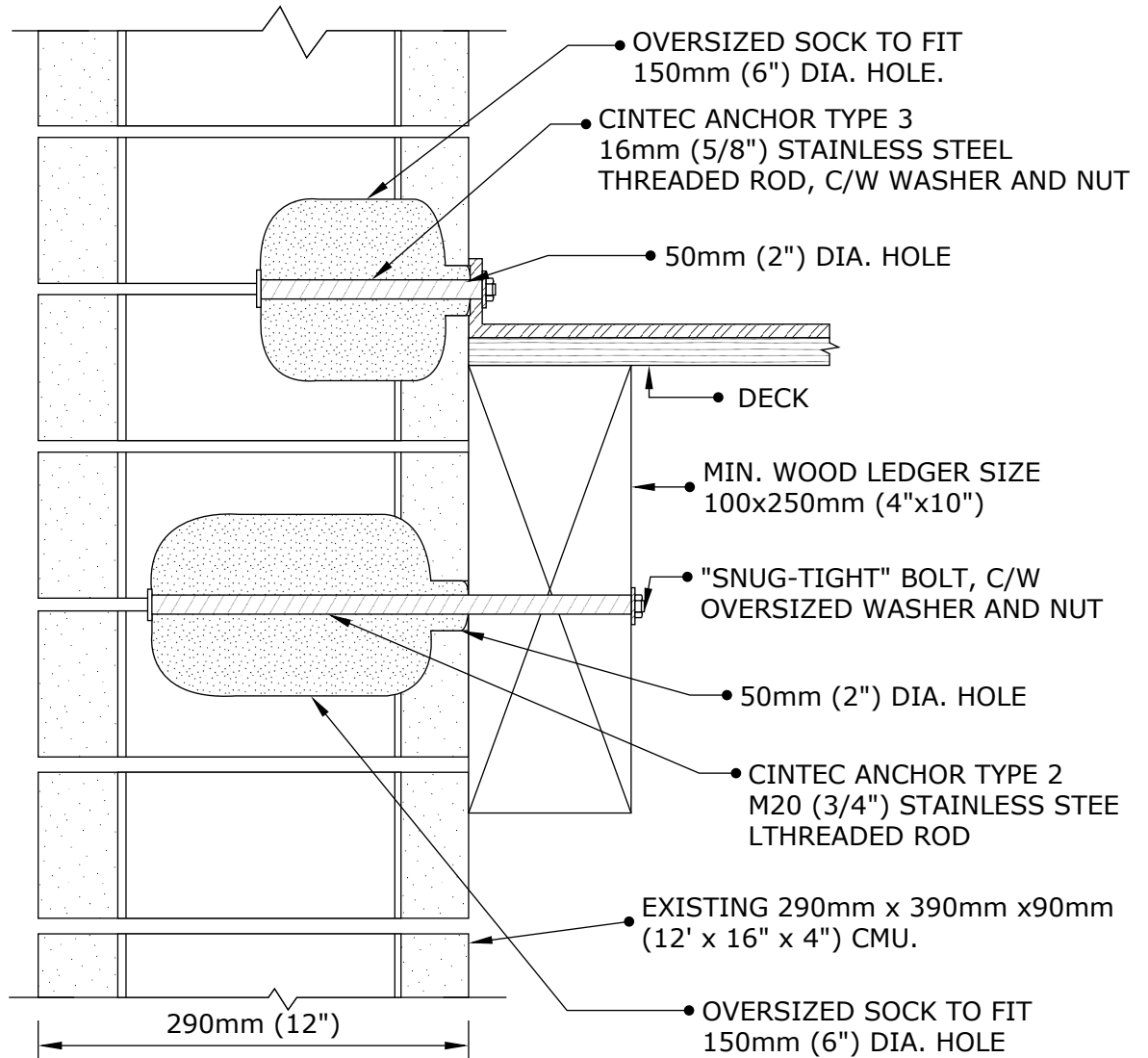
Engineered Grout Injection Anchors by:
Cintec Reinforcement Systems
Tel: 1-410-761-0765
1-613-225-3381
Fax: 1-613-224-9042
E-mail: solutions@cintec.com

Drawing Title:

**BALCONY SUPPORTS
TOP PLATE**



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NOTE:
DO NOT ALIGN TWO ANCHORS VERTICALLY.
MIN. HORIZONTAL SPACING OF ANCHORS
TYPE 2 AND 3 IS 300mm (12").



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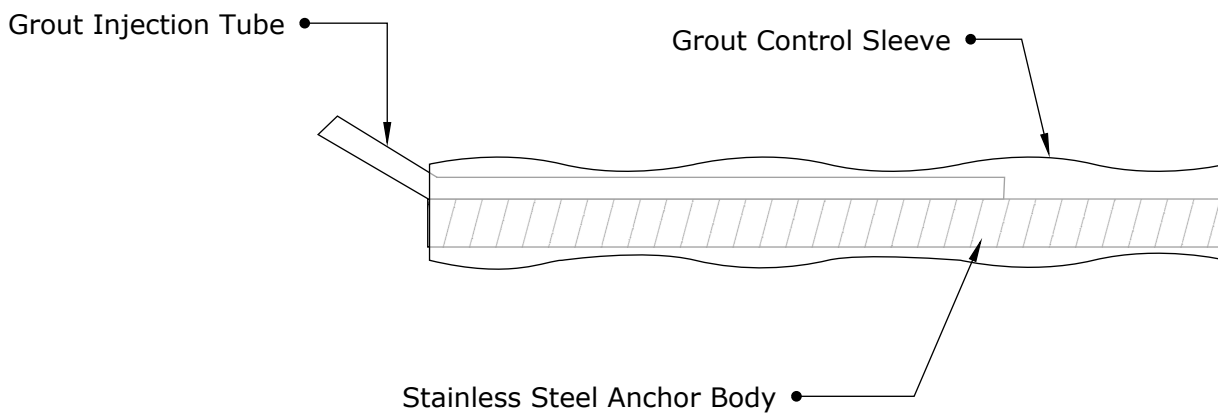
Drawing Title:

CINTEC ANCHORS



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CINTEC REINFORCEMENT ANCHOR M25 (1") STAINLESS STEEL ANCHOR



ANCHOR BODY	SOCK	CORE HOLE SIZE
SS Type 304 M25 (1") Dia Anchor Body	Full length of Anchor Body	To suit site conditions

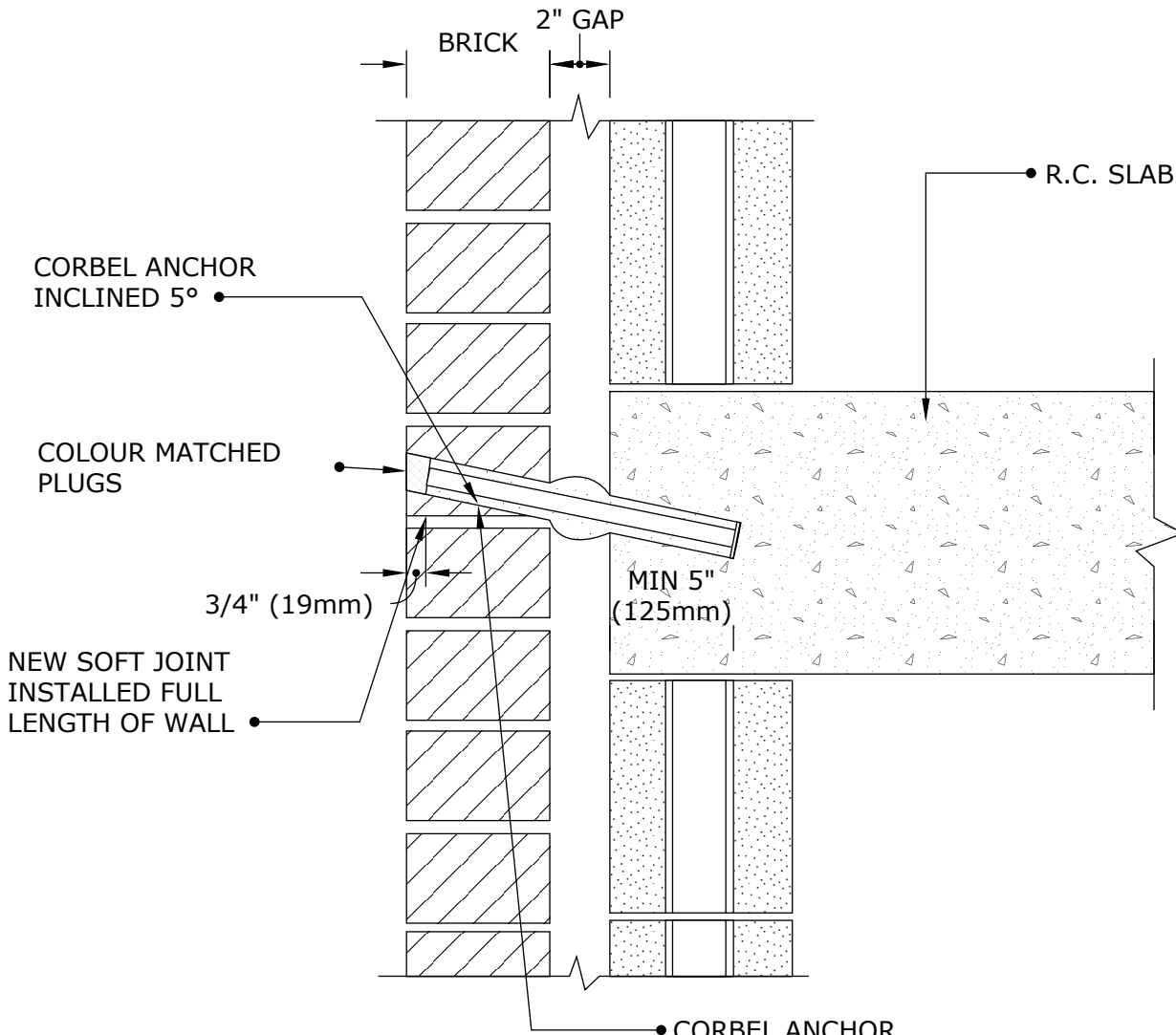
All CINTEC anchors are comprised of a structural member surrounded by a fabric sleeve into which Presstec grout is injected. Stainless steel sizes/sections & lengths, sleeve sizes & end conditions vary in accordance with specific design.

ANCHOR LENGTH TO SUIT SITE CONDITIONS
Client to confirm ALL lengths before ordering.

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NOTES:

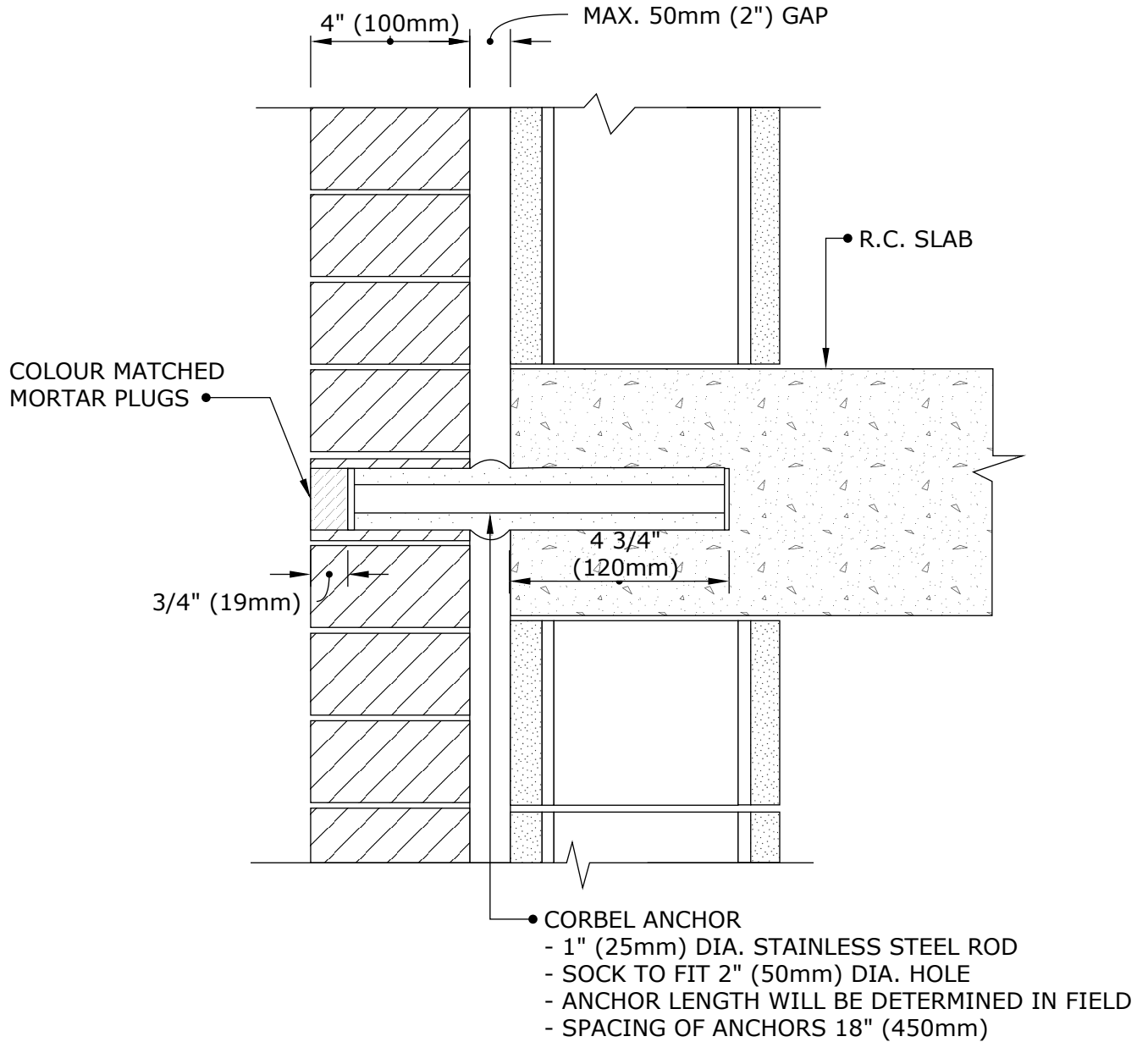
1. ANCHORS TO BE INSTALLED @ 18" O/C AT EACH FLOOR LEVEL.
2. AT 18" O/C SPACING, 2 ANCHORS SHOULD BE INSTALLED BETWEEN EACH OF THE EXISTING 6" CLIP ANGELS.

- CORBEL ANCHOR
 - 1" (25mm) DIA. STAINLESS STEEL ROD
 - SOCK TO FIT 2" (50mm) DIA. HOLE
 - ANCHOR LENGTH WILL BE DETERMINED IN FIELD
 - SPACING OF ANCHORS 18" (450mm)

	Engineered Grout Injection Anchors by: Cintec Reinforcement Systems Tel: 1-410-761-0765 1-613-225-3381 Fax: 1-613-224-9042 E-mail: solutions@cintec.com	Drawing Title: <p style="text-align: center;">CORBEL ANCHOR</p>
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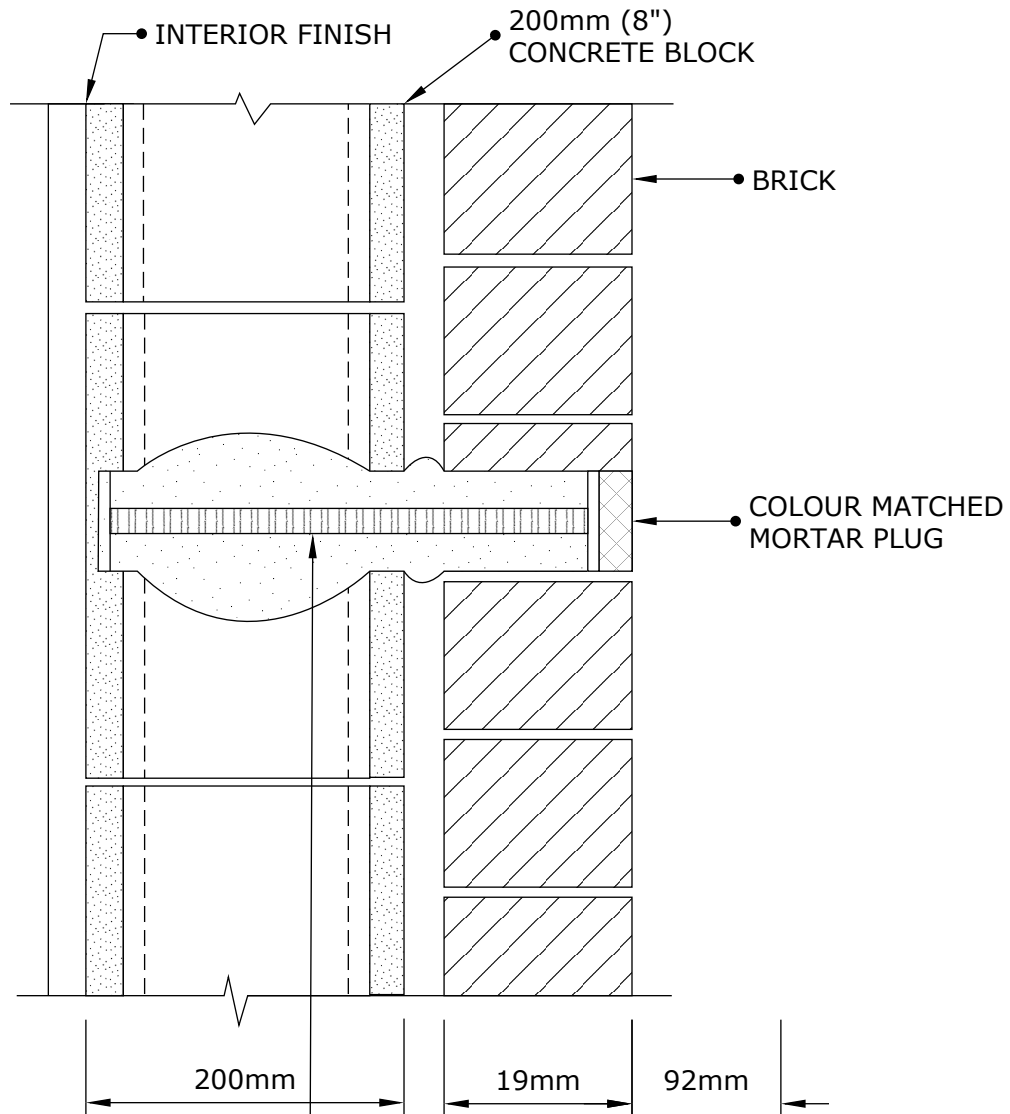
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CORBEL ANCHOR



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- SUPPORT ANCHORS AT BOTTOM OF PANEL:
 - 25mmØ (1") STAINLESS STEEL THREADED ROD
 - OVERSIZED SPCL OM 50mmØ HOLE (2")
 - SOCKED LENGTH 275mm
 - SPACING OF ANCHORS = 450mm (18")



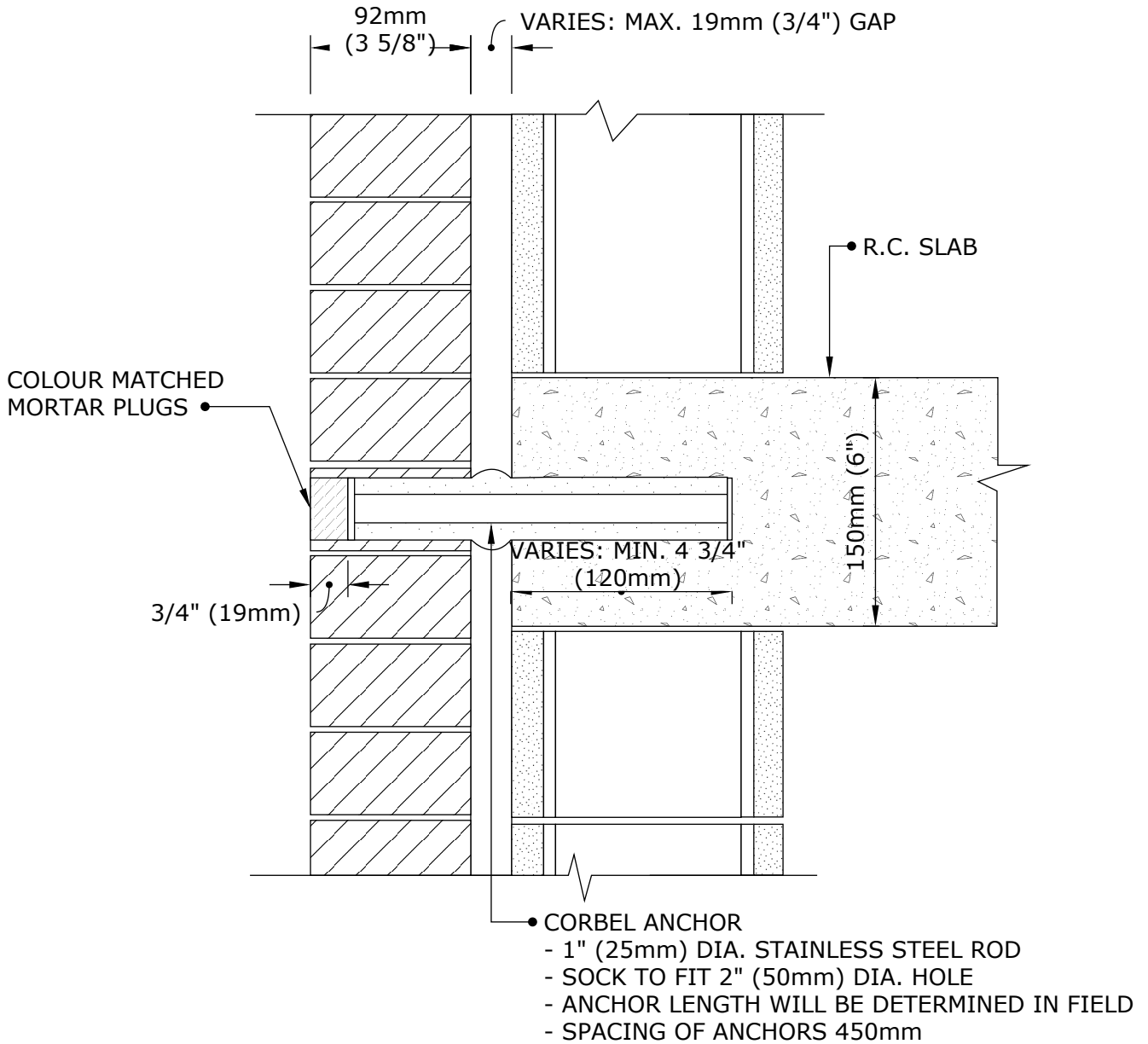
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Drawing Title:

**MASONRY
 STABILIZATION
 CORBEL ANCHOR**



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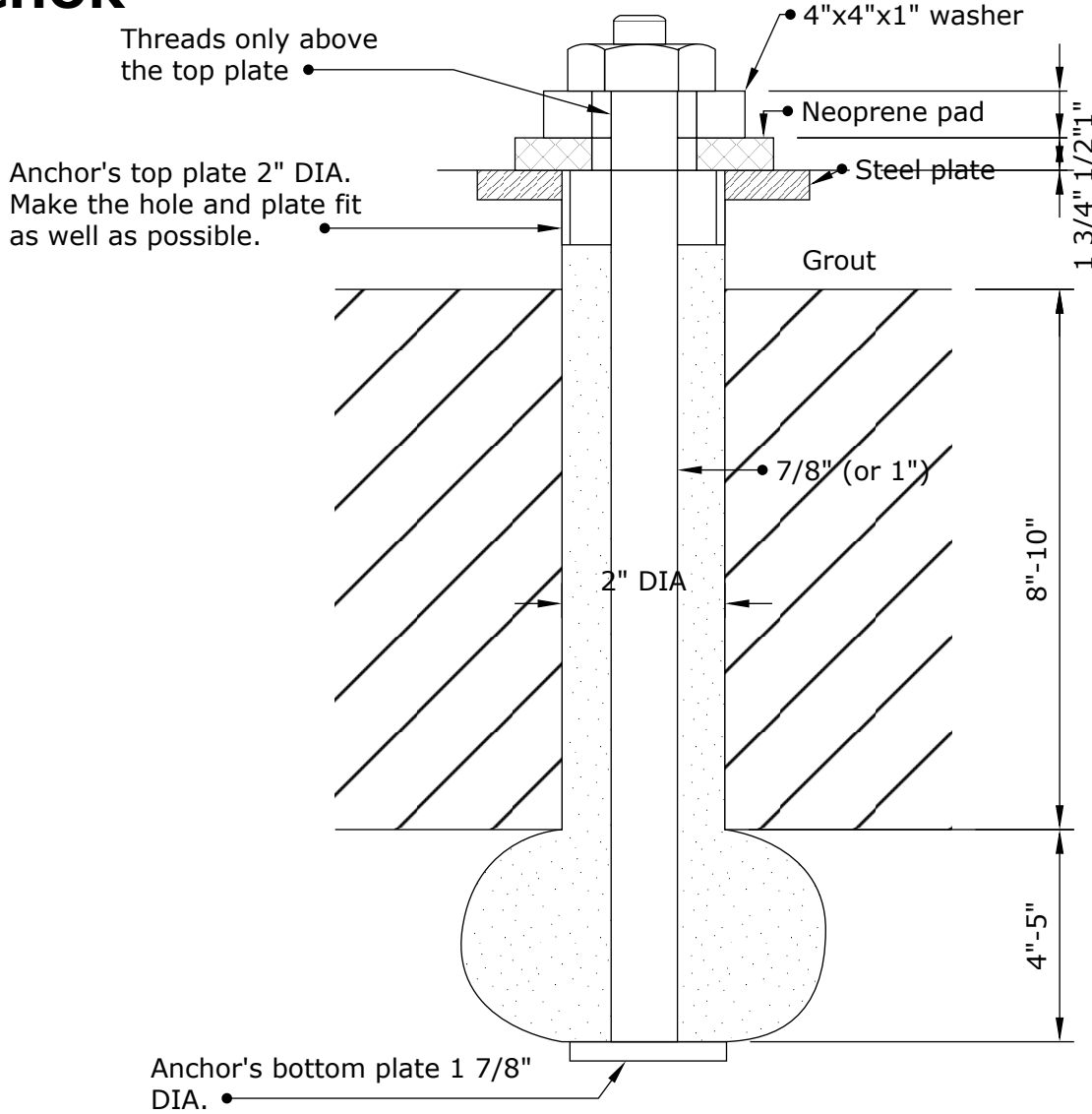
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CORBEL ANCHOR



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CINTEC M25 (1") / M22 (7/8") STAINLESS STEEL ANCHOR



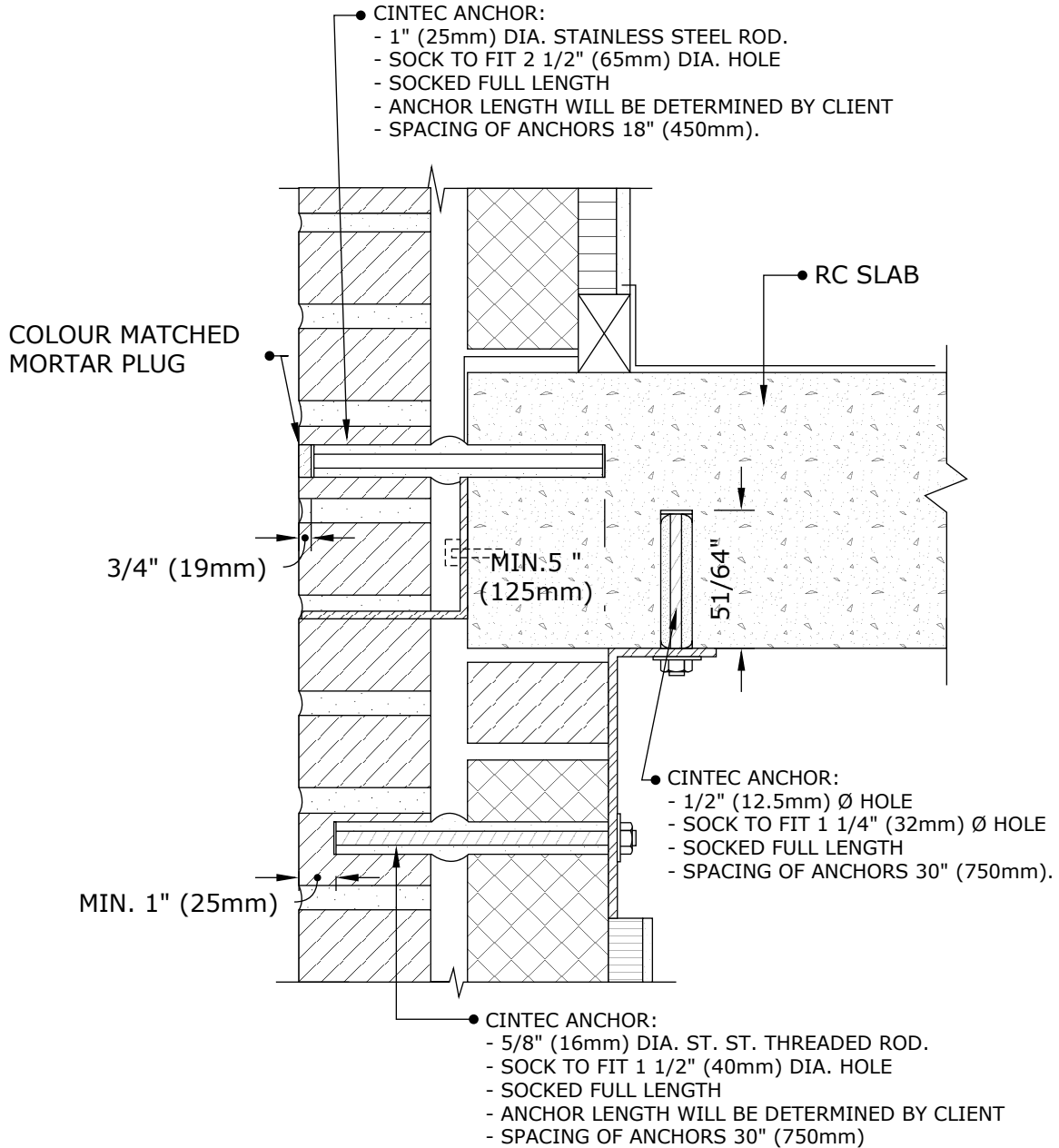
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Drawing Title:

PUMP ANCHOR



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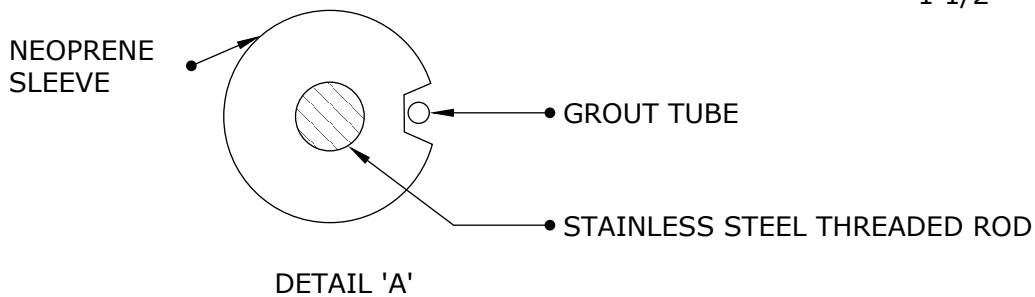
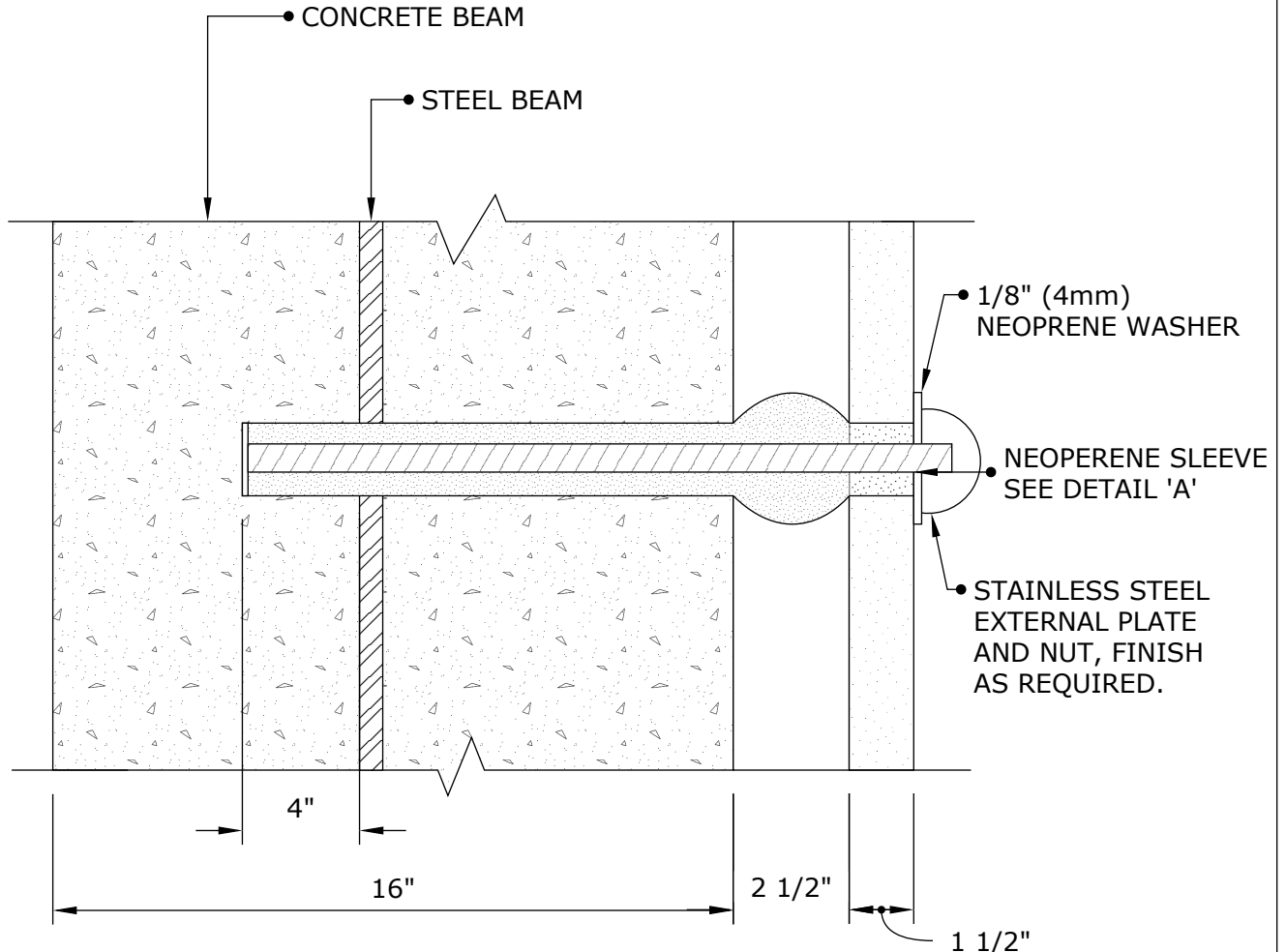
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Drawing Title:

**BRICK PANEL
 STABILIZATION
 ANCHORS**



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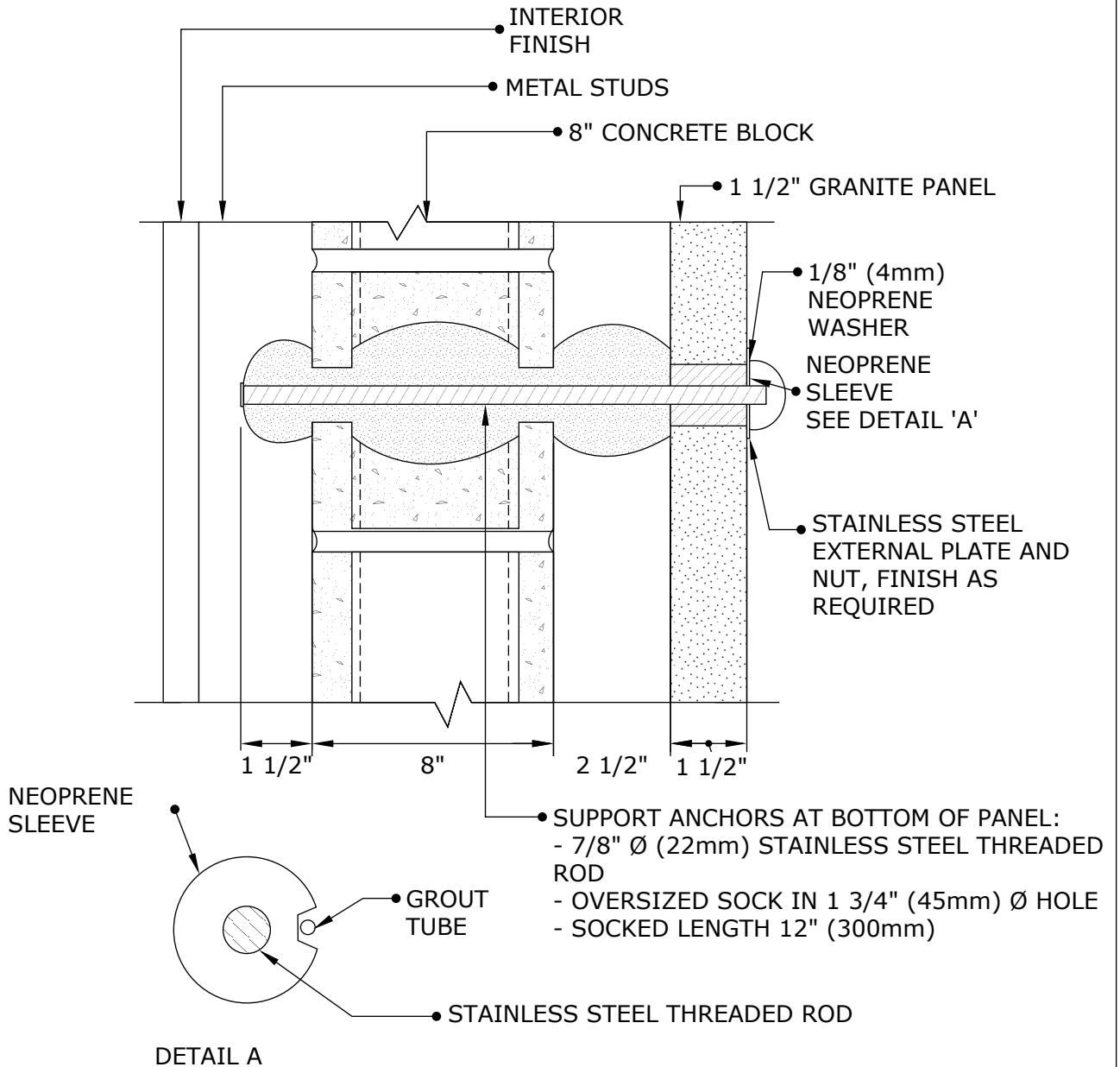
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Drawing Title:

**PANEL SUPPORT
 ANCHOR IN CONCRETE
 BEAM**



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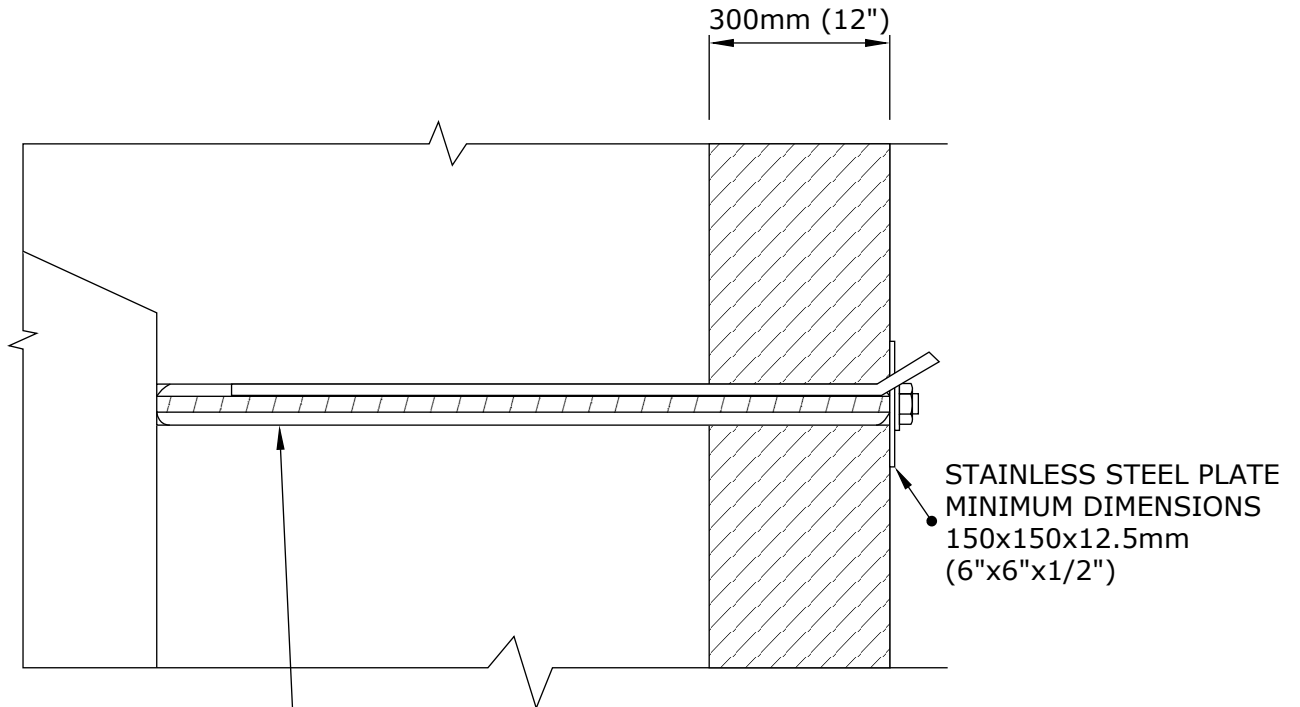
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Drawing Title:

PANEL SUPPORT ANCHOR IN CONCRETE BLOCK



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- CINTEC ANCHOR:
 - 36mm (1 3/8") DIA. STAINLESS STEEL THREADED ROD
 - SOCK TO FIT 72mm (2 3/4") DIA. HOLE
 - SOCKED LENGTH TO BE DETERMINED IN FIELD (TO BE EMBEDDED LENGTH OF STEEL ROD WITHIN WALL)
 - TOTAL ANCHOR LENGTH TO BE CONFIRMED BY CLIENT



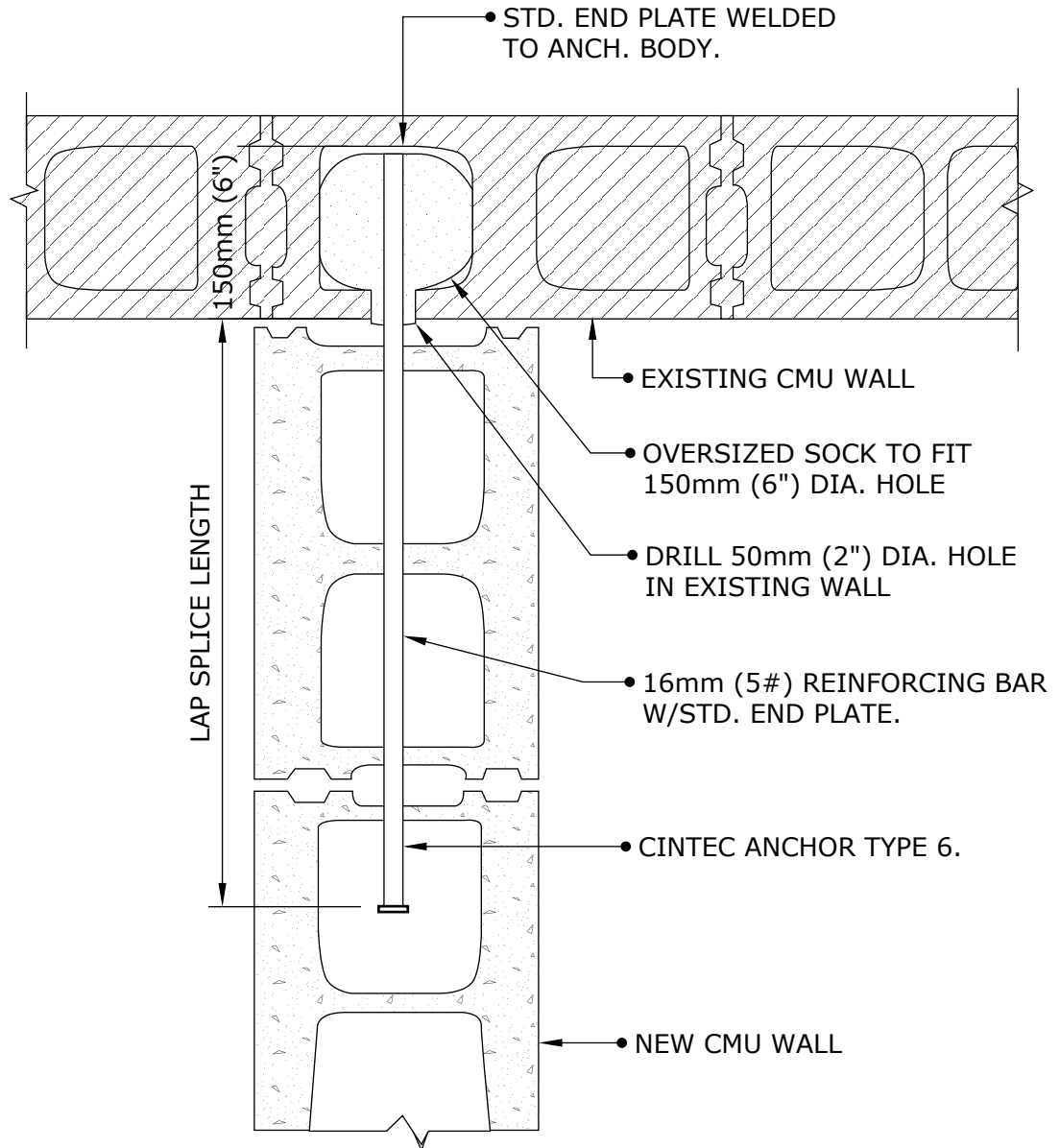
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Drawing Title:

EXTERIOR PLATE



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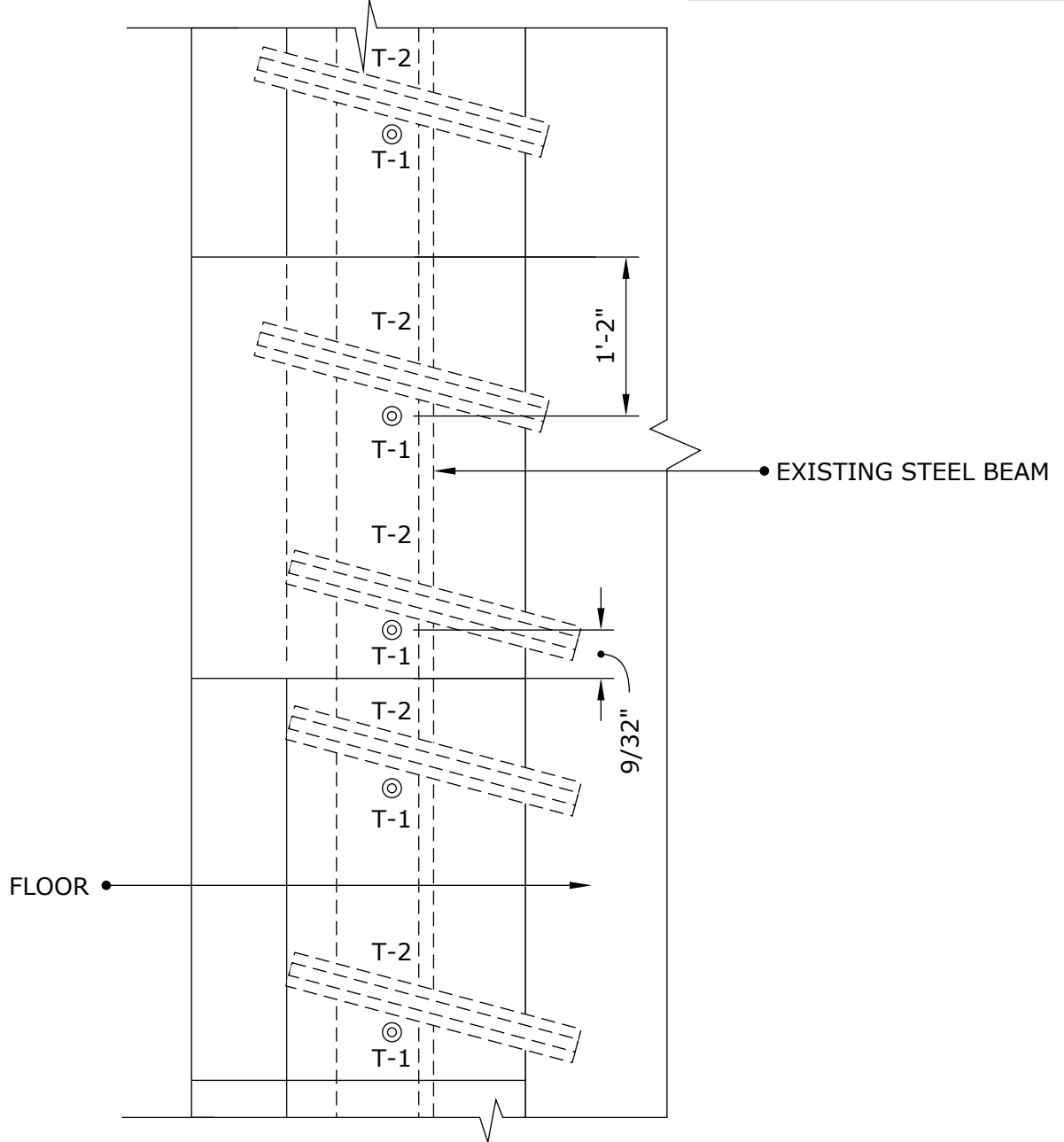
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Drawing Title:

CINTEC ANCHOR



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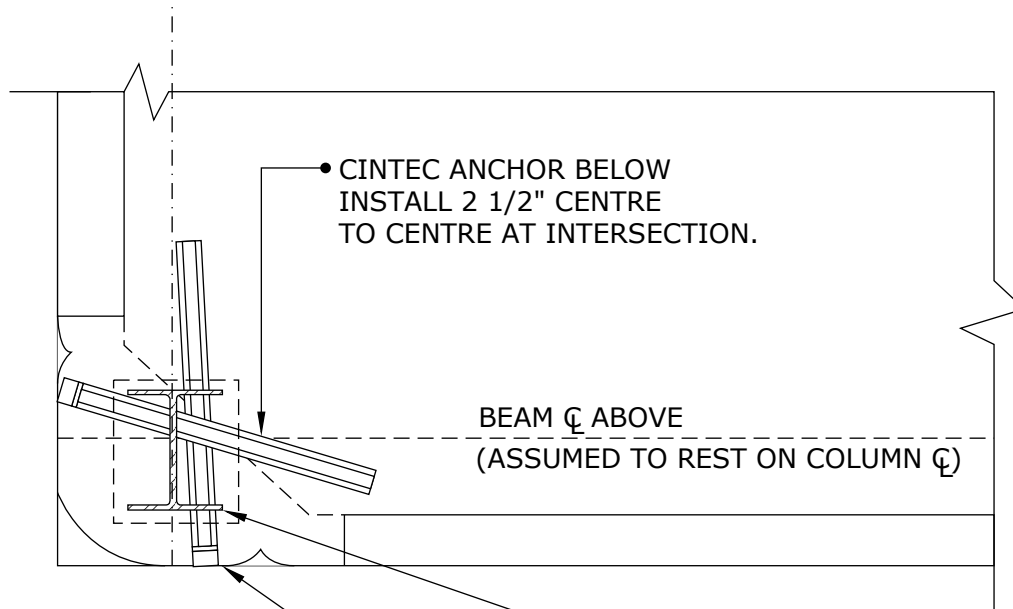
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Drawing Title:

CORNER STONE ANCHORAGE



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• CINTEC ANCHOR BELOW
INSTALL 2 1/2" CENTRE
TO CENTRE AT INTERSECTION.

BEAM \varnothing ABOVE
(ASSUMED TO REST ON COLUMN \varnothing)

- CINTEC ANCHOR:
 - 30mm \varnothing STAINLESS STEEL ROD (1 1/4" \varnothing)
 - 60mm \varnothing HOLE (2 1/2" \varnothing)
 - SOCKED FULL LENGTH

RETAIN AND REINSTALL STONE
PLUG USING EPOXY.
KEEP EPOXY 1/2" BACK FROM
FACE OF STONE AND POINT
ONCE EPOXY IS SET AND CURED,
OR COLOR MATCHED MORTAR PLUG.

NOTES:

1. ORIENTATION OF STEEL COLUMN SHOULD BE DETERMINED PRIOR TO ANCHOR INSTALLATION.
2. IN EACH PAIR OF ANCHORS UPPER ANCHOR SHALL BE INSTALLED THROUGH BOTH COLUMN FLANGES.



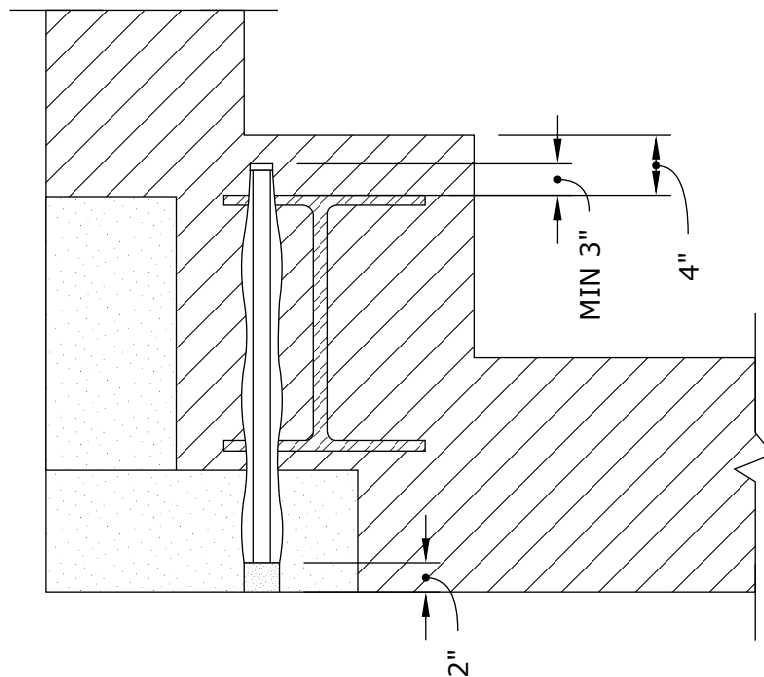
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Drawing Title:

**CORNER STONE
ANCHORAGE**



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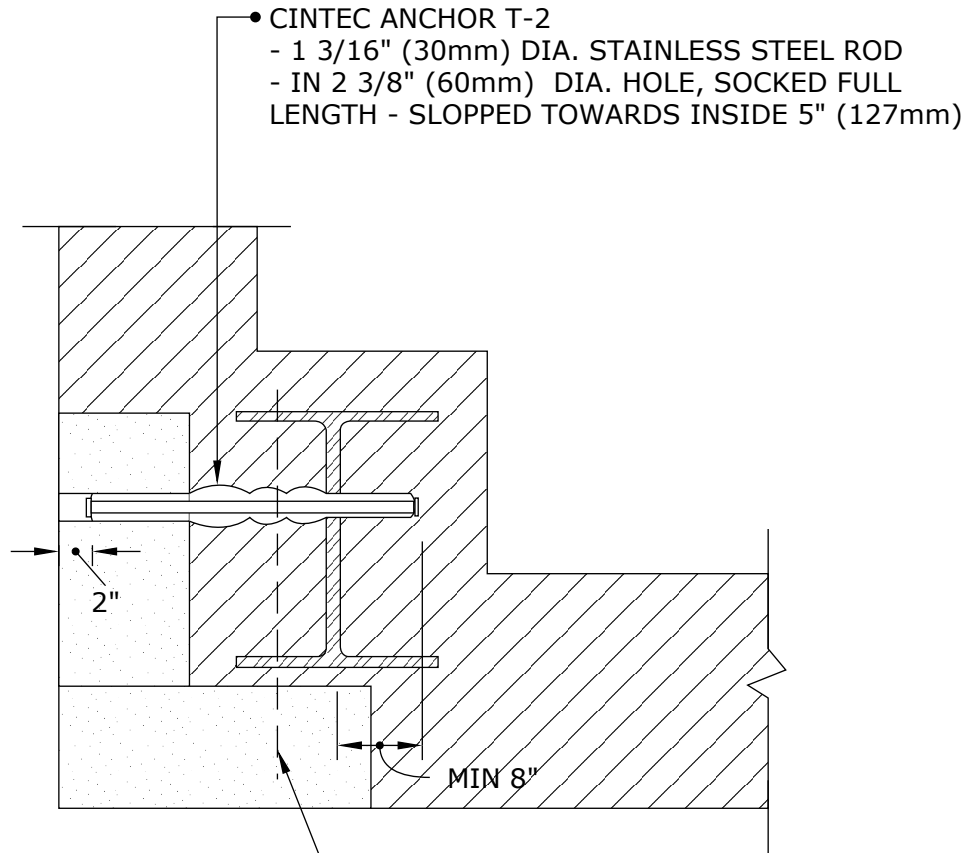
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CORNER STONE ANCHORAGE



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• ANCHOR T-1 BELOW.
ALLOW 2 1/2" CENTER TO CENTER
BETWEEN ANCHORS AT INTERSECTION.



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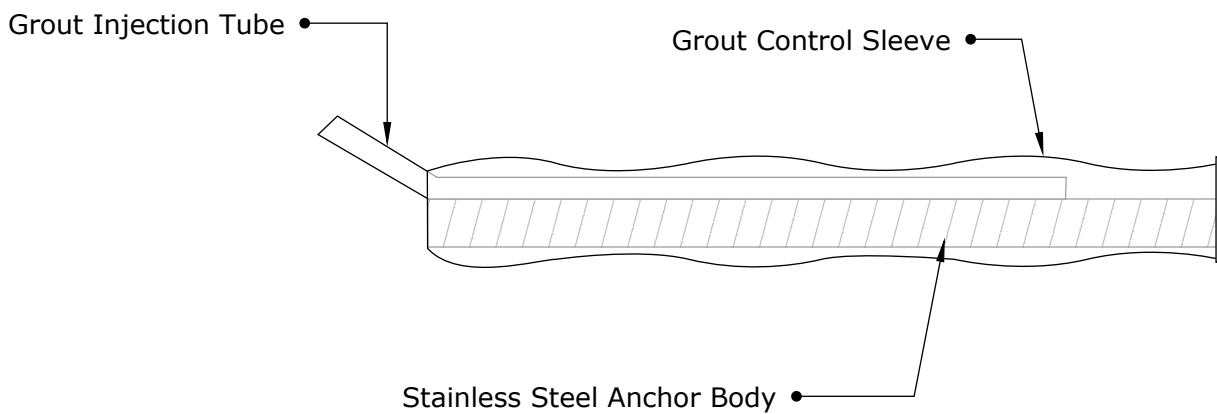
Drawing Title:

**CORNER STONE
ANCHORAGE**



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TYPICAL CINTEC REINFORCEMENT ANCHOR Cintec Stainless steel Anchor #7 Rebar



ANCHOR BODY	SOCK	CORE HOLE SIZE
SS Type 2205 #7 Rebar Anchor Body	Full length of Anchor Body	To suit site conditions

All CINTEC anchors are comprised of a structural member surrounded by a fabric sleeve into which Presstec grout is injected. Stainless steel sizes/sections & lengths, sleeve sizes & end conditions vary in accordance with specific design.

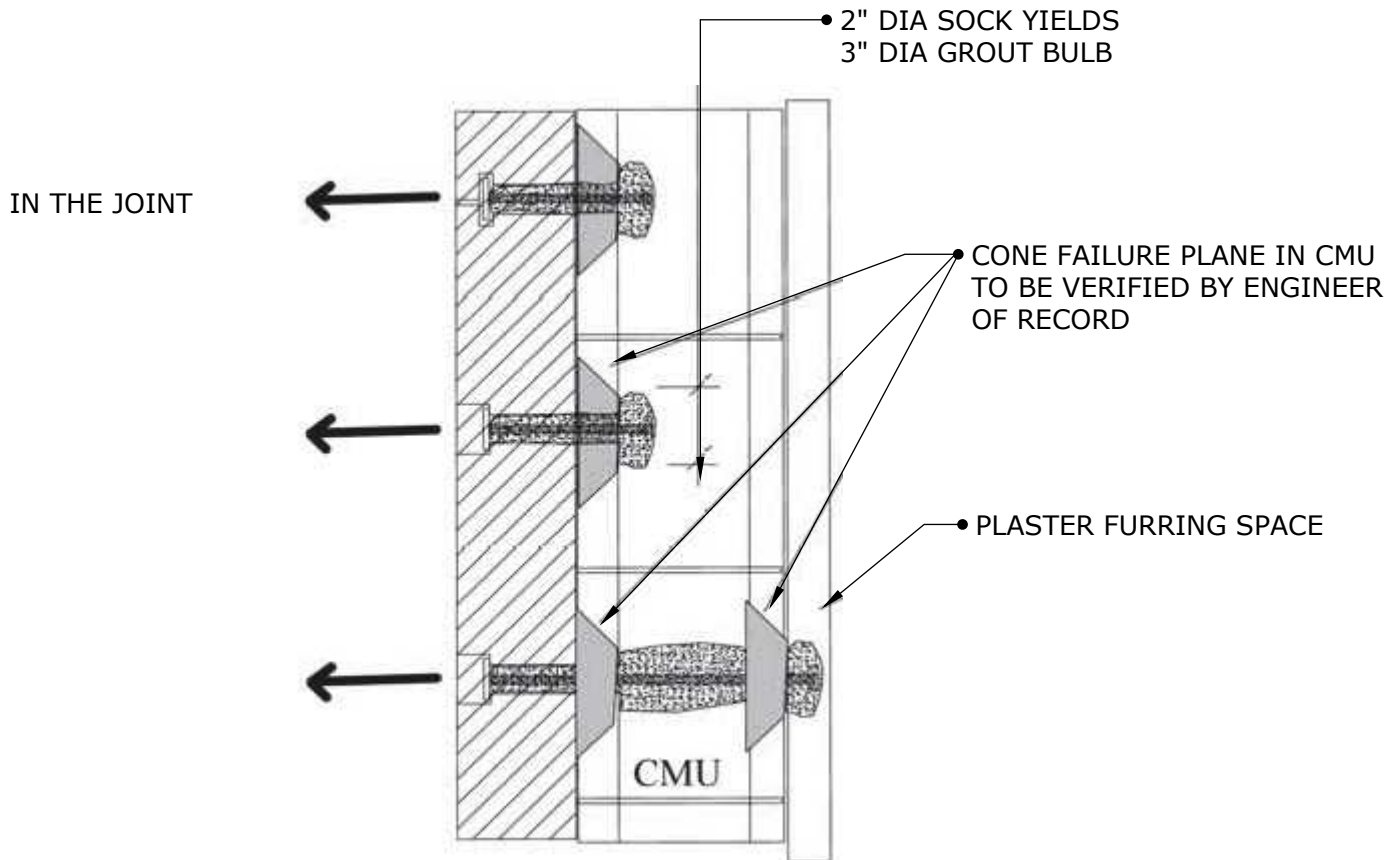
ANCHOR LENGTH TO SUIT SITE CONDITIONS
Client to confirm ALL lengths before ordering.

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CINTEC ANCHOR TO ATTACH BRICK/STONE TO HOLLOW MASONRY UNIT (CMU)



ANCHOR LENGTH TO SUIT SITE CONDITIONS
Client to confirm ALL lengths before ordering.

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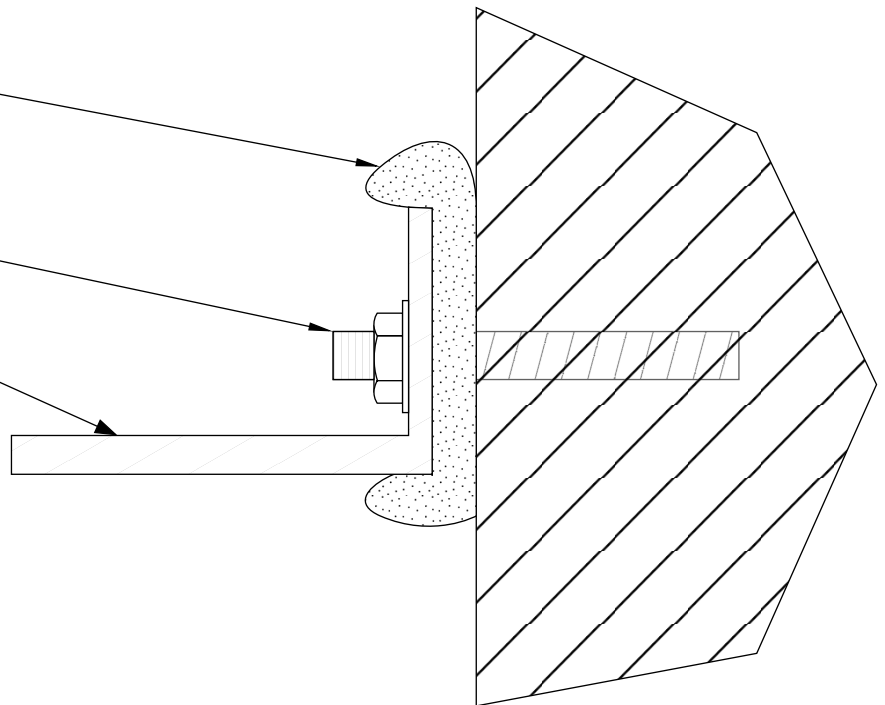


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CINTEC ANTI ROTATION PILLOW

3" WIDE X 6" LONG
CINTEC ANTI-ROTATION
PILLOW
INJECT WITH PRESSTEC
GROUT BY CINTEC
PILLOW TO BE PLACED
BETWEEN EXISTING ANCHORS

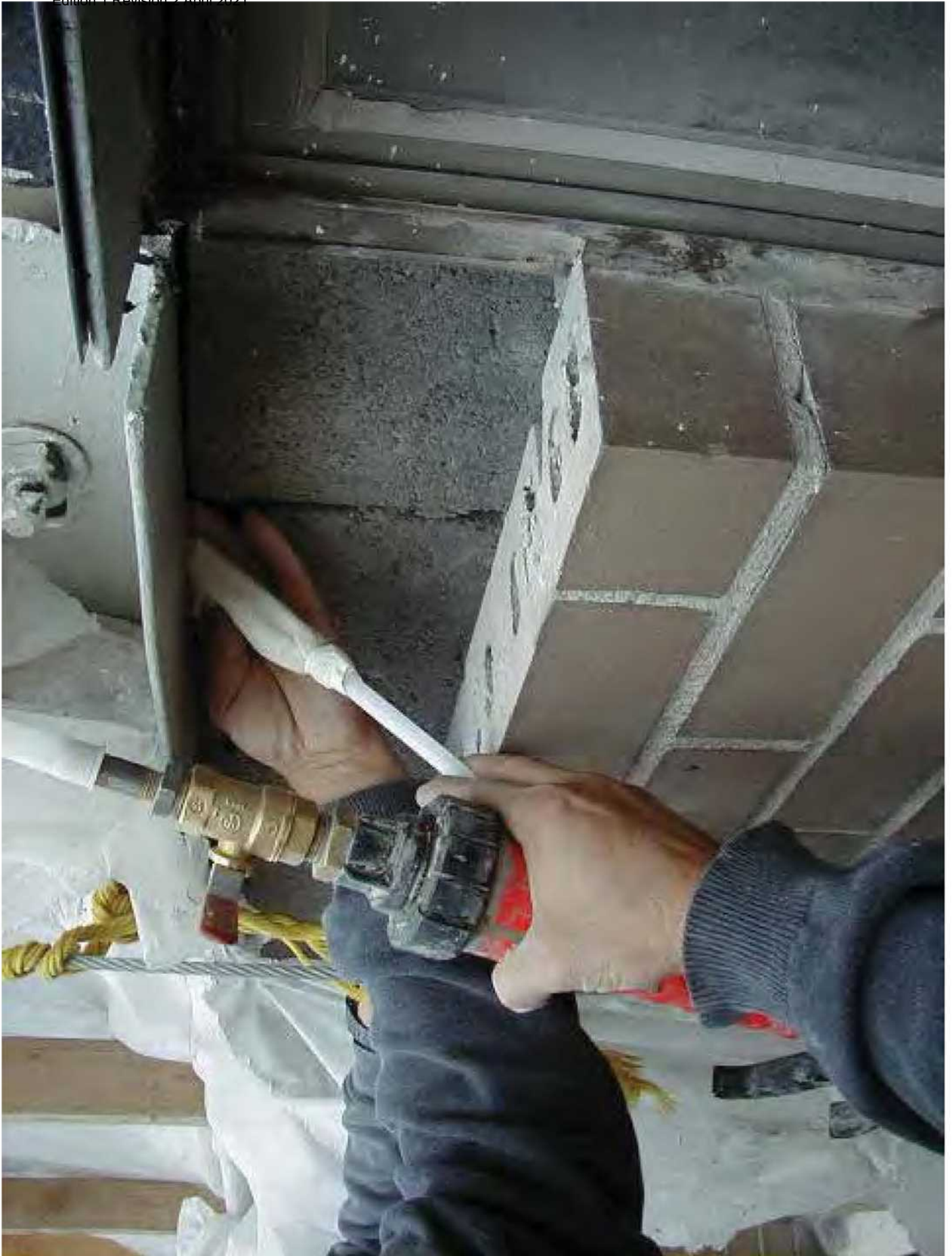
EXISTING SHELF ANGLE
AND ANCHORS

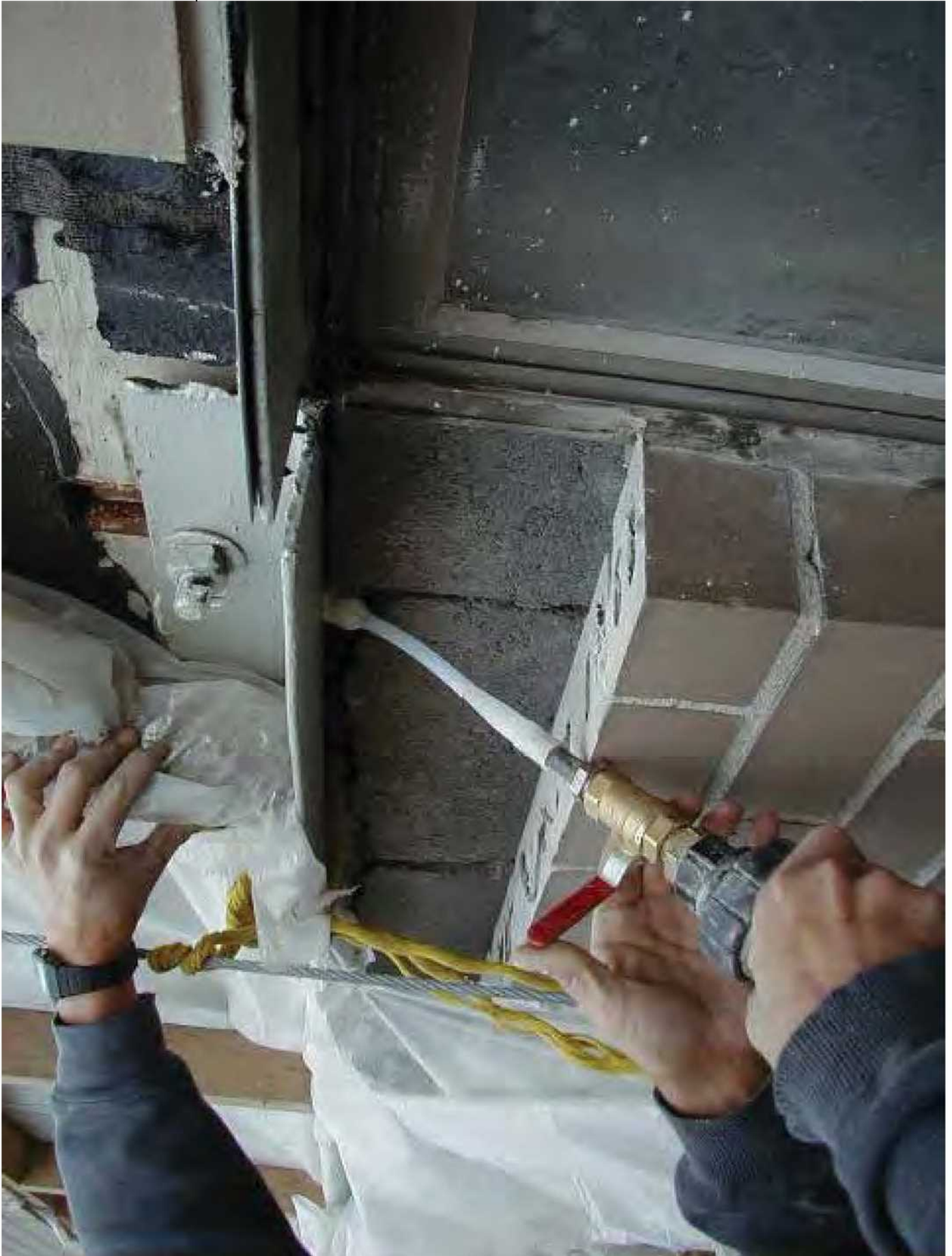


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Drawing Title:

**CINTEC ANTI ROTATION
PILLOW**













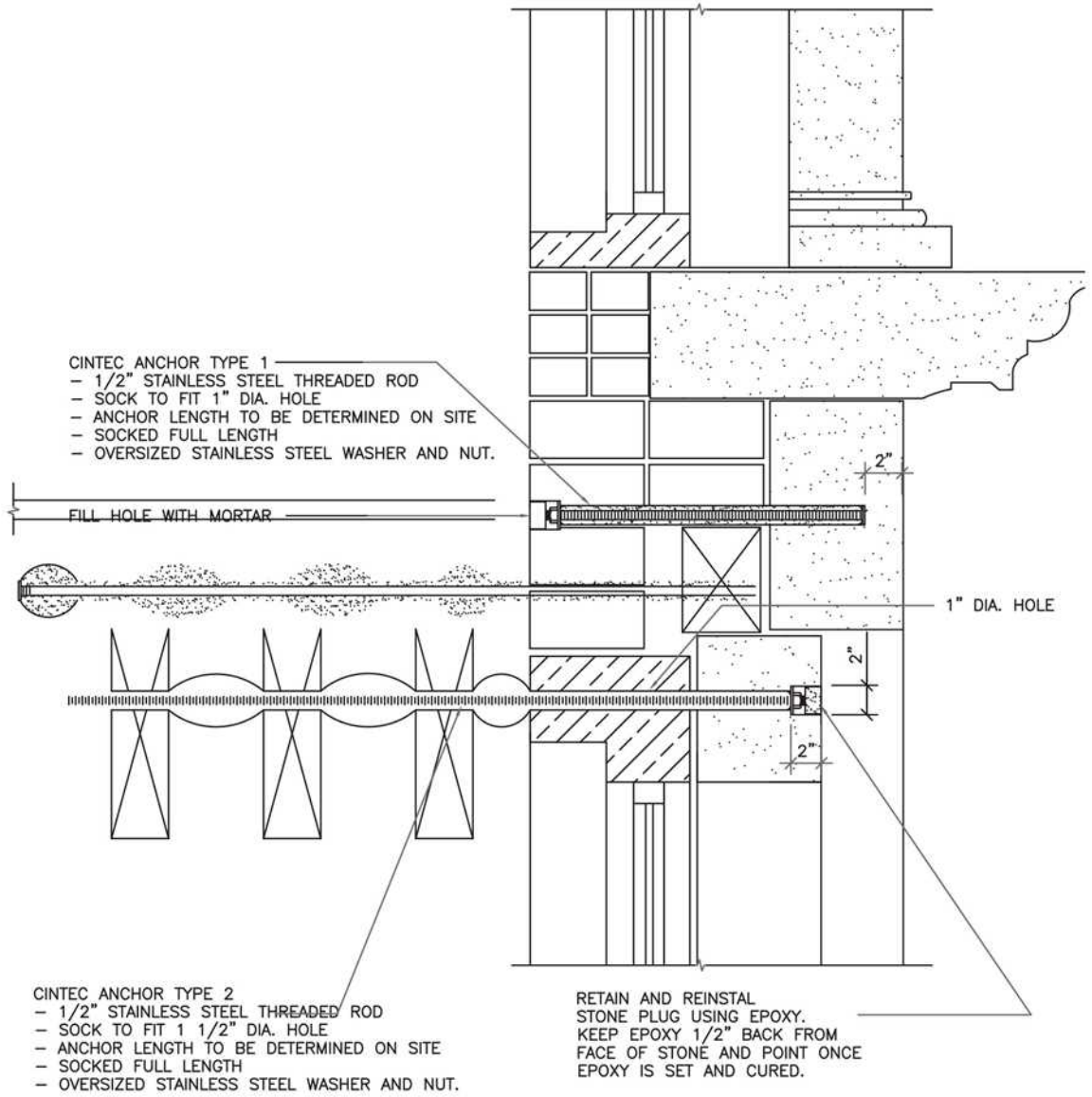
Facade of Building to wood floor diaphragm stabilization

CINTEC
REINFORCEMENT SYSTEMS



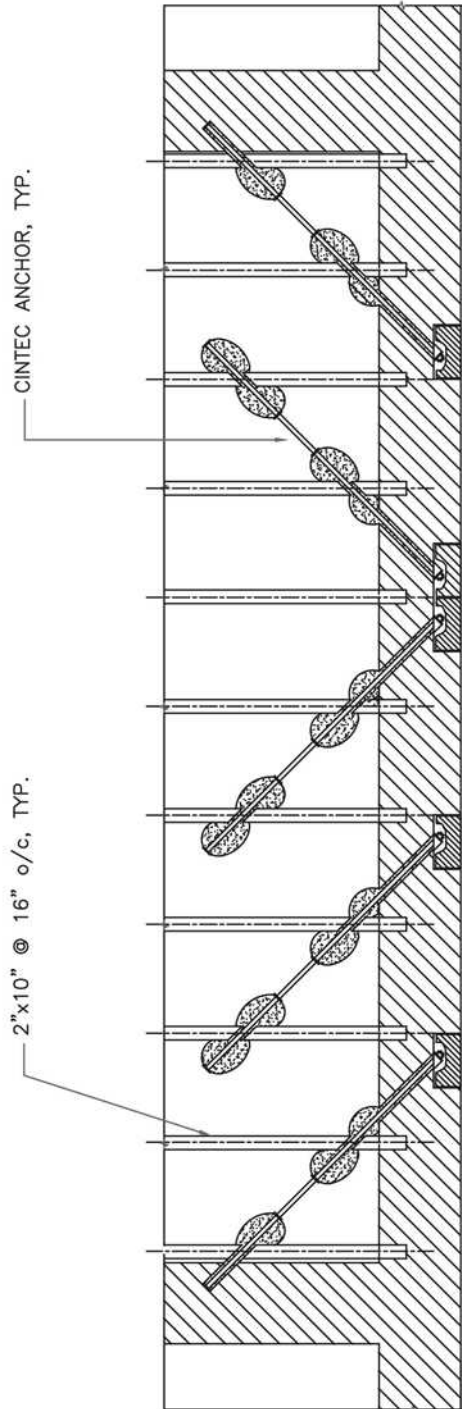
This five storey apartment block required the securing of its brick walls to each of its wooden floors. Cintec 5/8 inch diameter M16 solid bar anchors of 4ft 3inch in length were installed at an angle of 45°. Protruding beyond the underside of the wooden floor beams enabled the inflated anchor to expand beyond the width of the drill hole to form a highly secure stopper locking together the various structural elements.

PROJECT DATA:
 LOCATION: GENERIC
 SUBSTRATE: BRICK WOOD
 ANCHOR TYPE: SRT STONE
 PRINCIPAL LOAD (FORCES) :
 COMBINED



Engineered Grout Injection Anchors by:
CINTEC Structural Solutions
 Tel: 1-410-761-0765
 1-613-225-3381
 Fax: 1-613-224-9042
 E-mail: solutions@cintec.com

Drawing Title:
CINTEC M10 STAINLESS STEEL ANCHOR



FLOOR JOIST PARTIAL PLAN

PROJECT DATA:
LOCATION:GENERIC
SUBSTRATE: STONE WOOD
ANCHOR TYPE: SRT WOOD
JOIST TIE
PRINCIPAL LOAD (FORCES) :
TENSION

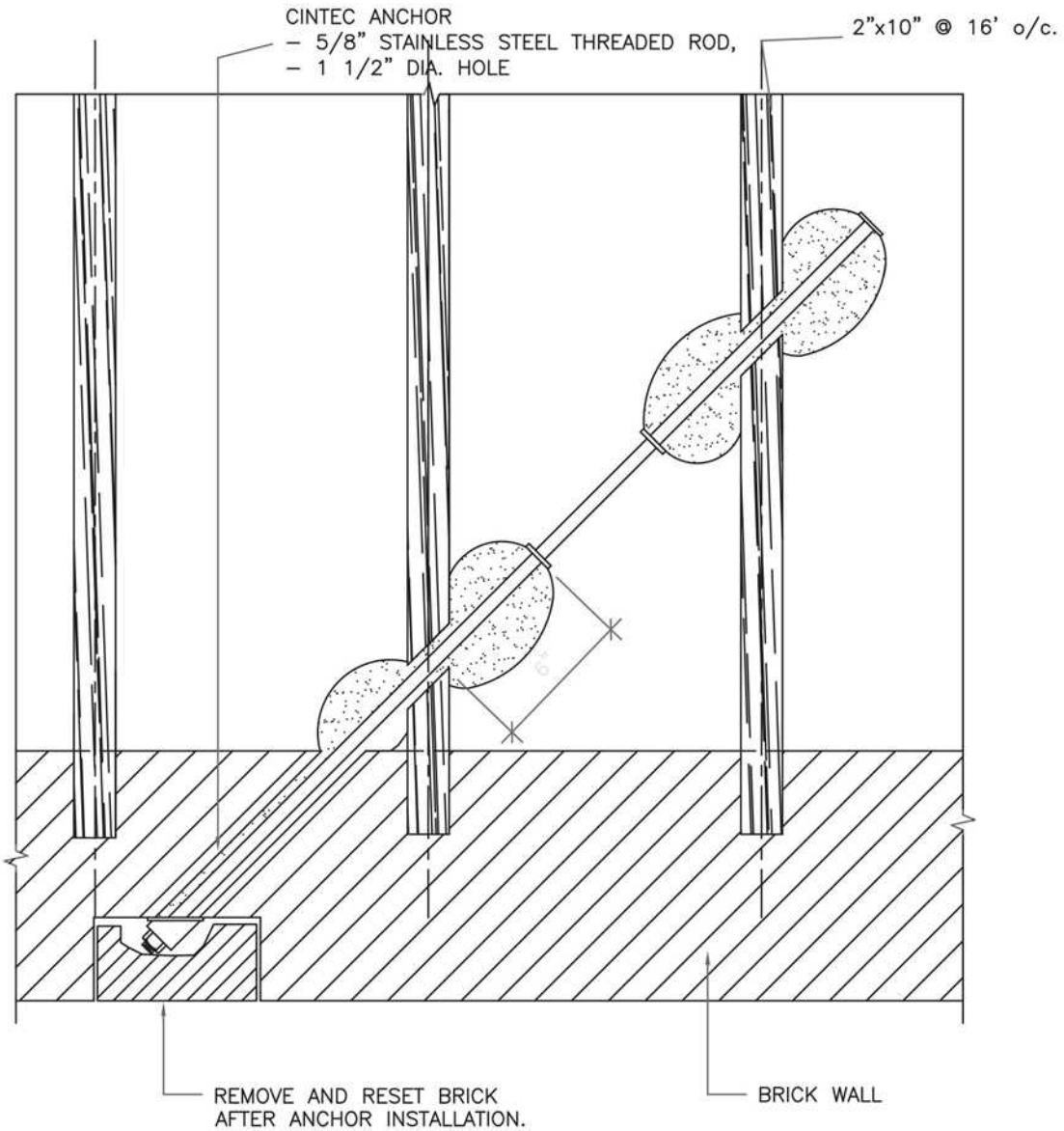


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Drawing Title:

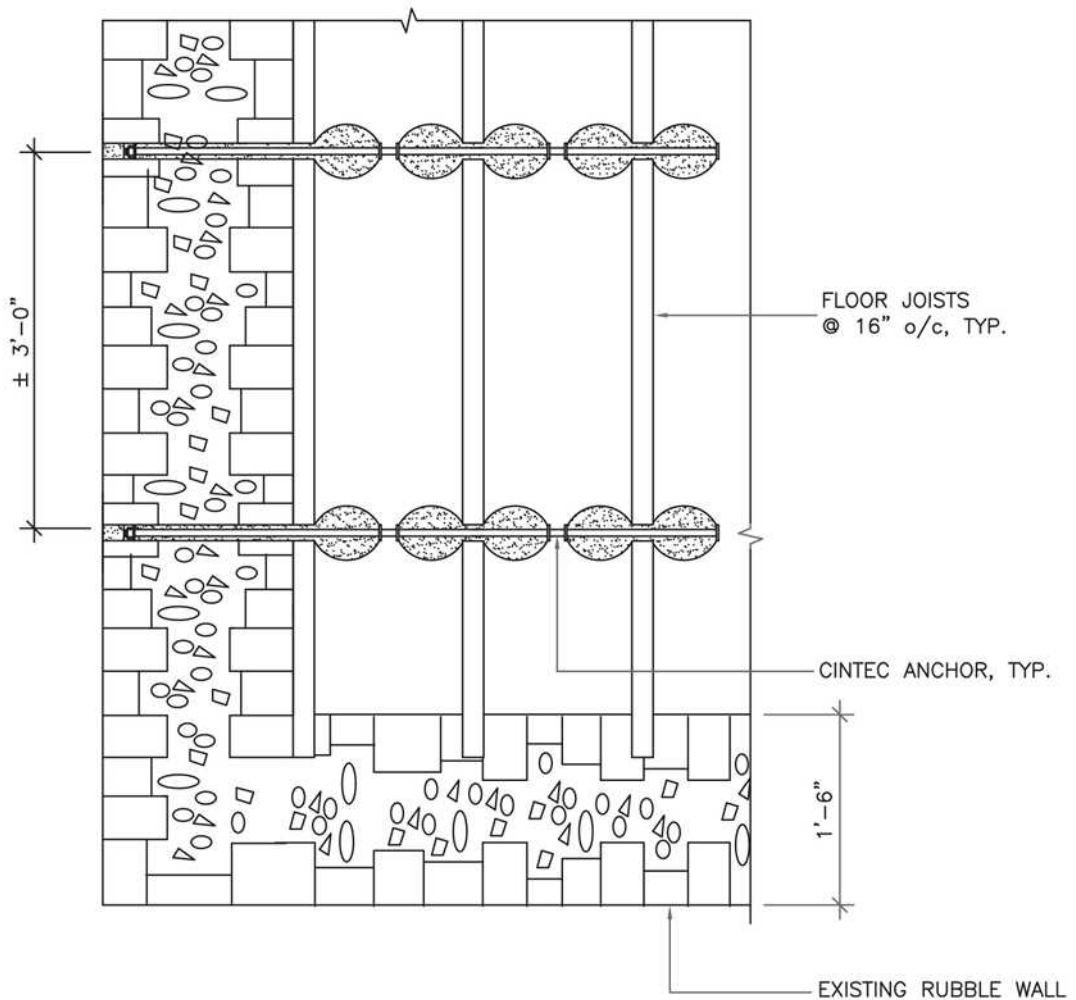
**CINTEC M10 STAINLESS
STEEL ANCHOR**

PROJECT DATA:
LOCATION:GENERIC
SUBSTRATE: STONE WOOD
ANCHOR TYPE: SRT WOOD
JOIST TIE
PRINCIPAL LOAD (FORCES) :
TENSION



	<p>Engineered Grout Injection Anchors by: CINTEC Structural Solutions Tel: 1-410-761-0765 1-613-225-3381 Fax: 1-613-224-9042 E-mail: solutions@cintec.com</p>	<p>Drawing Title: CINTEC M10 STAINLESS STEEL ANCHOR</p>
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PROJECT DATA:
LOCATION:GENERIC
SUBSTRATE: STONE WOOD
ANCHOR TYPE: SRT WOOD
JOIST TIE
PRINCIPAL LOAD (FORCES) :
TENSION



FLOOR JOIST PARTIAL PLAN

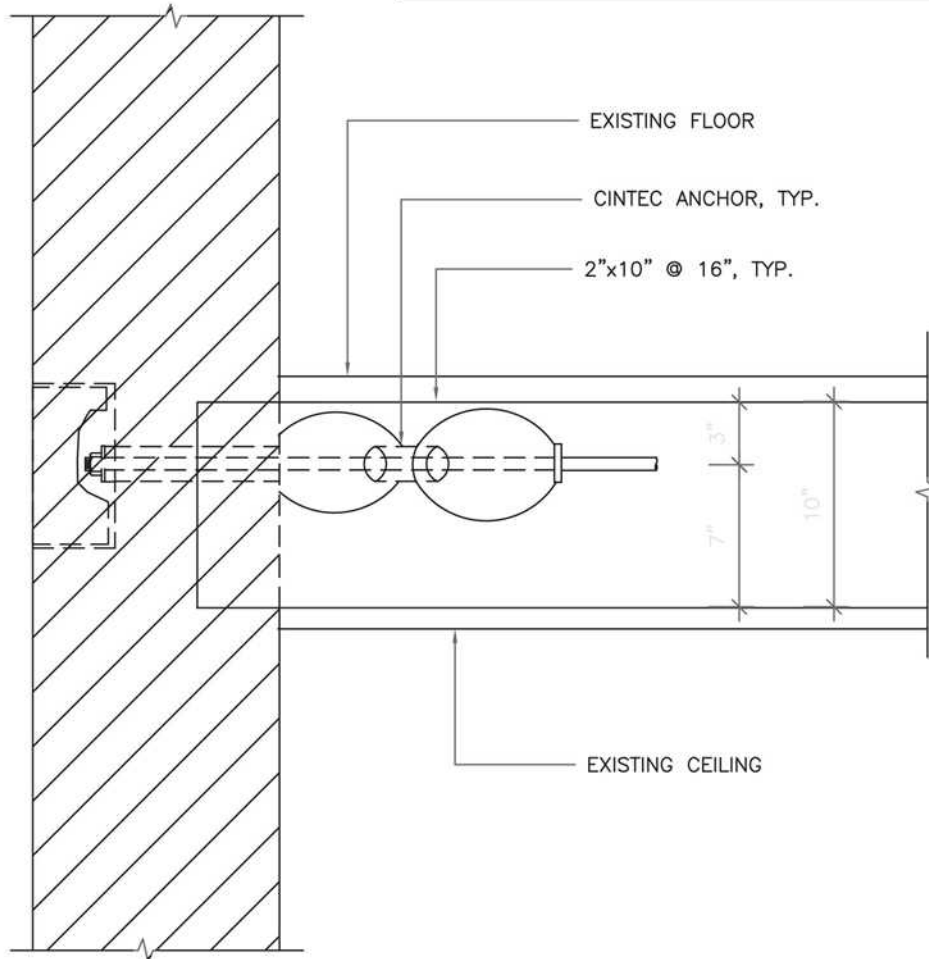


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Drawing Title:

**CINTEC M10 STAINLESS
STEEL ANCHOR**

PROJECT DATA:
LOCATION:GENERIC
SUBSTRATE: STONE WOOD
ANCHOR TYPE: SRT WOOD
JOIST TIE
PRINCIPAL LOAD (FORCES) :
TENSION



SECTION



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Drawing Title:

**CINTEC M10 STAINLESS
STEEL ANCHOR**



Cintec's approach to stabilizing
a typical Historic Masonry Arch



Terms of Reference

CINTEC was requested by the Client to recommend a solution for structural deficiencies in the Arch.

The Client provided photos of the arch in its as-found condition, taken September 09, 2001..

The Problem

The load bearing structure of the arch displays typical symptoms of masonry deterioration. This includes visible cracking in main elements.

This damage was likely caused by deterioration of mortar joints, water infiltration, movements in foundations and settlement in the masonry core of the structure.

A large-scale restoration of the Arc de Triomphe in Paris was carried out recently, to address similar problems.

The Standard Solution

Standard conservation practice would require dismantling of damaged elements of the structure and replacement with new material. In this case this may require dismantling fairly large areas of the facing of the arch.

This is a costly process and very intrusive to the historic fabric of the structure. The new materials will not match exactly the original materials, and will be quite visible for sometime after the repairs until atmospheric pollution creates a patina on the surface of the new material.

The Solution

Good heritage conservation practice requires that minimum intervention in the structure should be the first guiding principle in selecting a preservation approach.

CINTEC proposes a solution that requires no or very limited replacement of the original masonry.

The solution involves stitching together of the deteriorated elements with stainless steel anchors encased in an injected grout retained in a fabric sock.

Dry diamond air-cooled drilling is used to create the holes for anchor insertion. This eliminates the need to pump additional water into the structure, which typically occurs with wet diamond drilling.

The grout is a natural product, with high resistance to fire and freeze-thaw damage.



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Photo 020 - Sept 09, 2001

Case 1: Cross Wythe Stitching Repair

Anchor specification 3/8" (10mm) Ø hollow circular stainless steel CINTEC anchors with 3/4" (20mm) Ø sock in 3/4" (20mm) Ø hole. Plain ends.
Anchor spacing: 12" cts. Around opening.
Diamond 5 pattern elsewhere @ 36" cts.



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Drawing Title:

**CROSS WYTHE
STITCHING REPAIR**



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Photo 001 - Sept. 09, 2001

Case 2: Brick Stitching Repair

Anchor specification 3/8" (10mm) Ø hollow circular stainless steel CINTEC anchors with 3/4" (20mm) Ø sock in 3/4" (20mm) Ø hole. Plain ends. Anchor spacing: 16" cts.



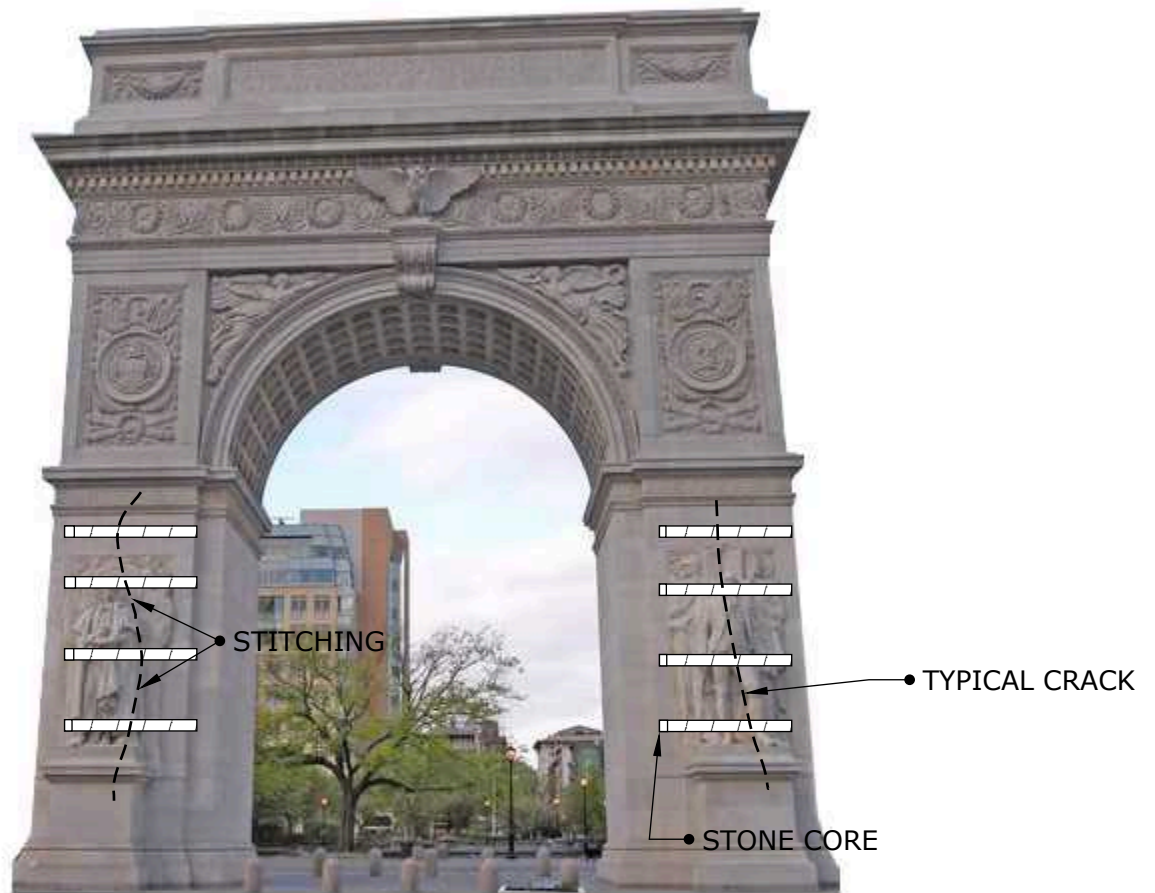
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Drawing Title:

BRICK STITCHING REPAIR



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Case 3: Stone Corner Stitching Repair

Anchor specification: 3/4" (20mm) Ø solid threaded steel CINTEC anchors with 2 1/2" (65mm) Ø sock in 2 1/2"(65mm) Ø hole 30" past crack. Plain ends. Anchor spacing: 48" cts. vertical.



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Drawing Title:

**STONE CORNER
STITCHING REPAIR**



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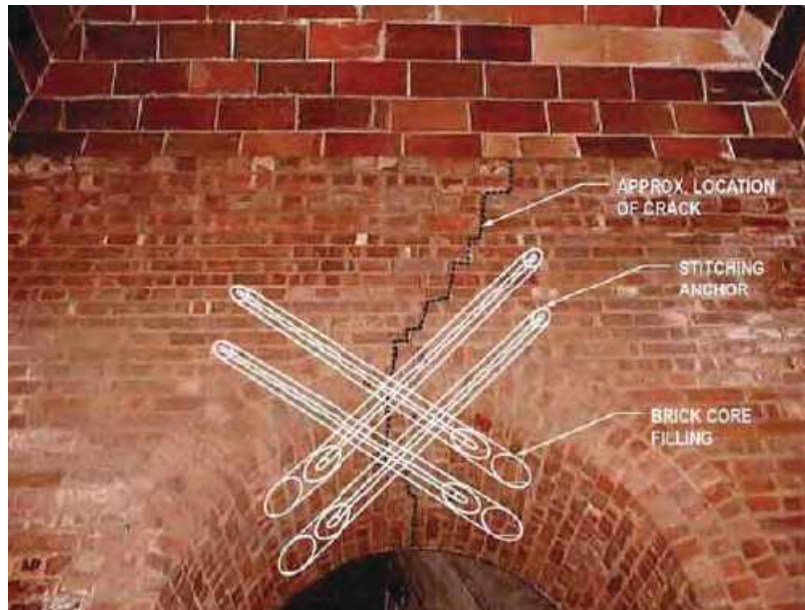


Photo 006 - Sept. 09, 2001

Case 4: Arch stitching

Anchor specification: 5/8" (16mm) Ø solid threaded stainless steel CINTEC anchors with 2" (50mm) Ø sock in 2" (50mm) Ø hole. Plain ends.
4 anchors per arch.

	<p>Engineered Grout Injection Anchors by: Cintec Reinforcement Systems Tel: 1-410-761-0765 1-613-225-3381 Fax: 1-613-224-9042 E-mail: solutions@cintec.com</p>	<p>Drawing Title: ARCH STITCHING</p>
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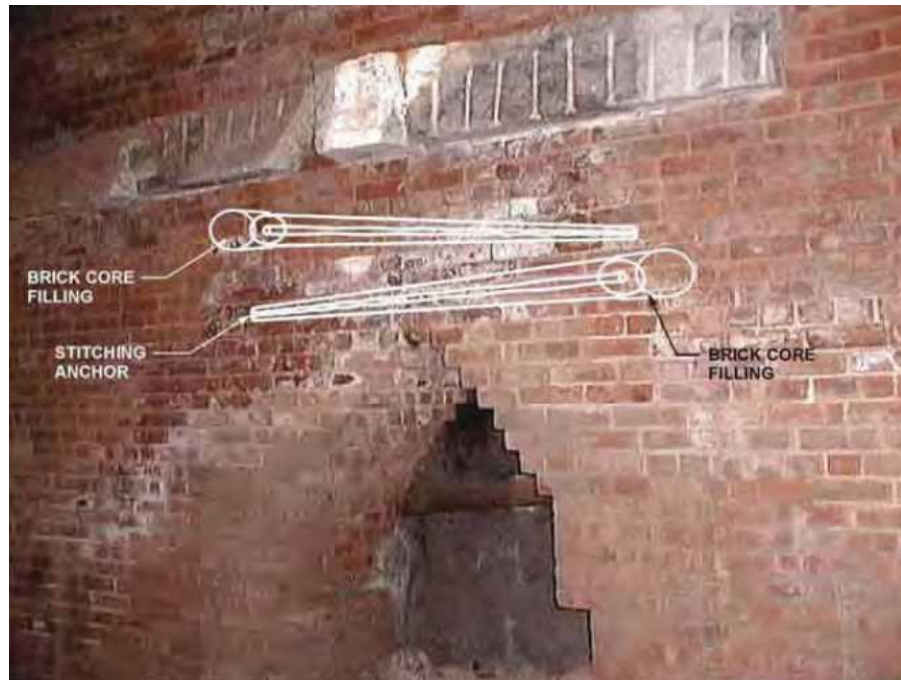


Photo 004 - Sept. 09, 2001

Case 5:

Arch Cross Stitching

Anchor specification: 5/8" (16mm) Ø solid threaded stainless steel CINTEC anchors with 2" (50mm) Ø sock in 2" (50mm) Ø hole.

Install horizontally @ 20° to wall face.

2 or 4 anchors per arch.



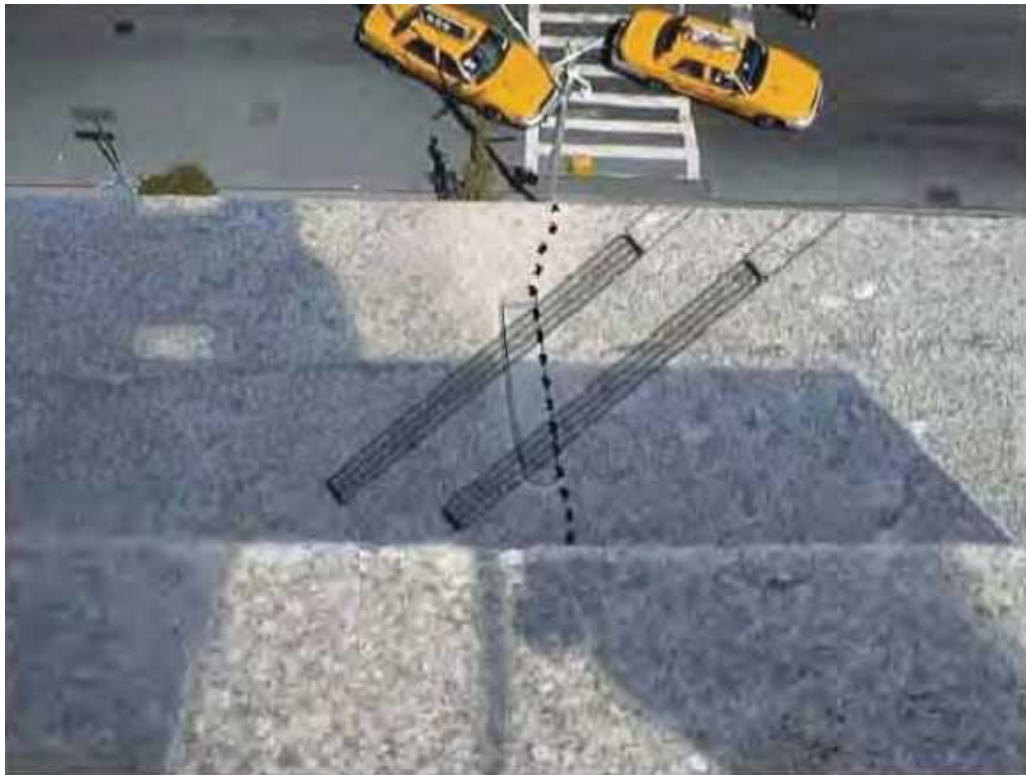
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Drawing Title:

ARCH CROSS STITCHING



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Case 6:

Stone Repair

Anchor specification: 3/8" (10mm) Ø hollow circular stainless steel CINTEC anchors with 3/4" (20mm) Ø sock in 3/4" (20mm) Ø hole.
Install horizontally @ 20° to wall face.
2 anchors per crack.



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Drawing Title:

STONE REPAIR



Structural Reinforcement Anchor Systems



DESIGNED ANCHOR SOLUTIONS



CINTEC

REINFORCEMENT SYSTEMS

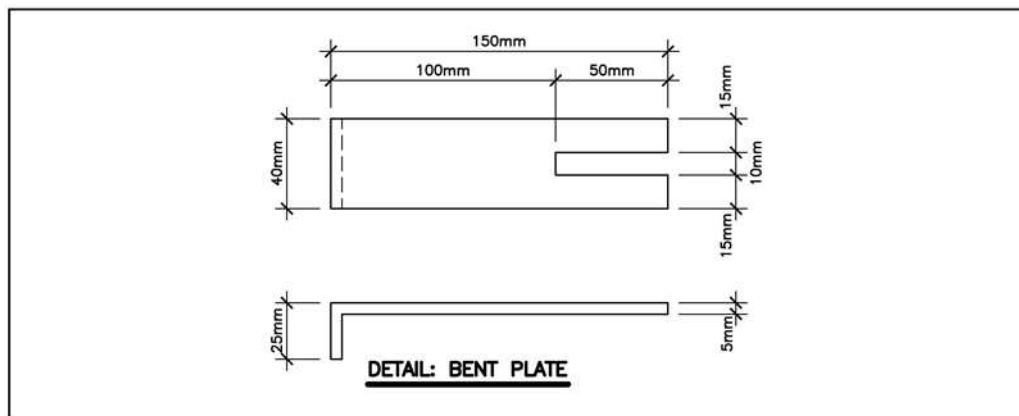
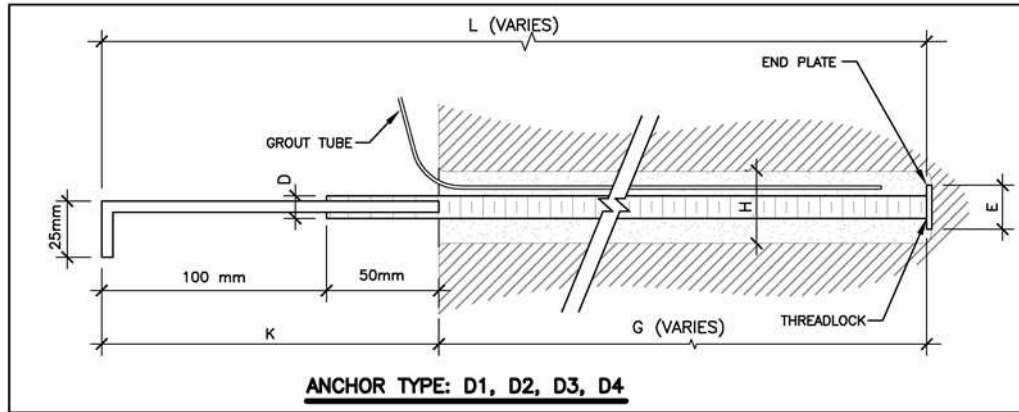
PROJECT SPECIFIC SHOP DRAWINGS / CUT SHEETS



All CINTEC anchors are comprised of a structural member surrounded by a fabric sleeve into which Presstec grout is injected. Stainless steel sizes/sections & lengths, sleeve sizes & end conditions vary in accordance with specific design.



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	D		H		L	G	K	E			
Anchor Type	Anchor Dia	Description	Hole Dia	Socket Dia	Overall Anchor Length	Anchor Socked Length	Exposed with Plate	End Plate	Hardware	Load	Qty
D1	10 mm	S/S Threaded Rod	1½"	40 mm	1200mm	1050 mm	150 mm	25mm OD	Bent Plate	3 Kn	8
D2	10 mm	S/S Threaded Rod	1½"	40 mm	1450mm	1300 mm	150 mm	25mm OD	Bent Plate	3 Kn	118
D3	10 mm	S/S Threaded Rod	1¼"	32 mm	500mm	350 mm	150 mm	20mm OD	Bent Plate	3 Kn	1220
D4	10 mm	S/S Threaded Rod	1¼"	32 mm	850mm	700 mm	150 mm	20mm OD	Bent Plate	3 Kn	54

ALL METAL:
STAINLESS STEEL TO ANSI TYPE S
304 CONFIRM DIMENSIONS ON SITE
PRIOR TO FABRICATION

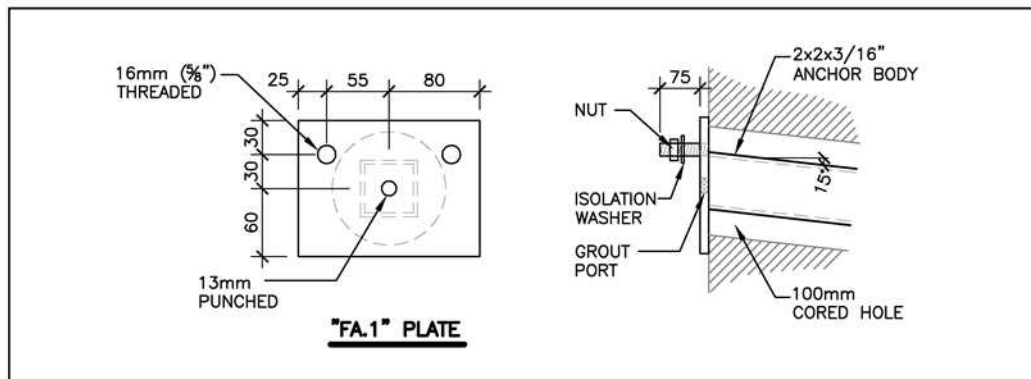
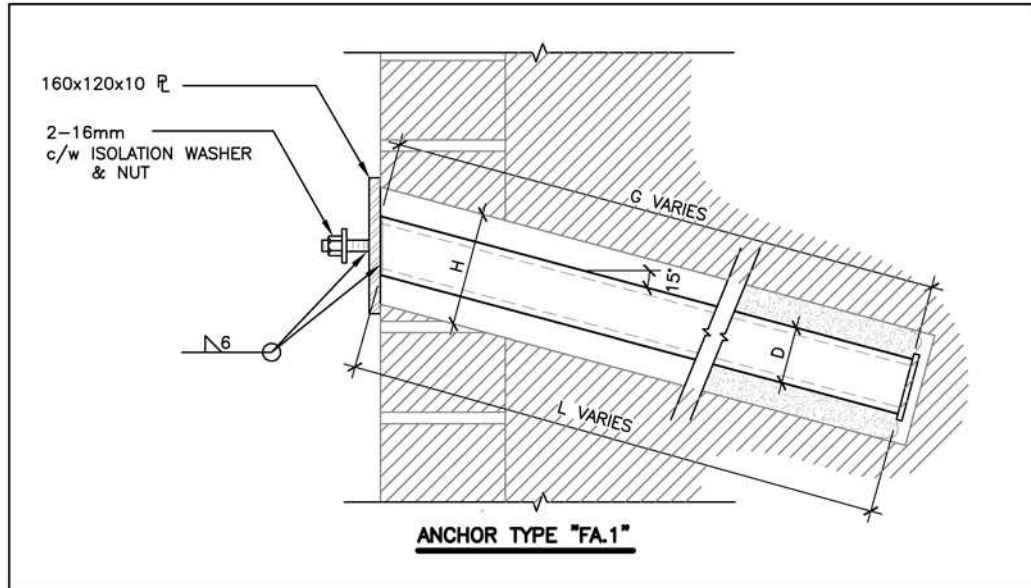


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Drawing Title:
Parliament Buildings



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	D	H	L	G		
Anchor Type	Anchor Dia	Hole Dia	Overall Anchor Length	Grouted Length	Hardware	Qty
FA.1	HSS 2x2x3/16"	4"	600 mm	600 mm	PI 160 x120 x10	TBD

ALL METAL:
STAINLESS STEEL TO ANSI TYPE S
304 CONFIRM DIMENSIONS ON SITE
PRIOR TO FABRICATION



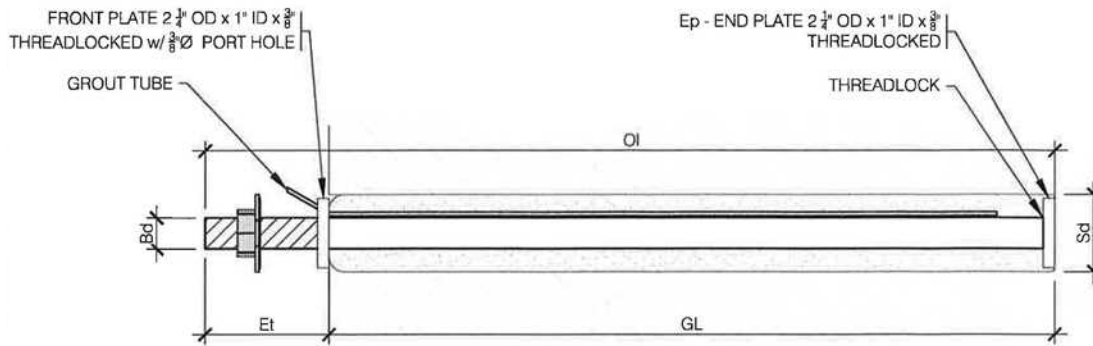
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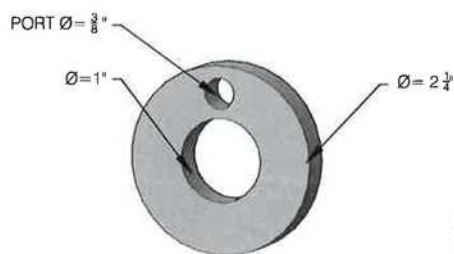


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1 ANCHOR TYPE A1 M25 SRT, GRADE 316
S1 Scale: N.T.S.

ANCHOR TYPE (Stainless Steel)	Bd Body Diameter	OI Overall Length	GL Socked Length	Et Exposed Threads	Hd Drilled Core Hole	Sd Sock Diameter	Nut	Washer	Hardware
A1-M25 Grade 316	1" SRT	700 mm (27 1/2")	600 mm (23 1/2")	100 mm (4")	2 1/2"	2 1/2"	Inc	Isolation & Lock washer	Threadlocked front plate per 2/S1



2 FRONT PLATE
S1 Scale: N.T.S.



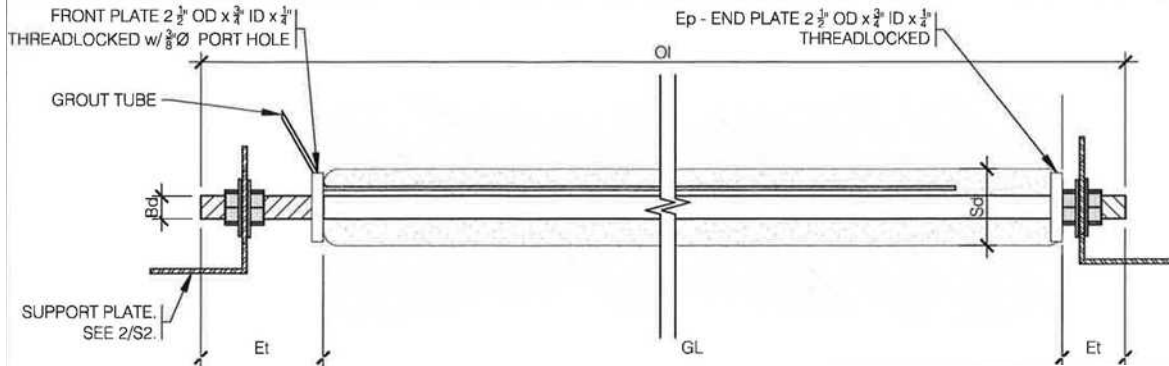
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Drawing Title:

VENT TOWERS

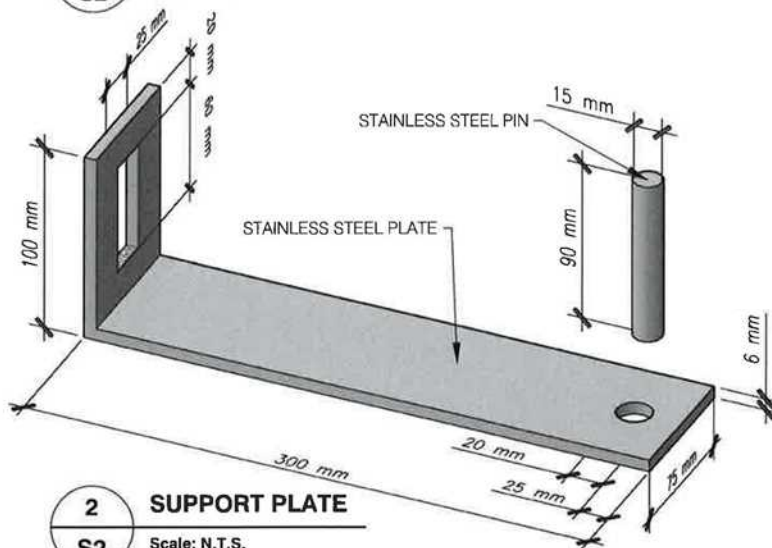


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1 ANCHOR TYPE A2 M20 SRT, GRADE 316

S2 Scale: N.T.S.



2 SUPPORT PLATE

S2 Scale: N.T.S.

ANCHOR TYPE (Stainless Steel)	Bd Body Diameter	OI Overall Length	GL Socked Length	Et Exposed Threads	Hd Drilled Core Hole	Sd Sock Diameter	Nut	Washer	Hardware
A2-M20 Grade 316	3/4" SRT	4500 mm (177")	4300 mm (169")	100 mm (4") Each End	3"	3"	Inc x 4	x 2 Lock washer	Bent Adjustable Support Plate as per Drawing

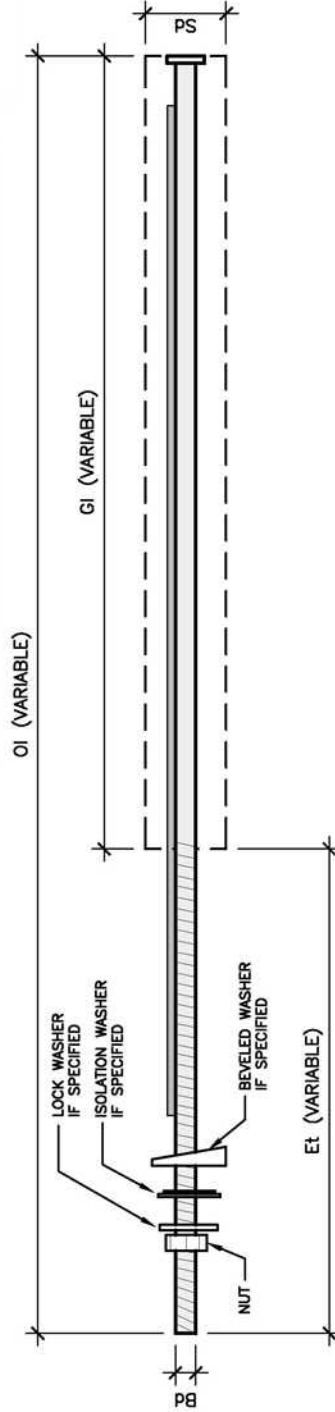


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Drawing Title:

VENT TOWERS

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Anchor Type	Bd	Description	OI	GI	Et	Sd	Core Hole ϕ	Hardware				
								Nut	WASHER Lock	WASHER Isolation	WASHER Beveled	GROUT PRESTEC
M20-DP05	20mm, 3/4"	Stainless Steel Threaded Rod Grade 304	900mm, 36"	300mm, 12"	600mm, 24"	55mm, 2 1/4"	55mm, 2 1/4"	YES	YES	YES	YES	YES
M20-DP05	20mm, 3/4"	Stainless Steel Threaded Rod Grade 304	900mm, 36"	300mm, 12"	600mm, 24"	55mm, 2 1/4"	55mm, 2 1/4"	YES	YES	YES	NO	YES
M20 S106B Roof to Wall	20mm, 3/4"	Stainless Steel Threaded Rod Grade 304	375mm, 15"	300mm, 12"	75mm, 3"	50mm, 2"	50mm, 2"	YES	NO	YES	NO	YES
M20 S106B E & W Wall	20mm, 3/4"	Stainless Steel Threaded Rod Grade 304	375mm, 15"	300mm, 12"	75mm, 3"	50mm, 2"	50mm, 2"	YES	NO	YES	NO	YES
M20 S507 Section 5	20mm, 3/4"	Stainless Steel Threaded Rod Grade 304	375mm, 15"	300mm, 12"	75mm, 3"	55mm, 2 1/4"	55mm, 2 1/4"	YES	YES	YES	NO	YES
M20 S507 Section 7	20mm, 3/4"	Stainless Steel Threaded Rod Grade 304	900mm, 36"	300mm, 12"	600mm, 24"	55mm, 2 1/4"	55mm, 2 1/4"	YES	YES	YES	YES	YES
M20 S505 Section 5,6 & 11	20mm, 3/4"	Stainless Steel Threaded Rod Grade 304	900mm, 36"	300mm, 12"	600mm, 24"	55mm, 2 1/4"	55mm, 2 1/4"	YES	YES	YES	YES	YES
M20 S502 Section 9	20mm, 3/4"	Stainless Steel Threaded Rod Grade 304	600mm, 24"	300mm, 12"	300mm, 12"	55mm, 2 1/4"	55mm, 2 1/4"	YES	YES	YES	NO	YES
M20 S402,5,6,7 Foundation	20mm, 3/4"	Stainless Steel Threaded Rod Grade 304	900mm, 36"	300mm, 12"	600mm, 24"	55mm, 2 1/4"	55mm, 2 1/4"	YES	YES	YES	NO	YES
M25-DP05	25mm, 1"	Stainless Steel Threaded Rod Grade 304	375mm, 15"	300mm, 12"	75mm, 3"	60mm, 2 1/2"	60mm, 2 1/2"	YES	YES	YES	NO	YES

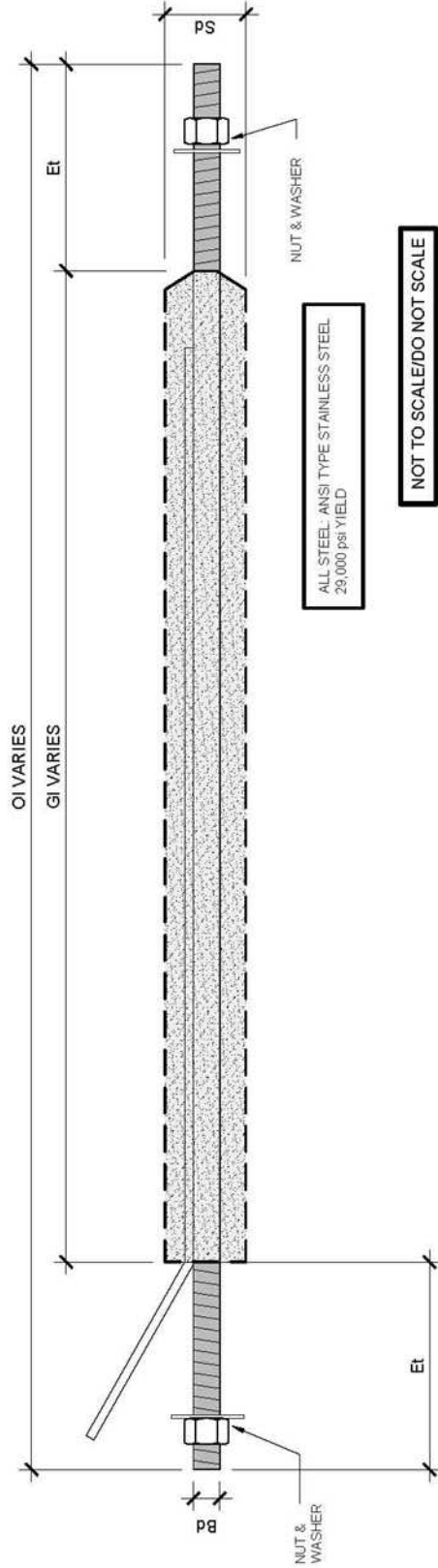
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Drawing Title:
Paliament Buildings



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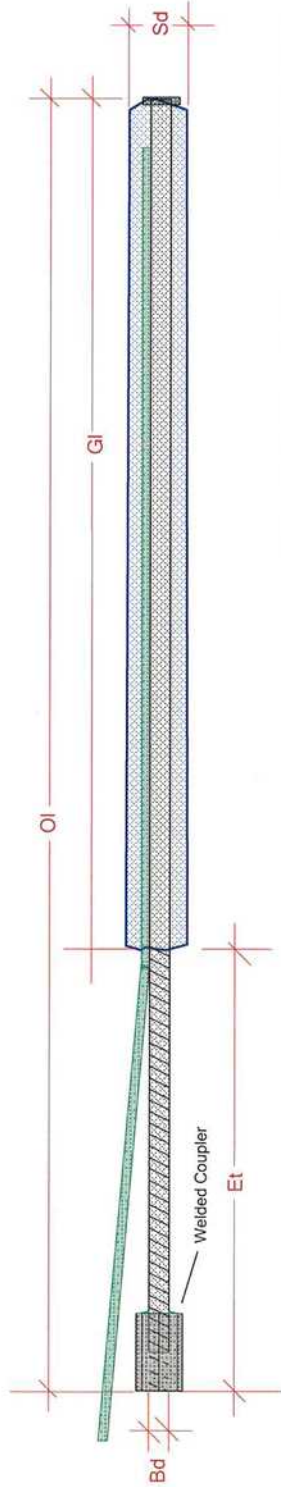
Anchor Type	Bd	OI	GI	Et	Sd	Core Hole Ø	Hardware
M12 - A13714	Body Ø 12mm, 1/2"	Overall Length Varies 1350mm, 54" to 3900mm, 156"	Centered Socked Length Varies 1150mm, 46" to 3700mm, 148"	Exposed Thread Each End 100mm, 4"	Sock Ø 65mm, 2 1/2"	65mm, 2 1/2"	2 Nut, 2 Washer



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Drawing Title:
City Hall

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All Steel is ANSI Type Stainless with a Yield of 29,000 PSI

DATED OTTAWA, ONTARIO Nov 12, 2018

ANCHOR TYPE Stainless Steel	BODY Ø Bd	OVERALL LENGTH OI	SOCKED LENGTH GI	EXPOSED THREAD Et	SOCK Ø Sd	CORE HOLE Ø	HARDWARE
M20 A8	20mm - 3/4"	500mm - 20"	300mm - 12"	200mm - 8"	65mm - 2 1/2"	65 mm - 2 1/2 "	NONE

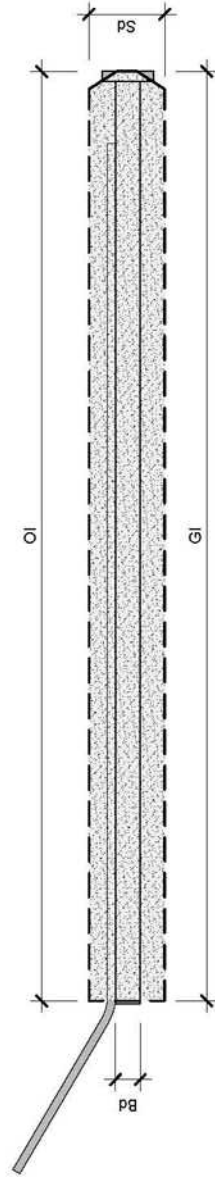
Engineered Grout Injection Anchors by:
CİNtec Reinforcement Systems
 Tel: 1-410-761-0765
 1-613-225-3381
 Fax: 1-613-224-9042
 E-mail: solutions@cintec.com



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ALL STEEL - ANSII TYPE STAINLESS STEEL
29,000 PSI YIELD

NOT TO SCALE/DO NOT SCALE

Anchor Type Stainless Steel	Bd	OI	GI	Et	Sd	Core Hole Ø	Hardware	Maximum Tensile	Maximum Shear	Maximum Pull Out
M12 Type A & D	Body Ø 12mm, 1/2"	Overall Length 375mm, 15"	Socket Length 375mm, 15"	Exposed Thread 0mm, 0"	Socket Ø 32mm, 1 1/4"	32mm, 1 1/4"	None	2970 Lbs	1650 Lbs	3925 Lbs
M12 Type A4	12mm, 1/2"	280mm, 11"	280mm, 11"	0mm, 0"	32mm, 1 1/4"	32mm, 1 1/4"	None	2970 Lbs	1650 Lbs	2808 Lbs



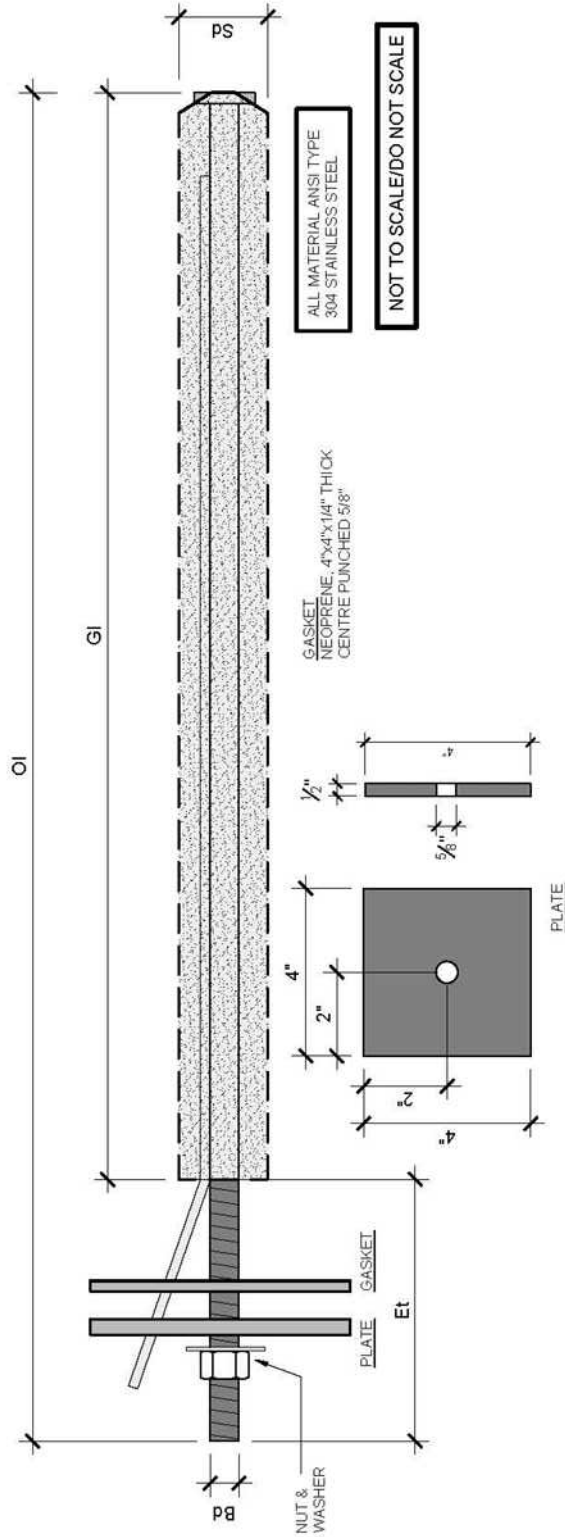
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	Bd	OI	GI	Et	Sd	Core Hole Ø	Hardware
Anchor Type Stainless steel	Body Ø	Overall Length	Socketed Length	Exposed Thread	Socket Ø		
D1 M16	16mm, 5/8"	1000mm, 39"	950mm, 37"	50mm, 2"	50mm, 2"	50mm, 2"	Nut, Washer, Plate 4x4 1/2", Gasket
D4 M16	16mm, 5/8"	750mm, 30"	700mm, 28"	50mm, 2"	50mm, 2"	50mm, 2"	Nut, Washer, Plate 4x4 1/2", Gasket

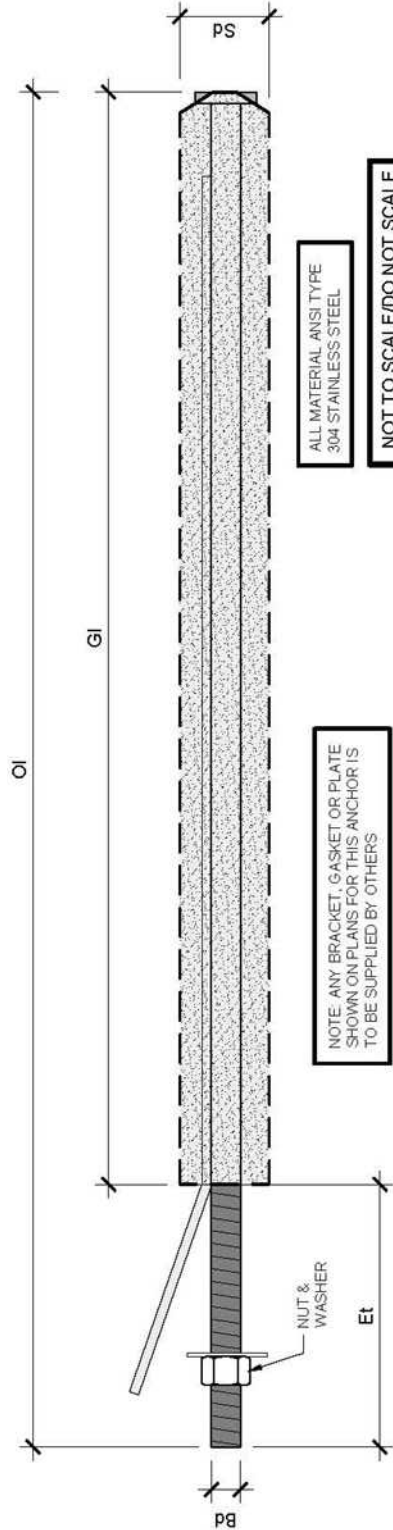


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ALL MATERIAL ANSI TYPE 304 STAINLESS STEEL

NOT TO SCALE/DO NOT SCALE

NOTE: ANY BRACKET, GASKET OR PLATE SHOWN ON PLANS FOR THIS ANCHOR IS TO BE SUPPLIED BY OTHERS

Anchor Type	Bd	OI	GI	Et	Sd	Core Hole Ø	Hardware
Stainless steel	Body Ø	Overall Length	Soaked Length	Exposed Thread	Socket Ø	Core Hole Ø	Hardware
D2 M16	16mm, 5/8"	1000mm, 39"	950mm, 37"	50mm, 2"	50mm, 2"	50mm, 2"	Nut & Washer
E M16	16mm, 5/8"	850mm, 34"	800mm, 32"	50mm, 2"	50mm, 2"	50mm, 2"	Nut & Washer
H M16	16mm, 5/8"	400mm, 16"	300mm, 12"	100mm, 4"	50mm, 2"	50mm, 2"	Nut, Isolation Washer

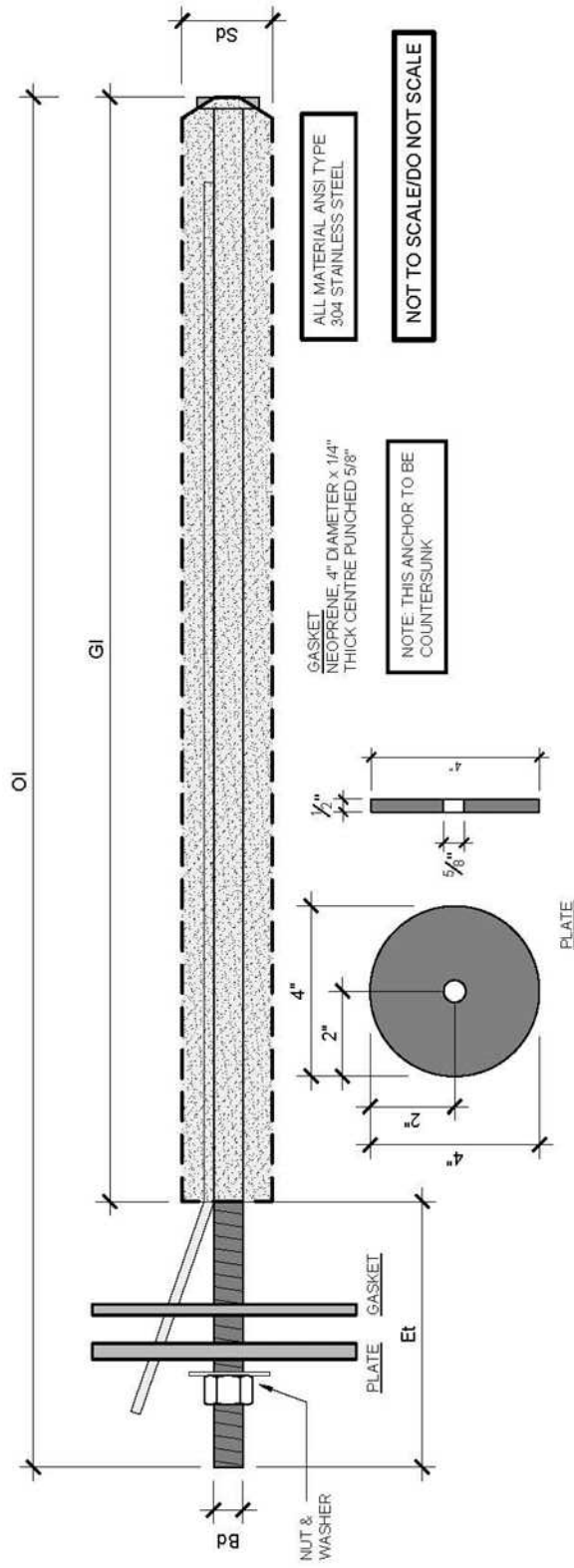


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	Bd	OI	GI	Et	Sd	
Anchor Type Stainless steel	Body Ø 16mm, 5/8"	Overall Length 1000mm, 39"	Socked Length 950mm, 37"	Exposed Thread 50mm, 2"	Sock Ø 50mm, 2"	Hardware
D3 M 16						Nut, Washer, Plate, 4" Diameter x 1/2" Thick, Gasket

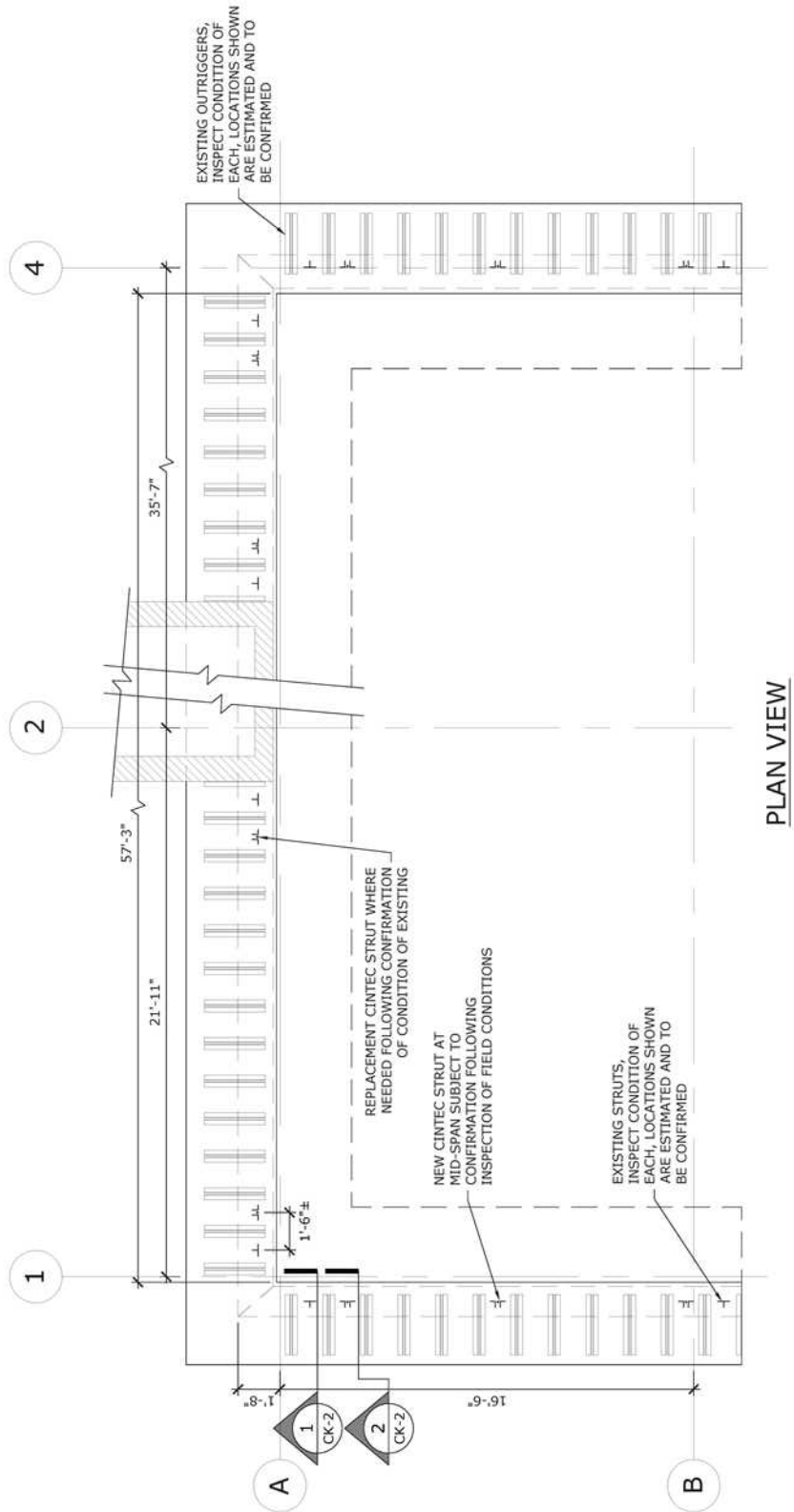
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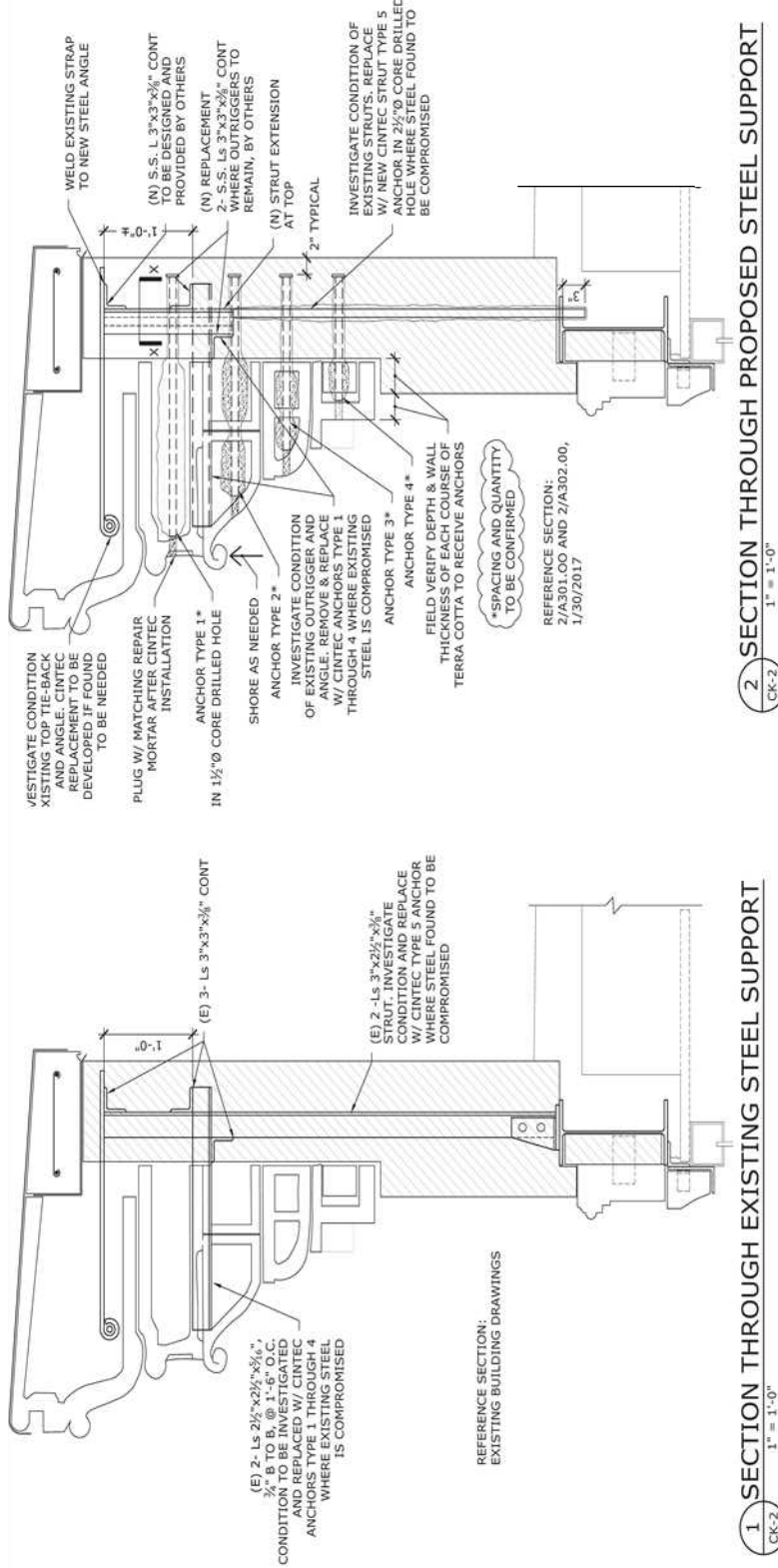
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Drawing Title:
**Water Infiltration Parapets,
 ROOF PARAPET PLAN**



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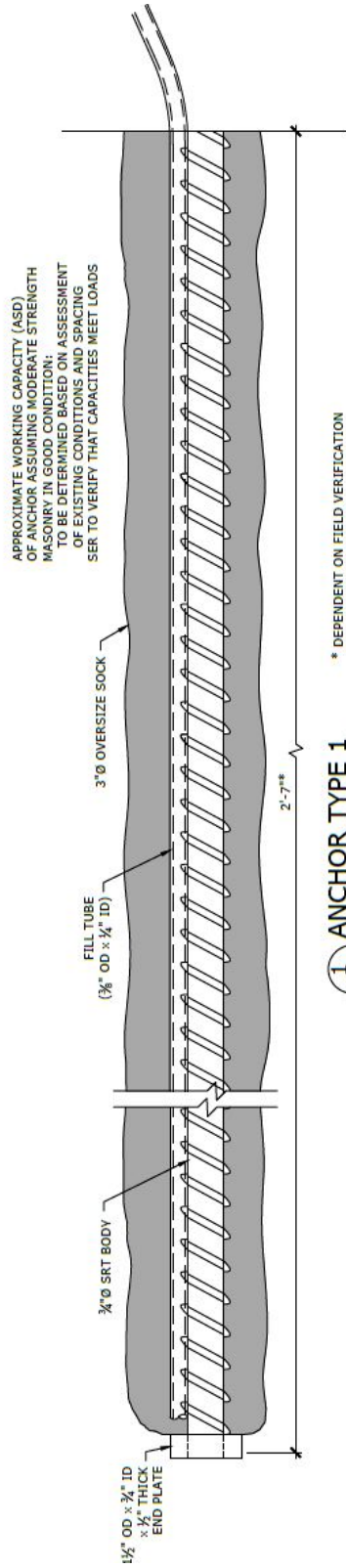


Drawing Title:
**Water Infiltration Parapets,
ROOF PARAPET SECTIONS**

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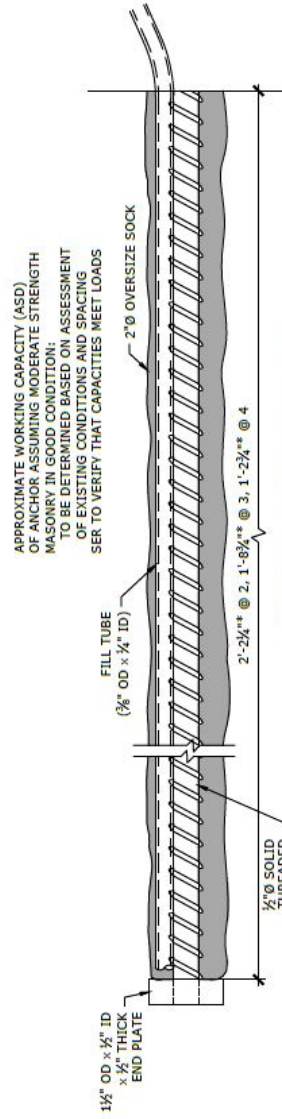


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* DEPENDENT ON FIELD VERIFICATION OF DIMENSIONS ON CK-1

1 ANCHOR TYPE 1
CK-3 6" = 1'-0"
ALL STAINLESS STEEL



* DEPENDENT ON FIELD VERIFICATION OF DIMENSIONS ON CK-1

2, 3, 4 ANCHOR TYPES 2, 3 & 4
CK-3 6" = 1'-0"
ALL STAINLESS STEEL

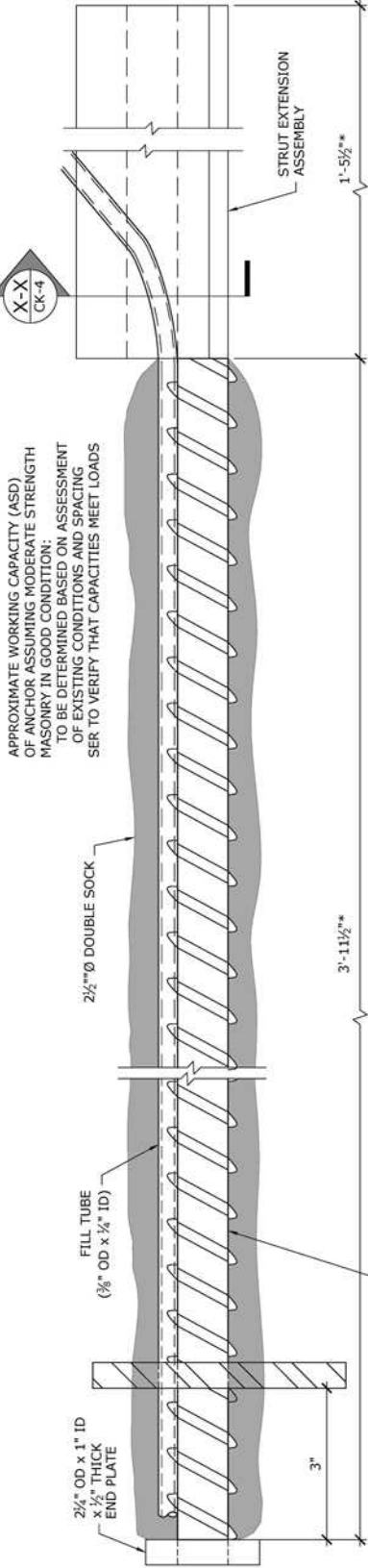
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Drawing Title:

**Water Infiltration Parapets,
ANCHOR DETAILS**

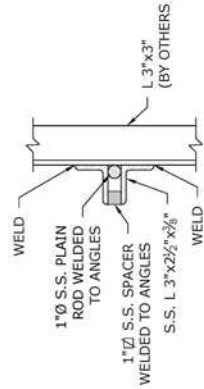
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APPROXIMATE WORKING CAPACITY (ASD) OF ANCHOR ASSUMING MODERATE STRENGTH MASONRY IN GOOD CONDITION: TO BE DETERMINED BASED ON ASSESSMENT OF EXISTING CONDITIONS AND SPACING. REFER TO VERIFY THAT CAPACITIES MEET LOADS.

5 ANCHOR TYPE 5
CK-4 6" = 1'-0"

* DEPENDENT ON FIELD VERIFICATION OF DIMENSIONS ON CK-1



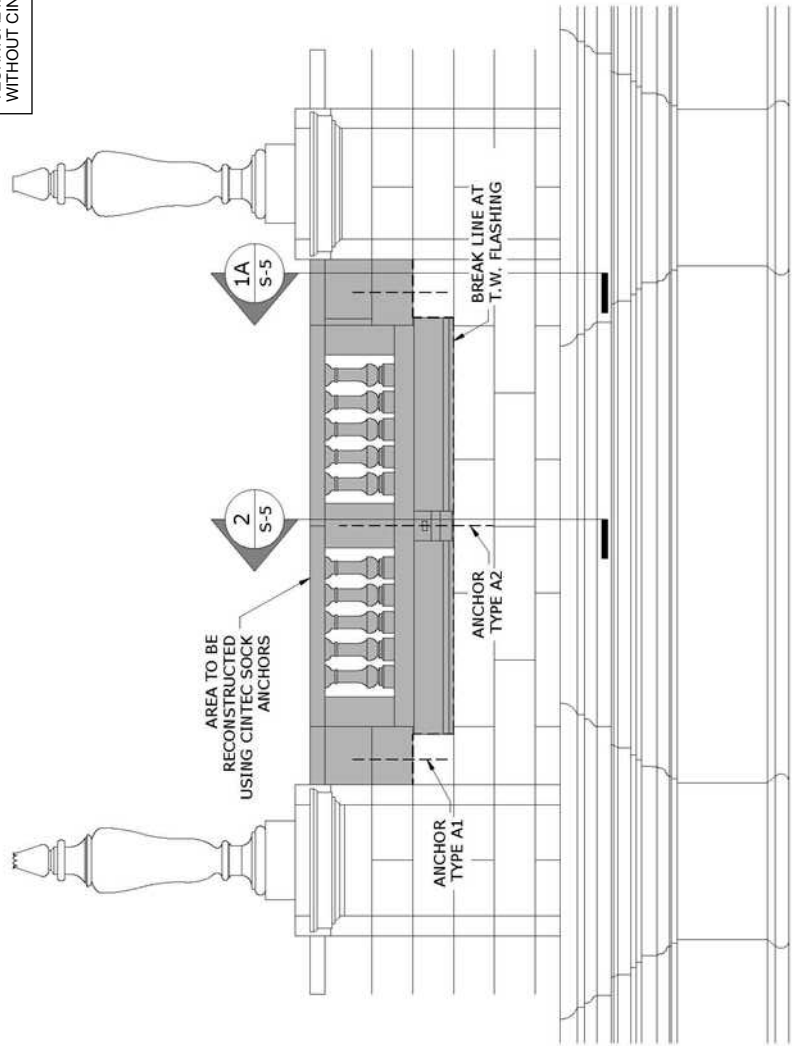
(X-X) PLAN DETAIL
CK-4 1 1/2" = 1'-0"

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Drawing Title:
**Water Infiltration Parapets,
ANCHOR DETAILS**

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TYPICAL NAVE PARAPET AT RAILING
(ELEVATION)
1/4" = 1'-0"

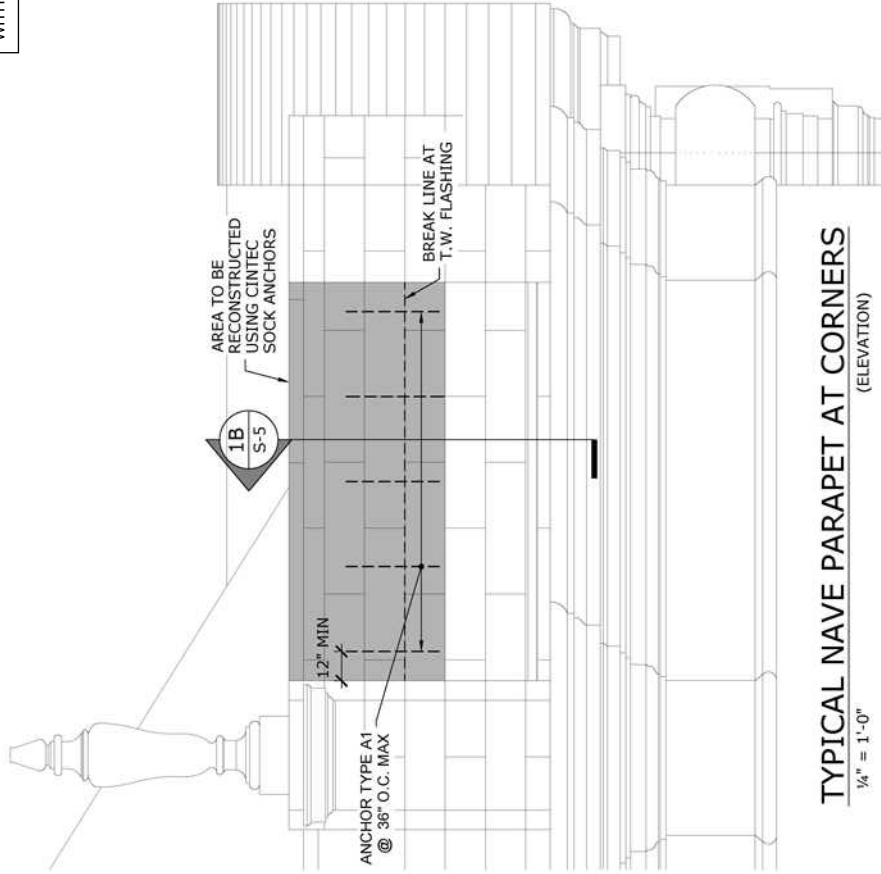


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Drawing Title:
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TYPICAL NAVE PARAPET AT CORNERS
1/4" = 1'-0" (ELEVATION)

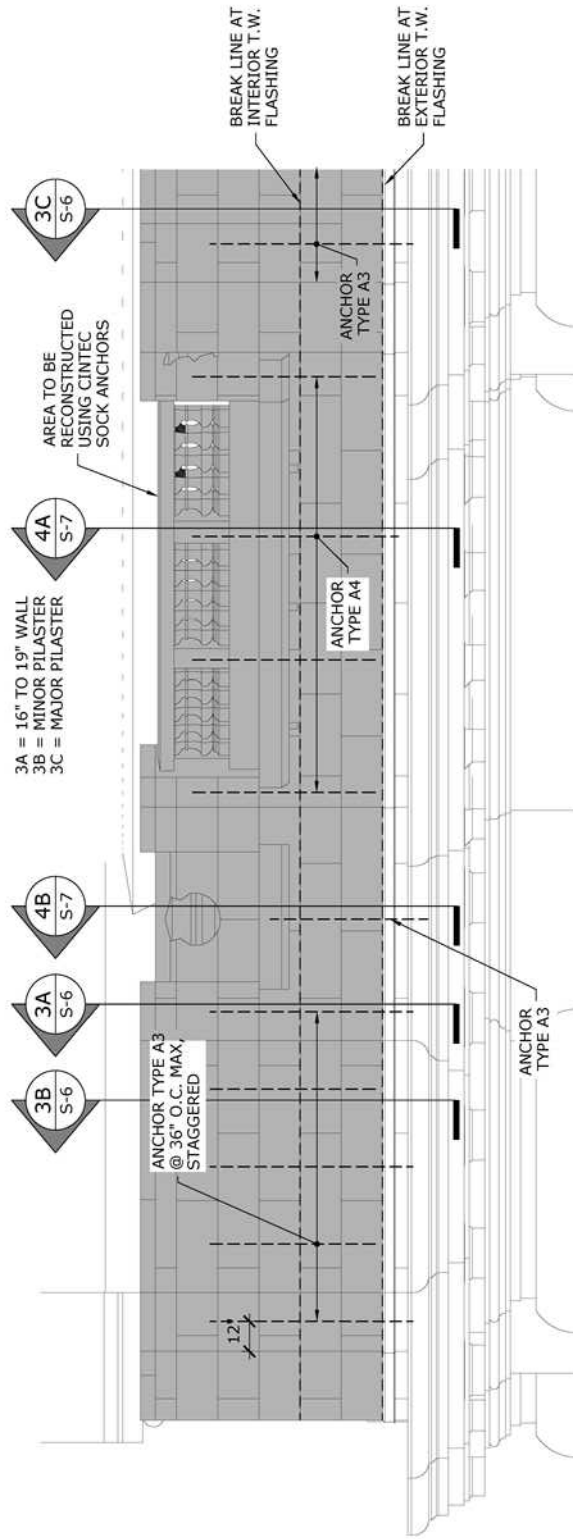


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TYPICAL CHAPEL PARAPET ELEVATION

1/4" = 1'-0"

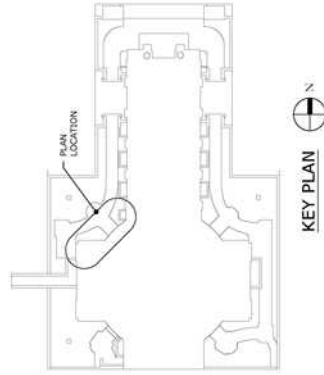
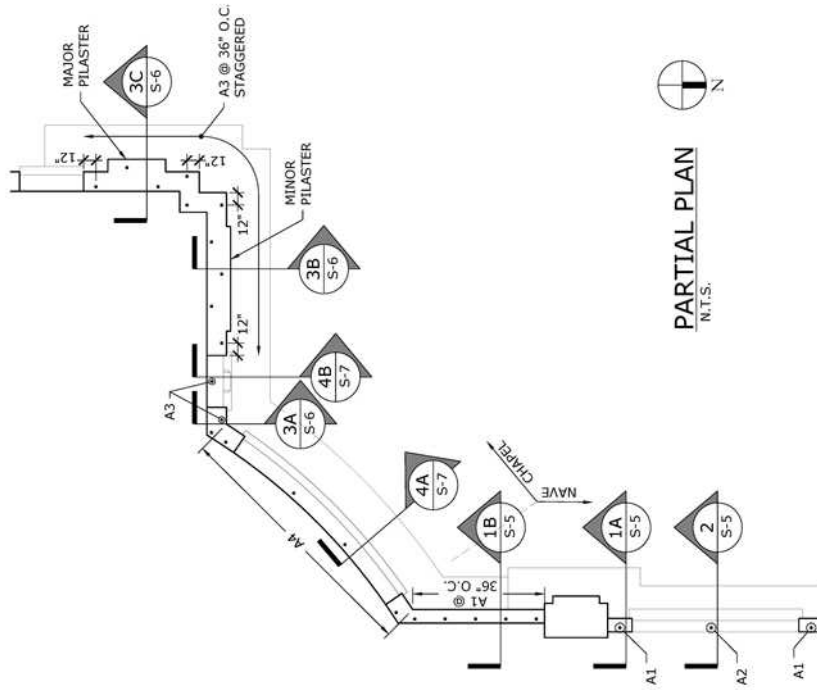
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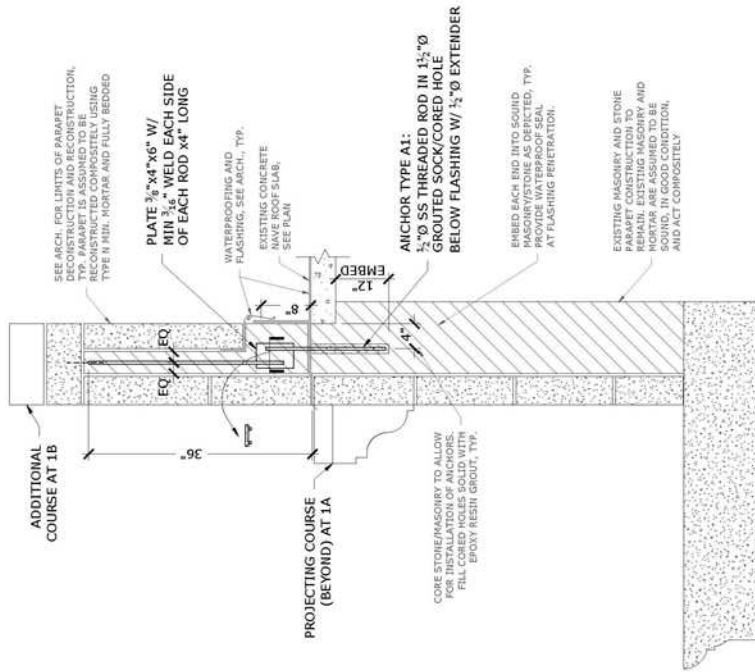


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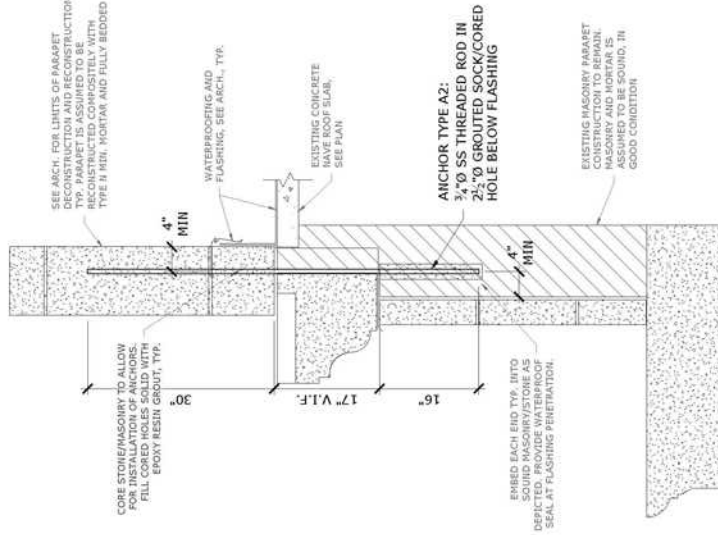


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1A 1B TYPICAL NAVE PARAPET SECTION
S-5 S-5 AT SOLID RECESSED PANELS
3/4" = 1'-0" REFERENCE DETAIL: 1/S802



2 TYPICAL NAVE PARAPET SECTION
S-5 S-5 AT CENTER OF RAILING
3/4" = 1'-0" REFERENCE DETAIL: 4/S802

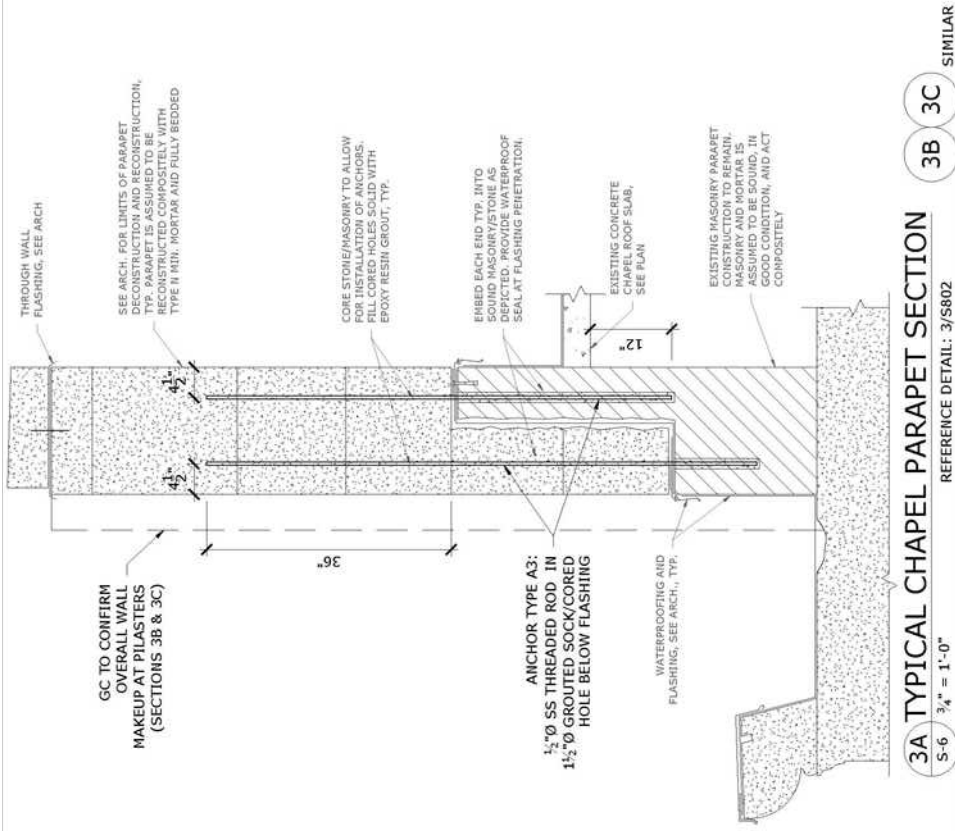
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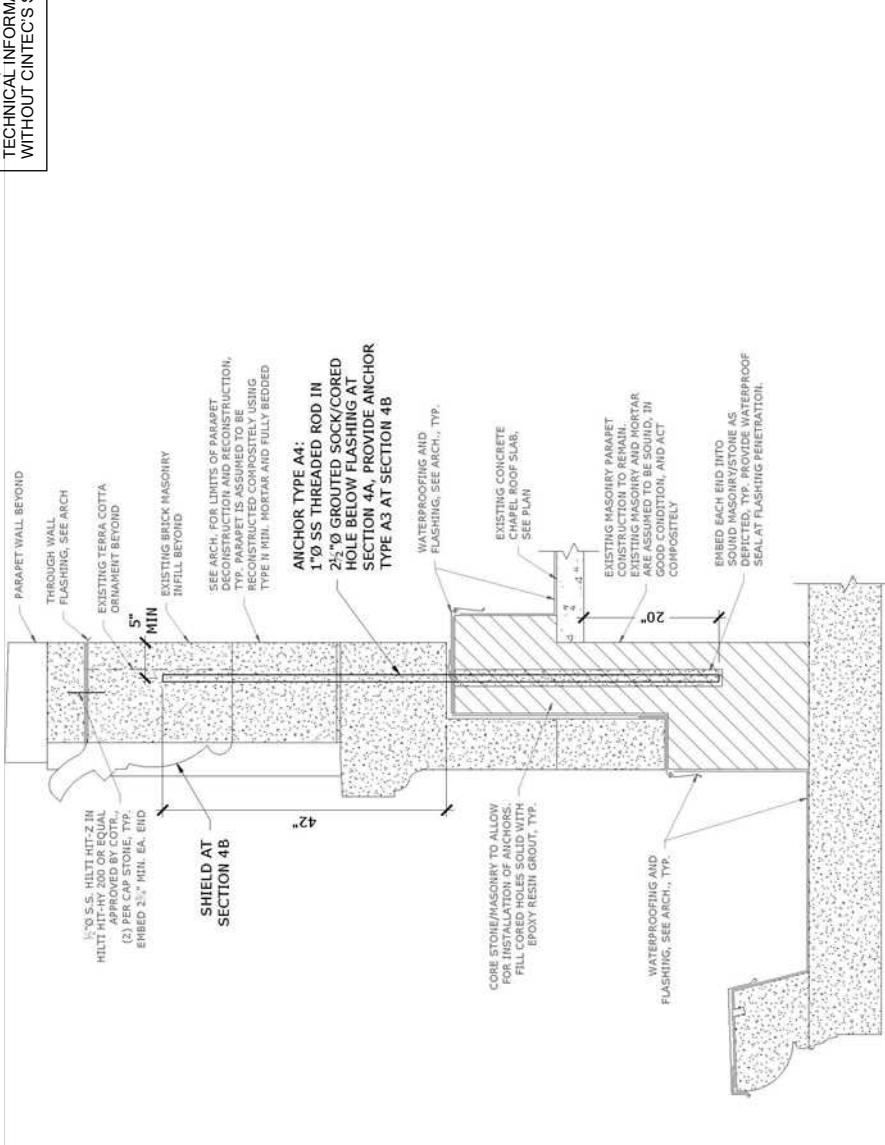


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4A TYPICAL CHAPEL PARAPET SECTION AT RECESSED PANELS (SHIELD & BALUSTERS) REFERENCE DETAIL: S/S802
 4B SIMILAR
 S-7 3/4" = 1'-0"

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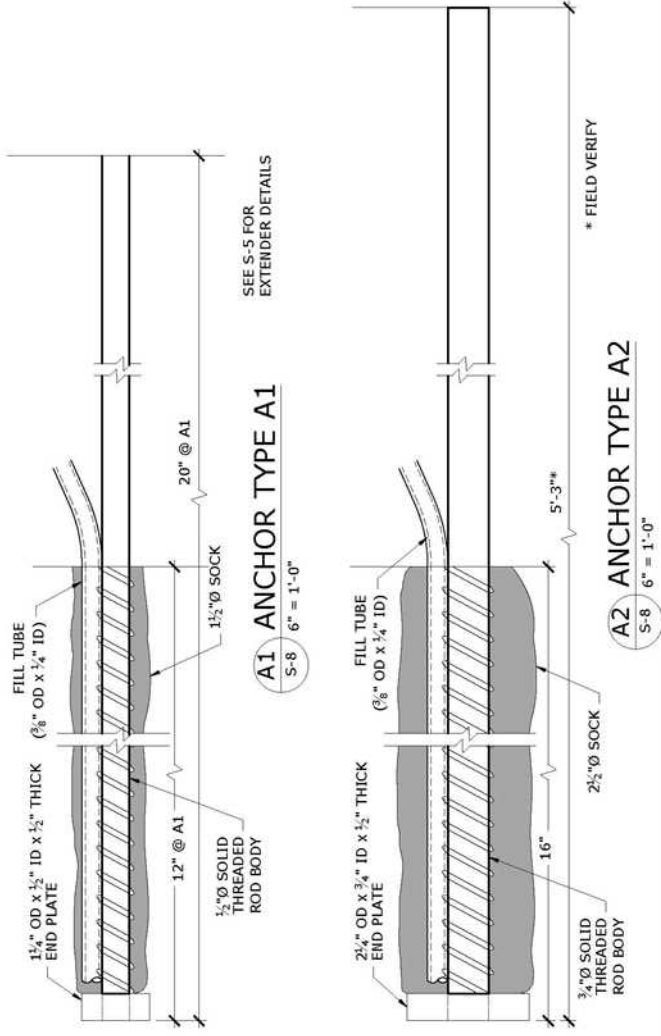


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CINTEC ANCHOR SPECIFICATIONS

ANCHOR TYPE	SECTION TYPE	REFERENCE DETAIL	BODY Ø (Bd)	OVERALL LENGTH (OL)	SOCKED LENGTH (SL)	SOCK Ø (Sd)	CORE HOLE Ø
TYPE A1	M12 SRT (A)	1, S-5 / 1, A802	1/2"	20"	12"	1 1/2"	1 1/2"
TYPE A2	M20 SRT (A)	2, S-5 / 4, A802	3/4"	63"(B)	16"	2"	2"
TYPE A3.1	M12 SRT (A)	3, S-6 / 2, A802	1/2"	81"(B)	12"	1 1/2"	1 1/2"
TYPE A3.2	M12 SRT (A)	3, S-6 / 2, A802	1/2"	68"(B)	30"(B)	1 1/2"	1 1/2"
TYPE A4	M24 SRT (A)	4, S-7 / 5, A802	1"	82"(B)	38"(B)	2"	2"

NOTES:
 (A) TYPE 304 STAINLESS STEEL
 (B) DIMENSION TO BE CONFIRMED BY CONTRACTOR BASED ON ACTUAL COMPONENT GEOMETRY



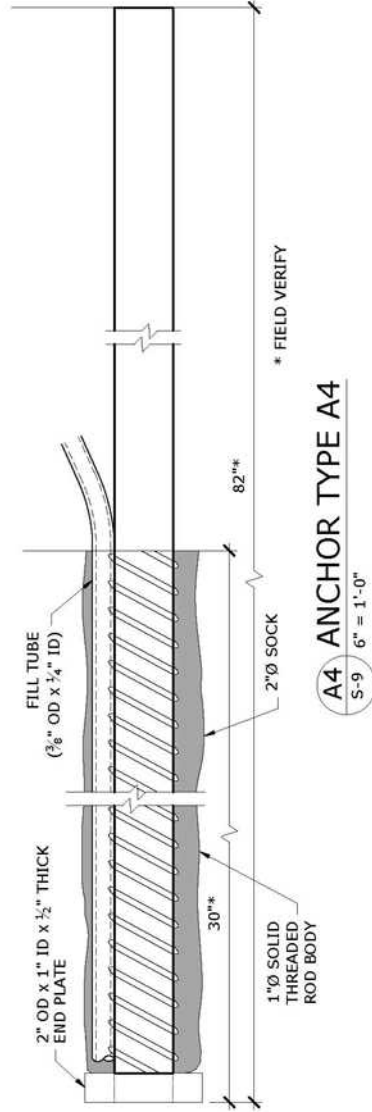
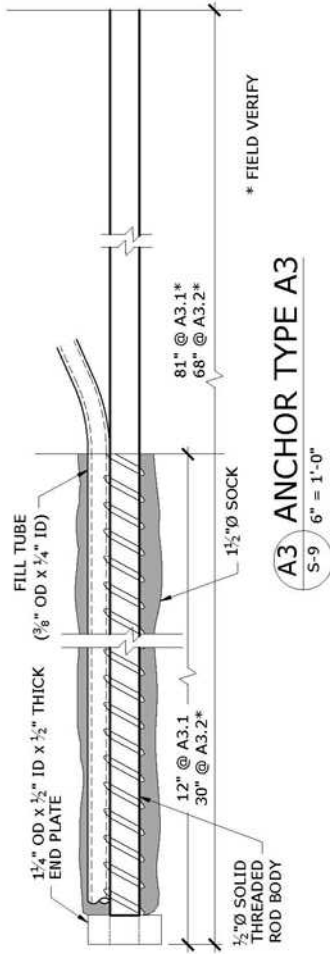
NOTES:
 1. LOCATIONS AND QUANTITIES OF ANCHORS TO BE DETERMINED BY CONTRACTOR.



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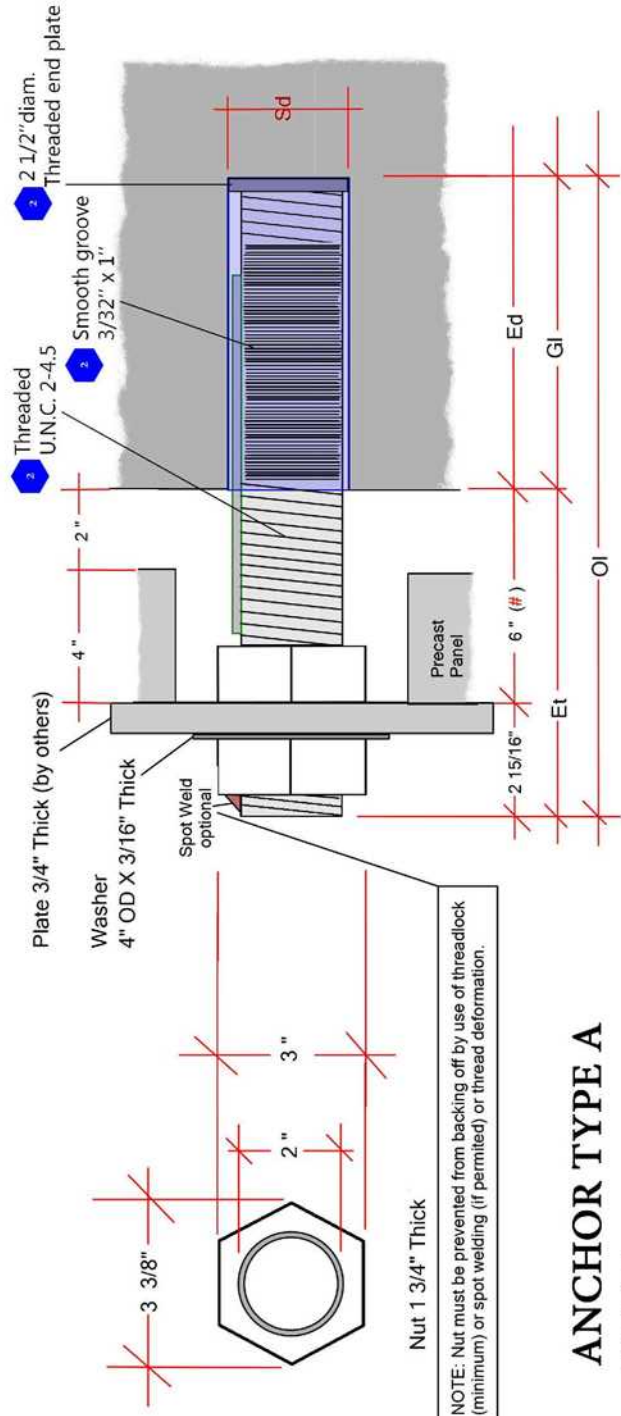


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Drawing Title:
Repair Chapel Exterior

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ANCHOR TYPE A
REV 5

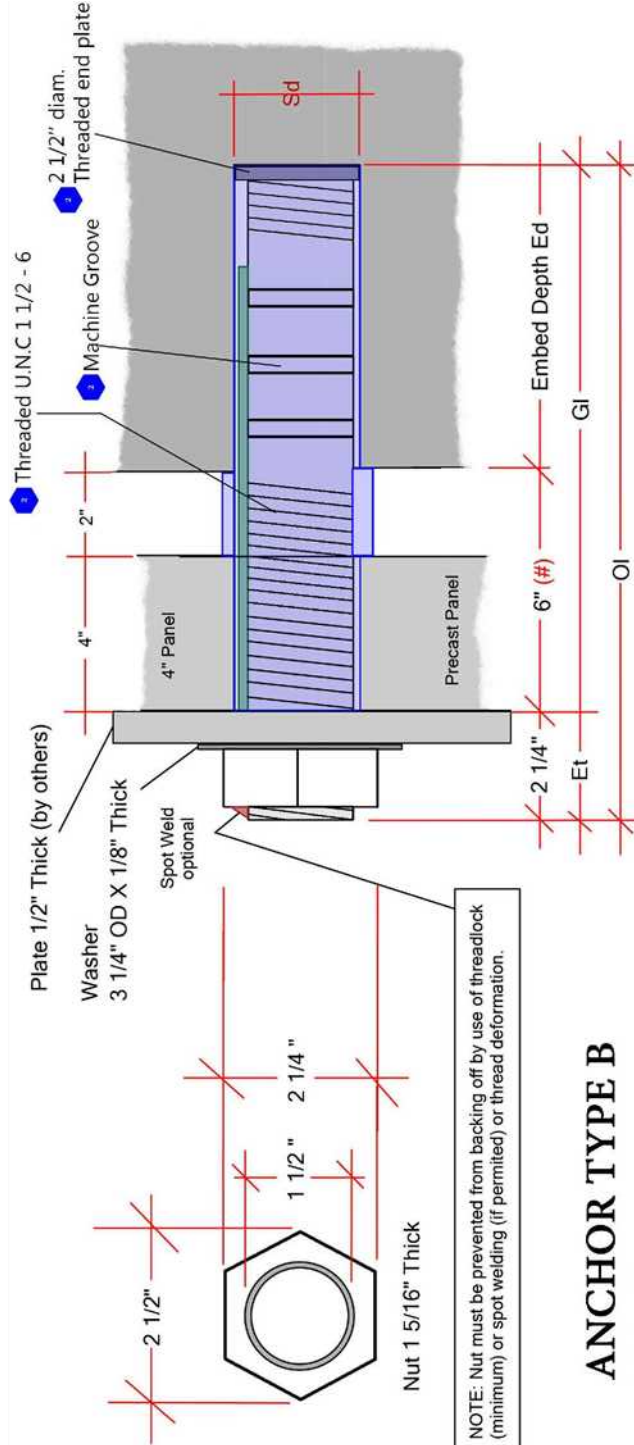
ANCHOR TYPE Stainless Steel 17-4 PH Min Fy 785 Mpa	REVISION 5	BODY Ø Bd 2 inch	OVERALL LENGTH OI 20 15/16 inch	SOCKETED LENGTH GI 12 inch	EXPOSED THREAD Et 8 13/16 inch	FACTORED FORCES V ₈ = 45 kN V ₈ = 15 kN M ₈ = 2.35 kN	EMBED DEPTH Ed 12 inch	SOCK Ø Sd 2 3/4 inch	CORE HOLE Ø	HARDWARE 2 Nuts, 1 Washer
-------------------------------------------------------------	---------------	------------------------	---------------------------------------	----------------------------------	--------------------------------------	-------------------------------------------------------------------------------------------------	------------------------------	----------------------------	-------------	------------------------------



Engineered Grout Injection Anchors by:
Cintec Reinforcement Systems
Tel: 1-410-761-0765
1-613-225-3381
Fax: 1-613-224-9042
E-mail: solutions@cintec.com

Drawing Title:
**Highrise Office Building
Panells to back up wall**

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NOTE: Nut must be prevented from backing off by use of threadlock (minimum) or spot welding (if permitted) or thread deformation.

**ANCHOR TYPE B
REV 5**

ANCHOR TYPE	REVISION	BODY Ø Bd	OVERALL LENGTH OI	SOCKED LENGTH GI	FACTORED FORCES	EXPOSED THREAD EL	EMBEDDED DEPTH Ed	SOCK Ø Sd	CORE HOLE Ø	HARDWARE
Stainless Steel 17-4 PH Min Fy 785 Mpa TYPE B	5	1 1/2 inch	18 1/4 inch	16 inch	W _v = 15 kN A _f = 1.8 kN	2 1/4 inch	10 inch	2 1/4 inch	2 1/4 inch	1 Nut, 1 Washer



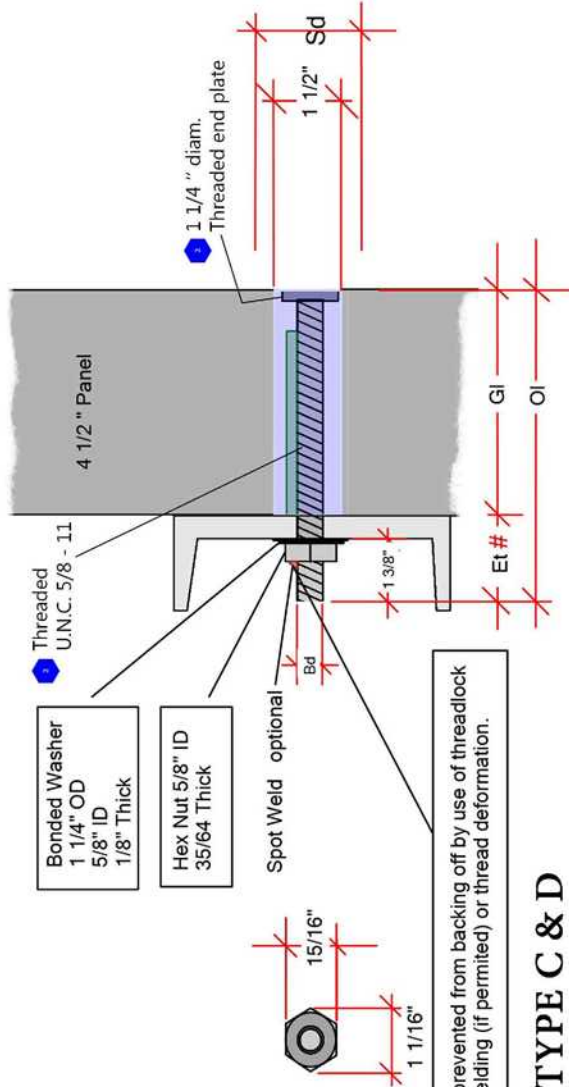
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Drawing Title:

**Highrise Office Building
Panels to back up wall**



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**ANCHOR TYPE C & D
REV 5**

ANCHOR TYPE Stainless Steel Grade 304	REVISION	BODY ϕ Bd	OVERALL LENGTH OI	SOCKET LENGTH GI	FACTORED FORCES	EXPOSED THREAD RH	SOCK ϕ Sd	CORE HOLE ϕ	HARDWARE
TYPE C	5	5/8 inch	6 1/2 inch	4 1/2 inch	Af = + 6.0 kN VfV = 11 kN	2 inch	1 1/2 inch	1 1/2 inch	1 Nut, 1 Bonded Washer
TYPE D	5	5/8 inch	6 1/2 inch	4 1/2 inch	Af = + 6.0 kN	2 inch	1 1/2 inch	1 1/2 inch	1 Nut, 1 Bonded Washer

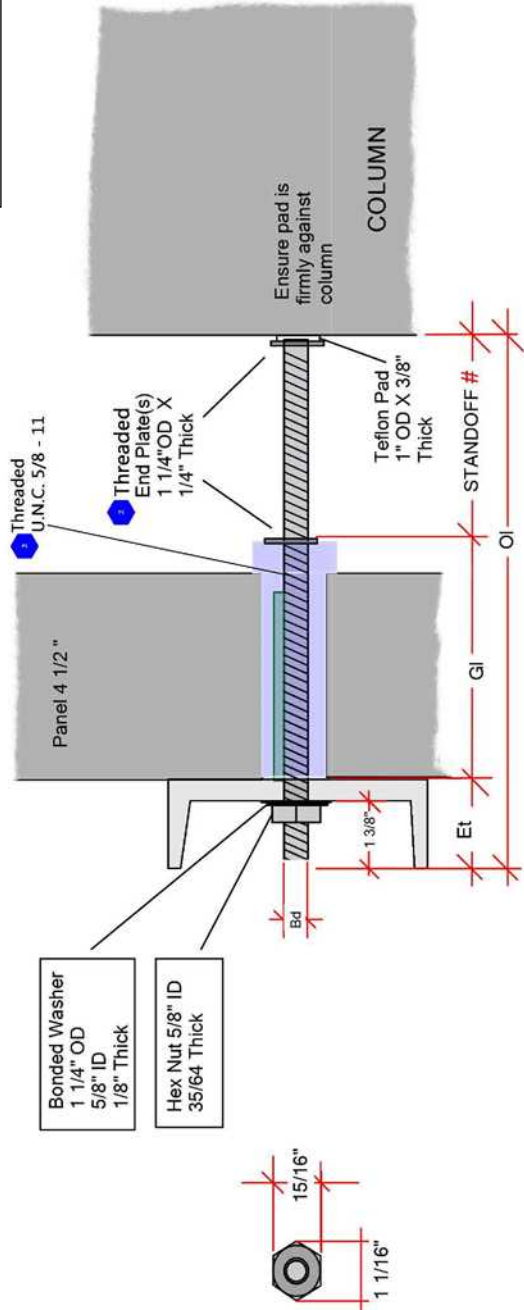


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Drawing Title:

**Highrise Office Building
Panells to back up wall**

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ANCHOR TYPE E & F
REV 5

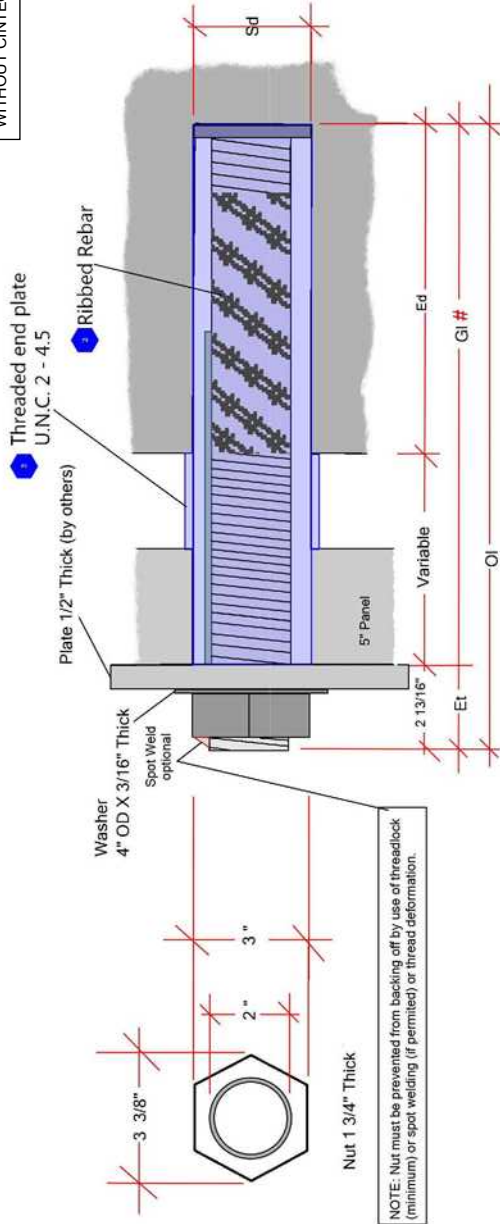
ANCHOR TYPE Stainless Steel Grade 304	REVISION	BODY ϕ Bd	OVERALL LENGTH OI	SOCKED LENGTH G1	FACTORED FORCES	EXPOSED THREAD Et	SOCK ϕ Sd	CORE HOLE ϕ	STANDOFF*	HARDWARE
TYPE E	5	5/8 inch	10 inch	5 inch	$A_t = 0.51N$	2 inch	2 inch	1 1/2 inch	3 inch	1 Nut, 1 Bonded Washer
TYPE F	5	5/8 inch	10 inch	5 inch	$W_t = 1.5N$ $A_t = 0.51N$	2 inch	2 inch	1 1/2 inch	3 inch	1 Nut, 1 Bonded Washer
TYPE E/F	5	5/8 inch	16 inch	5 inch		2 inch	2 inch	1 1/2 inch	9 inch	1 Nut, 1 Bonded Washer

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Drawing Title:
**Highrise Office Building
Panells to back up wall**

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NOTE: Nut must be prevented from backing off by use of threadlock (minimum) or spot welding (if permitted) or thread deformation.

ANCHOR TYPE G & L REV 5

ANCHOR TYPE	REVISION	BODY ϕ _{Bd}	OVERALL LENGTH	FACTORED FORCES	SOCKED LENGTH	EXPOSED THREAD	EMBED DEPTH	SOCK ϕ _{Sd}	CORE HOLE ϕ	HARDWARE
Stainless Steel Grade 2304 Duplex Min Fy 520 Mpa	5	2 inch	21 13/16 inch	$V_{fW} = 35 \text{ kN}$ $A_{fT} = \pm 15\text{KN}$	19 inch	2 13/16 inch	12 inch	3 inch	3 inch	1 Nut, 1 Washer
TYPE G	5	2 inch	19 13/16 inch	$V_{fW} = 26 \text{ kN}$ $A_{fT} = \pm 15\text{KN}$	17 inch	2 13/16 inch	10 inch	3 inch	3 inch	1 Nut, 1 Washer

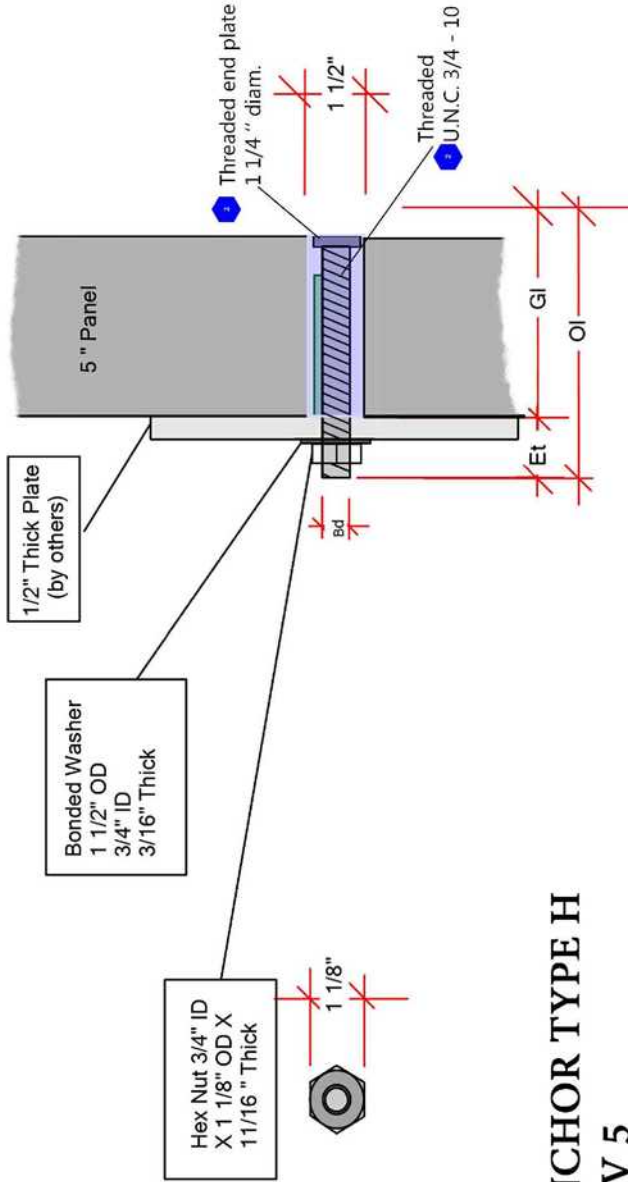


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Drawing Title:

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 Panels to back up wall**

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**ANCHOR TYPE H
REV 5**

ANCHOR TYPE Stainless Steel Grade 304	REVISION	BODY ϕ Bd	OVERALL LENGTH OI	SOCKED LENGTH GL	FACTORED FORCES	EXPOSED THREAD Et	SOCK ϕ Sd	CORE HOLE ϕ	HARDWARE
TYPE H	5	3/4 inch	7 inch	5 inch	$V_f = 15 \text{ kN}$ $A_f = +6 \text{ kN}$	2 inch	1 1/2 inch	1 1/2 inch	1 Nut, 1 Bonded Washer

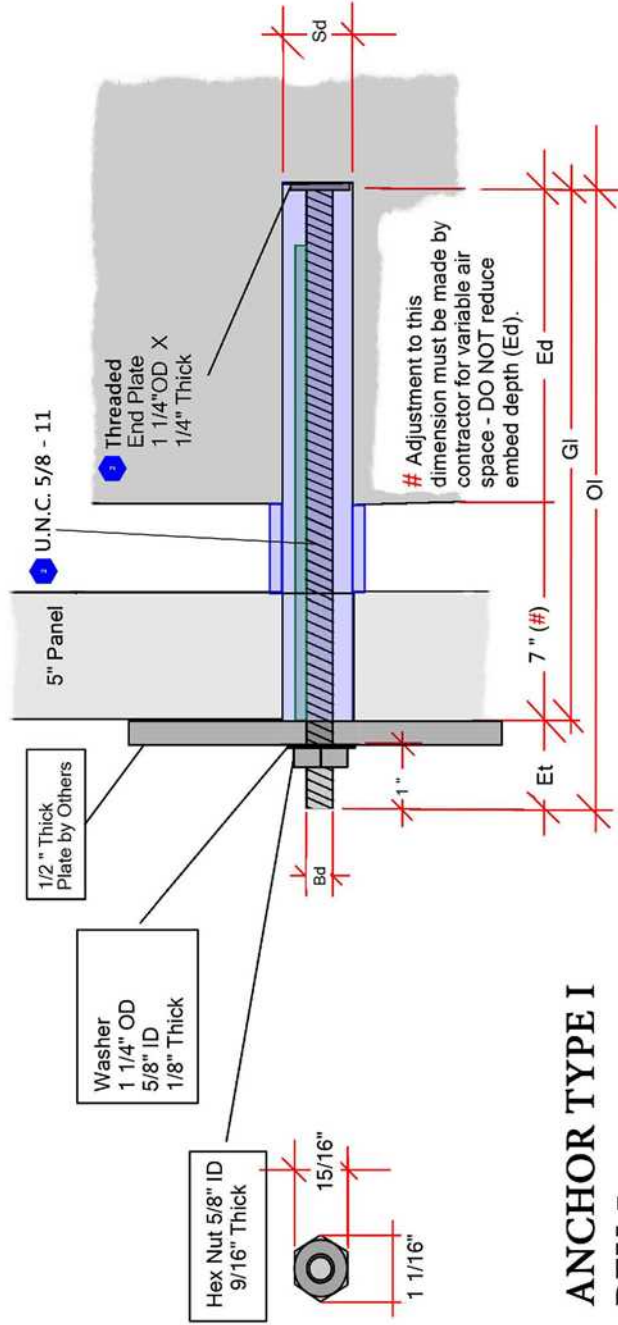
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Drawing Title:

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**ANCHOR TYPE I
REV 5**

ANCHOR TYPE	REVISION	BODY ϕ Bd	OVERALL LENGTH OI	SOCKET LENGTH GI	FACTORED FORCES	EXPOSED THREAD Et	EMBED DEPTH Et	SOCK ϕ Sd	CORE HOLE ϕ	HARDWARE
TYPE I	5	5/8 inch	16 1/2 inch	15 inch	A _r = +13.5 kN	1 1/2 inch	8 inch	2 inch	1 1/2 inch	1 Nut, 1 Washer

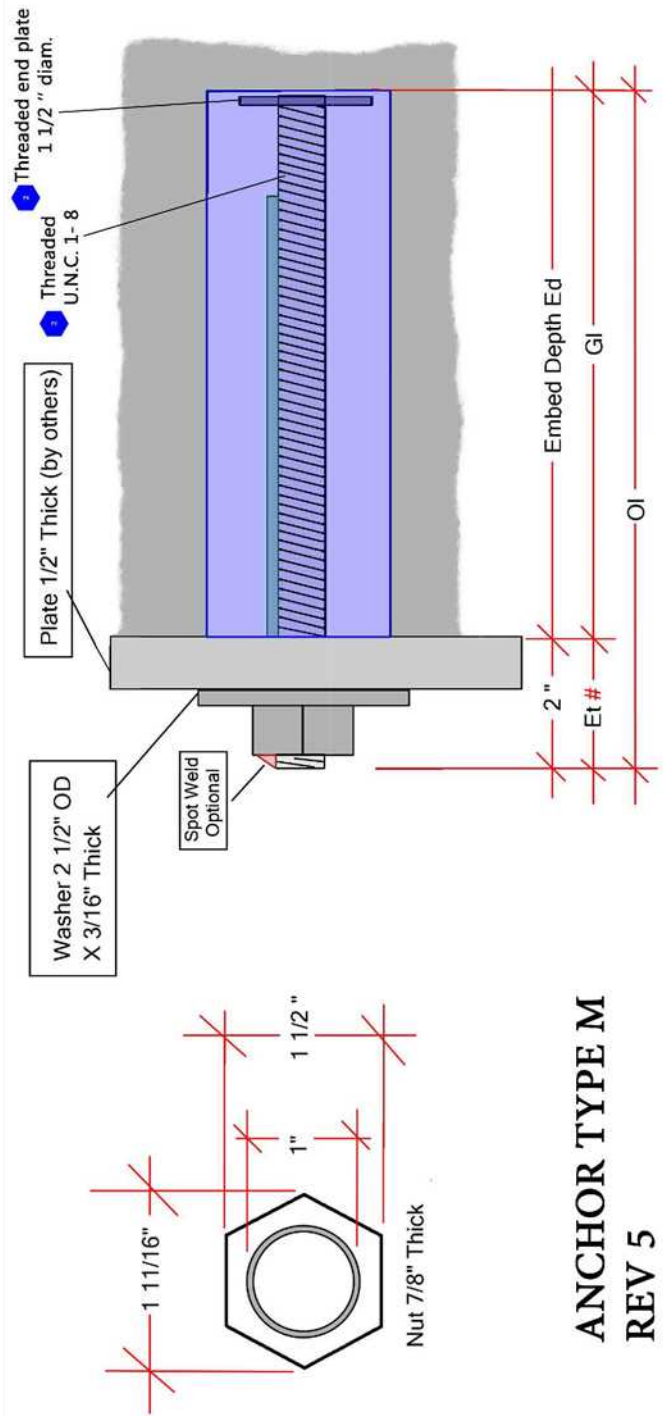


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ANCHOR TYPE M
REV 5

ANCHOR TYPE	REVISION	BODY ϕ Bd	OVERALL LENGTH Ol	SOCKED LENGTH G1	EXPOSED THREAD Et	FACTORED FORCES	EMBED DEPTH E1	SOCK ϕ Sd	CORE HOLE ϕ	HARDWARE
Stainless Steel Grade 304	5	1 inch	12 inch	10 inch	2 inch	$V_F = 15 \text{ kN}$ $A_F = + 5 \text{ kN}$	10 inch	2 inch	1 3/4 inch	1 Nut, 1 Washer

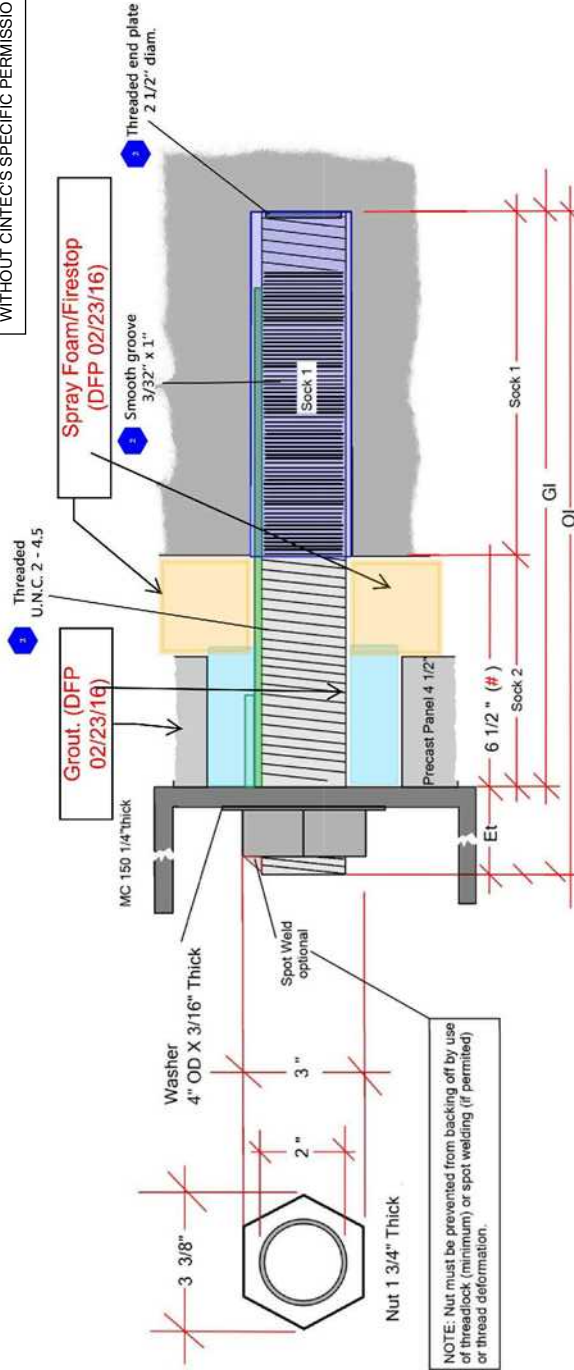
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NOTE: Nut must be prevented from backing off by use of threadlock (minimum) or spot welding (if permitted) or thread deformation.

ANCHOR TYPE N (Option 1) REV 5

ANCHOR TYPE	REVISION	BODY Ø Bd	OVERALL LENGTH Ol	SOCKED LENGTH GI	FACTORED FORCES	EXPOSED THREAD Et	SOCK DIMENSION Sd	CORE HOLE Ø	HARDWARE
Stainless Steel 17-4 PH min Fy 785 MPa	5	2 inch	21 inch	12 inch	Vfv = 30kN	2 1/2 inch	Sock 1 Sock 2 3 inch Ø X 12 inch Long	2 3/4 inch	1 Nut, 1 Washer

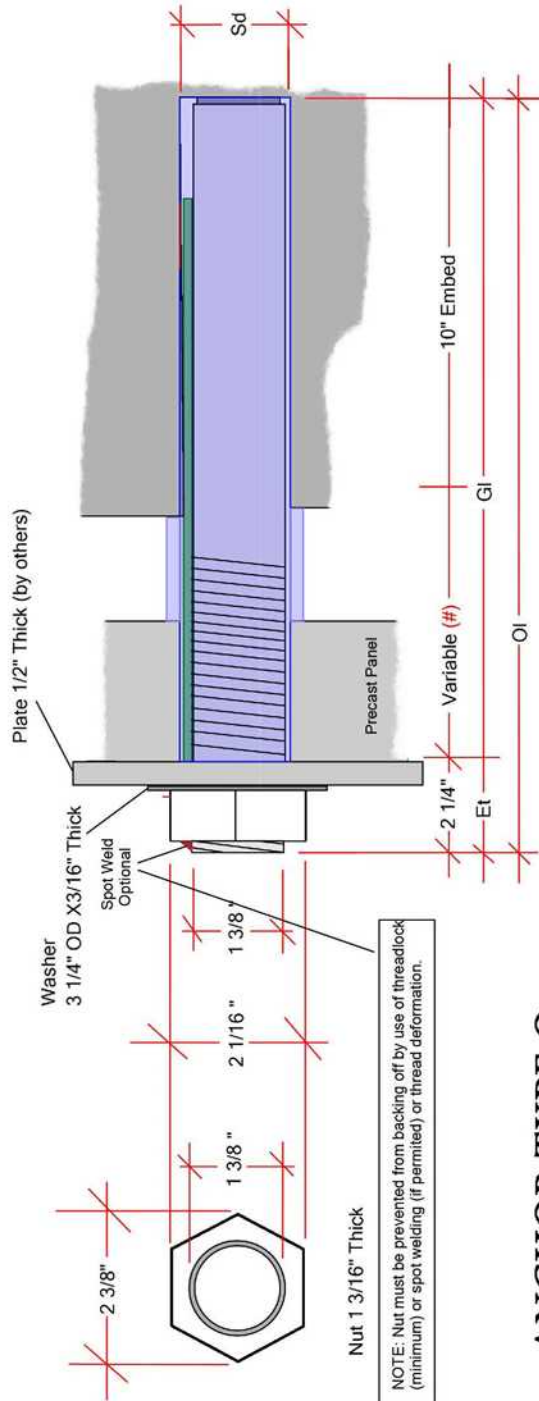


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Drawing Title:

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ANCHOR TYPE O
REV 5

ANCHOR TYPE	REVISION	BODY ϕ Bd	OVERALL LENGTH OI	FACTORED FORCES	SOCKED LENGTH GI	EXPOSED THREAD Et	SOCK ϕ Sd	CORE HOLE ϕ	HARDWARE
Stainless Steel Grade 2304 min Fy 520MPa	5	1 3/8 inch	18 1/2 inch	VV = 10 kN AF = + 18 kN	16 1/4 inch	2 1/4 inch	2 inch	2 inch	1 Nut, 1 Washer

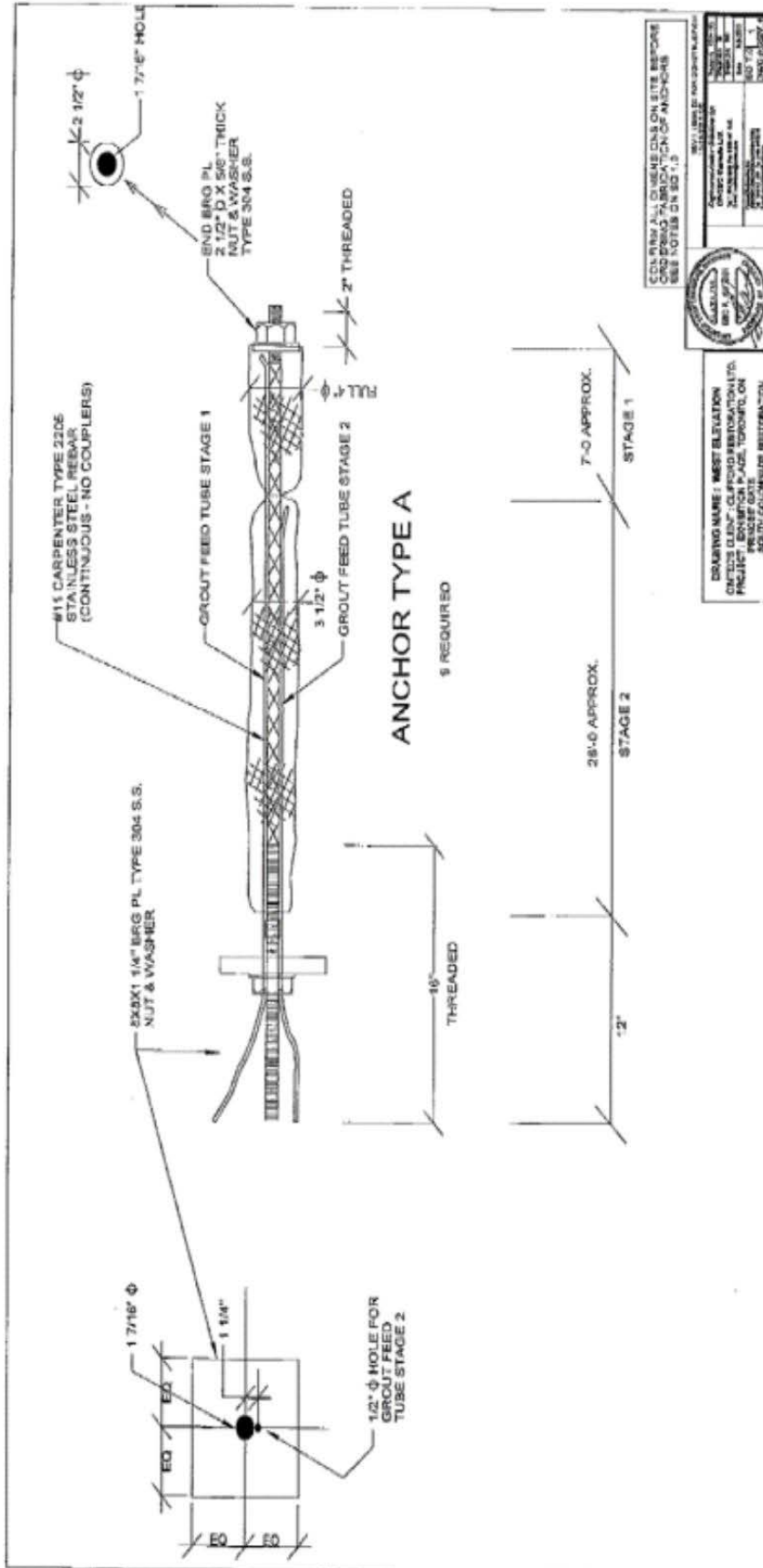


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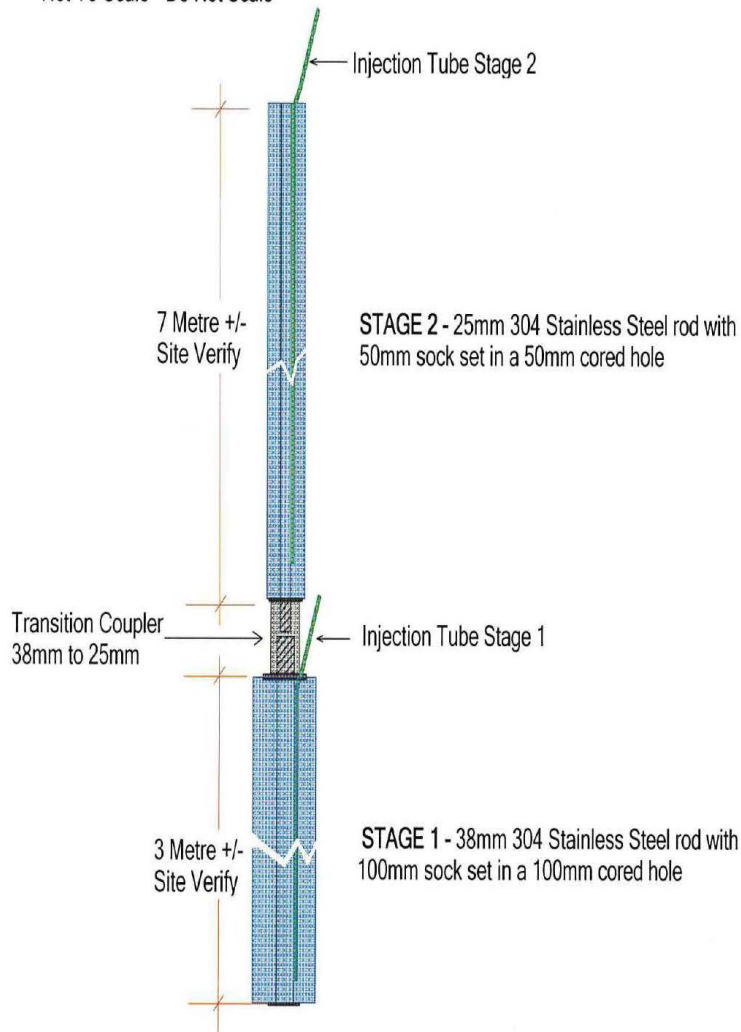


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Not To Scale - Do Not Scale



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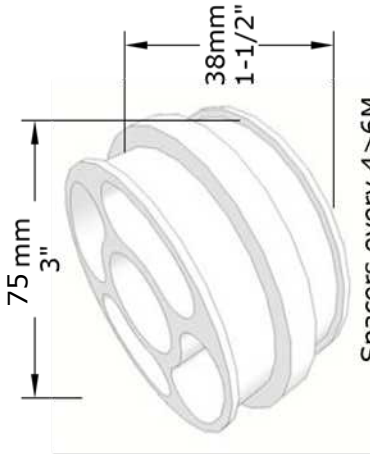
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Cintec No 10 Rebar 2304/2205 (1 1/4) Reinforcement

Location to be determined by the Engineer of Record

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Spacers every 4>6M
Subject to site conditions

Endplate Reinforcement Body No 10 Rebar (1 1/4) 2304/2205

• Sock DIA 100mm (4")
Full Length of Reinforcement

• Spacers every 4>6M Subject to site conditions

• Injection Tubes

• Coupler
(As Req'd)

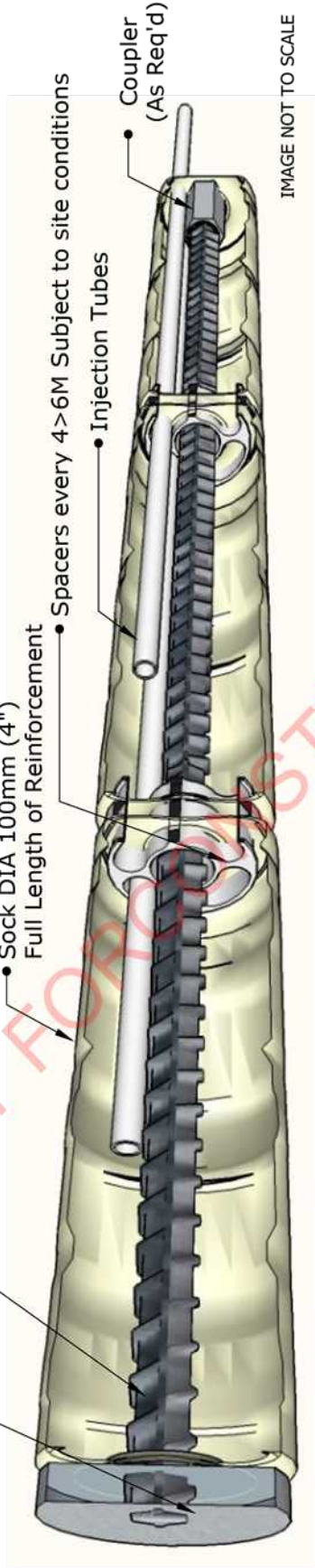


IMAGE NOT TO SCALE

REINFORCEMENT LENGTH TO SUIT SITE CONDITIONS
Client To Confirm ALL Measurements Before Ordering By Site Inspection



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Drawing Title:
CINTEC ANCHOR



CINTEC

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