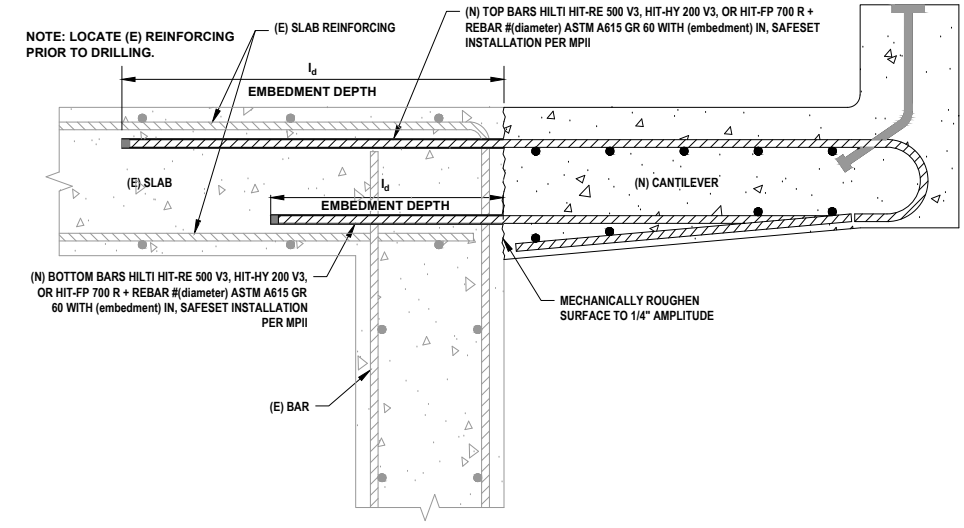


**TYPICAL DETAILS FOR POST-INSTALLED REINFORCING BARS**

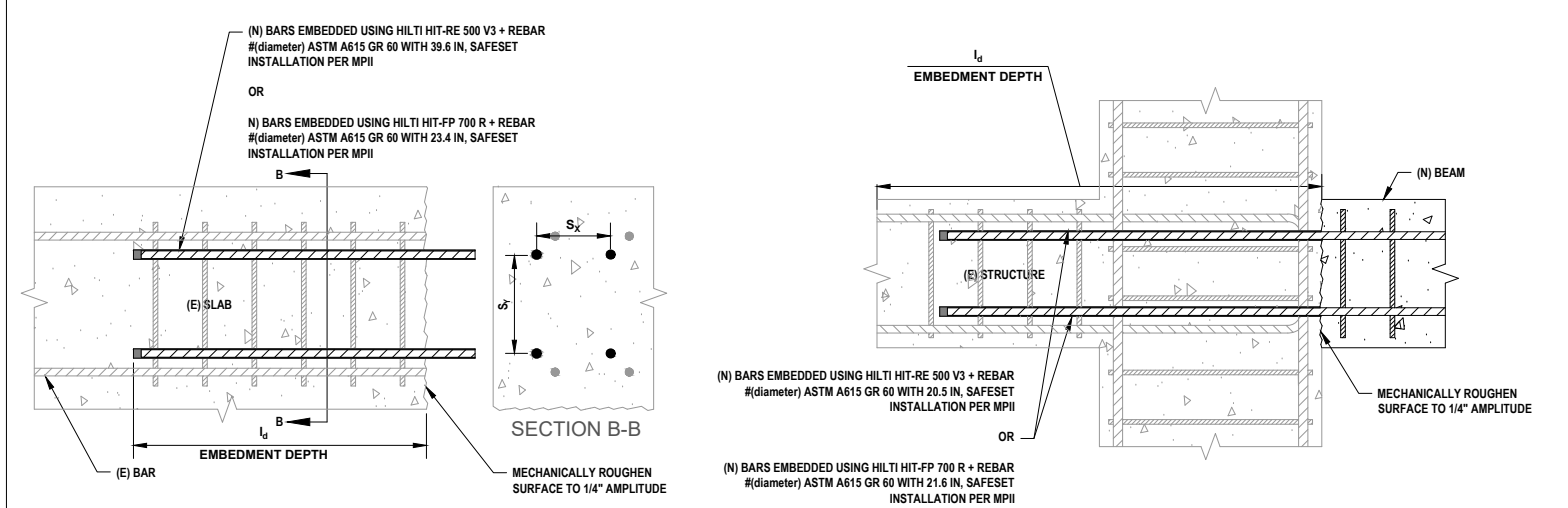
**NOTES TO THE ENGINEER OF RECORD:**

1. ENGINEER OF RECORD SHALL INDICATE POST-INSTALLED REBAR DOWEL SIZE, SPACING, EDGE DISTANCE, EMBEDMENT DEPTH AND PROTRUDING LENGTH ON CONSTRUCTION DOCUMENTS
2. DOWELS SHALL BE CAN/CSA-G30.18 GR. 400 OR ASTM A615 GR 60
3. POST-INSTALLED REINFORCING SYSTEM: HIT-FP 700 R, HIT-RE 500 V3, HIT-HY 200 V3
4. DRILLING METHODS
  - 4.1. RECOMMENDED METHOD IS SAFESET WITH HOLLOW DRILL BIT
  - 4.2. IF CORING IS NEEDED, USE DIAMOND CORE DRILL BIT AND THE HILTI ROUGHENING TOOL (HIT-RT)
5. LOCATE EXISTING REINFORCING PRIOR TO DRILLING - DO NOT DAMAGE (E) REINFORCING WITHOUT PRIOR AUTHORIZATION OF THE ENGINEER OF RECORD.

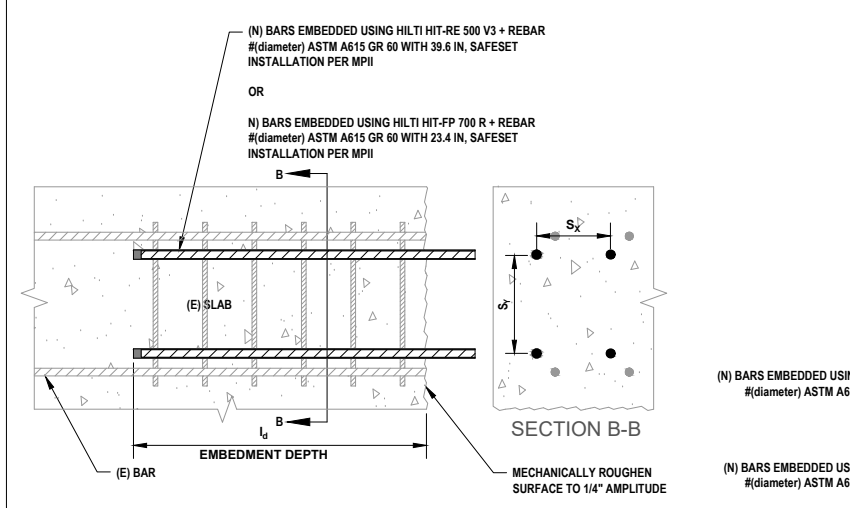
ANCHORING SYSTEM	HILTI HIT-RE 500 V3 w SAFE SET	HILTI HIT-HY 200 V3 w SAFE SET	HILTI HIT-FP 700 R w SAFE SET
TESTED FOR USE IN FIRE-RATED ASSEMBLY	X		X
ACI 318 CH 25 DEVELOPMENT/SPUCE LENGTH	X	X	X
ACI 318 CH 17 ANCHORING PROVISIONS	X	X	
TESTED FOR USE WITH HILTI ROUGHENING TOOL AND DIAMOND CORED HOLES	X	X	X
BASE MATERIAL TEMPERATURE	-5°C TO +40°C +23°F TO +104°F	-10°C TO +40°C +14°F TO +104°F	-10°C TO +40°C +14°F TO +104°F
ICC-ES REPORT	ESR-3814	ESR-4868	ESR-5891



**3**  
R.0.1  
POST INSTALLED BAR TENSION LAP SPLICE FOR CANTILEVER SECTION  
NOT TO SCALE

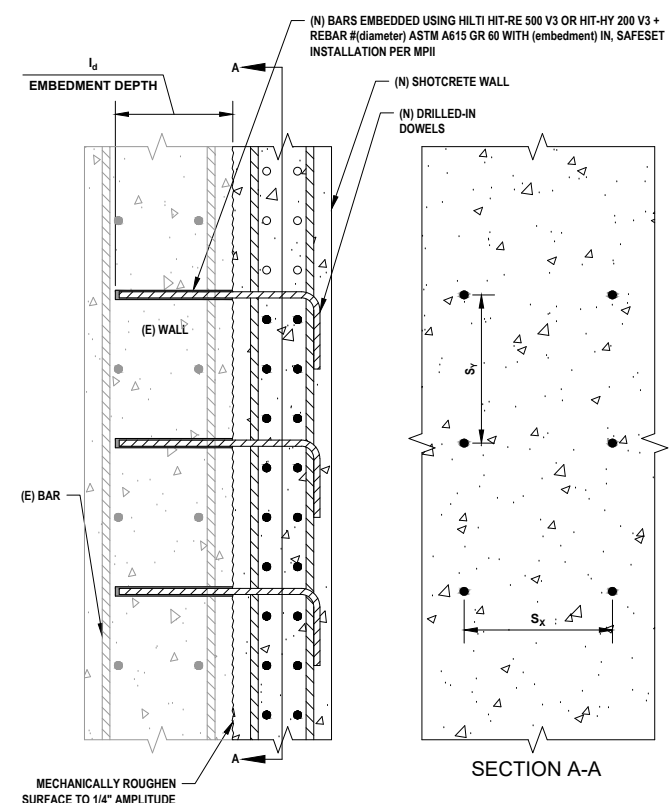


**2**  
R.0.1  
POST INSTALLED BAR DEVELOPMENT LENGTH IN SPECIAL MOMENT FRAME  
NOT TO SCALE

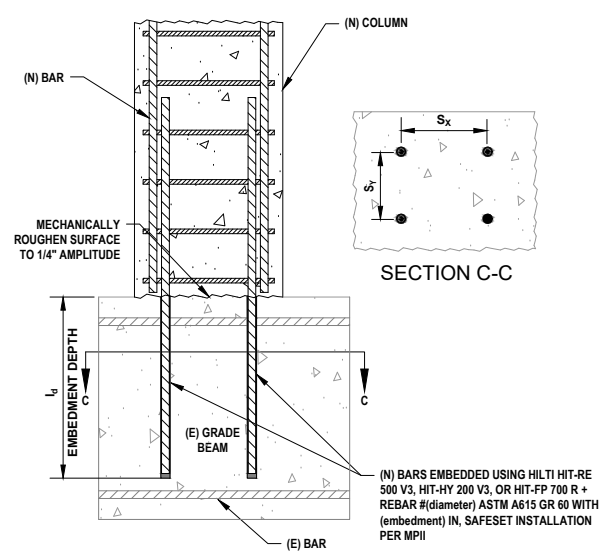


**1**  
R.0.1  
POST INSTALLED BAR TENSION LAP SPLICE NEW SLAB TO EXIST SLAB  
NOT TO SCALE

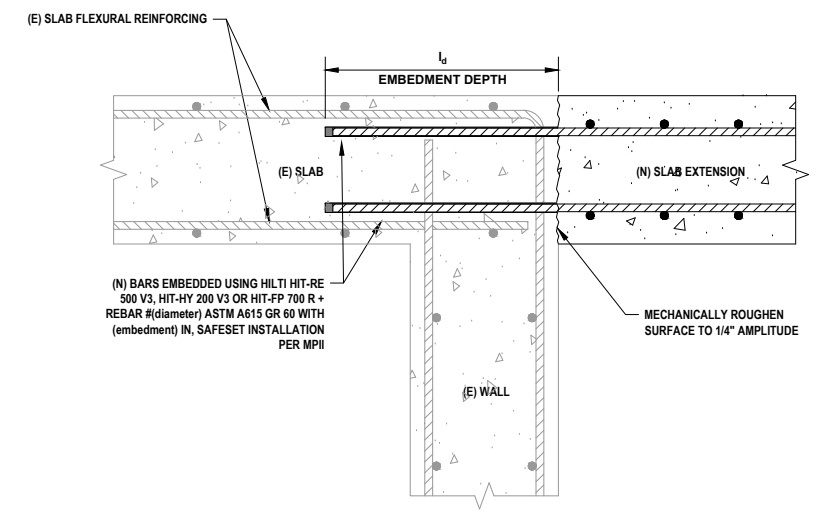
**EXAMPLES FOR FIRE-RATED CONCRETE TO CONCRETE CONNECTIONS**



**4**  
R.0.1  
POST INSTALLED SHEAR DOWELS FOR NEW ONLAY SHEAR WALL  
NOT TO SCALE



**5**  
R.0.1  
STARTER BARS FOR COLUMN EXTENSION INTO EXISTING FOOTING  
NOT TO SCALE



**6**  
R.0.1  
TENSION LAP SPLICE FOR NEW SLAB INTO EXISTING SLAB/WALL  
NOT TO SCALE

<Notes to designer (delete this note after reading and replace with title block information)>  
 2. Details shown are up to date as of September 2015.

JOB NUMBER: \_\_\_\_\_

DRAWN: \_\_\_\_\_

CHECKED: \_\_\_\_\_

ISSUE DATE: \_\_\_\_\_

REVISIONS: \_\_\_\_\_

CONTENTS: \_\_\_\_\_

SHEET NAME: \_\_\_\_\_

**R.0.1**

SHEET NUMBER: \_\_\_\_\_