

Consulwal™ Engineering Data

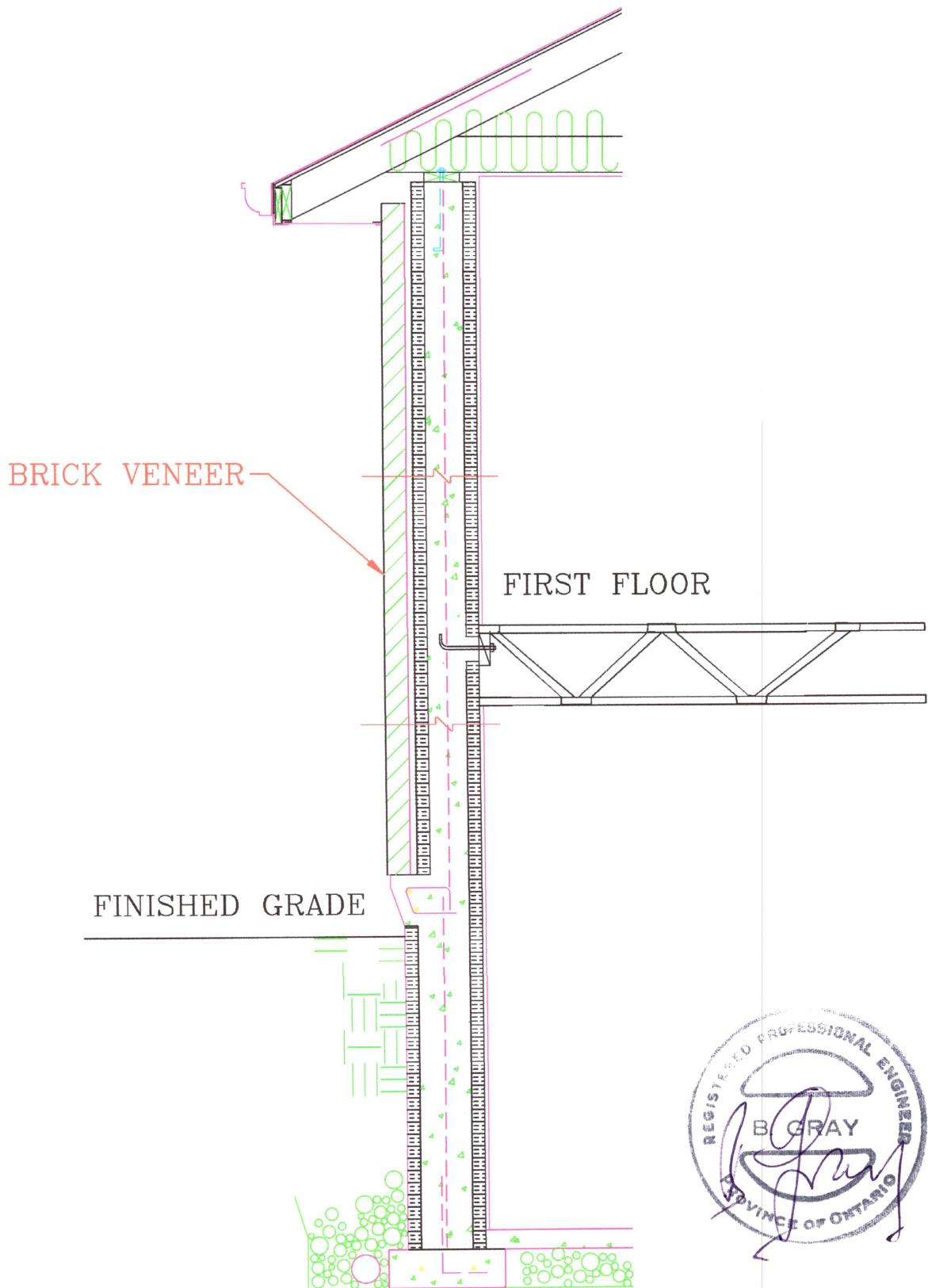
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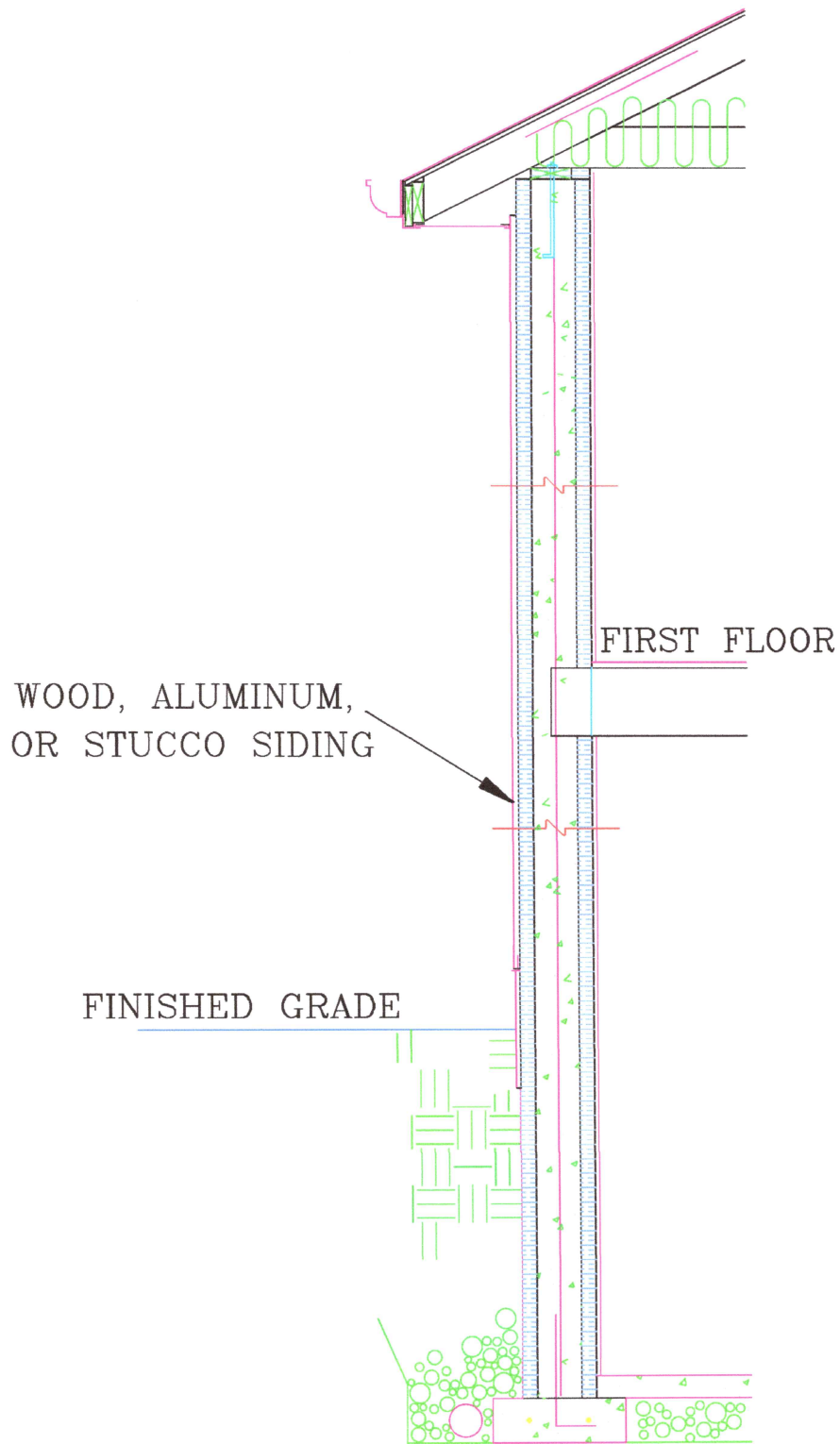
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Vertical Reinforcement For 8” Consulform Residential Construction
Bar Sizes For 8” Consulform Industrial Building Walls
Bar sizes For Consulform Lintels And Stirrup Requirements



Consulwal	Date	01/01/15		
Typical Full Height Wall With Brick Veneer				
	CTI - 100.01			



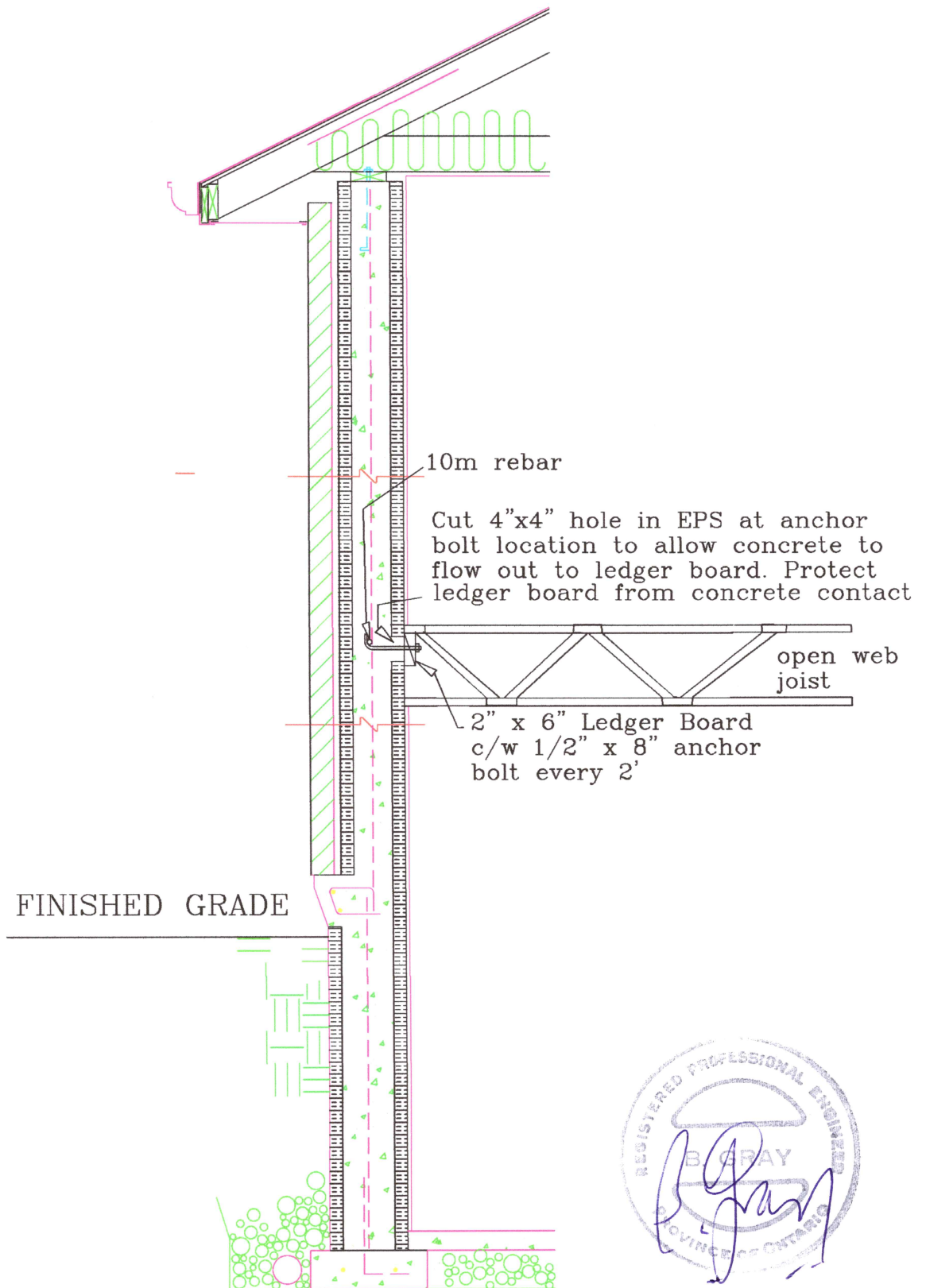
Consulwal

Date

01/01/15

Typical Full Height Wall With
Wood, Aluminum, or
Stucco Siding

CTI - 100.02



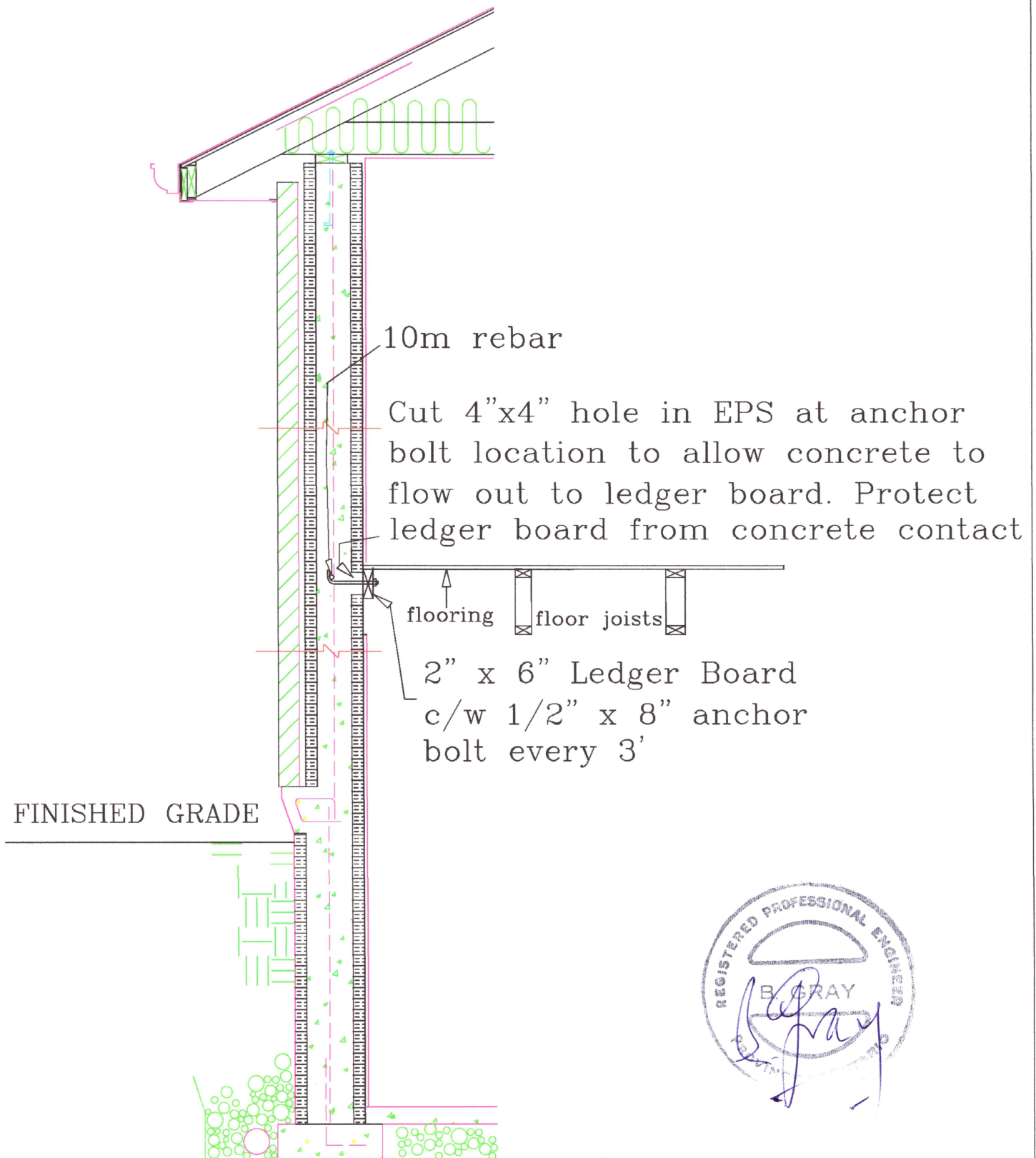
Consulwal

Date

01/01/15

Open Web Joist Connection

C - 100.04



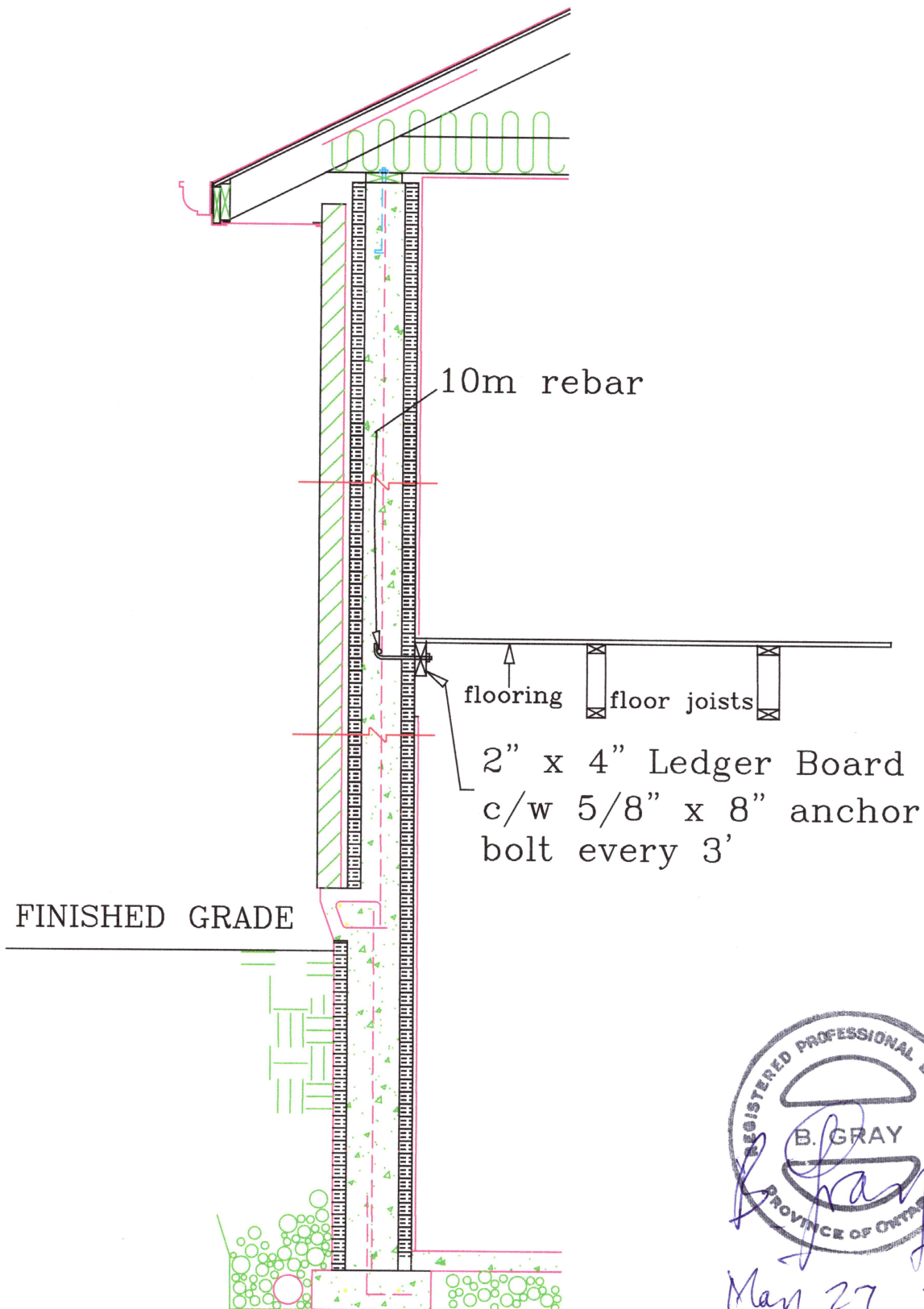
Consulwal

Date

01/01/15

Floor connection to wall
running parallel with joist

C - 100.05



May 27, 2019.

Consulwal

Floor connection to wall
running parallel with joist
typical floor connection

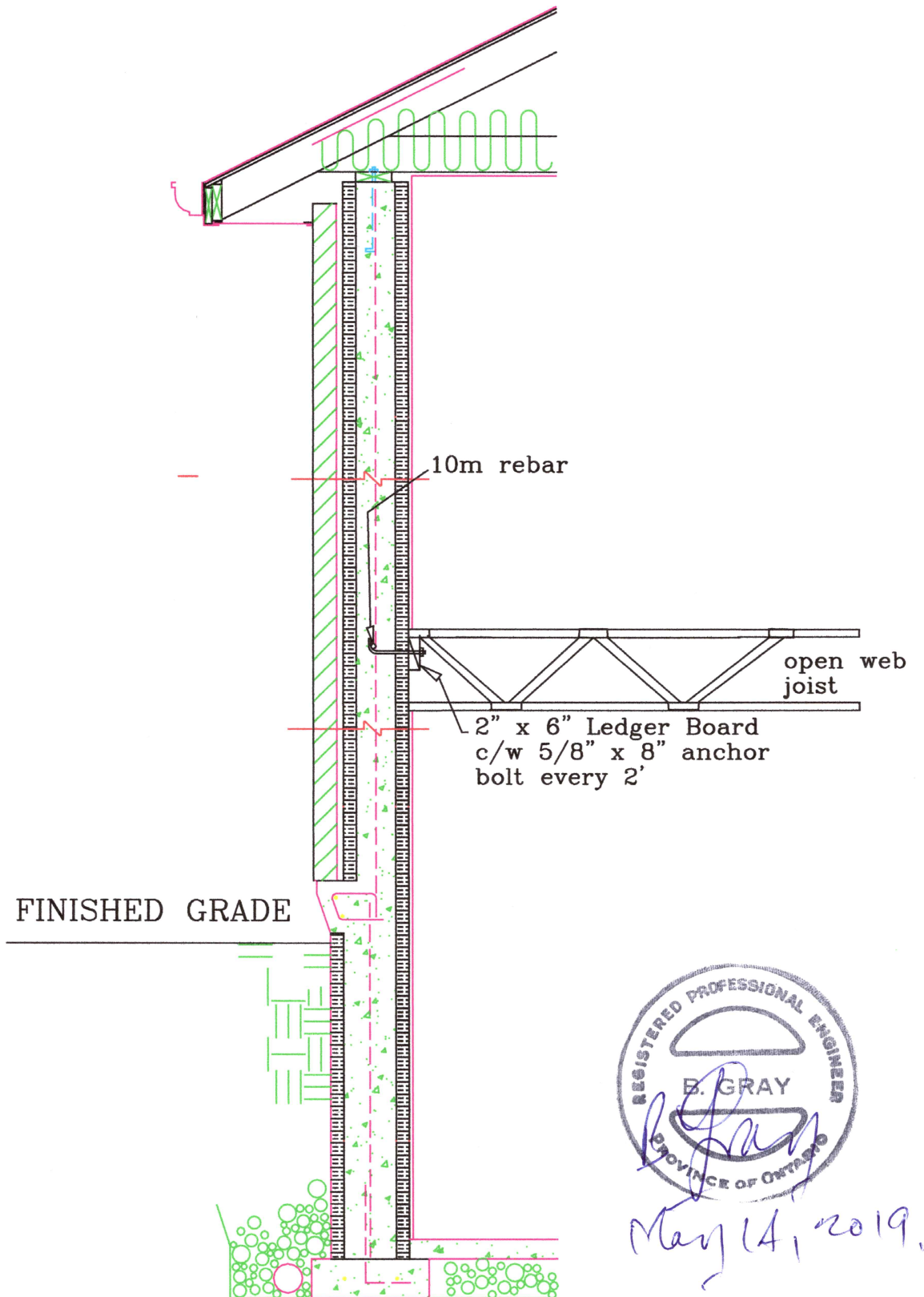
Date

01/01/19

05/27/19

revised

C - 100.06



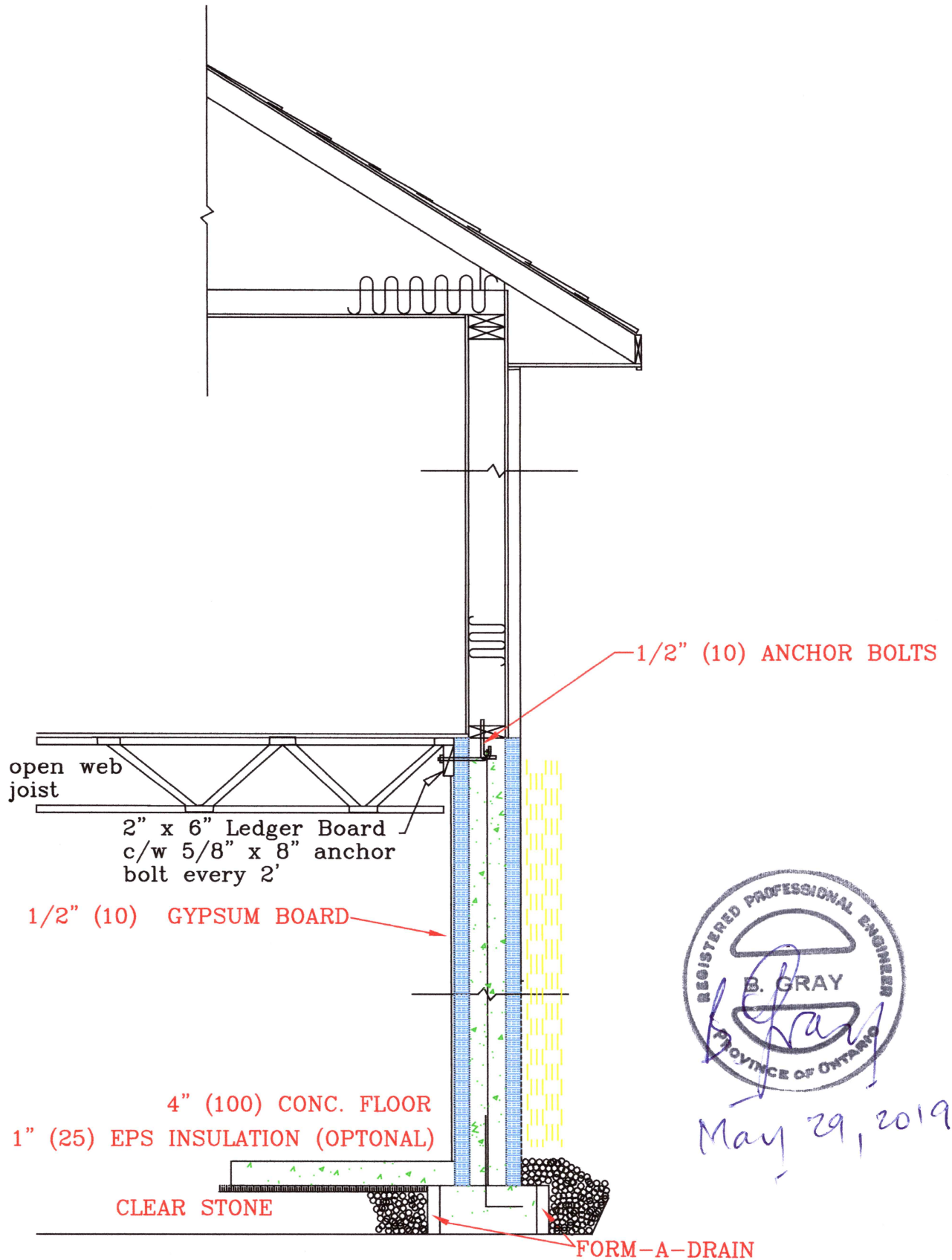
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Date

01/01/19

Open Web Joist Connection

C - 100.07



May 29, 2019

Consulwal

Date

01/01/19

ALTERNATE FLOOR CONNECTION
FOR ICF BASEMENT ONLY

C - 100.08

FLASHING INSERTED
IN BLOCK JOINT
FASTEN TO VERTICAL
STUD IN BLOCK

BRICK VENEER

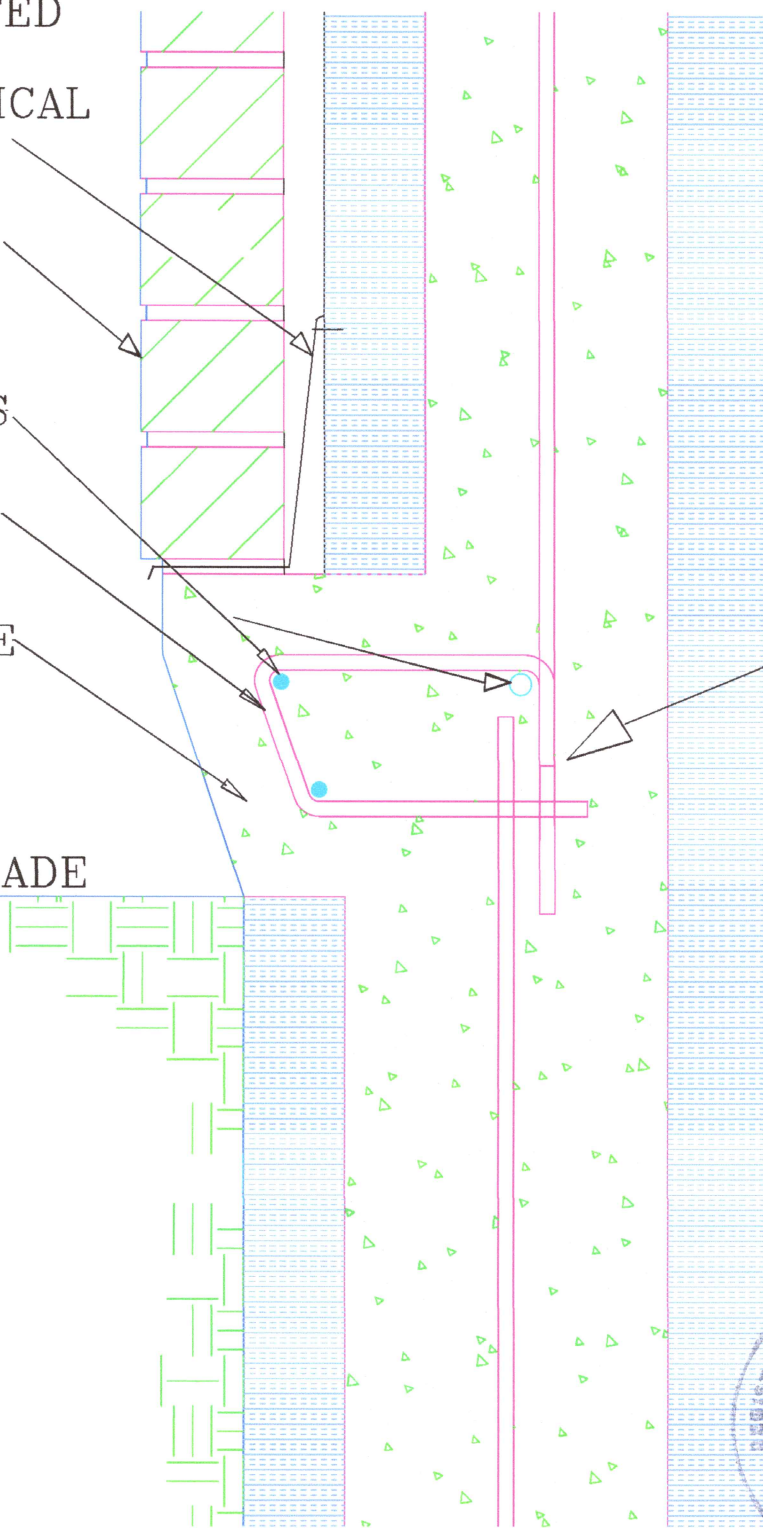
2-10M HORIZ. BARS

10M STIRRUPS
@ 12" O.C.

BRICK LEDGE

FINISHED GRADE

Vertical
rebar
overlap
30 Inches



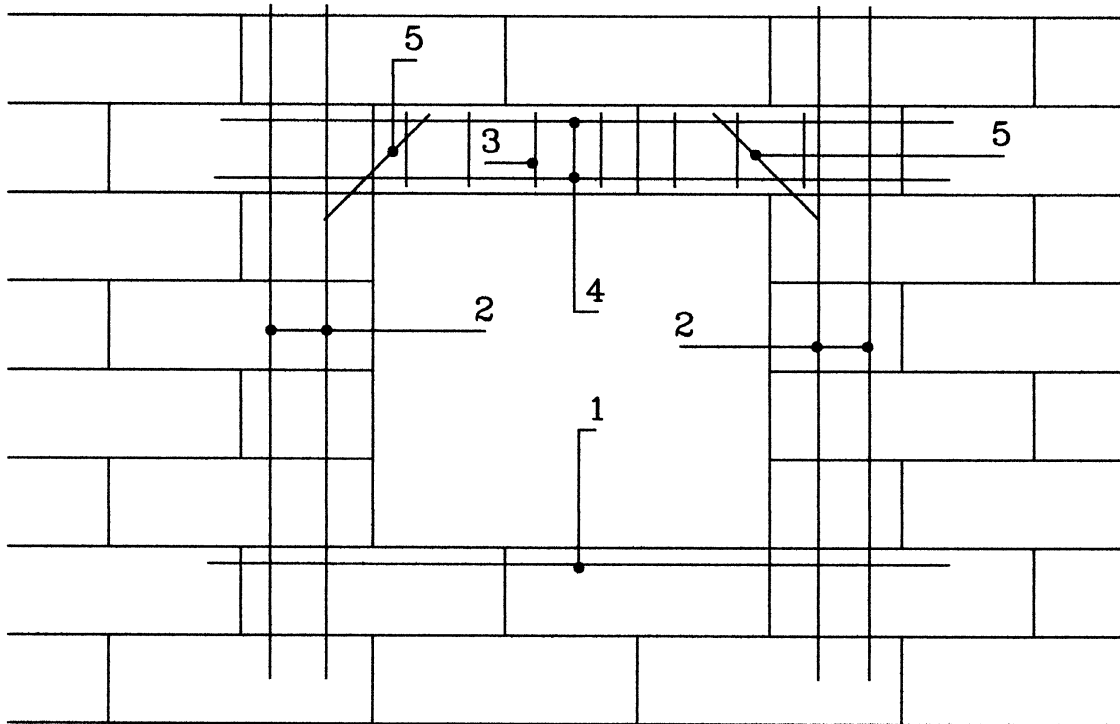
Consulwal

Date

01/01/15

Typical Brick Ledge

CTI - 200.01



REINFORCING REQUIREMENTS FOR LOAD BEARING OPENING

NOTES: ALL BARS TO HAVE 3/4" CONCRETE COVER WHERE APPLICABLE

- 1 1=10M
- 2 2=10M
- 3 10M U@12" OPENINGS OVER 6' WIDE
- 4 2=10M OPENINGS UP TO 6' WIDE
 2=10M OPENINGS 6' TO 8' WIDE
 2=10M OPENINGS 8' TO 10' WIDE
- 5 1=10M
 2=15M GARAGE OPENING UP TO 13' WIDE



THE ABOVE ARE TYPICAL DETAILS IN BUILDINGS UP TO TWO STOREYS.

FOR OPENINGS GREATER THAN ABOVE, REFER TO CONSULWAL WALL LINTEL SCHEDULE

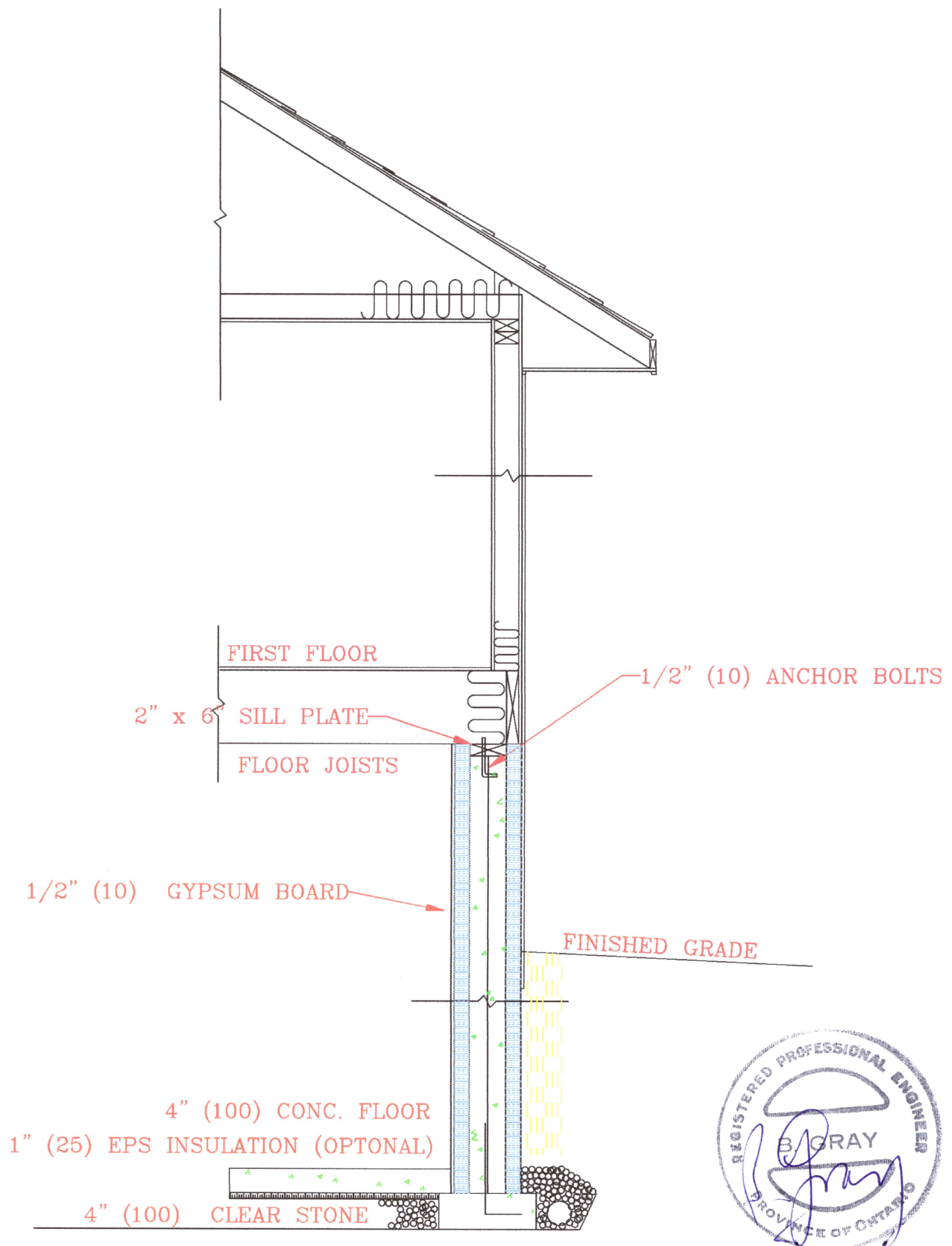
Consulwal

Date

01/01/19

Concrete Lintel Schedule

.CTI - 300.01



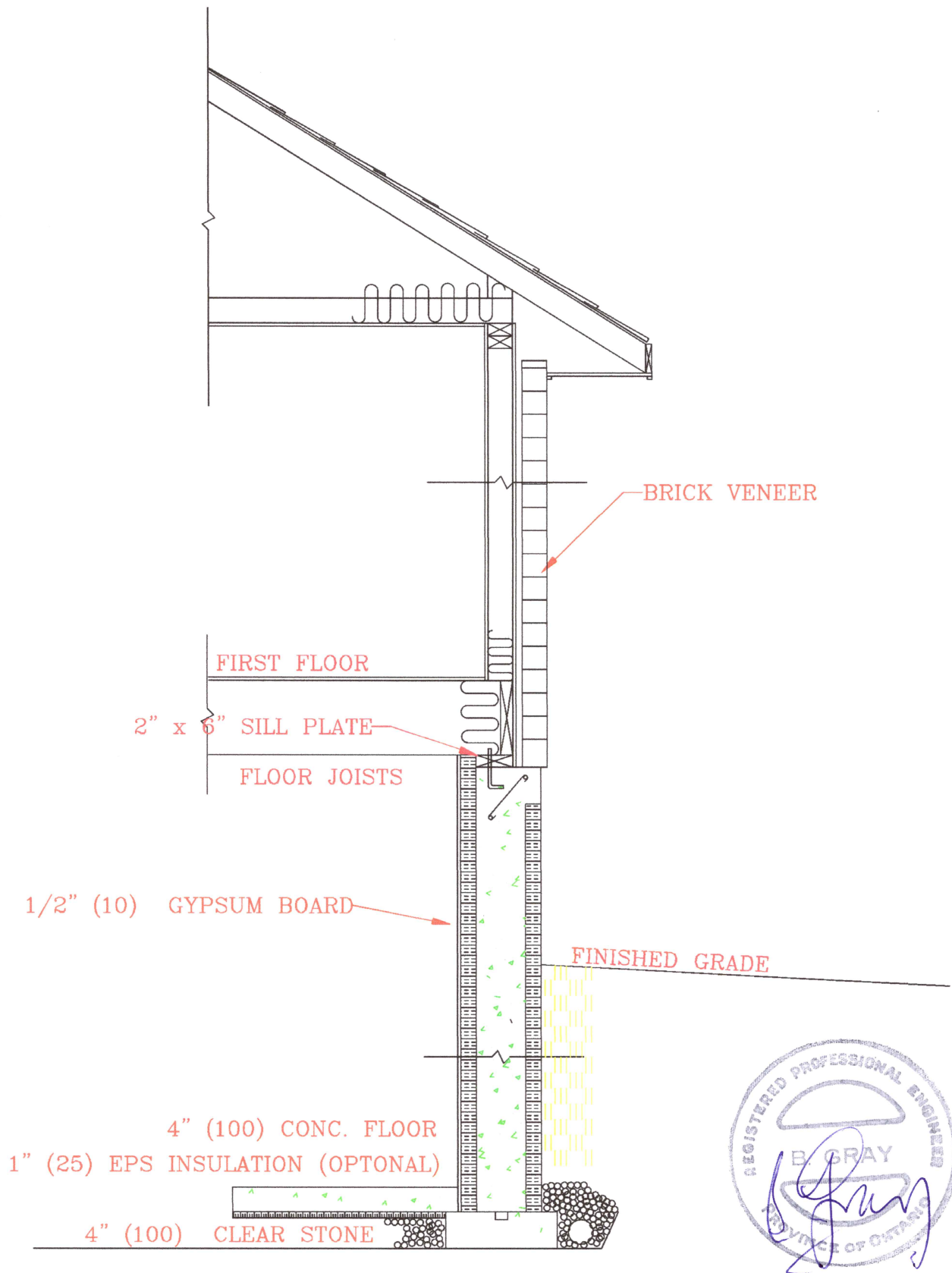
Consulwal

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01/01/15

Typical Wall Section

CTI - 400.02



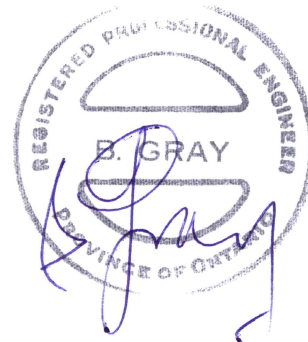
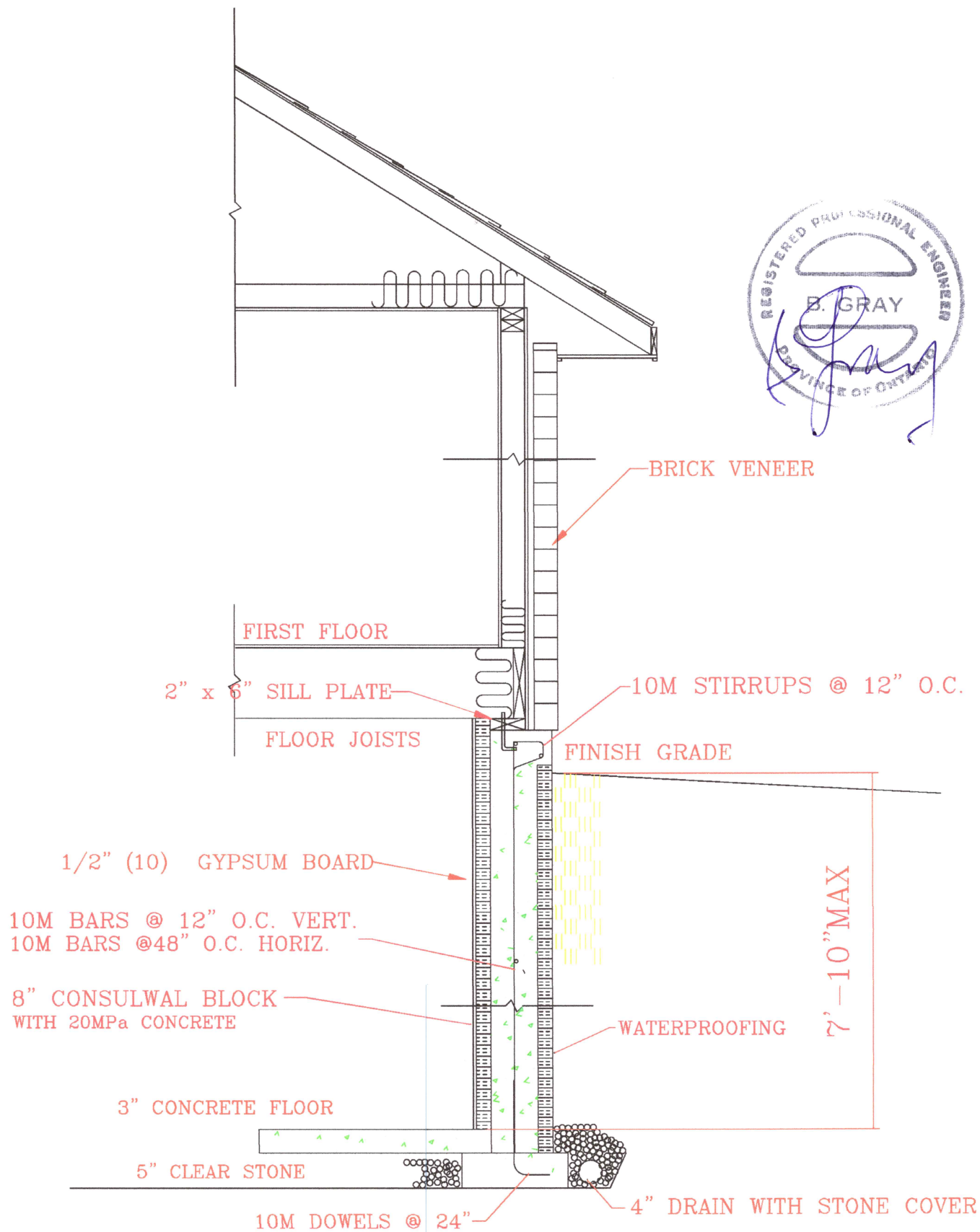
Consulwal

Date

01/01/15

Typical Wall Section
With Formed Brick Ledge

CTI - 400.03



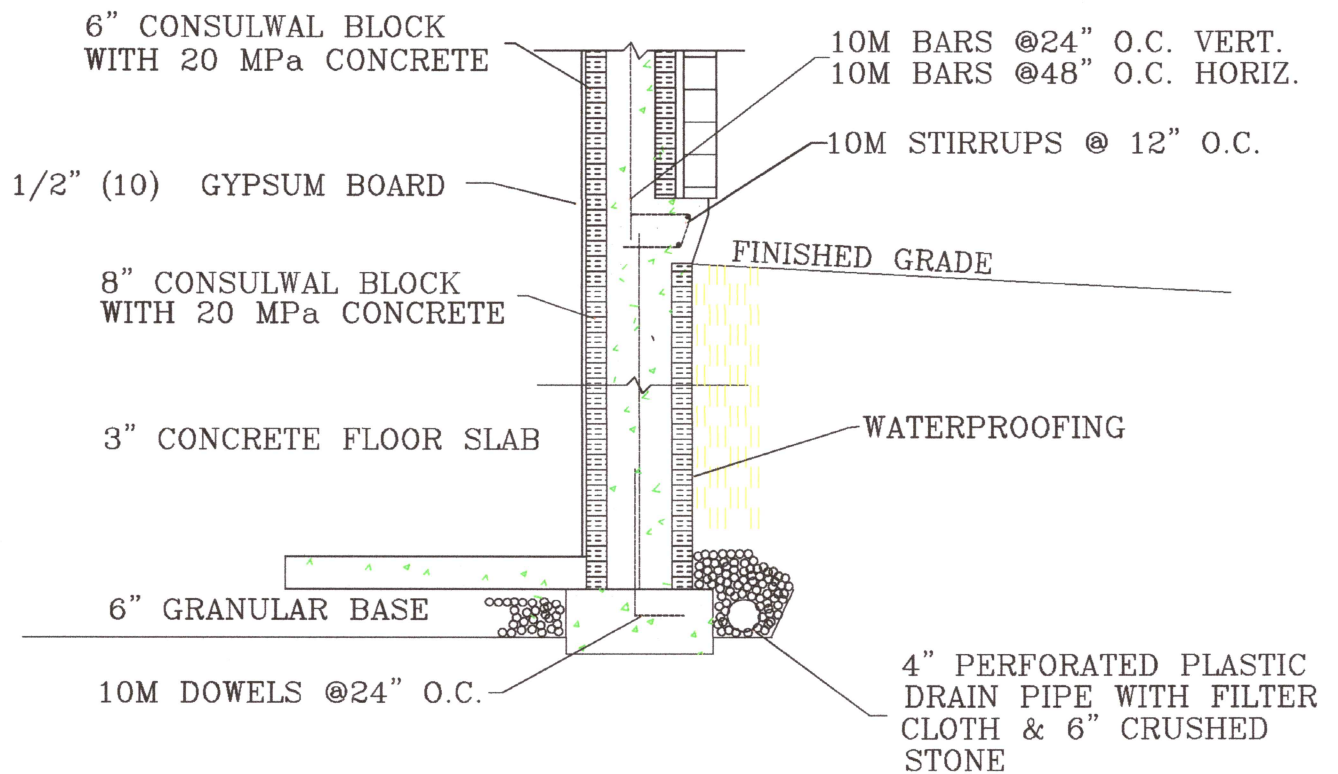
Consulwal

Date

01/01/15

Typical Basement
With Formed Brick Ledge

CTI - 400.04



Consulwal

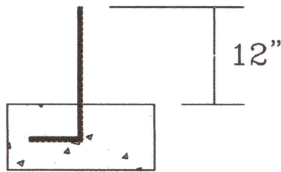
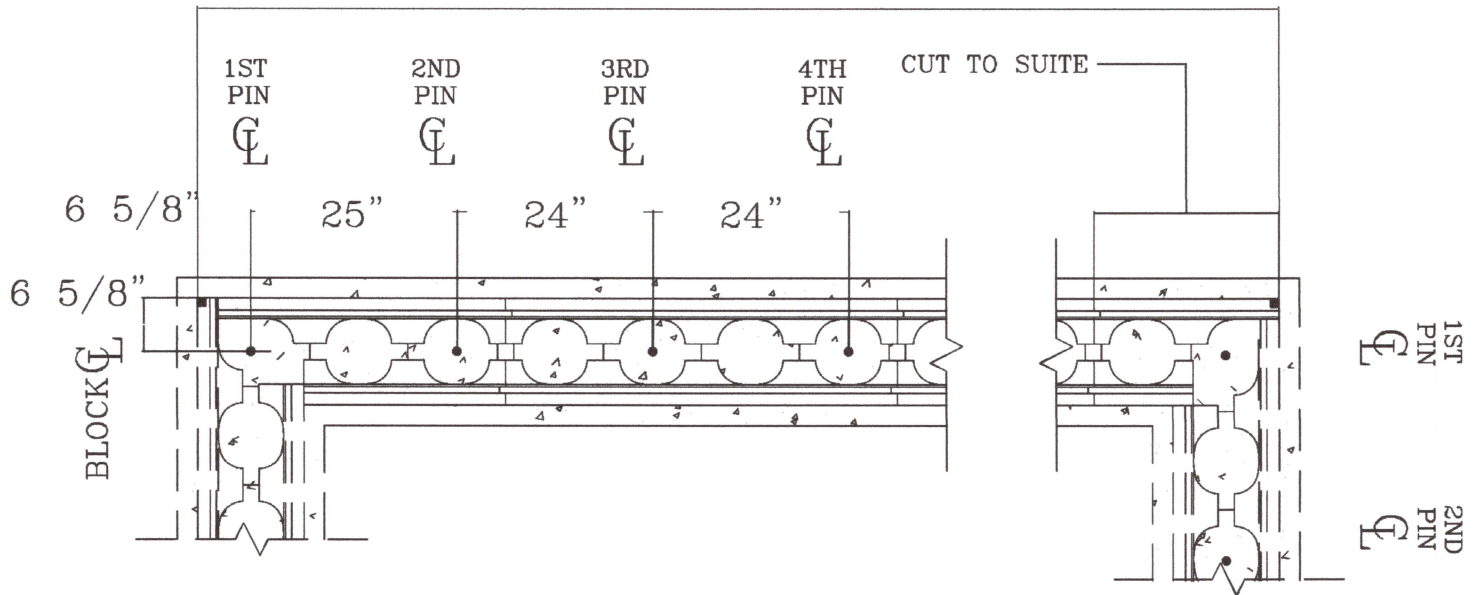
Date

01/01/15

Typical Wall Section

CTI - 400.05

LENGTH OF WALL (SURVEY BAR TO SURVEY BAR)



FOOTING PROFILE



LAYOUT NOTES:

- 1) The walls are laid out from left to right.
- 2) All dimensions are taken from the left hand side as you are facing the wall from inside of the building.
- 3) Each wall is started with a pre - cut corner on the left hand side of the wall. Blocks are then laid down from that left corner towards the right corner. The final block that is to be placed is then cut to size and placed into the pre - cut corner on the right of the wall.

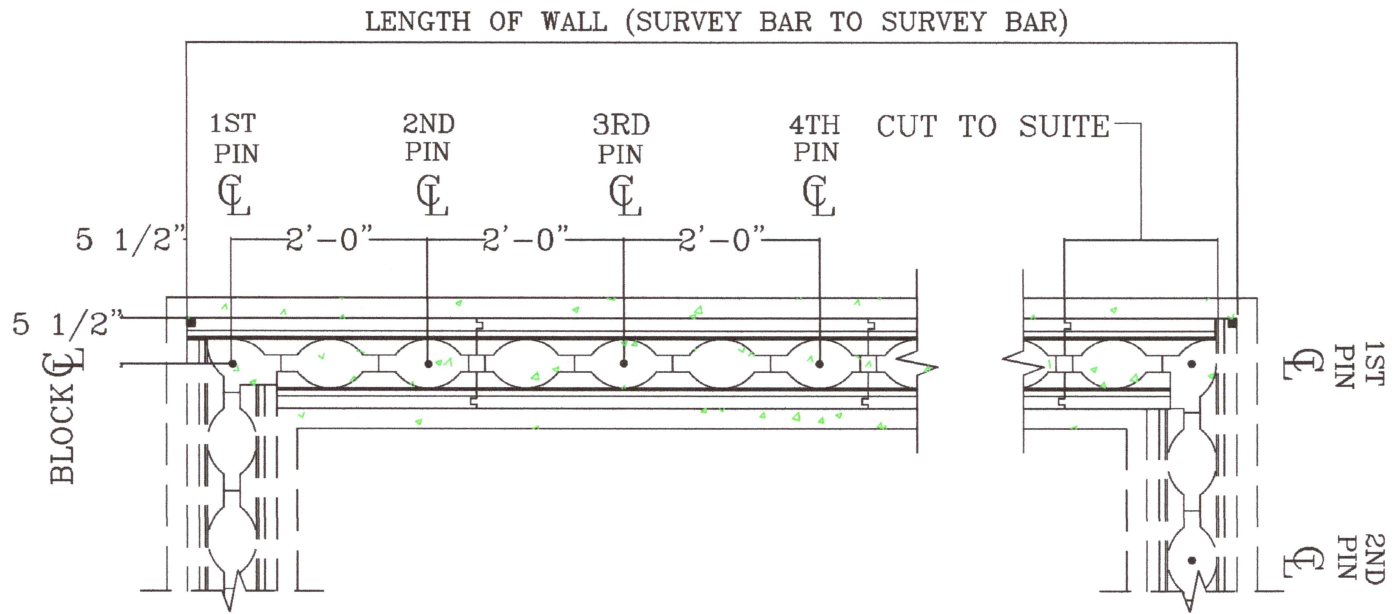
CONSULWAL

Date

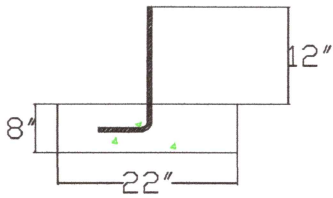
01/01/15

OUTSIDE CORNER LAYOUT DETAIL
FOR 8" WALLS

CTI - 500.03



PLAN



FOOTING PROFILE FOR 6" WALL



LAYOUT NOTES:

- 1) The walls are laid out from left to right.
- 2) All dimensions are taken from the left hand side as you are facing the wall from inside of the building.
- 3) Each wall is started with a pre-cut corner on the left hand side of the wall.
Blocks are then laid down from that left corner towards the right corner. The final block that is to be placed is then cut to size and placed into the pre-cut corner on the right of the wall.

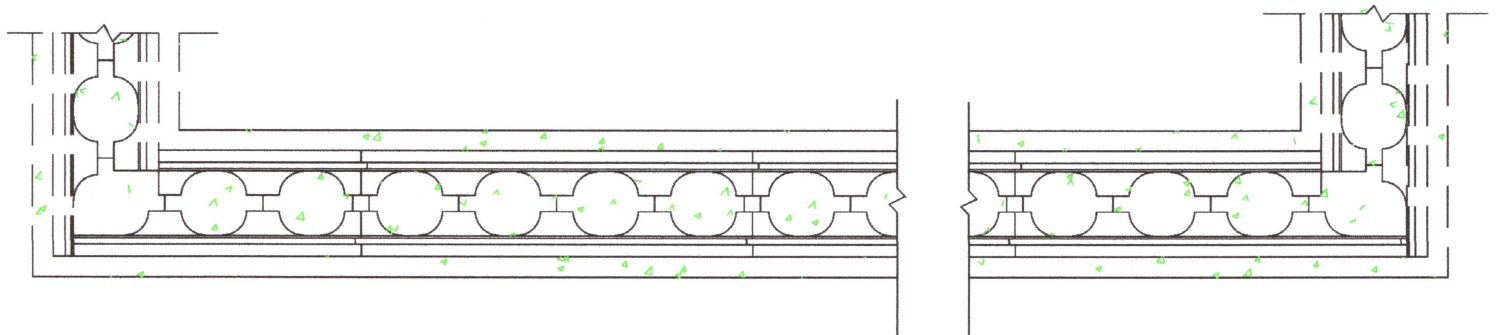
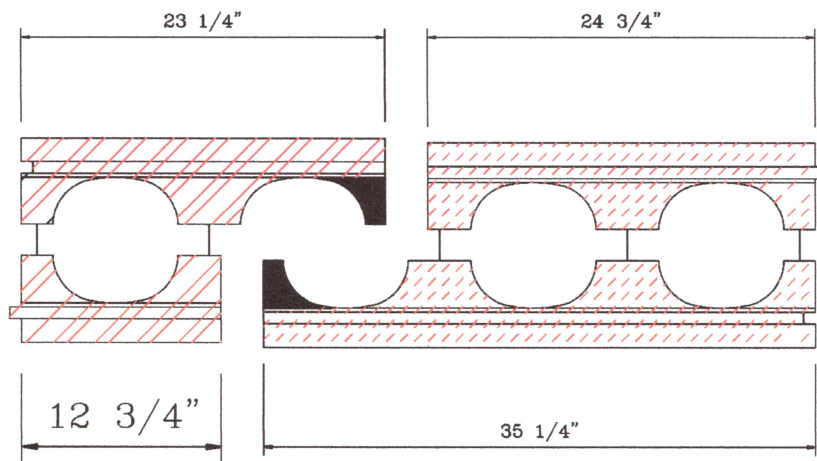
CONSULWAL

Date

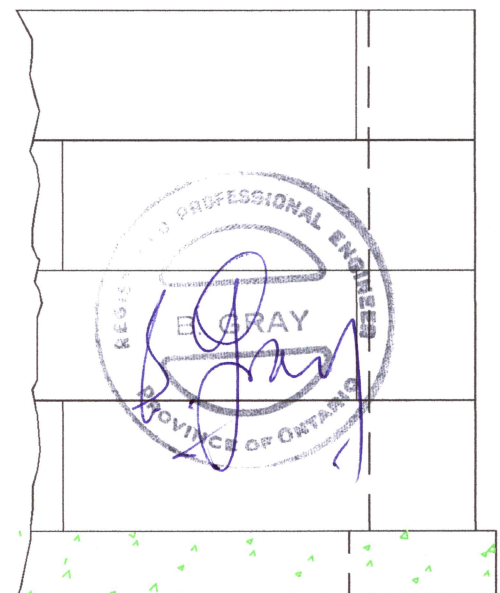
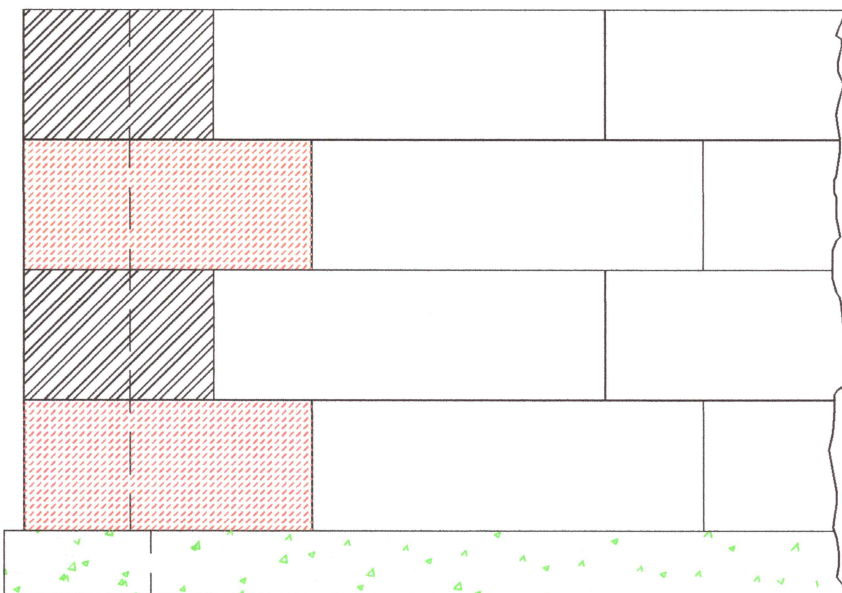
01/01/15

CORNER LAYOUT DETAIL
FOR 6" WALL

CTI - 500.04



PLAN



PROFILE

Consulwal

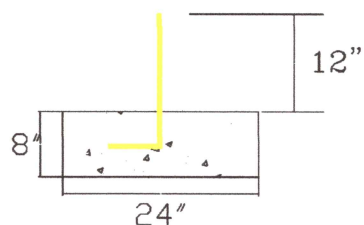
Date

01/01/15

Corner Cut for 8" Blocks
for Inside Corner

CTI — 500.05

Architectural plan view of a window assembly. The drawing shows a horizontal section with four circular pins labeled "1ST PIN", "2ND PIN", "3RD PIN", and "4TH PIN". Each pin has a centerline symbol. Dimensions are indicated: "25\"", "24\"", and "24\"". A vertical dimension on the left is "6 5/8\"". A horizontal dimension at the bottom is "6 5/8\"". A note "CUT TO SUITE" with a leader line points to the right side of the assembly. The word "PLAN" is centered below the drawing.



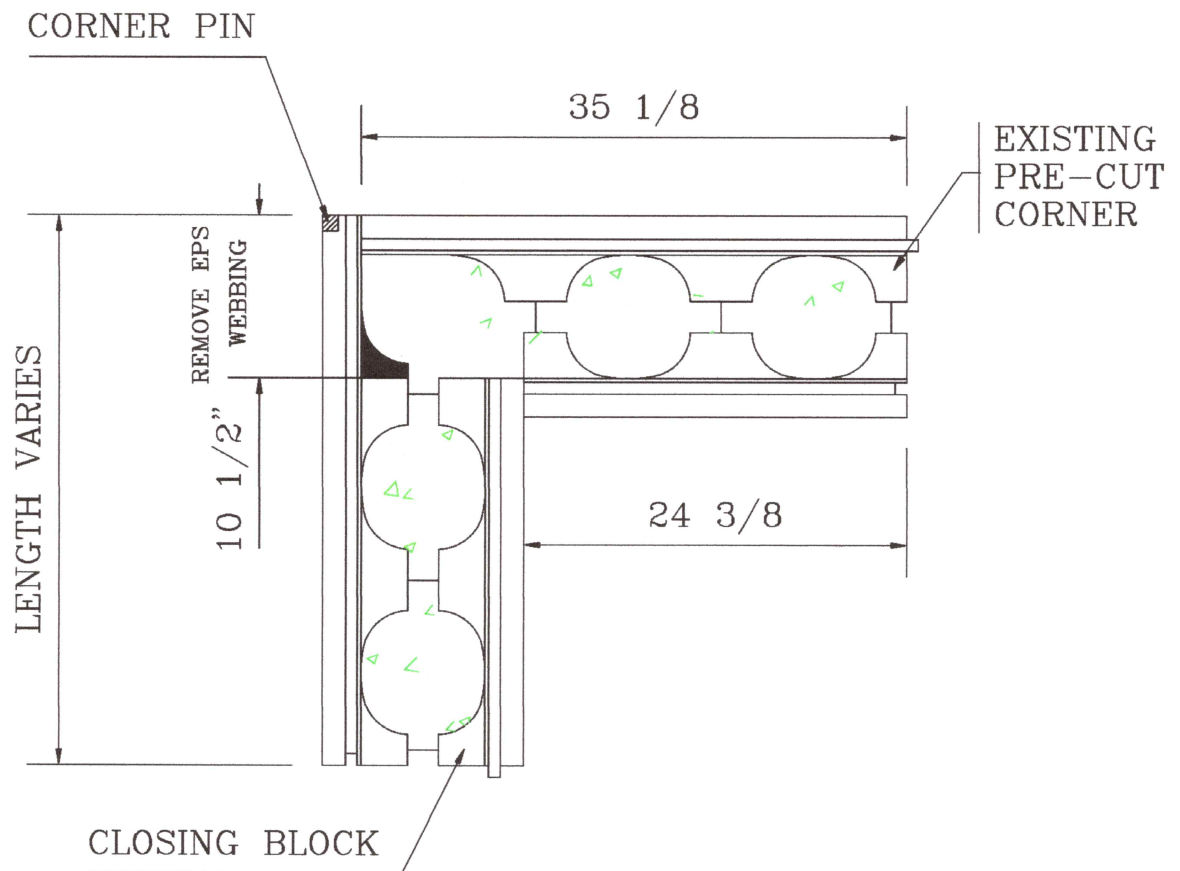
FOOTING PROFILE FOR 8" WALLS



LAYOUT NOTES:

- 1) The walls are laid out from left to right.
- 2) All dimensions are taken from the left hand side as you are facing the wall from inside of the building.
- 3) Each wall is started with a pre - cut corner on the left hand side of the wall. Blocks are then laid down from that left corner towards the right corner. The final block that is to be placed is then cut to size and placed into the pre - cut corner on the right of the wall.

Consulwal	Date	01/01/15		
INSIDE CORNER LAYOUT DETAIL FOR 8" WALLS				
	CTI - 500.06			



■ REMOVE EPS WEBBING FROM THE CLOSING BLOCK WITHIN THE 10 1/2" AS SHOWN ON THE DRAWING.



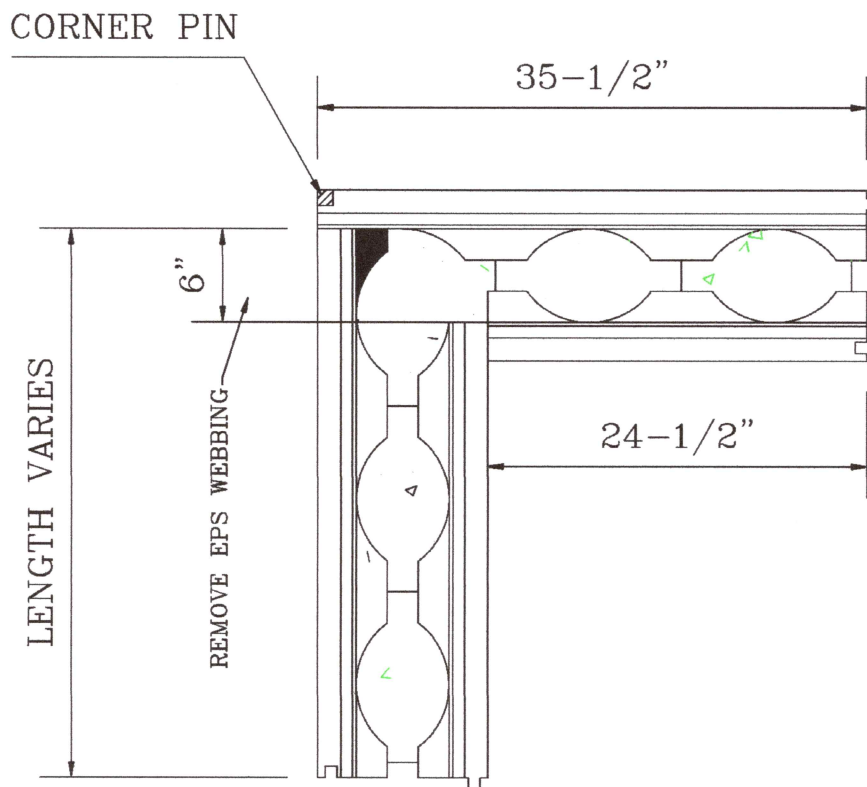
Consulwal

Date

01/01/15

Closing Cut Into Existing
8" Outside Corner Block

CTI - 500.07



■ REMOVE EPS WEBBING FROM THE CLOSING BLOCK
WITHIN THE 6" AS SHOWN ON THE DRAWING



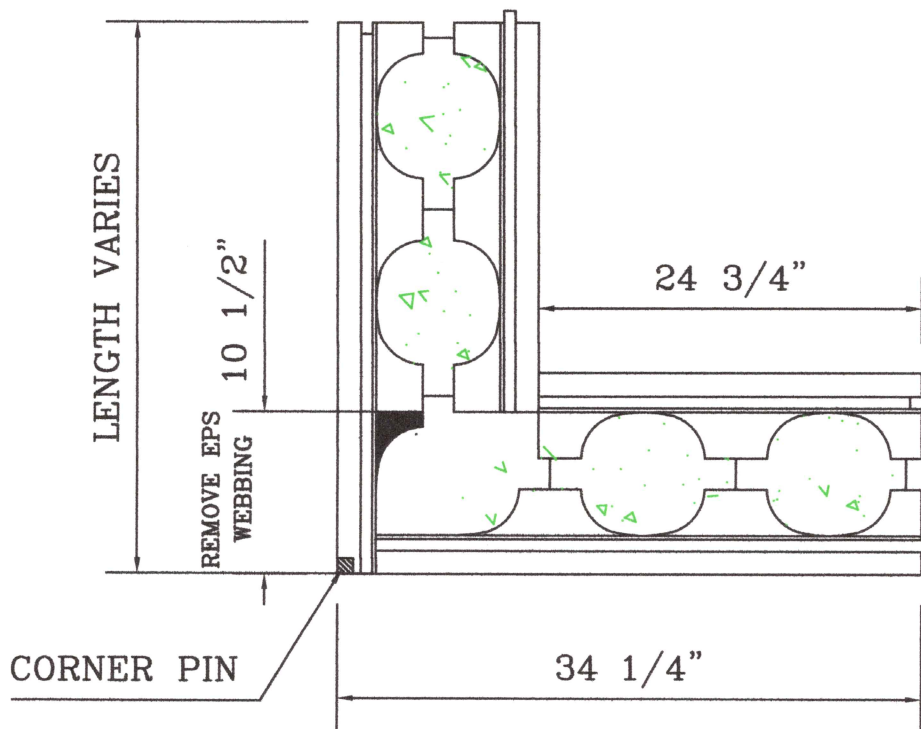
Consulwal

Date

01/01/15

Closing Cut Into Existing
6" Outside Corner Block

CTI - 500.08



REMOVE EPS WEBBING FROM THE CLOSING BLOCK
 WITHIN THE 10 1/2" AS SHOWN ON THE DRAWING.



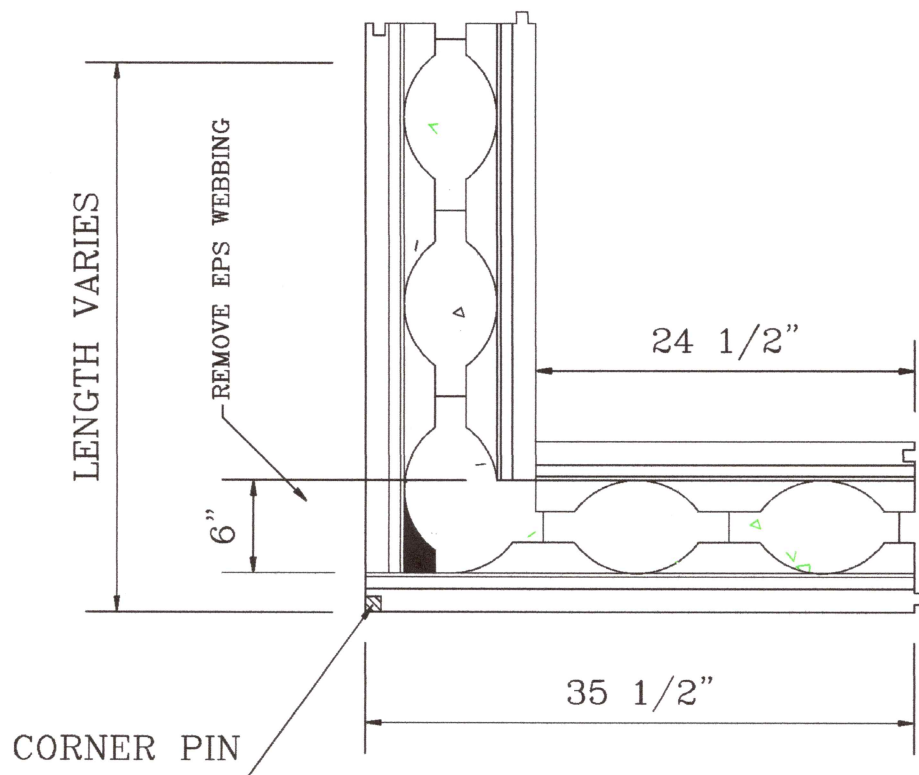
Consulwal

Date

01/01/15

Closing Cut Into Existing
8" Inside Corner Block

CTI - 500.09



REMOVE EPS WEBBING FROM THE CLOSING BLOCK
 WITHIN THE 6" AS SHOWN ON THE DRAWING



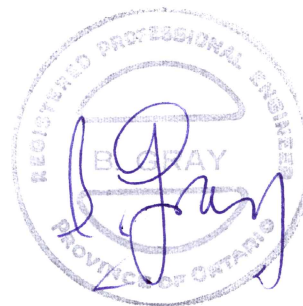
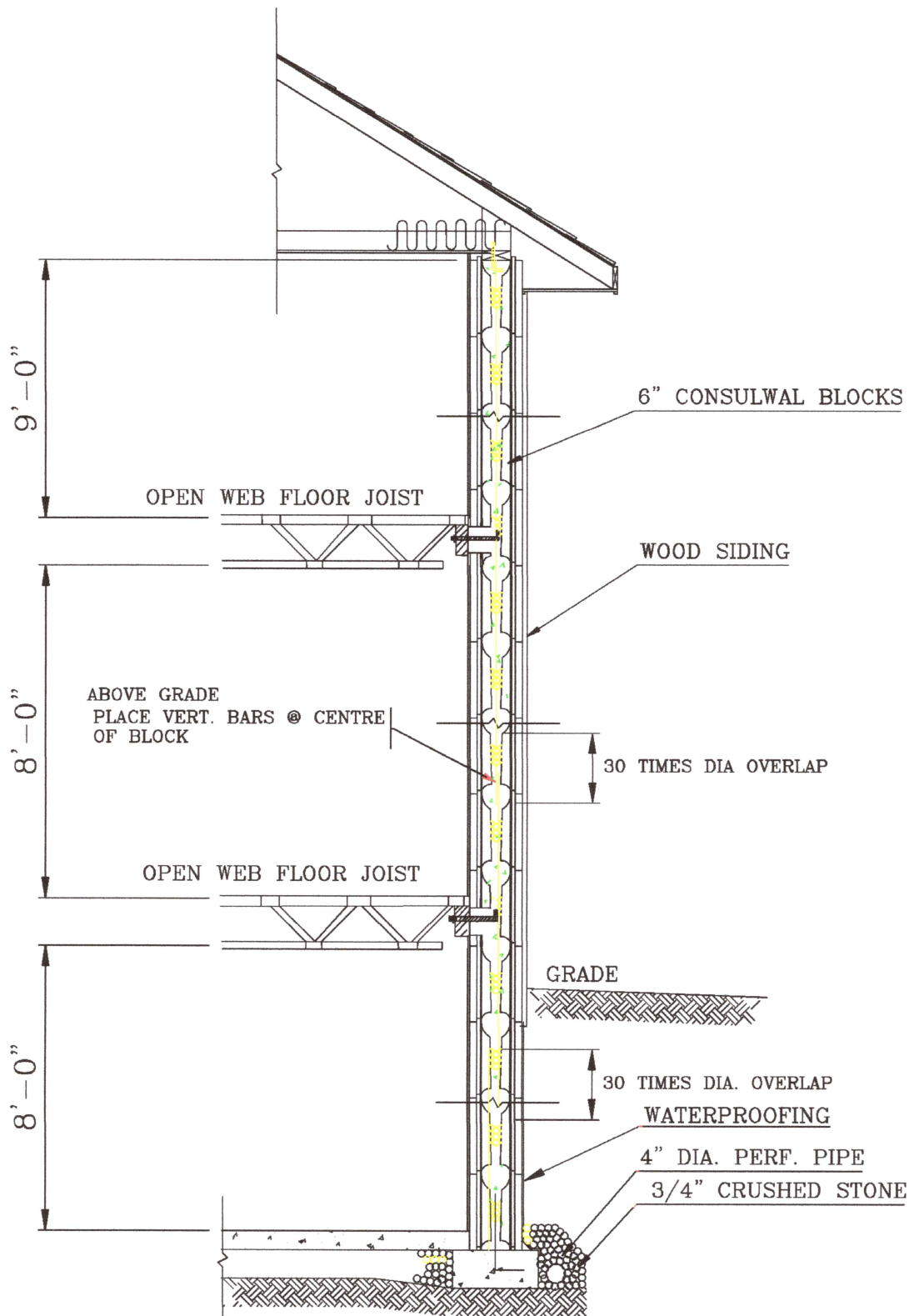
Consulwal

Date

01/01/15

Closing Cut Into Existing
6" Inside Corner Block

CTI — 500.10



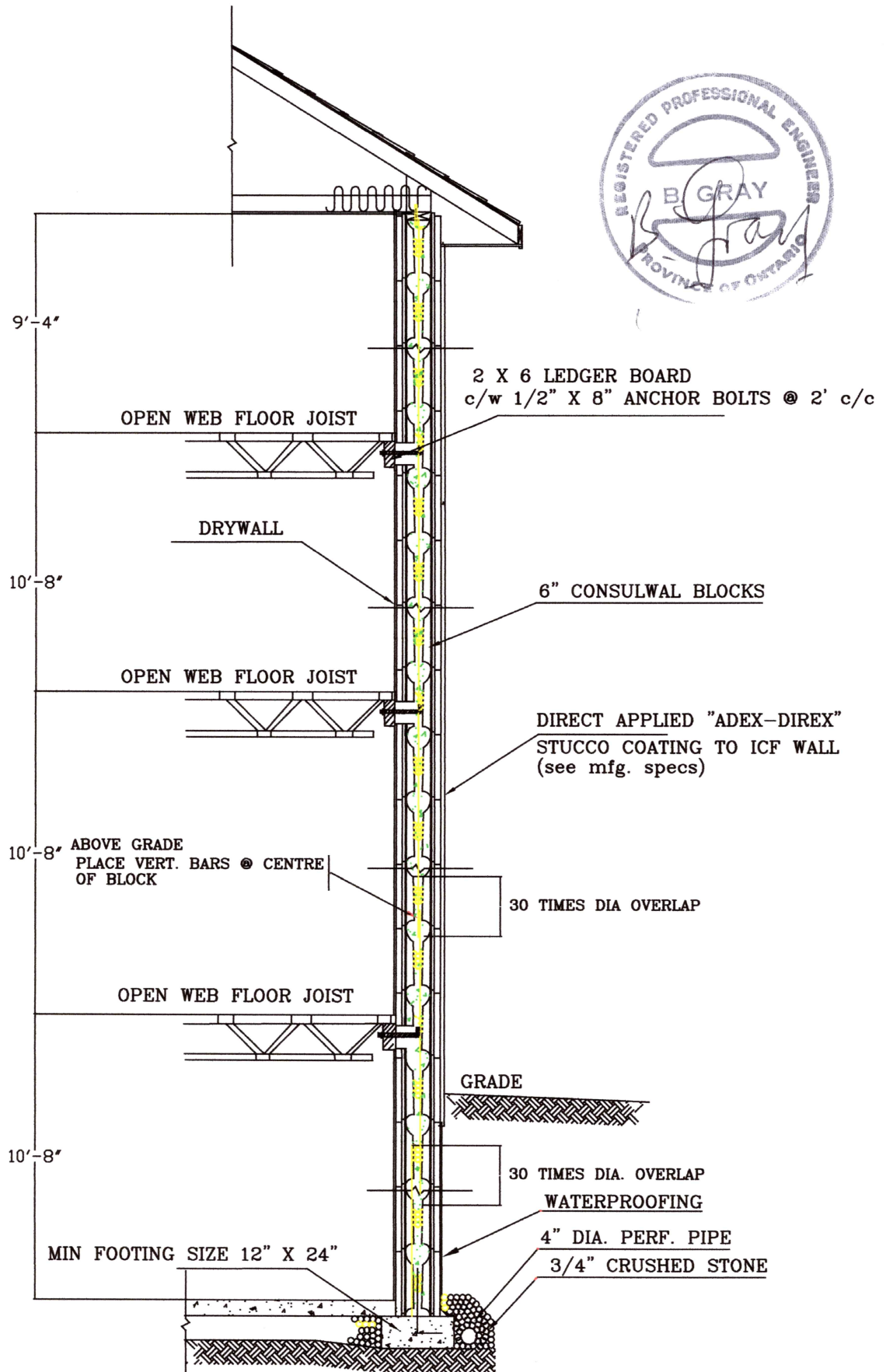
CONSULWAL

Date

01/01/15

WALL SECTION FOR 2 STOREY
AND BASEMENT FOR HOUSE

CTI - 900.02



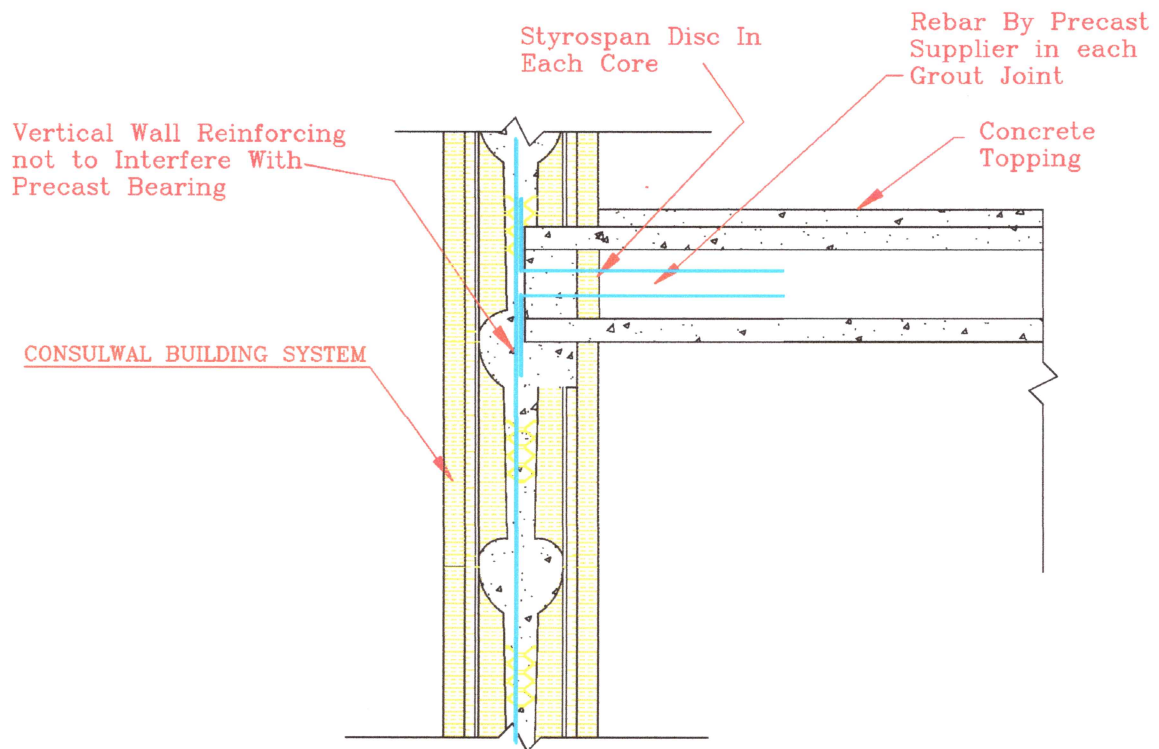
Consulwal

Date

07/01/18

WALL SECTION FOR 3 STOREY
AND BASEMENT FOR APARTMENT

CTI - 900.03



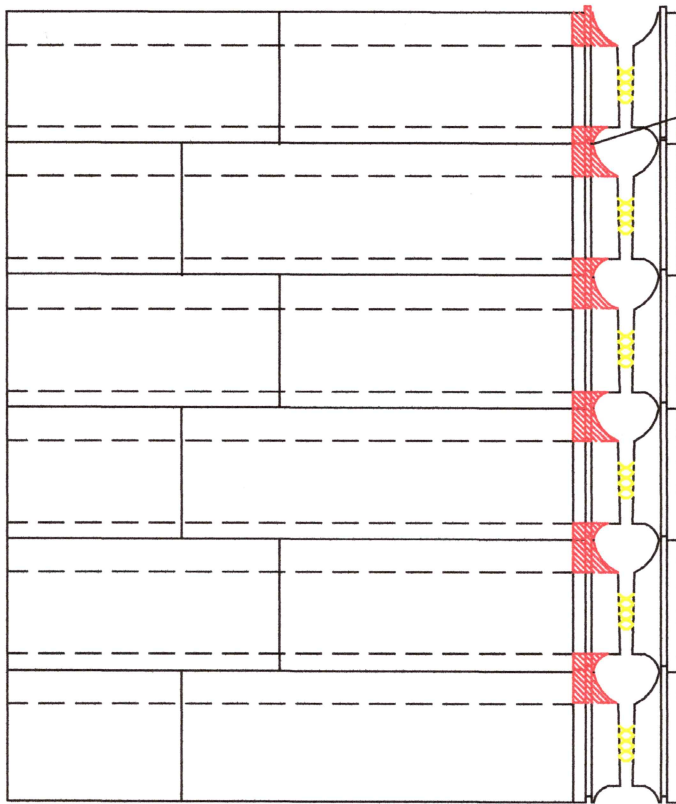
CONSULWAL

Date

01/01/15

Precast Floor Connection
To Consulwal

CTI -900.04



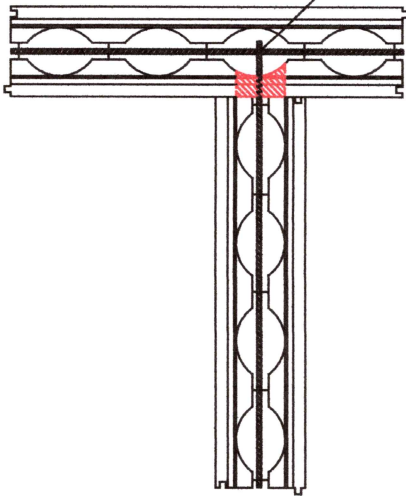
Remove EPS at horizontal cores to allow concrete to pass through



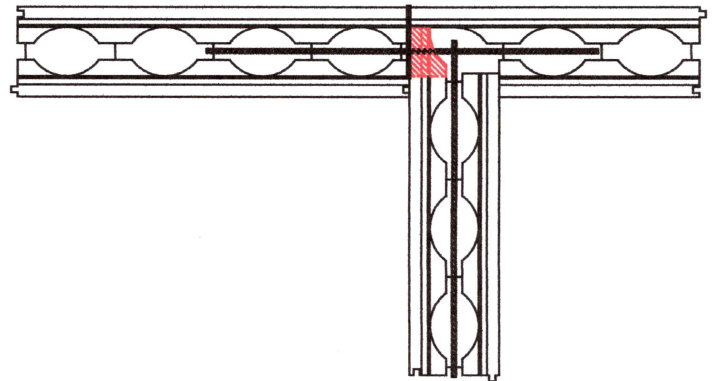
May 14, 2019

Wall Elevation

Rebar to be placed as per the horizontal rebar schedule



T-Wall Connection



End Wall Connection

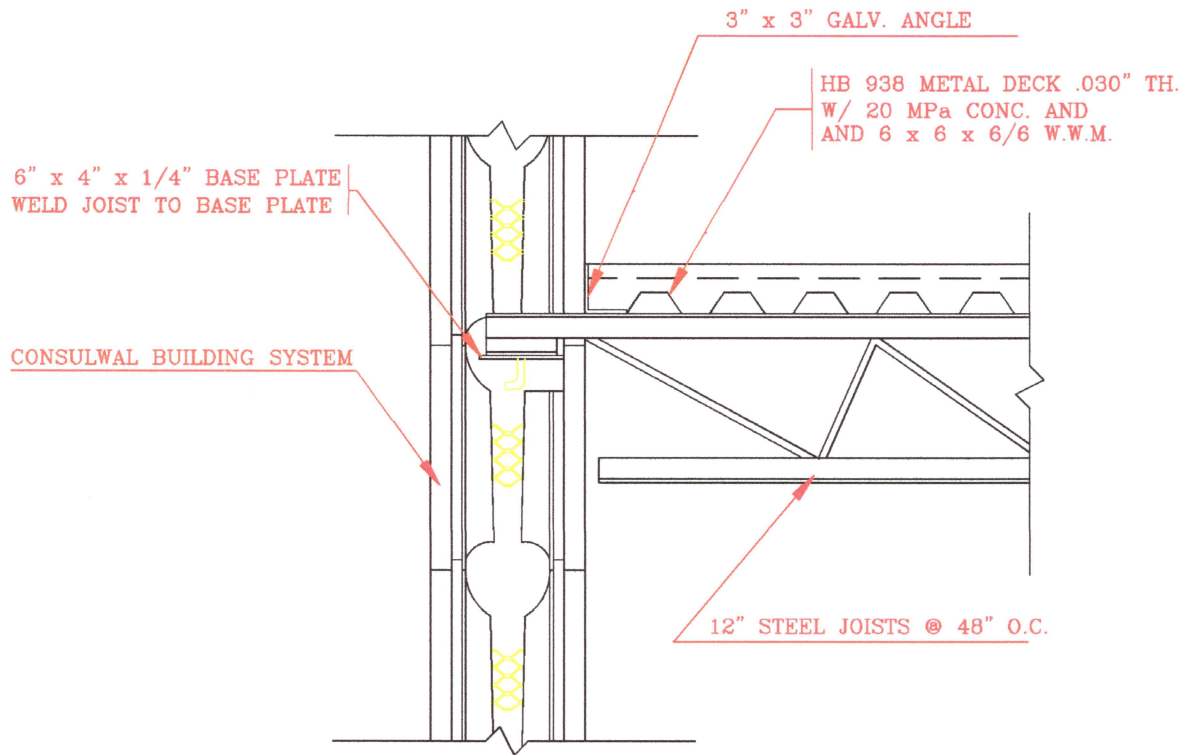
Consulwal

Date

01/01/19

T-Wall Connection and
End Wall Connection

CTI - 900.07



CONCRETE FLOORS WITH STEEL JOISTS

SCALE: 1/2" = 1'



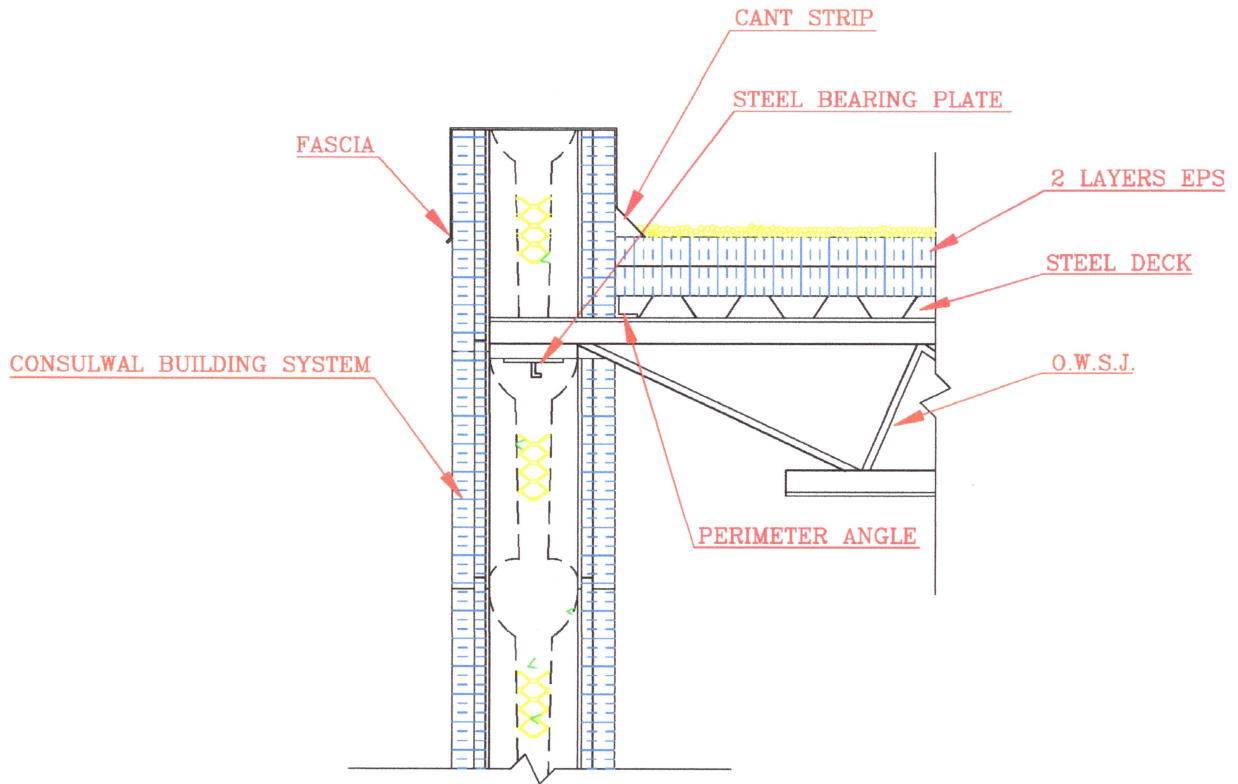
CONSULWAL

Date

01/01/15

Concrete Floors With Steel Joists

CTI -1000.01



FLAT ROOF CONNECTION

SCALE: 1/2" = 1'



Consulwal

Date

01/01/15

FLAT ROOF CONNECTION

CTI - 1000.02

CONSULWAL

"A One-Step Wall Forming & Insulating System"

VERTICAL REINFORCEMENT FOR 6" (150mm) CONSULFORM RESIDENTIAL BASEMENT CONSTRUCTION

Average Height of Backfill		Clear Height of Basement		
feet	meters	7.5 ft/2.28 m	8.0 ft/2.44 m	9.0 ft/2.74 m
5.0ft	1.52m	10M @ 24 in./ 610mm	10M @ 24 in. / 610mm	10M @ 24 in. / 610mm
5.5ft	1.68m	15M @ 24 in./ 610mm	15M @ 24 in./ 610mm	15M @ 24 in./ 610mm
6.0ft	1.83m	10M @ 12 in./305mm	10M @ 12 in./305mm	10M @ 12 in./305mm
6.5ft	1.98m	10M @ 12 in./305mm	10M @ 12 in./305mm	10M @ 12 in./305mm
7.0ft	2.13m	10M @ 12 in./305mm	15M @ 12 in./305mm	15M @ 12 in./305mm
7.5ft	2.29m	15M @ 12 in./305mm	15M @ 12 in./305mm	15M @ 12 in./305mm
8.0ft	2.44m	-----	15M @ 12 in./305mm	15M @ 12 in./305mm
9.0ft	2.74m	-----	-----	15M @ 12 in./305mm

NOTES:

-Ultimate strength design according to CAN3 CSA A23.3-M84 with

(a) Yield strength of steel = 400 MPa (57 Ksi)

(b) Concrete strength = 25 MPa (3600 psi) @ 28 days

(c) Unfactored soil pressure = 590 kg/m (120 lb/ft²)

(d) Wall designed as a Propped Cantilever

-When a reinforcing bar is prevented from running full height due to a small window opening, place bars on either side of the window plus use a 10M bar beneath the window.

-Place 10M bars horizontally every 4 ft. (1.2m)
i. e. every third course.



CONSULWAL

"A One-Step Wall Forming & Insulating System"

BAR PLACEMENT FOR 6 INCH CONSULFORM WALLS WITH NO OPENINGS

(for 1 or 2 storey residential housing)

Average Height (ft)	Bar Spacing (feet)			
	1 foot	2 foot	3 foot	4 foot
8.0	-	-	-	10M
8.5	-	-	-	10M
9.0	-	-	10M	15M
9.5	-	-	10M	15M
10.0	-	-	10M	15M
10.5	-	10M	15M	x
11.0	-	10M	15M	x
11.5	-	10M	15M	x
12.0	-	10M	15M	x
12.5	10M	15M	x	x
13.0	10M	15M	x	x
13.5	10M	15M	x	x
14.0	10M	15M	x	x

NOTES:

-4 feet is the maximum spacing recommended for bar placement.

-x indicates use closer bar spacing at these heights.

-Ultimate strength design is based on the following parameters:

(a) Yield strength of steel = 400 MPa (57Ksi)

(b) Concrete strength = 25 MPa (3600 psi) @ 28 days

(c) Unfactored wind pressure = 25 psf

(d) Wall simply supported top and bottom

(e) Reinforcement located at centre of wall

-Place 10M bars horizontally every 4 feet (every third course)



Jan 1, 2022.

CONSULWAL

"A One-Step Wall Forming & Insulating System"

BAR SIZES FOR 8 INCH CONSULWAL INDUSTRIAL BUILDING WALLS

Unfactored Wind Pressure (psf)	Building Height (feet)						
	8'	10'	12'	14'	16'	18'	20'
15.0	10M es	10M es	10M es	10M es	10M es	10M es	15M es
17.5	10M es	10M es	10M es	10M es	10M es	15M es	15M es
20.0	10M es	10M es	10M es	10M es	10M es	15M es	15M es
22.5	10M es	10M es	10M es	10M es	15M es	15M es	10M e
25.0	10M es	10M es	10M es	10M es	15M es	15M es	10M e
27.5	10M es	10M es	10M es	10M es	15M es	10M e	10M e
30.0	10M es	10M es	10M es	15M es	15M es	10M e	15M e
32.5	10M es	10M es	10M es	15M es	10M e	10M e	15M e
35.0	10M es	10M es	10M es	15M es	10M e	15M e	15M e
37.5	10M es	10M es	10M es	15M es	10M e	15M e	15M e
40.0	10M es	10M es	15M es	15M es	10M e	15M e	15M e
42.5	10M es	10M es	15M es	10M e	10M e	15M e	2-10M
45.0	10M es	10M es	15M es	10M e	15M e	15M e	2-10M
47.5	10M es	10M es	15M es	10M e	15M e	15M e	2-10M
50.0	10M es	10M es	15M es	10M e	15M e	15M e	2-10M

NOTES:

-Ultimate strength design for bar sizes based on the following parameters:

- (a) Yield strength of steel = 400 MPa (57 Ksi)
- (b) Concrete strength = 25 MPa (3600 psi) @ 28 days
- (c) Wall simply supported top and bottom
- (d) Equivalent vertical core size of 7 inch thickness by 7-9/16 inch width, thus depth of steel, $d = 7/2 = 3.5$ inches and width, $b = 7.5625$ inches
- (e) Unfactored wind pressure – 25 psf

- 'es' means every second core
 'e' means every core

-Place 10M bars horizontally every 2nd course.



CONSUL WALL

"A One-Step Wall Forming & Insulating System"

Bar Sizes for Consulform Lintels
AND STIRRUP REQUIREMENTS (16 inch height)

Truss Length (feet)	Lintel Length (feet)															
	4'	6'	7'	8'	9'	10'	11'	12'	13'	14'	15'	16'	18'	20'		
6.0	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	
8.0	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	
10.0	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	
12.0	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	
14.0	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	
16.0	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	
18.0	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	
20.0	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	
22.0	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	
24.0	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	
26.0	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	
28.0	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	
30.0	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	
32.0	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	
34.0	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	
36.0	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	
38.0	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	
40.0	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	
42.0	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	
44.0	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	
46.0	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	
48.0	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	
50.0	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	10M	

NOTES:

- Bars to the right of the solid line require 6 inch U-stirrups, each cell.
- Same bar at top and bottom of 16 inch Consulform for lintels situations, for continuous lintel with walls on both ends. Place these top and bottom bars at 2 inches from the top and bottom of the lintel, respectively.
- Design based on 400 MPa (57 ksi) steel, 25 MPa (3600 psi) concrete @ 28 days and an unfactored dead load of 70 lb/ft + (16.35 psf times 1/2 the truss length).



CONSUL WAL

"A One-Step Wall Forming & Insulating System"

VERTICAL REINFORCEMENT FOR 8" (200mm) CONSULFORM RESIDENTIAL BASEMENT CONSTRUCTION

Average Height of Backfill		Clear Height of Basement		
feet	meters	7.5 ft/2.28 m	8.0 ft/2.44 m	11.0 ft/3.35 m
5.5ft	1.68m	10M @ 24 in./ 610mm or 15M @ 36 in./914mm	10M @ 24 in. / 610mm or 15M @ 48 in./1219mm	15M @ 48 in./1219mm
6.0ft	1.83m	15M @ 36 in./914mm	15M @ 36 in./914mm	15M @ 36 in./914mm
6.5ft	1.98m	10M @ 12 in./305mm or 15M @ 24 in./610mm	10M @ 12 in./305mm or 15M @ 24 in./610mm	15M @ 24 in./610mm
7.0ft	2.13m	10M @ 12 in./305mm or 15M @ 24 in./610mm	10M @ 12 in./305mm or 15M @ 24 in./610mm	15M @ 24 in./610mm
7.5ft	2.29m	10M @ 12 in./305mm or 15M @ 24 in./610mm	10M @ 12 in./305mm or 15M @ 24 in./610mm	15M @ 12 in./305mm
8.0ft	2.44m	----- -----	15M @ 12 in./305mm -----	15M @ 12 in./610mm
9.0ft	2.74m	-----	-----	15M @ 12 in./610mm
10.0ft	3.05m	-----	-----	15M @ 12 in./610mm
11.0ft	3.35m	-----	-----	20M @ 12 in./610mm

NOTES:

-Ultimate strength design according to CAN3 CSA A23.3-M84 with

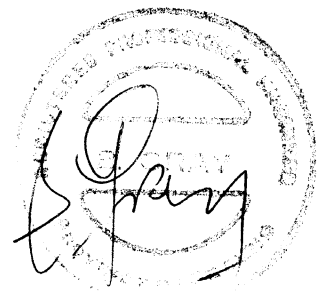
- (a) Yield strength of steel = 400 MPa (57 Ksi)
- (b) Concrete strength = 25 MPa (3600 psi) @ 28 days
- (c) Soil density = 590 kg/m (120 lb/ft²)
- (d) Wall designed as a Propped Cantilever
- (e) Reinforcement located at centre of wall

**** (f) Backfill over 8' rebar located 1" to inside of the centre of the wall****

-When a reinforcing bar is prevented from running full height due to a small window opening, place bars on either side of the window plus use a 10M bar beneath the window.

-Place 10M bars horizontally every 4 ft. (1.2m)

i. e. every third course.



CONSUL WAL

"A One-Step Wall Forming & Insulating System"

BAR PLACEMENT FOR 6 INCH CONSULFORM WALLS WITH OPENINGS (for 1 and 2 storey residential housing)

Tributary Width (feet)	Average Height (feet)												
	8.0'	8.5'	9.0'	9.5'	10.0'	10.5'	11.0'	11.5'	12.0'	12.5'	13.0'	13.5'	14.0'
1.0	-	-	-	-	-	-	-	-	-	-	-	10M	10M
1.5	-	-	-	-	-	-	10M	10M	10M	10M	10M	10M	10M
2.0	-	-	-	10M	10M	10M	10M	10M	10M	15M	15M	15M	15M
2.5	-	10M	10M	10M	10M	10M	10M	15M	15M	15M	15M	2-10M	2-10M
3.0	10M	10M	10M	10M	10M	15M	15M	15M	15M	2-10M	2-10M	2-10M	2-10M
3.5	10M	10M	10M	15M	15M	15M	15M	2-10M	2-10M	2-10M	2-10M	2-15M	2-15M
4.0	10M	10M	15M	15M	15M	2-10M	2-10M	2-10M	2-10M	2-15M	2-15M	2-15M	2-15M
4.5	10M	15M	15M	15M	2-10M	2-10M	2-10M	2-10M	2-15M	2-15M	2-15M	2-15M	2-10M, 15M
5.0	15M	15M	15M	2-10M	2-10M	2-10M	2-10M	2-15M	2-15M	2-15M	2-15M	2-10M, 15M	2-10M, 15M
5.5	15M	15M	2-10M	2-10M	2-10M	2-10M	2-15M	2-15M	2-15M	2-15M	2-10M, 15M	2-10M, 15M	3-15M
6.0	15M	15M	2-10M	2-10M	2-10M	2-15M	2-15M	2-15M	2-15M	2-10M, 15M	2-10M, 15M	3-15M	3-15M
6.5	15M	2-10M	2-10M	2-10M	2-15M	2-15M	2-15M	2-15M	2-10M, 15M	2-10M, 15M	3-15M	3-15M	3-15M
7.0	2-10M	2-10M	2-10M	2-15M	2-15M	2-15M	2-15M	2-10M, 15M	2-10M, 15M	3-15M	3-15M	3-15M	-
7.5	2-10M	2-10M	2-10M	2-15M	2-15M	2-15M	2-10M, 15M	2-10M, 15M	3-15M	3-15M	3-15M	-	-
8.0	2-10M	2-10M	2-15M	2-15M	2-15M	2-10M, 15M	2-10M, 15M	3-15M	3-15M	3-15M	-	-	-
8.5	2-10M	2-15M	2-15M	2-15M	2-15M	2-10M, 15M	2-10M, 15M	3-15M	3-15M	-	-	-	-
9.0	2-10M	2-15M	2-15M	2-15M	2-10M, 15M	2-10M, 15M	3-15M	3-15M	3-15M	-	-	-	-
9.5	2-10M	2-15M	2-15M	2-15M	2-10M, 15M	2-10M, 15M	3-15M	3-15M	-	-	-	-	-
10.0	2-15M	2-15M	2-15M	2-10M, 15M	2-10M, 15M	3-15M	3-15M	-	-	-	-	-	-
10.5	2-15M	2-15M	2-15M	2-10M, 15M	2-10M, 15M	3-15M	3-15M	-	-	-	-	-	-
11.0	2-15M	2-15M	2-10M, 15M	2-10M, 15M	3-15M	3-15M	-	-	-	-	-	-	-
11.5	2-15M	2-15M	2-10M, 15M	2-10M, 15M	3-15M	3-15M	-	-	-	-	-	-	-
12.0	2-15M	2-15M	2-10M, 15M	3-15M	3-15M	-	-	-	-	-	-	-	-

NOTES:

- Ultimate strength design based on an unfactored wind pressure of 25 psf, 400 MPa (57 ksi) steel, 25 MPa (3600 psi) concrete @ 28 days and simply supported end conditions.
- When 2 bars are required, place in 2 cells. When 3 bars are required, place in 3 cells.
- Round off values for Tributary Width to the next highest value. Round off values for wall height to the nearest height.
- Place 10M bars horizontally every 4' (every 3rd course).

