



SUPERIOR DESIGN BY NATURE

WALL FORM SYSTEM

OBC LOAD TABLES
AND
STANDARD DETAILS
METRIC (SI)

Updated:

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WARRANTY

We guarantee our products to be free of defects and manufactured to meet published physical properties when cured and tested according to ASTM, CSA and Nexcem Standards.

Under this warranty, Nexcem will replace any Nexcem Wall Form proven to be defective when applied in accordance with written instructions and in applications recommended by Nexcem for this product.

All claims must be made within 1 (one) year of shipment. Absence of such claim in writing during this period will constitute a waiver of all claims with respect of such products.

This warranty is in lieu of any and all other warranties expressed and implied.

DISCLAIMER

Nexcem Inc. has no control over installation, workmanship, inspection, building conditions or applications. There is no responsibility, expressed or implied warranty, either as to merchantability or fitness for the particular purpose, made as to the performance or results of an installation using Nexcem Wall Forms.

Structures built with the Nexcem Wall Forms should be designed and constructed in accordance with applicable building codes. ***Nexcem material is not designed to carry any structural load other than temporary concrete pressures that occur during construction.*** The concrete core within the Wall Form is intended to be the primary load carrying material of the wall system.

GENERAL

This guide is intended to convey the standard methods of structural design using the Nexcem Inc. insulated concrete wall form system in conformance with the requirements of the CAN CSA A23.3 (latest version) Design of Concrete Structures. The tables and details in this document comply with Part 9 of the OBC 2025 Edition, within the limits and assumptions stated on the tables and details.

Design Theory

The design method complies with current NBC and OBC and CSA standards for design. No deviations from the basic design theory in these standards are required. All assumptions listed in the standard are applicable (e.g., assumptions about stress-strain relationships, acceptable material standards, etc.). Nexcem insulated wall formed concrete behaves as conventional reinforced concrete. This is proven by exhaustive full-scale testing and finite element modelling conducted over the past 80+ years.

This specification is not intended to limit the appropriate use of concrete or construction not specifically prescribed. This document is also not intended to restrict the use of sound judgment or exact engineering analysis of specific applications that may result in designs with improved performance and economy.

Structural Design

Below is the recommended structural design method for reinforced concrete walls using the Nexcem Inc. concrete wall form system, using the Load and Resistance Factor Design method described in the above referenced codes and standards

Load Factors:

Refer to the applicable building code for information on load combinations, including earthquake loading.

Strength Reduction Factors:

Refer to CSA A23.3 Section 8 for information on strength reduction factors. Below are the applicable factors typically used:

$\phi_s = 0.85$ for Tension-controlled sections

$\phi_c = 0.65$ for Compression controlled sections without spiral reinforcement

FOUNDATION WALL LOAD TABLES

Nexcem Inc. Table W-1a: Foundation Wall Design Table - 1 or 2 Story Residential

	Min. Concrete Thickness (mm / in)	Bar Size	Vertical reinforcing spacing with rebar in center of concrete wall thickness (mm, centre to centre 305mm = 12")																		
			Foundation Wall Unsupported Wall Height									Backfill Height									
			9			10			11			12			Backfill Height			Backfill Height			
			ft			m			ft			m			ft			m			
			2.74			3.05			3.35			3.66									
			6.0	7.0	8.0	8.5	7.0	8.0	9.0	9.5	8.0	9.0	10.0	10.5	9.0	10.0	10.5	9.0	10.0	11.0	11.5
			1.83	2.13	2.44	2.59	2.13	2.44	2.74	2.90	2.44	2.74	3.05	3.20	2.74	3.05	3.20	2.74	3.05	3.35	3.51
8" WF	125 / 4 7/8"	15M / #5 20M / #6	305	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
10" WF (R-14), 12" WF (R-22) 14" WF (R-28), 16" WF (R-36)	136 / 5.5"	15M / #5 20M / #6	305	305	305	305	305	305	305	305	305	305	305	305	305	305	305	305	305	305	305
10" WF (R-8), 12" WF (R-14)	174 / 6 7/8"	15M / #5 20M / #6	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
14" WF (R-22), 16" (R-28)	190 / 7.5"	15M / #5 20M / #6	305	305	305	305	305	305	305	305	305	305	305	305	305	305	305	305	305	305	305
12" WF (R-8), 14" WF (R-14) 16" (R-22)	228 / 9"	15M / #5 20M / #6	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
14" WF (R-8), 16" WF (R-14)	250 / 10.5"	15M / #5 20M / #6	305	305	305	305	305	305	305	305	305	305	305	305	305	305	305	305	305	305	305
16" WF (R-8)	316 / 12.5"	15M / #5 20M / #6	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

* Centre of vertical rebar positioned at 75mm / 3.0" from inside face (tension face) of concrete and not in the centre of the concrete wall thickness

n/a = not applicable / not allowed

Notes:

- 1 If an insulated block type is used that isn't listed above, for design purposes, use the block above with an equivalent minimum concrete thickness or smaller
- 2 The above design table assumes a concrete strength of 25 MPa / 3500psi at 28 days and a reinforcing steel yield strength of 400 Mpa / 58 ksi.
- 3 All concrete materials and testing to conform to CSA A23.1 and A23.2 and ACI 318 (latest revision). Reinforcing steel to be deformed bar conforming to CSA G30.18 (latest revision).
- 4 All walls to be reinforced horizontally: Soil density = 18.0 kN/m³ / 115 pcf, K₀ = 0.50
- 5 Vertical reinforcing is assumed to be in the centre of the concrete thickness, unless noted with an asterisk.
- 6 GFRP substitution permitted for Foundation Wall Unsupported Wall Height < 3.05m (10ft). If greater than 3.05m, GFRP bar permitted if designed by an engineer.
- 7 Soil parameters: Soil density = 18.0 kN/m³ / 115 pcf, K₀ = 0.50
- 8 This design table is valid for foundation walls of residential buildings that fall under Part 9 of the OBC
- 9 Footing design is in accordance with OBC Part 9

Nexcem Inc. Table W-1b: Foundation Wall Design Table - 1 or 2 Story Residential

	Min. Concrete Thickness (mm / in)	Bar Size	Foundation Wall Unsupported Wall Height															
			5				6				7				8			
			1.52				1.83				2.13				2.44			
	Backfill Height		Backfill Height		Backfill Height		Backfill Height		Backfill Height		Backfill Height		Backfill Height		Backfill Height			
ft	3.0	4.0	5.0	3.0	4.0	5.0	6.0	4.0	5.0	6.0	7.0	5.0	6.0	7.0	8.0	6.0	7.0	
m	0.91	1.22	1.52	0.91	1.22	1.52	1.83	1.22	1.52	1.83	2.13	1.52	1.83	2.13	2.44	1.83	2.13	
8" WF	125 / 4 7/8	15M / #5	915	915	915	915	915	915	915	915	915	915	915	915	915	915	915	915
10" WF (R-14), 12" WF (R-22) 14" WF (R-28), 16" WF (R-36)	136 / 5.5"	15M / #5	915	915	915	915	915	915	915	915	915	915	915	915	915	915	915	915
10" WF (R-8), 12" WF (R-14)	174 / 6 7/8	15M / #5	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr
14" WF (R-22), 16" (R-28)	190 / 7.5"	15M / #5	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr
12" WF (R-8), 14" WF (R-14) 16" (R-22)	228 / 9"	15M / #5	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr
14" WF (R-8), 16" WF (R-14)	250 / 10.5"	15M / #5	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr
16" WF (R-8)	316 / 12.5"	15M / #5	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr

nr = no reinforcement required

Notes:

- 1 If an insulated block type is used that isn't listed above, for design purposes, use the block above with an equivalent minimum concrete thickness or smaller
- 2 The above design table assumes Soil density = 18.0 kN/m³ / 115 pcf, K₀ = 0.50
- 3 All concrete materials and testing to conform to CSA A23.1 and A23.2 and ACI 318 (latest revision). Reinforcing steel to be deformed bar conforming to CSA G30.18 (latest revision).
- 4 All walls to be reinforced horizontally with minimum 10M (#3) @ 610mm (24") c/c.
- 5 Vertical reinforcing is assumed to be in the centre of the concrete thickness, unless noted with an asterisk
- 6 GFRP substitution permitted for Foundation Wall Unsupported Wall Height < 3.05m (10ft). If greater than 3.05m, GFRP bar permitted if designed by an engineer.
- 7 Soil parameters:
- 8 This design table is valid for foundation walls of residential buildings that fall under Part 9 of the OBC
- 9 Footing design is in accordance with OBC Part 9

ABOVE GRADE WALL LOAD TABLES

LINTEL TABLE

Nexcem Inc. Table W-3: Table For Lintel Design

LINTEL DETAIL	MINIMUM HEIGHT OF LINTEL (mm / in)	CONCRETE CORE THICKNESS (mm / in)	LONGITUDINAL REINFORCEMENT ⁶	STIRRUPS REQUIRED ⁶	NON-LOAD BEARING	MAXIMUM OPENING WIDTH (mm / in)								
						SUPPORTING ROOF	SUPPORTING ONE FLOOR	SUPPORTING ONE FLOOR AND ROOF	SUPPORTING TWO FLOORS	SUPPORTING ONE FLOOR AND ROOF	SUPPORTING TWO FLOORS	SUPPORTING TWO FLOORS AND ROOF		
NL-1	305 / 12	125 / 5	1 - 15M	NO	915 / 36	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
NL-1	610 / 24	125 / 5	1 - 15M	NO	1525 / 60	610 / 24	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
NL-1	915 / 36	125 / 5	1 - 15M	NO	3660 / 144	1220 / 48	610 / 24	610 / 24	610 / 24	610 / 24	610 / 24	610 / 24	610 / 24	n/a
NL-1	1220 / 48	125 / 5	1 - 15M	NO	4880 / 192	1830 / 72	1830 / 72	1830 / 72	1830 / 72	1830 / 72	1830 / 72	1830 / 72	1830 / 72	1830 / 72
NL-1	1525 / 60	125 / 5	1 - 15M	NO	6100 / 240	1830 / 72	1830 / 72	1830 / 72	1830 / 72	1830 / 72	1830 / 72	1830 / 72	1830 / 72	1830 / 72
NL-2	305 / 12	125 / 5	1 - 15M	NO	1220 / 48	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
NL-3	305 / 12	125 / 5	1 - 15M	NO	2440 / 96	1220 / 48	1220 / 48	1220 / 48	1220 / 48	1220 / 48	1220 / 48	1220 / 48	1220 / 48	1220 / 48
NL-4	305 / 12	125 / 5	1 - 15M	YES	2440 / 96	2135 / 84	2135 / 84	2135 / 84	2135 / 84	2135 / 84	2135 / 84	2135 / 84	2135 / 84	2135 / 84
NL-4	305 / 12	125 / 5	1 - 20M	YES	2440 / 96	2440 / 96	2440 / 96	2440 / 96	2440 / 96	2440 / 96	2440 / 96	2440 / 96	2440 / 96	2440 / 96
NL-5	305 / 12	175 / 7	2 - 15M	YES	2440 / 96	2745 / 108	2745 / 108	2745 / 108	2745 / 108	2745 / 108	2745 / 108	2745 / 108	2745 / 108	2745 / 108
NL-6	610 / 24	125 / 5	1 - 15M	NO	6100 / 240	1830 / 72	1830 / 72	1830 / 72	1830 / 72	1830 / 72	1830 / 72	1830 / 72	1830 / 72	1830 / 72
NL-7	610 / 24	125 / 5	1 - 15M	YES	6100 / 240	3310 / 132	3310 / 132	3310 / 132	3310 / 132	3310 / 132	3310 / 132	3310 / 132	3310 / 132	3310 / 132
NL-7	610 / 24	125 / 5	1 - 20M	YES	6100 / 240	3965 / 156	3965 / 156	3965 / 156	3965 / 156	3965 / 156	3965 / 156	3965 / 156	3965 / 156	3965 / 156
NL-8	610 / 24	175 / 7	2 - 15M	YES	6100 / 240	4575 / 180	4575 / 180	4575 / 180	4575 / 180	4575 / 180	4575 / 180	4575 / 180	4575 / 180	4575 / 180
NL-8	610 / 24	175 / 7	2 - 20M	YES	6100 / 240	5490 / 216	5490 / 216	5490 / 216	5490 / 216	5490 / 216	5490 / 216	5490 / 216	5490 / 216	5490 / 216

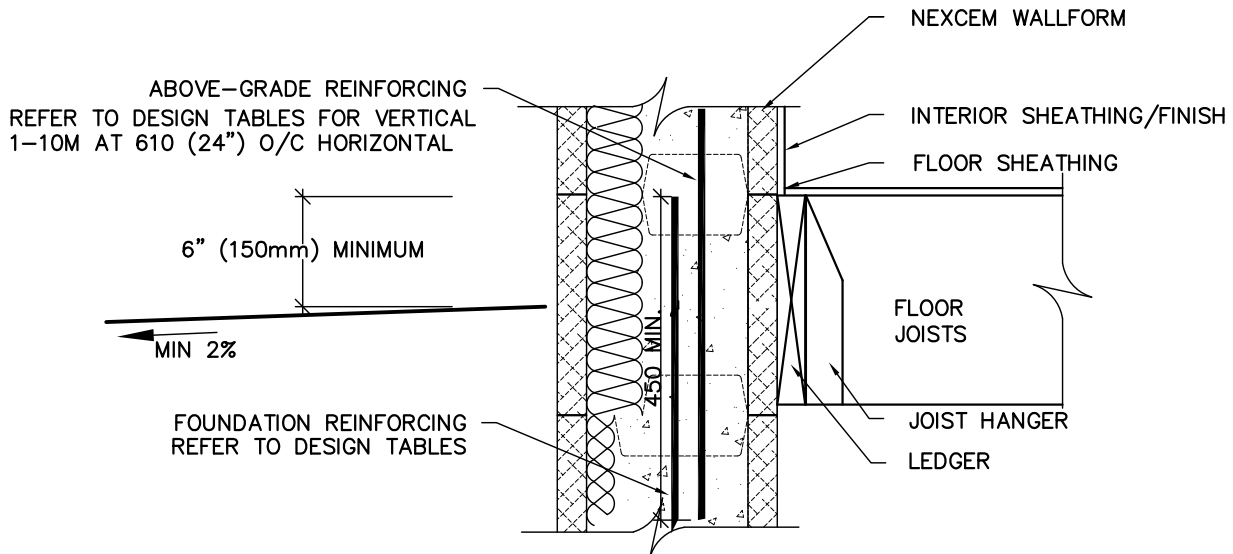
n/a = not allowed

Notes:

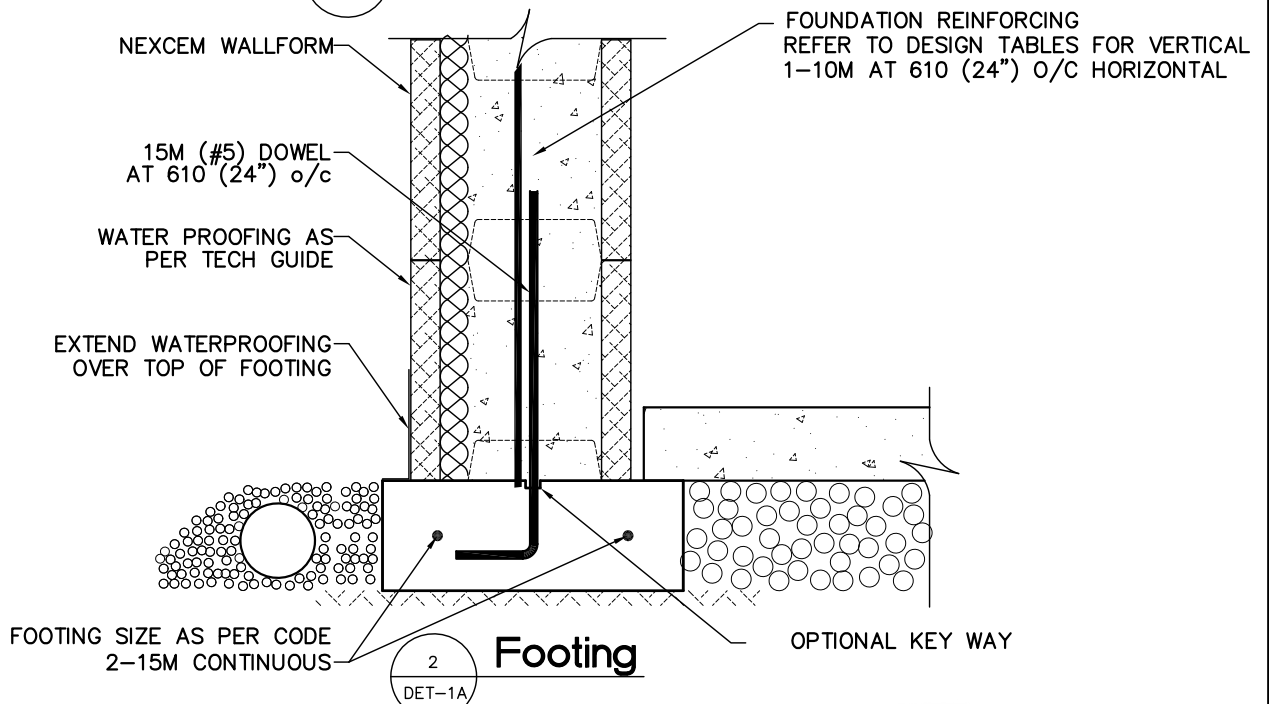
- 1 Larger opening widths may be permitted if reviewed and confirmed by a professional engineer
- 2 The above design table assumes a concrete strength of 25 MPa / 3500psi at 28 days and a reinforcing steel yield strength of 400 Mpa / 58 ksi.
- 3 All concrete materials and testing to conform to CSA A23.1 and A23.2 and ACI 318 (latest revision). Reinforcing steel to be deformed bar conforming to CSA G30.18 (latest revision).
- 4 All walls to be reinforced horizontally with minimum 10M (#3) @ 610mm (24") c/c.
- 5 Loading Assumptions used:
 Roof : Tributary area of 7.62m / 25ft (total roof truss span of 15.25m / 50ft), Specified Snow load = 3 kPa / 62.5 psf, Dead load = 1.1 kPa / 23 psf
 Second Floor Loading : Trib. Second Floor Loading : Tributary area of 3.81m / 12.5ft (total joist span of 7.62m / 25ft), Live Load = 2.4 kPa / 50 psf, Dead load = 1.5 kPa / 31 psf
 First Floor Loading : Tributary First Floor Loading : Tributary area of 3.81m / 12.5ft (total joist span of 7.62m / 25ft), Live Load = 2.4 kPa / 50 psf, Dead load = 1.5 kPa / 31 psf
- 6 Refer to detail drawing for reinforcement requirements
- 7 GFRP substitution not permitted unless designed by a professional engineer.

STANDARD DETAILS

THIS DRAWING IS COPYRIGHTED PROPERTY OF NEXCEM INC.
 REPRODUCTION OR ALTERATION WITHOUT PERMISSION IS
 NOT PERMITTED



1 Top of Foundation
 DET-1A



TITLE: Typical Foundation w/ Nexcem Above-Grade

PROJECT:



SCALE:
 NTS

JOB NO:
 n/a

DWG NO:

MIN 1 – 15M OVER OPENINGS
(SEE LINTEL DESIGN TABLES FOR
MORE INFORMATION).

PROVIDE THE SAME NUMBER
OF VERT. BARS AS THOSE
INTERUPTED BY OPENING ON
EA. SIDE OF OPENING WITHIN
24" OF OPENING, TYPICAL

FIN. FLOOR

SEE DESIGN TABLES AND REINFORCING
SCHEDULES FOR VERT. AND HORIZ.
REINFORCING IN WALL (BEYOND THAT
SHOWN FOR LINTEL DESIGN).

GENERAL NOTES FOR OPENINGS IN WALLS:

1. ENSURE MINIMUM 610mm (24") BETWEEN TWO WALL OPENINGS
2. ENSURE MINIMUM 610mm (24") REMAINS BETWEEN THE EDGE OF AN OPENING AND THE END OF A WALL
3. A PROFESSIONAL ENGINEER SHOULD BE CONSULTED WHERE ANY OF THE ABOVE RULES CANNOT BE FOLLOWED OR WHERE THE HEIGHT TO LENGTH RATIO OF A WALL EXCEEDS 1 (PER STOREY).

TYPICAL OPENING DETAIL

TITLE: **WALL OPENING DETAIL**

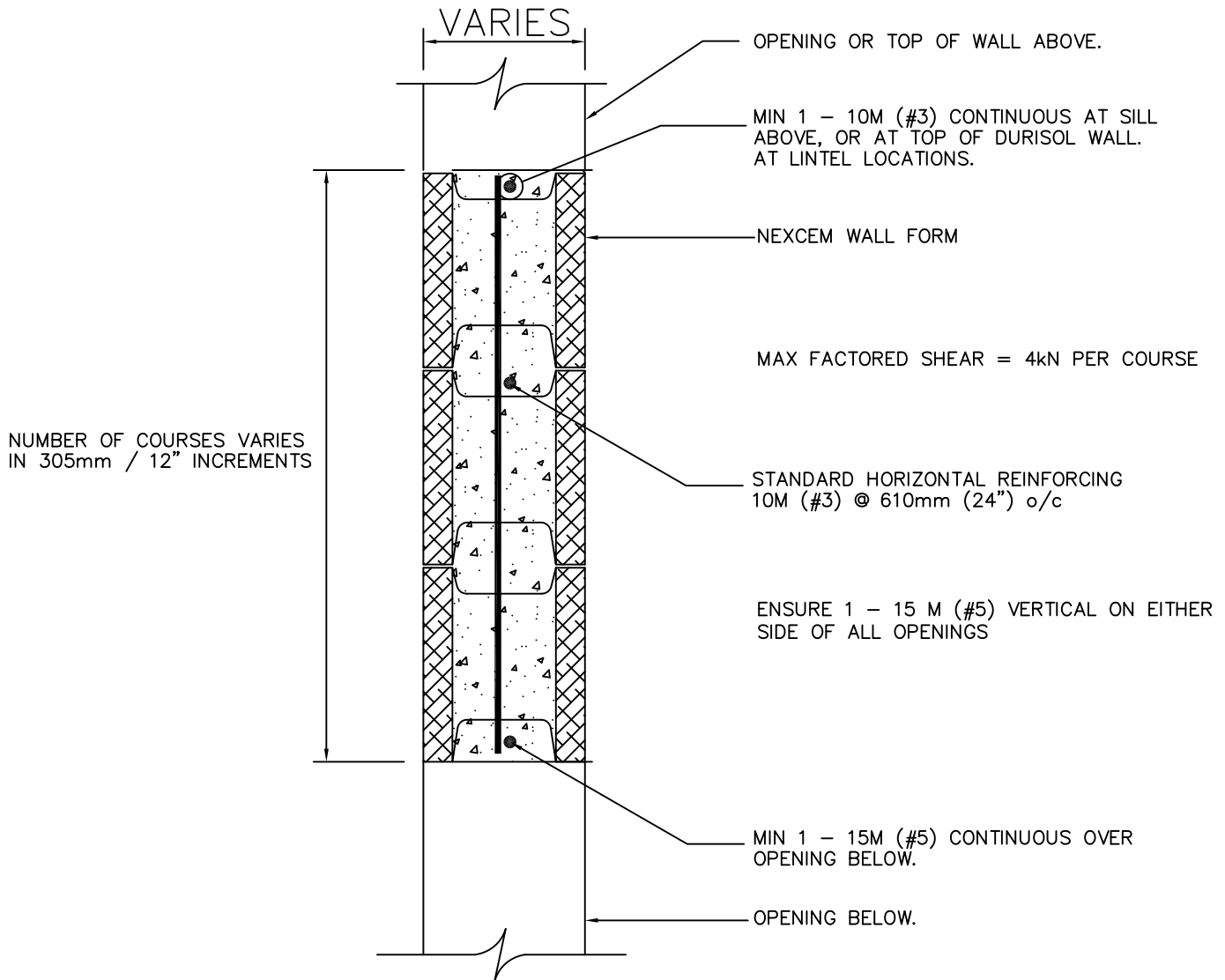
PROJECT:



SCALE:
NTS

JOB NO:
n/a

DWG NO:



APPLICABLE WALL SYSTEM: 8" R-8, 10" R-14, 12" R-22, 14" R-28, 16" R-36 OR ANY OTHER WALL FORM WITH MINIMUM 125mm (5") CORE WIDTH

TITLE: LINTEL NL-1

PROJECT:

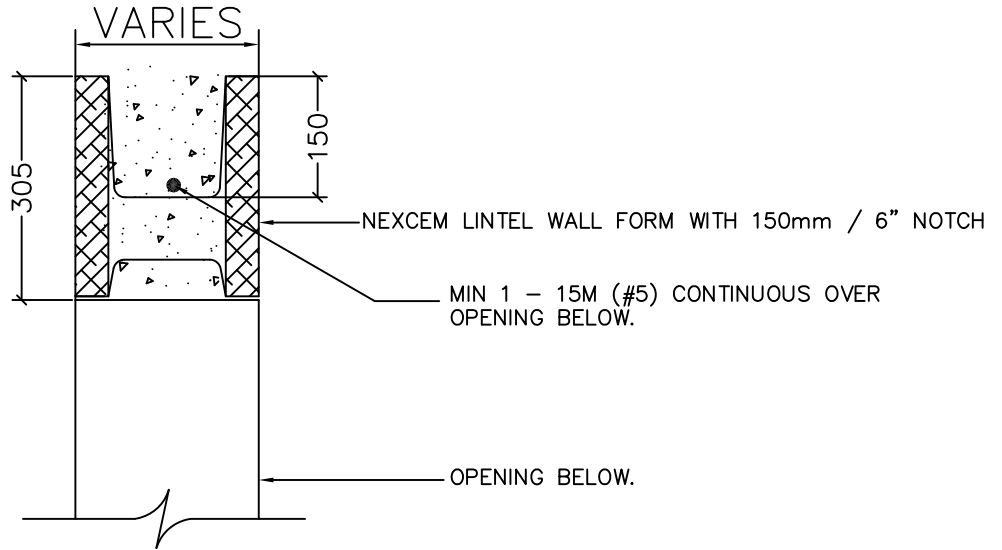


SCALE: NTS

JOB NO: n/a

DWG NO:

ENSURE 1 – 15 M (#5) VERTICAL ON EITHER SIDE OF ALL OPENINGS



APPLICABLE WALL SYSTEM: 8" R-8, 10" R-14, 12" R-22, 14" R-28, 16" R-36 OR ANY OTHER WALL FORM WITH MINIMUM 125mm (5") CORE WIDTH

TITLE: LINTEL NL-2

PROJECT:



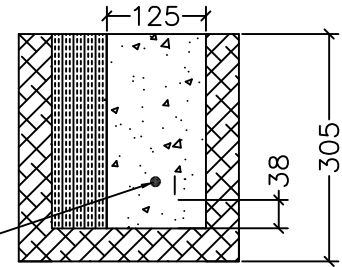
SCALE: NTS

JOB NO: n/a

DWG NO:

APPLICABLE WALL SYSTEMS: 8" R-8,
10" R-14, 12" R-22, 14" R-28, 16"
R-36 OR ANY OTHER WALLFORM WITH
MIN 125mm (5") CONCRETE CORE

BRACE BOTH SIDES OF LINTEL
TO PREVENT BLOWOUT AT TIME
OF CONCRETE POUR

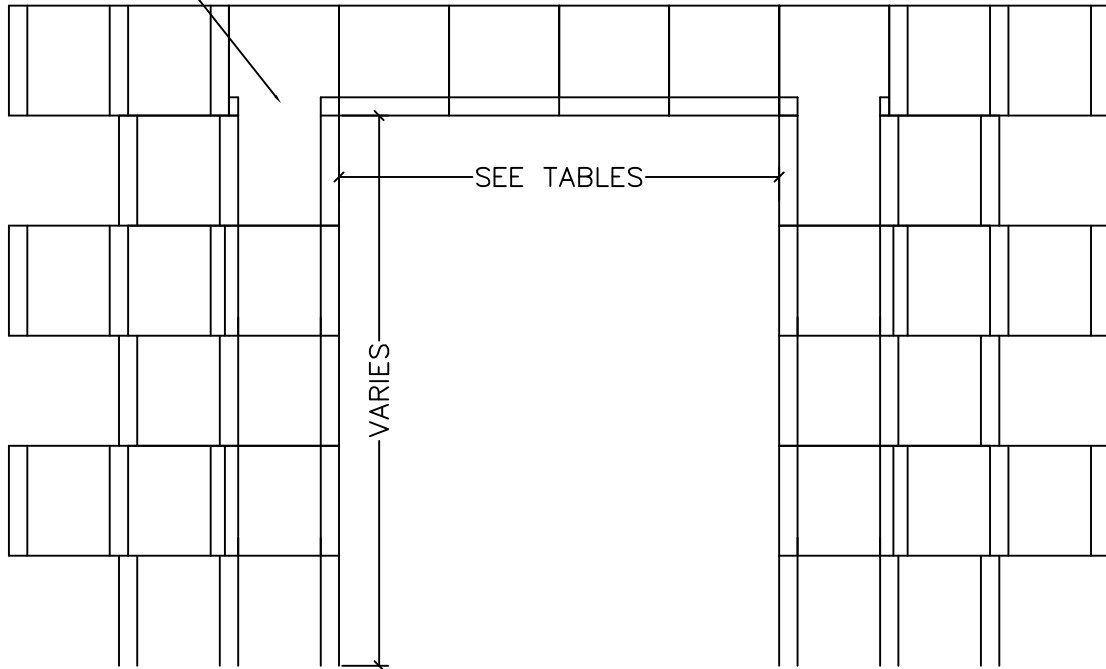


1 - 15M (#5) LONGITUDINAL REINFORCEMENT BOTTOM
OVER LINTEL LOCATIONS. REBAR TO EXTEND MIN
610mm (24") PAST EDGE OF OPENING.

MAINTAIN 38mm
(1.5") CONCRETE
COVER IN ALL
DIRECTIONS.

ENSURE BOTTOM
OF LINTEL
SUPPORT IS
CUTOUT TO ALLOW
FLOW OF CONCRETE

LINTEL WALLFORM
CUT ON-SITE. SEE
ABOVE SECTION.



TITLE: LINTEL NL-3

PROJECT:



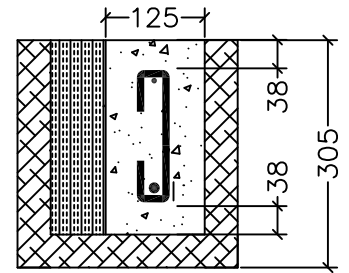
SCALE:
NTS

JOB NO:
n/a

DWG NO:

BRACE BOTH SIDES OF LINTEL
TO PREVENT BLOWOUT AT TIME
OF CONCRETE POUR

APPLICABLE WALL SYSTEMS: 8" R-8,
10" R-14, 12" R-22, 14" R-28, 16"
R-36 OR ANY OTHER WALLFORM WITH
MIN 125mm (5") CONCRETE CORE



ALTERNATE SIDE
OF STIRRUP LEG

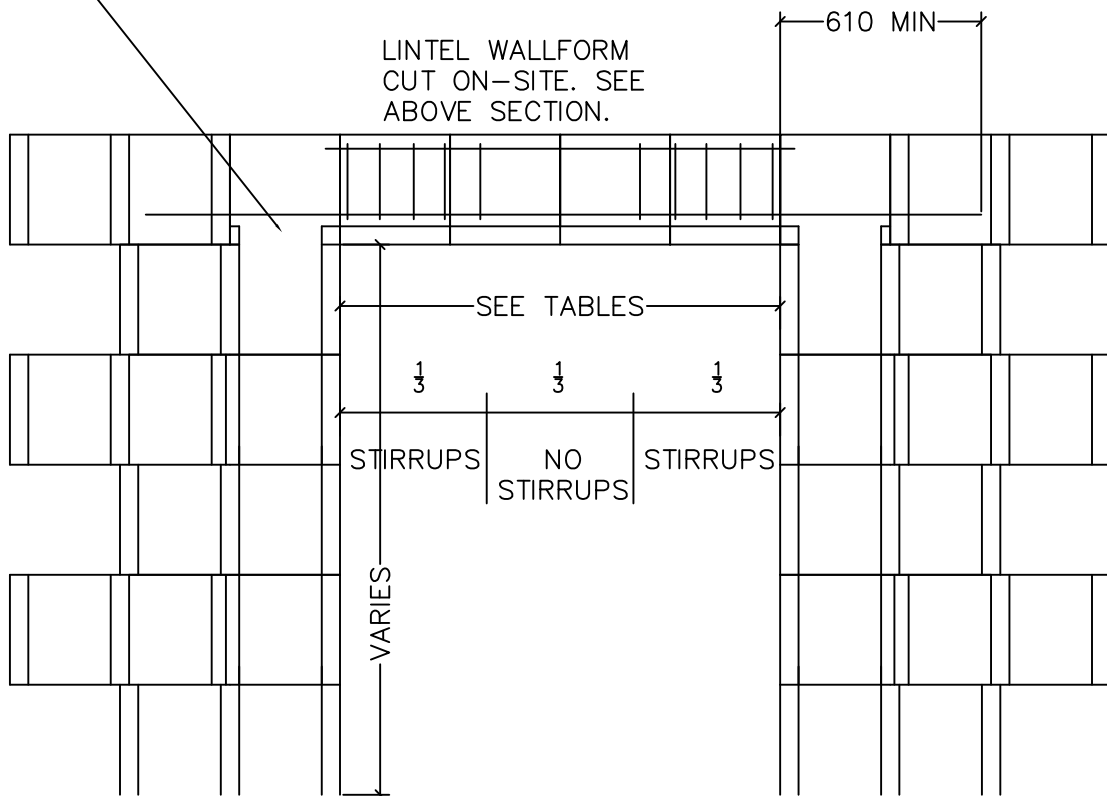
MAINTAIN 38mm (1.5")
CONCRETE COVER IN ALL
DIRECTIONS.

LONGITUDINAL REINFORCEMENT EITHER
1 - 15M (#5) OR 1 - 20M (#6) (REFER TO TABLES)
BOTTOM OVER LINTEL LOCATIONS. EXTEND REBAR MIN
610mm (24") PAST EDGE OF OPENING

ENSURE BOTTOM
OF LINTEL
SUPPORT IS
CUTOUT TO ALLOW
FLOW OF CONCRETE

1-10M (#3) LONGITUDINAL REINFORCEMENT
TOP TO SUPPORT STIRRUPS.

10M (#3) STIRRUPS AT 8" o/c.



TITLE: LINTEL NL-4

PROJECT:



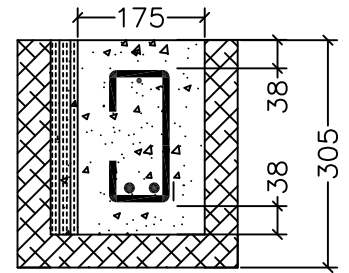
SCALE:
NTS

JOB NO:
n/a

DWG NO:

BRACE BOTH SIDES OF LINTEL
TO PREVENT BLOWOUT AT TIME
OF CONCRETE POUR

APPLICABLE WALL SYSTEMS: 10" R-8,
12" R-14, 14" R-22, 16" R-28 OR
ANY OTHER WALLFORM WITH MIN
175mm (7") CONCRETE CORE



ALTERNATE SIDE
OF STIRRUP LEG

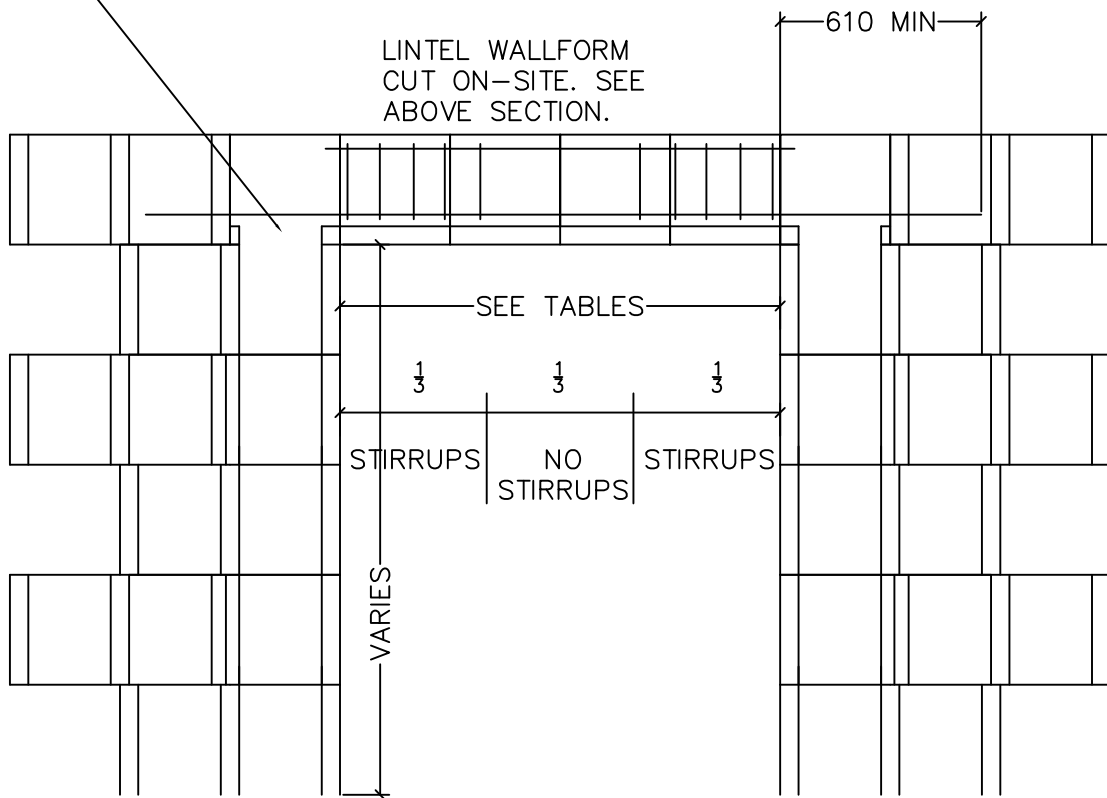
MAINTAIN 38mm (1.5")
CONCRETE COVER IN ALL
DIRECTIONS.

LONGITUDINAL REINFORCEMENT
2 - 15M (#5) (REFER TO TABLES)
BOTTOM OVER LINTEL LOCATIONS. EXTEND REBAR MIN
610mm (24") PAST EDGE OF OPENING

ENSURE BOTTOM
OF LINTEL
SUPPORT IS
CUTOUT TO ALLOW
FLOW OF CONCRETE

1-10M (#3) LONGITUDINAL REINFORCEMENT
TOP TO SUPPORT STIRRUPS.

10M (#3) STIRRUPS AT 8" o/c.



LINTEL WALLFORM
CUT ON-SITE. SEE
ABOVE SECTION.

TITLE: LINTEL NL-5

PROJECT:



SCALE:
NTS

JOB NO:
n/a

DWG NO:

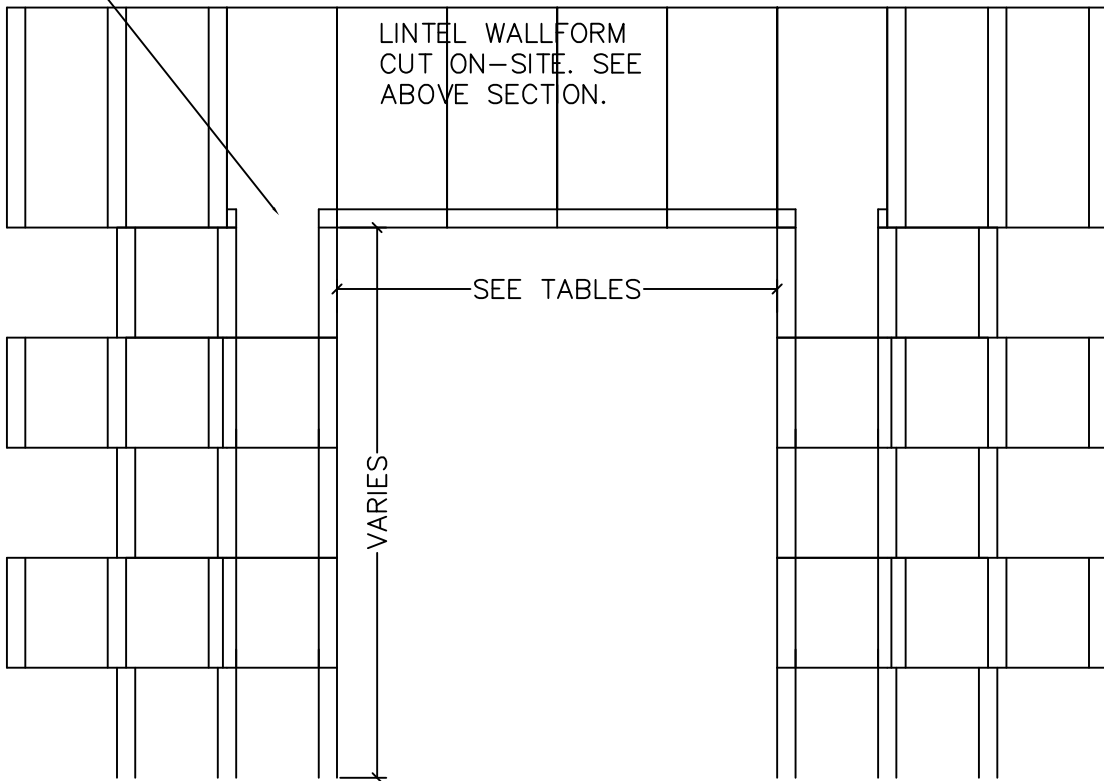
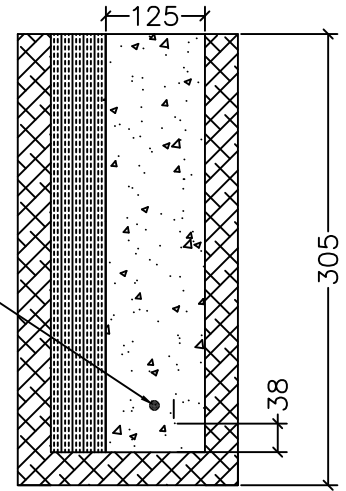
APPLICABLE WALL SYSTEMS: 8" R-8,
10" R-14, 12" R-22, 14" R-28, 16"
R-36 OR ANY OTHER WALLFORM WITH
MIN 125mm (5") CONCRETE CORE

1 - 15M (#5) LONGITUDINAL REINFORCEMENT BOTTOM
OVER LINTEL LOCATIONS. REBAR TO EXTEND MIN
610mm (24") PAST EDGE OF OPENING.

ENSURE BOTTOM
OF LINTEL
SUPPORT IS
CUTOUT TO ALLOW
FLOW OF CONCRETE

MAINTAIN 38mm
(1.5") CONCRETE
COVER IN ALL
DIRECTIONS.

BRACE BOTH SIDES OF LINTEL
TO PREVENT BLOWOUT AT TIME
OF CONCRETE POUR



TITLE: LINTEL NL-6

PROJECT:



SCALE:
NTS

JOB NO:
n/a

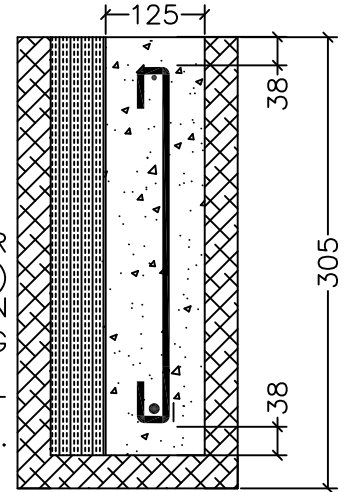
DWG NO:

APPLICABLE WALL SYSTEMS: 8" R-8,
 10" R-14, 12" R-22, 14" R-28, 16"
 R-36 OR ANY OTHER WALLFORM WITH
 MIN 125mm (5") CONCRETE CORE

MAINTAIN 38mm (1.5")
 CONCRETE COVER IN ALL
 DIRECTIONS.

BRACE BOTH SIDES OF LINTEL
 TO PREVENT BLOWOUT AT TIME
 OF CONCRETE POUR

ALTERNATE SIDE
 OF STIRRUP LEG



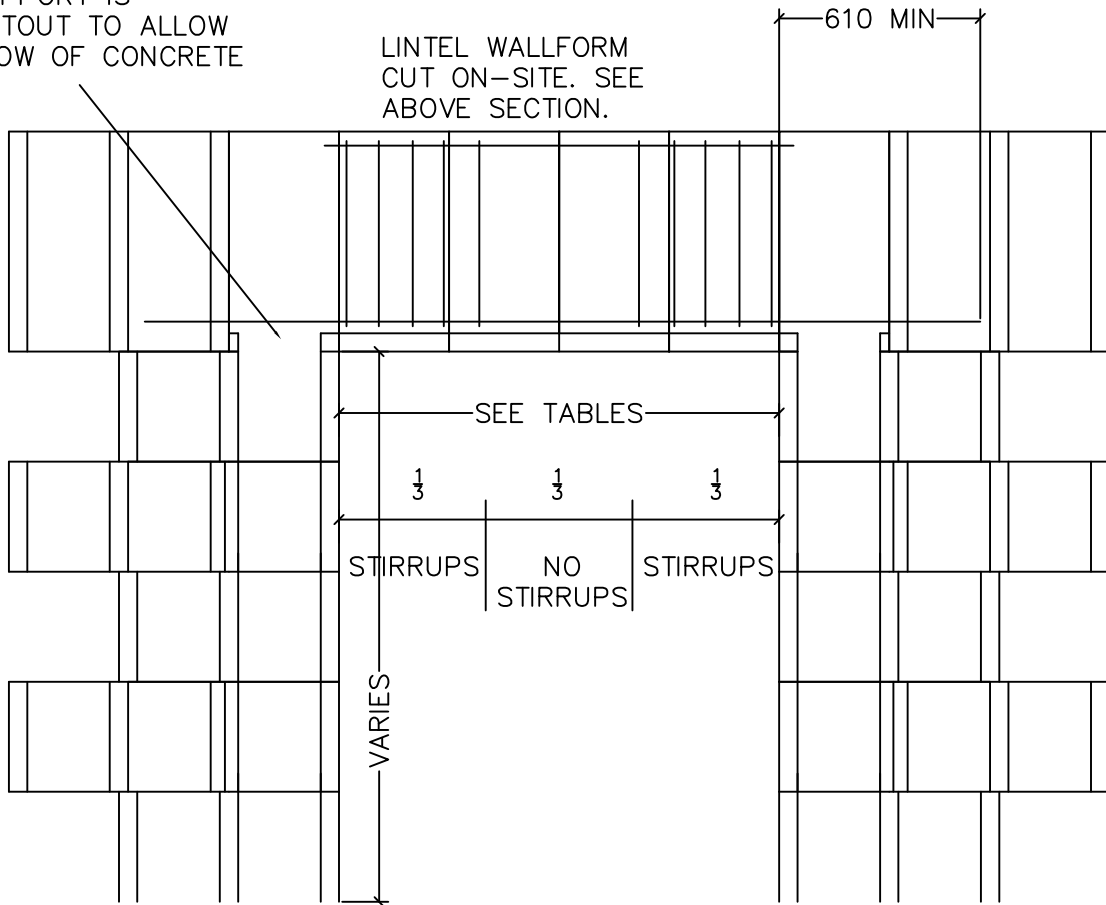
LONGITUDINAL REINFORCEMENT EITHER
 1 - 15M (#5) OR 1 - 20M (#6) (REFER TO TABLES)
 BOTTOM OVER LINTEL LOCATIONS. EXTEND REBAR MIN
 610mm (24") PAST EDGE OF OPENING

1-10M (#3) LONGITUDINAL REINFORCEMENT
 TOP TO SUPPORT STIRRUPS.

10M (#3) STIRRUPS AT 8" o/c.

ENSURE BOTTOM
 OF LINTEL
 SUPPORT IS
 CUTOUT TO ALLOW
 FLOW OF CONCRETE

LINTEL WALLFORM
 CUT ON-SITE. SEE
 ABOVE SECTION.



TITLE: LINTEL NL-7

PROJECT:

SCALE:
 NTS

JOB NO:
 n/a

DWG NO:



APPLICABLE WALL SYSTEMS: 10" R-8,
12" R-14, 14" R-22, 16" R-28 OR
ANY OTHER WALLFORM WITH MIN
175mm (7") CONCRETE CORE

BRACE BOTH SIDES OF LINTEL
TO PREVENT BLOWOUT AT TIME
OF CONCRETE POUR

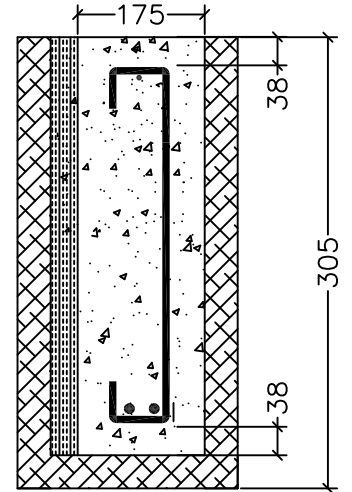
MAINTAIN 38mm (1.5")
CONCRETE COVER IN ALL
DIRECTIONS.

ALTERNATE SIDE
OF STIRRUP LEG

LONGITUDINAL REINFORCEMENT EITHER
2 - 15M (#5) OR 2 - 20M (REFER TO TABLES)
BOTTOM OVER LINTEL LOCATIONS. EXTEND REBAR MIN
610mm (24") PAST EDGE OF OPENING

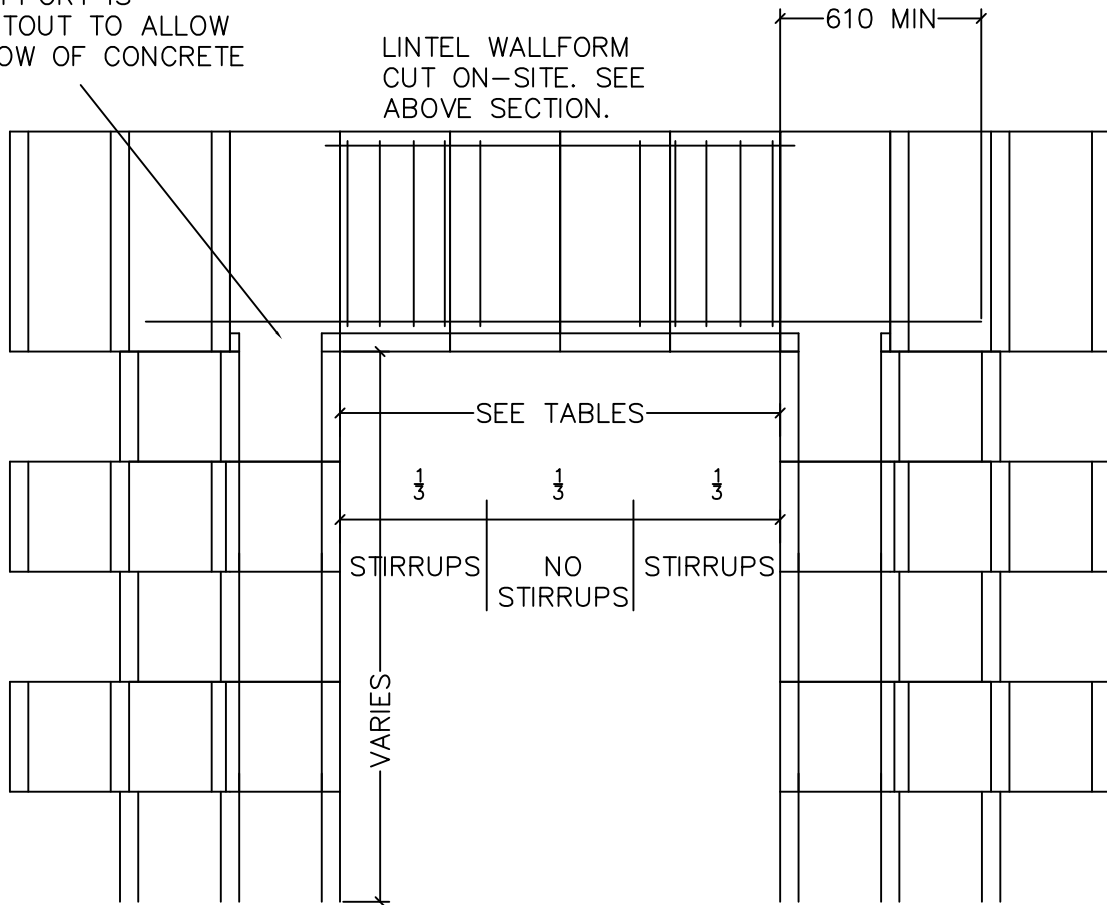
1-10M (#3) LONGITUDINAL REINFORCEMENT
TOP TO SUPPORT STIRRUPS.

10M (#3) STIRRUPS AT 8" o/c.



ENSURE BOTTOM
OF LINTEL
SUPPORT IS
CUTOUT TO ALLOW
FLOW OF CONCRETE

LINTEL WALLFORM
CUT ON-SITE. SEE
ABOVE SECTION.



TITLE: LINTEL NL-8

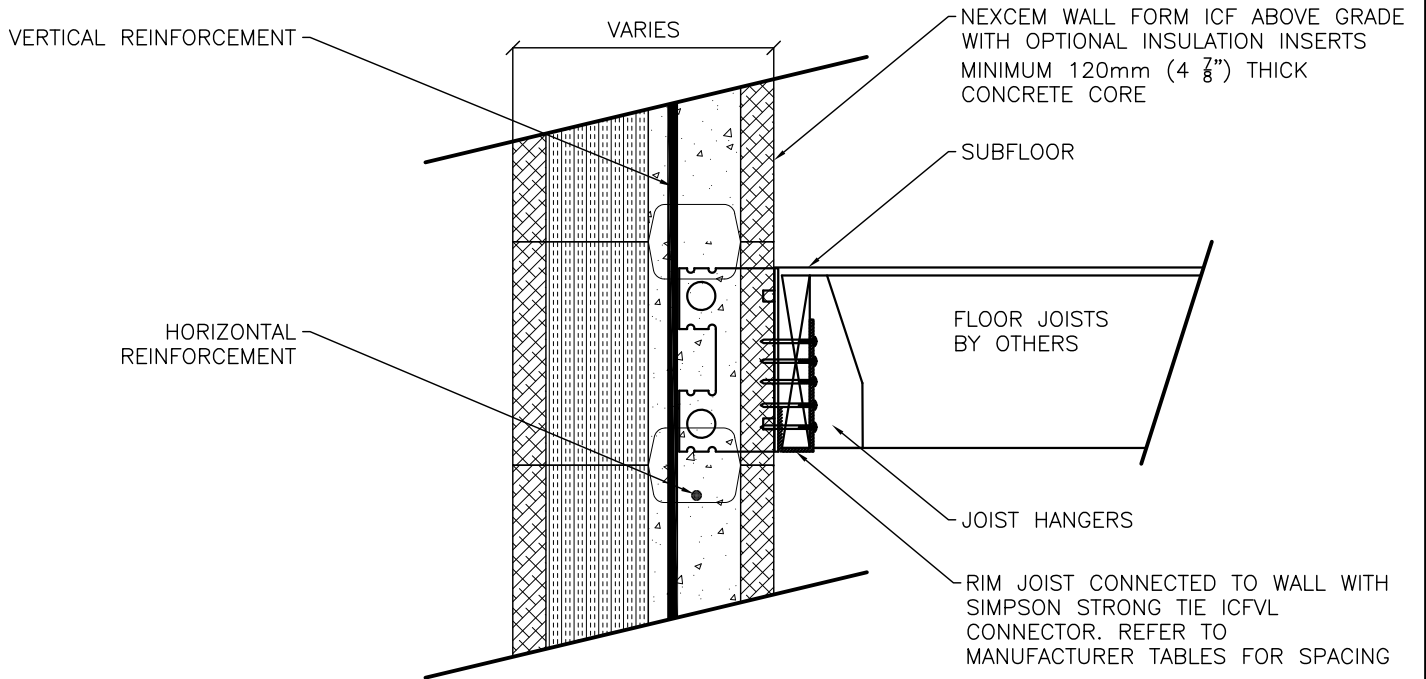
PROJECT:



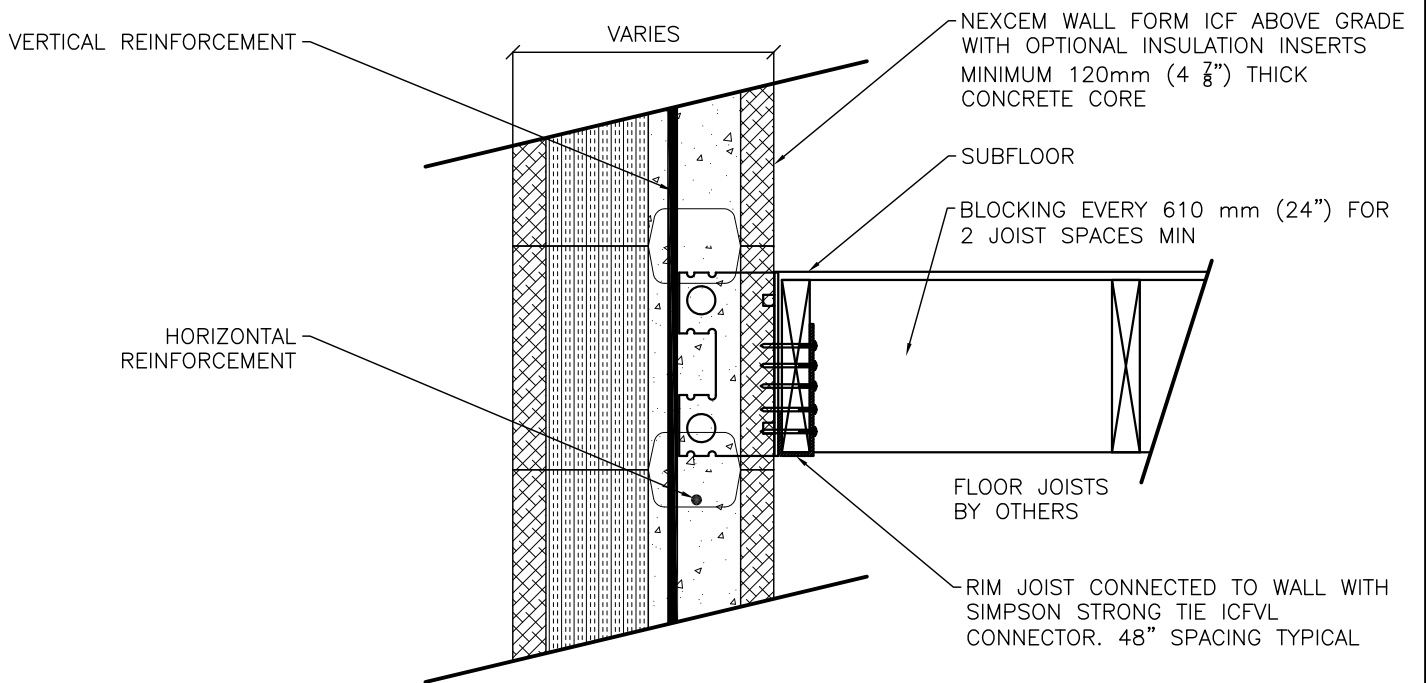
SCALE:
NTS

JOB NO:
n/a

DWG NO:



TYPICAL SECTION – JOISTS PERPENDICULAR



TYPICAL SECTION – JOISTS PARALLEL

TITLE: FLOOR CONNECTION

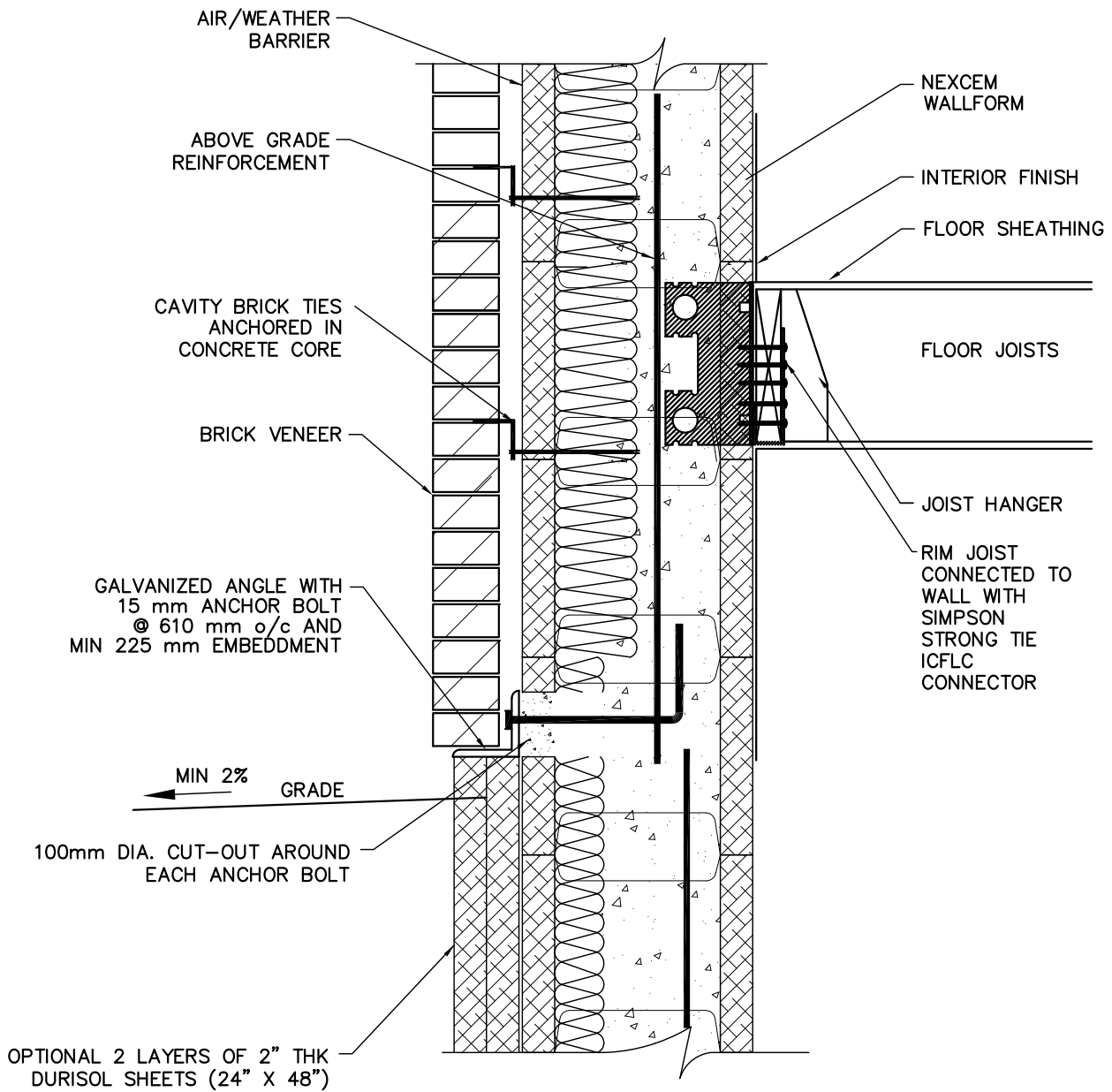
PROJECT:



SCALE:
NTS

JOB NO:
n/a

DWG NO:



TYPICAL SECTION

TITLE:

PROJECT:



SCALE: NTS
JOB NO: n/a
DWG NO:



TYPICAL SECTION

TITLE:

PROJECT:



SCALE:
NTS

JOB NO:
n/a

DWG NO:

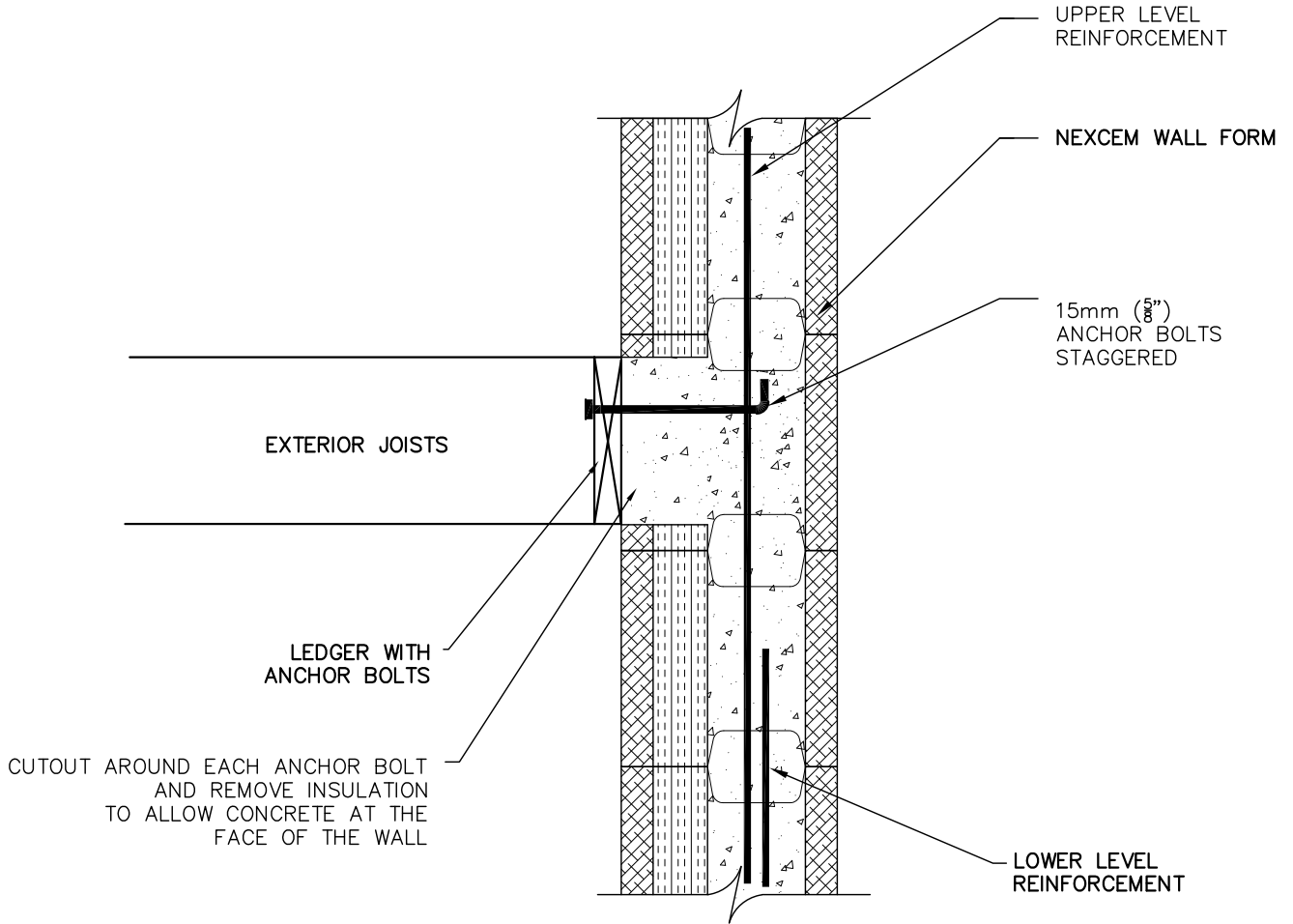
MAX FACTORED SHEAR CAPACITY OF CONCRETE CUT OUT

6" X 6" CUTOUT - $V_c = 9.5 \text{ kN (2100 LBS)}$

JOIST SPAN (mm)	ANCHOR BOLT SPACING (mm)
1220mm (48")	915mm (36")
1830mm (72")	610mm (24")
3660mm (144")	305mm (12")

8" X 8" CUTOUT - $V_c = 16.8 \text{ kN (3750 LBS)}$

JOIST SPAN (mm)	ANCHOR BOLT SPACING (mm)
1830mm (72")	915mm (36")
3050mm (120")	610mm (24")
4880mm (192")	305mm (12")



TYPICAL SECTION

TITLE: **EXTERIOR LEDGER**

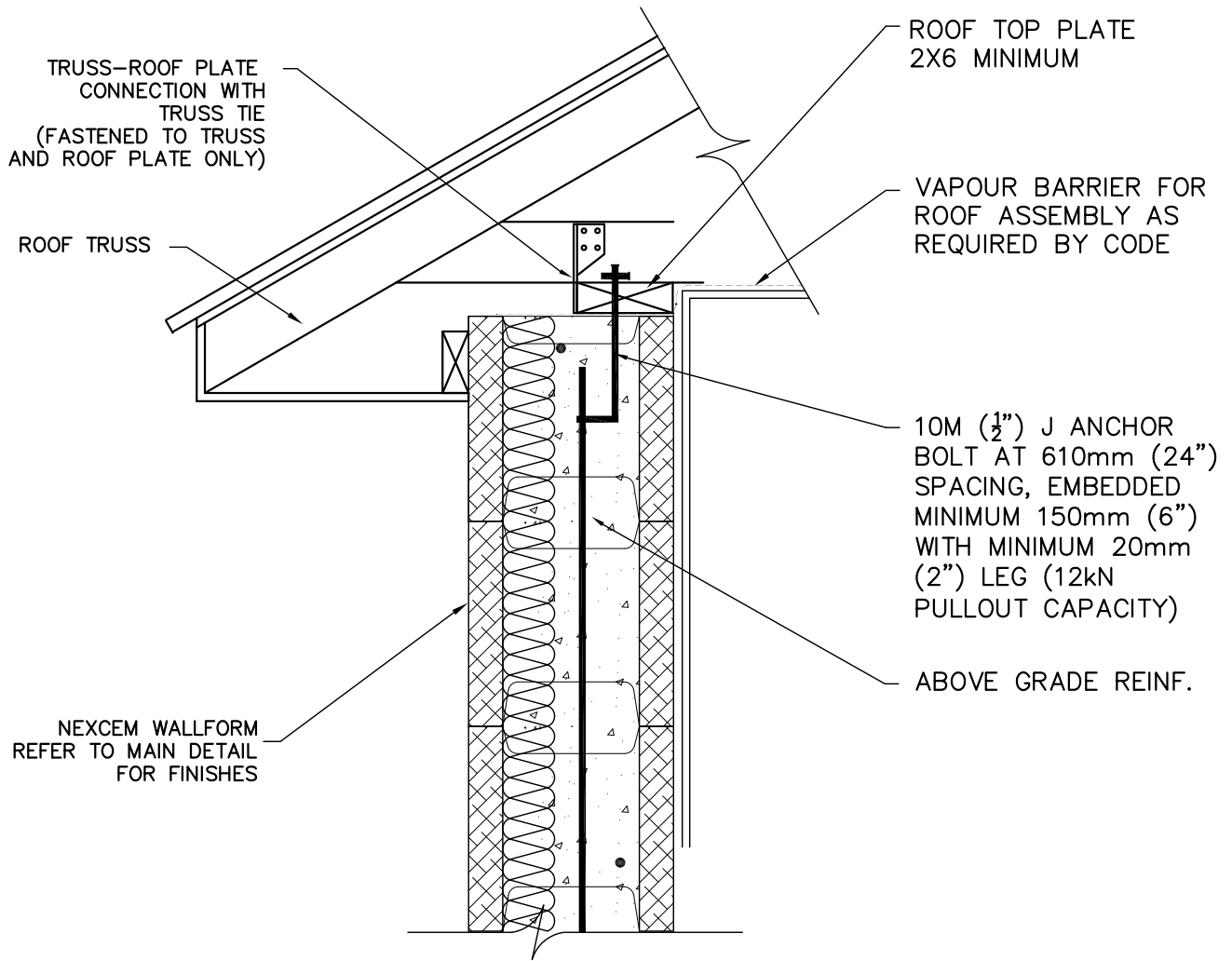
PROJECT:



SCALE:
NTS

JOB NO:
n/a

DWG NO:



TYPICAL SECTION

TITLE: **ROOF CONNECTION**

PROJECT:



SCALE:
NTS

JOB NO:
n/a

DWG NO: