

CONCRETE FOUNDATION SHALL BE:

3000 PSI COMPRESSIVE STRENGTH AT 28 DAYS

WATER TO CEMENT RATIO SHALL BE 0.50 OR LESS

CEMENT TYPE SHALL BE TYPE I OR TYPE II MODIFIED.

(ONLY TYPE II MODIFIED WHEN 4000 PSI SPECIFIED)

SUMP OF 4" PLUS/MINUS 1"

AIR CONTENT OF 6% PLUS/MINUS 1%

REFER TO ACI 318 FOR ADDITIONAL INFORMATION:

DO NOT PLACE BACKFILL AGAINST FOUNDATION UNTIL CONCRETE HAS CURED AND FOUNDATION ADEQUATELY SLOPED. BACKFILL TO REQUIRED GRADE ELEVATION AND SLOPE AWAY FROM BUILDING.

ALL CONCRETE SLABS SHALL BE 4" THICK WITH 6X6-11 4X11-4 W.U.F. UNLESS OTHERWISE NOTED WITH A MINIMUM LAP OF 12". PROVIDE SCORES OR SAWCUTS IN ALL SLABS @ 12'-0" C. MAX. OR AS NOTED ON PLANS.

WALLS SHALL BE 12" THICK WITH 6X6-11 4X11-4 CEMENT LINES AND RE-ENTRANC CORNERS. FOUNDATIONS, FOOTINGS AND WALLS ARE DESIGNED BASED ON THE FOLLOWING:

SOILS REPORT NUMBER 160710-2

BY Rocky Mountain Group.

DATED March 7, 2019.

MAXIMUM BEARING CAPACITY OF 2000 PSF AND A MIN. OF 600 PSF.

CONTRACTOR SHALL NOTIFY ENGINEER OF ANY UNANTICIPATED SOILS CONDITIONS.

CONCRETE PROTECTION FOR REINFORCEMENT (U.N.O.)

CONCRETE POURED AGAINST EARTH

CONCRETE POURED IN FORMS BUT EXPOSED TO EARTH AND WEATHER:

#5 BARS OR SMALLER	1 1/2"
BARS LARGER THAN #5	2"
SLABS	3"

DESIGN LOADS AS PER SECTION R301, I.R.C. WITH LOCAL AMENDMENTS:

- A. ROOF (SNOW) 30 PSF LIVE
- B. ROOF 25 PSF DEAD
- C. TOP CHORD = 15 PSF & BOTTOM CHORD = 10 PSF
- D. FLOORS AND INTERIOR STAIRS 40 PSF LL, 15 PSF DL
- D. EXTERIOR DECKS 40 PSF LL, 10 PSF DL
- E. WIND 100 MPH EXPOSURE C (3 SEC. GUST)
- F. SEISMIC CATEGORY B
- G. WEATHERING: SEVERE
- H. FROST DEPTH: 30 INCHES
- I. TERMITE INFESTATION: SLIGHT TO MODERATE
- J. DECAY: NONE TO SLIGHT

DESIGN CODES:
A. IRC 2009
B. ASCE 7
C. AISC STEEL CONSTRUCTION MANUAL

FOUNDATION WALL HEIGHT NOTE:
IT IS ACCEPTABLE FOR THE CRAWLSPACE, GARAGE AND PATIO FOUNDATIONS TO BE EXTENDED AT LEAST 1'-0" OR AT MOST TO BASEMENT DEPTH DUE TO POOR SOIL CONDITIONS OR EASE OF CONSTRUCTION.

THE GARAGE AND PATIO WALLS ARE ALLOWED TO EXTEND TO BASEMENT DEPTH WITH NO MODIFICATIONS OTHER THAN REINFORCEMENT OF THE TALLER WALLS PER THE SCHEDULE ON THE FOUNDATION PLANS. THE FOUNDATION WALL REINFORCEMENT SCHEDULE NOTES THAT WALLS WITH BACKFILL ON EACH SIDE THE REINFORCEMENT SHALL BE PER THE WALLS UP TO 4FT IN HEIGHT. THE FOOTINGS SHALL BE CONTINUOUS WITH A WIDTH OF 1'-4".

SPREAD FOOTING STEEL AND THICKNESS SCHEDULE			
FOOTING WIDTH	# OF #4 REBAR LONGITUDINAL	#4 REBAR LATERAL	THICKNESS OF FOOTING
16"	NONE	NONE	8"
18"	NONE	NONE	8"
20"	NONE	NONE	8"
24"	2	NONE	10"
26"	3	@ 18"o.c.	10"
28"	3	@ 18"o.c.	10"
30"	4	@ 18"o.c.	12"
32"	4	@ 12"o.c.	12"
34"	4	@ 12"o.c.	12"
36"	4	@ 12"o.c.	12"

FOUNDATION WALL REINFORCING SCHEDULE		
WALL HEIGHT	VERTICAL REINFORCEMENT	HORIZONTAL REINFORCEMENT
0'-0" TO 3'-0"	#4 S @ 48" O.C.	(2) #5 TOP AND BOTTOM
UP TO 4'-0"	#4 S @ 24" O.C.	(2) #5 TOP AND BOTTOM
UP TO 7'-0"	#4 S @ 24" O.C.	(2) #5 TOP AND BOTTOM
UP TO 9'-0"	#4 S @ 16" O.C.	(2) #5 TOP AND BOTTOM AND (1) #5 @ 24" O.C.
UP TO 10'-0"	#5 S @ 16" O.C.	(2) #5 TOP AND BOTTOM AND (1) #5 @ 16" O.C.

WALLS WITH BACKFILL ON EACH SIDE, SUCH AS DEEP GARAGE WALLS, ONLY REQUIRE REINFORCEMENT AS PER THE SCHEDULE ABOVE FOR WALLS UP TO 4'-0" IN HEIGHT.

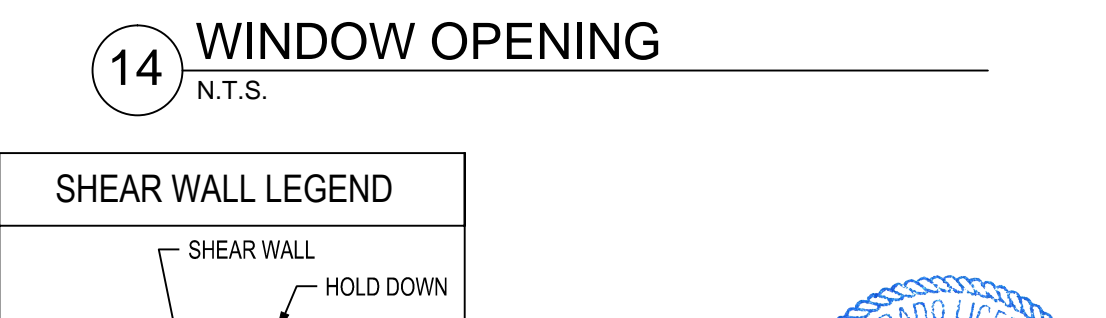
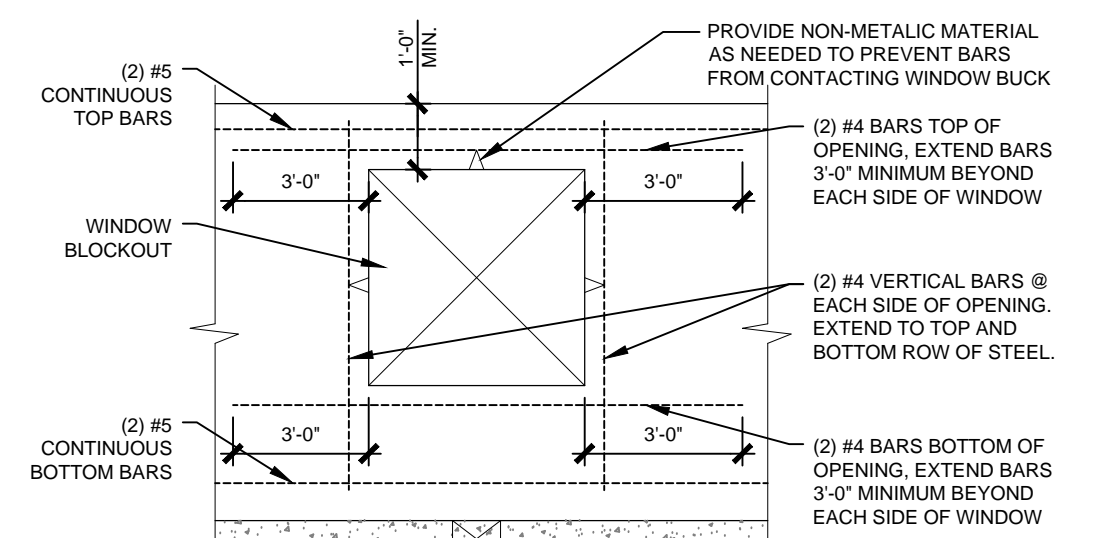


Diagram illustrating the wall assembly details. The assembly includes HDX (Horizontal Duct) and WSP (Wall Stud Panel) components. The label indicates: DBL. STUD TYP. @ HOLD DOWN STUD WALL.

Stamp: COLLEGE OF FOSTER & MANHATTAN, 46527, 4/15/2018.

HOLD-DOWN SCHEDULE		
"HD"	HOLD DOWN	ANCHOR BOLT EMBED. DEPTH ¹
HD1	SIMPSON CS16 x 40" w/ 10d or USP RS150	N.A.
HD2	SIMPSON STDH10RJ or HDU4 or USP STAD10RJ USP PHD4A	7 1/2"
HD3	SIMPSON STDH14RJ or HDU8 or USP STAD14RJ USP PHD8	10 1/2"

1. EMBEDMENT LENGTHS ARE BASED ON HILTI HIT-RE 500 V3 ADHESIVE w/ HILTI HAS/HIT-V THREADED ROD OR EQUIVALENT

