

PATENTS:

U.S.: #8,371,082
CANADA: #2,621,024

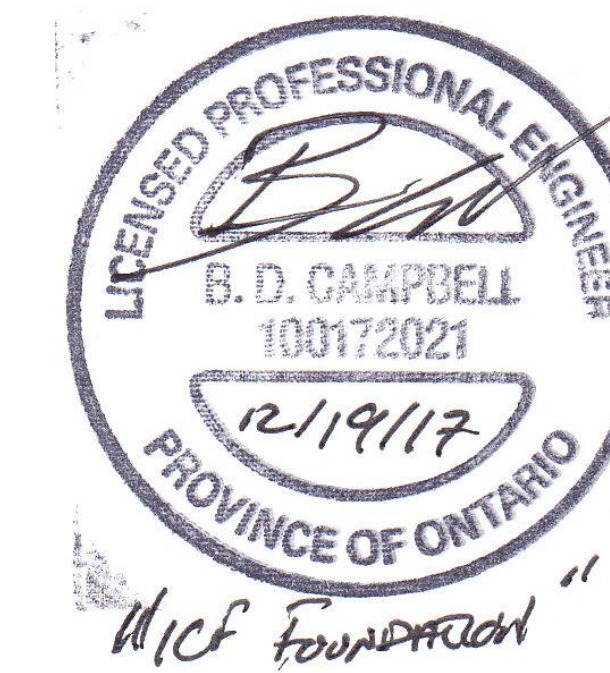
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SHOP DRAWINGS FOR:

Project Example 4

ST. CATHARINES, ON

Sheet List	
Sheet Number	Sheet Name
1	COVER SHEET
2	LAYOUT PLAN
3	LAYOUT PLAN
4	WALL SECTIONS
5	WALL SECTIONS
6	DETAILS



ABBREVIATIONS

BM.	=	BEAM
BTM.	=	BOTTOM
CONT.	=	CONTINUOUS
CTR.	=	CENTER
DWL.	=	DOWEL
EA.	=	EACH
ELEV.	=	ELEVATION
E.O.	=	EVERY OTHER
E.S.	=	EXPOSED STUD
FLR.	=	FLOOR
FTG.	=	FOOTING
G-V	=	GABLE - VARIES
HORIZ.	=	HORIZONTAL
MIN.	=	MINIMUM
O.C.	=	ON CENTER
PL.	=	PLATE
PSF	=	LBS PER SQUARE FOOT
REINF.	=	REINFORCING
R.O.	=	ROUGH OPENING
S.R.	=	STUCCO READY
T.O.W.	=	TOP OF WALL
TYP.	=	TYPICAL
VERT.	=	VERTICAL
VICF	=	VERTICAL INSULATED CONCRETE FORM
W/	=	WITH
W.H.	=	WALL HEIGHT

LINTEL SCHEDULE						
MARK	LINTEL BAR	SHEAR REINFORCING	HEAD R.O.	LINTIL DEPTH	WIDTH R.O.	
L1	1- 15M CONT. T&B	10M STIRRUP @ 16" O.C. / 8" O.C. @ ENDS	VERIFY	16" MIN.	SEE ARCH.	
L2	2- 15M CONT. T&B	10M STIRRUP @ 16" O.C. / 8" O.C. @ ENDS	VERIFY	16" MIN.	SEE ARCH.	
L3	2- 15M CONT. T&B	10M STIRRUP @ 16" O.C. / 8" O.C. @ ENDS	VERIFY	12" MIN.	SEE ARCH.	

FROST WALL REINFORCING SCHEDULE

WALL HT.	VERT. REINF. BAR	SPACING	POSITION
4'-8"	15M	16" O.C.	CENTER

BASEMENT WALL REINFORCING SCHEDULE

WALL HT.	VERT. REINF. BAR	SPACING	POSITION
4'-0"	15M	16" O.C.	CENTER
5'-0"	15M	16" O.C.	CENTER
10'-8 1/4"	15M	16" O.C.	OFFSET

MAIN FLOOR WALL REINFORCING SCHEDULE

WALL HT.	VERT. REINF. BAR	SPACING	POSITION
3'-4"	15M	16" O.C.	CENTER
10'-0"	15M	16" O.C.	CENTER

DOWEL REINFORCING SCHEDULE

	VERT. REINF. BAR	SPACING	EMBED	PROJECTION	POSITION
@ FOOTING	15M	16" O.C.	6"	6"	CENTER
@ TOP OF WALL	15M	32" O.C.	6"	6"	CENTER

- DOWEL NOTES:
1. ALL DOWELS TO START 12" IN FROM OUTSIDE OF FORM CORNER
2. DOWELS NOT TO EXCEED SPECIFIED SPACING PER SCHEDULE
3. DOWEL SPACINGS NOT REQUIRED TO ALIGN WITH VERT. BARS

GENERAL NOTES / DESIGN DATA

DESIGN PARAMETERS:

1. BUILDING CODE REFERENCE
ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE 2012 ONTARIO BUILDING CODE, UNO

2. LOADS

ROOF:	DL = 16 PSF SL = 21 PSF
FLOOR:	DL = 20 PSF LL = 40 PSF
BRICK VENEER:	37 PSF

q 1/50
qCF = 120 PCF

*PRIOR TO APPLICABLE LOAD FACTORS

CONSTRUCTION MATERIAL:

- CONCRETE NOTES:
1. CONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.
2. ALL CONCRETE TO BE MIN. 20 MPA @ 28 DAY STRENGTH = EXPOSURE CLASS C-1
3. ALL CONCRETE & DETAILING TO CAN-CSA A23.1 AND CAN-CSA A23.3 REINFORCING STEEL TO BE MIN GRADE 400, DEFORMED STEEL BILLETS
4. MAINTAIN MIN. 3" COVER FROM BOTTOM & 2" COVER FROM ALL OTHER SIDES. PROVIDE SUFFICIENT CHAIRS TO MAINTAIN ADEQUATE COVER
5. LAP REINFORCING STEEL FOR MIN. CLASS "B" DEVELOPMENT EPOXIES WHERE USED IN CONCRETE SHALL BE HILTI HY200 ADHESIVE ANCHORING SYSTEM OR APPROVED EQUAL
6. INSULATED FORM CONCRETE WALLS HAVE BEEN DESIGNED AS LATERALLY BRACED AT TOP & AT BOTTOM OF WALL, ENSURE ALL FRAMING COMPLIES WITH CRITERIA SET FORWARD IN SECTION 9.20 OF THE OBC TO SATISFY THIS CRITERIA.
7. DESIGN SHALL BE REVIEWED BY ENGINEER UPON RECEIVING THE FINAL FLOOR JOIST & ROOF TRUSS LAYOUT SEALED BY P-ENG LICENSED IN ONTARIO. SOME ADJUSTMENT MAY BE REQUIRED.

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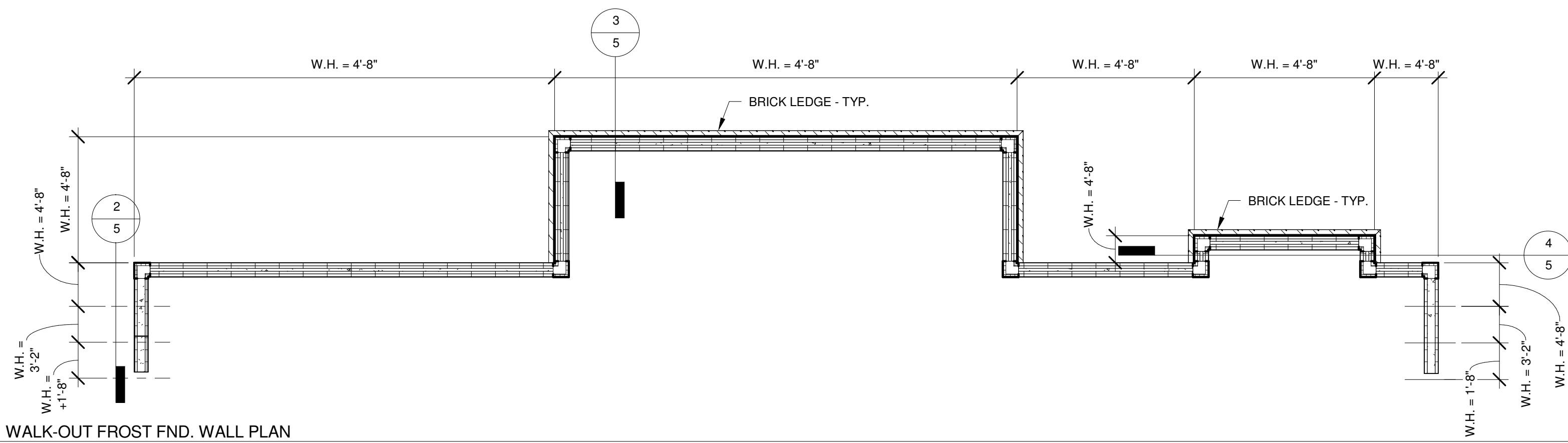
DRAWING SCALE :

12" = 1'-0"

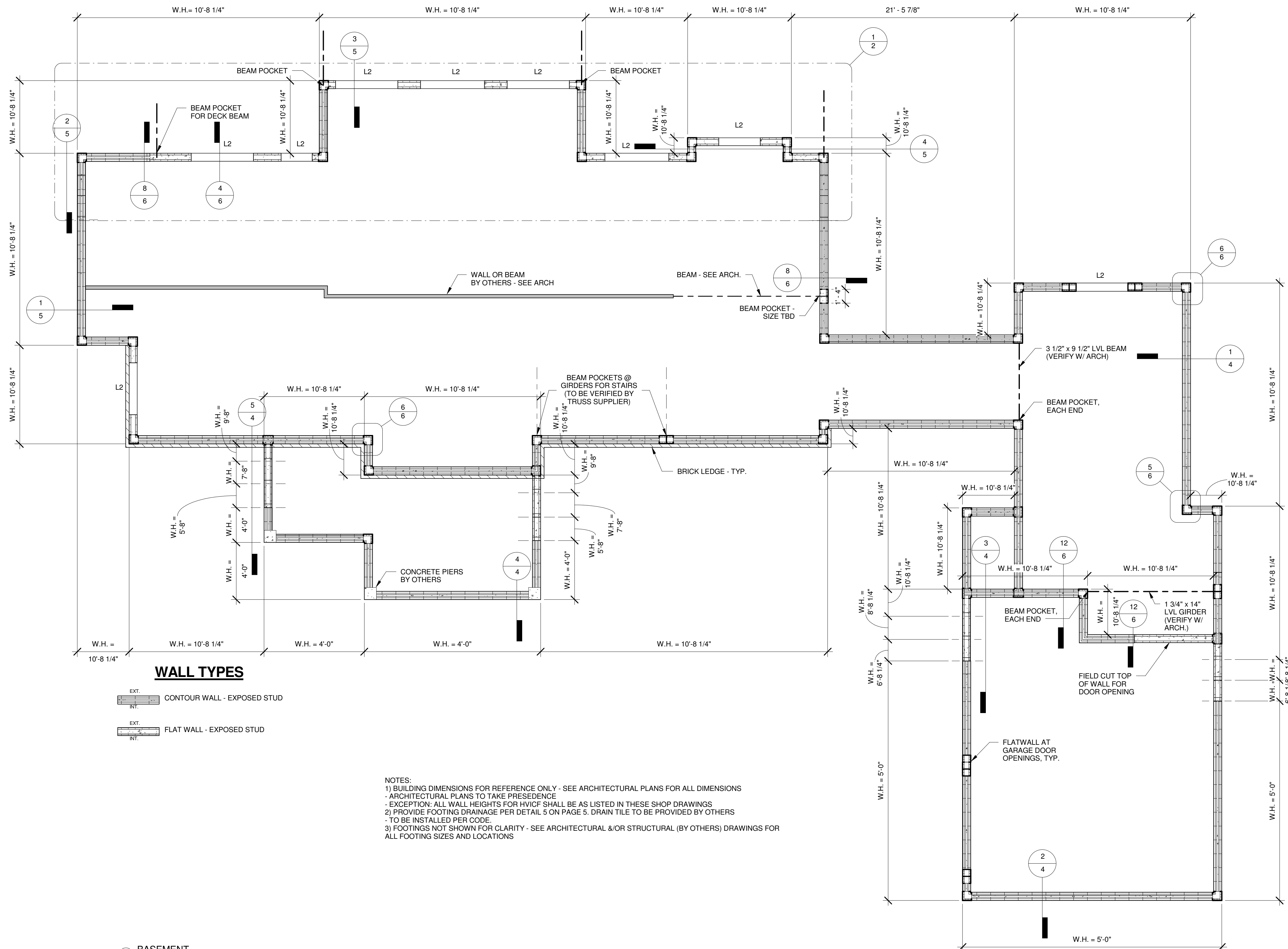
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COVER SHEET

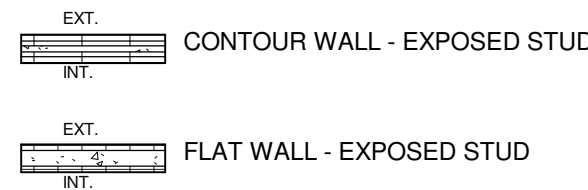
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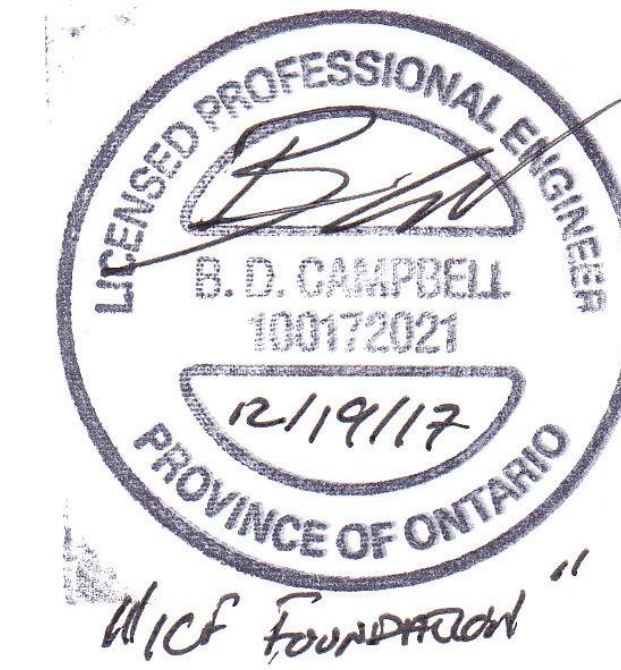
1 WALK-OUT FROST FND. WALL PLAN
3/16" = 1'-0"

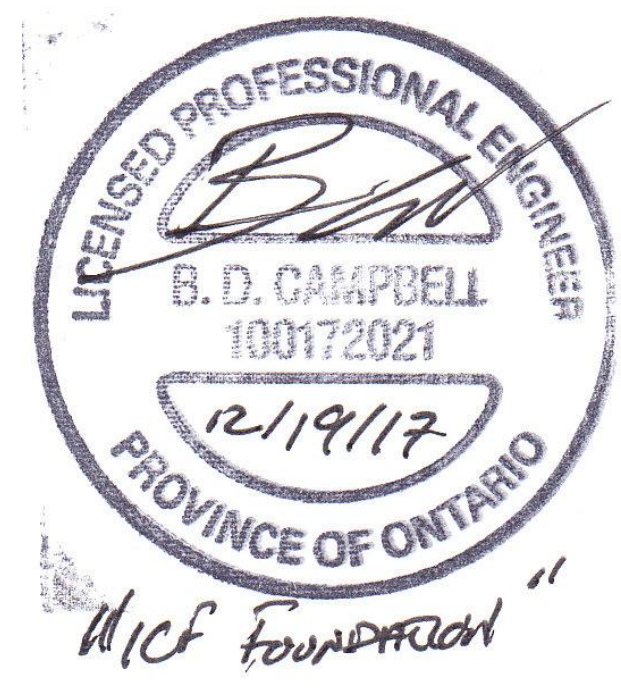
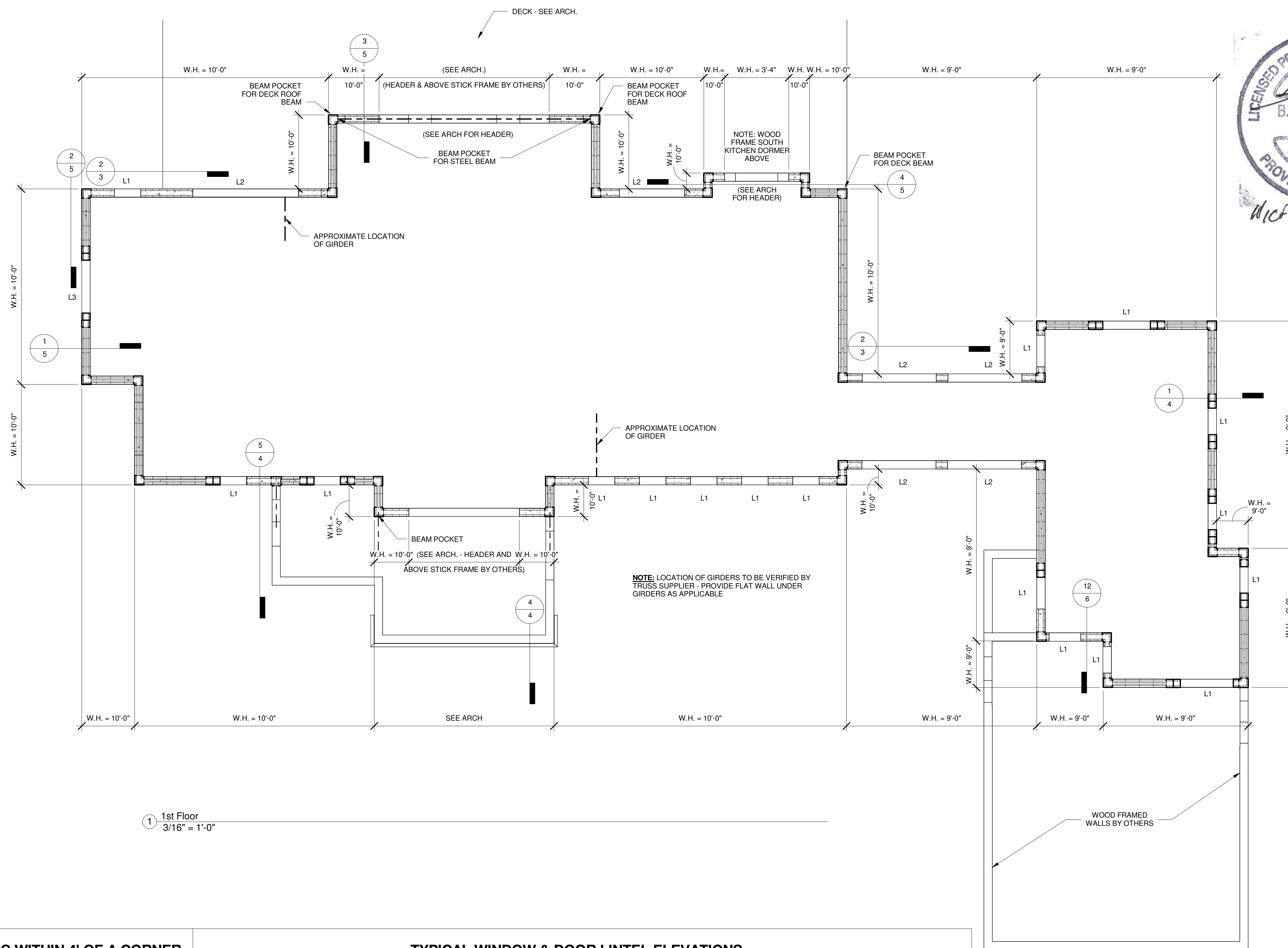


WALL TYPES



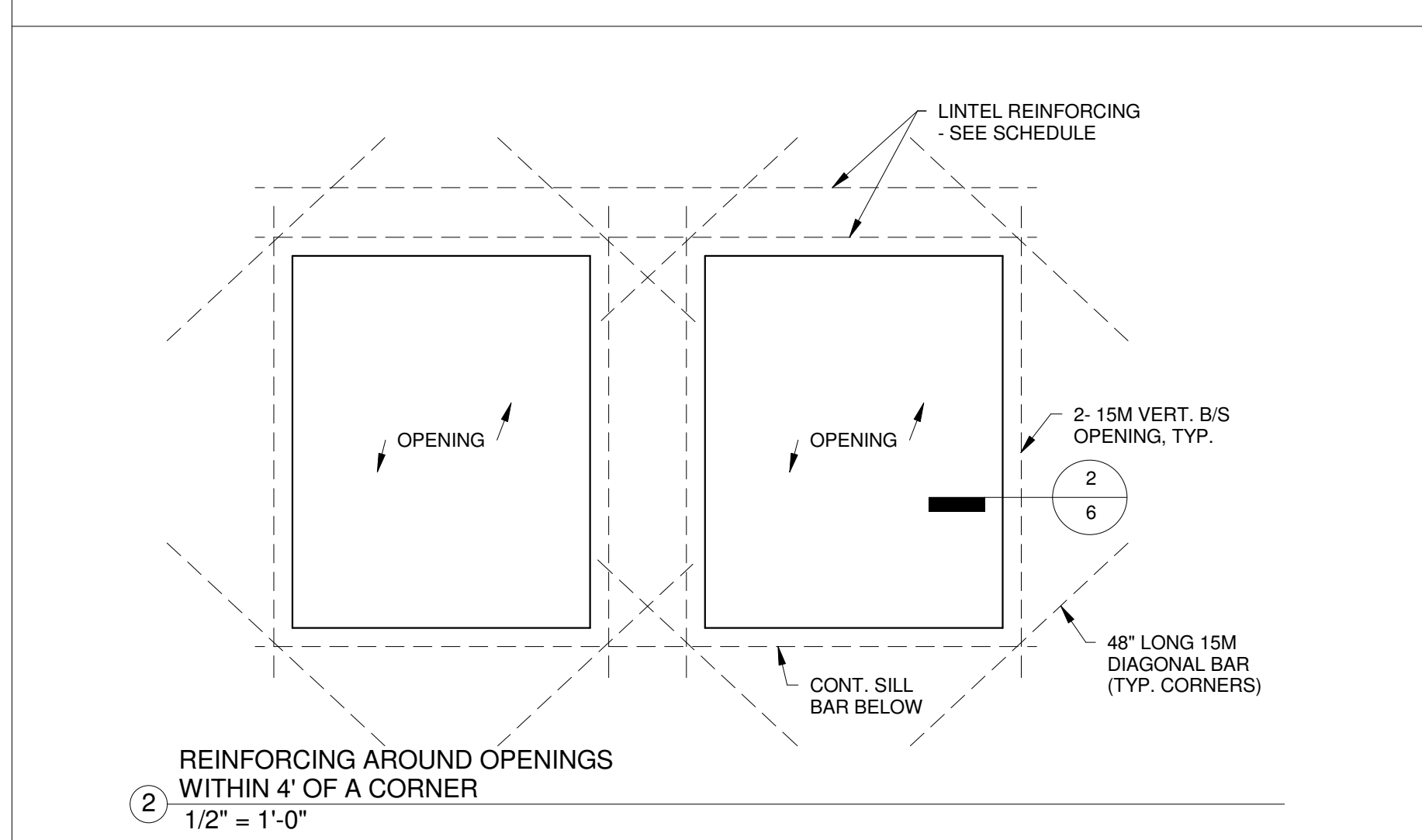
- NOTES:
- 1) BUILDING DIMENSIONS FOR REFERENCE ONLY - SEE ARCHITECTURAL PLANS FOR ALL DIMENSIONS - ARCHITECTURAL PLANS TO TAKE PRECEDENCE - EXCEPTION: ALL WALL HEIGHTS FOR HWCF SHALL BE AS LISTED IN THESE SHOP DRAWINGS
 - 2) PROVIDE FOOTING DRAINAGE PER DETAIL 5 ON PAGE 5, DRAIN TILE TO BE PROVIDED BY OTHERS - TO BE INSTALLED PER CODE.
 - 3) FOOTINGS NOT SHOWN FOR CLARITY - SEE ARCHITECTURAL &/OR STRUCTURAL (BY OTHERS) DRAWINGS FOR ALL FOOTING SIZES AND LOCATIONS



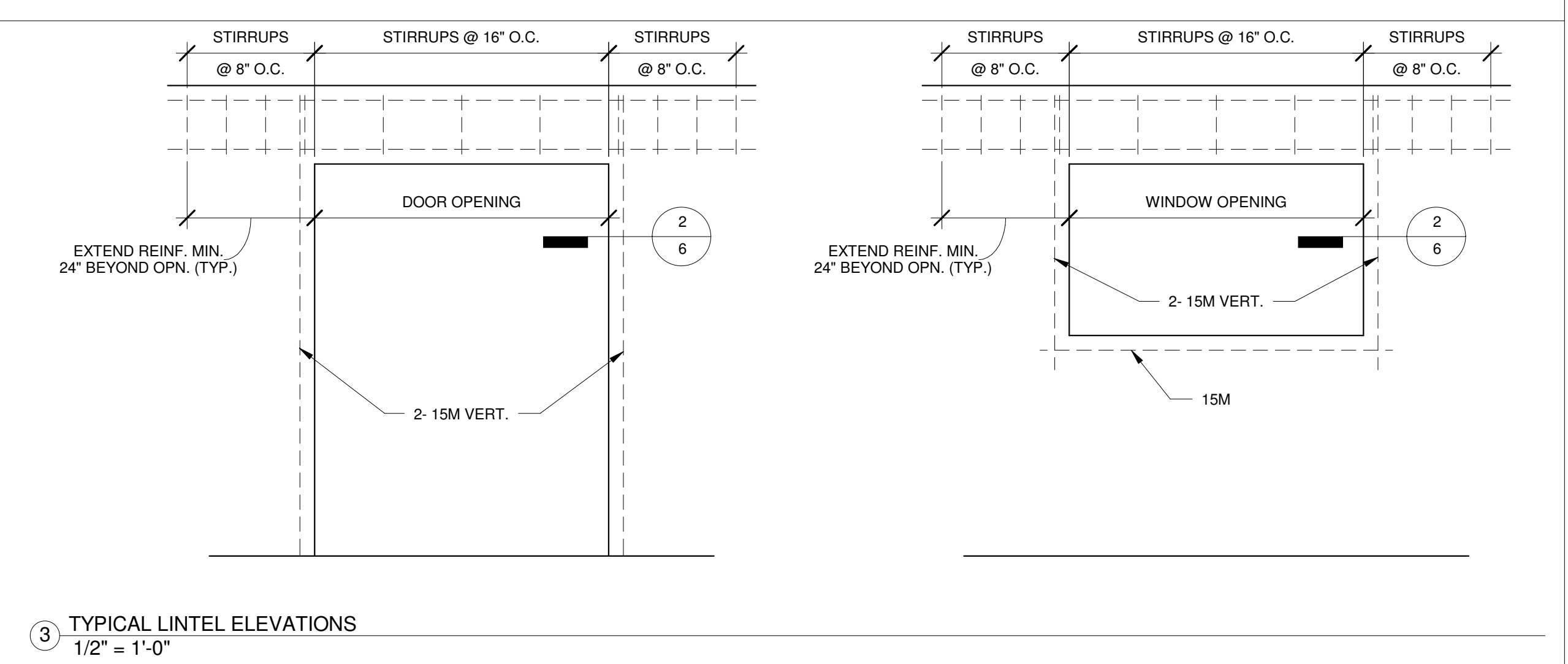


1 1st Floor
3/16" = 1'-0"

ELEVATION DETAIL - TO BE USED ON OPENINGS WITHIN 4' OF A CORNER



TYPICAL WINDOW & DOOR LINTEL ELEVATIONS



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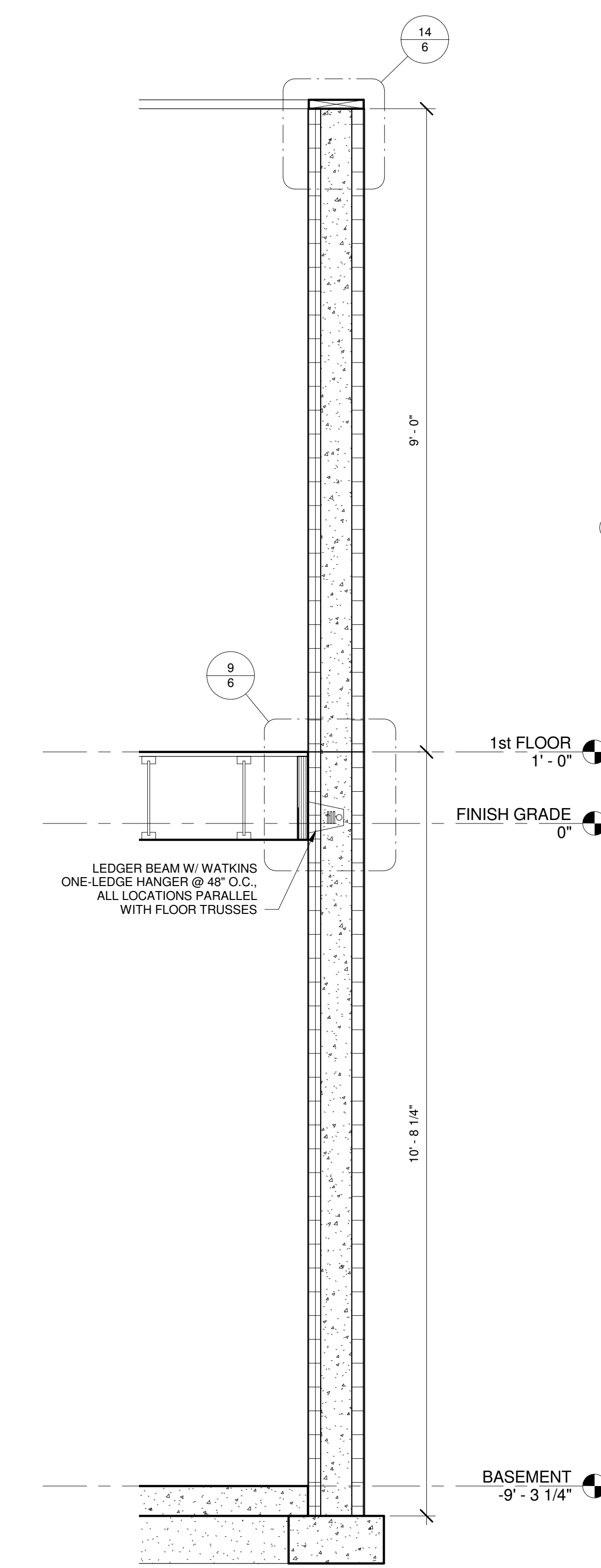
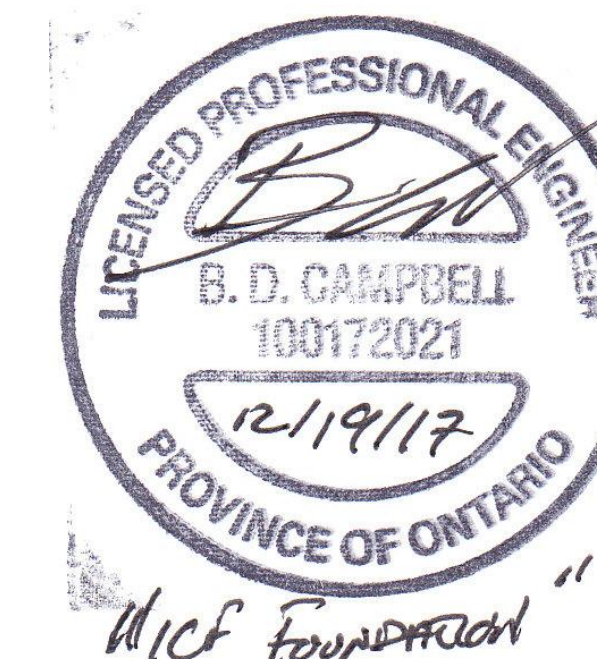
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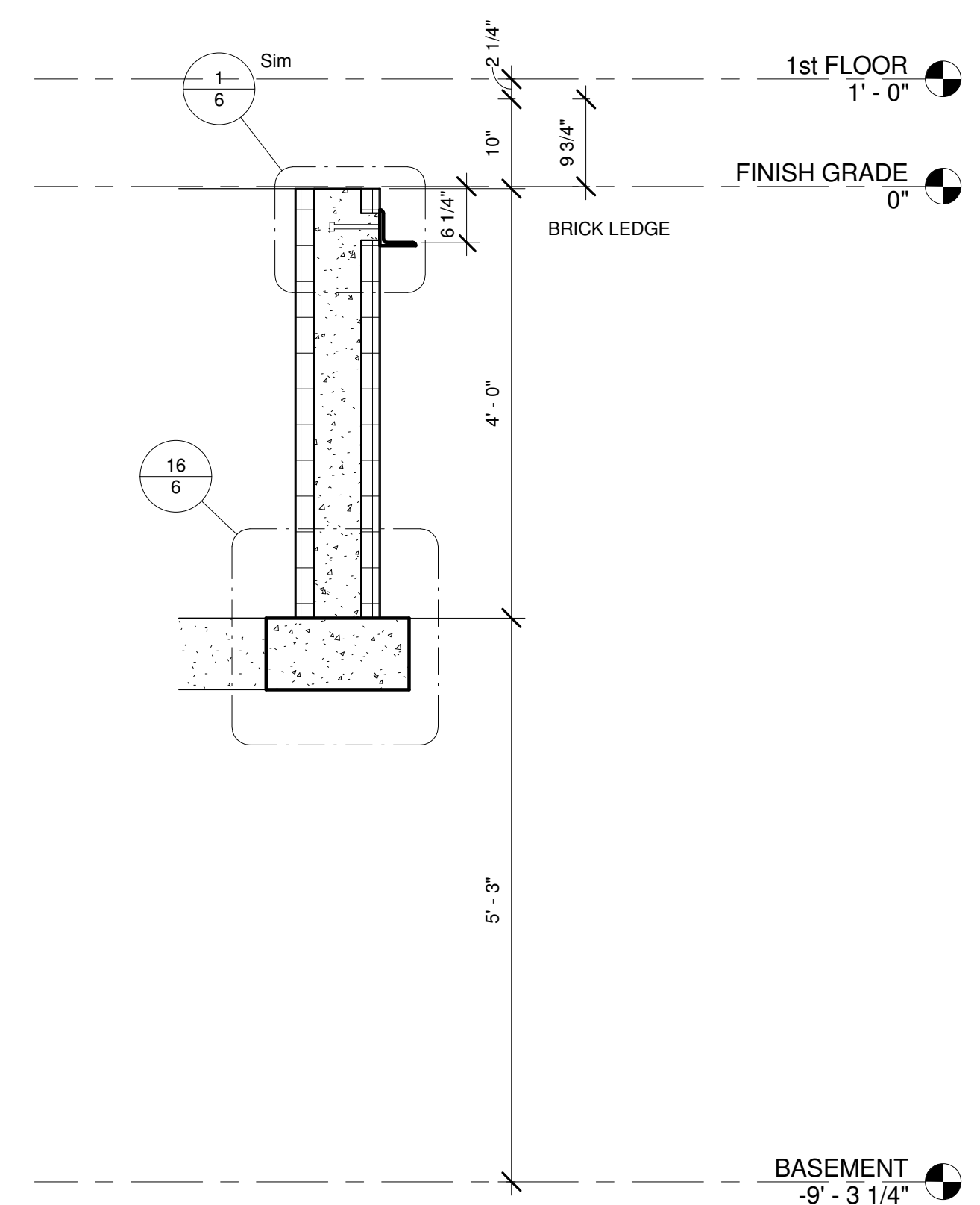
DRAWING SCALE :
As indicated

DRAWING NAME :
LAYOUT PLAN

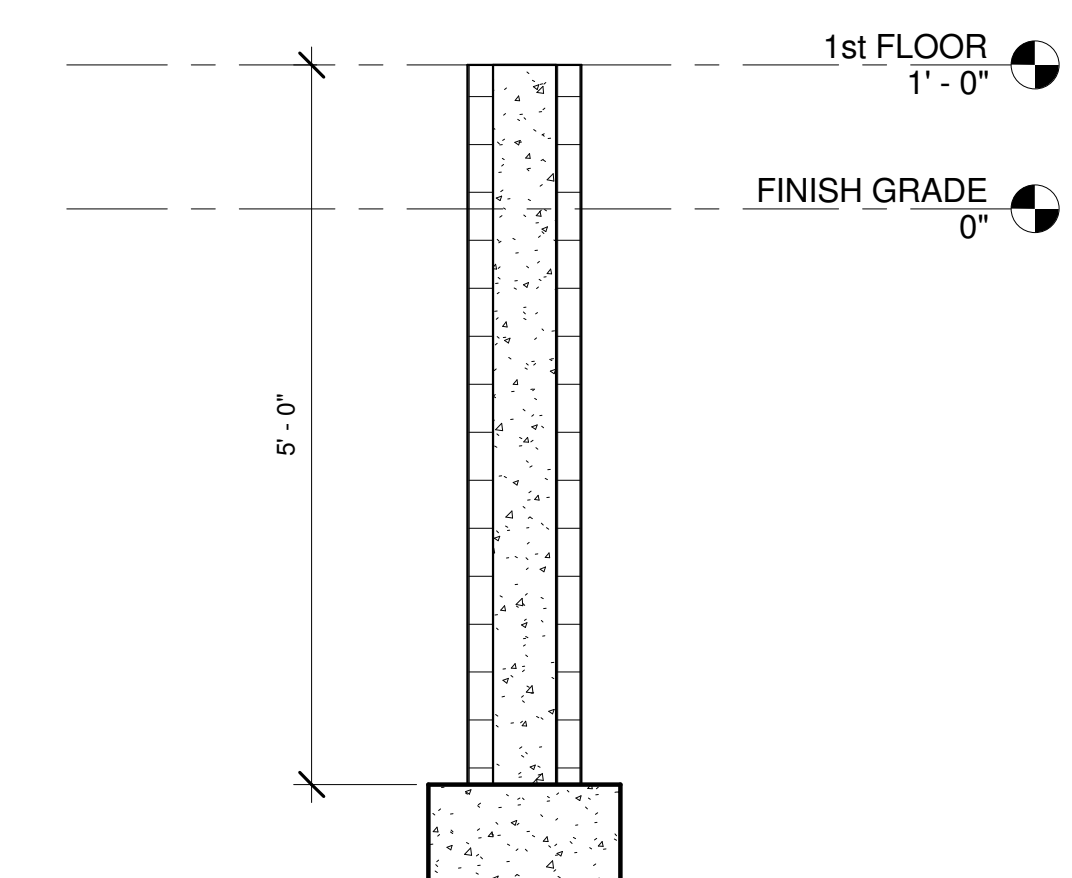
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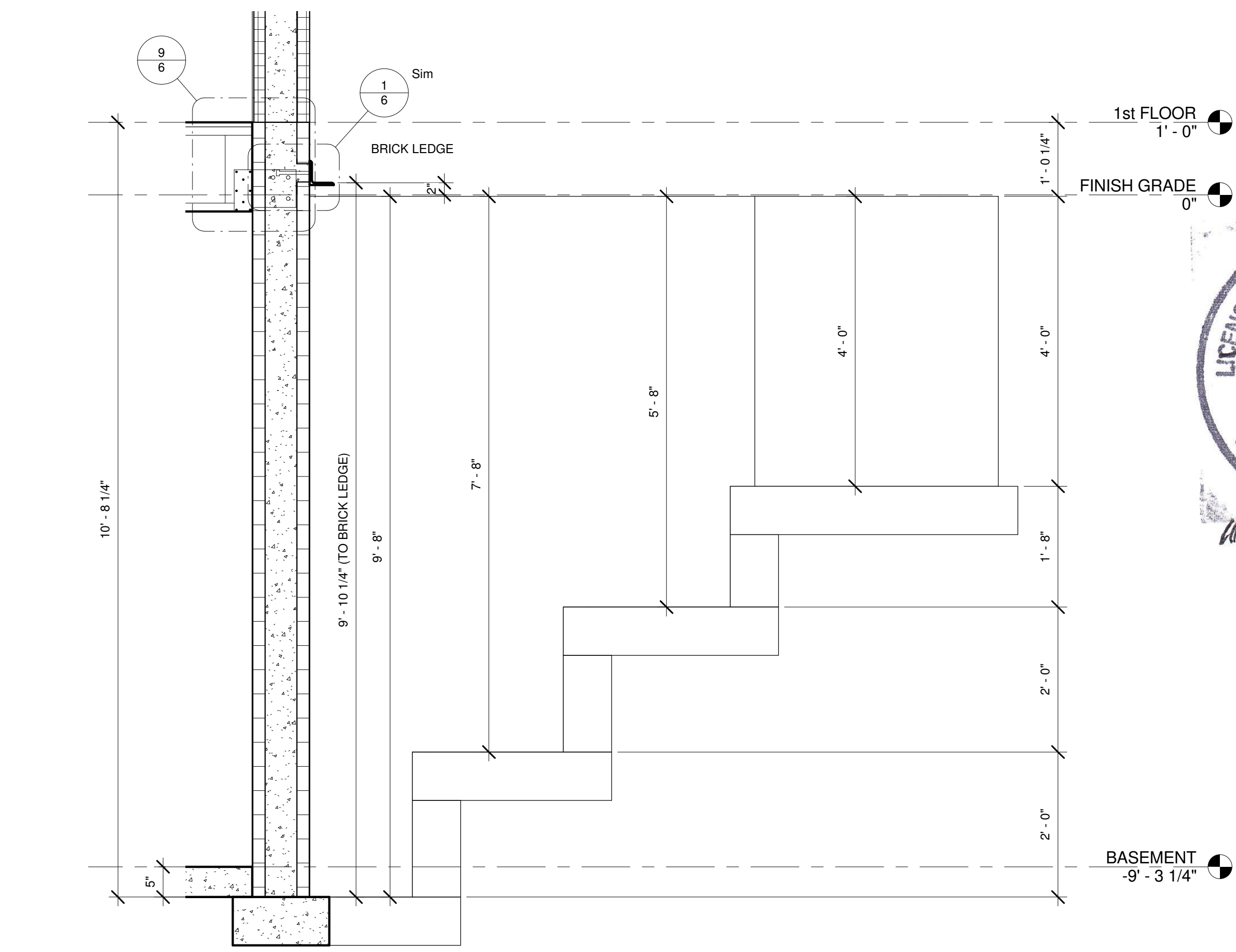
1 GARAGE WING WALL SECTION
3/4" = 1'-0"



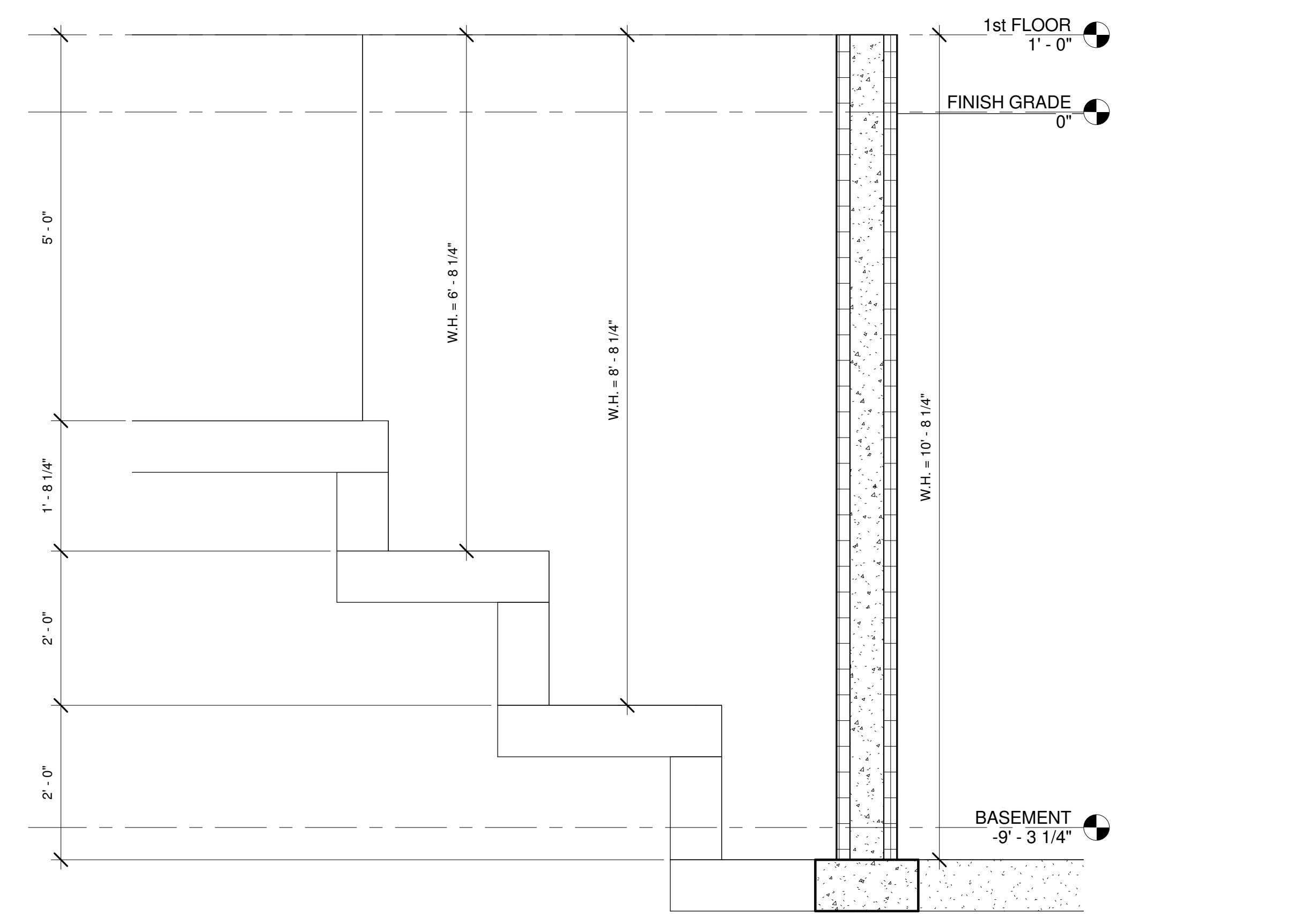
4 PORTICO FND. SECTION
3/4" = 1'-0"



2 GARAGE FND. SECTION
3/4" = 1'-0"



5 PORTICO STEP FTG. ELEVATION
3/4" = 1'-0"



3 GARAGE STEP FTG. ELEVATION
3/4" = 1'-0"

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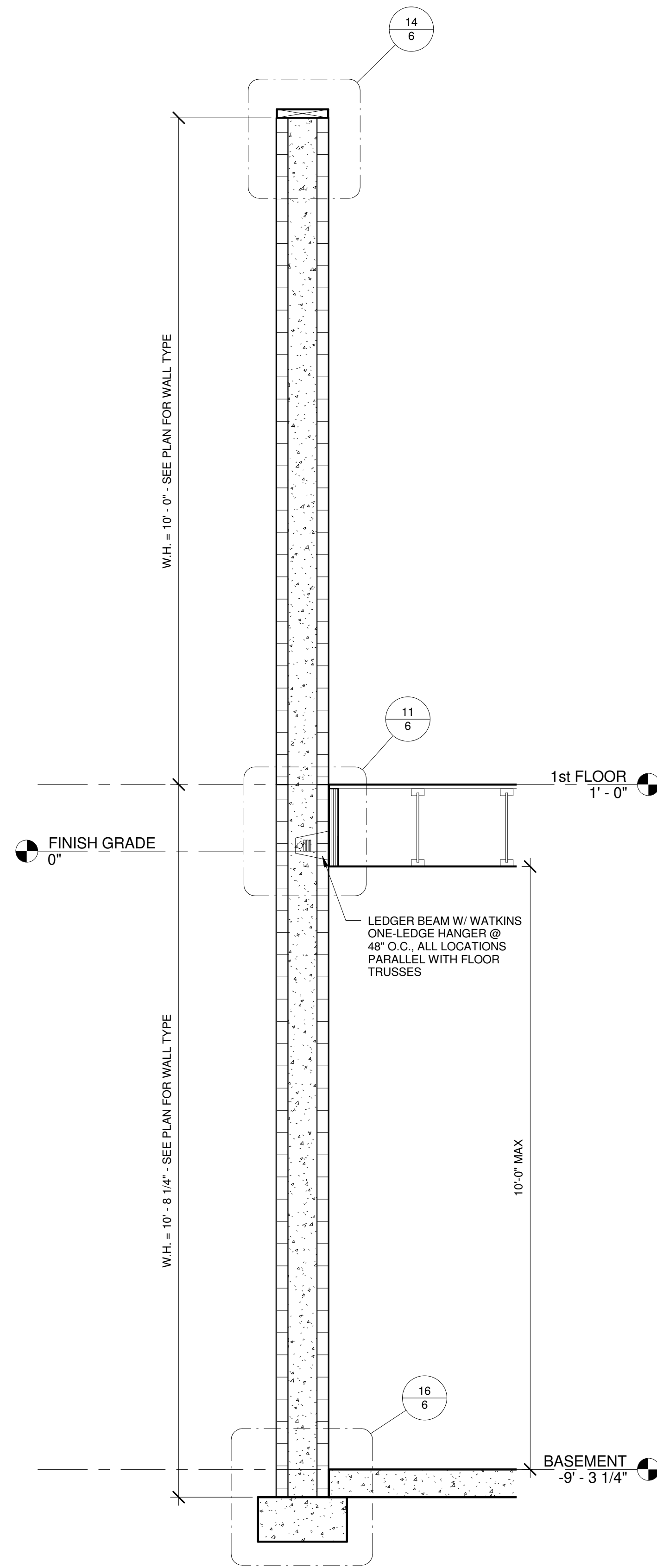
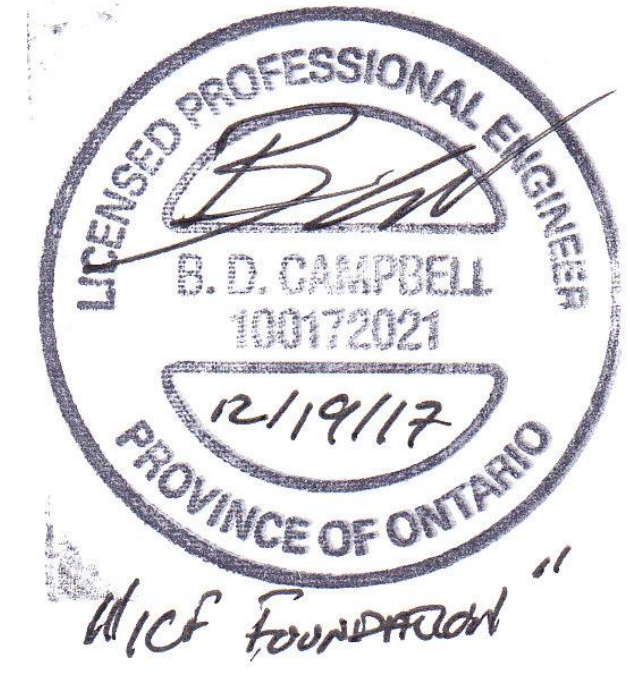
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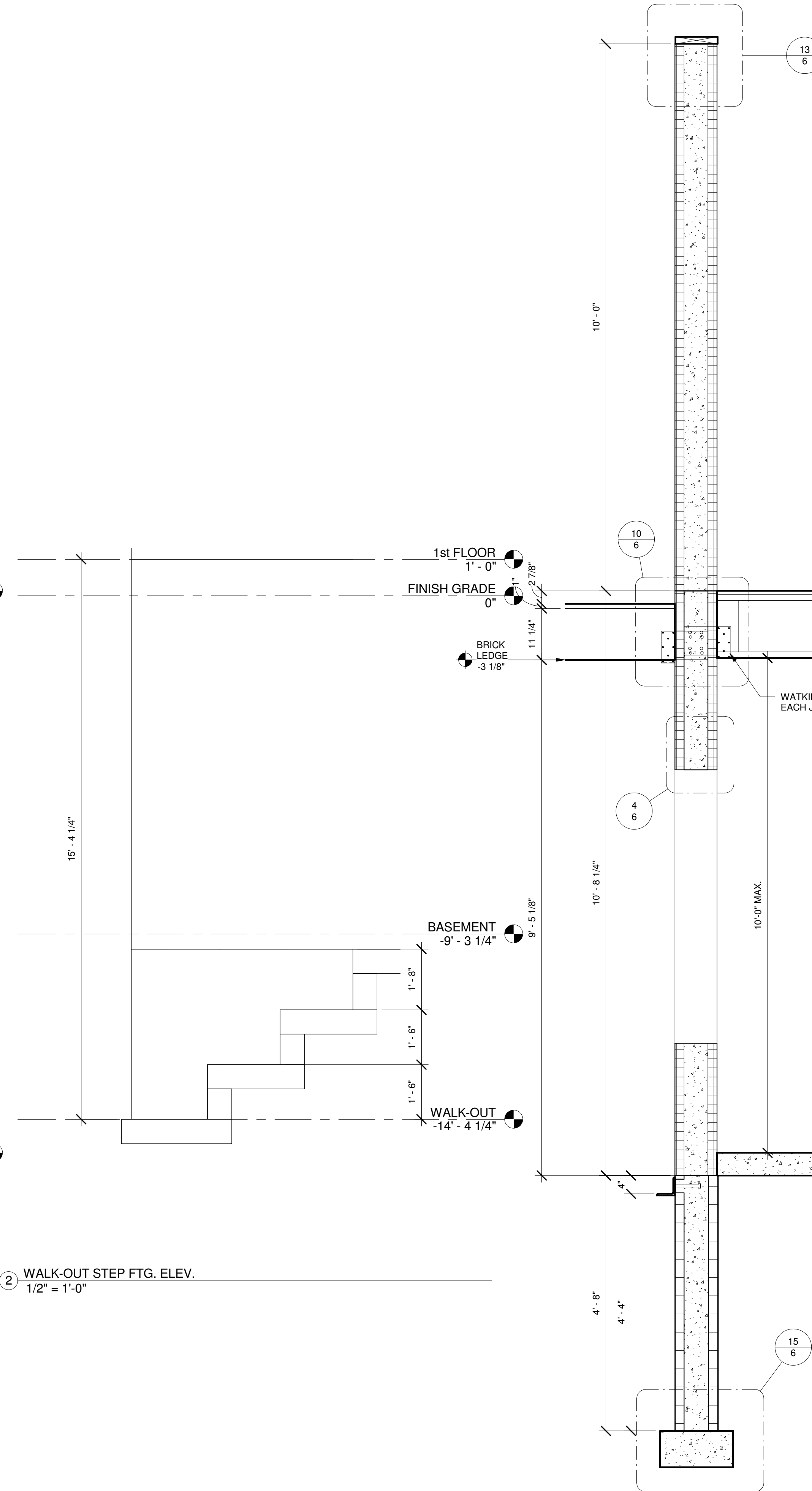
DRAWING SCALE :
3/4" = 1'-0"
DRAWING NAME :
WALL SECTIONS

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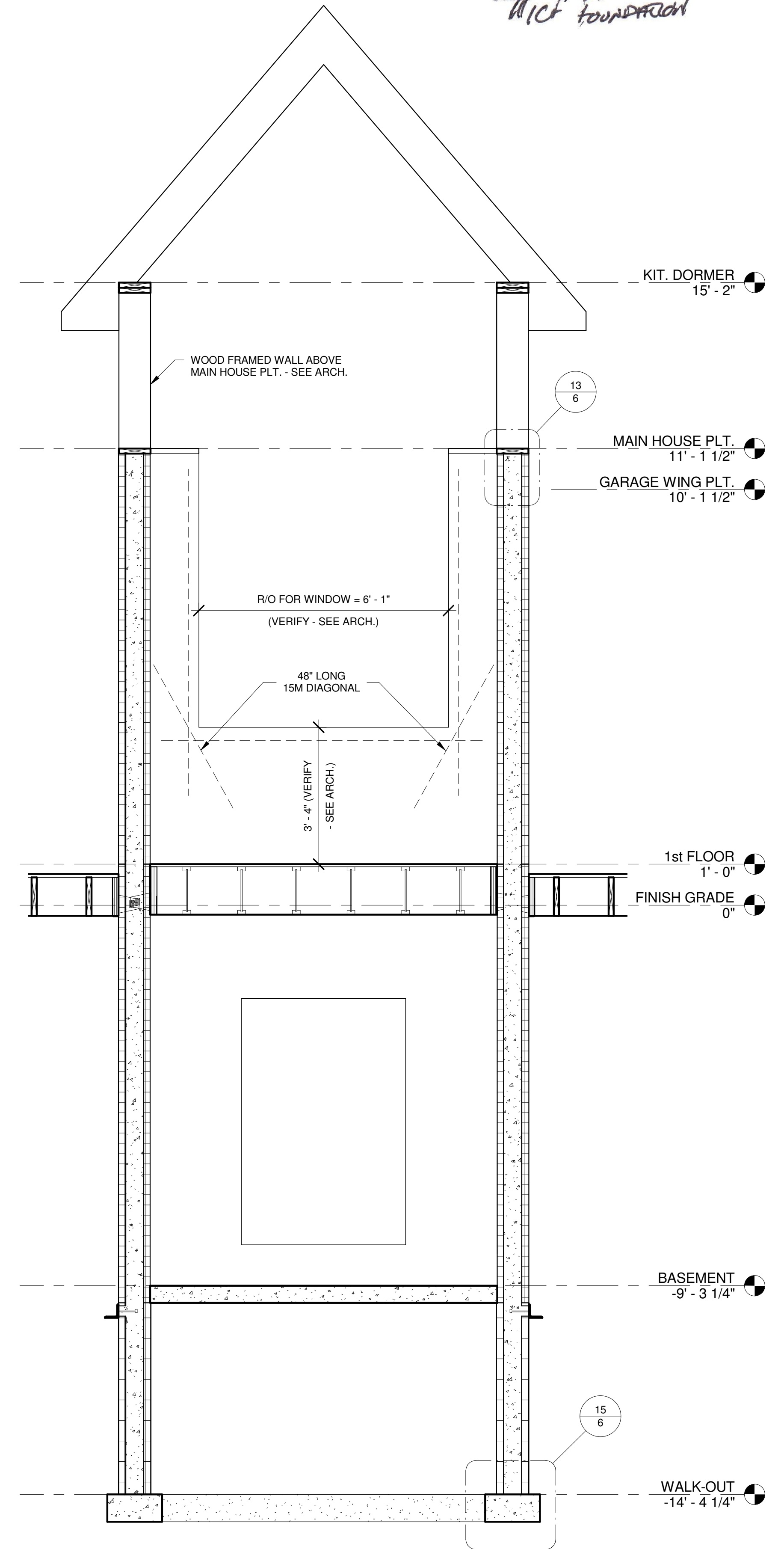


1 MAIN HOUSE WALL SECTION
3/4" = 1'-0"



2 WALK-OUT STEP FTG. ELEV.
1/2" = 1'-0"

3 WALK-OUT WALL SECTION
3/4" = 1'-0"



4 KITCHEN DORMER SECTION
1/2" = 1'-0"

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DRAWING SCALE :

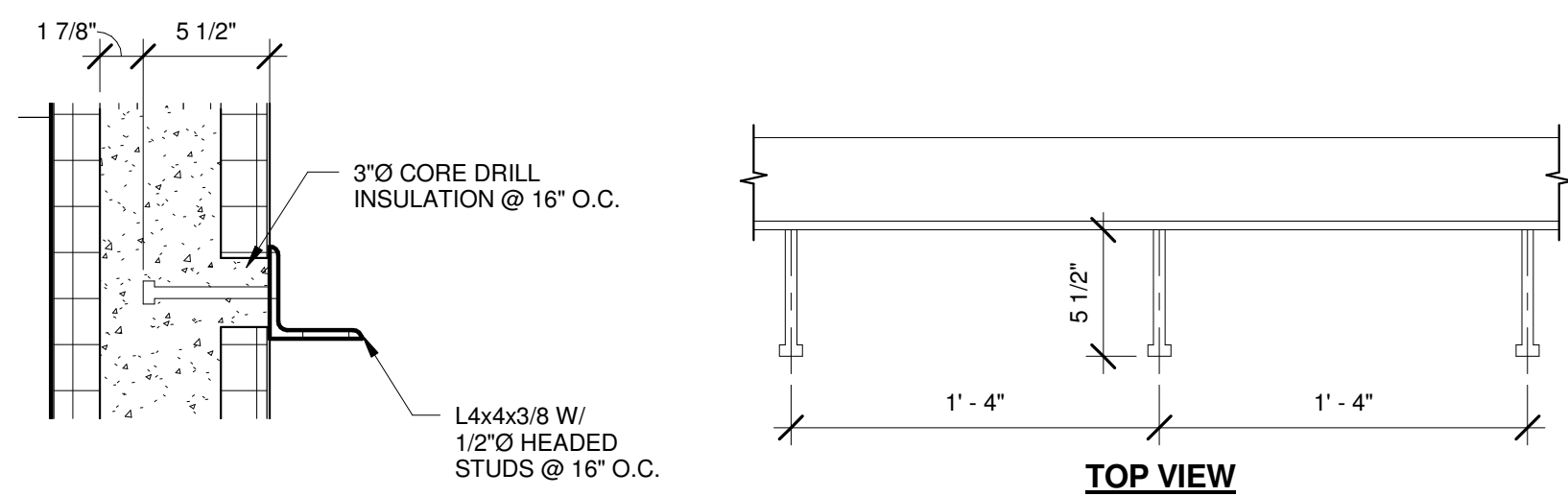
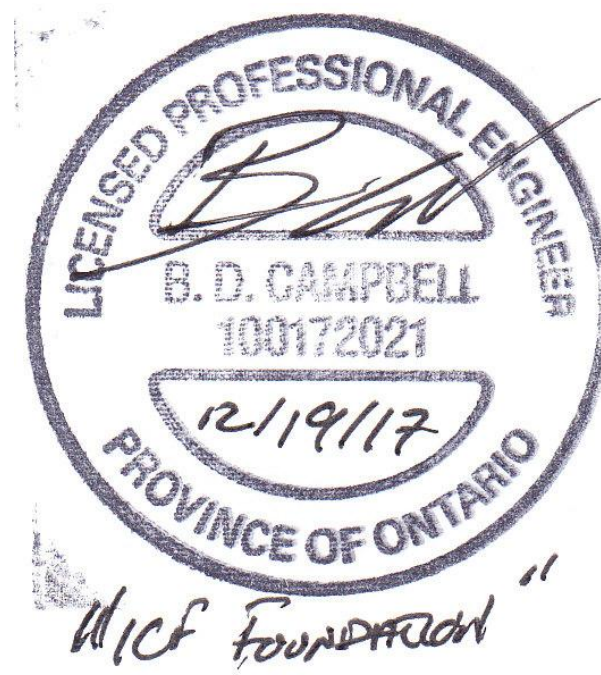
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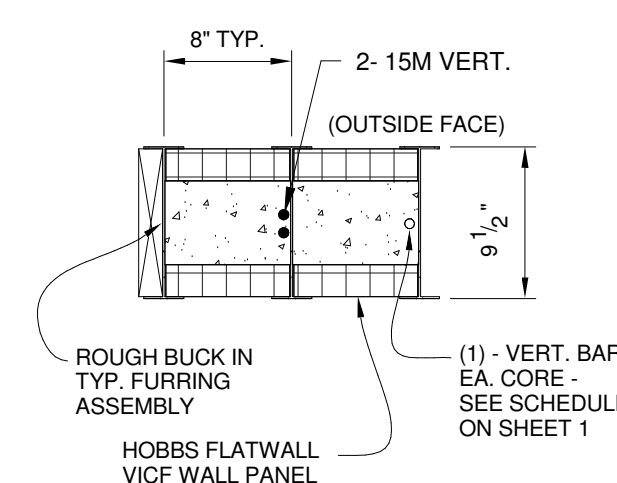
WALL SECTIONS

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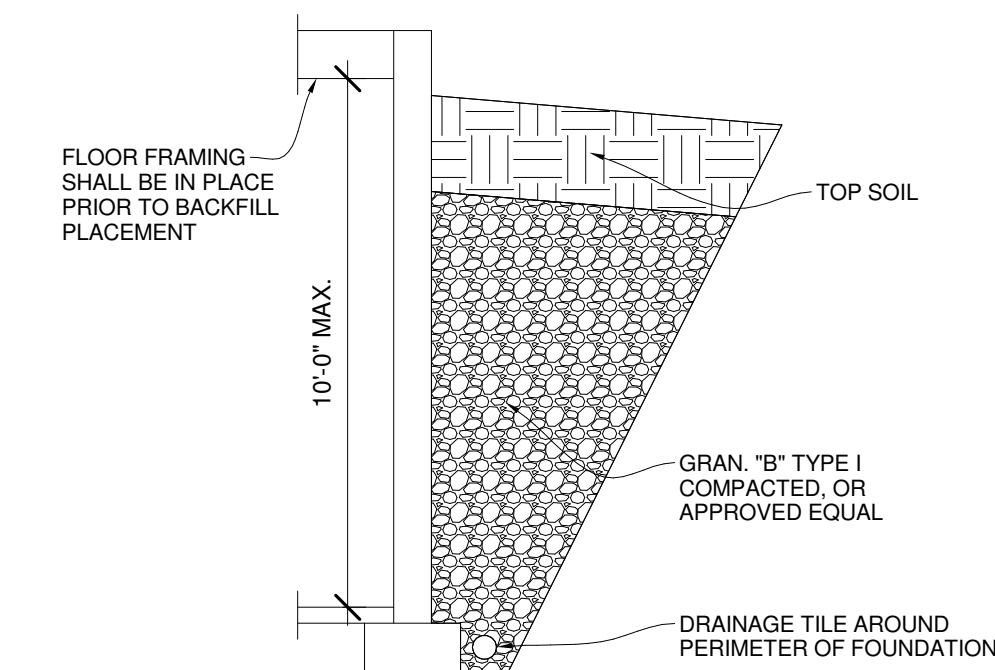
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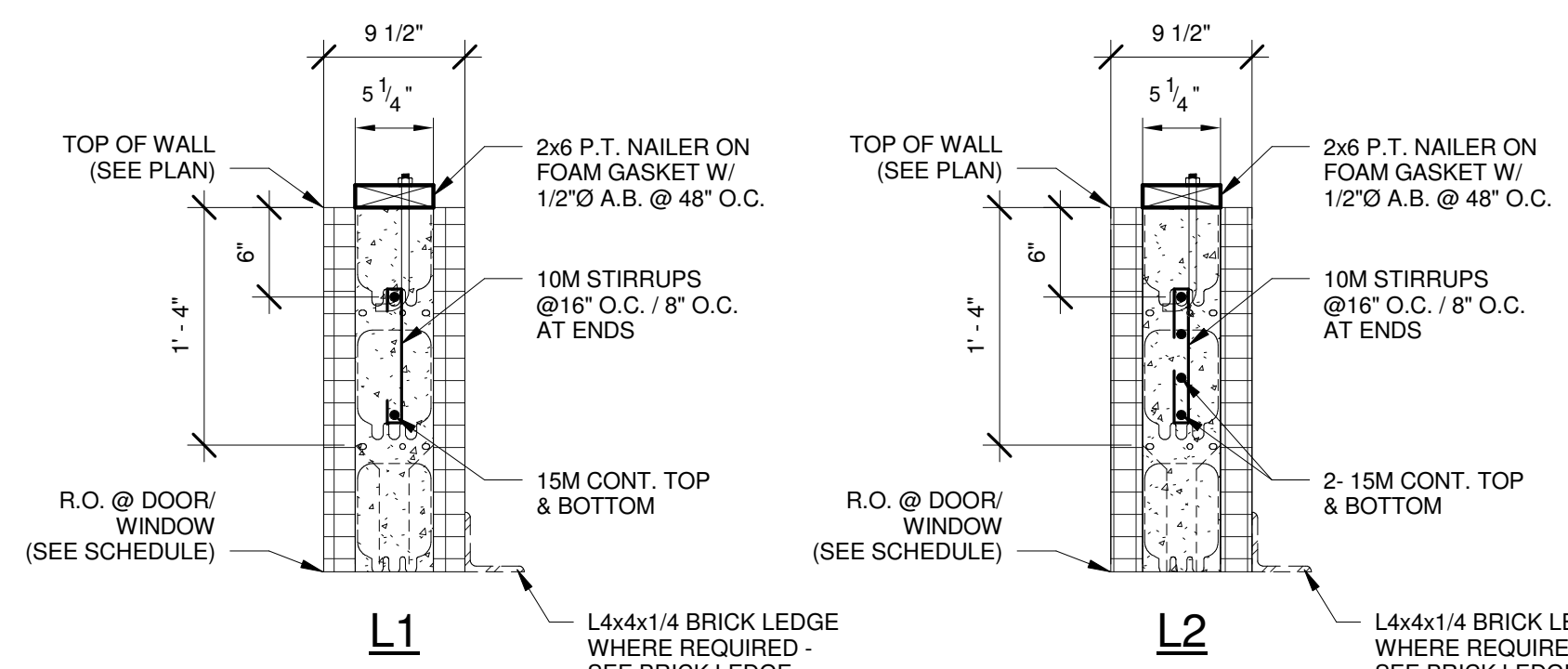
1 BRICK LEDGE
1 1/2" = 1'-0"



2 JAMB DETAIL
1" = 1'-0"

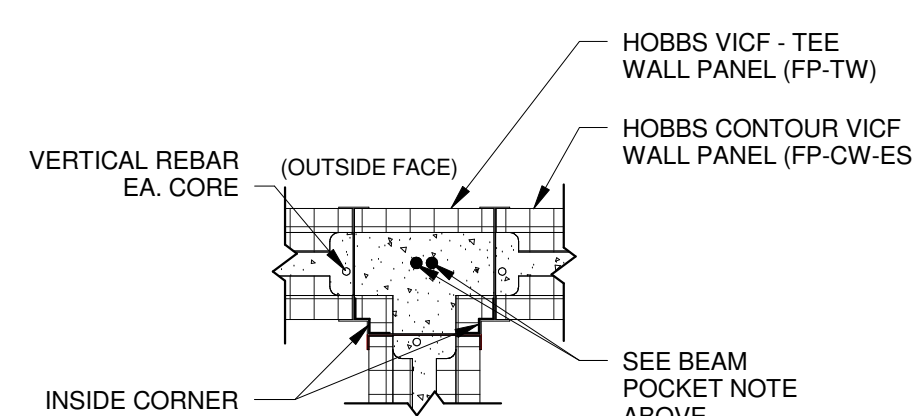


3 TYP. BASEMENT WALL SECTION
1/4" = 1'-0"

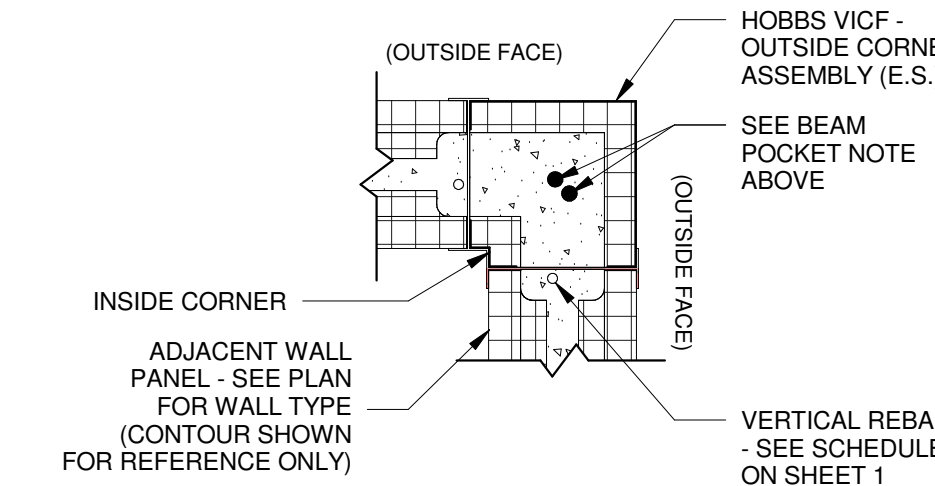


4 LINTEL DETAIL
1" = 1'-0"

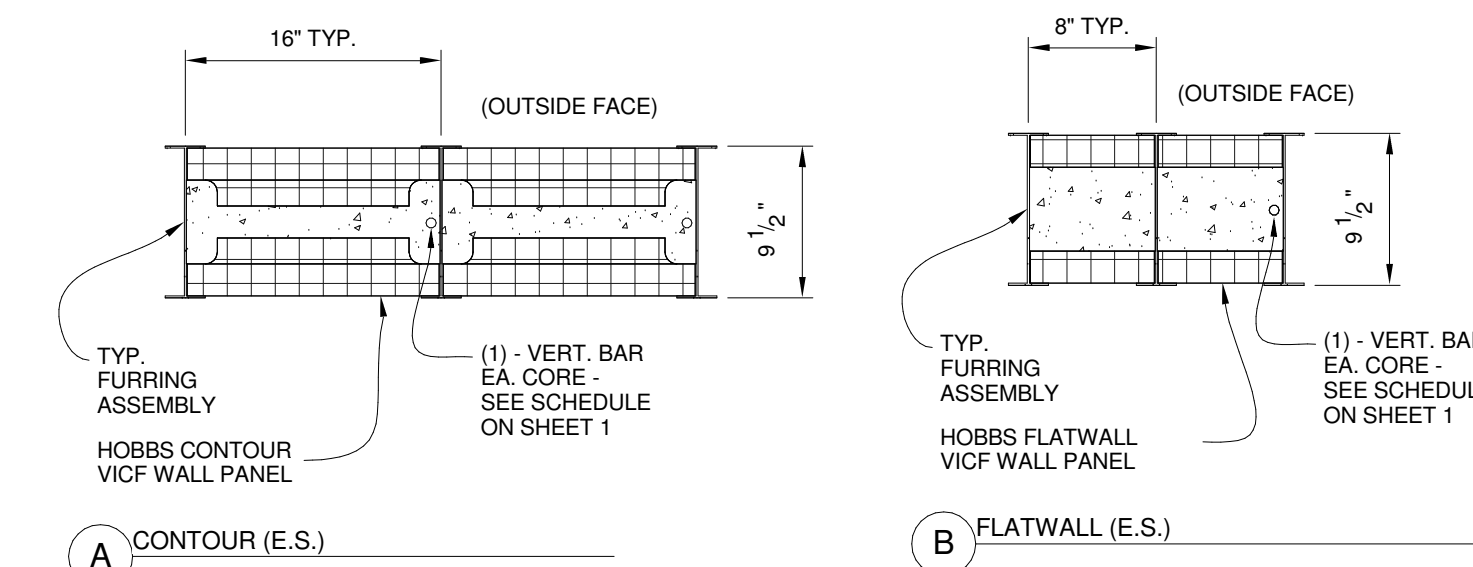
BEAM POCKET NOTE: ANY CORNER AND TEE WALL FORMS AT BEAM POCKETS TO HAVE 2- 15M VERT.



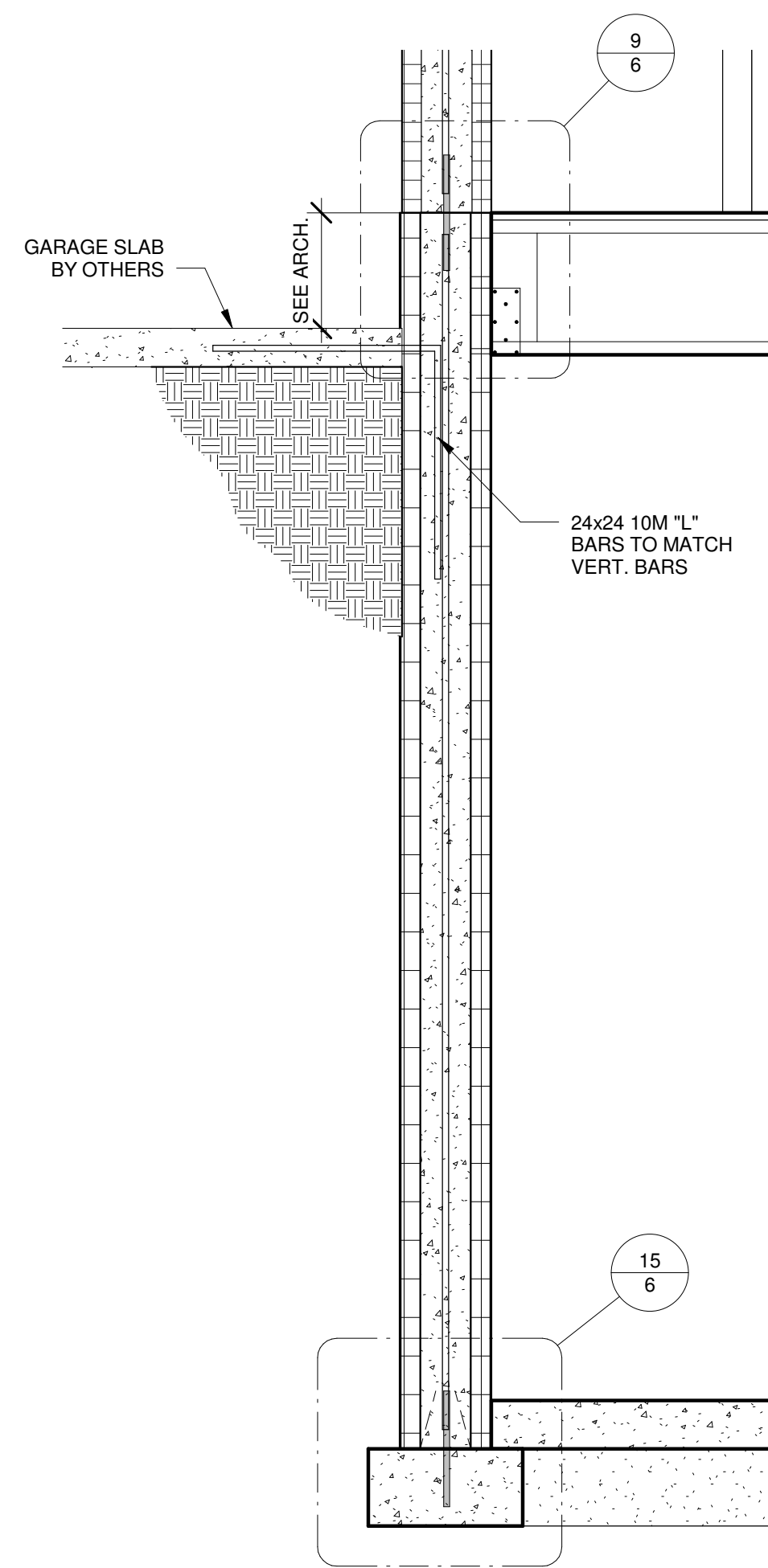
5 TEE WALL - EXPOSED STUD (E.S.)
3/4" = 1'-0"



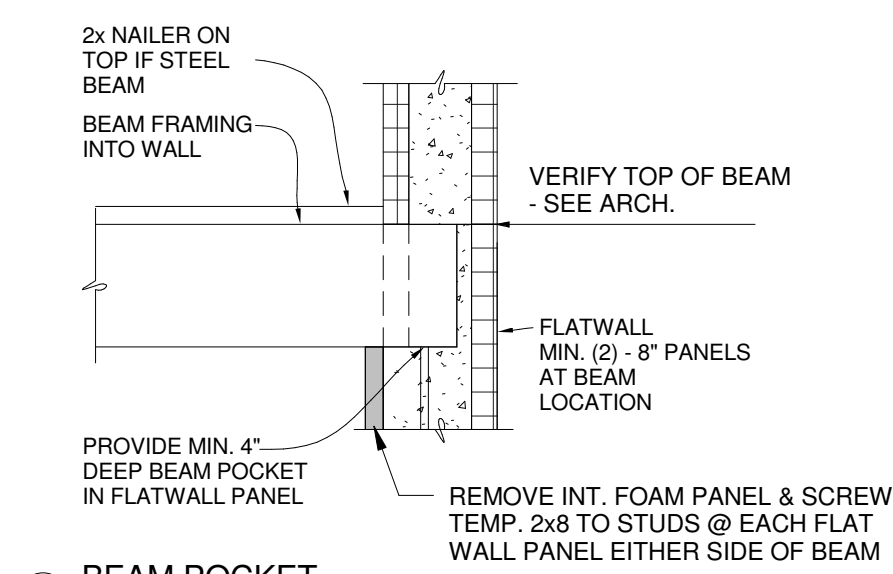
6 CORNER - EXPOSED STUD (E.S.)
1" = 1'-0"



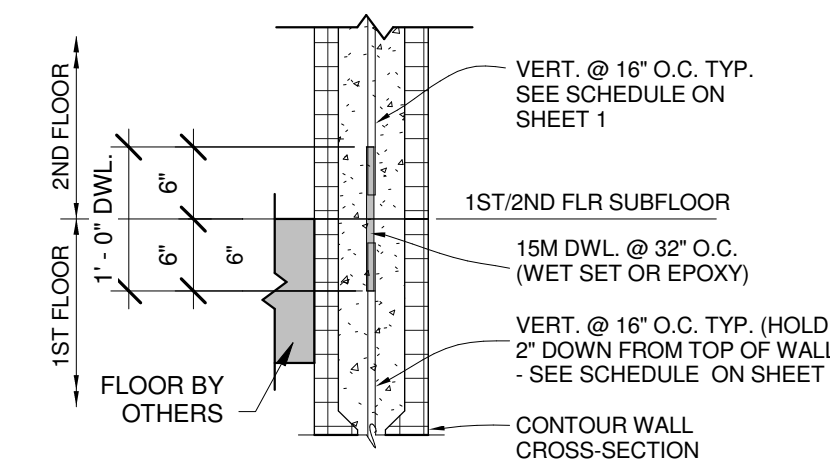
7 PLAN DETAILS
1" = 1'-0"



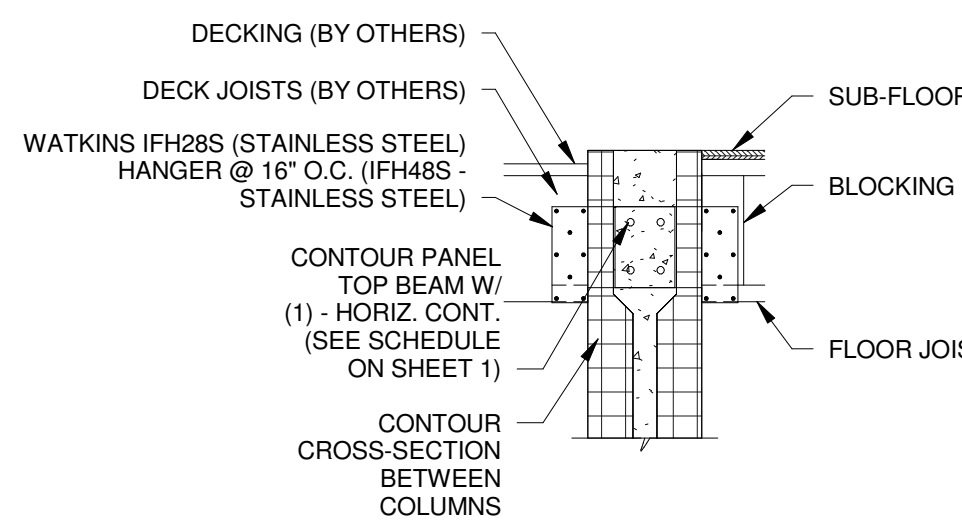
12 GARAGE/BASEMENT SECTION
3/4" = 1'-0"



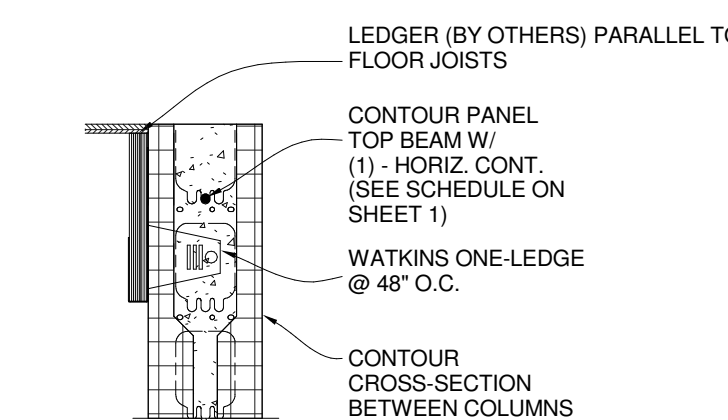
8 BEAM POCKET
3/4" = 1'-0"



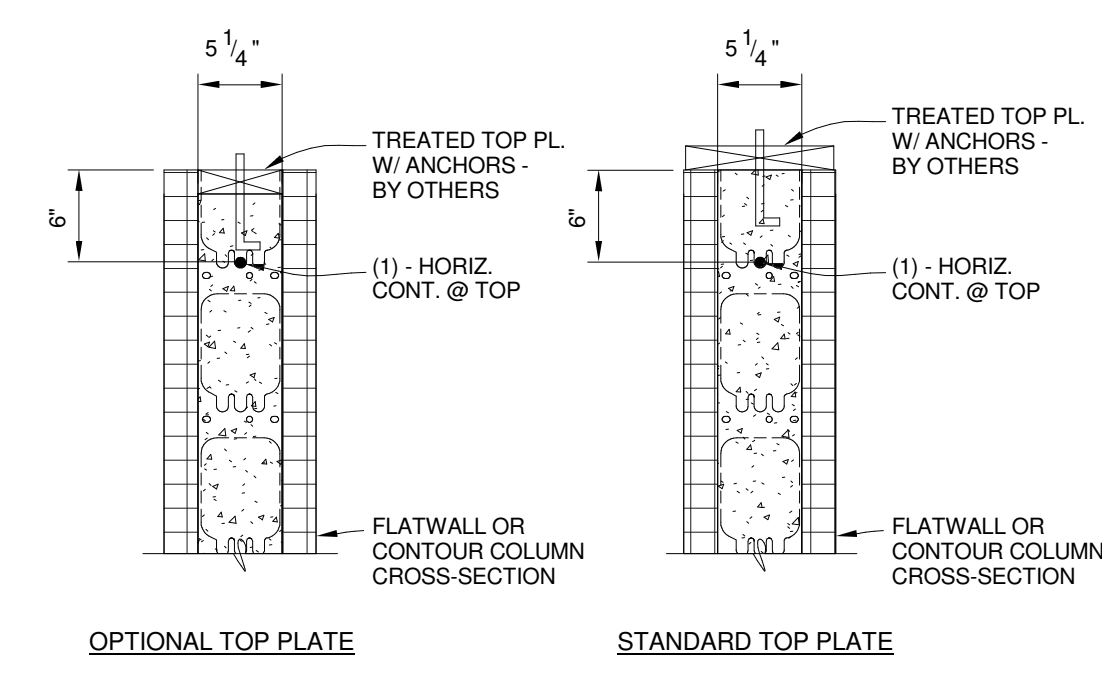
9 WALL CONNECTION - 1ST TO 2ND FLR
3/4" = 1'-0"



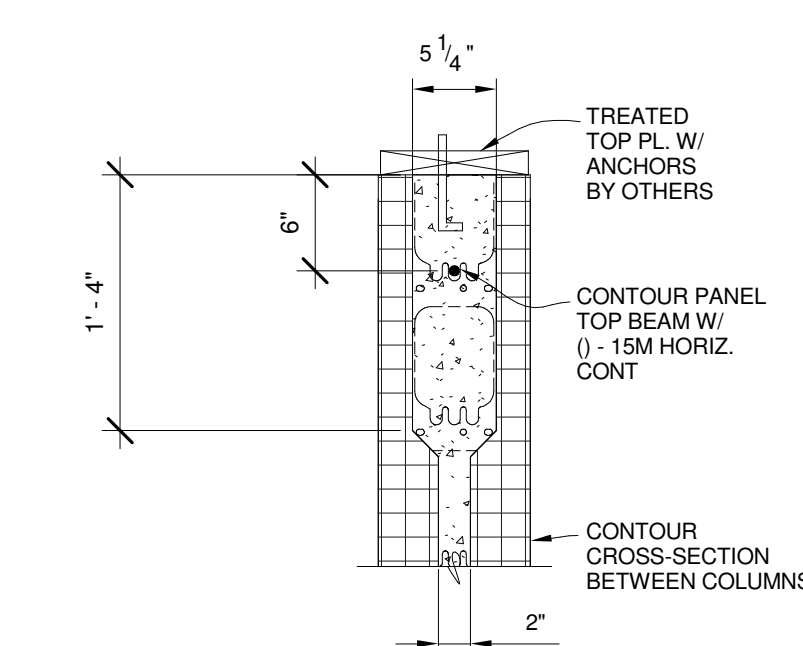
10 DECK JOIST HANGERS
3/4" = 1'-0"



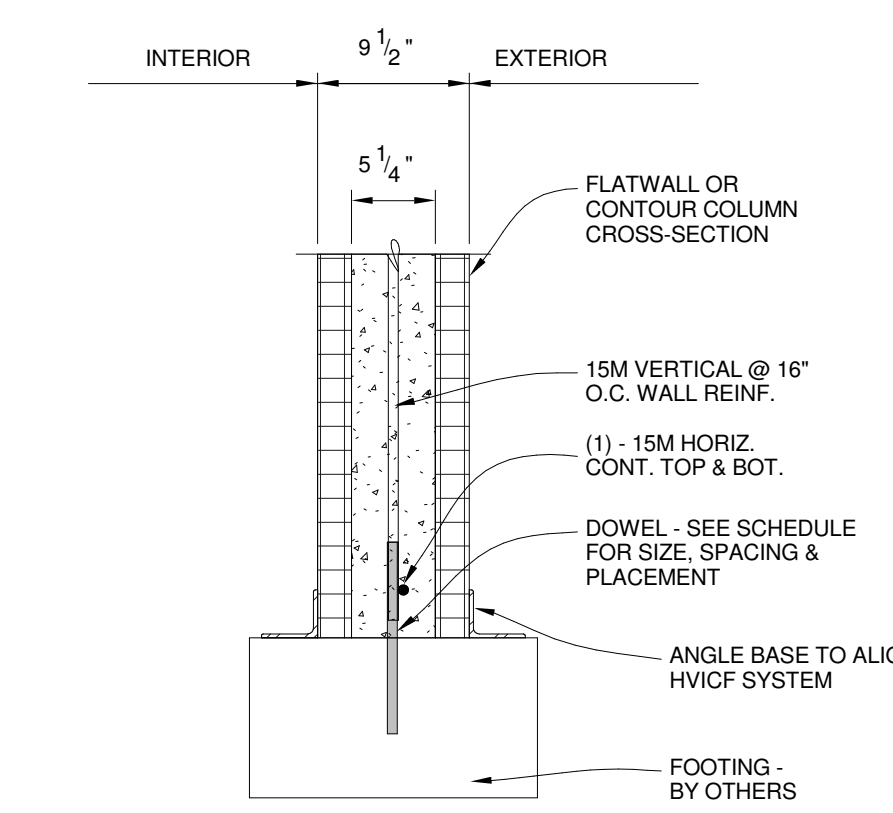
11 LEDGER BEAM
3/4" = 1'-0"



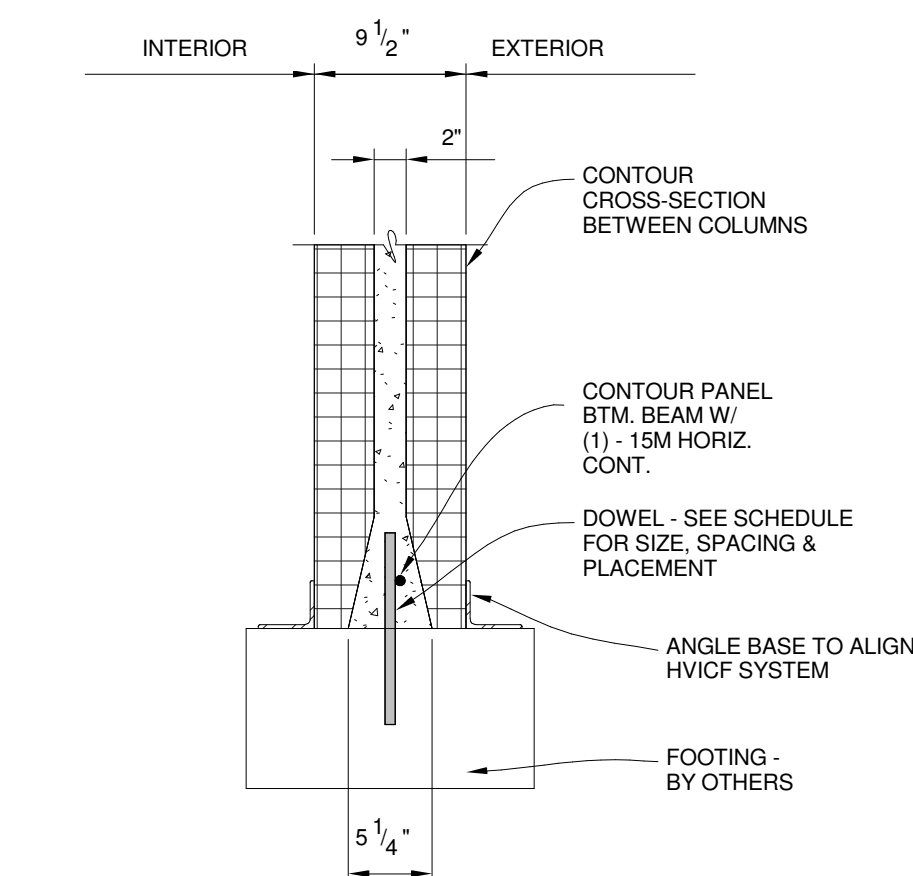
13 TOP OF WALL @ FLAT WALL
1" = 1'-0"



14 TOP OF WALL @ CONTOUR WALL
1" = 1'-0"



15 BOTTOM OF WALL @ FLAT WALL
1" = 1'-0"



16 BOTTOM OF WALL @ CONTOUR WALL
1" = 1'-0"

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DRAWING SCALE :

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DETAILS

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