

Expansion

Георгий Шпак | Проектировщик
415.858.4218 | 1egorshpak@gmail.com

Owner:

Mike Miller

Project:

New 3-story Duplex
6032 S Vermont Ave
Los Angeles, CA 90044

Revisions

No.	Description	Date

Proposed Floor Plan

Drawn by Egor Shpak

Date 04.02.2020

A2.0

Scale 1/4" = 1'-0"

6/23/2020 5:09:43 AM

Wall Legend

---	E wll
---	New std wll
---	2x4 @16" oc UNO
---	2x6 @16" oc @ plmbg wls
---	2x6 @16" oc @ ext wls
---	New std wll
---	1-hr w/ STC50
---	See A0.8

Detector Legend

SD	Smoke detector, shall be hardwired w/ battery backup
CD	Carbon detector, shall be hardwired w/ battery backup

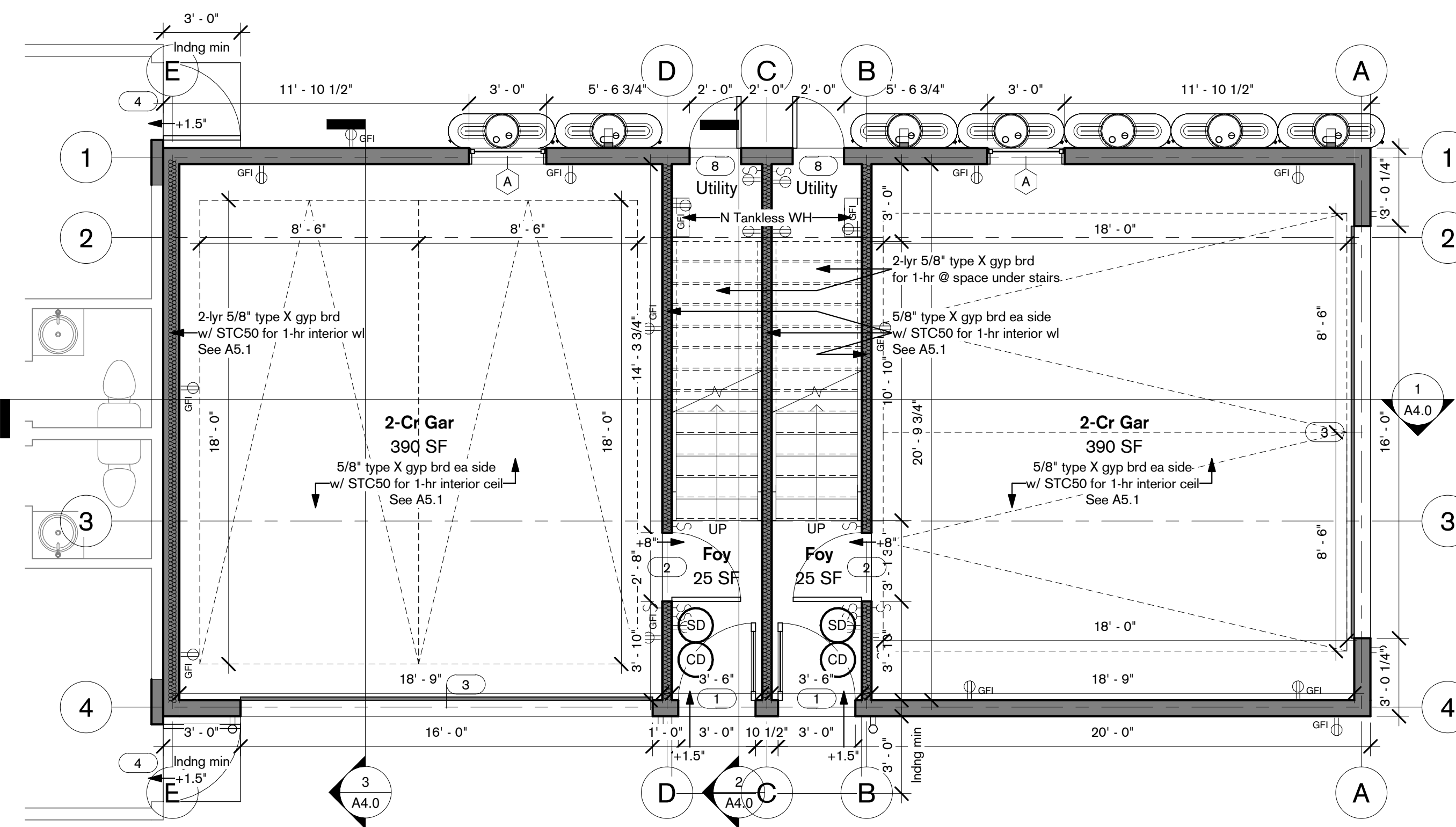
Exhaust fan 50 CFM, shall be "Energy Star" compliant, and ducted to terminate to the outside of the building. Fans not functioning as a component of the whole house ventilation, must be controlled by humidity control. (4.506.1)

Door Schedule

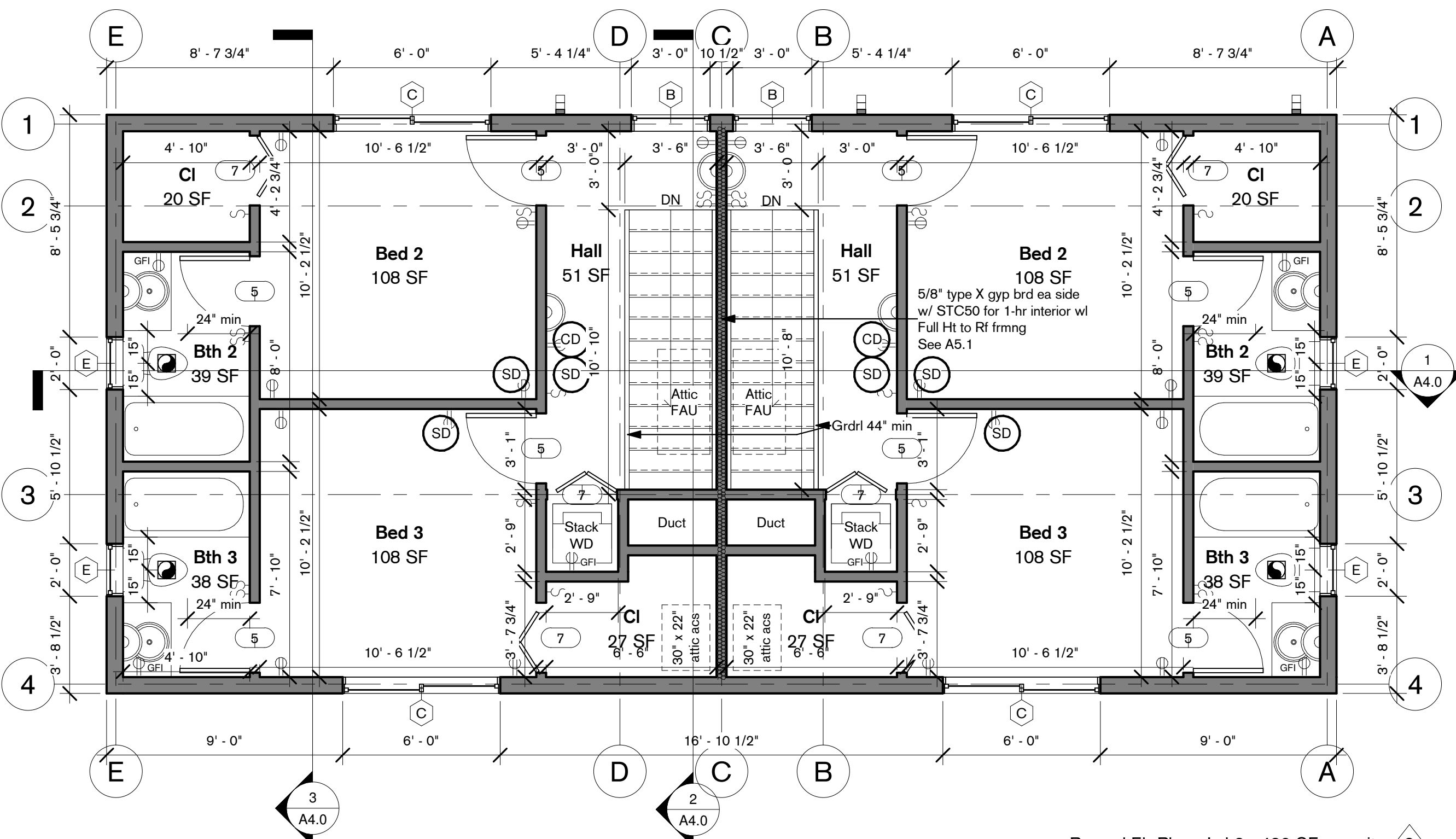
Mark	Width	Height	Type	Count
1	3'-0"	6'-8"	Single flush / solid / temp gl	2
2	2'-8"	6'-8"	Single flush / solid / 20-min	2
3	16'-0"	7'-0"	Garage overhead / insul	2
4	3'-0"	6'-8"	Single flush / solid / panic hrdwr	2
5	2'-8"	6'-8"	Single flush / hollow	12
6	2'-0"	6'-8"	2-pane bifold	2
7	2'-8"	6'-8"	2-pane bifold	6
8	2'-0"	6'-8"	Single flush / hollow / vent	2

Window Schedule

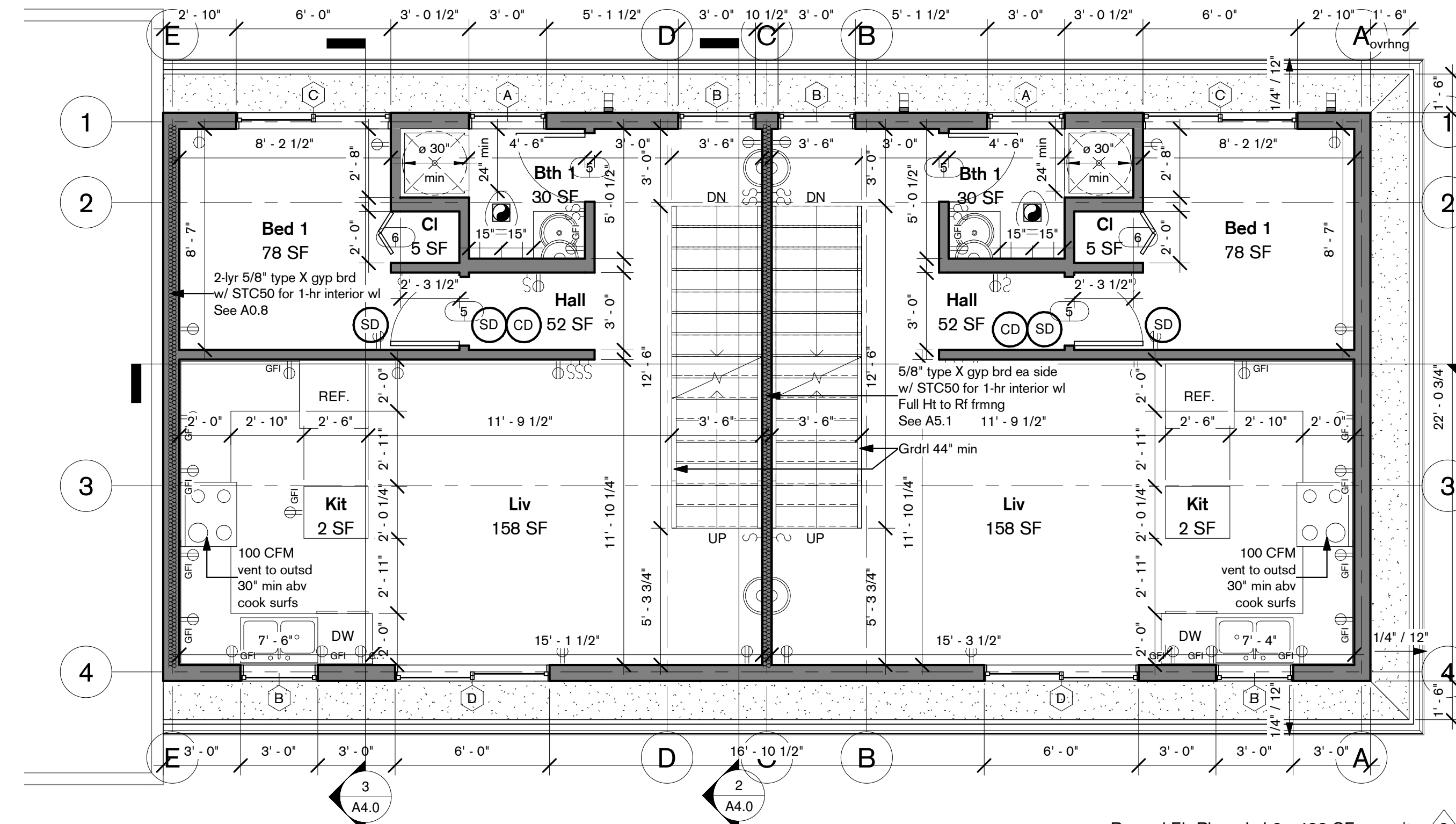
Mark	Width	Height	Type	Material	SHGC	U-Factor	Count
A	3'-0"	3'-0"	Csmtnt / temp	Vin	See T24	See T24	4
B	3'-0"	3'-0"	Csmtnt	Vin	See T24	See T24	6
C	6'-0"	3'-0"	Slidr	Vin	See T24	See T24	6
D	6'-0"	6'-0"	Slidr	Vin	See T24	See T24	2
E	2'-0"	2'-0"	Csmtnt / temp	Vin	See T24	See T24	4



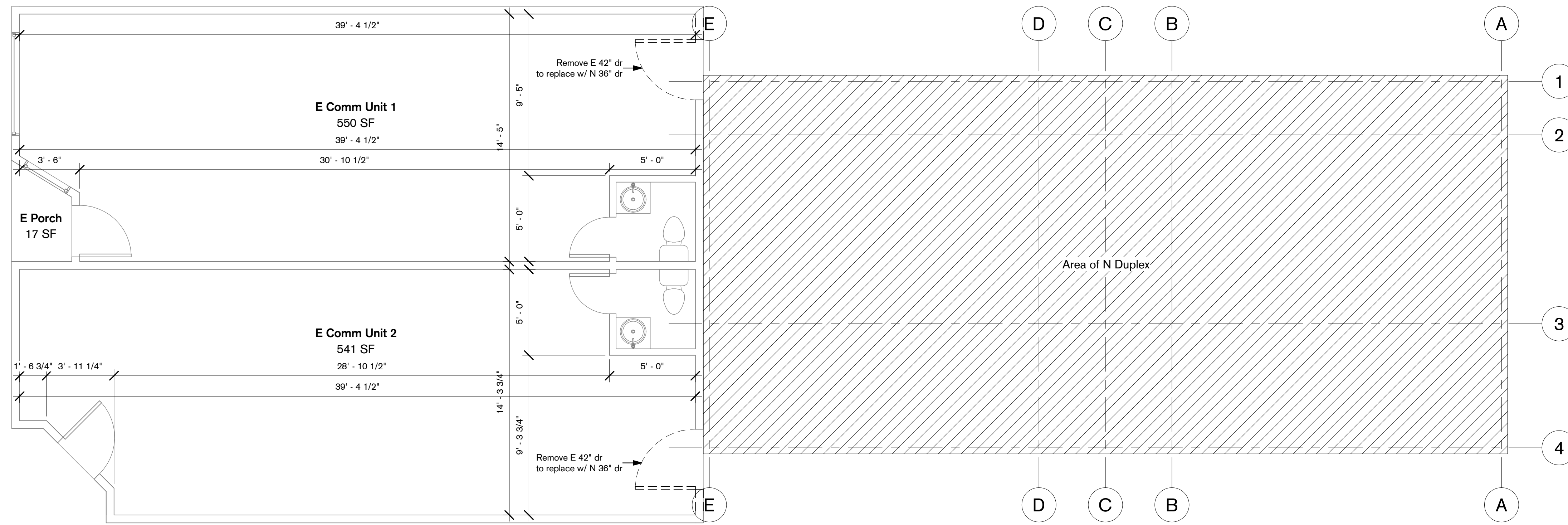
Propsd Fir Plan - Lvl 1 - 36 SF ea unit
Scale 1/4" = 1'-0"



Propsd Fir Plan - Lvl 3 - 439 SF ea unit
Scale 1/4" = 1'-0"

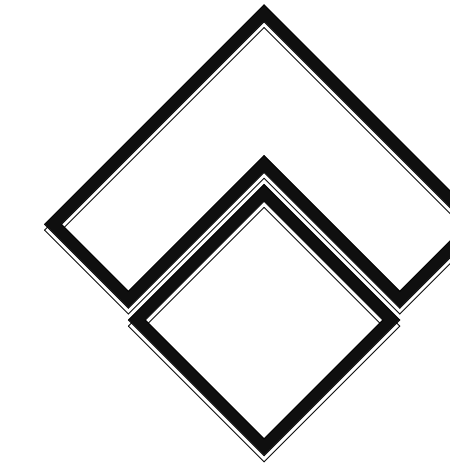


Propsd Fir Plan - Lvl 2 - 433 SF ea unit
Scale 1/4" = 1'-0"



Demo Plan - E Commercial 1
Scale 1/4" = 1'-0"

Wall Legend	
	E wll
	Demo wll / item



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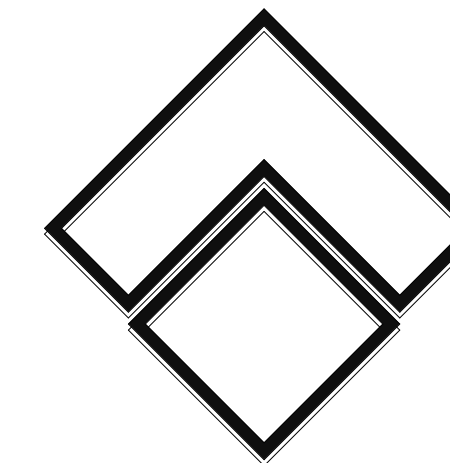
Demo Plan

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A2.2

Scale 1/4" = 1'-0"



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Proposed Elec Layouts

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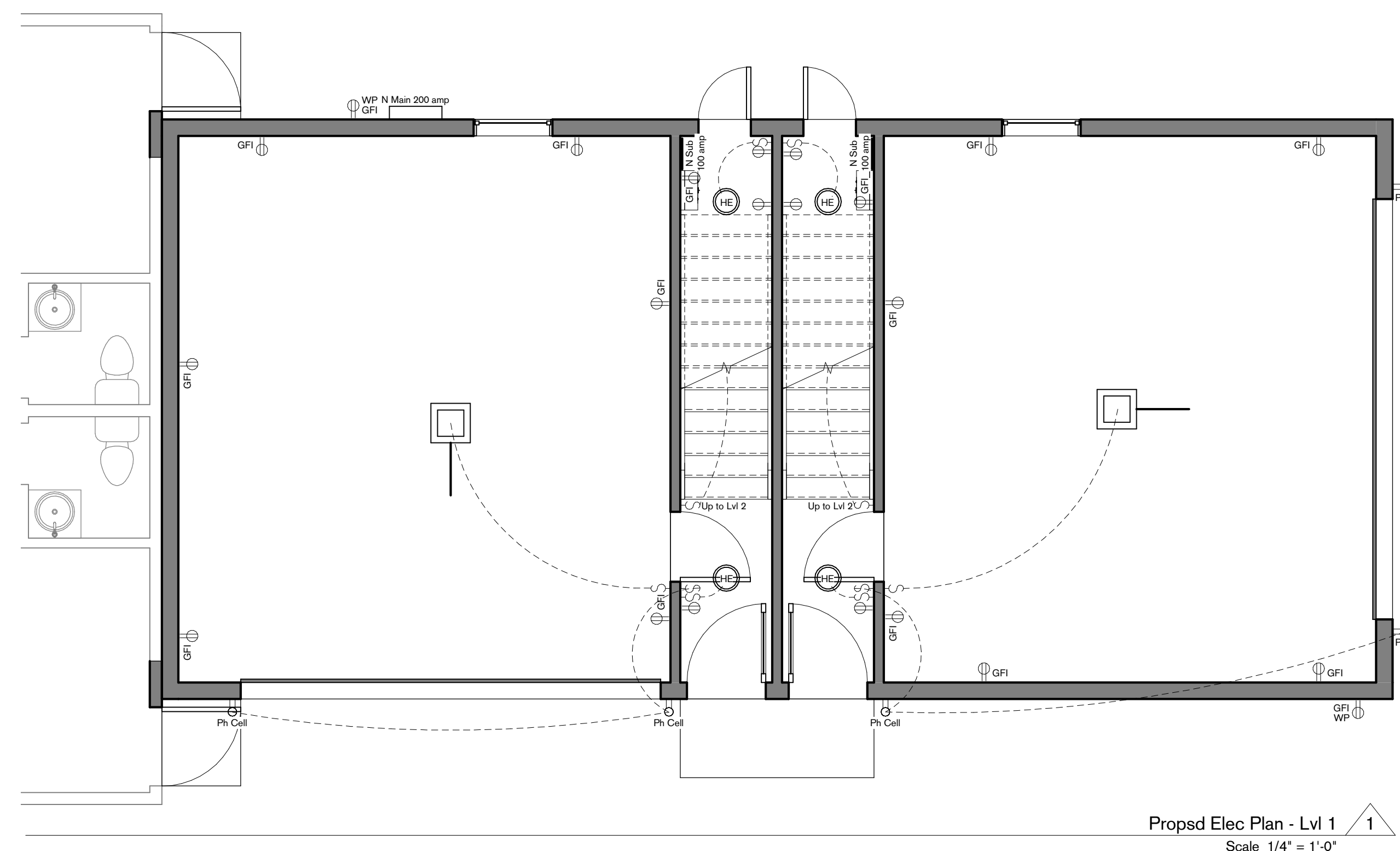
Date 04.02.2020

A2.3

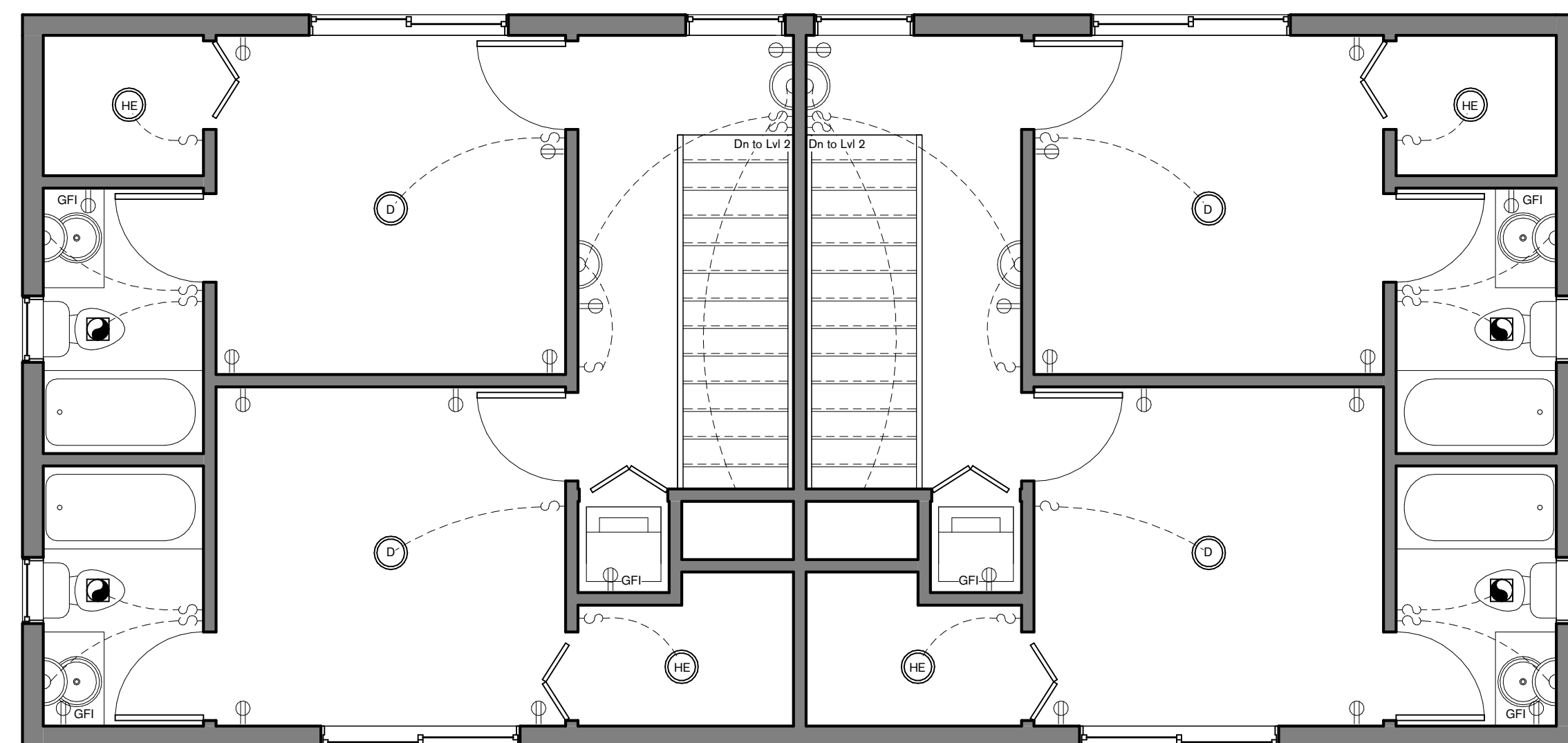
Scale 1/4" = 1'-0"

Electrical Legend
All luminaries shall be high efficacy

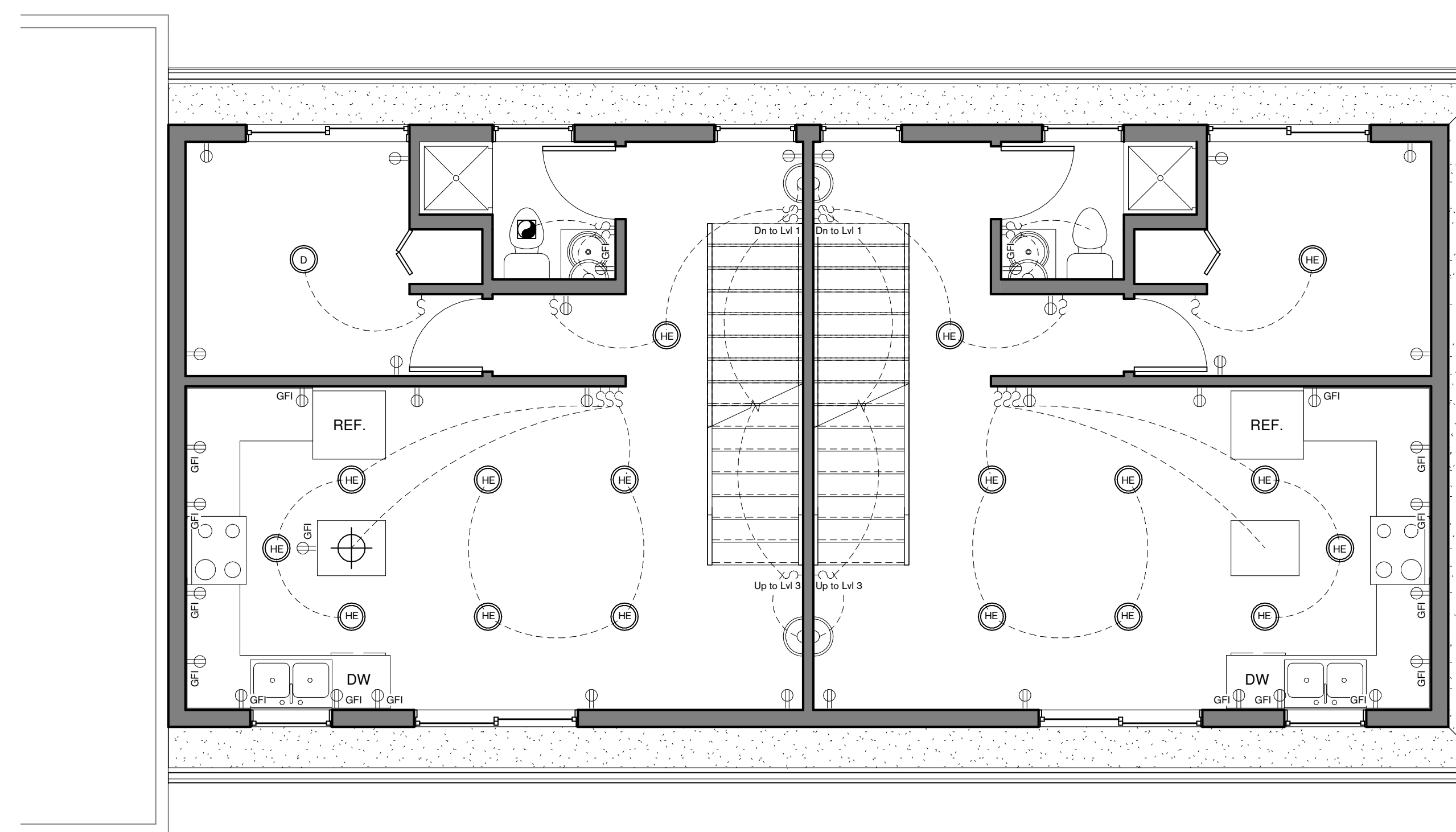
- Recessed downlight, dimmer switch, shall be sealed type
- Recessed downlight, shall be sealed type
- Wall mounted light fixture w/ photocontrol / motion sensor
- Pendant light fixture
- Wall mounted light fixture sconce light
- Garage opener w/ light
- Duplex outlet w/ ground fault interrupter
- Duplex outlet w/ ground fault interrupter Water-proof
- Duplex outlet, arc-fault interrupter
- Exhaust fan 50 CFM, shall be "Energy Star" compliant, and ducted to terminate to the outside of the building. Fans not functioning as a component of the whole house ventilation, must be controlled by humidity control. (4.506.1)
- Electric switch



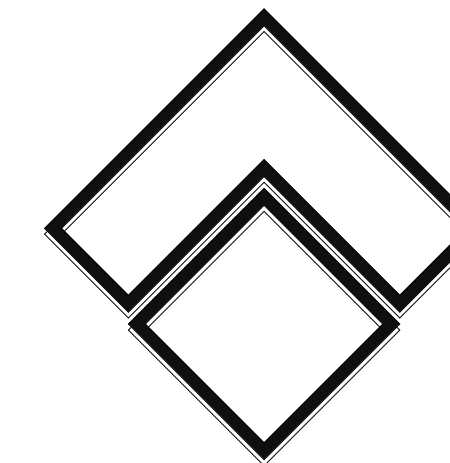
Propsd Elec Plan - Lvl 1
Scale 1/4" = 1'-0"



Propsd Elec Plan - Lvl 3
Scale 1/4" = 1'-0"



Propsd Elec Plan - Lvl 2
Scale 1/4" = 1'-0"



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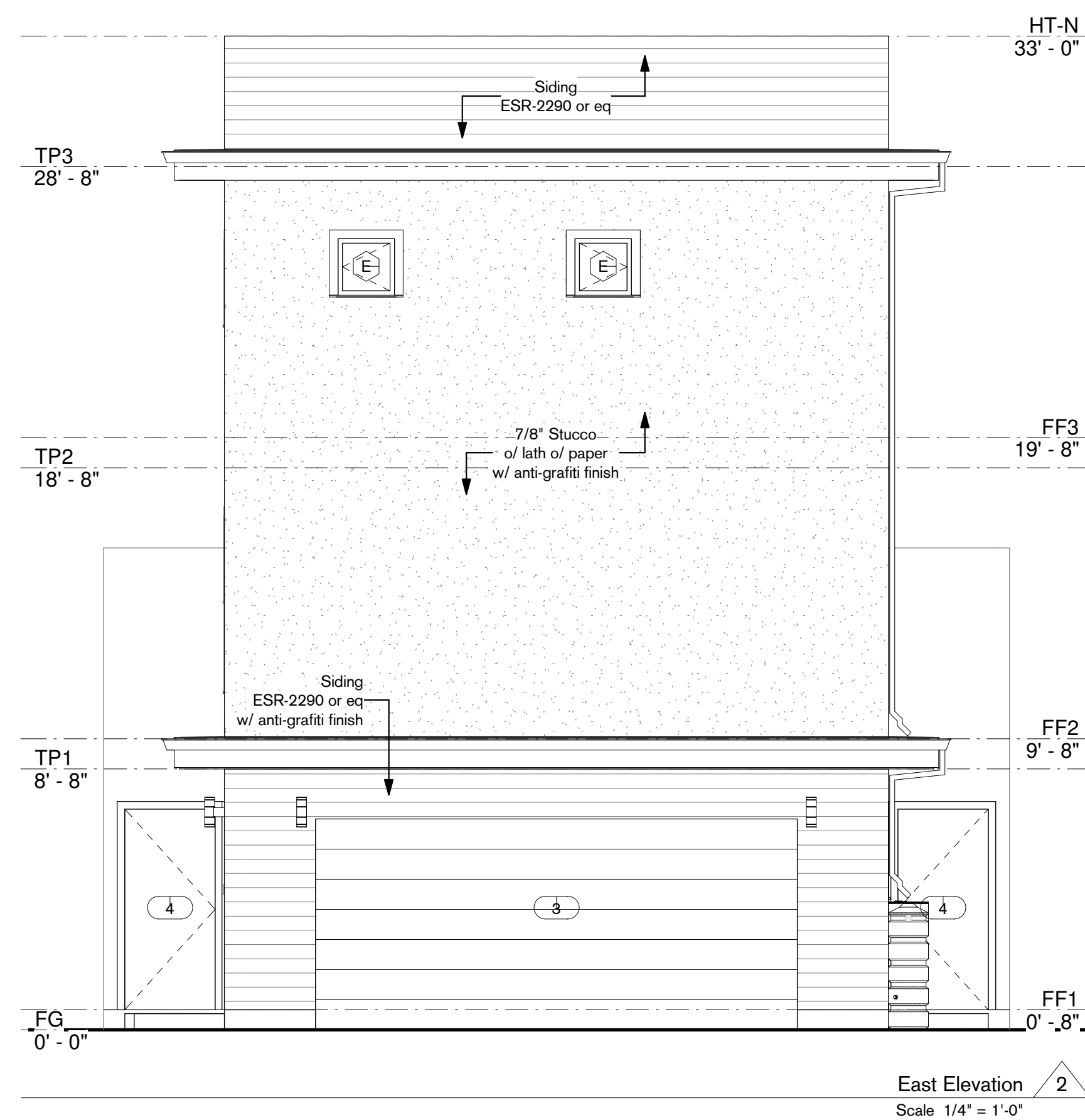
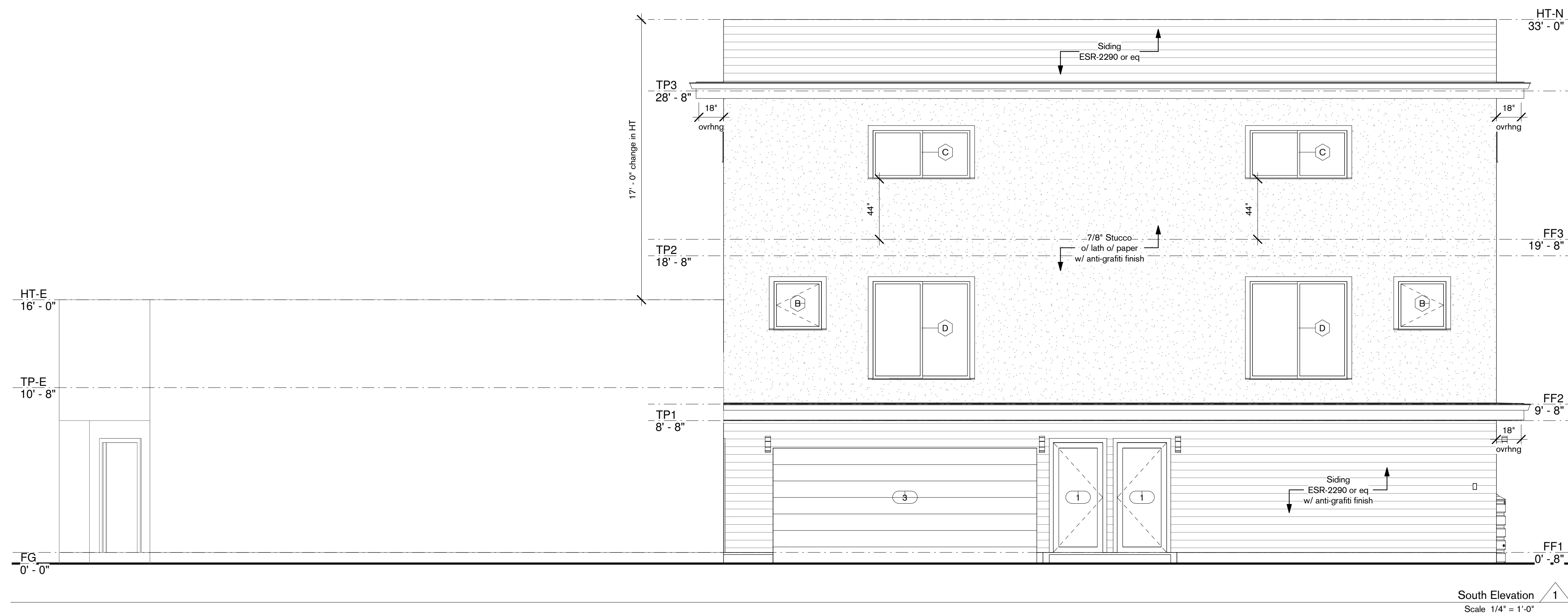
Elevations

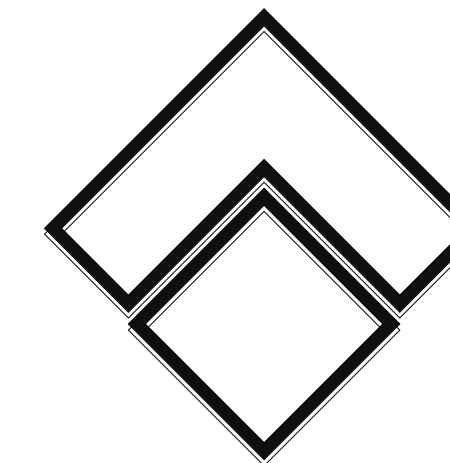
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A3.0

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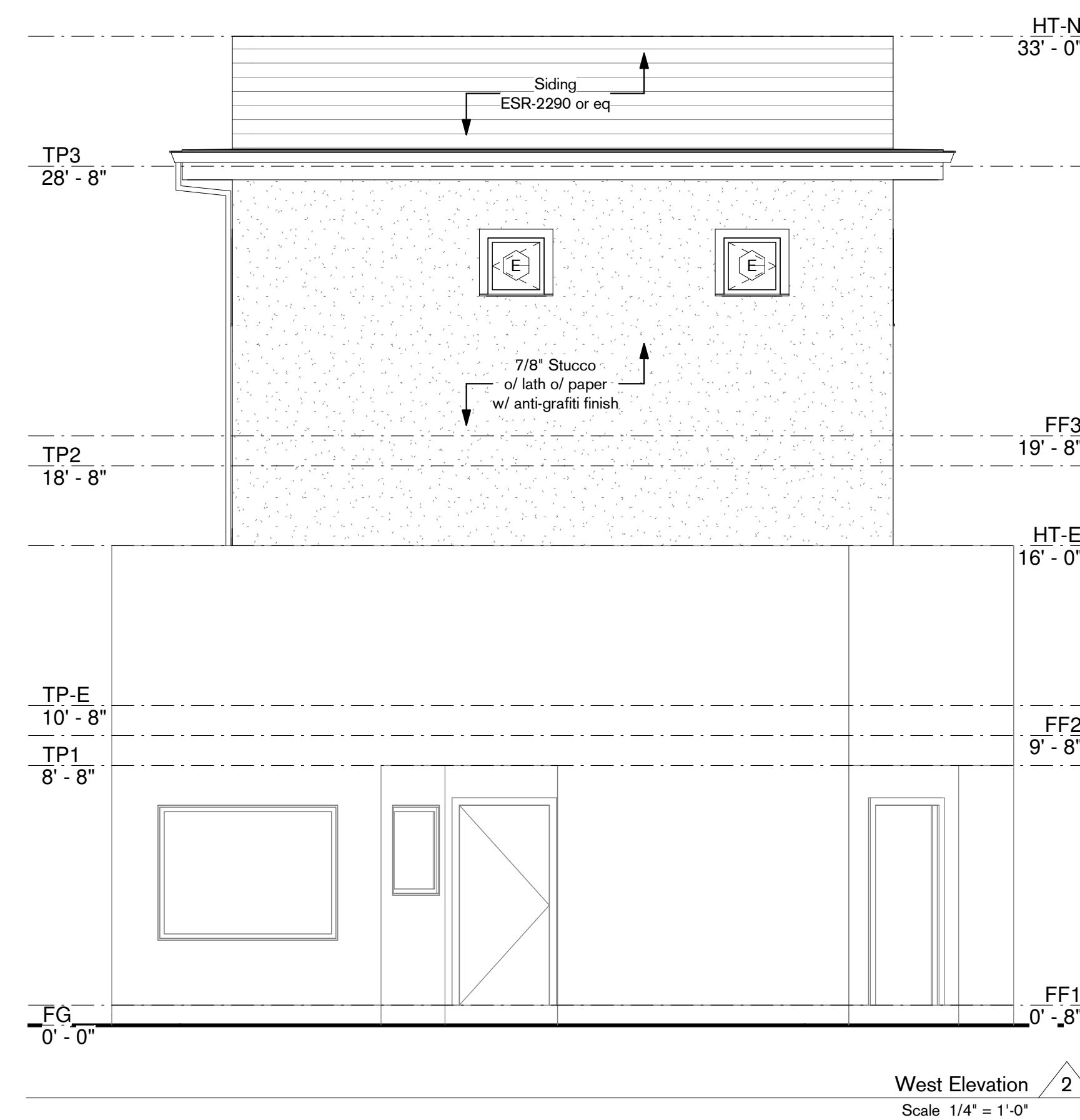
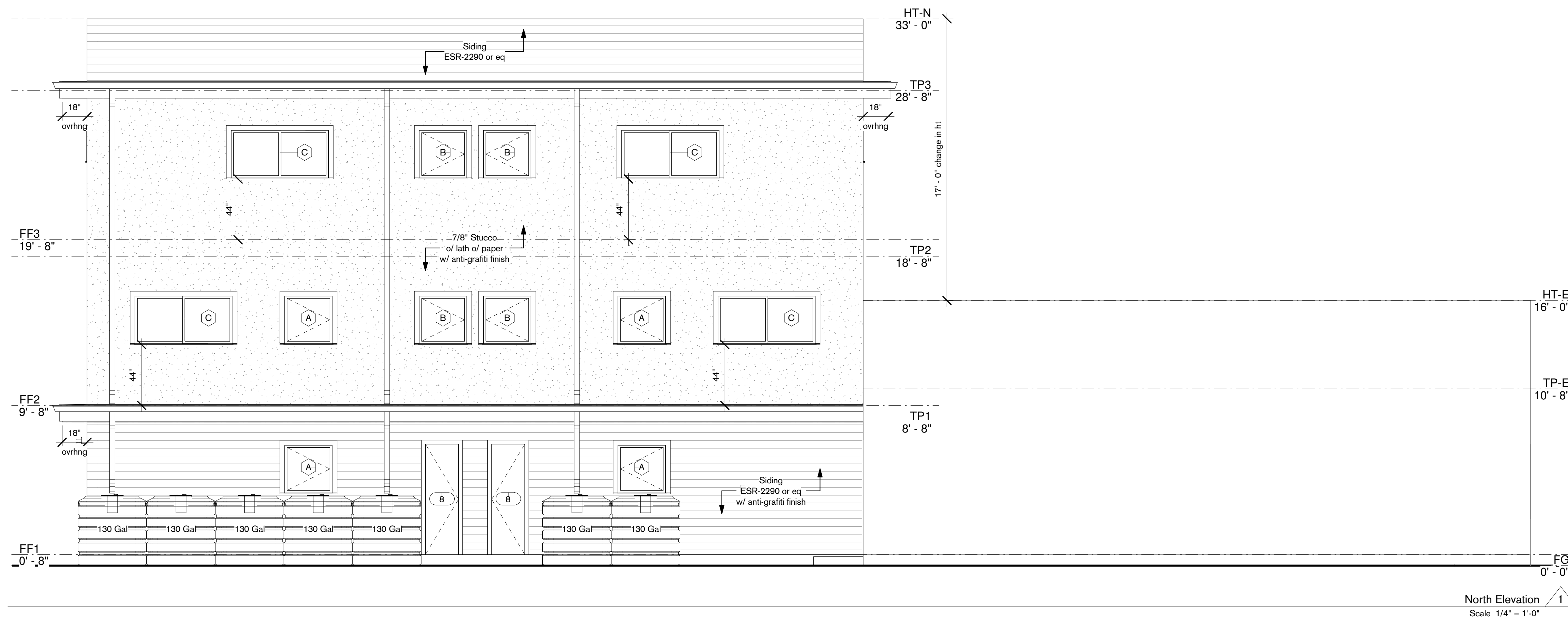
Elevations

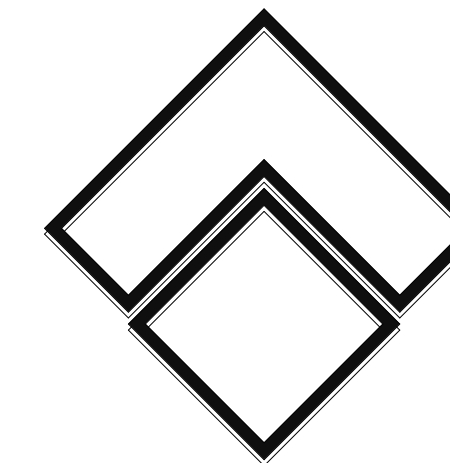
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A3.1

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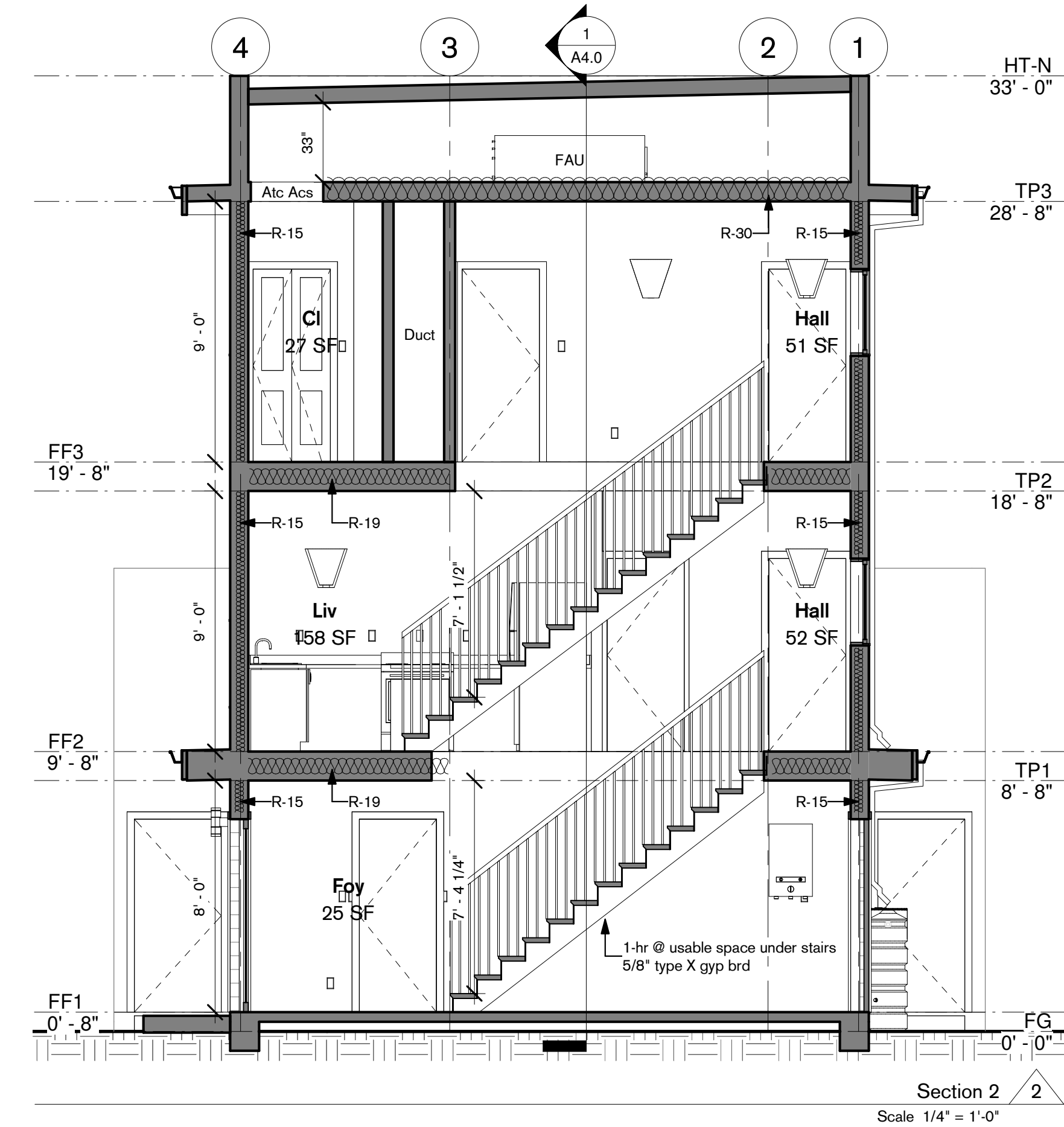
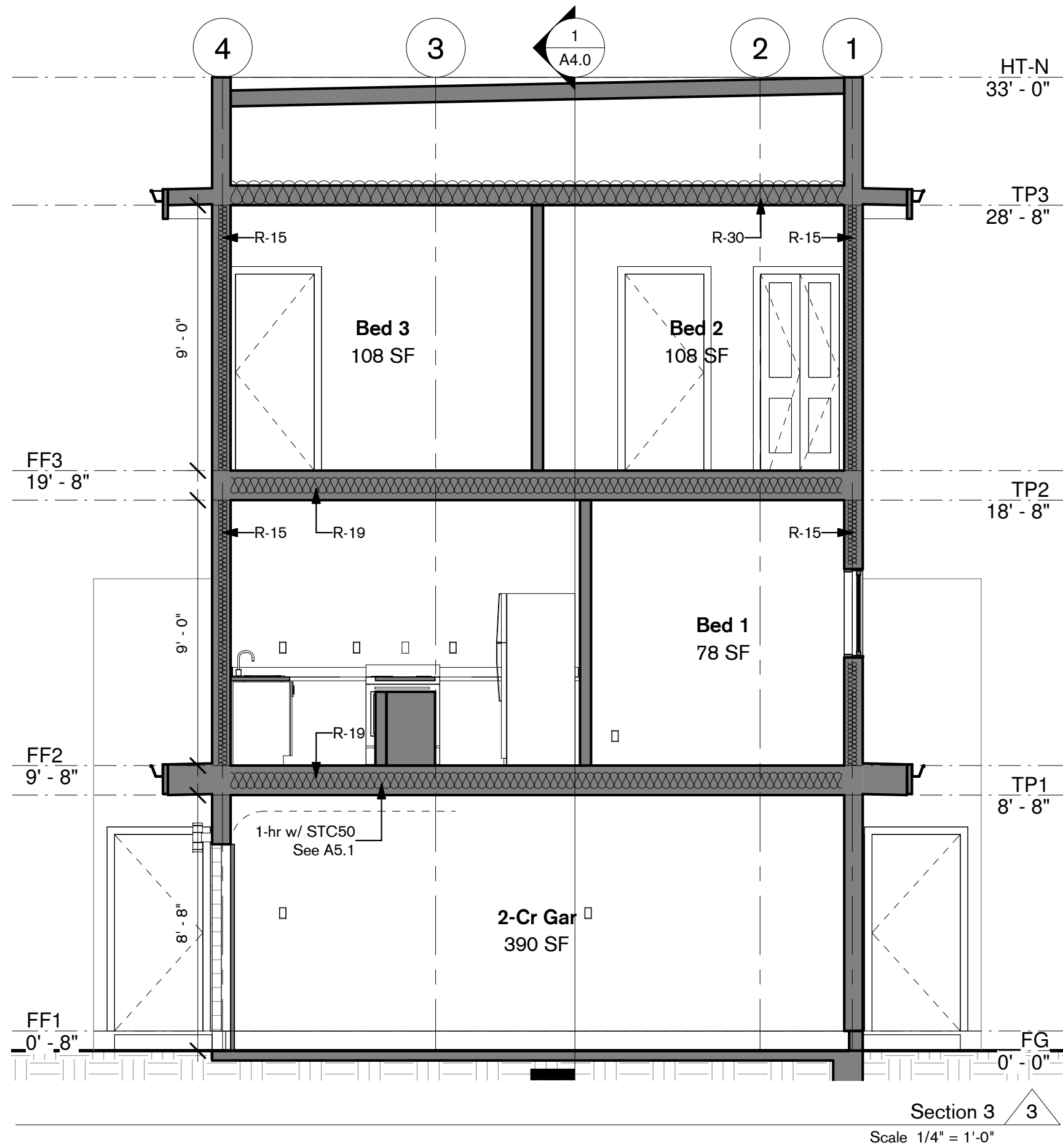
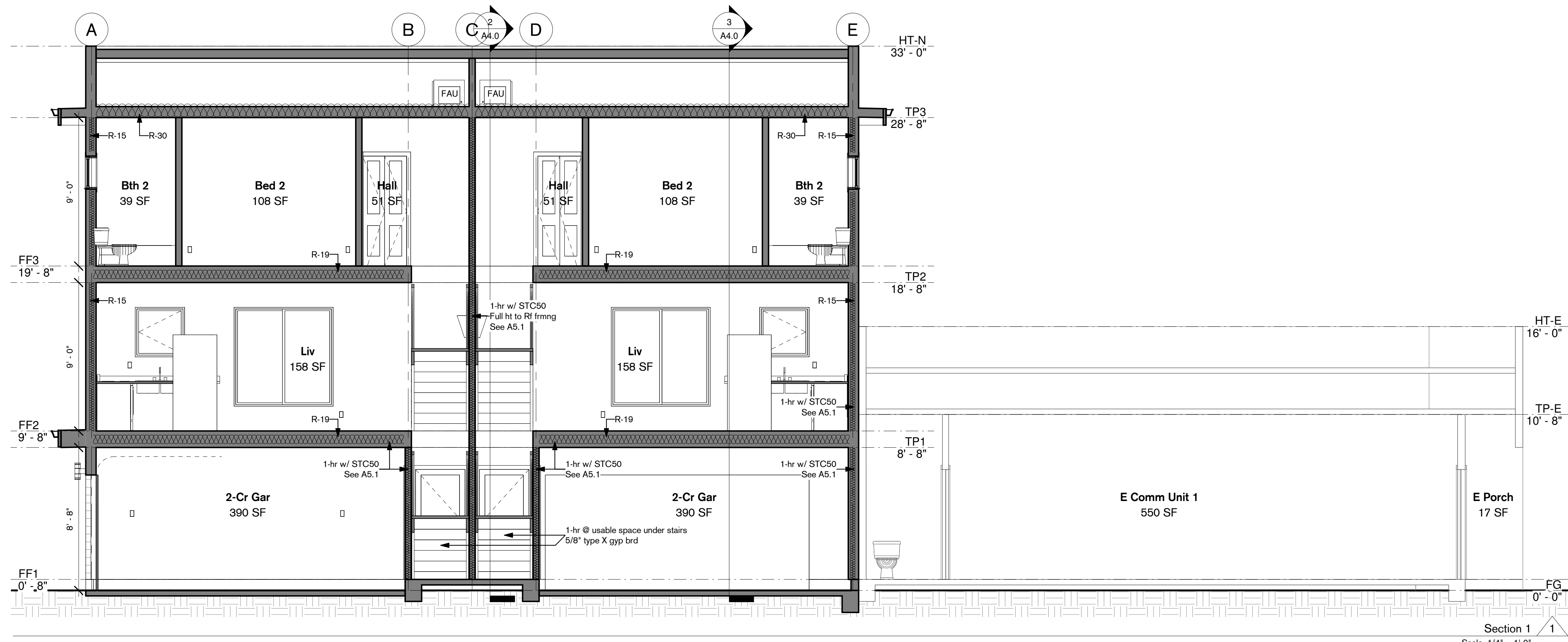
Sections

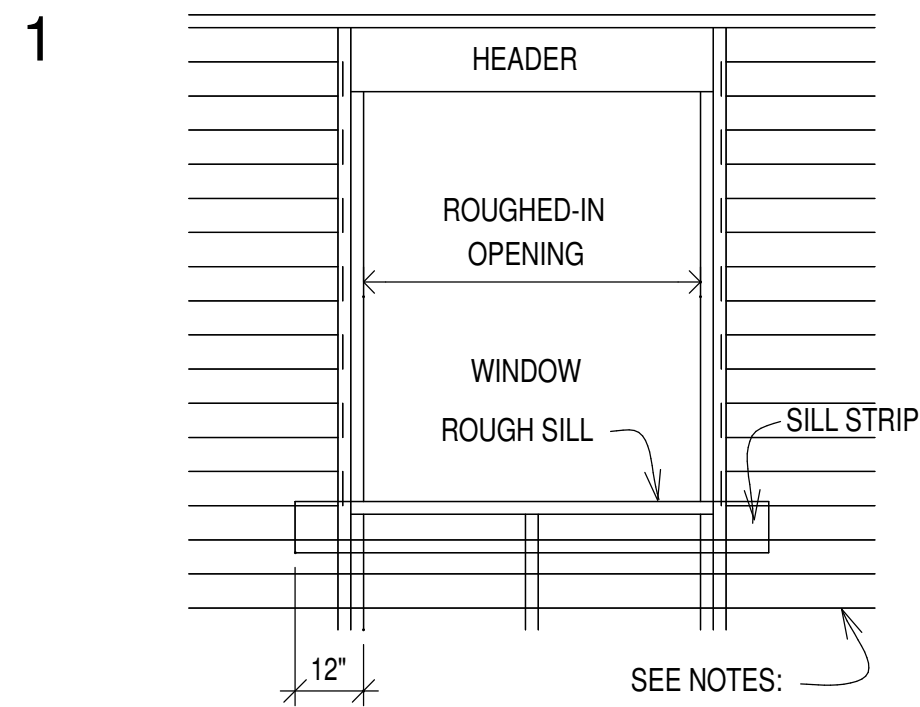
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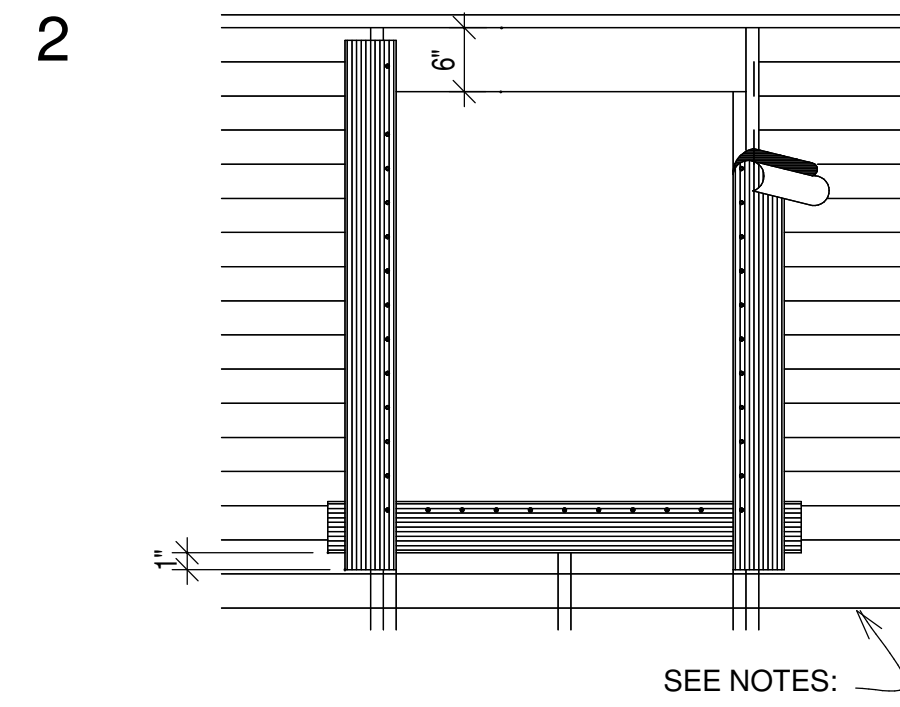
A4.0

Scale 1/4" = 1'-0"

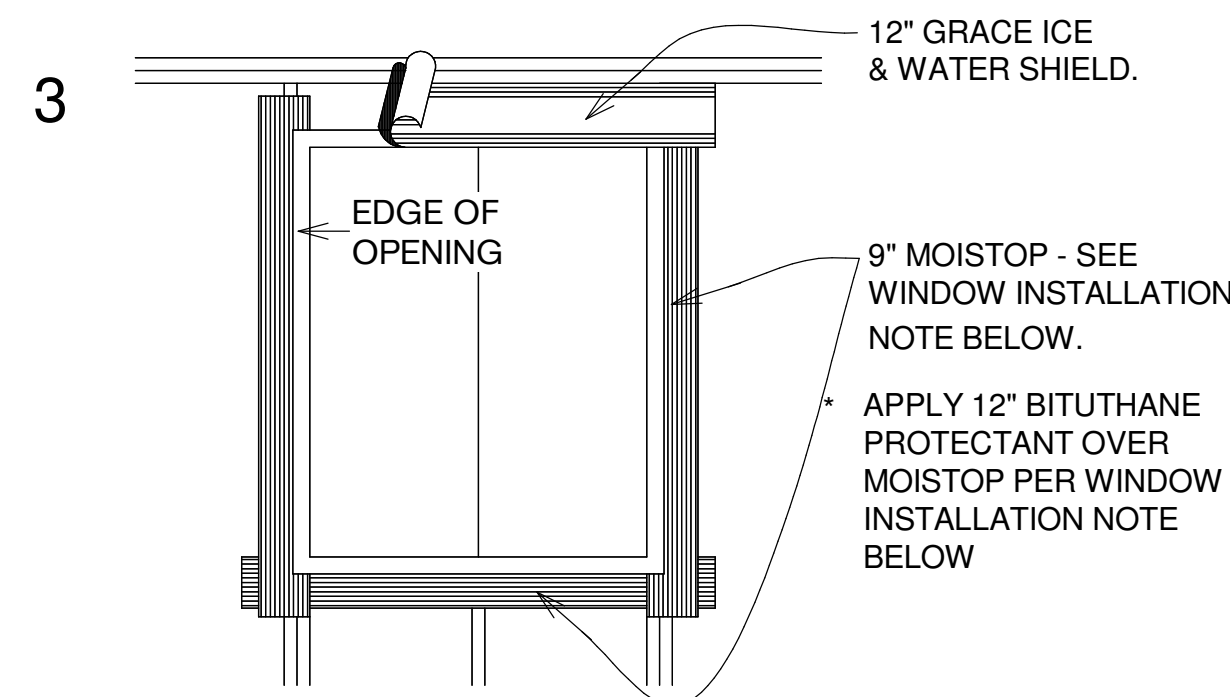




ATTACH A SILL STRIP OF MOISTOP FLASHING MATERIAL AT LEAST 12" WIDE WITH THE TOP EDGE EVEN WITH THE TOP EDGE OF THE ROUGH SILL. EXTEND SILL STRIP AT LEAST 12" BEYOND THE EDGE OF THE ROUGH OPENING FOR WINDOW. ATTACH FLASHING WITH GALVANIZED ROOFING NAILS OR RUST RESISTANT STAPLES.



AFTER SILL STRIP IS IN PLACE ATTACH JAMB STRIPS (SIDE OF OPENING) AT LEAST 9" WIDE WITH INSIDE EDGE OF FLASHING FLUSH WITH EDGE OF WINDOW OPENING. START JAMB STRIPS 1" BELOW THE SILL STRIP AND EXTEND JAMB STRIPS 6" ABOVE THE LOWER EDGE OF THE HEADER (TOP OF WINDOW OPENING).



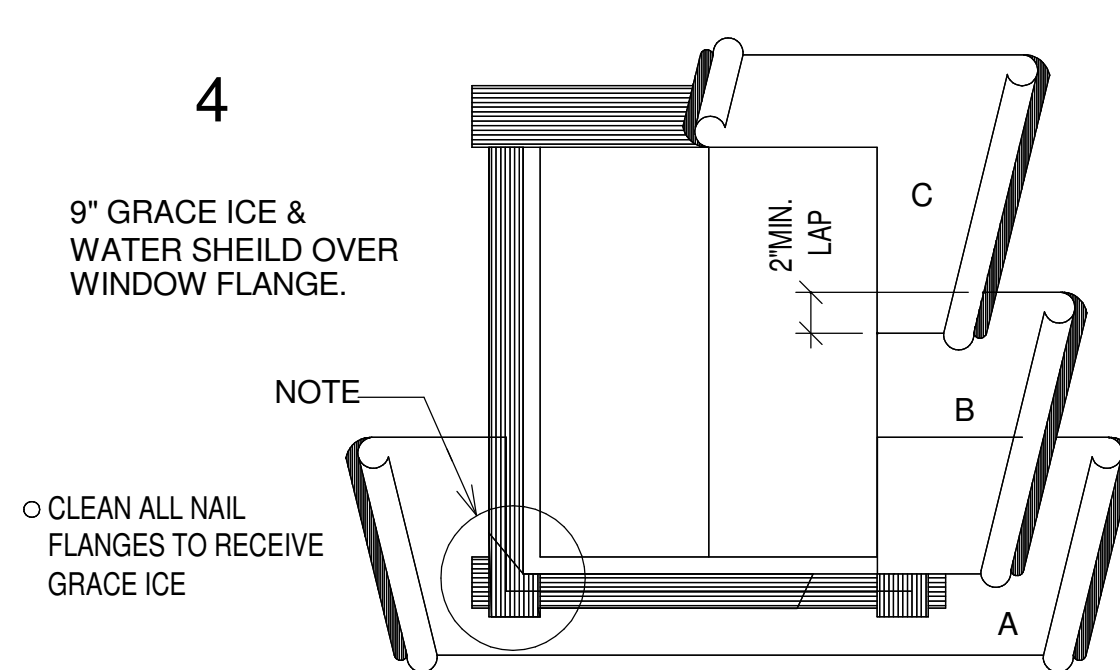
APPLY A CONTINUOUS (TOP 900 BEAD OF BUTYL RUBBER) SEALANT TO THE BACK SURFACES OF THE WINDOW FLANGE. THEN PLACE THE WINDOW INTO THE ROUGH OPENING WITH FLANGES OVER THE INSTALLED FLASHING STRIPS. AFTER WINDOW IS PLACED, CAULK ALL VOIDS VISIBLE @ TOP OF WINDOW FLANGE EDGE AND DOWN SIDES 6"

NOTES: SECTION 1402.2, UNIFORM BUILDING CODE CALLS FOR FLASHING OF ALL EXTERIOR OPENINGS EXPOSED TO WEATHER TO MAKE THEM WEATHERPROOF. SINCE U.B.C. DOES NOT OUTLINE PROCEDURES FOR WINDOW FLASHING, TECHNIQUES SHOWN HERE ARE RECOMMENDED. USE "MOISTOP" FLASHING BY FORTIFIBER CORP. OR EQUAL WHENEVER POSSIBLE FOR FLASHING MATERIAL. CAULK BACK OF WINDOW FRAMES BEFORE SETTING. USE USE WINDOWS THAT ARE WATERTIGHT.

26 GA. G.I. FLASHING REQUIRED AS SHOWN IN OTHER WINDOW DETAILS TO BE INSTALLED BY SHEET METAL CONTRACTOR.

NOT TO SCALE

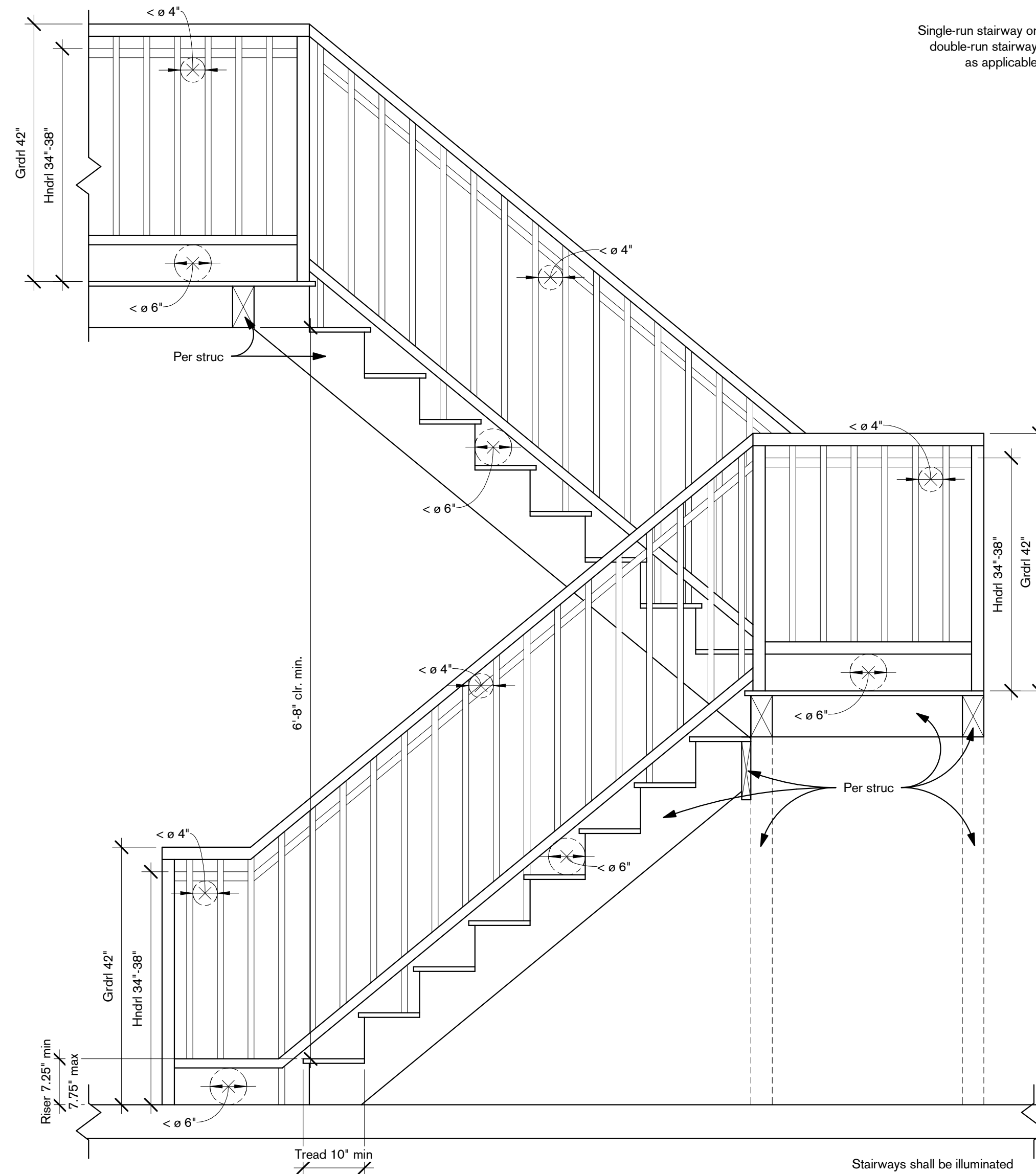
Window Flashing 2
Scale 3/8" = 1'-0"



NOTE: ○ CLEAN ALL NAIL FLANGES TO RECEIVE GRACE ICE ○ REPEAT STEPS 1 & 2 SIMILAR WITH A 9" WIDE LAYER OF GRACE ICE & WATER SHIELD OVER WINDOW FLANGE, 4" SIDES GRACE ICE & WATER SHIELD MUST BE SECURELY SEALED TO NAIL FLANGE ○ STARTING AT THE BOTTOM OF THE WALL (SOLE PLATE), LAY WATER-RESISTANT PAPER UNDER THE SILL STRIP. CUT ANY EXCESS WATER-RESISTANT PAPER THAT MAY EXTEND ABOVE THE SILL FLANGE ON EACH SIDE OF THE OPENING. (SHOWN IN DIAGRAM AS SHORT DASHED LINES). INSTALL SUCCEEDING COURSES OF WATER-RESISTANT PAPER (B, C, ETC.) OVER JAMB AND HEAD FLANGES IN SHINGLE-BOARD FASHION.

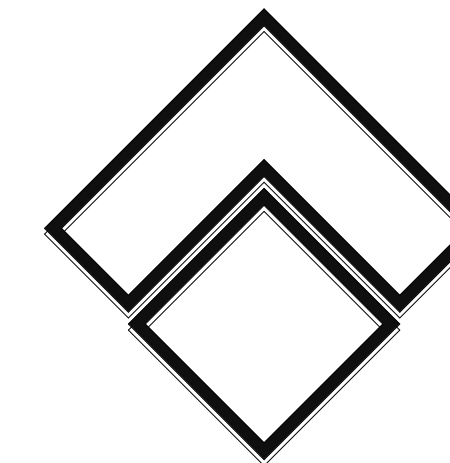
WINDOW INSTALLATION:

WHITE VINYL FRAME DUAL PANE WINDOWS PER PLAN AND PER TITLE 24 REQUIREMENTS. GRIDS PER PLAN AND ELEVATIONS. ALL WINDOWS INSTALLED BY FRAMER WITH 1/4" BEAD OF TOP 900 OR SCHNEE MOOREHEAD ADHESIVE AND 9" BITUTHANE OVER TOP OF NAILING FIN AT SILLS AND JAMBS, 12" AT HEAD.



Single-run stairway or double-run stairway as applicable

Interior Stairs 1
Scale 3/4" = 1'-0"



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A5.0

Scale As indicated

SOUND-RATED PARTITIONS AND FLOOR-CEILING CONSTRUCTION

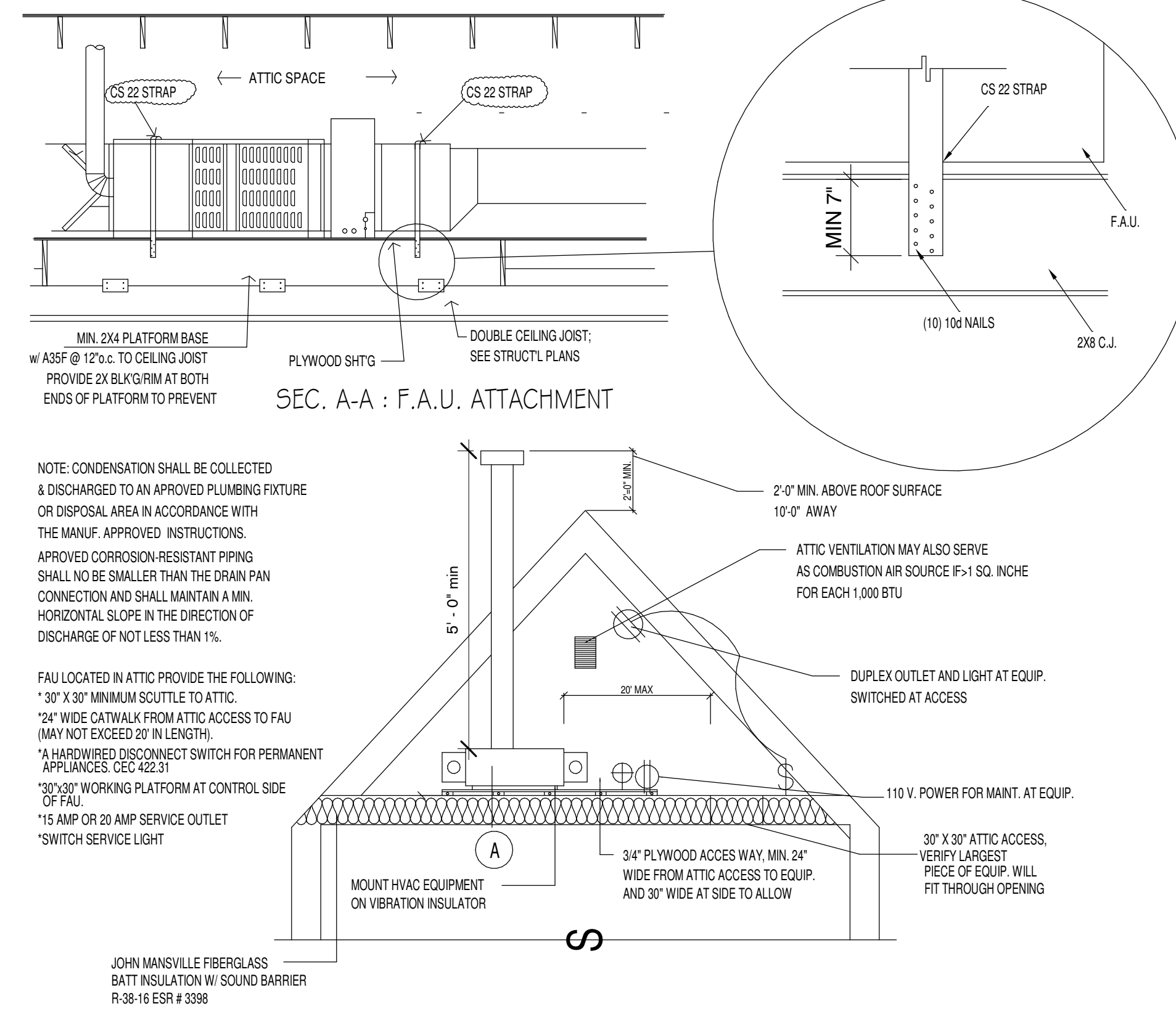
In accordance with Section 1207.9.1 and Section 1207.10 of the Los Angeles Building Code (LABC), walls and floor ceiling assemblies separating dwelling units or guest rooms from each other and from public or service areas (such as interior corridors, garages, and mechanical spaces) shall provide airborne sound insulation for walls, and both airborne and impact sound insulation for floor-ceiling assemblies.

Partitions and floor-ceiling assemblies constructed in accordance with the diagrams shown herein are considered to have Sound Transmission Class (STC) ratings and Impact Insulation Class (IIC) ratings of 50 as shown. They may be used to meet the acoustically rated construction requirements stipulated in Sections 1207.10 and 1207.11 of the LABC. Other assemblies may be used provided that they comply with the requirements of Section 1207.12 of the LABC. Laboratory and field tests to establish general approvals require an STC rating of 50 for walls and floors and an IIC rating of 50 for floors. The specified rating of 45 for field-tested assemblies (noted in Section 1207.10 of the LABC) is to be used for acceptance of individual jobs only.

The following notes shall be provided on the plans or in their contents delineated as details on the plans.

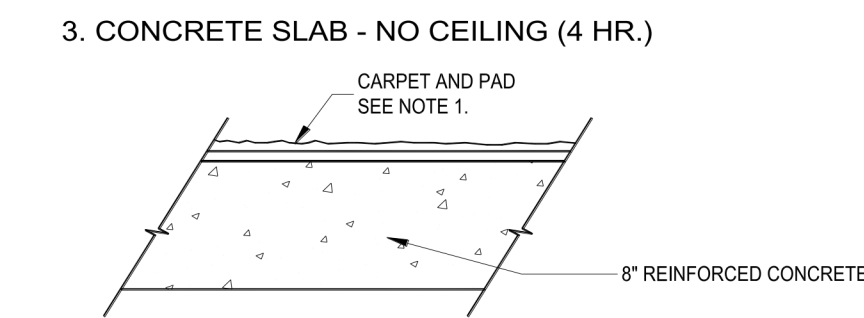
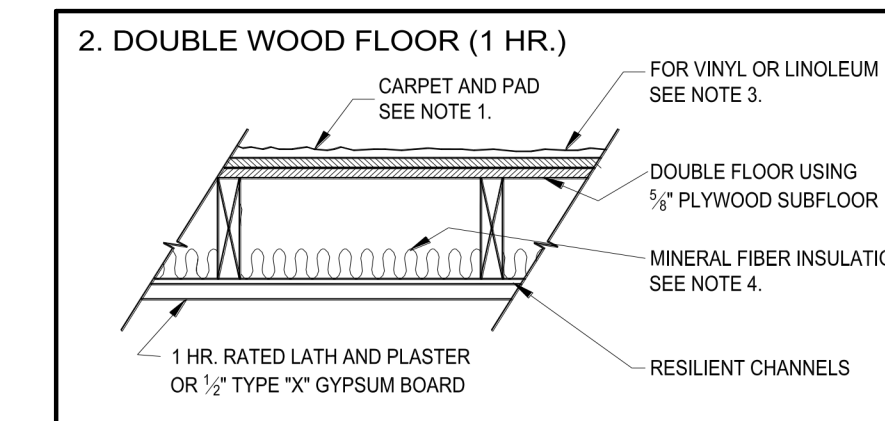
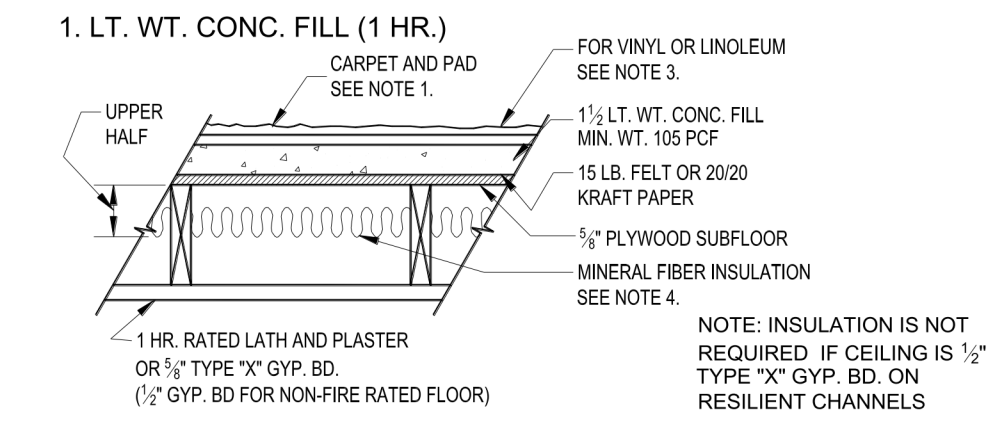
1. All penetrations into sound rated partitions or floor-ceiling assemblies shall be sealed, lined, or insulated with an approved permanent resilient sealant.
2. All rigid conduits, ducts, plumbing pipes, and appliance vents located in sound rated assemblies shall be isolated from the building construction by means of resilient sleeves, mounts, or a minimum 1/4" thick approved resilient material.
3. An approved permanent and resilient acoustical sealant shall be provided along the joint between the floor and the separation walls.
4. Metal ventilating and conditioned air ducts located in sound rated assemblies shall be lined (Exception: Ducts serving only exit ways, kitchen cooking facilities, and bathrooms need not be lined).
5. Mineral fiber insulation shall be installed in joist spaces whenever a plumbing, piping, or duct penetrates a floor-ceiling assembly or where such unit passes through the plane of the floor-ceiling assembly from within a wall. The insulation shall be installed to a point 12" beyond the pipe or duct. This requirement is not applicable to fire sprinkler pipe, gas line or electrical conduit.
6. Electrical outlet boxes in opposite faces of separation walls shall be separated horizontally by 24" and note that back and sides of boxes shall be sealed with 1/8" resilient sealant and backed by a minimum of 2" thick mineral fiber insulation.
7. No wall furnace shall be installed in sound rated partitions.
8. No electrical panel shall be installed in sound rated partitions.

As a covered entity under Title II of the Americans with Disabilities Act, the City of Los Angeles does not discriminate on the basis of disability and, upon request, will provide reasonable accommodation to ensure equal access to its programs, services and activities.



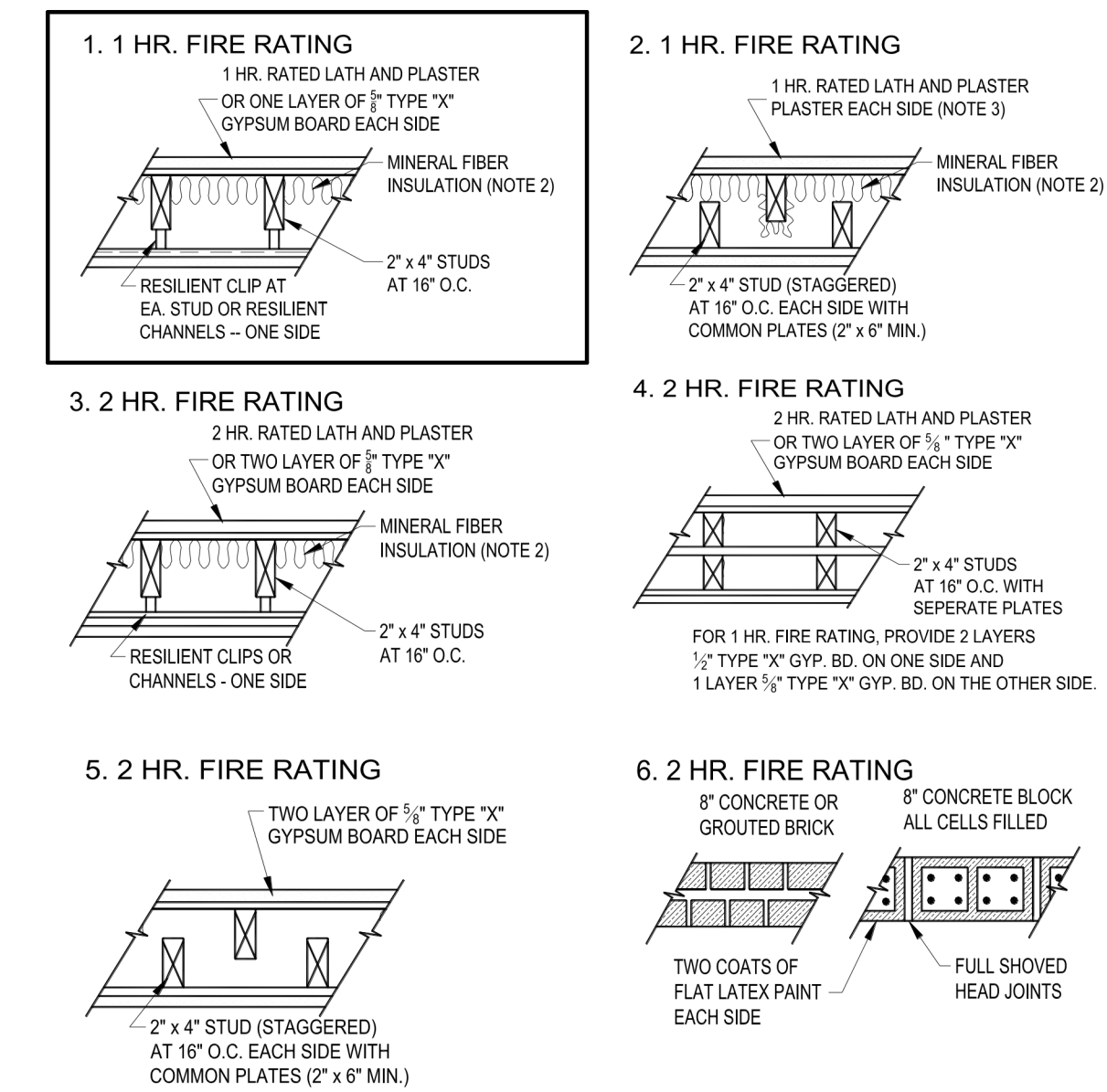
FAU in Atc
Scale 1/4" = 1'-0"

**STANDARD SOUND RATED FLOOR - CEILING ASSEMBLIES
STC 50 - IIC 50 FIRE RATING AS SHOWN**



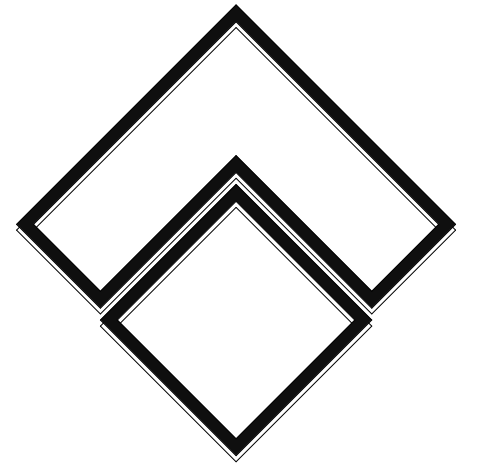
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**STANDARD SOUND RATED PARTITION ASEMBLIES
STC 50 - FIRE RATING AS SHOWN**



- GENERAL NOTES:**
1. The type and spacing of resilient channels and clips and the attachment of gypsum board or lath shall be as required for fire ratings.
 2. The mineral fiber insulation shall have a thermal resistance R value of 11 or greater as determined by Federal Specification RR-1-521B.
 3. No test is on file to justify an STC 50 with one 5/8" type 'X' gypsum board each side.

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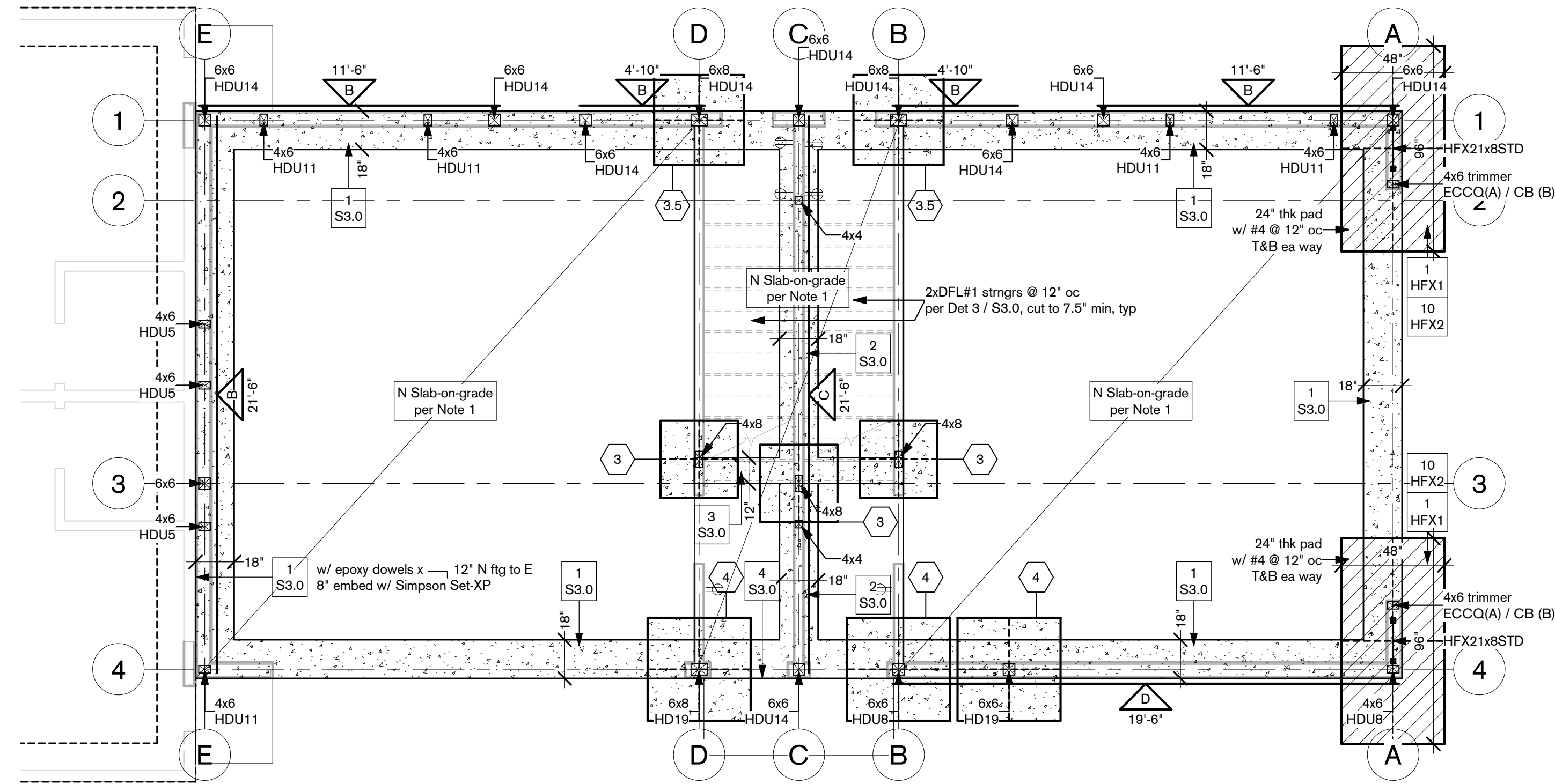
A5.1

Scale 1/4" = 1'-0"

FOUNDATION NOTES

1. CONCRETE SLAB-ON-GRADE 4" THICK WITH #4 @ 16" OC EACH WAY. SLAB SHALL BE OVER 10 MIL VAPOR BARRIER OVER 4" OF 1/2" GRAVEL. SLAB SHALL HAVE .5 MAX WATER-TO-CEMENT RATIO.
2. ALL HOLD-DOWNS AND ANCHOR BOLTS SHALL BE SECURED IN PLACE BY TEMPLATE PRIOR TO FOUNDATION INSPECTION AND STRUCTURAL OBSERVATION. HOLD-DOWNS ANCHOR NUTS SHALL BE RE-TIGHTENED JUST PRIOR TO COVERING. PLATE WASHERS ARE REQUIRED FOR ALL BOLTED HOLD-DOWNS.
3. FOOTING PSI SHALL BE AS SPECIFIED ON SHEET S4.0.
4. ALL GRADING AND FOUNDATION EXCAVATIONS SHALL BE OBSERVED & APPROVED BY THE PROJECT GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF REINFORCING STEEL.
5. ALL EXCAVATIONS SHALL BE APPROVED BY THE CITY BUILDING INSPECTOR.
6. POSTS WITHOUT SPECIFIED CONNECTORS SHALL BE ATTACHED TO TOP AND BOTTOM PLATES W/ "A35" ON 2 SIDES. (4 TOTAL PER POST). ALL BEAMS WITHOUT SPECIFIED CONNECTORS SHALL BE ATTACHED TO TOP PLATES W/ "A35" EACH SIDE.
7. WOOD FRAMING MEMBERS INCLUDING WOOD SHEATHING THAT REST ON EXTERIOR FOUNDATION WALLS AND ARE LESS THAN 8' FROM EXPOSED EARTH SHALL BE NATURALLY DURABLE AND PRESERVATIVE TREATED WOOD.
8. WHERE CONTINUOUS FOOTING INTERSECTS W/ PAD FOOTING, EXTEND CONTINUOUS FOOTING REINFORCING INTO PAD FOOTINGS PER LAP SPLICE SCHEDULE.
9. ALL MEMBERS SPECIFIED AS DRAG TO HAVE B.N.
10. FOOTING REINF. TO RUN CONT. THRU HARDY FRAME PAD FOOTINGS. PROVIDE ADD'L MAT OF #4 @ 16" o.c. EACH WAY @ BOTTOM IN HARDY FRAME PAD FOOTINGS.
11. A COPY OF THE GLENDALE RESEARCH REPORT AND/OR CONDITIONS OF LISTING SHALL BE MADE AVAILABLE AT THE JOB SITE.
12. HOLD-DOWN CONNECTOR BOLTS INTO WOOD FRAMING REQUIRE APPROVED PLATE WASHERS, AND HOLD-DOWNS SHALL BE FINGER TIGHT AND 1/2 WRENCH TURN JUST PRIOR TO COVERING THE WALL FRAMING. CONNECTOR BOLTS INTO WOOD FRAMING REQUIRE STEEL PLATE WASHERS ON THE POST ON THE OPPOSITE SIDE OF THE ANCHORAGE DEVICE. PLATE SIZE SHALL BE A MINIMUM OF 0.299 INCH BY 3 INCHES BY 3 INCHES.
13. REFER TO CURRENT SOILS INVESTIGATION REPORT FOR SOIL CONDITIONS AS APPLICABLE.

NOTIFY ENGINEER IF CONDITIONS ARE DIFFERENT THAN SHOWN ON THIS PLAN.



Foundation Plan 1
Scale 1/4" = 1'-0"

SYMBOL	DIAMETER	SPACING
A	5/8"	32" o.c.
B	5/8"	32" o.c.
C	5/8"	24" o.c.
D	5/8"	16" o.c.
BB	5/8"	16" o.c.
CC	5/8"	12" o.c.
DD	5/8"	10" o.c.

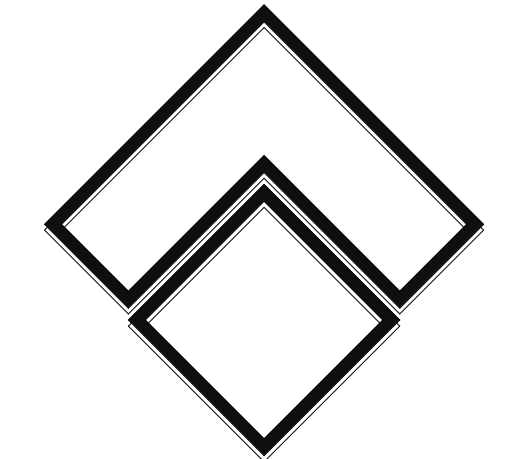
IN ADDITION TO SHEAR WALLS, 5/8" DIA @ 48" o.c. A.B. ARE REQ'D @ ALL EXTERIOR & BEARING WALLS W/ 7" MIN. CONC. EMBED. W/ 2 BOLTS MIN. PER PIECE, 5" MIN. & 12" MAX. FROM ENDS. SEE S4.0 AND SHEAR WALL SCHEDULE FOR ADDITIONAL REQUIREMENTS. MIN. PLATE WASHER SIZE FOR 5/8" DIA A.B. IS 3"x3"x.229"

SYMBOL	SIZE	THICKNESS	REINFORCING
2	2'-0" SQ.	18"	3#4 EA. WAY BOTT
2.5	2'-6" SQ.	18"	4#4 EA. WAY BOTT
3	3'-0" SQ.	18"	4#4 EA. WAY BOTT.
3.5	3'-6" SQ.	18"	5#4 EA. WAY BOTT.
4	4'-0" SQ.	18"	5#4 EA. WAY BOTT
5	5'-0" SQ.	18"	6#5 EA. WAY BOTT.
6	6'-0" SQ.	18"	8#5 EA. WAY T&B

BOTTOM OF PAD FOOTINGS @ SAME LEVEL AS STRIP FOOTINGS U.N.O. AND HAVE 18" MIN. EMBED. INTO BEARING MATERIAL AND 24" MIN EMBED BELOW LOWEST ADJACENT GRADE.

Symbol	Wall Legend
[Solid Line]	New std wall 2x4 @ 16" oc, UNO 2x6 @ 16" oc @ plmbg wls 2x6 @ 16" oc @ ext wls
[Dashed Line]	Existing stud wall 2x4 @ 16" oc uno
[Dotted Line]	Demo wall

Symbol	Foundation Legend
[Hatched Box]	Typ. @ Hardy Frame 24" min. thick pad ftg. W/ #4 @ 12" oc T&B ea. way. Hardy Frame bolt to extend to 3" clr. from bottom of ftg. w/ 5" sq. x 0.5" thick plate washer w/ dbl. nuts 3" clr. from bot.
[Dashed Line]	E ftg to remain
[Stippled Box]	N ftg per 1 & 2, S3.0
[Dotted Box]	N pad ftg per schedule on S1.0
[Arrow]	XxX HDUX Post w/ holdown per plan (LARR# 25828)



Expansion

Георгий Шпак | Проектировщик
415.858.4218 | 1egorshpak@gmail.com



Owner:

Mike Miller

Project:

New 3-story Duplex
6032 S Vermont Ave
Los Angeles, CA 90044

Revisions

No.	Description	Date

Foundation Plan

Drawn by Paul Boranian, Egor Shpak

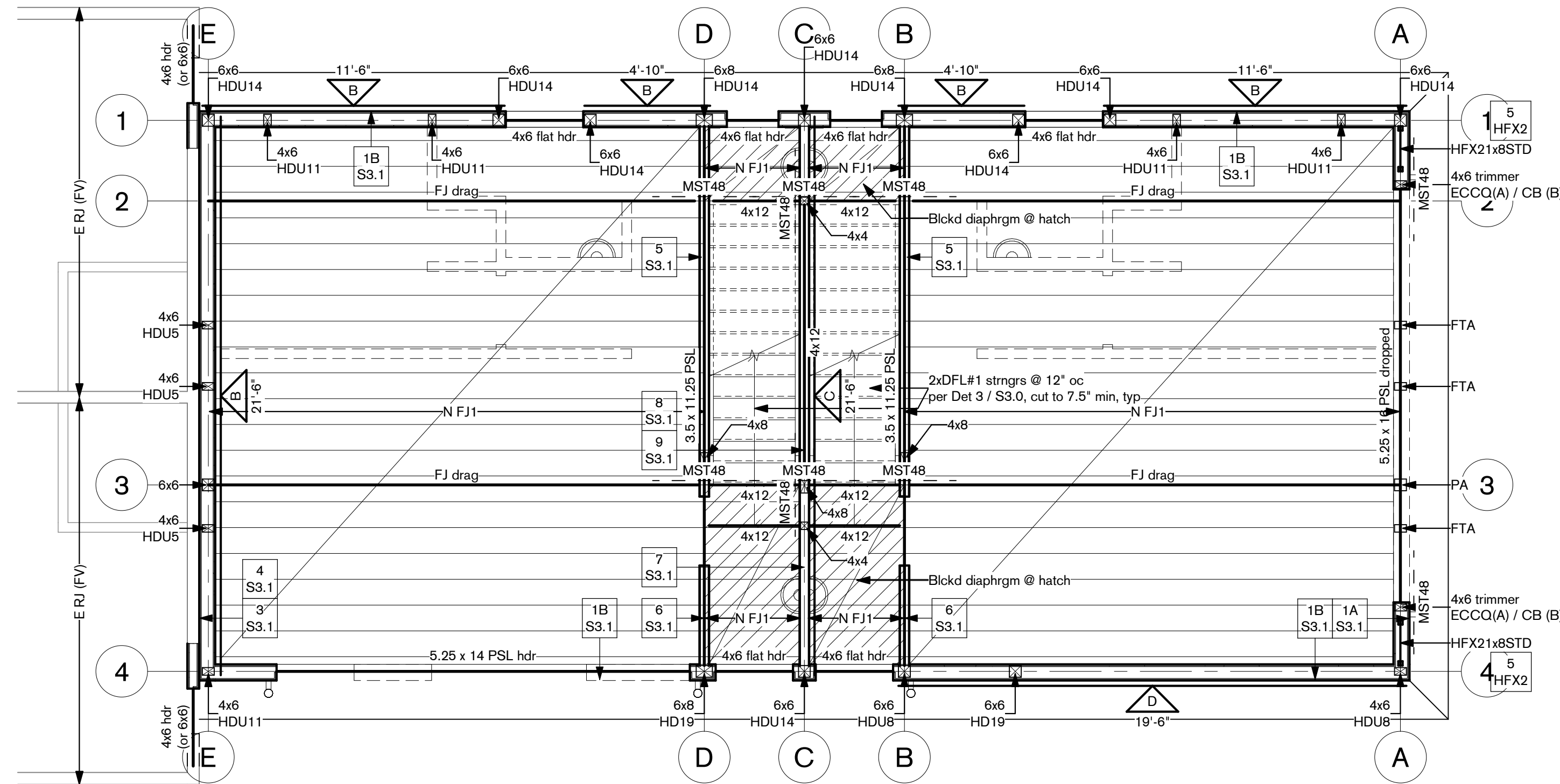
Date 04.02.2020

S1.0

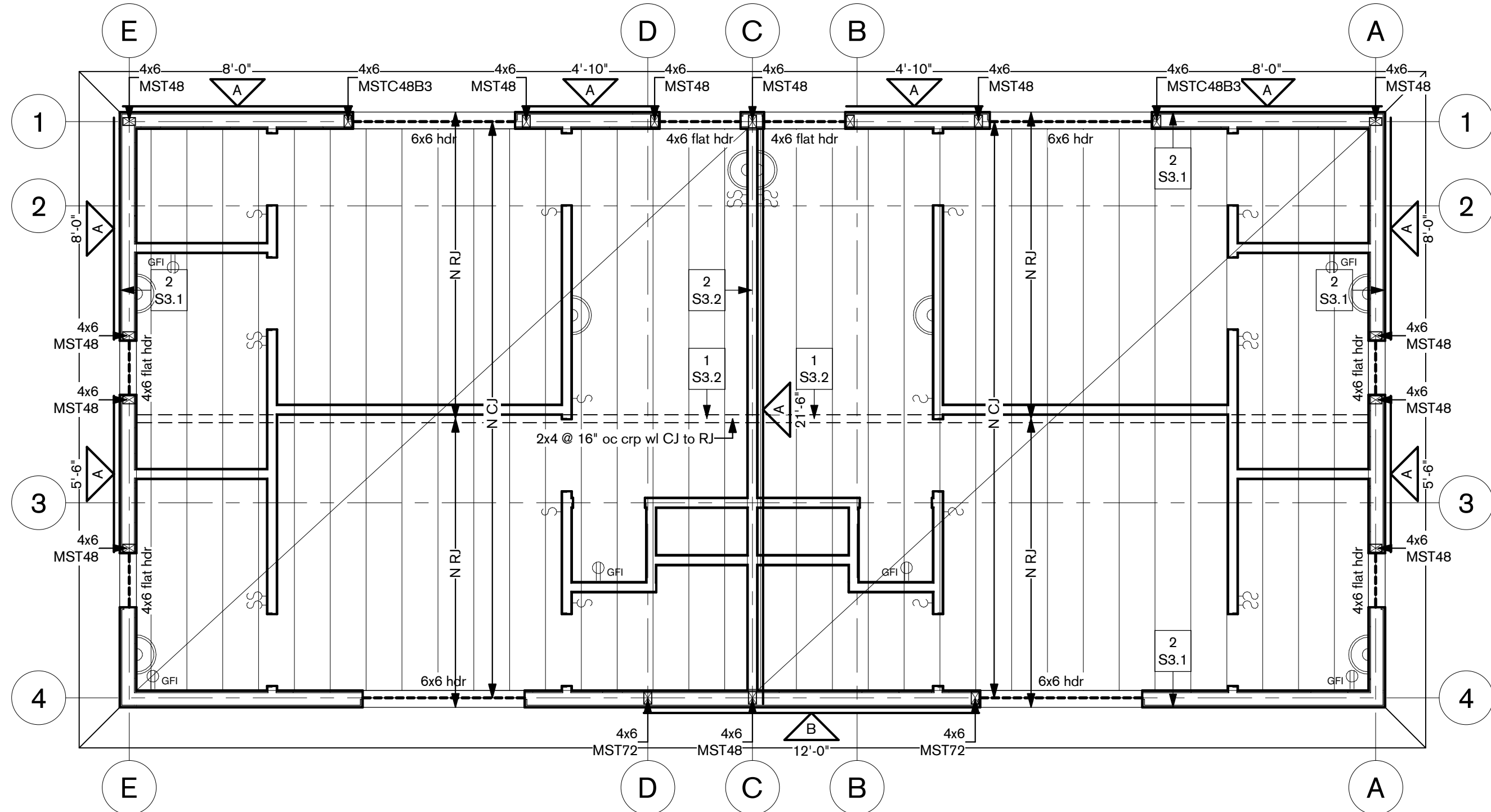
Scale 1/4" = 1'-0"

WOOD FRAMED ROOF / FLOOR NOTES

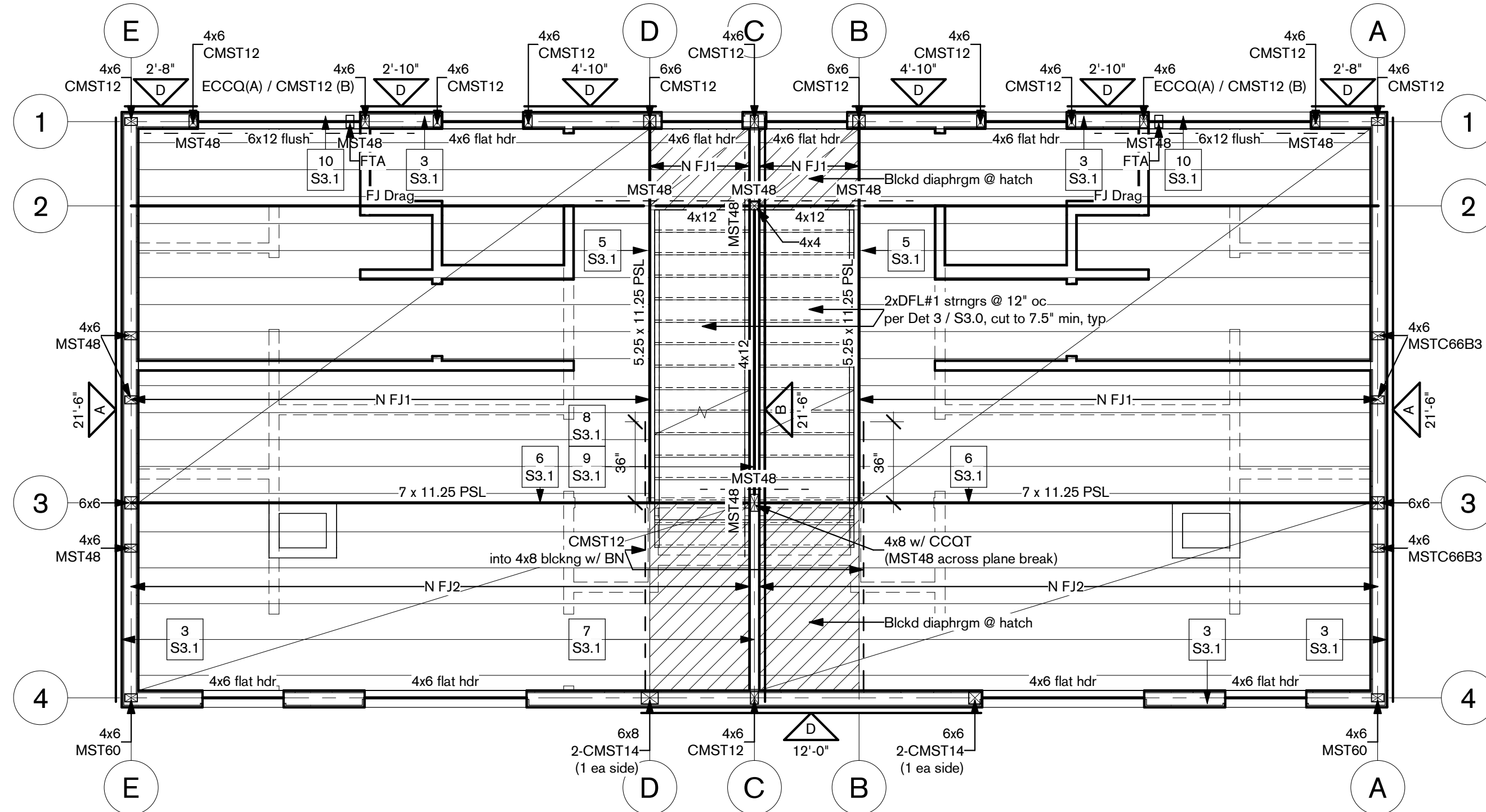
- AT WOOD FRAMING, FLOOR SHALL BE OVER 3/4" PLYWOOD CDX, PII 48/24 T & G w/ 10d COMMON NAILS @ 6, 12" o.c. UNBLOCKED. WHERE BLOCKED DIAPHRAGM IS SPECIFIED PER PLAN BLOCK ALL EDGES w/ FLAT 2x4 AND 10d COMMON NAILS @ 4; 6; 12" o.c. SEE 2/S3.3 FOR ADD INFO.
- AT WOOD FRAMED ROOF, ROOFING SHALL BE OVER 5/8" PLYWOOD, CD-X P11 32/16, w/ 10d COMMON NAILS @ 6; 12" o.c. UNBLOCKED. WHERE BLOCKED DIAPHRAGM IS SPECIFIED PER PLAN BLOCK ALL EDGES w/ FLAT 2x4 AND 10d COMMON NAILS @ 4; 6; 12" o.c. SEE 2/S3.3 FOR ADD INFO.
- SHEAR WALLS SHALL RUN FULL HT. BETWEEN THE FLOOR / ROOF OR FLR / FLR DIAPHRAGMS.
- MINIMUM POST SIZE IS 4x4 IN 2x4 WALLS, AND 4x6 IN 2x6 WALLS.
- STUD WALL THICKNESS SHALL BE THE GREATER OF WHAT IS REQUIRED PER THESE STRUCTURAL PLANS OR WHAT IS REQUIRED PER ARCHITECTURAL PLANS. EXTERIOR WALLS, BEARING WALLS, OR SHEAR WALLS SHALL BE 2x6 @ 16" O.C. MINIMUM FOR STUD HEIGHTS IN EXCESS OF 10'.
- SEE TYPICAL NOTES ON S-1 AND TYPICAL DETAIL SHEETS FOR ADD INFO.
- HEADER LENGTHS GREATER THAN 5'-0" OR SUPPORTING A BEAM OR POST SHALL HAVE DBL 2x OR 4x TRIMMERS U.N.O.
- ALL FLUSH BM. TO BM. CONNECTIONS TO USE SIMP. "HGUS" HNCR @ FLRS & HUTF @ RF U.N.O.
- LICENSED FABRICATOR REQUIRED FOR GLU-LAM BEAMS, ML, TJI & STRUCTURAL STEEL.
- WELDING SHALL BE DONE BY WELDERS CERTIFIED BY THE CITY BUILDING DEPARTMENT FOR STRUC. STEEL.
- PROVIDE DBL JOISTS UNDER ALL PARALLEL PARTITION WALLS OR SHEAR WALLS.
- ALL POSTS WITHOUT SPECIFIED CONNECTORS SHALL BE ATTACHED TO TOP AND BOTTOM PLATES w/ "A35" ON 2 SIDES, (4 TOTAL PER POST). ALL BEAMS WITHOUT SPECIFIED CONNECTORS SHALL BE ATTACHED TO TOP PLATES w/ "A35" EACH SIDE.
- ALL MEMBERS SPECIFIED AS DRAG TO HAVE B.N.
- CONTRACTORS RESPONSIBLE FOR THE CONSTRUCTION OF A WIND OR SEISMIC FORCE RESISTING SYSTEM COMPONENT LISTED IN THE 'STATEMENT OF SPECIAL INSPECTION' SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE CITY INSPECTORS AND THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON SUCH SYSTEM OR COMPONENT PER SEC. 1
- CONTINUOUS SPECIAL INSPECTION BY A REGISTERED DEPUTY INSPECTOR IS REQUIRED FOR FIELD WELDING, CONCRETE STRENGTH $f'_{c} \geq 2500$ psi, HIGH STRENGTH BOLTING, SPRAYED-ON FIREPROOFING, ENGINEERED MASONRY, HIGH-LIFT GROUTING, PRE-STRESSED CONCRETE, HIGH LOAD DIAPHRAGMS AND SPECIAL MOMENT-RESISTING CONCRETE FRAMES.
- FOUNDATION SILLS SHALL BE NATURALLY DURABLE OR PRESERVATIVE-TREATED WOOD.
- GLUED-LAMINATED TIMBERS MUST BE FABRICATED IN A LADBS LICENSED SHOP.
- PERIODIC SPECIAL INSPECTION IS REQUIRED FOR WOOD SHEAR WALLS, SHEAR PANELS, AND DIAPHRAGMS, INCLUDING NAILING, BOLTING, ANCHORING, AND OTHER FASTENING TO COMPONENTS OF THE SEISMIC FORCE RESISTING SYSTEM. SPECIAL INSPECTION BY A DEPUTY INSPECTOR IS REQUIRED WHERE THE FASTENER SPACING OF THE SHEATHING IS 4 INCHES ON CENTER OR LESS.
- HOLD-DOWN CONNECTOR BOLTS INTO WOOD FRAMING REQUIRE APPROVED PLATE WASHERS; AND HOLD-DOWNS SHALL BE FINGER TIGHT AND 1/2 WRENCH TURN JUST PRIOR TO COVERING THE WALL FRAMING. CONNECTOR BOLTS INTO WOOD FRAMING REQUIRE STEEL PLATE WASHERS ON THE POST ON THE OPPOSITE SIDE OF THE ANCHORAGE DEVICE. PLATE SIZE SHALL BE A MINIMUM OF 0.299 INCH BY 3 INCHES BY 3 INCHES.
- ROOF DIAPHRAGM NAILING TO BE INSPECTED BEFORE COVERING. FACE GRAIN OF PLYWOOD SHALL BE PERPENDICULAR TO SUPPORTS. FLOOR SHALL HAVE TONGUE AND GROOVE OR BLOCKED PANEL EDGES. PLYWOOD SPANS SHALL CONFORM WITH TABLE 2304.7.
- ALL DIAPHRAGM AND SHEAR WALL NAILING SHALL UTILIZE COMMON NAILS.
- ALL BOLT HOLES SHALL BE DRILLED 1/32" TO 1/16" OVERSIZED.
- HOLDOWN HARDWARE MUST BE SECURED IN PLACE PRIOR TO FOUNDATION INSPECTION.
- A COPY OF THE LOS ANGELES RESEARCH REPORT AND/OR CONDITIONS OF LISTING SHALL BE MADE AVAILABLE AT THE JOB SITE.
- FASTENERS IN PRESERVATIVE TREATED WOOD OR FIRE RETARDANT TREATED WOOD SHALL BE OF HOT DIPPED ZINC COATED GALVANIZED STEEL OR STAINLESS STEEL.
- FIELD WELDING TO BE DONE BY WELDERS CERTIFIED BY THE LADBS FOR (STRUCTURAL STEEL) (REINFORCING STEEL) (LIGHT GAUGE STEEL). CONTINUOUS INSPECTION BY A DEPUTY INSPECTOR IS REQUIRED.
- SHOP WELDS MUST BE PERFORMED IN A LADBS LICENSED FABRICATOR'S SHOP.
- LADBS LICENSED FABRICATOR IS REQUIRED FOR TRUSSES, STRUCTURAL STEEL, PARALLAMS.
- PROVIDE LEAD HOLE 40% - 70% OF THREADED SHANK DIAMETER AND FULL DIAMETER FOR SMOOTH SHANK PORTION.
- PROVIDE MST48 ACROSS ANY BROKEN TOP PLATES, OR WHERE TOP PLATES END AND TRANSITION TO A BEAM. AT BREAK DUE TO CONTINUOUS HSS COLUMN, TOP PLATE SHOULD BE TIGHTLY FITTED AGAINST COLUMN OR COLUMN NAILER AND SPLICED w/ MST48.
- PROVIDE MST48 MIN. STRAP ACROSS ALL BROKEN TOP PLATES @ CC LOCATIONS, HSS LOCATIONS, OR SIMILAR.
- ALL DIAPHRAGM AND SHEAR WALL NAILING SHALL UTILIZE COMMON NAILS.
- UNLESS SHOWN OTHERWISE ON THE PLANS, PROVIDE A POST BELOW ENDS OF ALL BEAMS (OR POSTS ABV.) TO MATCH THICKNESS OF STUD WALL AND WIDTH OF BEAM (OR POST ABOVE).



Framing Plan - Lvl 1
Scale 1/4" = 1'-0"



Framing Plan - Rf
Scale 1/4" = 1'-0"



Framing Plan - Lvl 2
Scale 1/4" = 1'-0"

INTERIOR NONBEARING WALL HEADER SCHEDULE

SIZE	MAX. AVG. DISTANCE TO ADJACENT WALL EA. SIDE	10'-0"
4x4 OR DBL. 2x4 (ON EDGE)	4'-9"	3'-5"
4x6	7'-8"	5'-6"
4x8	10'-1"	7'-3"

CEILING JOIST SCHEDULE

SIZE/SPACING	> 42" ATTIC CLEARANCE MAX. SPAN o.c.	< 42" ATTIC CLEARANCE MAX. SPAN o.c.
2x4 @ 24	6'-9"	8'-1"
2x4 @ 16	7'-9"	9'-3"
2x4 @ 12	8'-6"	10'-2"
2x6 @ 24	10'-8"	12'-8"
2x6 @ 16	12'-3"	14'-6"
2x6 @ 12	13'-6"	15'-11"
2x8 @ 24	14'-1"	16'-8"
2x8 @ 16	16'-2"	19'-0"
2x8 @ 12	17'-9"	21'-0"
2x10 @ 24	18'-0"	21'-4"
2x10 @ 16	20'-7"	24'-5"
2x10 @ 12	22'-8"	26'-9"

Joist Legend

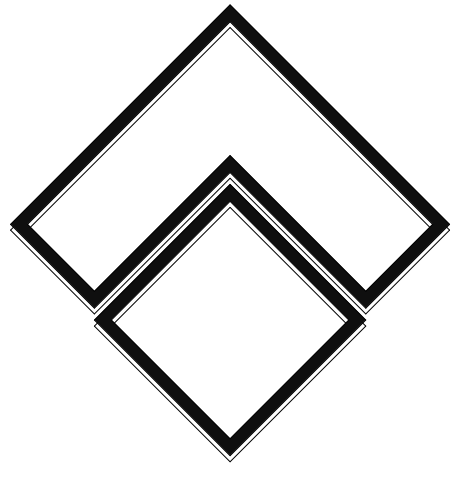
- N RJ 2x6 @ 24" oc new roof joists
- N CJ 2x12 @ 16" oc new ceiling joists
- N FJ1 2x12 DFL#1 @ 16" oc OR 2x12 #2 @ 12" oc new floor joists
- N FJ2 Dbl 2x12 #2 @ 16" oc new floor joists
- ERJ Existing Roof Joists as occurs

Symbol Legend

- Span & direction of N roof joists
- Span & direction of N floor joists
- Span & direction of N ceil joists
- Shear wall length and type per sched. on S5.0
- Post w/ holdown or strap to below
- Post above w/ strap or holdown floor tie from above
- Post above
- Parallam by Weyerhaeuser

Wall Legend

- New std wall 2x4 @ 16" oc, UNO
- 2x6 @ 16" oc @ pimbng wls
- 2x6 @ 16" oc @ ext wls
- Existing stud wall 2x4 @ 16" oc uno
- Demo wall
- Wall above



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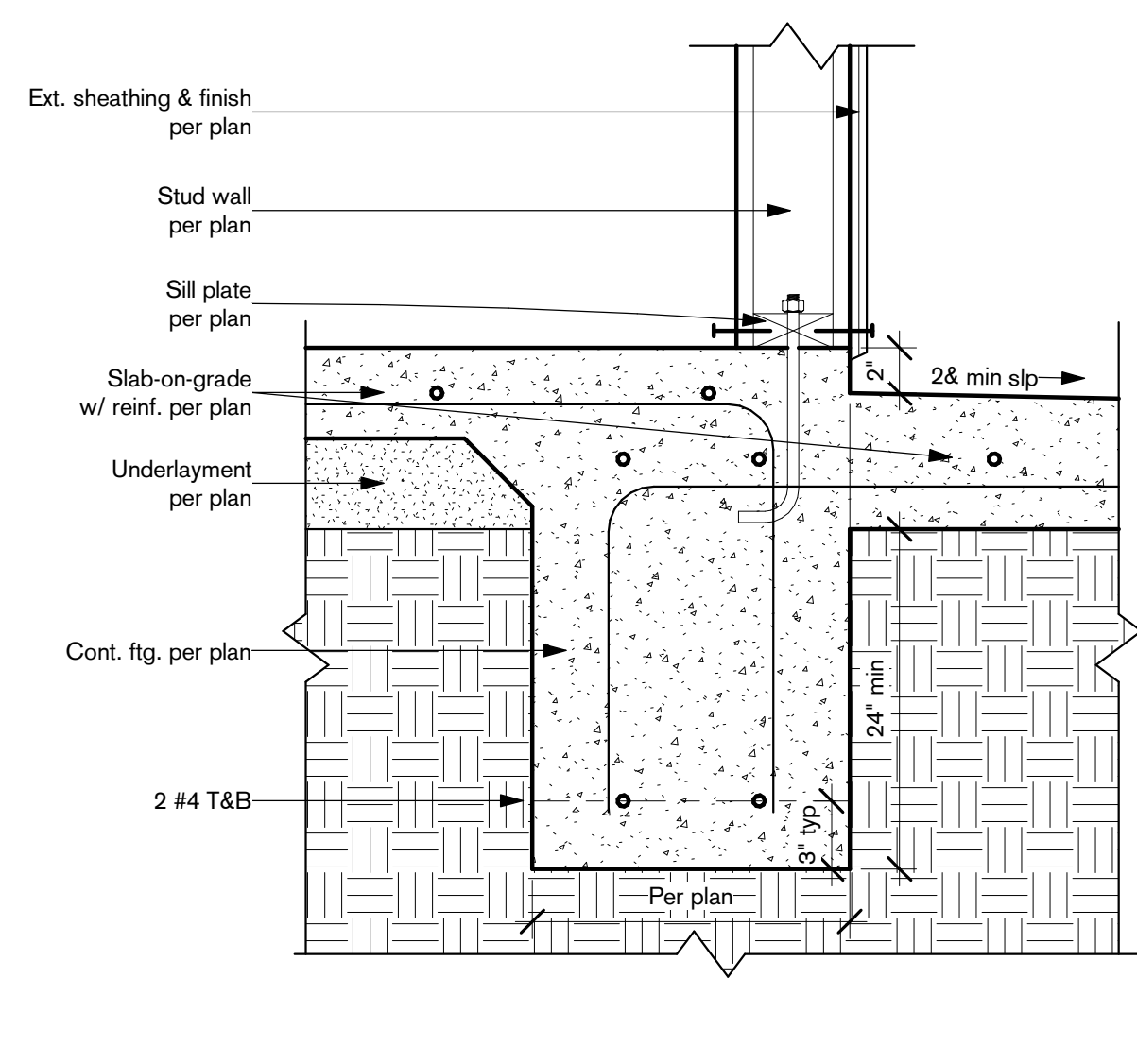
Drawn by Paul Boranian, Egor Shpak

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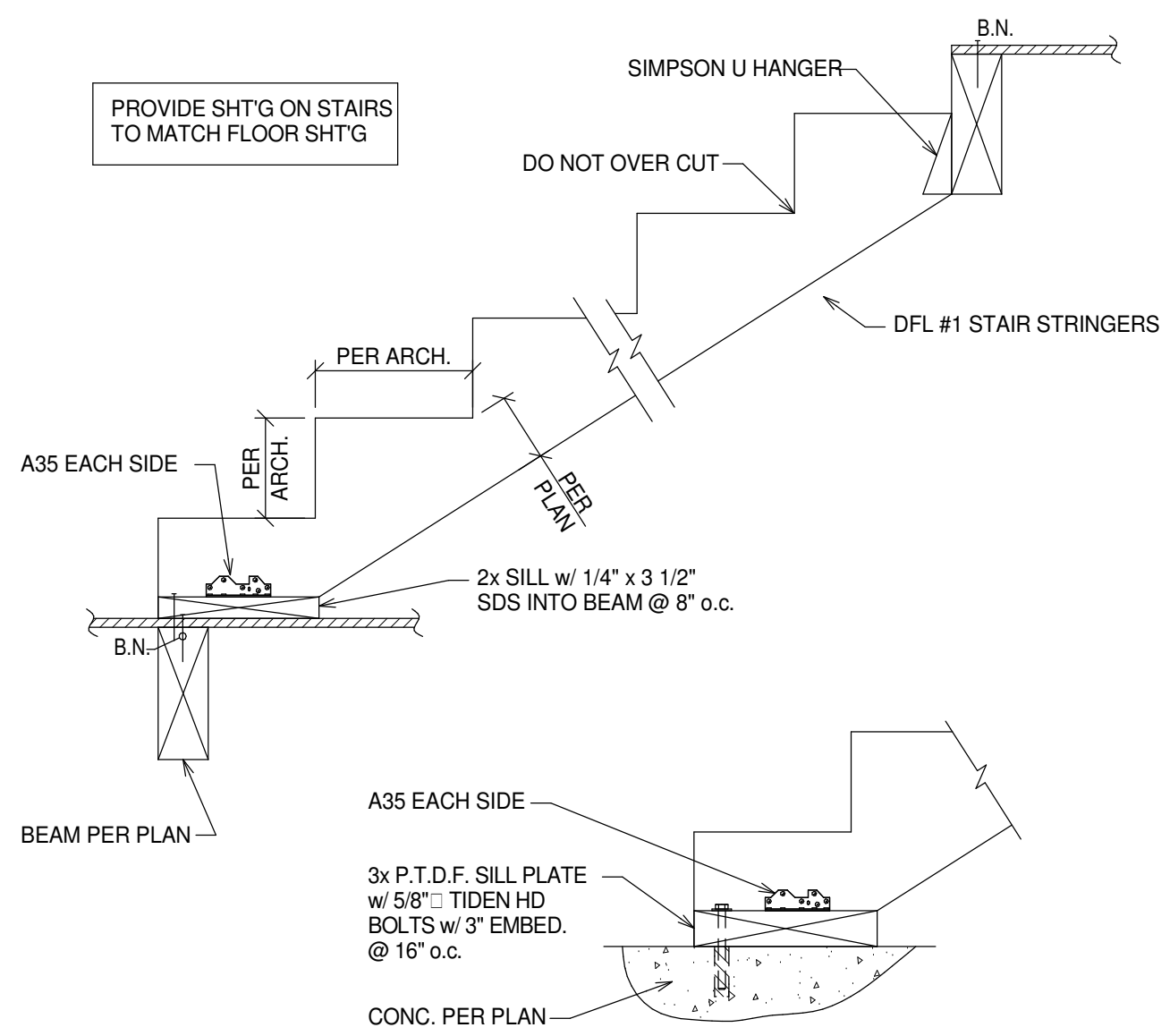
S2.0

Scale 1/4" = 1'-0"

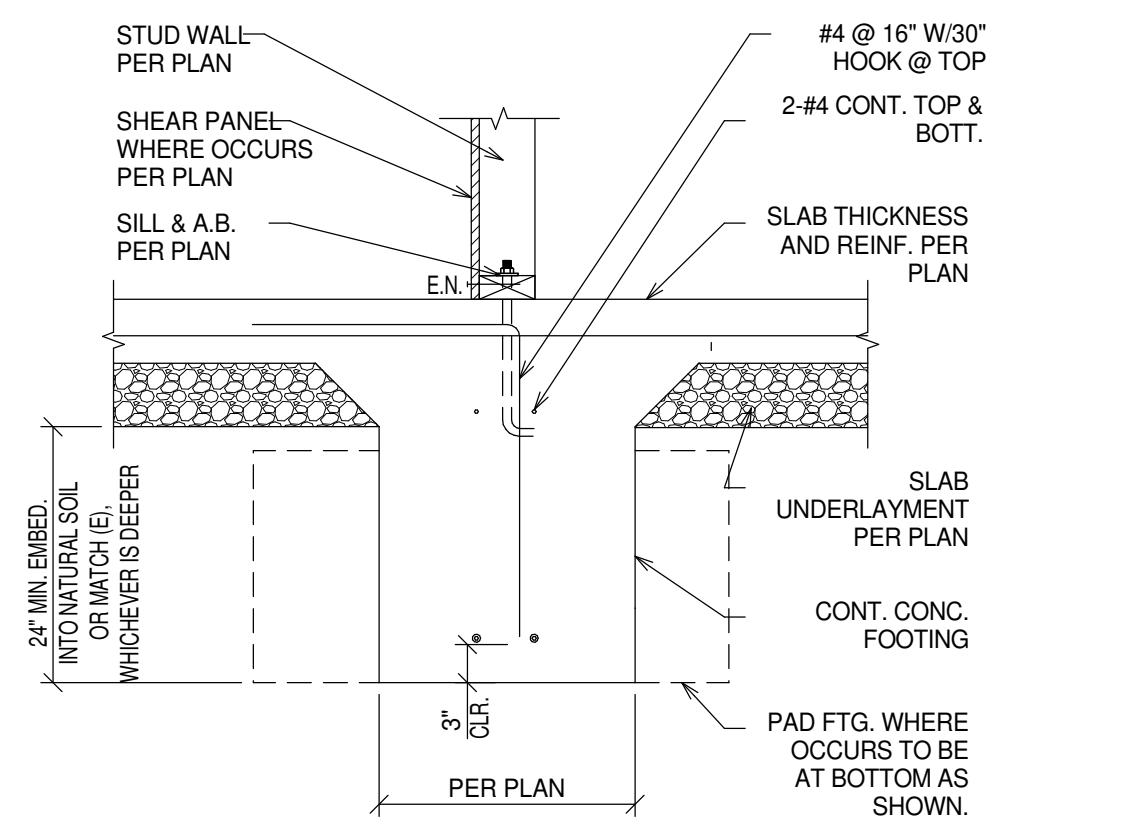
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Ext. Ftg. to Depressed Slab **4**
Scale 1 1/2" = 1'-0"

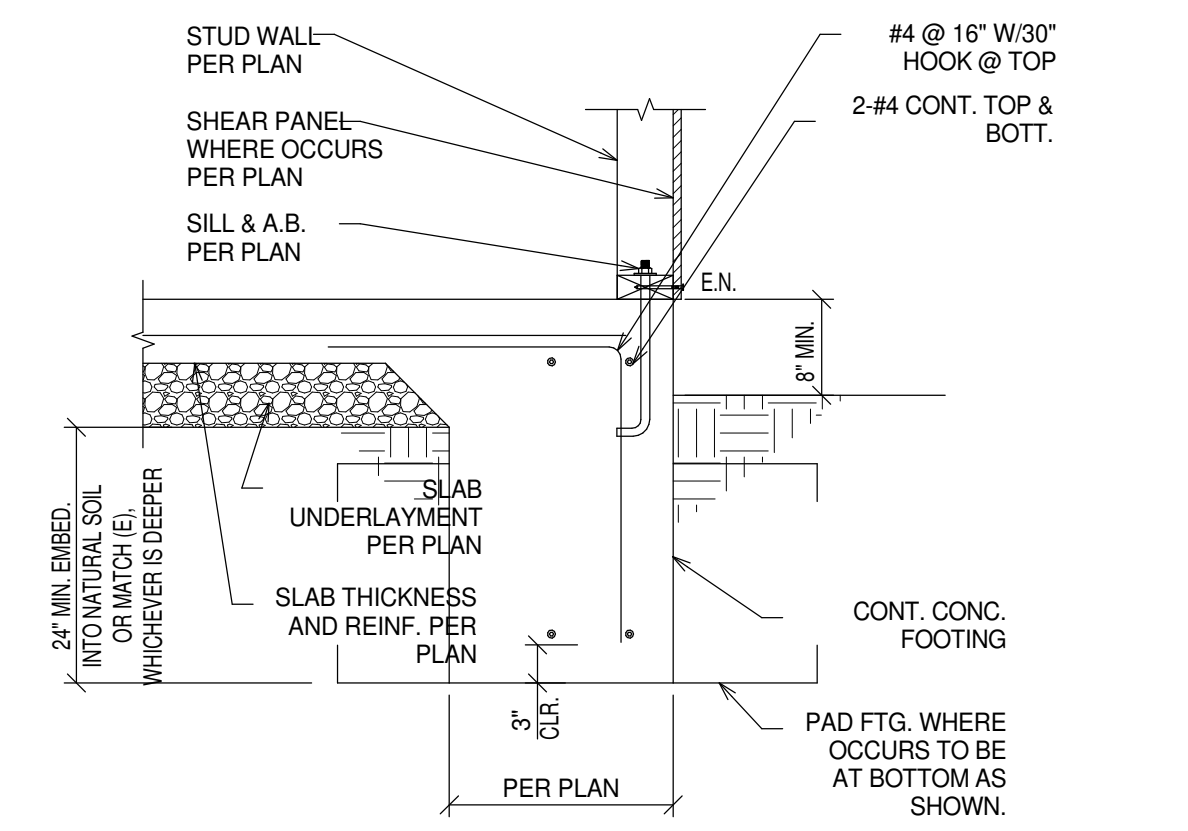


Str Strngr @ Ftg **3**
Scale 1" = 1'-0"



NOTE: WHERE CURB OCCURS, CURB TO BE 6\"/>

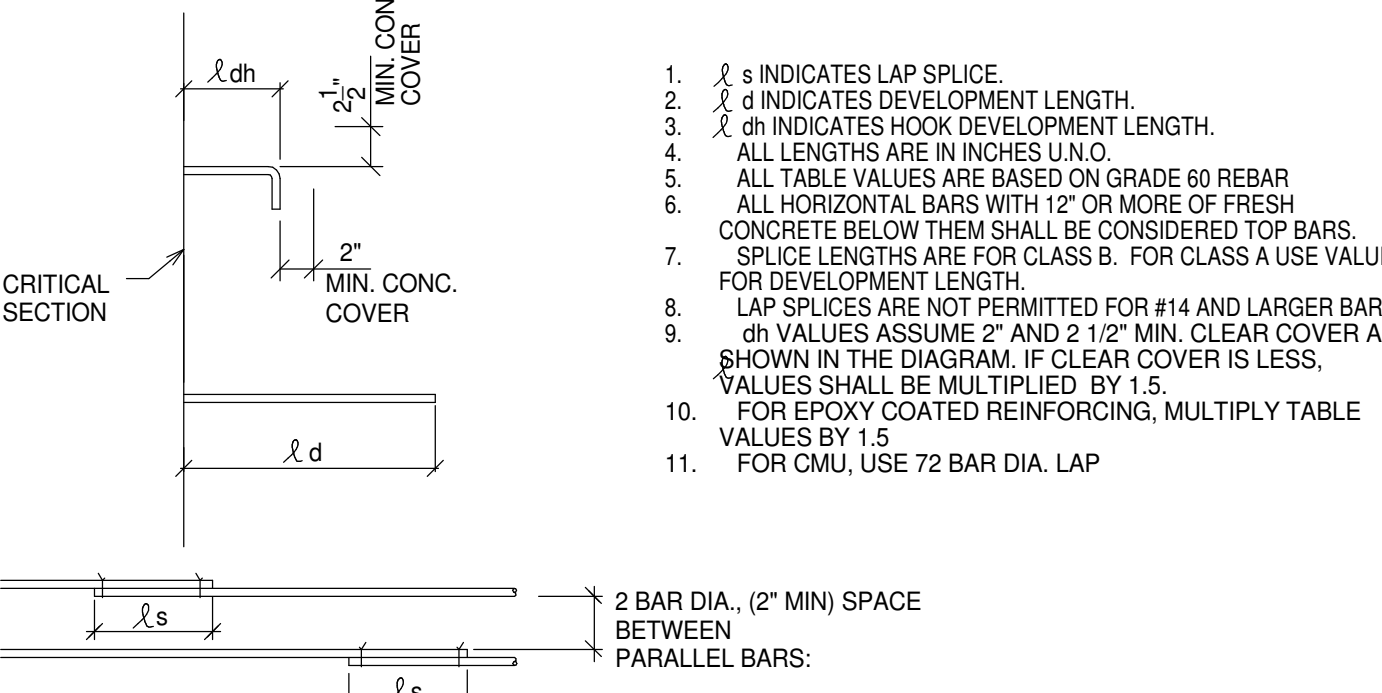
Int. Ftg. **2**
Scale 1" = 1'-0"



NOTE: WHERE CURB OCCURS, CURB TO BE 6\"/>

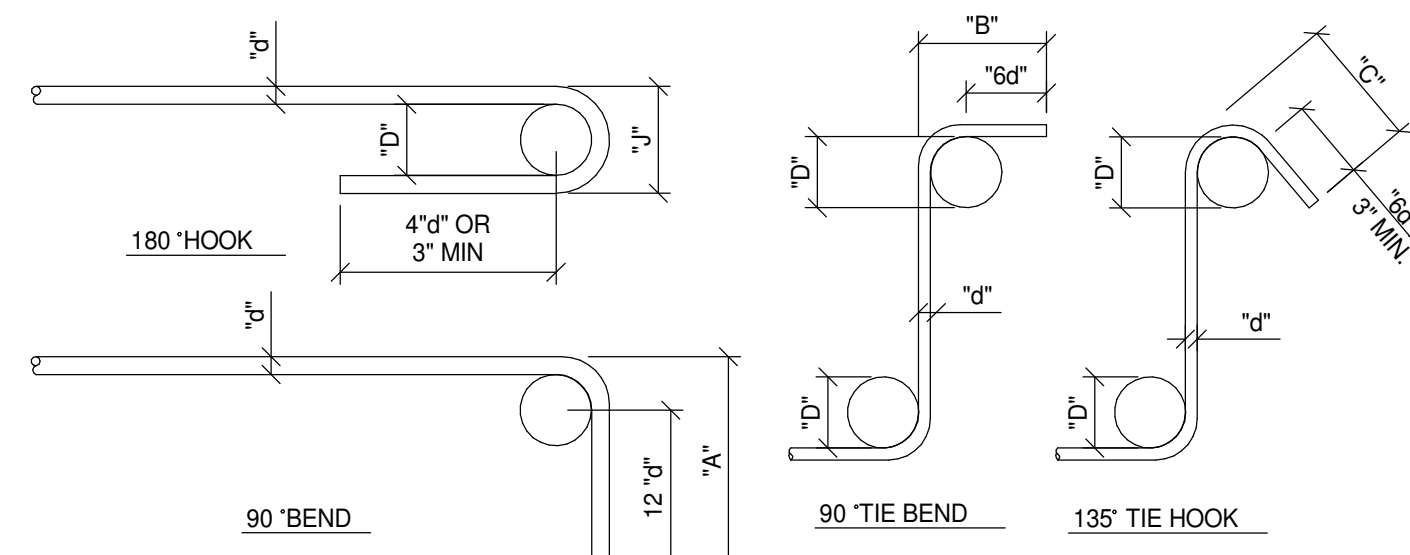
Ext. Ftg. **1**
Scale 1" = 1'-0"

BAR SIZE	2500 PSI				3000 PSI				4000 PSI AND HIGHER				
	λd	λs	λd	λs	λd	λs	λd	λs	λd	λs	λd	λs	
#3	18	24	24	31	7	17	22	28	6	15	19	24	5
#4	24	32	32	41	9	22	29	37	8	19	25	33	7
#5	30	39	40	51	11	28	36	47	10	24	31	41	9
#6	37	47	47	61	13	33	43	56	12	29	37	49	10
#7	53	69	69	89	15	48	63	81	14	42	54	71	12
#8	60	78	78	102	17	55	72	93	16	48	62	81	14
#9	68	88	88	115	19	62	81	105	18	54	70	91	15
#10	77	100	100	129	22	70	91	118	20	61	79	102	17
#11	85	110	110	143	24	78	101	131	22	77	87	113	19



- λ s INDICATES LAP SPLICE.
- λ d INDICATES DEVELOPMENT LENGTH.
- λ dh INDICATES HOOK DEVELOPMENT LENGTH.
- ALL LENGTHS ARE IN INCHES U.N.O.
- ALL TABLE VALUES ARE BASED ON GRADE 60 FRESH CONCRETE BELOW THEM SHALL BE CONSIDERED TOP BARS.
- SPLICE LENGTHS ARE FOR CLASS B. FOR CLASS A USE VALUES FOR DEVELOPMENT LENGTH.
- LAP SPLICES ARE NOT PERMITTED FOR #14 AND LARGER BARS.
- dh VALUES ASSUME 2\"/>

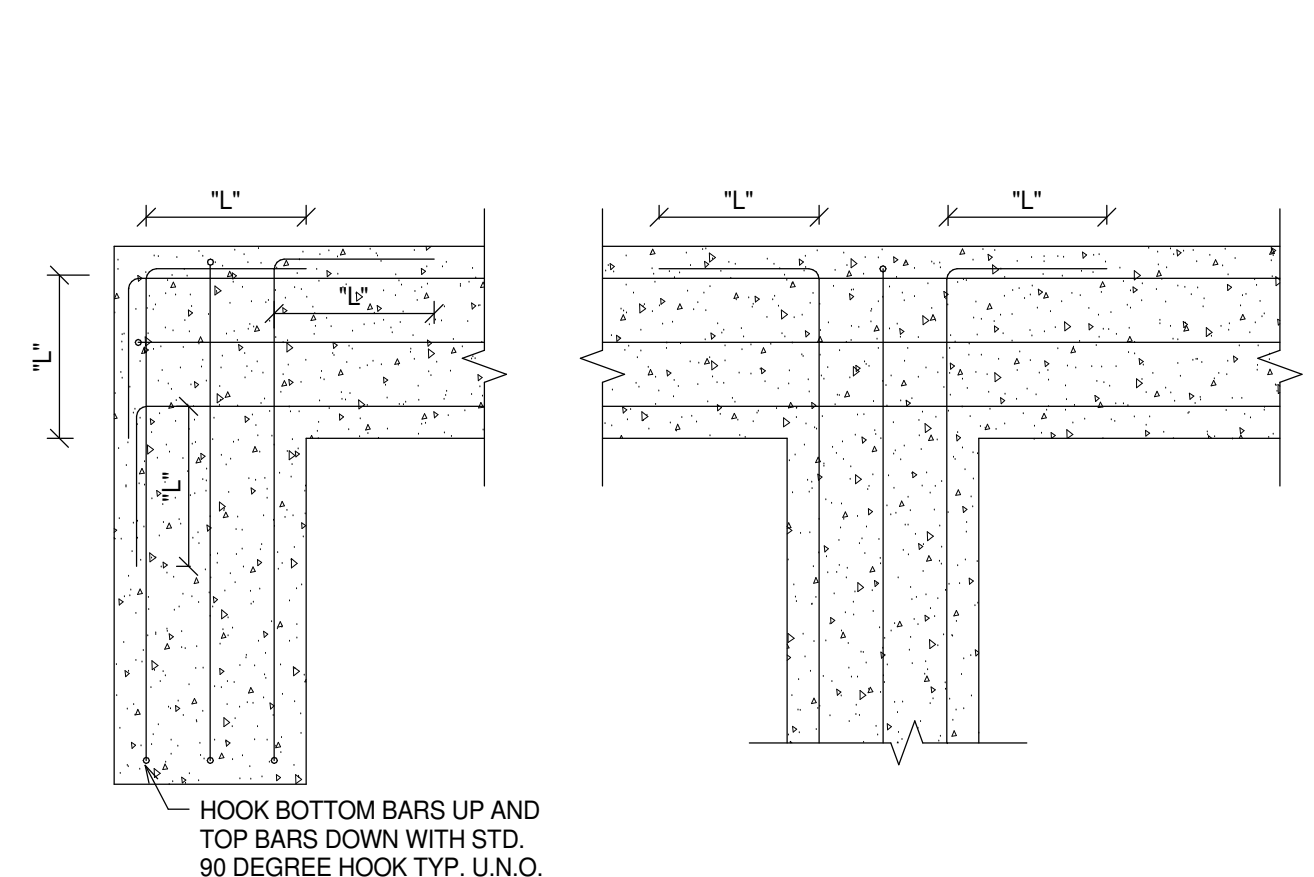
Reinforcement Lap Splice and Development Length Schedule **8**
Scale 1" = 1'-0"



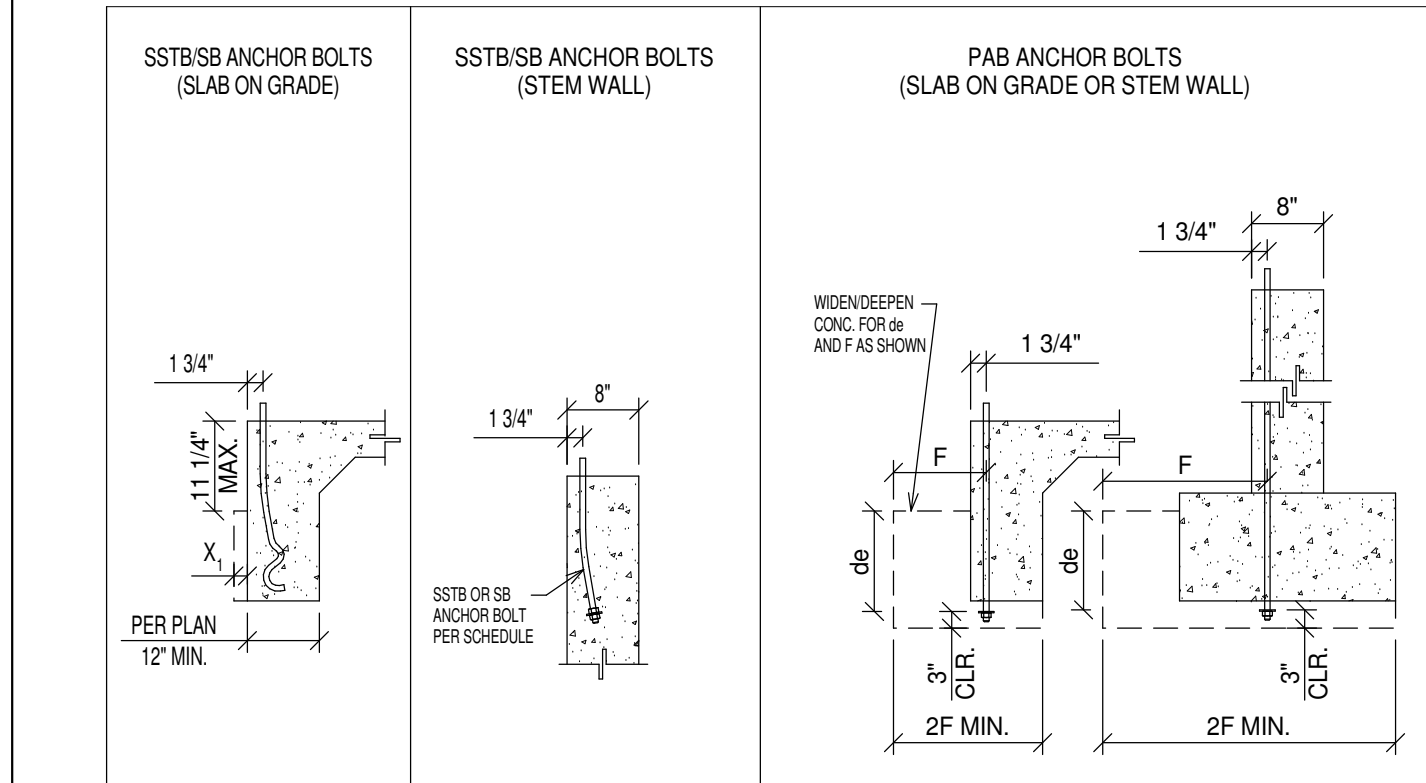
BAR SIZE	PRINCIPAL REINFORCING			STIRRUPS OR TIES		
	D	180° HOOKS	90° HOOKS	D	90° HOOKS	135° HOOKS
#3	2 1/4"	3"	6"	1 1/2"	"B"	"C"
#4	3"	4"	8"	2"	4 1/2"	5 1/2"
#5	3 3/4"	5"	10"	2 1/2"	6"	6 1/4"
#6	4 1/2"	6"	1'-0"			
#7	5 1/4"	7"	1'-2"			
#8	6"	8"	1'-4"			
#9	9 1/2"	11 3/4"	1'-7"			
#10	10 3/4"	1'-1 1/4"	1'-10"			
#11	12"	1'-2 3/4"	2'-0"			
#14	18 1/4"	1'-9 3/4"	2'-7"			
#18	24"	2'-4 1/2"	3'-5"			

NOTES:
1. ALL BENDS SHALL BE MADE COLD
2. MAX. OFFSET BEND = 1/6

Bar Bends, typ. **7**
Scale 1" = 1'-0"



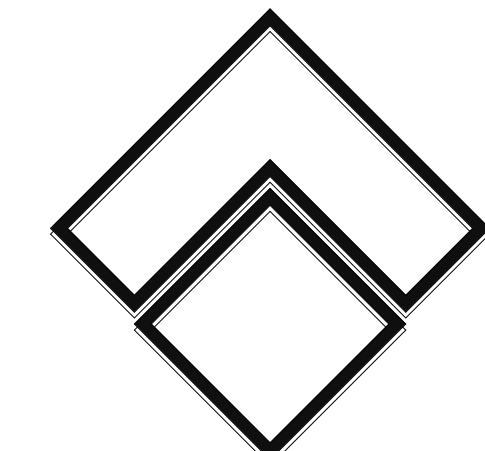
Typical Footing Reinforcement at Corners, Intersections and Ends **5**
Scale 1" = 1'-0"



SSTB/SB A.B. @ SLAB ON GRADE	X ₁	SSTB/SB A.B. @ STEM WALL (OR GARAGE FOOTING w/ CURB)	PAB ANCHOR BOLT	d _e	F	
HDU2	SSTB16	1 1/2"	SSTB24	PAB5	7"	10"
HDU4	SSTB20	1 1/2"	SBS7/8x24	PAB5	7"	10"
HDU5	SSTB24	1 1/2"	SBS7/8x24	PAB5	7"	10"
HDU8	SSTB28	1 1/2"	SB7/8x24	PAB7	10"	15"
HDU11	SB1x30	1 1/2"		PAB8	12"	18"
HDU14	SB1x30	6"	NOT PERMITTED	PAB8	12"	18"
HDU19	NOT PERMITTED		USE PAB A.B.	PAB10	15"	23"

- #4 CONT. HORIZ. BAR REQUIRED 3'-5" FROM TOP OF CONCRETE MIN.
- X₁ TO EXTEND 24" MIN. ALONG LENGTH OF FOOTING AND BE CENTERED w/ A.B.
- PAB5 AND PAB7 ANCHOR BOLTS w/ 24" AND 30" MIN. CONG. EMBEDMENT RESPECTIVELY MAY BE USED AT THE STEM WALL CONDITION AND ARE NOT REQUIRED TO THE BASE OF FOOTING. EXTEND TO
- CONC. = 2500psi MIN.
- A307 THREADED ROD w/ PLATE WASHER AND DBL. NUTS TO MATCH PAB BOLTS MAY BE USED IN LIEU OF PAB BOLTS.

Typical Holddowns at Foundation **6**
Scale 1" = 1'-0"



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Found Details

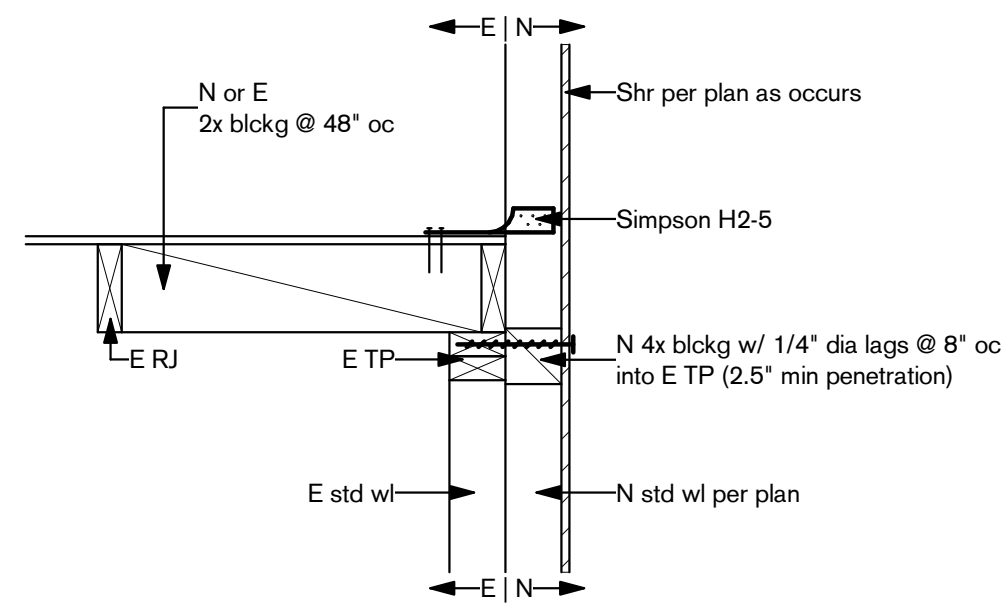
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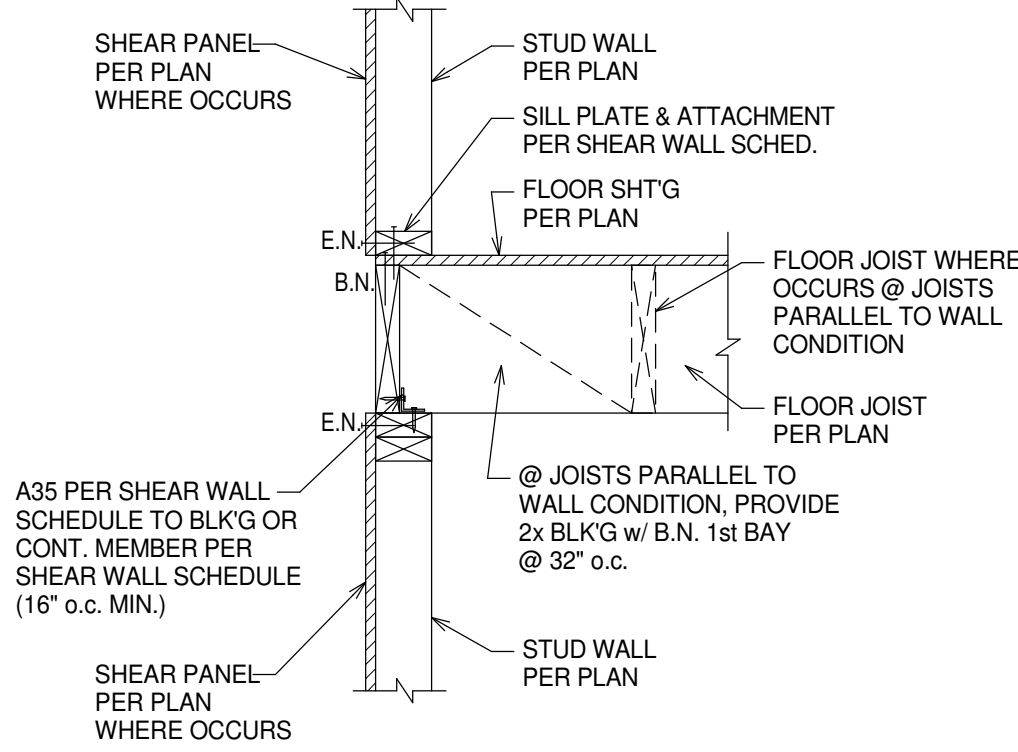
S3.0

Scale As indicated

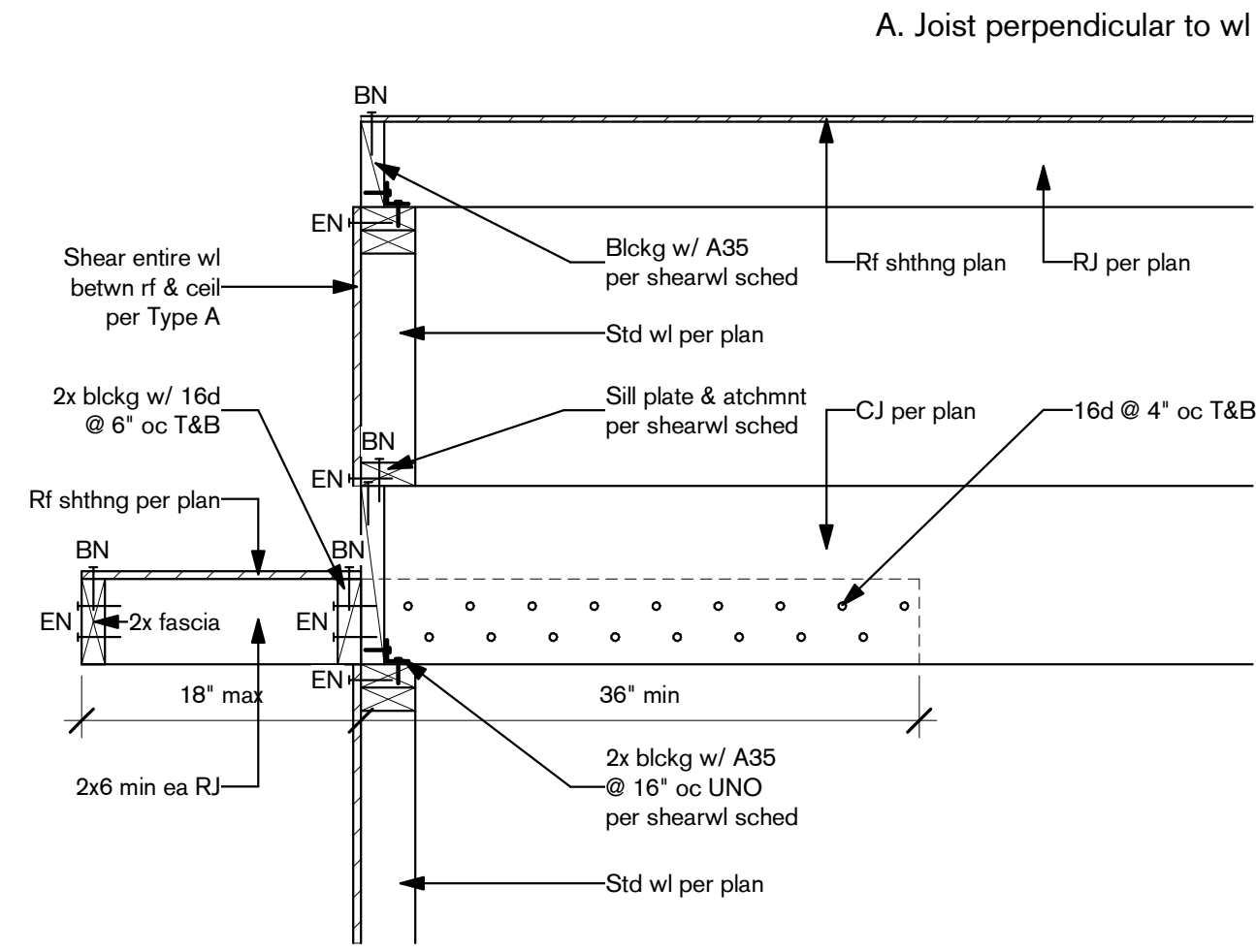
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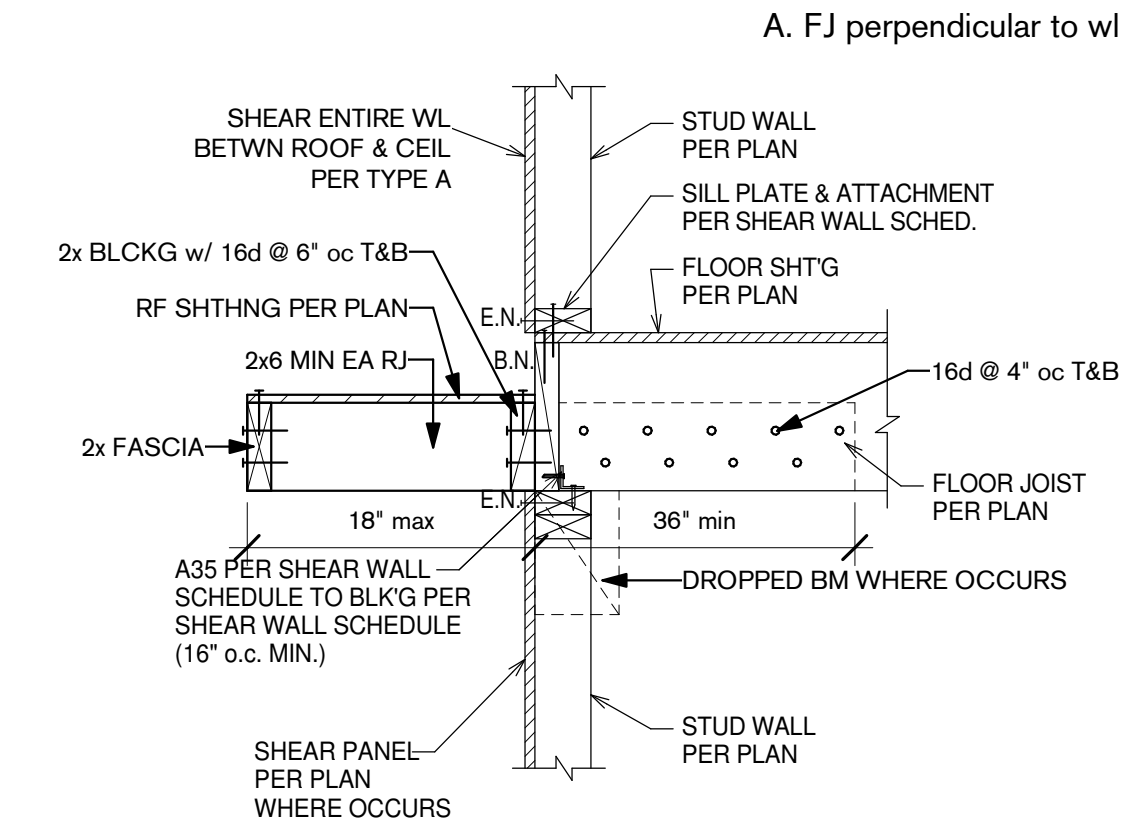
N Ext. Wl to E
Scale 1" = 1'-0"



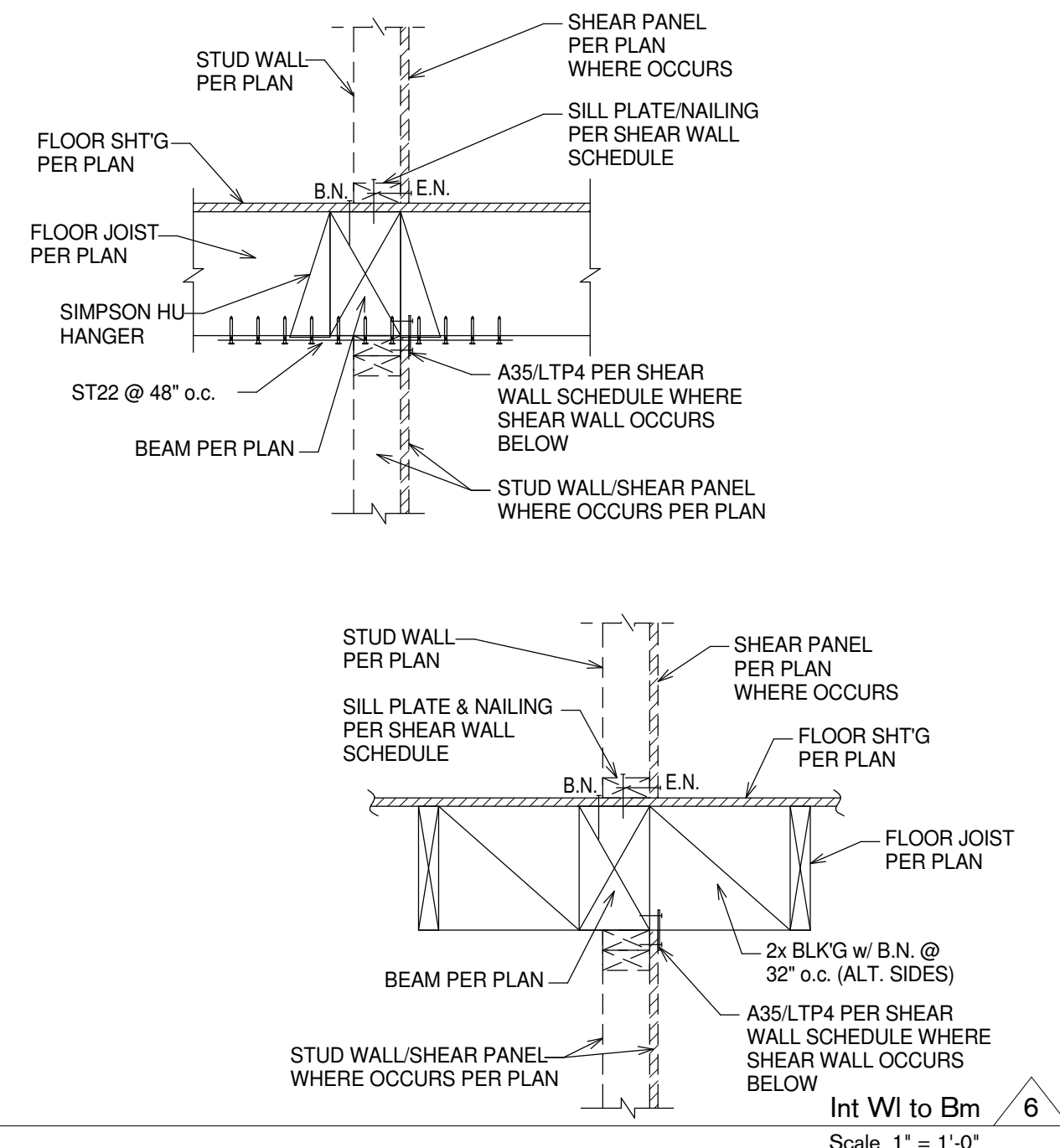
Flr Frmng 2
Scale 1" = 1'-0"



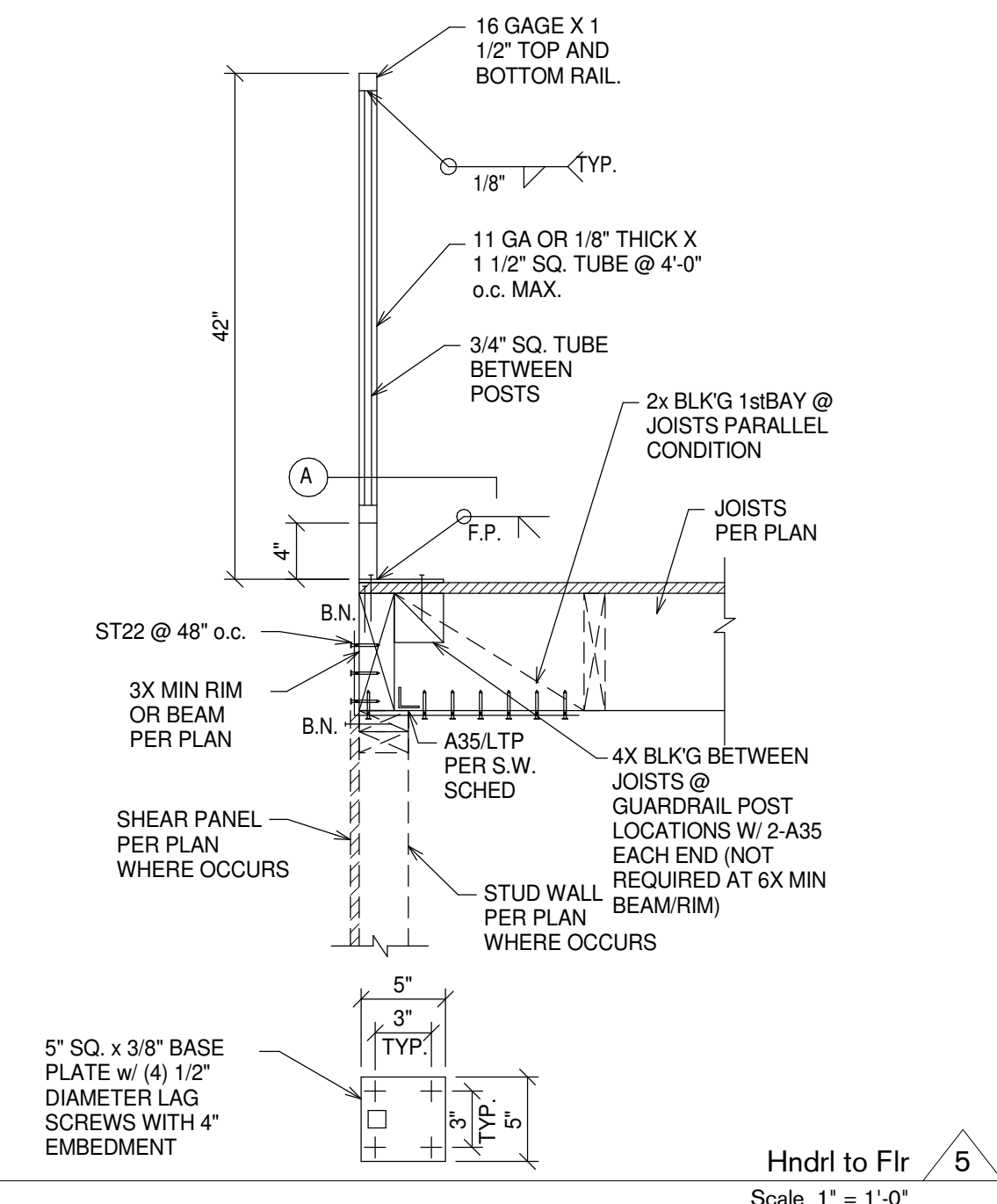
A. Joist perpendicular to wl



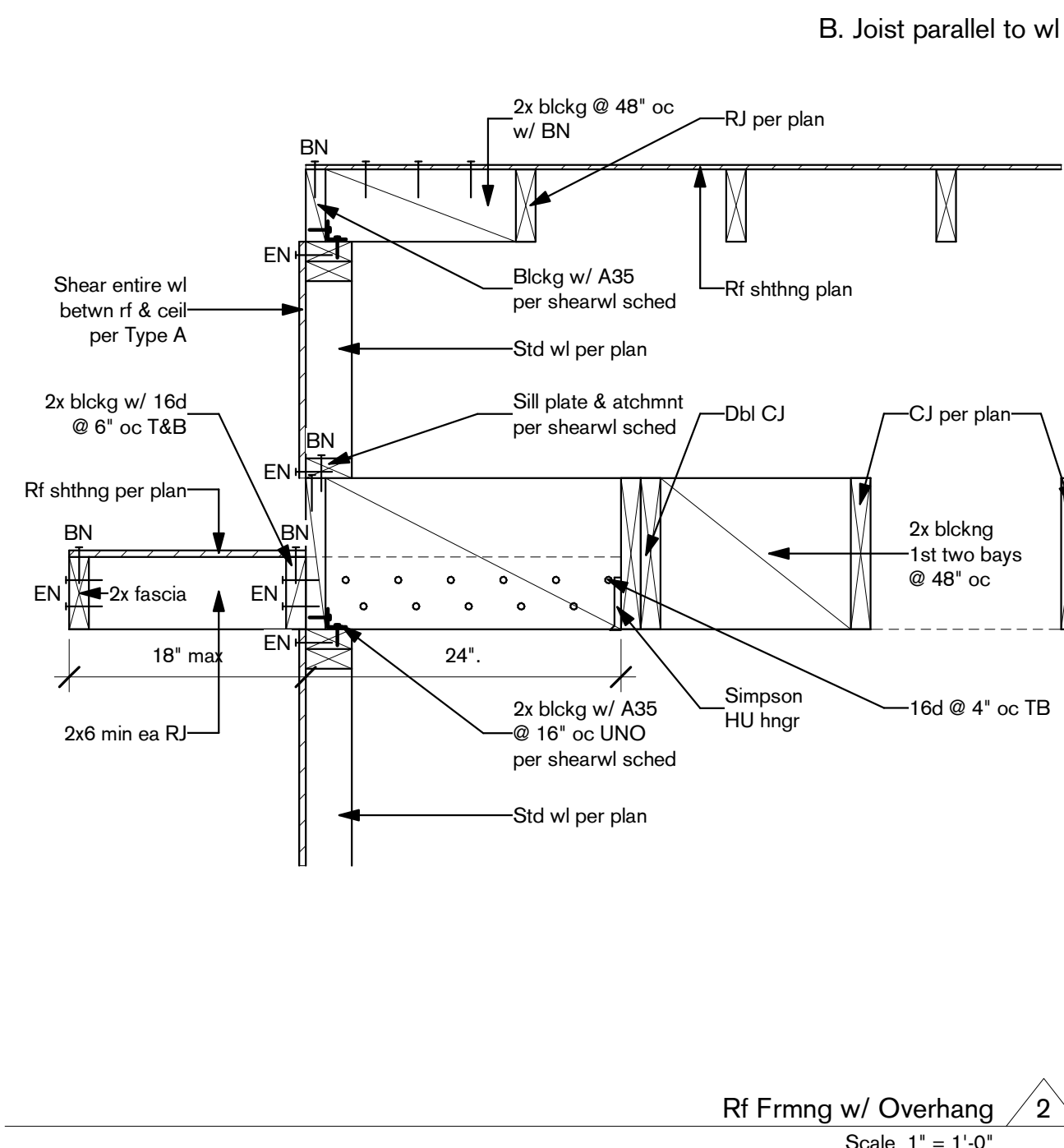
A. FJ perpendicular to wl



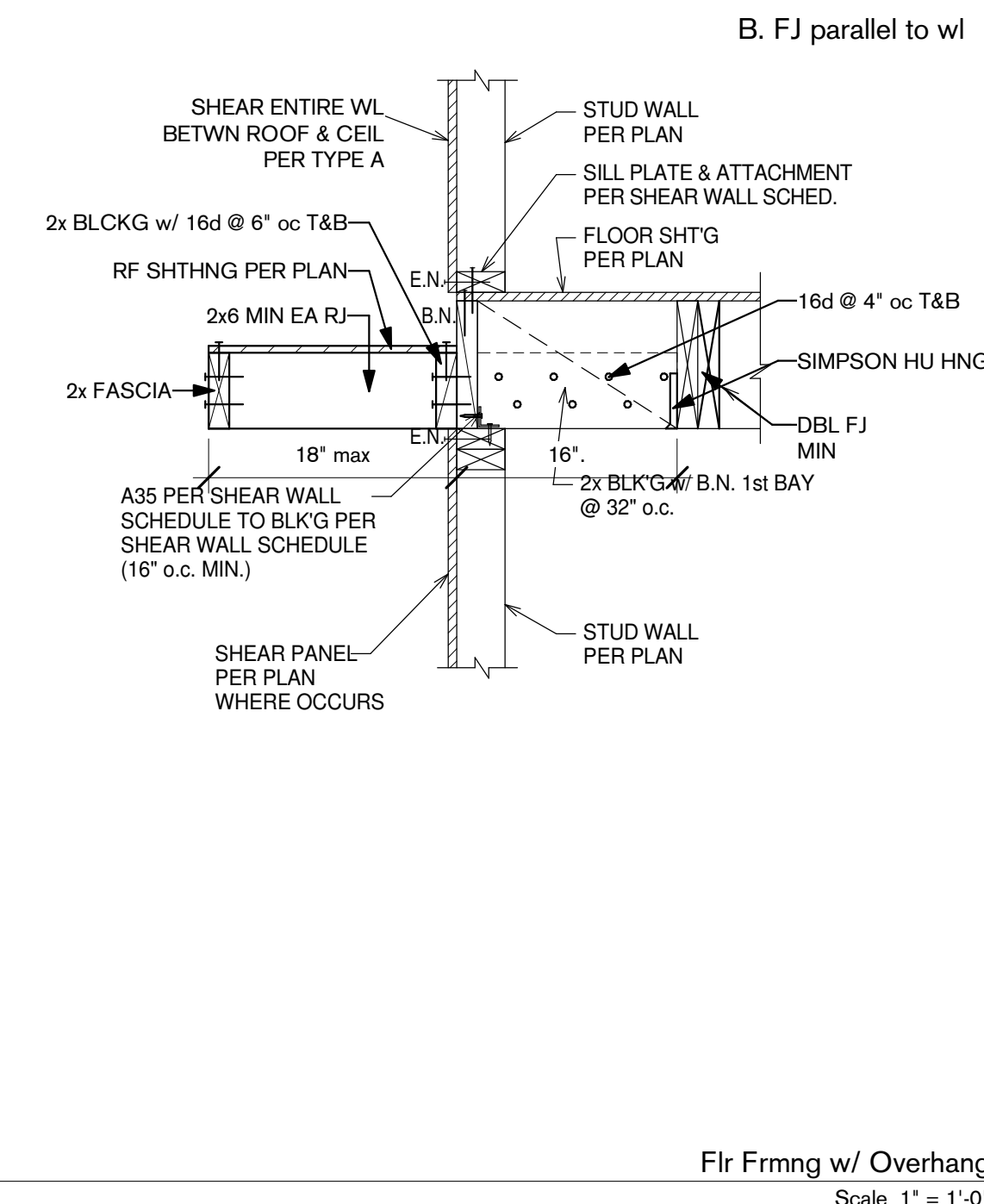
Int Wl to Bm
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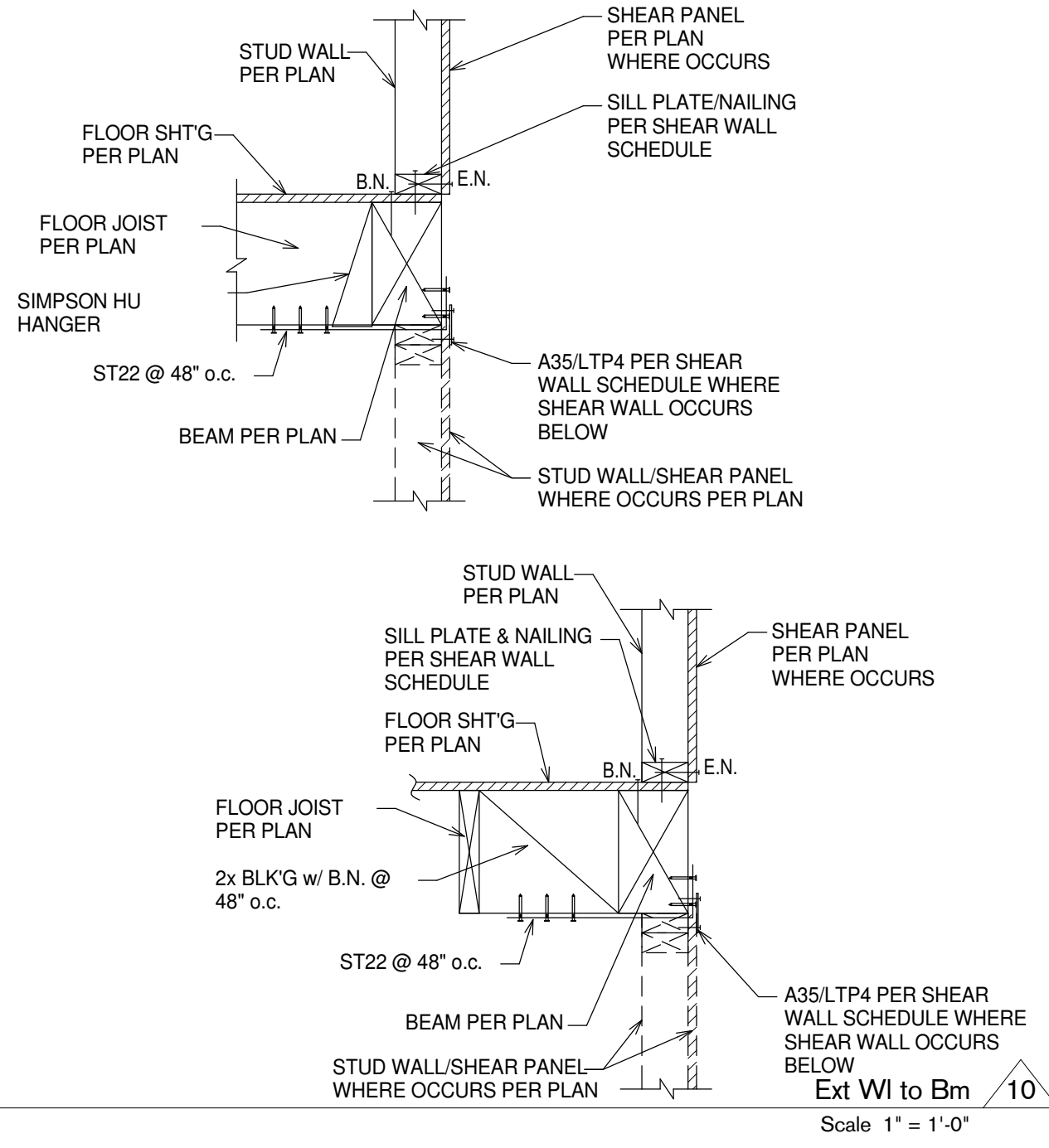
Hndrl to Flr
Scale 1" = 1'-0"



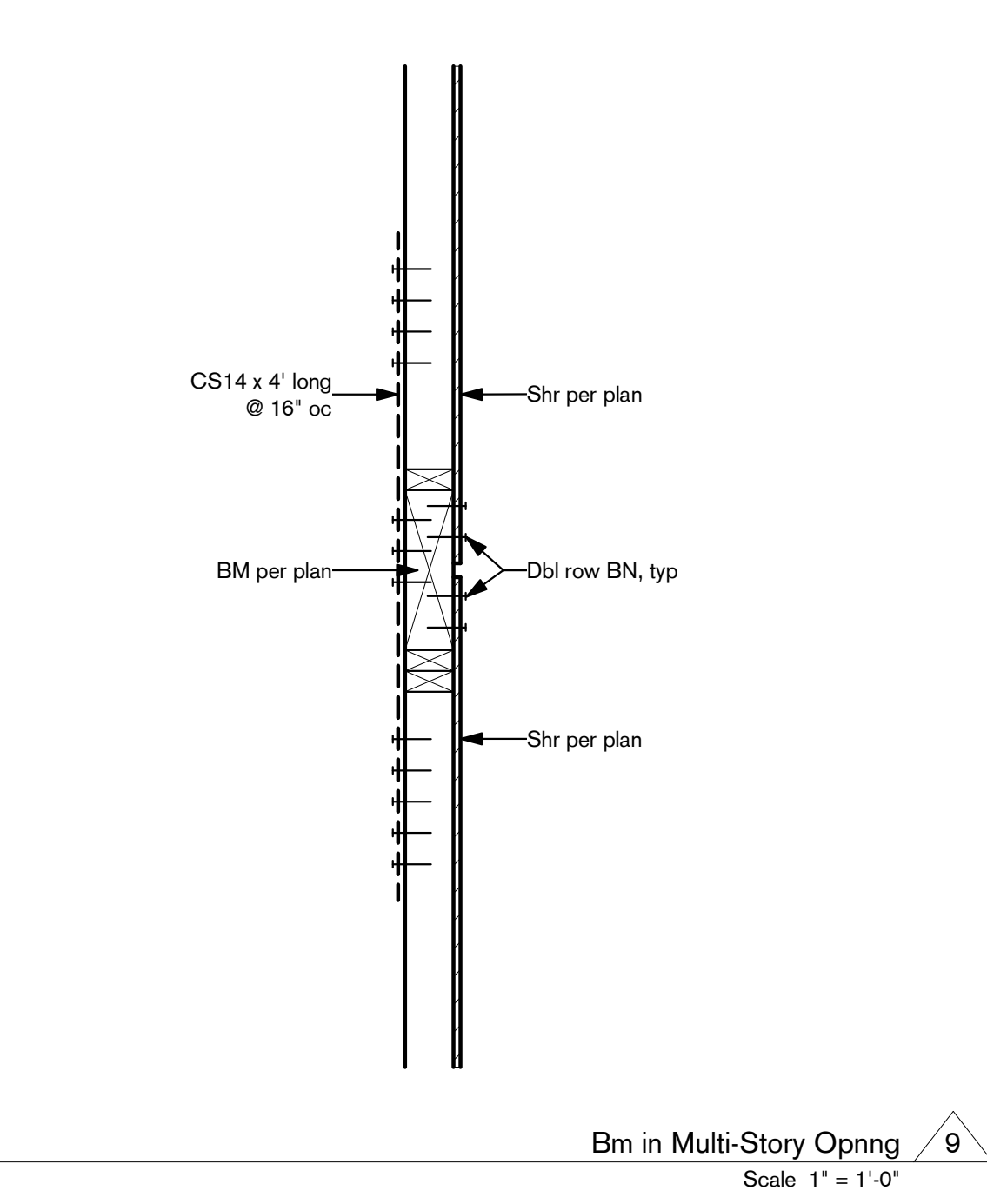
B. Joist parallel to wl



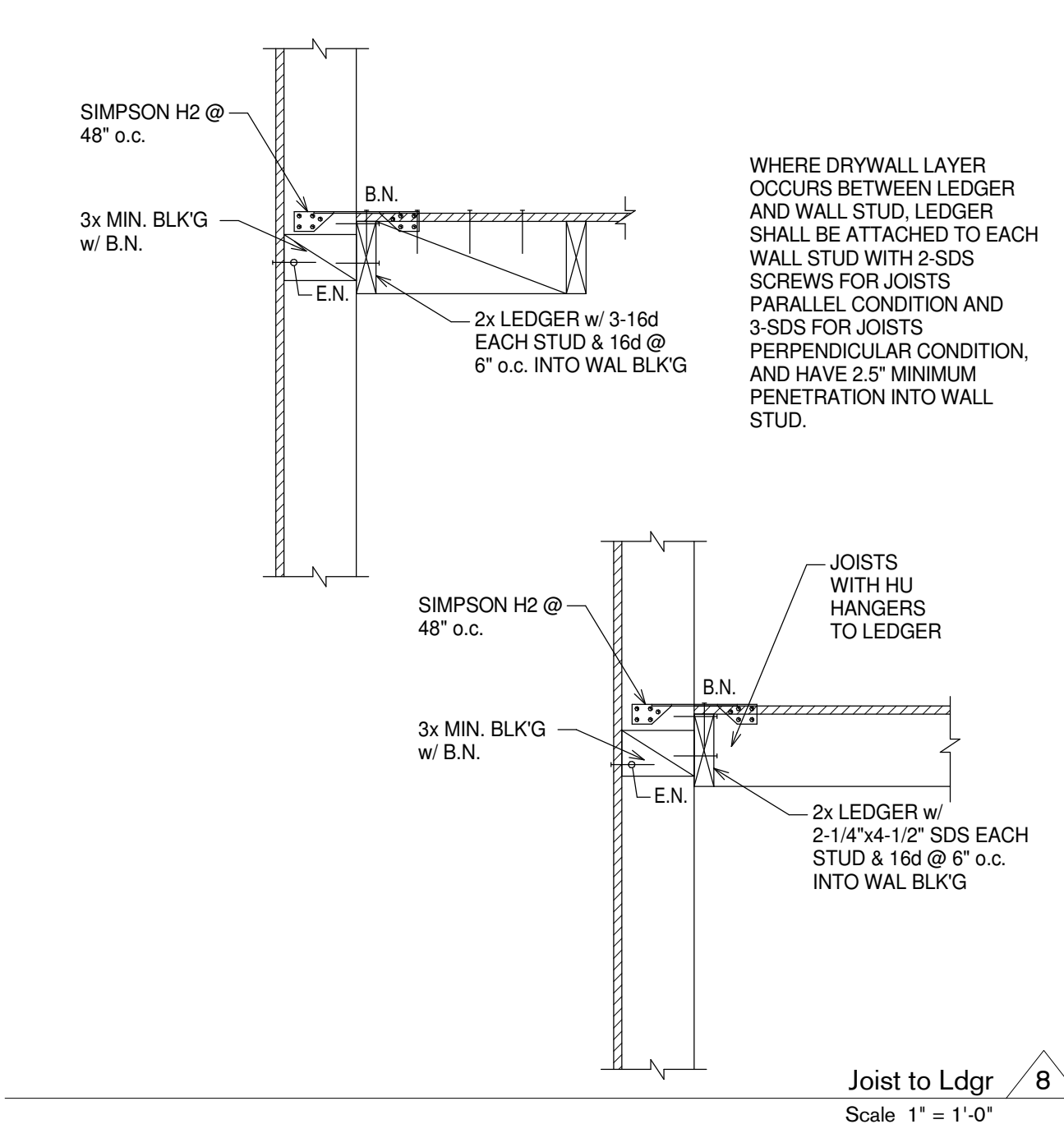
B. FJ parallel to wl



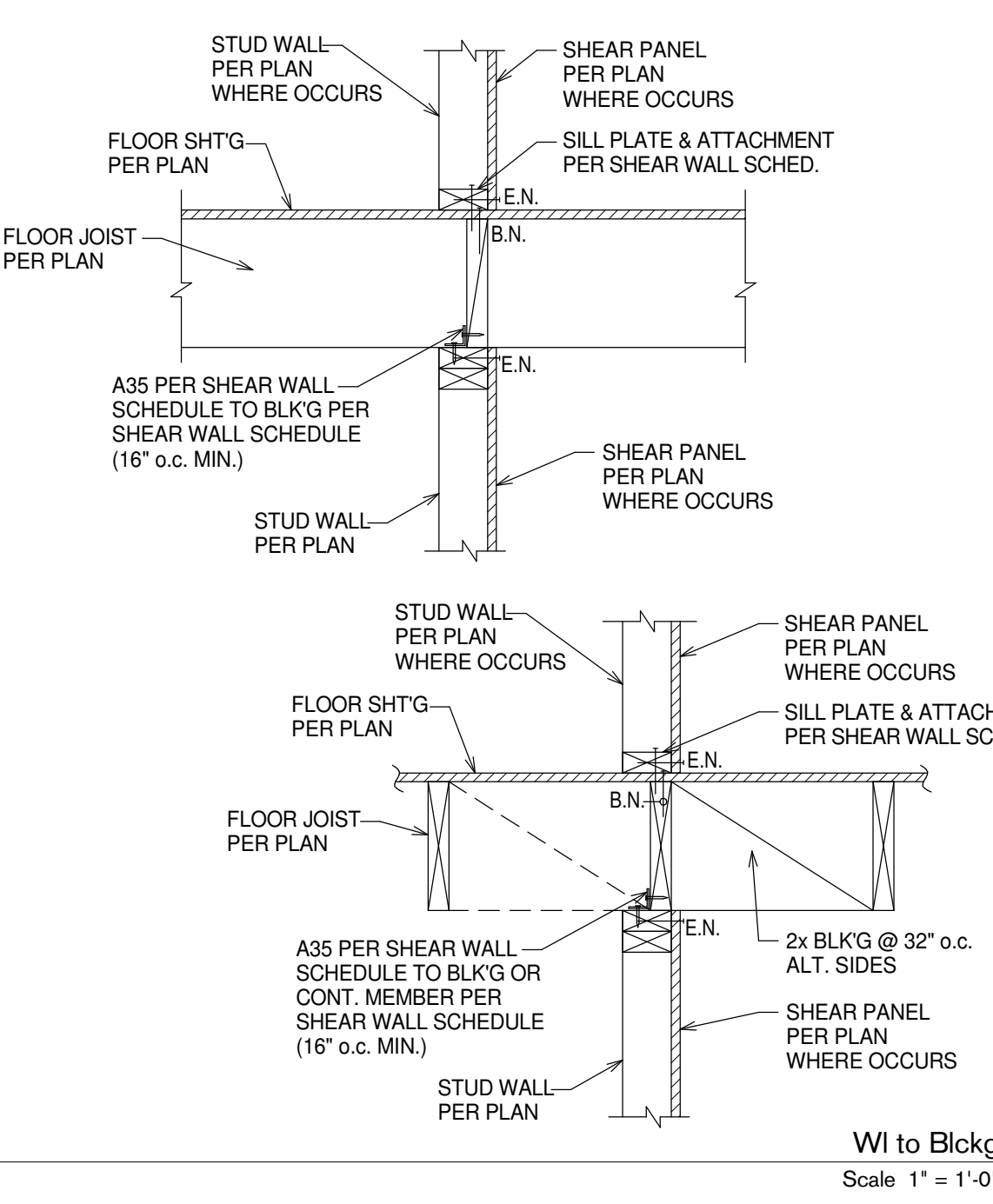
Ext Wl to Bm
Scale 1" = 1'-0"



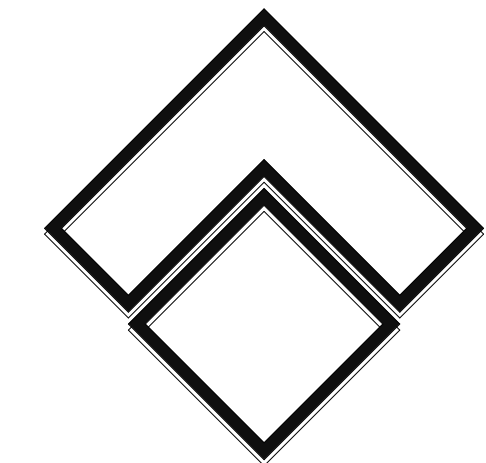
Bm in Multi-Story Opng
Scale 1" = 1'-0"



Joist to Ldgr
Scale 1" = 1'-0"



Wl to Blckg
Scale 1" = 1'-0"



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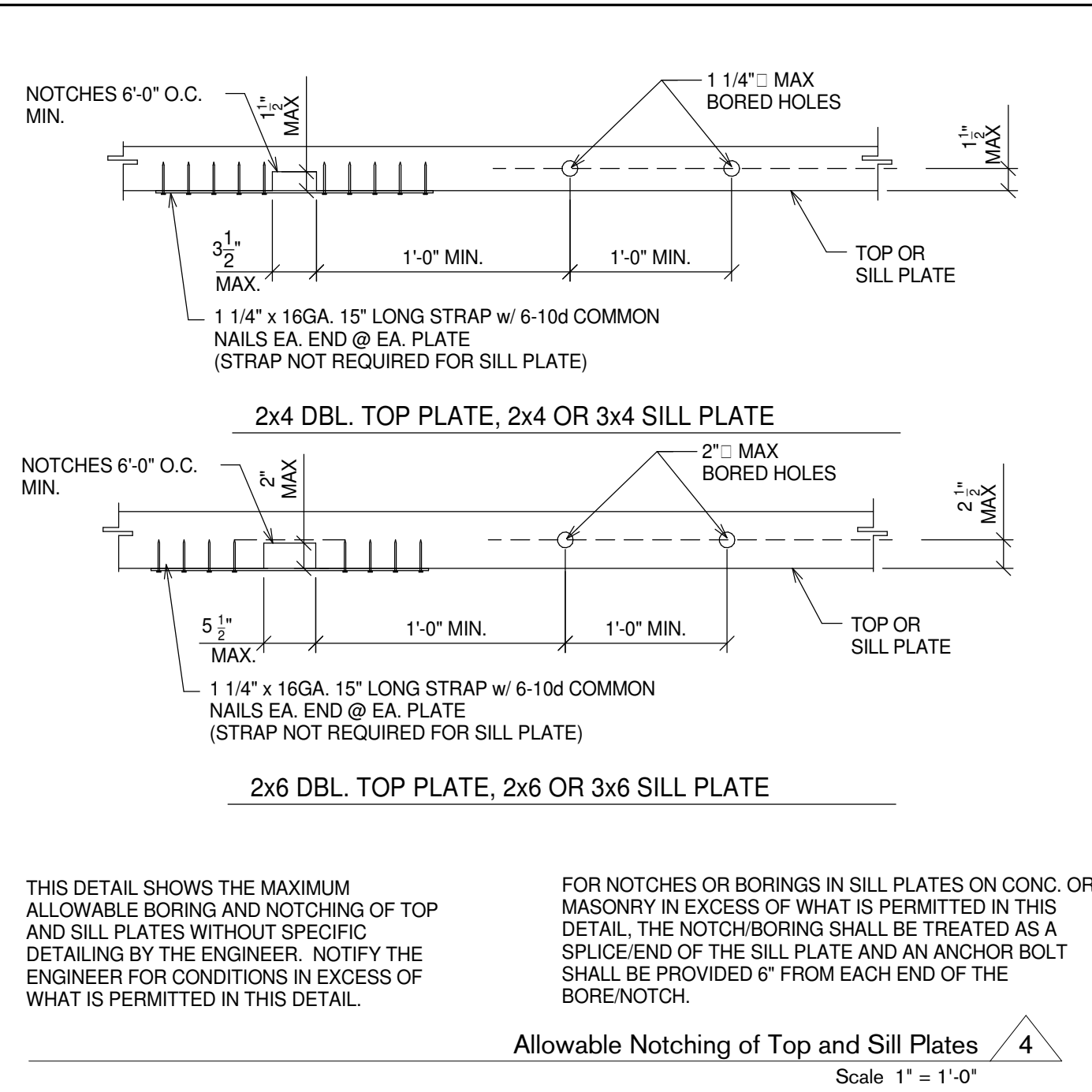
Framing Details

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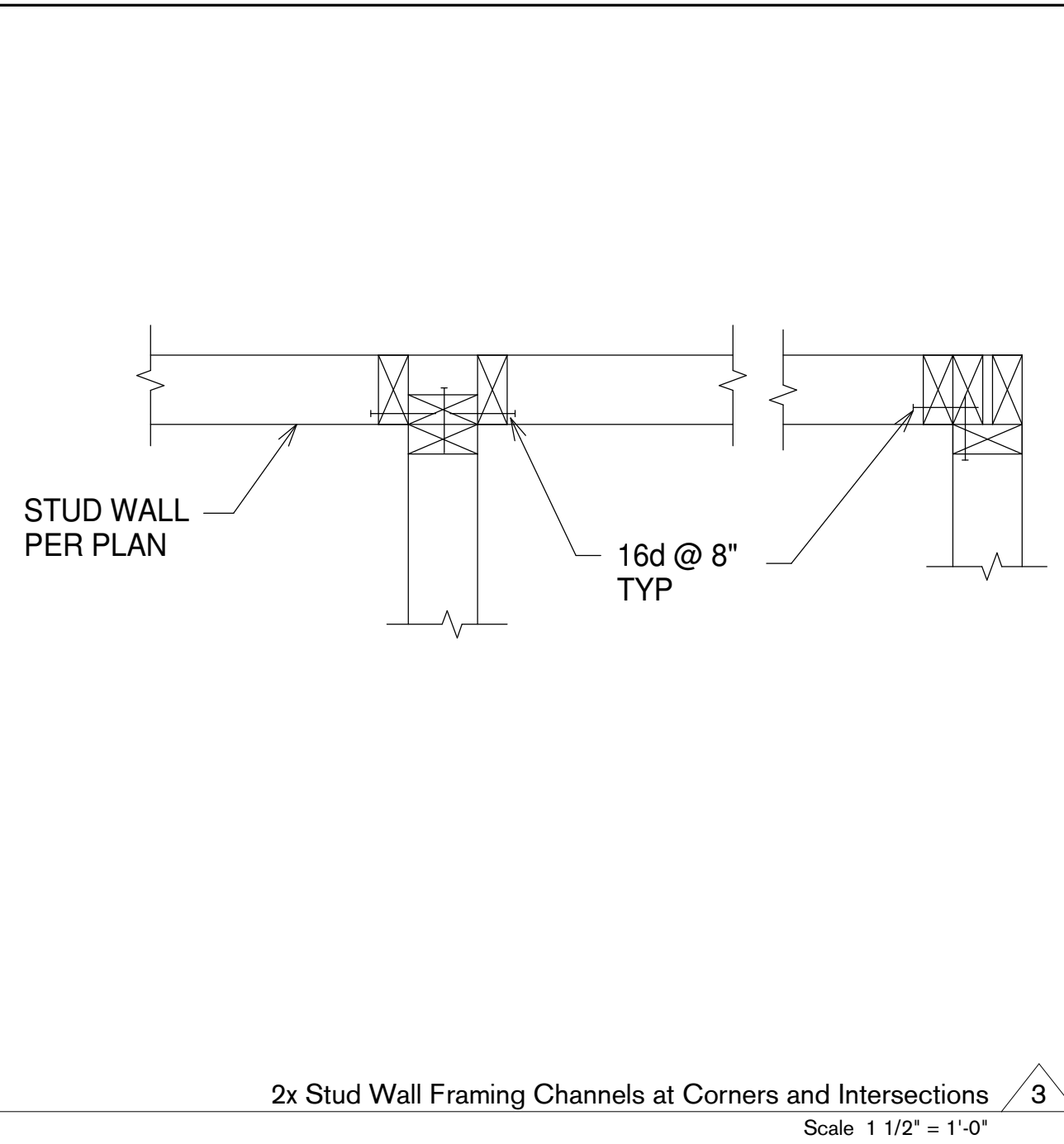
Date 04.02.2020

S3.1

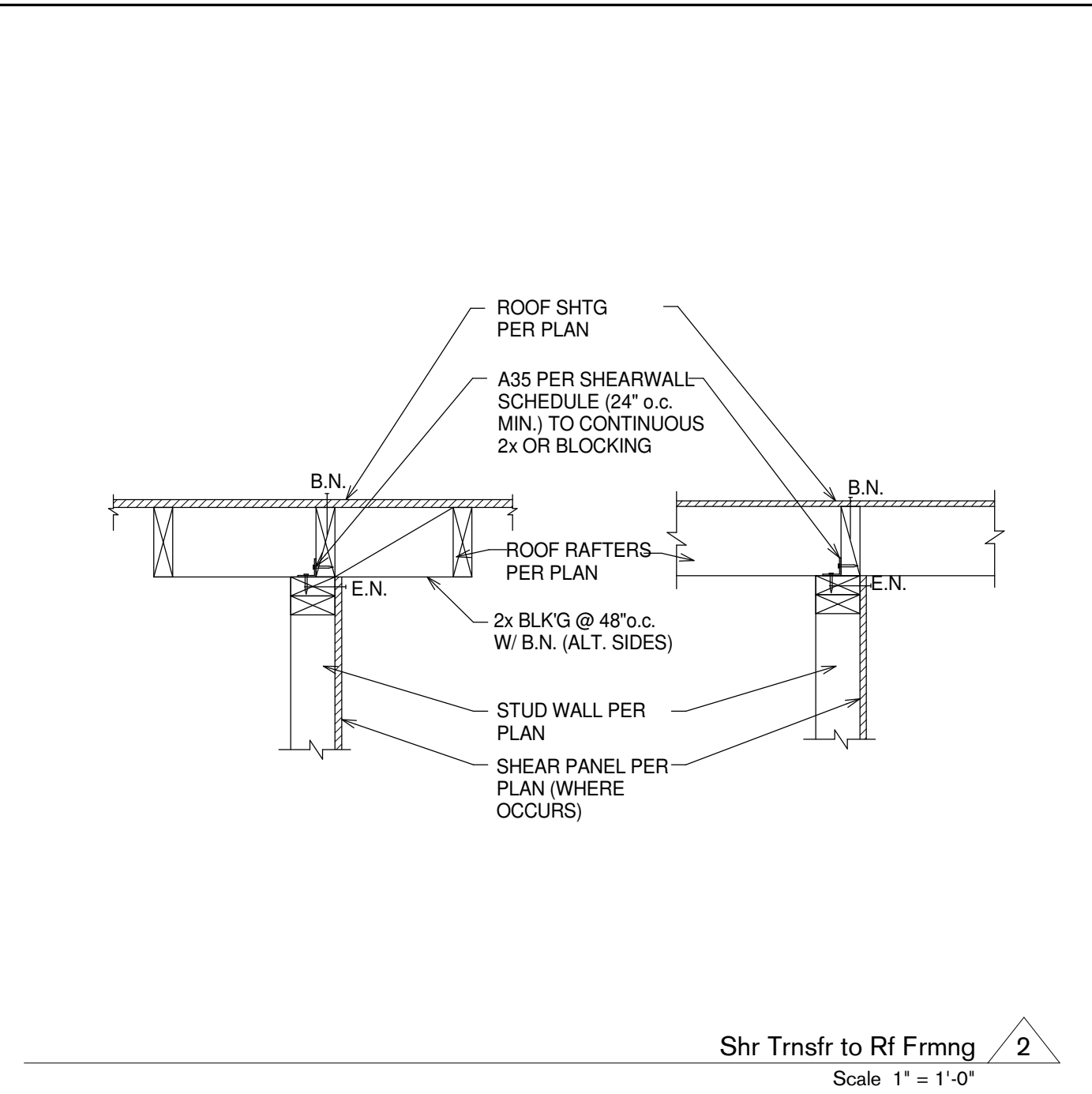
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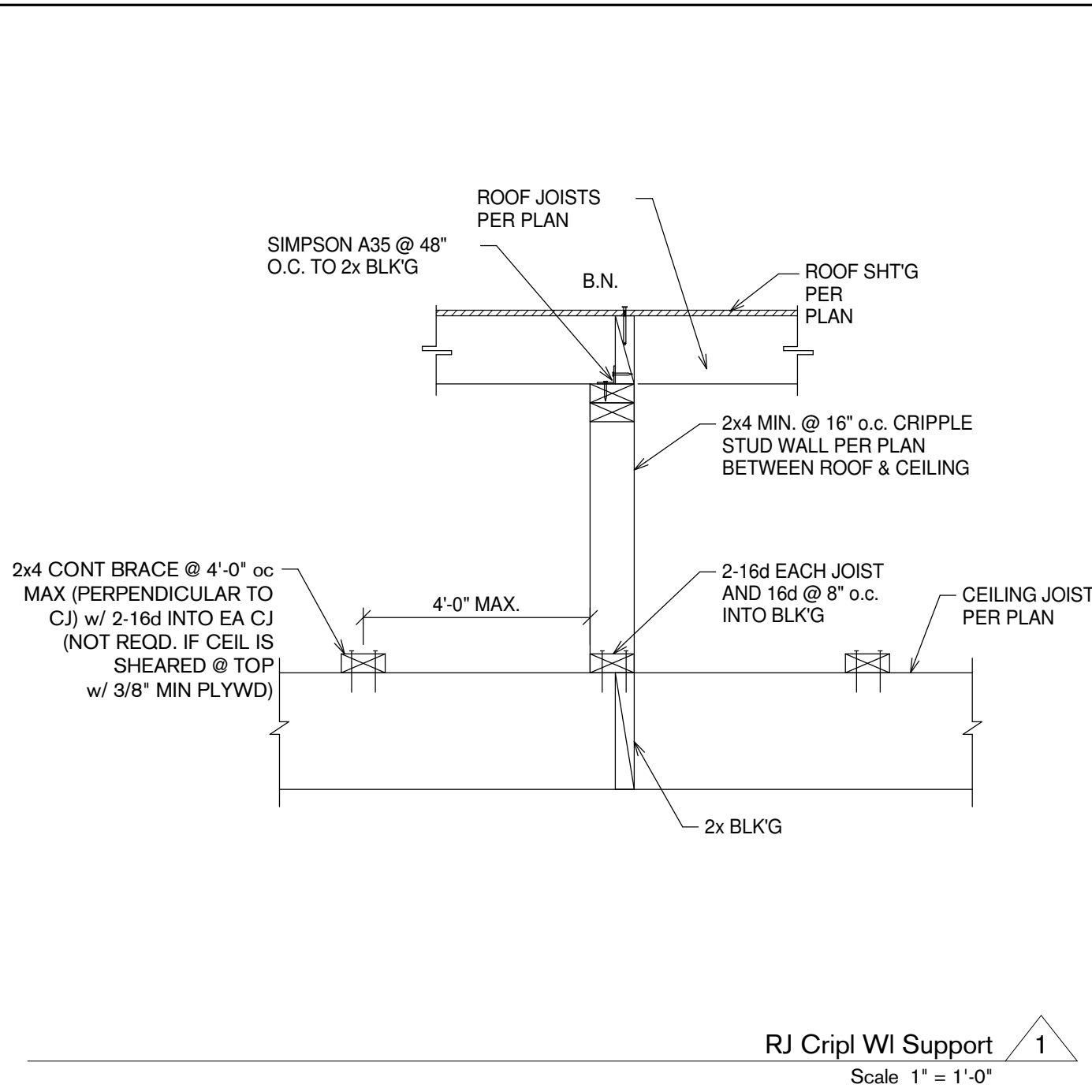
Allowable Notching of Top and Sill Plates 4
Scale 1" = 1'-0"



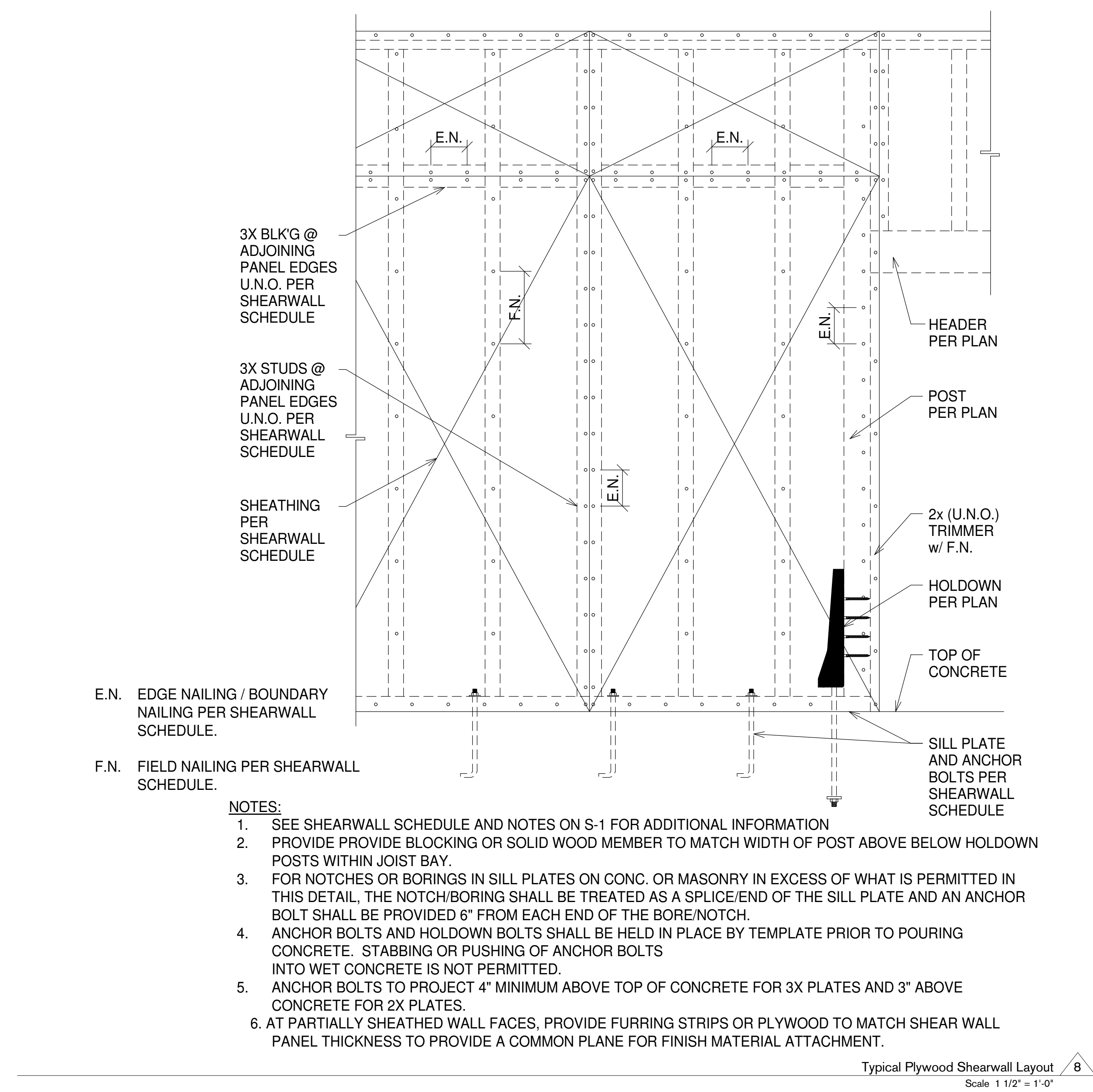
2x Stud Wall Framing Channels at Corners and Intersections 3
Scale 1 1/2" = 1'-0"



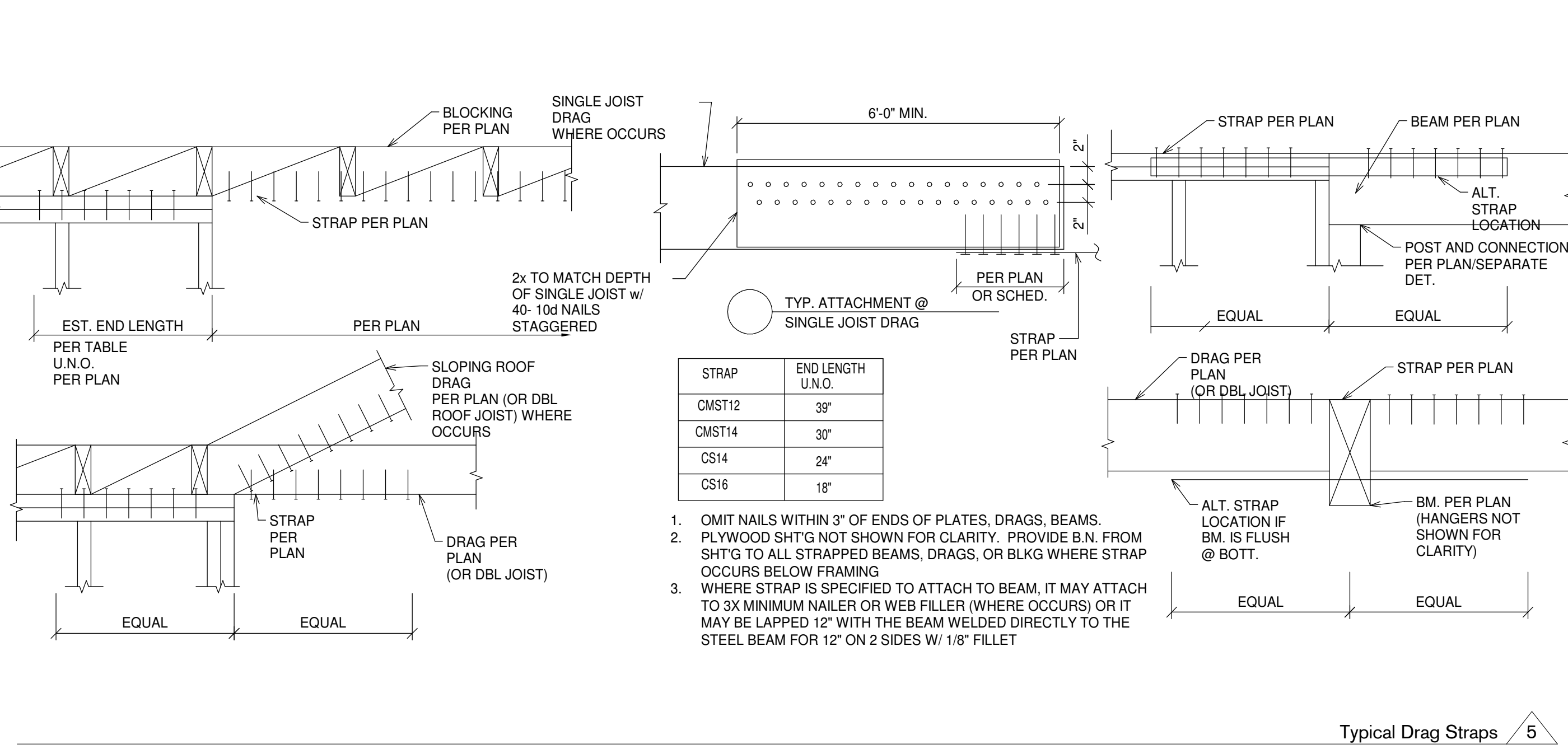
Shr Trnsfr to Rf Frmng 2
Scale 1" = 1'-0"



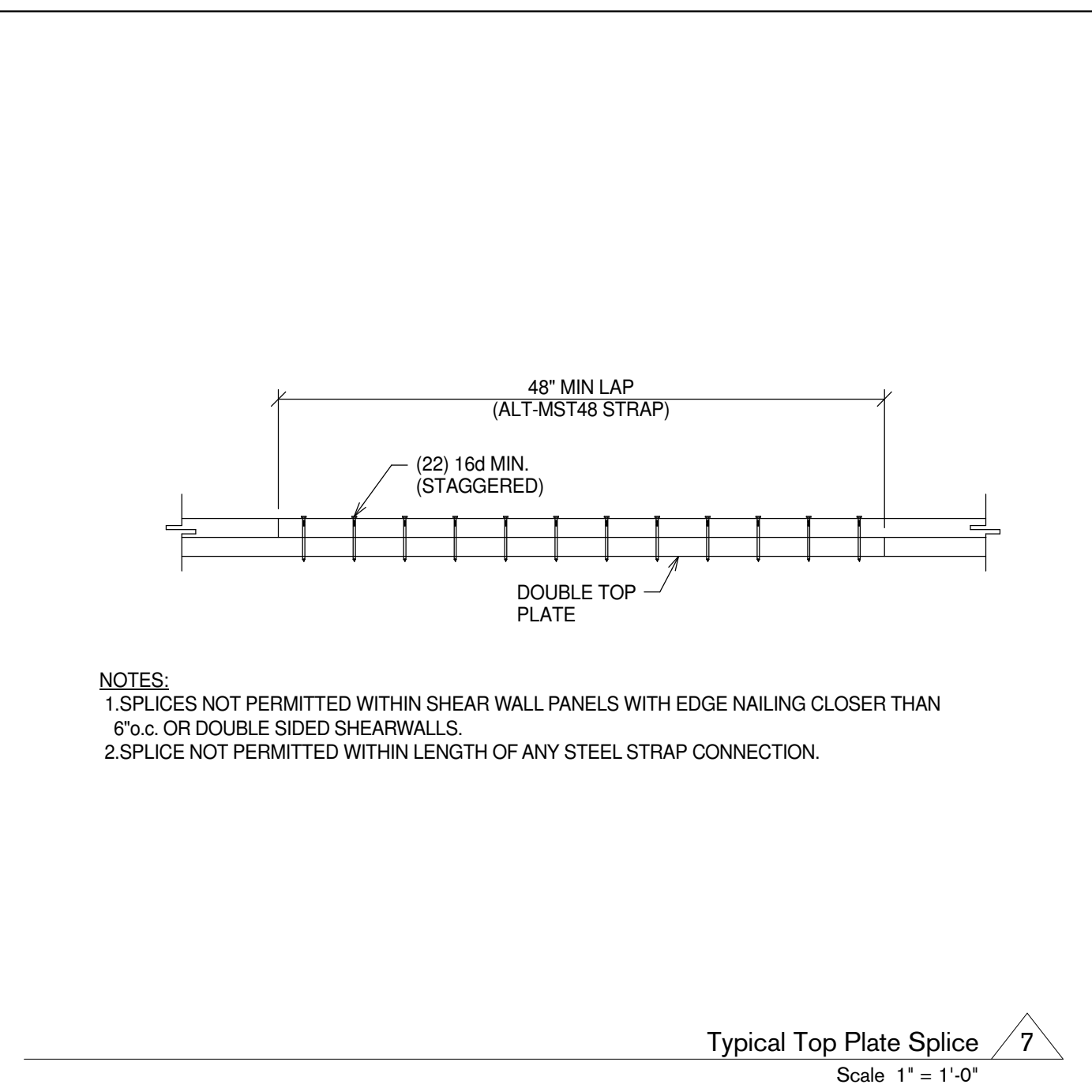
RJ Cripl Wl Support 1
Scale 1" = 1'-0"



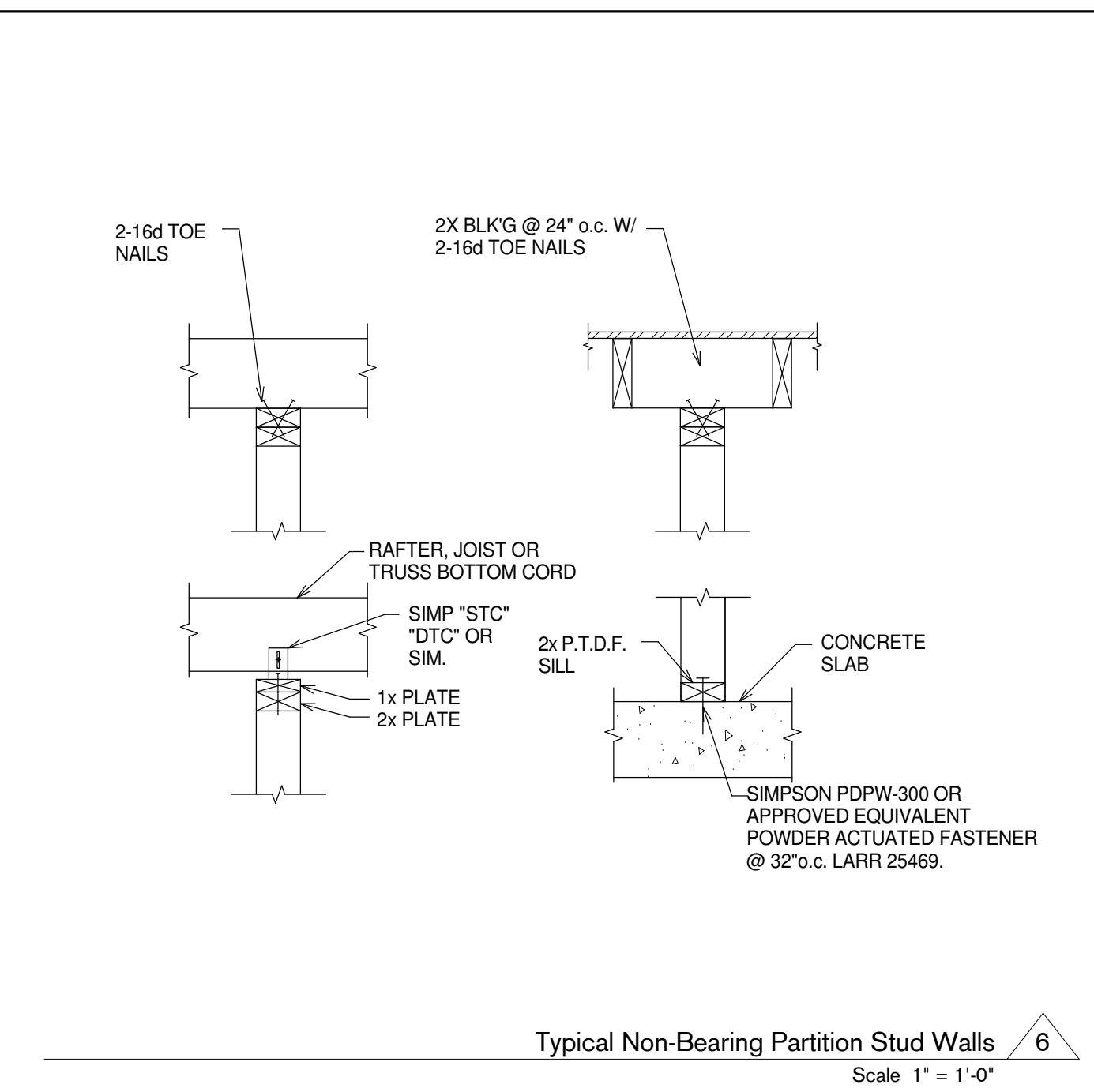
Typical Plywood Shearwall Layout 8
Scale 1 1/2" = 1'-0"



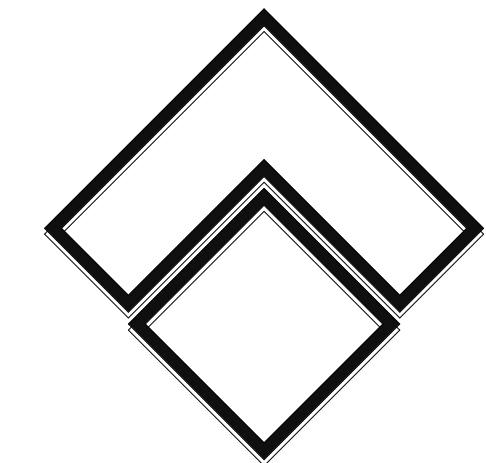
Typical Drag Straps 5
Scale 1" = 1'-0"



Typical Top Plate Splice 7
Scale 1" = 1'-0"



Typical Non-Bearing Partition Stud Walls 6
Scale 1" = 1'-0"



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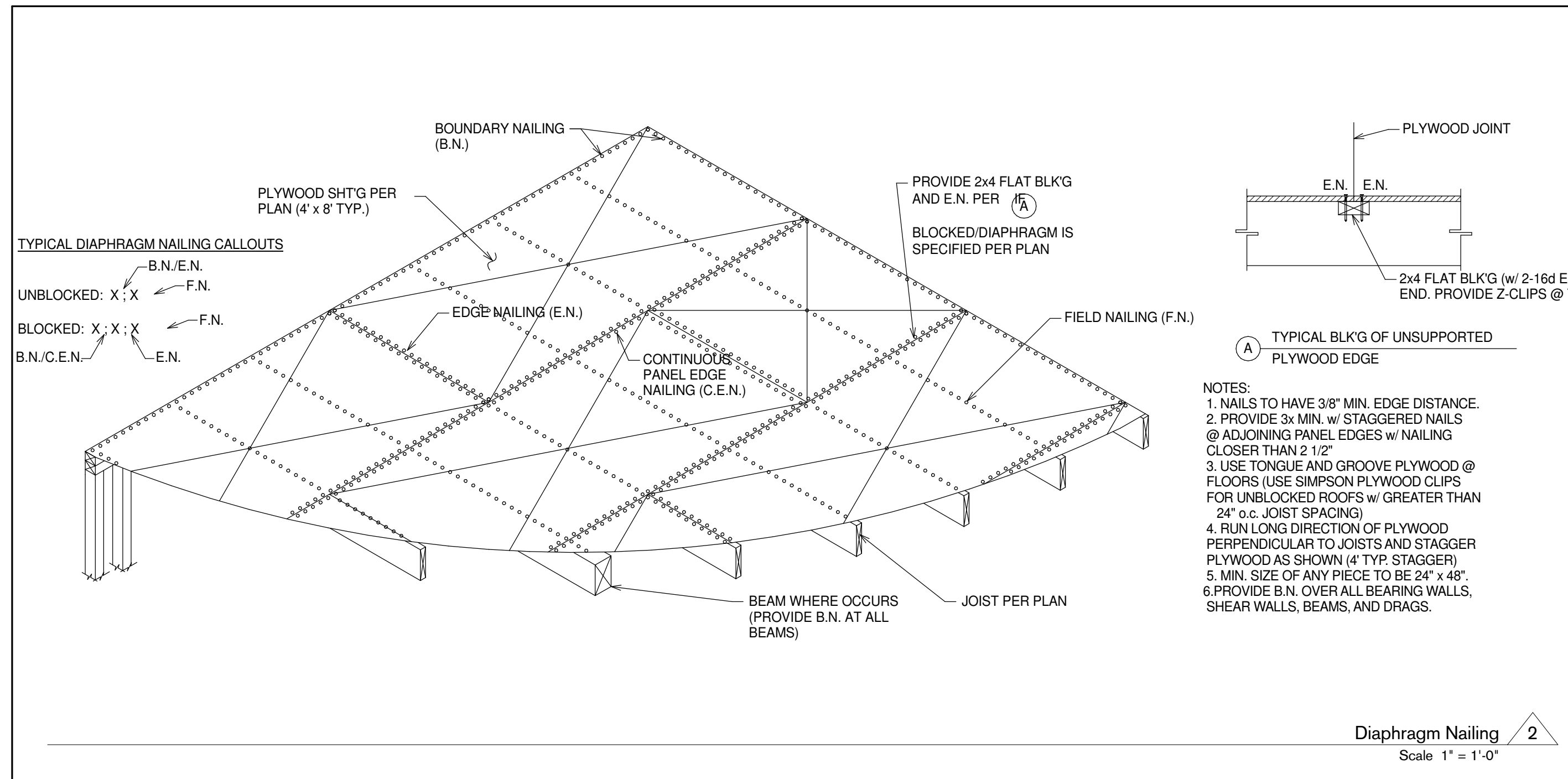
Framing & Typical Details

Drawn by Paul Boranian, Egor Shpak

Date 04.02.2020

S3.2

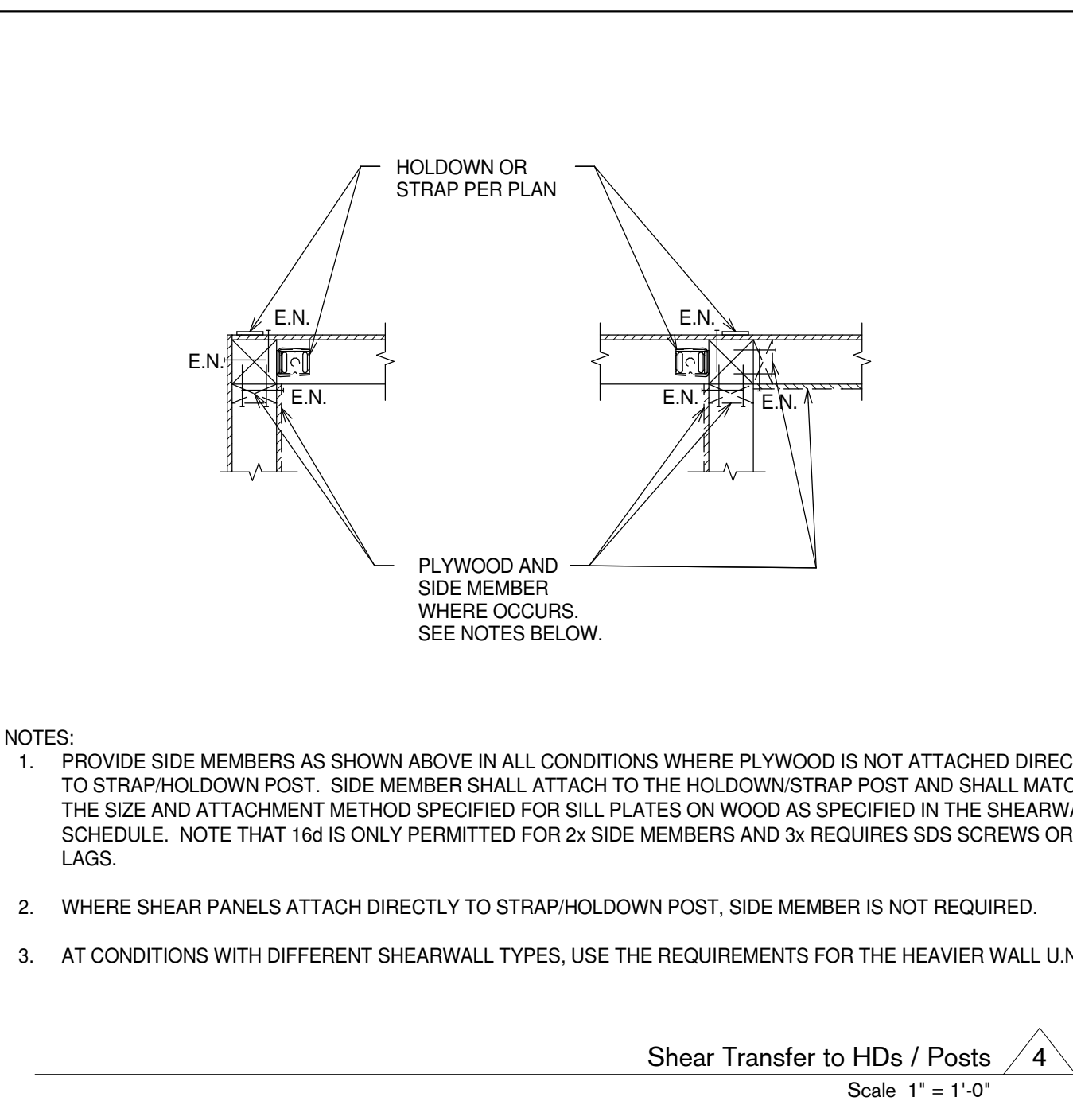
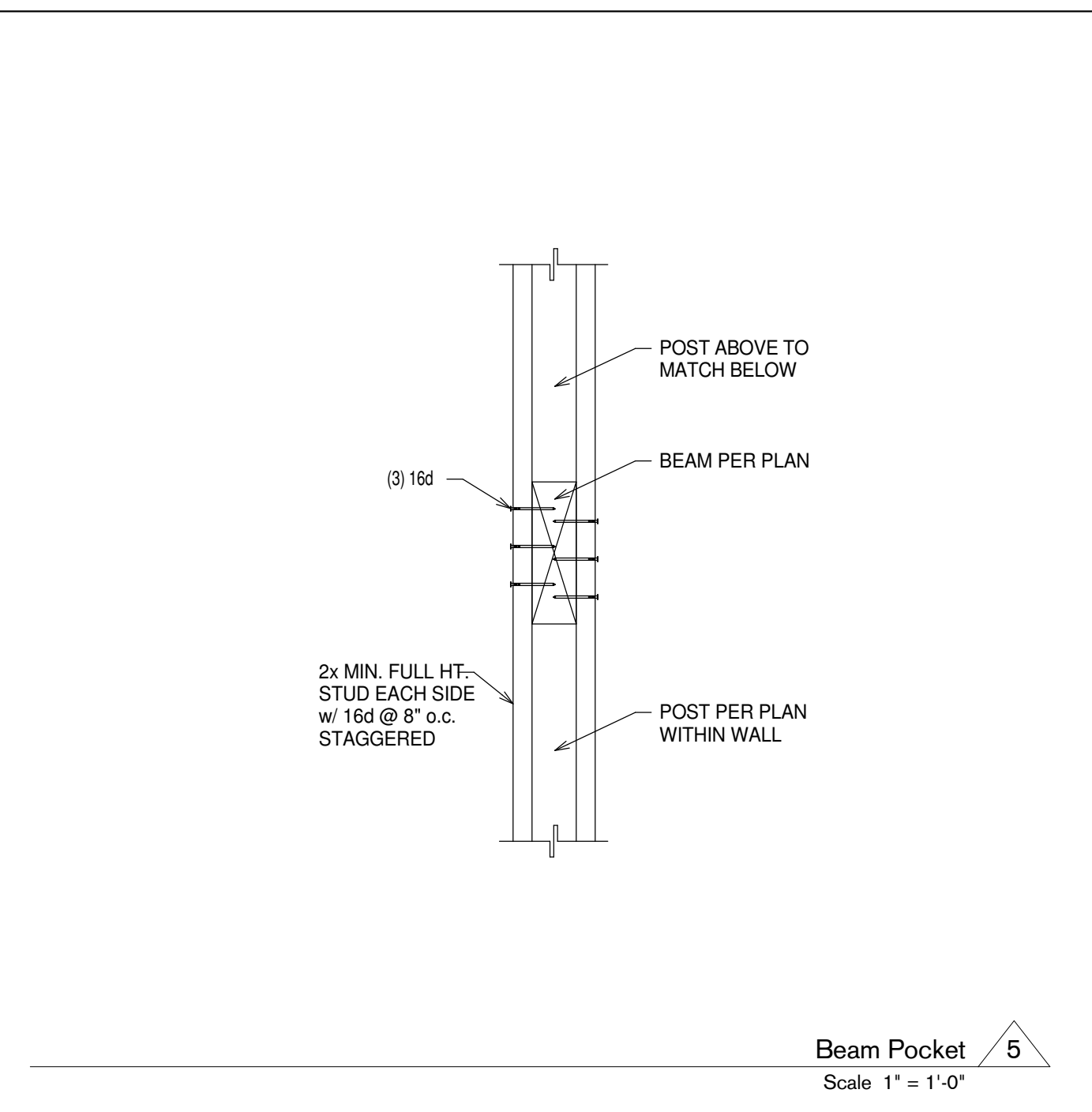
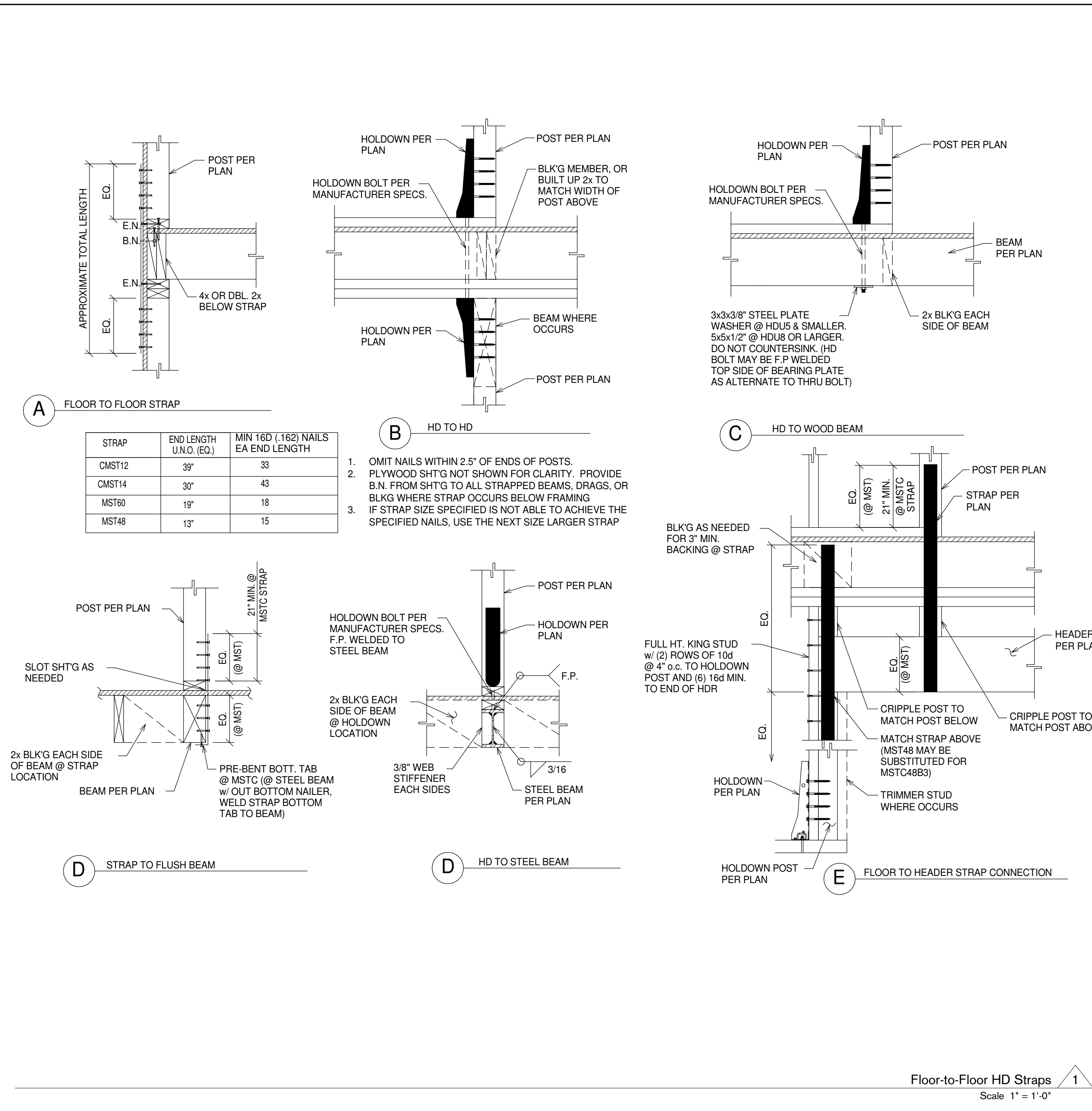
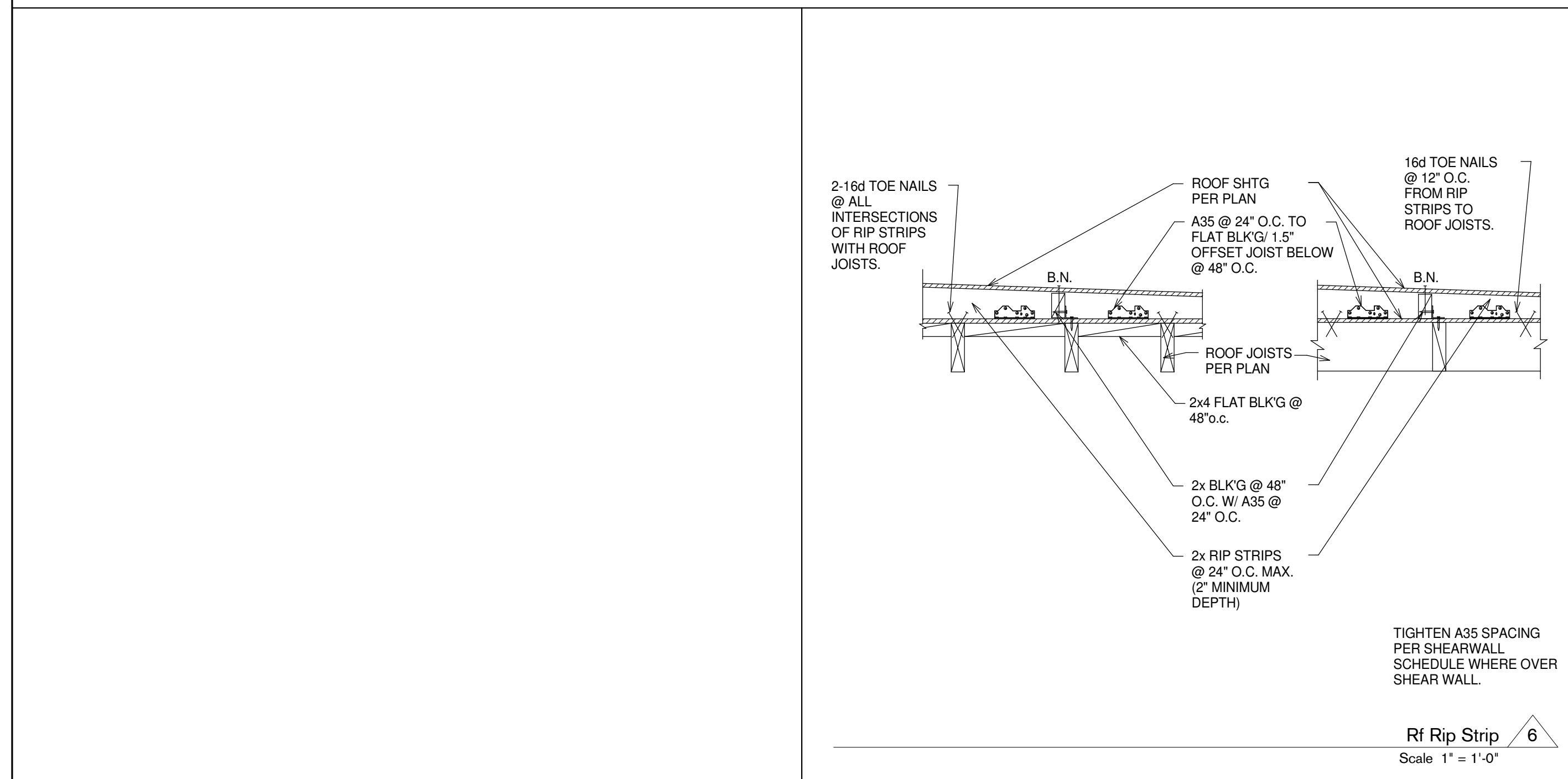
Scale As indicated



Lag Bolts 3
Scale 1" = 1'-0"

LAG DIA. "D"	Dr	LEAD HOLE	
		Ds	Dt
3/8"	.265"	3/8"	15/64"
7/16"	.328"	7/16"	9/32"
1/2"	.371"	1/2"	5/16"
5/8"	.471"	5/8"	13/32"
3/4"	.579"	3/4"	1/2"
7/8"	.683"	7/8"	39/64"

NOTES:
 1. INSTALL ALL LAGS LARGER THAN 1/4" DIAMETER INTO PRE-DRILLED LEAD HOLES (SEE SCHEDULE).
 2. PROVIDE STANDARD WASHER WHERE LAG HEAD IS BEARING ON WOOD.
 3. LAGS SHALL BE TURNED WITH A HAND WRENCH OR POWER TORQUE DRIVER (DO NOT HAMMER LAGS INTO PLACE).
 4. U.N.O. LAGS SHOULD BE FULLY THREADED FOR PORTION INTO THE SUPPORTING MEMBER.
 5. FOR FULLY THREADED LAGS, PROVIDE THE LEAD HOLE DIAMETER SPECIFIED @ THREADS FOR THE ENTIRE LENGTH.
 6. LEAD HOLE DIAMETER @ THREADS SPECIFIED IN THE TABLE IS THE RECOMMENDED LEAD HOLE DIAMETER. ACTUAL DIAMETER MAY BE 40% TO 70% OF THREADED SHANK DIAMETER.



Expansion
 Георгий Шпак | Проектировщик
 415.858.4218 | 1egorshpak@gmail.com

Owner:
 Mike Miller

Project:
 New 3-story Duplex
 6032 S Vermont Ave
 Los Angeles, CA 90044

Revisions

No.	Description	Date

Typical Details
 Drawn by Paul Boranian, Egor Shpak
 Date 04.02.2020
S3.3
 Scale 1" = 1'-0"

6/23/2020 5:09:55 AM

GENERAL REQUIREMENTS

- 1. Materials and workmanship shall comply with the 2019 version of the California Building Code (CBC), the most current amendments by the governing agency, and the most current UBC, UPC, NEC codes and their referenced standards.

FRAMING NOTES

- 1. All framing shall be performed in accordance with chapter 23 of the California Building Code, the National Design Specification for Wood Construction (NDS), and details indicated on the drawings.

STRUCTURAL OBSERVATION NOTES

- 1. Structural Observation is required for the structural system in accordance with the Information Bulletin No. P-IBC 2014-04. Structural Observation is the visual observation at the construction site of the elements and connections of the structural system at significant construction stages, and the complete structure for general conformance to the approved plans and specifications.

SHOAR WALL SCHEDULE

Table with columns for ShearWall Type, ASD Allowable Shear Capacity (q_u/1), Material, Panel Edge Nailing, SILL Plate, 5/8" Anchor Bolt Spacing, SILL Plate Nailing Spacing, SILL Plate SDS 1/4" Simpson SDS, SILL Plate Lag Bolts, 3/4" Diameter in Lieu of SDS, and Simpson ASD or LTP From Top Plate to Bilt' n R/Min.

- 1. Place studs at 16" o.c. maximum and provide 4x minimum post at each end of wall u.o.o.

DESIGN CRITERIA

Table with columns for DESIGN LOADS (Roof Dead Load, Roof Live Load, etc.), WIND CRITERIA (UL, Wind Speed, Risk Category, etc.), and SEISMIC CRITERIA (Occupancy Category, Importance Factor, etc.).

FOUNDATION DESIGN

- 1. The foundation design is based on the 2019 CBC code minimum, Bearing = 1,500 psi

REINFORCING STEEL

- 1. All reinforcing steel shall comply with ASTM A615 grade 60. Weldable reinforcing shall be ASTM A706 grade 60.

CONCRETE NOTES, CONT'D

- 12. Pipes and conduits embedded in concrete shall be subject to the approval of the structural engineer.

DEPUTY INSPECTIONS

- 1. Special inspections, corresponding reports and testing shall be provided in accordance with chapter 17 of the CBC/LABC.

STRUCTURAL STEEL

- 1. Fabrication and erection of steel shall be per the California Building Code chapter 22 and AISC 360.

CONCRETE NOTES

- 1. All concrete shall have a minimum 28 day compressive strength as noted below. All concrete with strengths higher than 2500 psi requires continuous deputy inspection during placement.

LADBS Los Angeles Regional Uniform Code Program

Committee 1-3: Structural Observation

STRUCTURAL OBSERVATION PROGRAM AND DESIGNATION OF THE STRUCTURAL OBSERVER

PROJECT ADDRESS: 6032 S Vermont Ave PERMIT APPLICATION No: Description of Work: New Duplex Addition

Owner: Mike Miller Architect: Engineer: PAUL BORANIAN

STRUCTURAL OBSERVATION (only checked items are required) Firm or Individuals to be responsible for the Structural Observation: Name: Paul Boranian Phone: (818) 429-1903 Calif. Registration No: 75003

Table with columns for FOUNDATION, WALL, FRAME, and DIAPHRAGM, listing materials like Concrete, Masonry, Steel Moment Frame, Steel Braced Frame, Concrete Moment Frame, Masonry Wall Frame, Wood, and Others.

DECLARATION BY OWNER

I, the owner of the project, declare that the above listed firm or individual is hired by me to be the Structural Observer.

DECLARATION BY ARCHITECT OR ENGINEER OR RECORD (required if the Structural Observer is different from the Architect or Engineer of Record)

I, the Architect or Engineer of record for the project, declare that the above listed firm or individual is designated by me to be responsible for the Structural Observation.

FASTENING SCHEDULE TABLE 2304.1

Table with columns for CONNECTION, FASTENING, and LOCATION, detailing requirements for joist to sill plate, bridging to joist, subfloor to joist, sole plate to joist, top plate to stud, stud to sole plate, double top plates, blocking between joist or rafters, rim joist to top plate, top plates, laps and intersections, continuous header, ceiling joists, continuous header to stud, ceiling joists, laps over partitions, ceiling joists to parallel rafters, rafter to plate, diagonal brace, built-up girder and beam, built-up joist, ledger strip, wood structural panels, subfloor, roof and wall sheathing, and interior paneling.

- For S1: 1/4" = 2.54 mm. a. Common or box nails are permitted to be used except where otherwise stated.

MASONRY

- 1. All masonry shall have a minimum compressive strength f'm of 1500psi u.o.o. (assembly strength)



Owner:

Mike Miller

Project:

New 3-story Duplex 6032 S Vermont Ave Los Angeles, CA 90044

Revisions

Table with columns No., Description, and Date for revisions.

Structural Notes

- 1. All masonry shall have a minimum compressive strength f'm of 1500psi u.o.o. (assembly strength)

Drawn by Paul Boranian, Egor Shpak

Date: 04.03.2020

Scale