

SHEAR WALL MARK	SHEATHING	NAILING (1),(2),(3),(4),(5),(6)		BLOCKED PANEL EDGES	ASD ALLOW. CAPACITY (W/ NO WINDLOAD INCREASE)	BASE PLATE NAILING	SILL PLATE ANCHORAGE (7)(10)(11)			
		EDGE NAILING	FIELD NAILING				RECOMMENDED	ALTERNATE		
A(9)	7/16" PLYWOOD OR OSB	8d @ 2" oc	8d @ 12" oc	YES	588 PLF	2" oc	1/2" DIA @ 14" oc	1/2" DIA x 2-1/4" EMBED @ 14"	-	12" o.c.
B	5/8 INCH GYPSUM WALLBOARD OR GYPSUM SHEATHING	8d @ 3" oc	8d @ 12" oc	YES	451 PLF	2" oc	1/2" DIA @ 20" oc	1/2" DIA x 2-1/4" EMBED @ 20"	-	16" o.c.
C		8d @ 4" oc	8d @ 12" oc	YES	350 PLF	3" oc	1/2" DIA @ 24" oc	1/2" DIA x 2-1/4" EMBED @ 24"	-	20" o.c.
D		8d @ 6" oc	8d @ 12" oc	YES	238 PLF	4" oc	1/2" DIA @ 24" oc	1/2" DIA x 2-1/4" EMBED @ 24"	-	24" o.c.
L		8d @ 7" oc	8d @ 7" oc	NO	106 PLF	6" oc	1/2" DIA @ 24" oc	1/2" DIA x 2-1/4" EMBED @ 24"	24" oc	72" o.c.
F		8d @ 7" oc	8d @ 4" oc	NO	133 PLF	4" oc	1/2" DIA @ 24" oc	1/2" DIA x 2-1/4" EMBED @ 24"	20" oc	60" o.c.
H		8d @ 4" oc	8d @ 4" oc	YES	161 PLF	4" oc	1/2" DIA @ 24" oc	1/2" DIA x 2-1/4" EMBED @ 24"	16" oc	48" o.c.

- FOOTNOTES:
- (1) WHERE SHEAR PANELS ARE SPECIFIED ON BOTH FACES OF A SHEAR WALL AND NAIL SPACING IS LESS THAN 6" O.C. ON EITHER SIDE, PANEL JOINTS SHALL BE OFFSET FROM ALL DIFFERENT FRAMING MEMBERS OR FRAMING SHALL BE 3" NOMINAL (2-2x STUDS) OR WIDER AND NAILS ON EACH SIDE SHALL BE STAGGERED.
 - (2) NAIL REQUIREMENT: INTERIOR 5/8" GYPSUM REQUIRES 6d COOLER NAILS (0.092" DIA, 1-7/8" LONG, 1/4" HEAD) OR WALLBOARD NAILS (0.0915" DIA, 1-7/8" LONG, 19" HEAD).
 - (3) NAIL REQUIREMENT: ALL EXTERIOR SHEATHING SHALL BE FASTENED WITH CORROSION RESISTANT NAILS.
 - (4) NAIL REQUIREMENT: ALL PLYWOOD AND OSB SHEATHING SHALL BE FASTENED WITH COMMON OR GALVANIZED BOX NAILS. SEE FASTENER SCHEDULE FOOTNOTES ON DWG S0.1 FOR MINIMUM NAIL DIMENSIONS. NO SUBSTITUTIONS SHALL BE MADE W/O APPROVAL FROM ENGINEER OF RECORD.
 - (5) DRYWALL SCREWS ARE PERMITTED AS A SUBSTITUTE FOR 6d COOLER NAILS AS LONG AS THE DIMENSIONS OF THE DRYWALL SCREW ARE NOT LESS THAN THE DIMENSIONS OF THE 6d COOLER NAIL THEY ARE REPLACING.
 - (6) END JOINTS OF ADJACENT COURSES OF GYPSUM BOARD SHALL NOT OCCUR OVER THE SAME STUD.
 - (7) REDUCE SPACING BY 1/2" WHEN SHEAR WALL TYPES ARE SPECIFIED ON BOTH SIDES OF WALL.
 - (8) SPACING BASED ON SOUTHERN YELLOW PINE (SYP) SPECIES PLATE MATERIAL.
 - (9) FRAMING AT ADJOINING PANEL EDGES SHALL BE 3" NOMINAL OR WIDER, AND NAILS AT ALL PANEL EDGES SHALL BE STAGGERED. AT THE CONTRACTOR'S OPTION, (2) 2x STUDS FASTENED TOGETHER WITH 10d NAILS x 3" LONG @ 4" OC EACH FACE STAGGERED MAY BE USED IN LIEU OF 3" NOMINAL OR WIDER MEMBERS.
 - (10) PLATE WASHER REQUIREMENT: FOUNDATION ANCHOR BOLTS SHALL HAVE A STEEL PLATE WASHER UNDER EACH NUT NOT LESS THAN 0.22"x3"x3" IN SIZE UNO. THE HOLE IN THE PLATE WASHER SHALL BE PERMITTED TO BE DIAGONALLY SLOTTED WITH A WIDTH OF UP TO 3/16" LARGER THAN THE BOLT DIAMETER AND SET LENGTH NOT TO EXCEED 1 1/4", PROVIDED A STANDARD CUT WASHER IS PLACED BETWEEN THE WASHER AND NUT.
 - (11) PLATE WASHER REQUIREMENT: THE PLATE WASHER SHALL EXTEND TO WITHIN 1/2" OF THE EDGE OF THE BOTTOM PLATE ON THE SIDE(S) WITH SHEATHING.

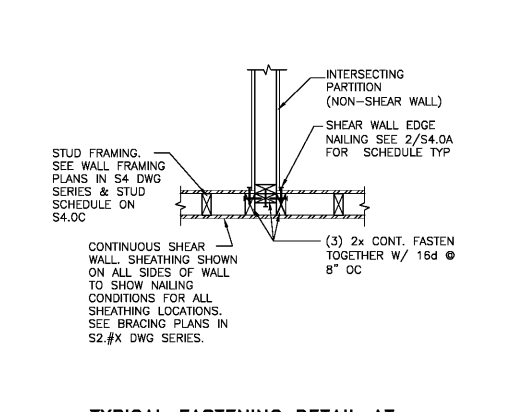
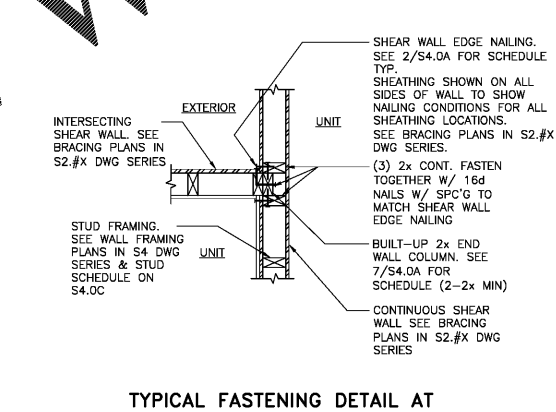
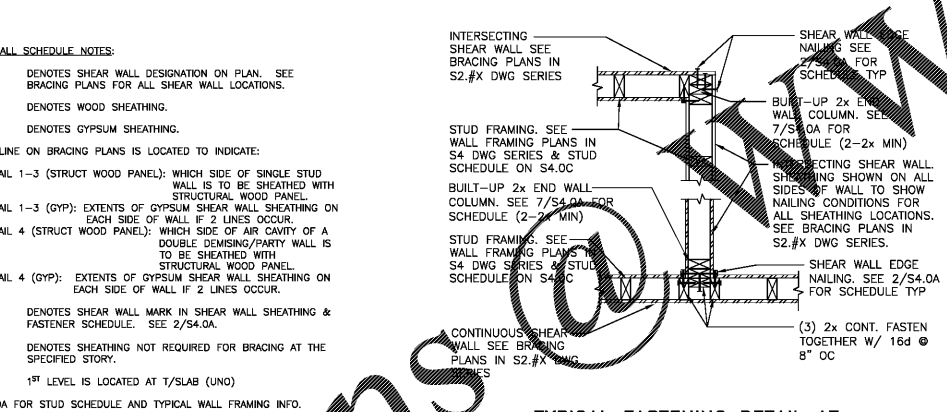
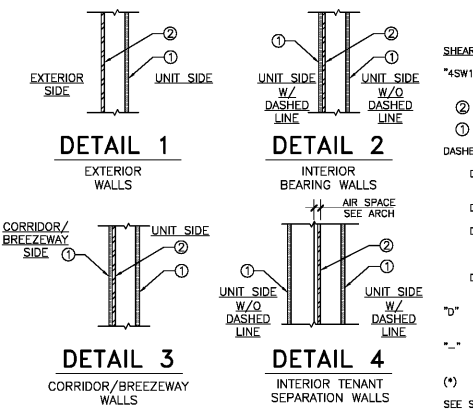
ALL-STORY SHEAR WALL SCHEDULE

LEVEL	PLAN & DETAIL MARK							
	SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8
1-STORY								
2-STORY								
3-STORY								
4-STORY								
1 ST LEVEL*								
2 ND LEVEL								
3 RD LEVEL								
4 TH LEVEL								
1 ST LEVEL*								
2 ND LEVEL								
3 RD LEVEL								
4 TH LEVEL								
1 ST LEVEL*								

1A TYPICAL SOLID SHEAR WALL ELEVATION
SCALE: NTS

1B TYPICAL EXTERIOR PERFORATED SHEAR WALL ELEVATION
SCALE: NTS

2 SHEAR WALL SHEATHING & FASTENER SCHEDULE
SCALE: NTS



3 SHEAR WALL SCHEDULE & DETAILS
SCALE: NTS

4 TYPICAL FASTENING DETAIL AT INTERSECTING SHEAR WALLS
SCALE: NTS

5 TYPICAL FASTENING DETAIL AT PARTITION WALL INTERSECTION
SCALE: NTS

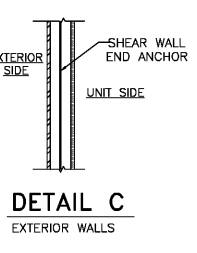
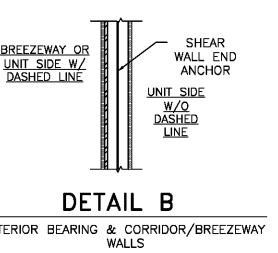
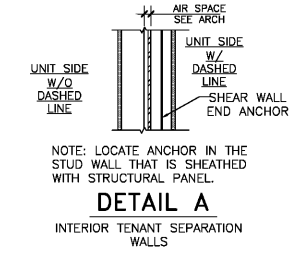
6 TYPICAL FASTENING DETAIL AT PARTITION WALL INTERSECTION
SCALE: NTS

SHEAR WALL BUILT-UP END WALL COLUMN SCHEDULE

WALL TYPE	MAX WALL HEIGHT	MIN END WALL COLUMN	C1	C2	C3	C4
INTERIOR	UP TO 9'-1 1/2" PLT	MIN END WALL COLUMN	4-2X4 OR 6-2X6	4-2X4 OR 6-2X6	4-2X4 OR 6-2X6	4-2X4 OR 6-2X6
EXTERIOR	UP TO 9'-1 1/2" PLT	MIN END WALL COLUMN	4-2X4 OR 6-2X6	4-2X4 OR 6-2X6	4-2X4 OR 6-2X6	4-2X4 OR 6-2X6

SHEAR WALL ANCHORAGE LOAD SCHEDULE

LEVEL	PLAN MARK	ANCHORAGE LOADS											
		A1		A2		A3		A4		A5		A6	
1-STORY	2-STORY	3-STORY	4-STORY	COMP	TENS	COMP	TENS	COMP	TENS	COMP	TENS	COMP	TENS
1 ST LEVEL*	2 ND LEVEL	3 RD LEVEL	4 TH LEVEL	C1	1.9K	C1	1.9K	C1	1.9K	C1	1.9K	C2	3.2K
1 ST LEVEL*	2 ND LEVEL	3 RD LEVEL	4 TH LEVEL	C1	1.9K	C1	2.9K	C1	2.9K	C1	3.1K	-	-
1 ST LEVEL*	2 ND LEVEL	3 RD LEVEL	4 TH LEVEL	C1	2.0K	C2	3.5K	C2	4.3K	C2	6.0K	-	-
1 ST LEVEL*	2 ND LEVEL	3 RD LEVEL	4 TH LEVEL	C2	3.9K	C2	6.7K	C2	7.4K	C3	10.0K	-	-



- NOTES:
1. AT ONE ANCHOR CONDITION, PLACE HALF THE NUMBER STUDS SPECIFIED A MIN OF 3" CLR AND MAX OF 6" CLR ON EACH SIDE OF ANCHOR WITHIN SHEAR WALL EXTENTS.
 2. AT TWO ANCHOR CONDITION, PLACE HALF THE NUMBER STUDS SPECIFIED A MIN OF 3" CLR FROM THE FIRST ANCHOR AND THE REMAINING STUDS A MIN OF 3" CLR FROM THE SECOND ANCHOR. END WALL COLUMNS SHALL NOT BE PLACED MORE THAN 18" APART.
 3. NUMBER OF STUDS LISTED ABOVE INCLUDES THE TWO 2x BRIDGE TRIMMERS SPECIFIED IN DETAIL 1A/S4.0A.

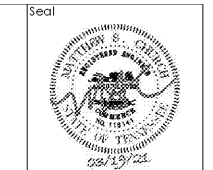
- NOTES:
- TENS: DENOTES TENSION FORCE REQUIRED FOR SHEAR WALL END ANCHORAGE DESIGN.
 - COMP: DENOTES COMPRESSION FORCE AT SHEAR WALL ENDS. SEE END WALL COLUMN SCHEDULE FOR REQUIRED BUILT-UP 2x COLUMNS.
 - (*) 1ST LEVEL IS LOCATED AT T/SLAB (UNO)

SHEAR WALL ANCHORAGE FOOTING SCHEDULE

PLAN MARK	ANCH. MARK (RUN TYPE)	DIMENSIONS	REINFORCEMENT
T56	4A3, 3A3, 3A4	6'-0" x 6'-0" x 14"	6#5 E.W. T&B

NOTES: SEE DETAIL X/S6.X FOR ADDITIONAL INFORMATION AT SHEAR WALL ANCHORAGE FOOTINGS.

7 SHEAR WALL END ANCHORAGE SCHEDULE, DETAILS & NOTES
SCALE: NTS



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Project: 1920.00
CADD File:
Drawn By: AVG
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May 15, 2020
Construction Release Set:
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Revisions
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ASI / RFI Revisions
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Borough 33
an Apartment Community by
33 Broad MF, LLC
in Chattanooga, Tennessee

Drawing Title:
SHEAR WALL ANCHORAGE
DETAILS & SCHEDULES

S4.0a

ISSUED FOR CONSTRUCTION