## STRUCTURAL LEGEND:

- DETAIL REFERENCE (S2.3)
- STRUCT. NOTE (1)
- HEAT PUMP UNIT
- FIRE WALL/FIRE BARRIER HORIZONTAL EXIT
- WOOD COLUMN DESIGNATION
- TUBE STEEL COLUMN DESIGNATION
- C2 COLUMN REF. / P1 COLUMN PAD TAG
- F-1 FOOTING TAG
- SHEARWALL ON WALL SHOWN / SHEAR PANEL ON DASHED SIDE
- HOLDOWN REF. SYSTEM REFERENCE (SEE S2.7a & S2.7b) SEE DETAILS 10,17/S2.2 FOR FTG (11)

SUBSCRIPTS:
WB - STARTS AT WOOD BEAM
SB - STARTS AT STEEL BEAM

HOLDOWN REFERENCE(SEE 1/S2.4)
S = SINGLE CS16x49" LONG STRAP w/ (22) 10d PER STRAP
S2 = DBL. CS16x49" LONG STRAP w/ (22) 10d PER STRAP
S3 = TRIPLE CS16x49" LONG STRAP w/ (22) 10d PER STRAP
S4 = TRIPLE CS14x57" LONG STRAP w/ (30) 10d PER STRAP

- 2x6 AT 16" O.C. BEARING WALL U.N.O.
- 2x8 BEARING WALL PER PLAN
- 2x10 AT 24" O.C. BEARING WALL
- HALF HIGH WALL PER PLAN
- STRUCT MEMBER (SEE BELOW) R = RAFTERS, J = FLOOR JOISTS, CJ = CEILING JOISTS
- J-1 / R-1 FRAMING DIRECTION, FRAMING TYPE
- EXTENT OF FRAMING
- SINGLE JOIST / TRUSS
- DBL. JOIST / VLY. TRUSS HIP TRUSS / GIRDER TRUSS

## ZONE 4 HOLDOWN SCHEDULE

| QC | THIRD FLOOR | SECOND FLOOR | FIRST FLOOR | A307 BOLT DIA. (UNO) | EMBED. DEPTH | CONC. PAD (WXWXD) |
|---|---|---|---|---|---|---|
| 11A | | | 3610 | 3/4" | 10-1/2" | NO PAD |
| 11 | | | 9000 | 3/4" | 10-1/2" | 54x54x24 W/(7)#5 E.W |
| 13 | | | 17082 | 1" | 15-1/2" | 90x90x24 W/(11)#4 E.W TOP & BTM. |
| 21 | | 6100 | 6100 | 5/8" | 10-1/2" | 42x42x18 W/(8)#4 E.W |
| 23 | | 12000 | 17500 | 1-1/8" | 13-1/2" | 102x102x24 W/(8)#5 E.W TOP & BTM. |
| 31 | 6100 | 6100 | 6100 | 5/8" | 10-1/2" | 42x42x18 W/(8)#4 E.W |
| 33 | 6000 | 12000 | 17500 | 1-1/8" | 13-1/2" | 102x102x24 W/(8)#5 E.W TOP & BTM. |
| 35 | 12000 | 20000 | 21875 | * 1-1/4" | 16-7/8" | 108x108x30 W/(11)#5 E.W TOP & BTM. |

-HOLDOWN NOTES EMBEDMENT DEPTHS ARE CALCULATED FOR THE SIMPSON SET-XP EPOXY SYSTEM. ALL OTHER EPOXY SYSTEMS SHALL BE APPROVED BY THE ARCHITECT or ENGINEER BEFORE INSTALLATION.

-ARCHITECT TO RECEIVE WRITTEN CONFIRMATION THAT HOLDOWNS ARE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS.

-EMBEDMENT DEPTH IS REQUIRED DEPTH MEASURED FROM TOP OF CONCRETE PAD. (EXCLUDE SLAB AND STEMWALL DEPTH)..

-CONCRETE PAD DIMENSIONS SHALL ACHIEVE 100% STRENGTH WITHOUT USING EDGE REDUCTION FACTORS TO ACHIEVE DESIGN UPLIFT (TENSILE) RESISTANCE OF EMBEDDED ANCHOR BOLTS.

-ALL HOLES DRILLED IN OR THROUGH WOOD MEMBERS FOR HOLDOWN RODS AND ANCHOR BOLTS TO BE A MINIMUM OF 1/32" TO A MAXIMUM OF 1/8" LARGER THAN THE BOLT OR ROD DIAMETER.

-IF HOLDOWN FOOTING SIZE IS LARGER THAN COLUMN PAD USE HOLDOWN SCHEDULE FOOTING.

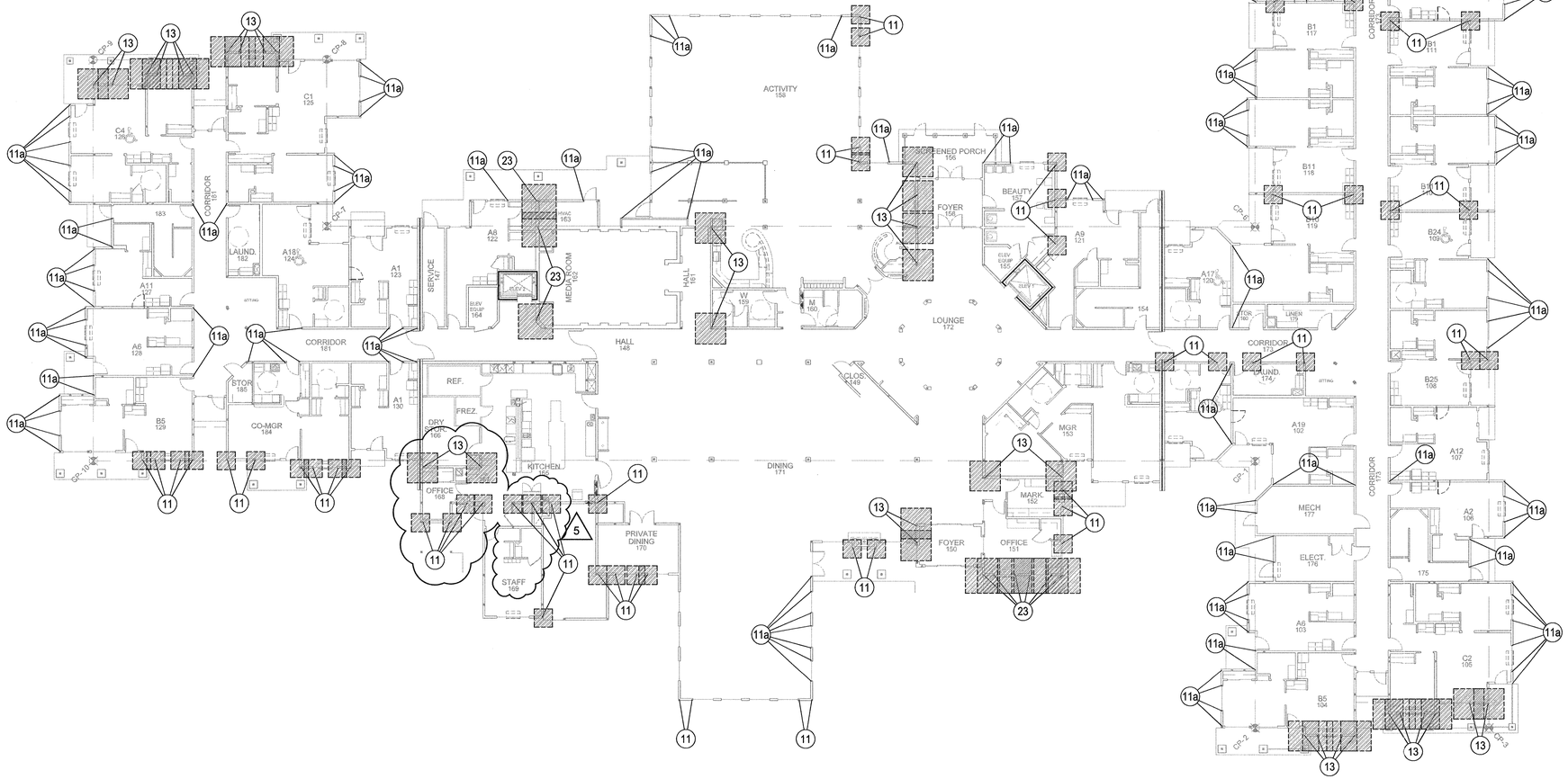
*- A193 GR B7 BOLT REQUIRED.

NOTE:
SEE ANCHOR BOLT LAYOUT ON SHEET S2.7a & S2.7b FOR INSTALLATION INFORMATION.

## FOUNDATION NOTES

1. BOTTOM PLATE ANCHORS: EXTERIOR SHEARWALL - REFER TO SHEARWALL SCHEDULE EXTERIOR NON-SHEARWALL - 1/2"Øx10" ANCHOR BOLTS @ 48" o.c. AND 6" FROM ENDS AND PLATE SPLICES. INTERIOR SHEARWALL- REFER TO SHEARWALL SCHEDULE INTERIOR NON-SHEARWALL - "HILTI" DS72S36 @ 48"oc AND 6" FROM ENDS.
2. 28 DAY CONCRETE STRENGTH =3,000 psi MIN.
3. SOIL BEARING CAPACITY PER SOILS REPORT
   SPREAD FOOTINGS = 4,000 psf.
   SQUARE FOOTINGS = 4,000 psf.
4. DIMENSIONS SHOWN ARE: EXTERIOR WALLS = OUTSIDE EDGE OF STEM WALL
   INTERIOR WALLS = CENTER OF THICKENED SLAB FREE STANDING COLUMNS = CENTER OF COLUMN
5. FINISHED FLOOR ELEVATION PER CIVIL GRADING PLANS
6. MINIMUM FOUNDATION DEPTH 54" BELOW FINISH GRADE.
7. VERIFY ELEV. PIT REQ'TS. W/ MANUF. (DIM. SHOWN TO INSIDE FACE.)
8. FINISH GRADE (F.G.) TO BE 8" BELOW FINISH FLOOR (F.F.) ELEVATION.

EXTRACT FROM SOILS REPORT PREPARED BY:
S. W. COLE ENGINEERING, INC.
286 PORTLAND ROAD
GRAY, MAINE 04039
PHONE: 207-657-2866
PROJECT #14-1188S
DATE: JANUARY 16, 2015




** HOLDOWNS LOCATED AT FOUNDATION

SEE S1.1 - S1.3 FOR ADDITIONAL FOUNDATION LOCATION AND INFORMATION. SEE S1.4 - S1.6 FOR ADDITIONAL FRAMING MEMBERS LOCATION AND INFORMATION.

# 1ST FLOOR HOLDOWN PLAN

SCALE: 1/16"=1'-0"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| DATE |
|---|
| 8/28/2015 |

| REVISED DATE |
|---|
| 1 9/22/2015 |
| 2 2/2/2016 |
| 3 7/18/2016 |

SHEET
S0.1

save:8/28/2016 10:16 AM andrew plot:8/28/2016 10:24 AM jodi pdf file:p:\teamdrives\ae-portlandandcol\c-1-5-5 shearwall holdown plan.dwg S0.1