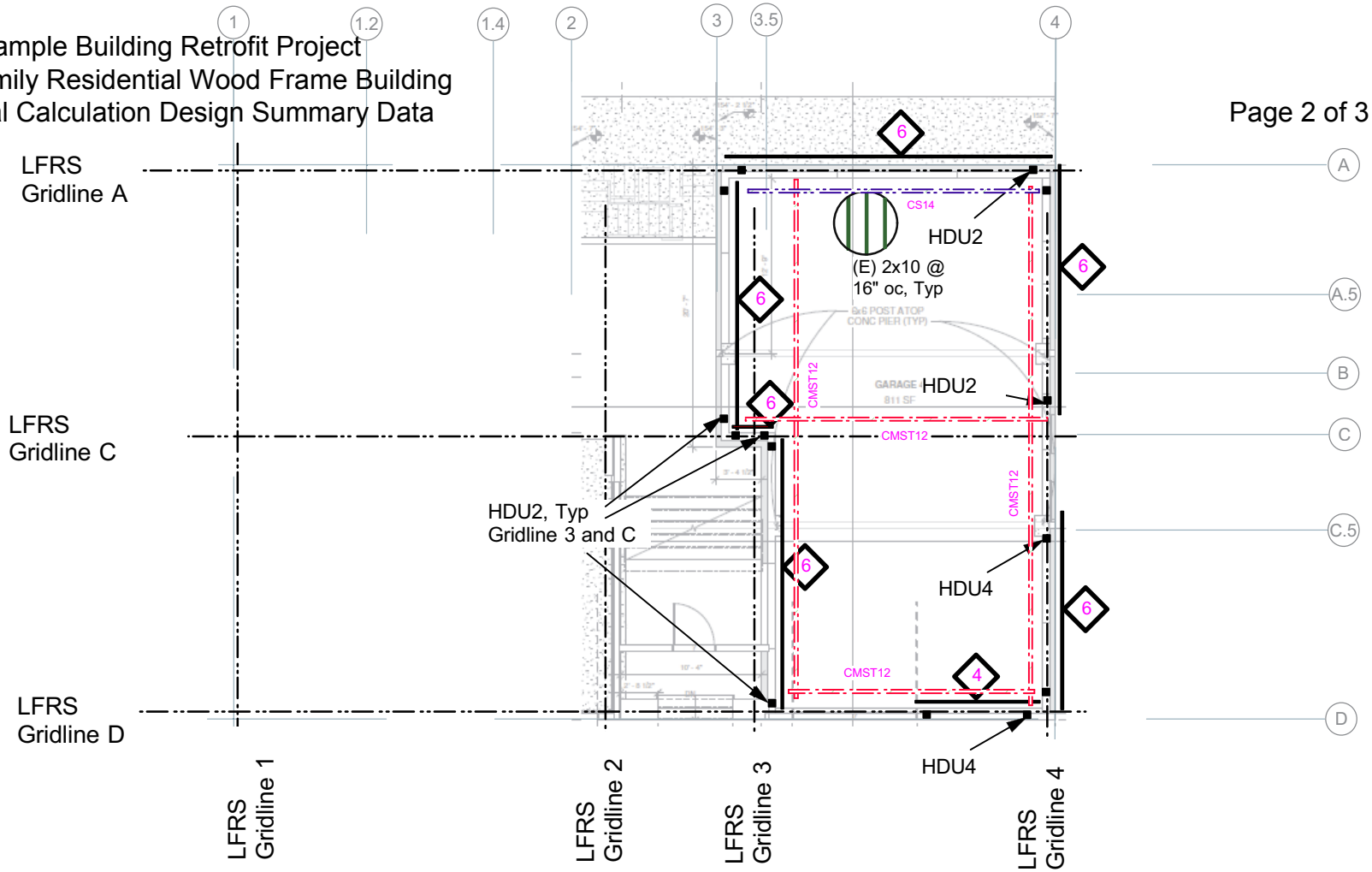
2017 Sample Retrofit Project - San Francisco, CA

Performed Seismic Retrofit (ground floor levels) of 4 Story multi-family residential wood framed building in San Francisco built in 1965 on steep terrain, using wood framed shear walls and Simpson Special Moment Resisting Frames.



LOWER FLOOR LEVEL - RETROFIT PLAN

NTS

Lateral Force Resisting System (LFRS) Elements :

(N) Shear Wall

Simpson Strong Frame

Note: Simpson Strong Frames consist of FIxed Base W8 Columns and W10 Beams

Ground Floor Retrofit Plan (from calcs)

RETROFIT LEGEND:

3 — 1/2" Struct I Sheathing w/ 10d Edge Nailing

■ — Holdown each side, as indicated

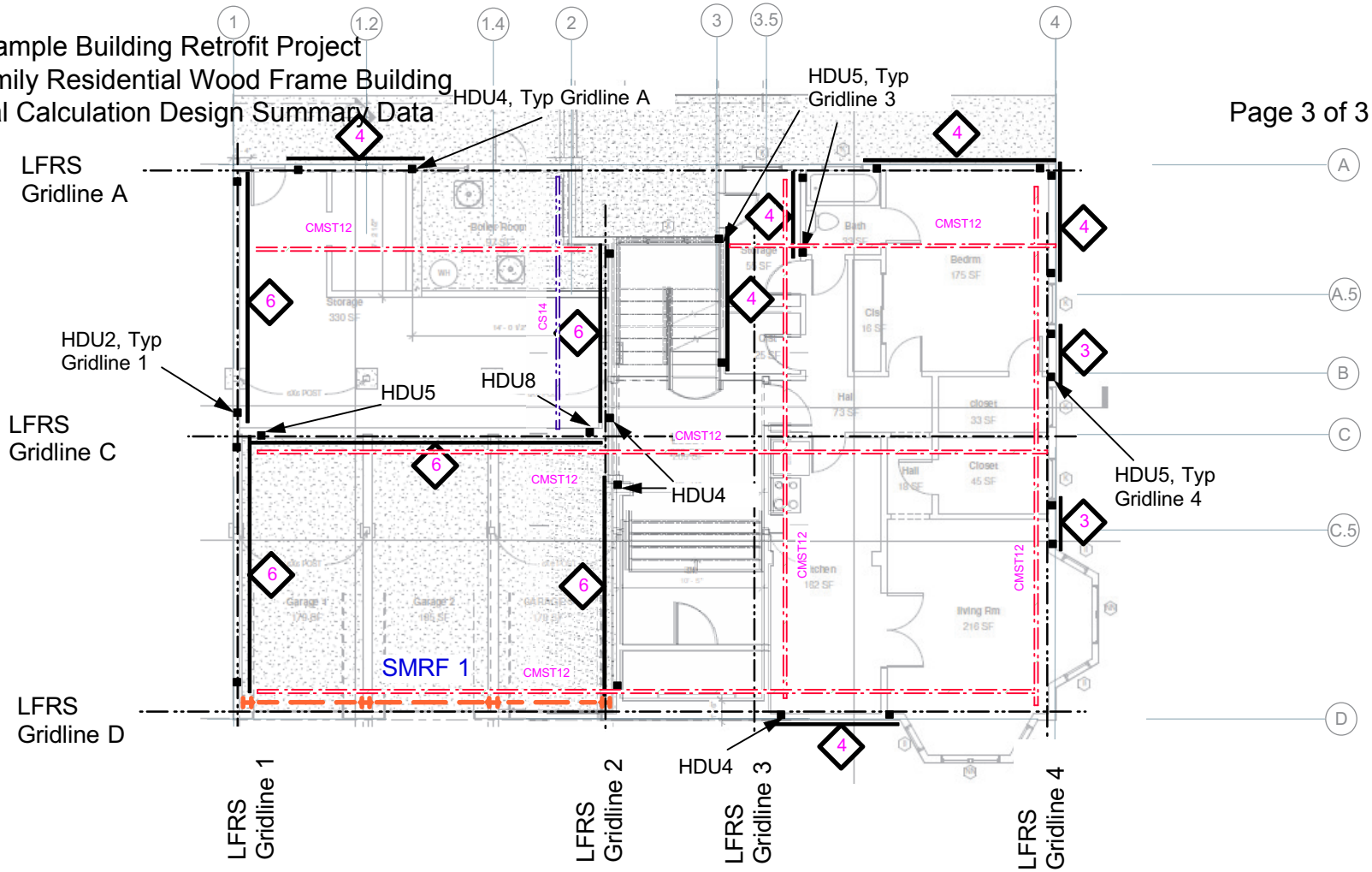
STRAP LEGEND:

Note: Straps in N-S direction can be replaced with 6 - 3/4" carriage bolts at Floor joist splices at lines of support.

CS14 — CS14 Strap w/ 10d (2,490 #)

CMSTC16 — CMSTC16 Strap w/ 16d (4,585 #)

CMST12 — CMST12 Strap w/ 16d (9,215 #)



(E) FIRST FLOOR - LOBBY PLAN - SHEET A1.5

FIRST FLOOR LEVEL - RETROFIT PLAN

NTS NTS

Lateral Force Resisting System (LFRS) Elements :

(N) Shear Wall

Simpson Strong Frame

Note: Simpson Strong Frames consist of FIxed Base W8 Columns and W10 Beams

First Floor Retrofit Plan (from calcs)

RETROFIT LEGEND:

3 — 1/2" Struct I Sheathing w/ 10d Edge Nailing

■ — Holdown each side, as indicated

STRAP LEGEND:

Note: Straps in N-S direction can be replaced with 6 - 3/4" carriage bolts at Floor joist splices at lines of support.

CS14 — CS14 Strap w/ 10d (2,490 #)

CMSTC16 — CMSTC16 Strap w/ 16d (4,585 #)

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