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LINE OF LOWER ROOF

MAIN FLOOR BEARING WALL

OPEN FOR SKYLIGHT VERMIN P.C. W/ W/FRAM

OPEN FOR SKYLIGHT VERMIN P.C. W/ W/FRAM

OPEN FOR SKYLIGHT VERMIN P.C. W/ W/FRAM

SEE UPPER FLOOR FRAMING PLAN SHEET FOR FRAMING THIS AREA

MAIN FLOOR BEARING WALL

LINE OF LOWER ROOF

1'-6" 14'-6" 2'-0" 4'-0" 8'-0" 17'-6" 2'-6" 46'-2"

E.F.F. 410

E.F.F. 410

E.F.F. 410

E.F.F. 410

E.F.F. 410

E.F.F. 410

E.F.F. 410

E.F.F. 410

E.F.F. 410

E.F.F. 410

R3

R2

R5

R5

R9

R3

R3

R3

R1

R1

R1

R1

R1

R1

R1

R1

R1

R1

R1

R1

3220

8'-2 3/4"

8'-6"

8'-6 3/4"

8'-6 3/4"

8'-6 3/4"

8'-6 3/4"

8'-6 3/4"

8'-6 3/4"

8'-6 3/4"

8'-6 3/4"

8'-6 3/4"

8'-6 3/4"

8'-6 3/4"

15200

4200

4200

5200

5210

11

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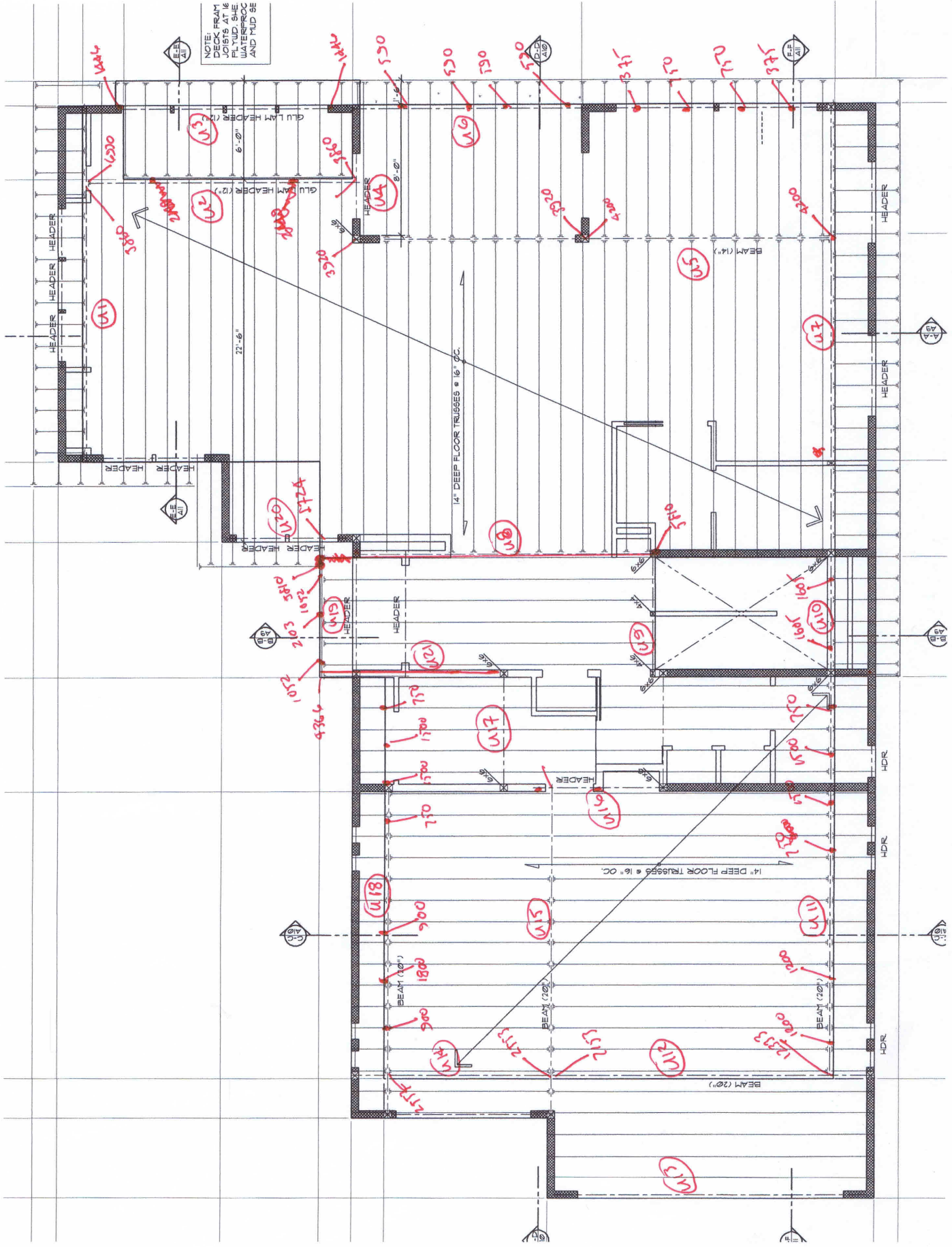
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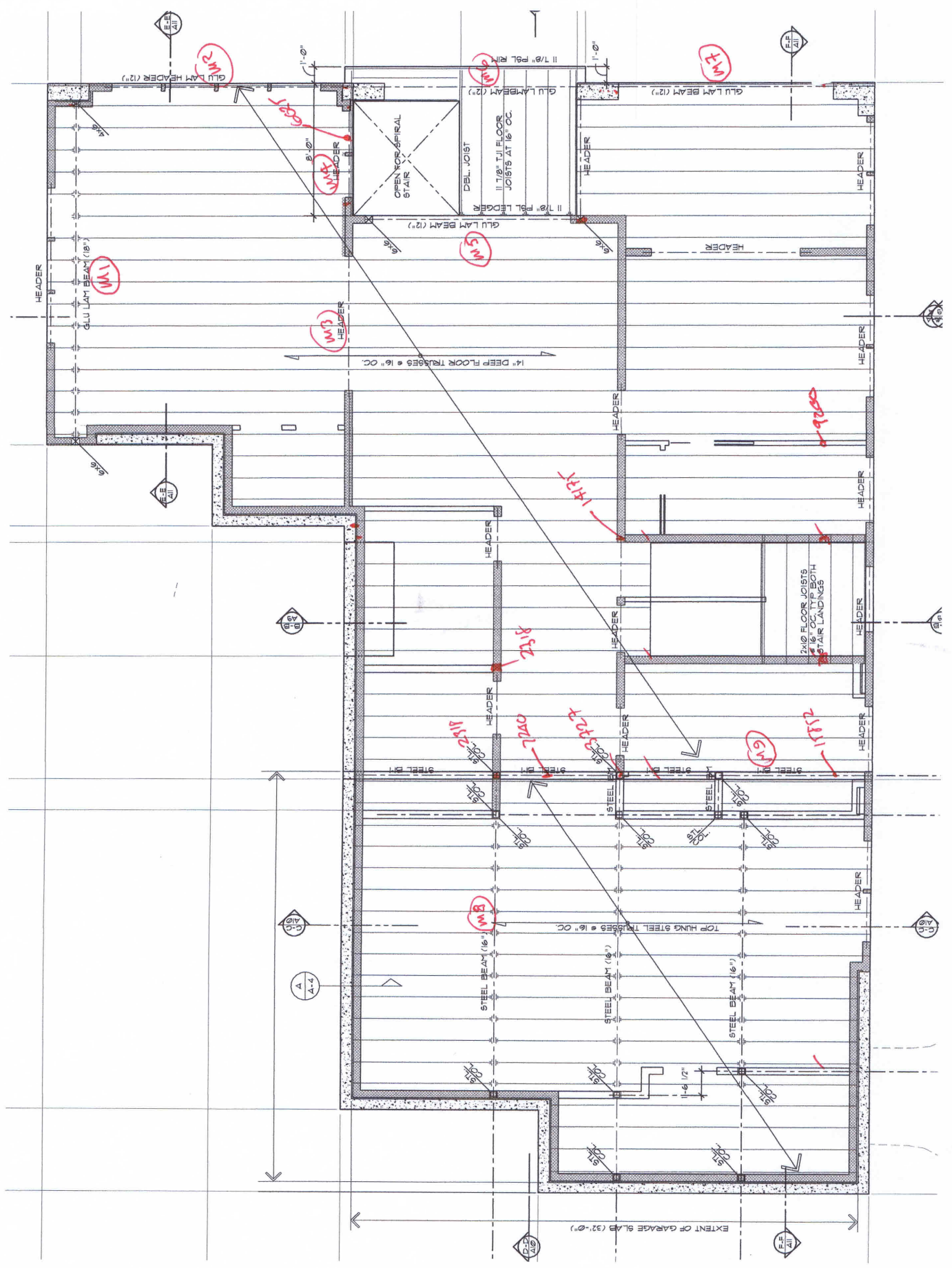
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NOTE FROM JOISTS AT 16" PLYWOOD SHE WATERPROOF AND MUD SE





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A

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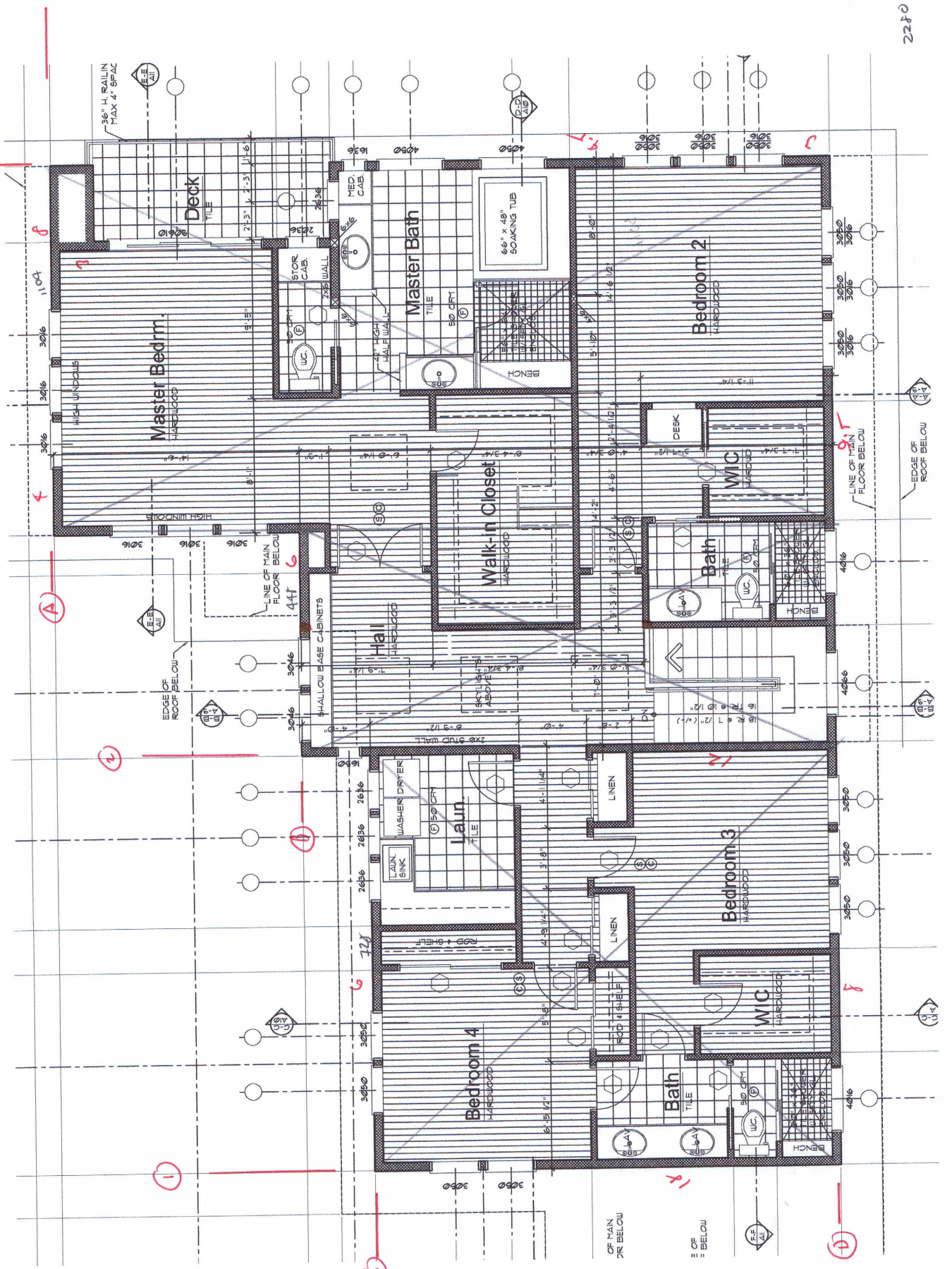
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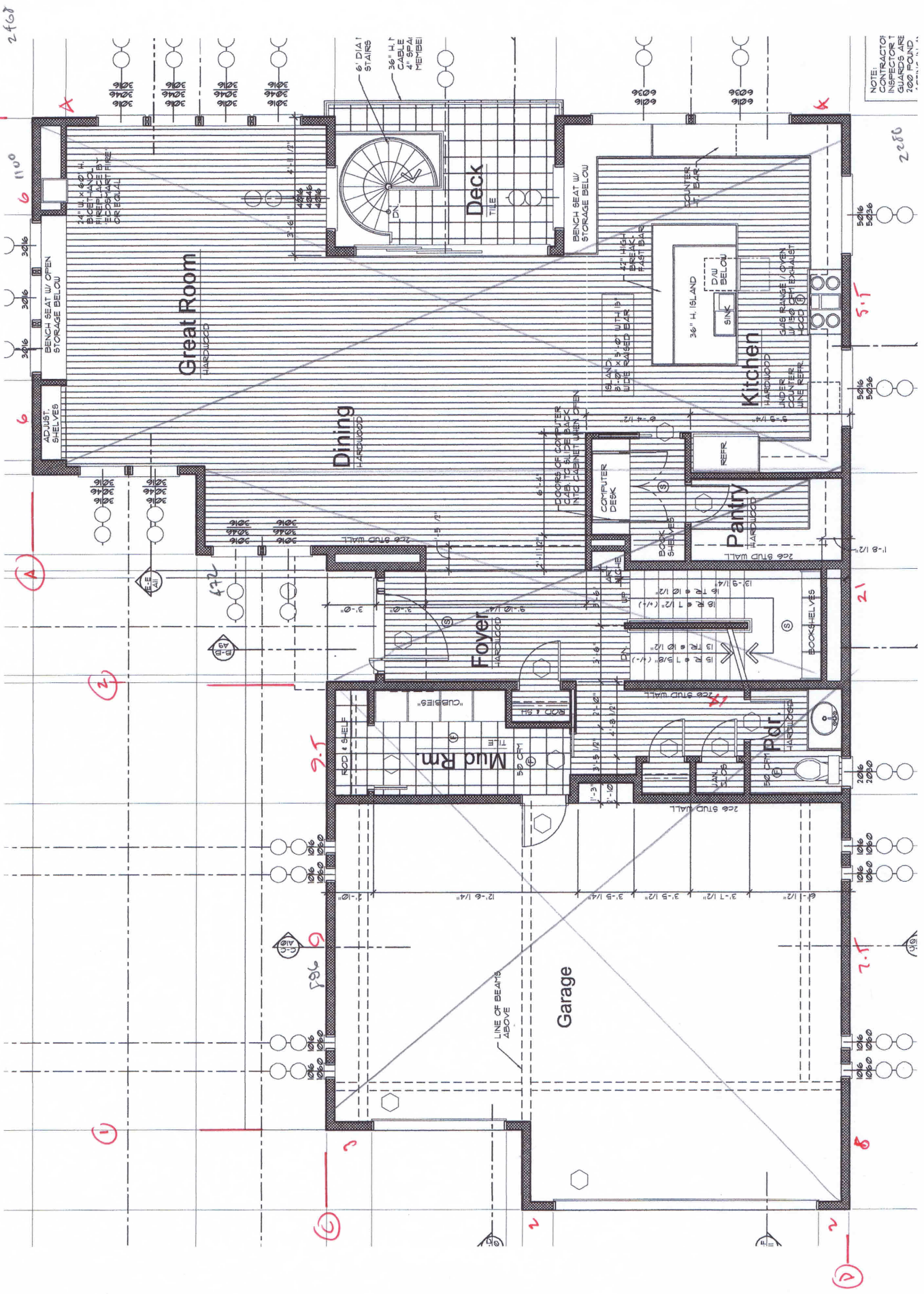
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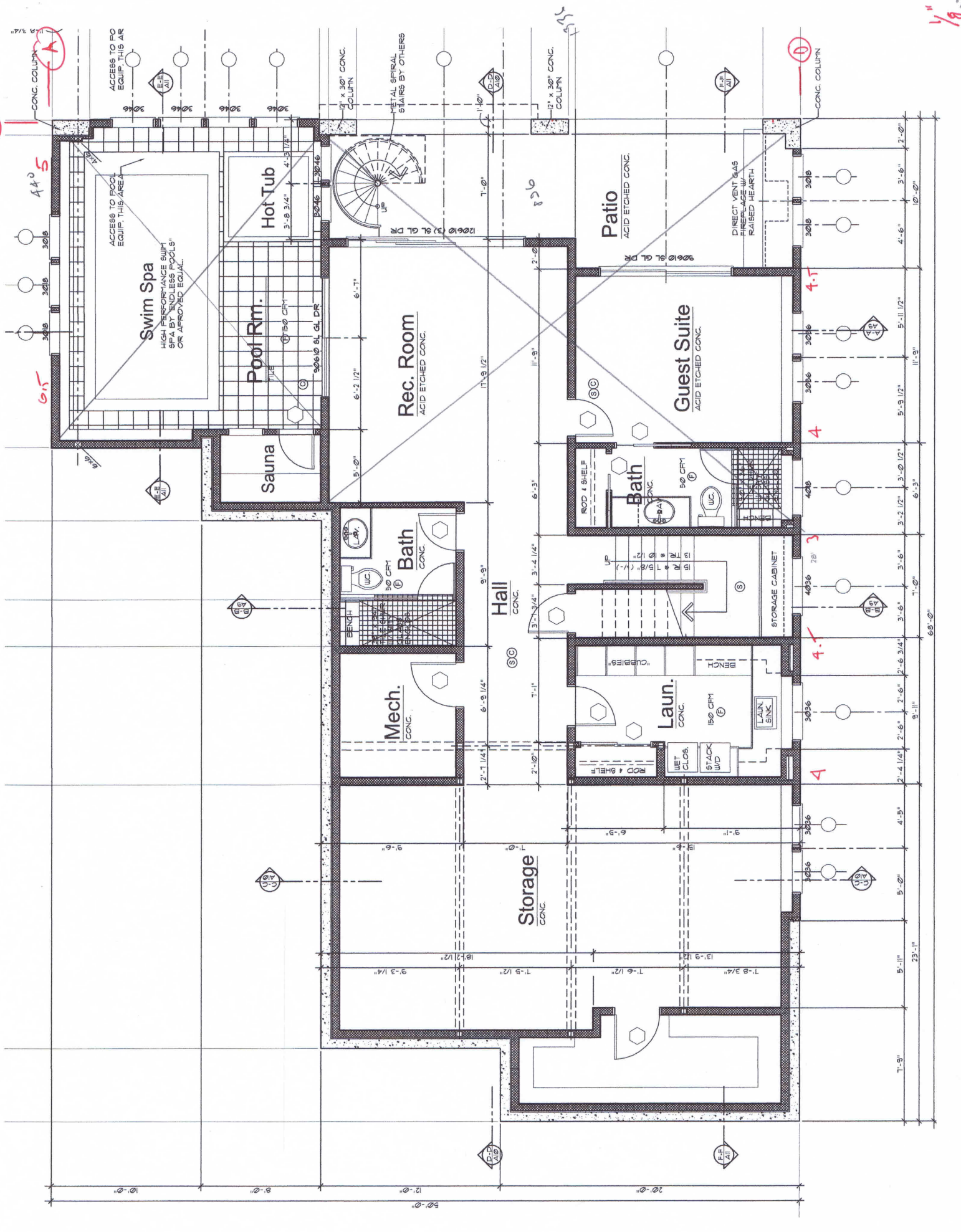
2220

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NOTE:
CONTRACTOR
INSTALLERS
GUARDS ARE
2000 FOUND



Swim Spa
HIGH PERFORMANCE SUIT
SPA BY "ENDLESS POOLS"
OR APPROVED EQUAL.

Pool Rm.
TILE
6'-9 3/4"
30610 SL GL DR

Hot Tub
3'-9 3/4"
4'-3 1/2"
3046

Rec. Room
ACID ETCHED CONC.
6'-1 1/2"
6'-1"
11'-9 1/2"
11'-9"

Guest Suite
ACID ETCHED CONC.
5'-9 1/2"
5'-11 1/2"
11'-9"

Bath
CONC.
50 CFY
BENCH
WET CLOS.
STACK W/D
LAUN SINK

Bath
CONC.
50 CFY
ROD & SHELF
BENCH
WET CLOS.
STACK W/D
LAUN SINK

Laun.
CONC.
150 CFY
WET CLOS.
STACK W/D
LAUN SINK

Hall
CONC.

Storage
CONC.

Patio
ACID ETCHED CONC.

ACCESS TO POOL
EQUIP. THIS AREA

ACCESS TO POOL
EQUIP. THIS AREA

DIRECT VENT GAS
RAISED HEARTH

3" x 30" CONC.
COLUMN
METAL SPIRAL
STAIRS BY OTHERS

3" x 30" CONC.
COLUMN

CONC. COLUMN

440

6.5

4.1

4

3

4.1

4

1/8

Shear Wall Summary Quackenbush Garage

Project: 16064
Date: 1/15/2017

Dead Loads:
Roof: 15 PSF
Wall: 10 PSF
Floor: 14 PSF

S_{bs}= 0.828

Grid Line	Total Wall Length (ft)	Plate Height (ft)	Total Forces (lb)		Wall Forces (PLF)		Check Length (ft)		OTM (lb-ft)		Dead Load Trib (ft)		Net uplift (lb)		Wall Type	Hold-down	Post	Anchor
			Wind	Seismic	Wind	Seismic	Length	Seismic	Roof	Wall	Floor	Wind	Seismic	DLRM (lb-ft)				
Upper Floor Shear Walls																		
A	12	9	1444	1244	120	104	4	4332	3732	6	4	1440	867	759	P1-6	MST 37	(2)2x	
B	6	9	480	506	80	84	6	4320	4554	16	6	5940	126	280	P1-6	MST 37	(2)2x	
C	6	9	1108	820	185	137	6	9972	7380	15	6	5670	1095	773	P1-6	MST 37	(2)2x	
D	17.5	9	1444	2569	83	147	8	5941	10570	6	8	5760	311	973	P1-6	MST 37	(2)2x	
1	18	9	940	820	52	46	18	8460	7380	4	18	24300	-340	-244	P1-6	MST 37	(2)2x	
2	12	9	1464	2569	122	214	12	13176	23121	4	12	10800	558	1491	P1-6	MST 37	(2)2x	
3	7.5	9	1228	1748	164	233	3	4421	6293	6	3	810	1312	1967	P1-6	MST 37	(2)2x	
Main Floor Shear Walls																		
A	12	10	4870	3280	406	273	6	24350	16400	6	6	3924	3666	2417	P1-4	MST 60	(2)2x	
C	18.5	10	4442	3098	240	167	9	21610	15071	16	9	16038	1332	812	P1-6	HDU 2	(2)2x	5/8"
D	42	10	4870	5522	116	131	5.5	6377	7231	6	5.5	3721	754	987	P1-6	MST 37	(2)2x	
1	7	10	3458	1980	494	283	2	9880	5657	4	2	432	4810	2724	P1-4	HDU 8	(3)2x	7/8"
2	14	10	4775	5522	341	394	14	47750	55220	4	14	21168	2504	3212	P1-3	MST 48	(2)2x	
3	8	10	3960	3784	495	473	4	19800	18920	6	4	2192	4621	4465	P1-2	HDU 8	(3)2x	7/8"
Basement Floor Shear Walls																		
A	11.5	9	8296	4059	721	353	5	32463	15883	6	5	2950	6139	2891	P1-2	HDU 11	(4)2x	1"
D	20	9	8296	6301	415	315	3	11200	8506	6	3	1314	3470	2623	P1-4	HDU 8	(3)2x	7/8"
3	40	9	5837	2759												concrete piers		

Overturning Load Combinations based on ASCE 7-10
0.6D + 0.6W
(0.6-0.14S_{ps})D + 0.7Q_E ASCE 7-10 section 2.4
ASCE 7-10 Section 12.4.2.3