

**OWNER & BUILDER'S NOTE**

These plans shall not be used for construction until stamped, signed and approved by the local building department. The builder is expected to follow these plans, applicable building codes and local ordinances. The Builder shall verify that site conditions are consistent with these plans before starting work. While these plans are drawn to show the proposed work as accurately as possible, schematic details may be used in some cases for clarity. Work not specifically detailed shall be constructed to the same quality as similar work that is detailed. Written dimensions and specific notes shall take precedence over scaled dimensions and general notes.

The Designer shall be consulted for clarification if site conditions are encountered that are different than shown, if discrepancies are found in the plans or notes, or if a question arises over the intent of the plans or notes.

The Designer assumes no responsibility for scheduling, fabrication, construction techniques or materials, or quantities used in the work. The engineer/ designer assumes no responsibility for field changes, site variances or discrepancies not brought to his/her attention for clarification.

**GENERAL NOTES**

All work shall be done in accordance with the California Building Code and local codes.

Nailing to be in compliance with CBC table 23-11-b-1

Water conservation plumbing fixtures

Dimensions and notes shall take precedence over the scaling of drawings.

Wall dimensions are to the exterior of framing unless noted otherwise.

Lumber coming in contact with concrete or masonry shall be treated to a minimum of 40 cca. all lumber in continuous contact with the ground shall be treated to a minimum of .60 cca.

All framing lumber to be #2 or better df or equivalent, unless noted otherwise.

Exterior and interior materials and finishes to be determined by owner.

**EXTERIOR FINISH NOTES**

Exterior to match Existing Stucco.

Finished color to match existing dwelling.

30 Year Architectural Asphalt Composition Shingles (Class A Type Fire-Rated Roofing) to Match Existing, over 30# felt over 1/2" OSB or CDX. Color to match existing dwelling roofing.

Downspouts to be collected and roof run off to be directed away from dwelling.

Finish grade shall slope away from dwelling min. 1/4" per foot of run for 4' min.

**WINDOWS AND GLAZING**

New windows shall be dual pane low-e with vinyl frames.

(see title 24 reports sheet T-1), for U-factor & SHGC ratings

Manufacturer to be determined by owner. Colors to match existing dwelling

**DOORS**

Manufacturer to be determined by owner. Colors to match existing dwelling

**BUILDING PERFORMANCE**

Heat loss calculations shall comply with requirements of regional and local codes. See calculations.

Porches and garage areas not included in living area

All penetrations of building envelope shall be sealed with chalk or foam.

Wall Insulation to be R-13 (see Title 24 Reports) Sheet T-1

Floor Insulation to be N/A (see Title 24 Reports) Sheet T1

Ceiling Insulation to be R-38 (see Title 24 Reports) Sheet T1

**ATTIC/CRAWL SPACE ACCESS**

A minimum of 22" x 30", there shall be 30" min. clearance at or above the opening.

Provided through existing gable into new addition

**VENTILATION**

Attic shall have ventilation equal to 1 sq. foot per 150 sq. feet of attic space. Ventilation shall be protected from snow and rain and shall be covered with galvanized wire screen. Openings shall be located to provide cross ventilation.

Under floor spaces shall have ventilation equal to one sq. foot per 150 sq. feet of floor space. Vents shall be with galvanized wire screen. Vents shall be located to provide cross ventilation.

**PROJECT DATA**

OWNER: JOE SWEENEY

OWNER PHONE: Home: 510-783-3638, Cell:  
PROJECT ADDRESS: 1911 SHERWOOD, MANTECA, CA 95336

APN: 216-100-60

ZONING: R1 RESIDENTIAL

FIRE DISTRICT: MANTECA

WATER: PUBLIC

SEWER: PUBLIC SEWER

**BUILDING AREAS**

EXISTING DWELLING FOOT PRINT	1,840 sq ft
EXISTING DWELLING LIVING AREA	1,440 sq ft
EXISTING GARAGE AREA	400 sq ft
NEW GAME ROOM ADDITION	392 sq ft
NEW COVERED DECK	78 sq ft
TOTAL FOOT PRINT AREA	2,310 sq ft
LOT AREA	10,018 sq ft
LOT COVERAGE	23%

**THIS PROJECT SHALL COMPLY WITH THE FOLLOWING**

- 2007 CALIF BUILDING CODE
- 2007 CALIF MECHANICAL CODE
- 2007 CALIF PLUMBING CODE
- 2007 CALIF ELECTRICAL CODE
- 2005 CALIF CALIFORNIA ENERGY CODE

**SCOPE OF WORK**

Construct a 392 sq ft Game Room with an attached 78 sq ft Covered Deck onto existing dwelling.

**PROJECT TEAM**

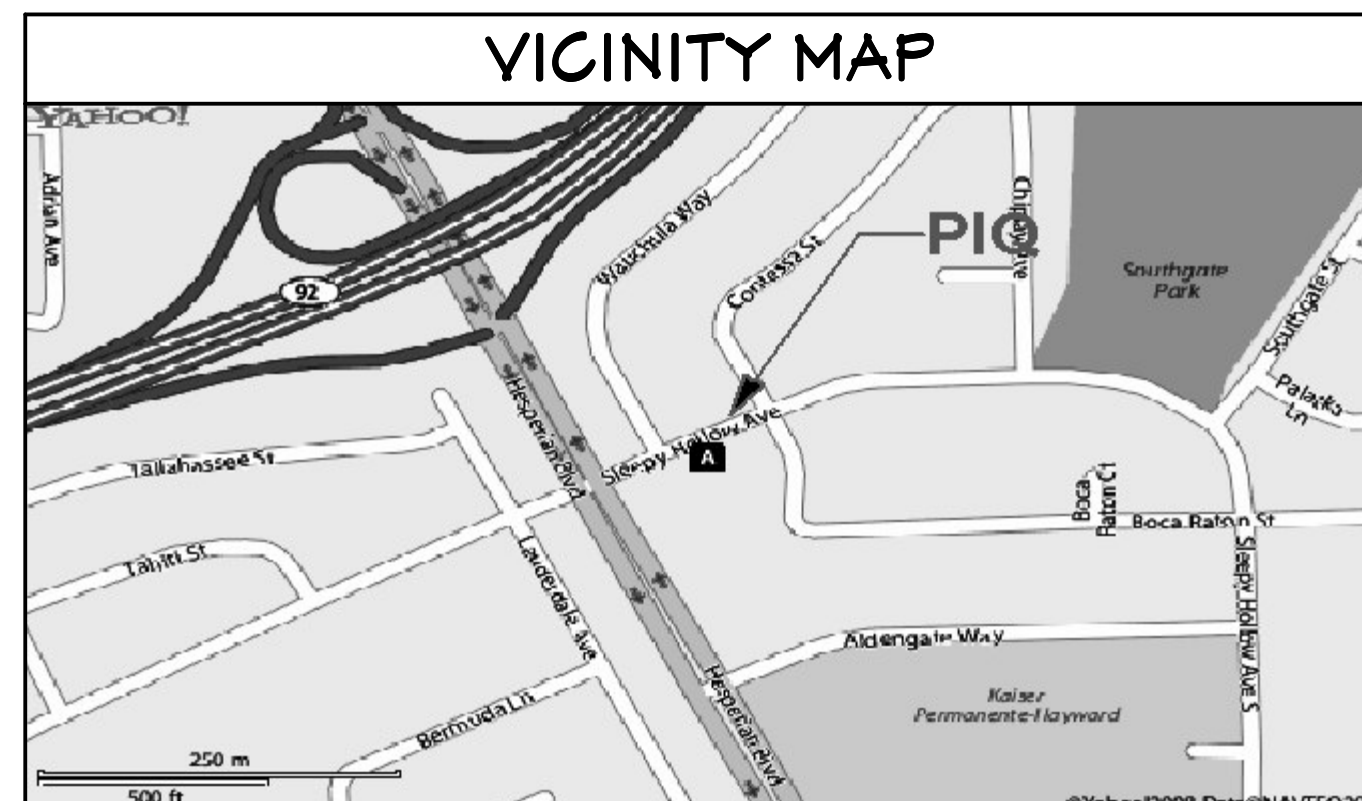
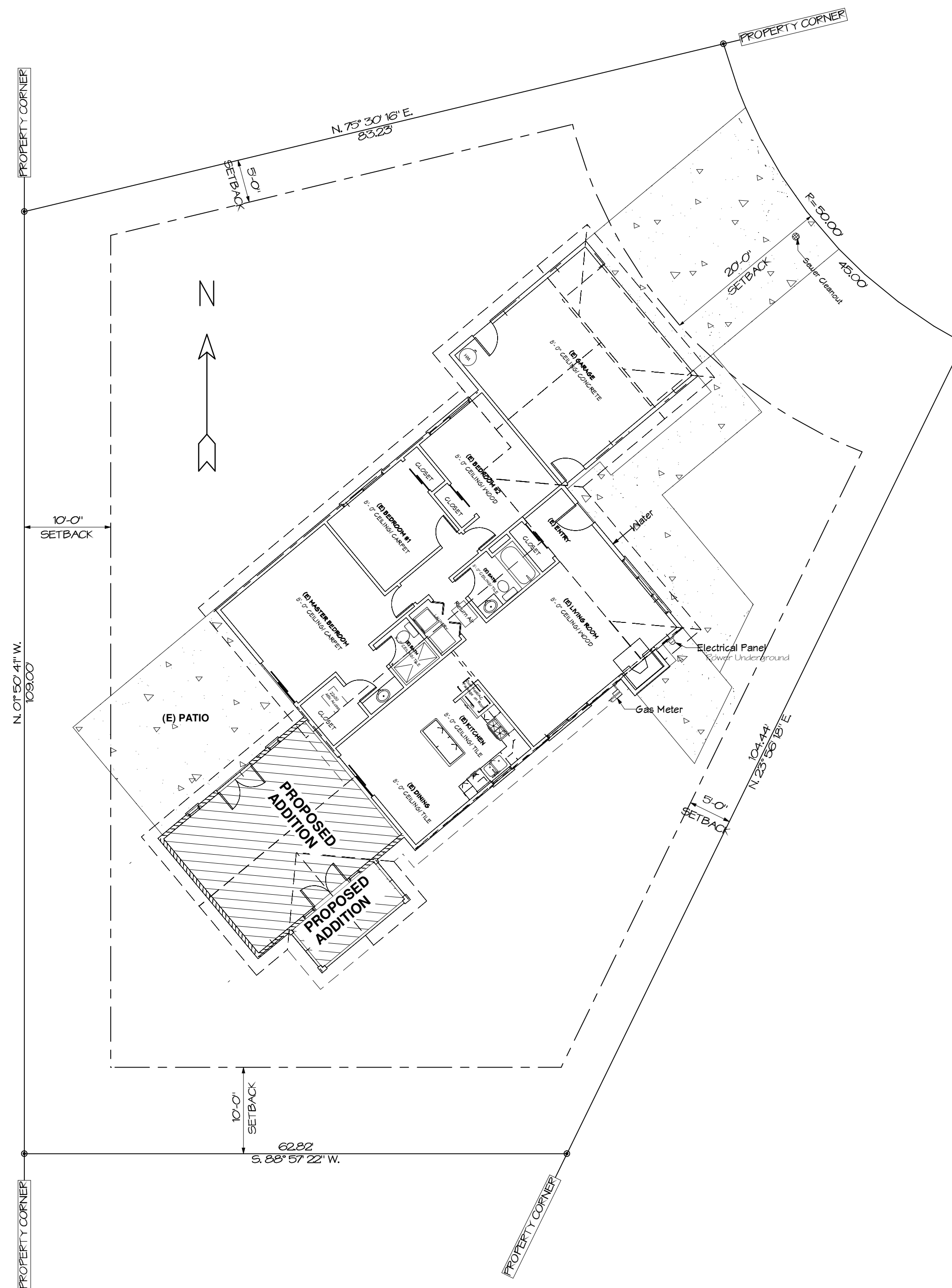
DESIGNER	Mark Sweeney DBA Sweeney Builders CSL # 630896 10489 Robin Ave Grass Valley, Ca 95945 530-368-3640
STRUCTURAL	N/A
ENERGY	Paul Aguilar A&A Air Conditioning & Heating P.O. Box 933 Grass Valley, CA 95945 530-273-1301

**LEGEND**

(X)	DETAIL NUMBER
(X)	SHEET
(X)	SHEARNALL TYPE
(X)	SHEARNALL LENGTH
(N)	NEW CONDITION
(E)	EXISTING CONDITION

**SHEET INDEX**

A-1	SITE PLAN & PROJECT INFO
A-2	FLOOR PLAN
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A-4	SECTION VIEWS
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S-2	ROOF & FRAMING PLAN
SD-1	DETAILS
T-1	TITLE 24 REPORTS



**SITE PLAN & PROJECT INFO**

SCALE: 1" = 10'-0"

**REVISIONS**

No.	DESCRIPTION	DATE

**SWEENEY RESIDENCE**

1911 SHERWOOD, MANTECA, CA 95336

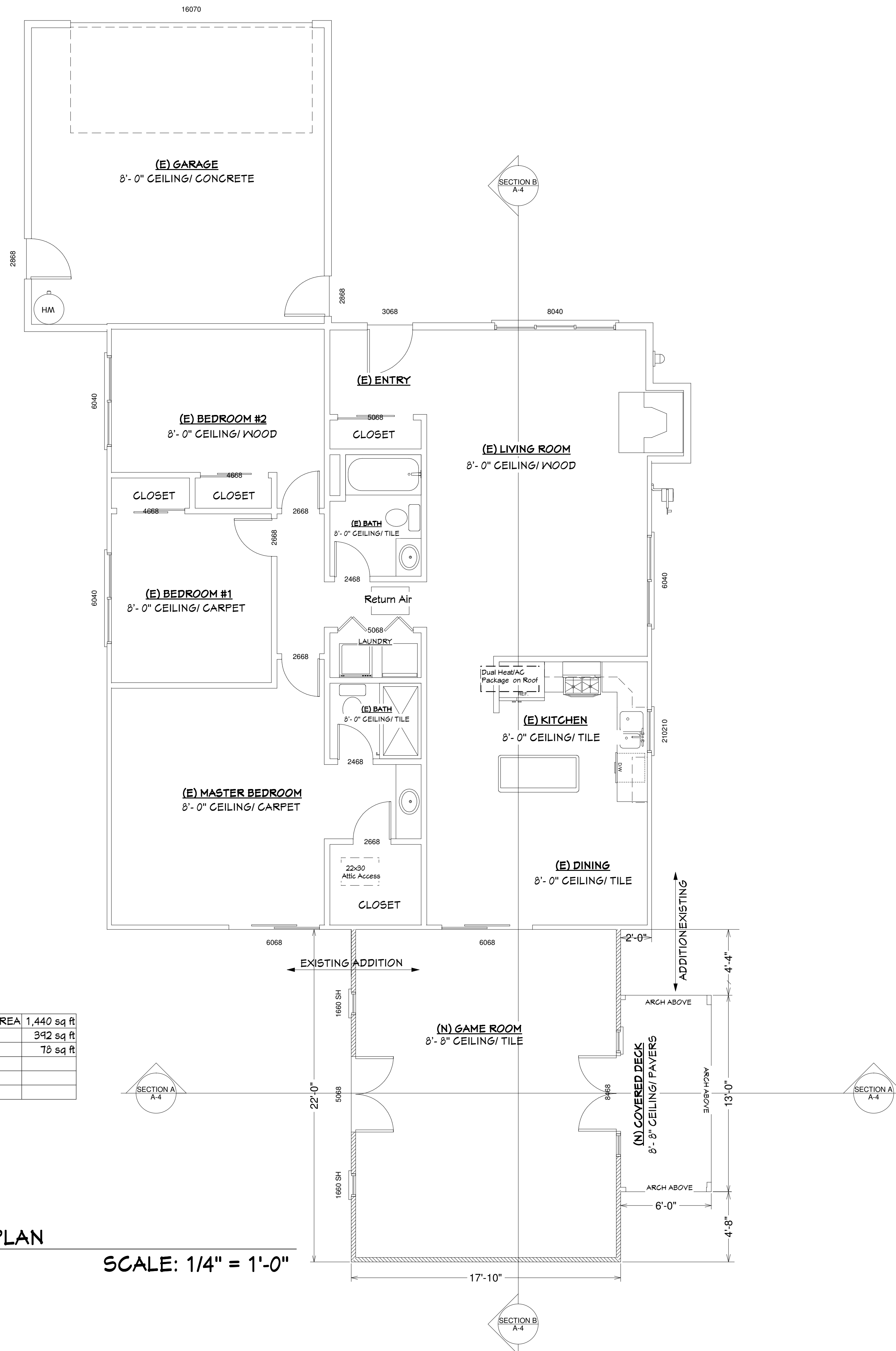
**PROPOSED GAME ROOM ADDITION**

**INFORMATION**

OWNER NAME	JOE SWEENEY
OWNER MAILING ADDR:	1911 SHERWOOD MANTECA, CA 95336
OWNER PH.	Home: 510-453-1417 Cell:
SITE ADDRESS	1911 SHERWOOD MANTECA, CA 95336
SITE APN	216-100-60
DATE	5-11-2009
DRAWN BY	Mark Sweeney DBA Sweeney Builders CSL #630896, 530.368-3640
SCALE	1" = 10'-0"
JOB NO.	1503

**SITE PLAN & PROJECT INFO**

PAGE	A-1
SHEET	1 OF 9



WALL LEGEND	
EXISTING WALLS	
NEW WALLS	

EXISTING DWELLING LIVING AREA	1,440 sq ft
NEW GAME ROOM ADDITION	392 sq ft
NEW COVERED DECK	78 sq ft

FLOOR PLAN

SCALE: 1/4" = 1'-0"

REVISIONS

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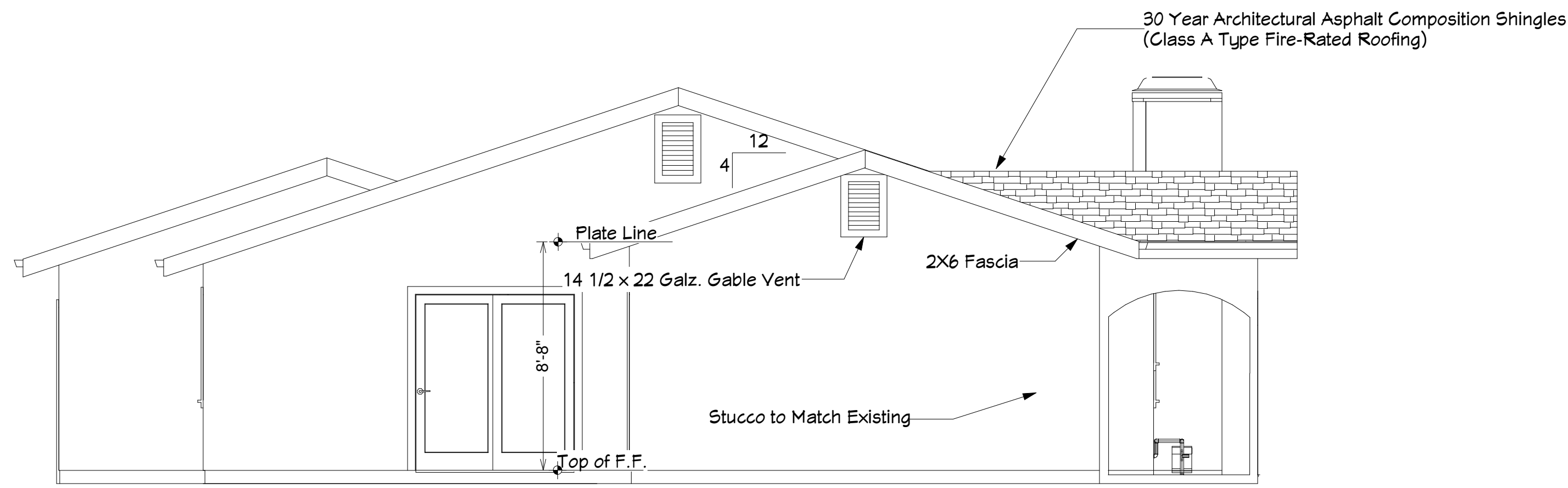
PROPOSED GAME ROOM ADDITION

INFORMATION

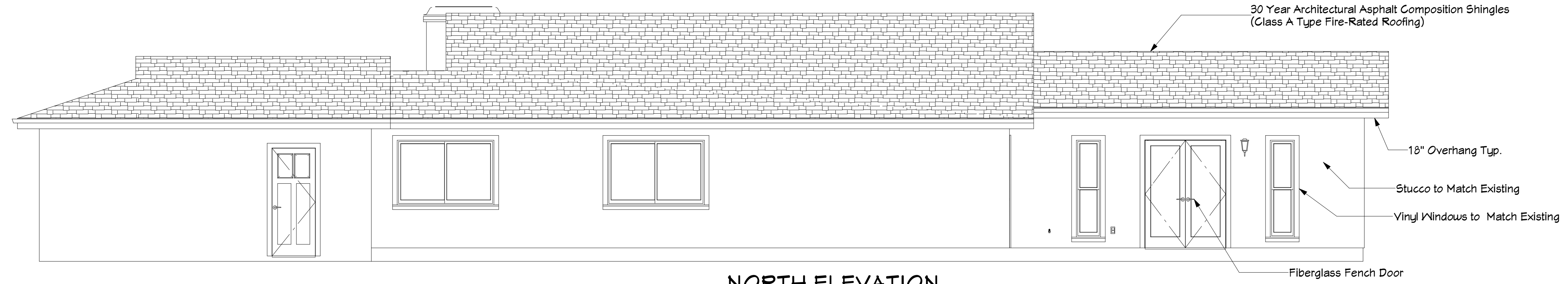
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FLOOR PLAN

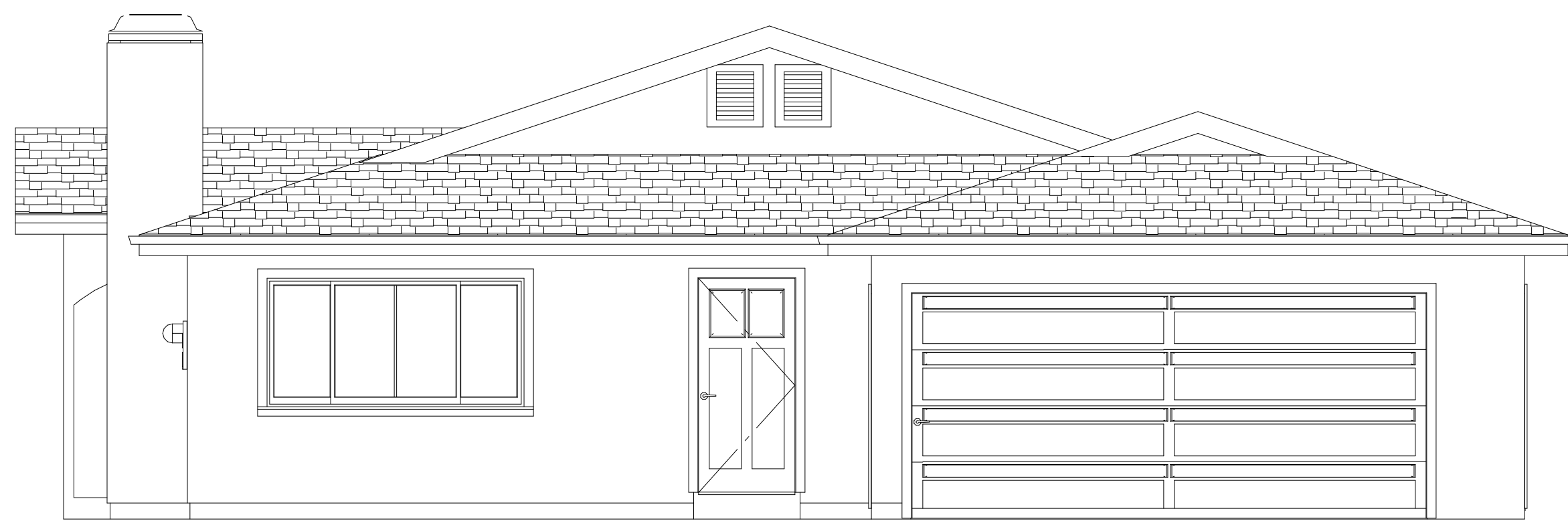
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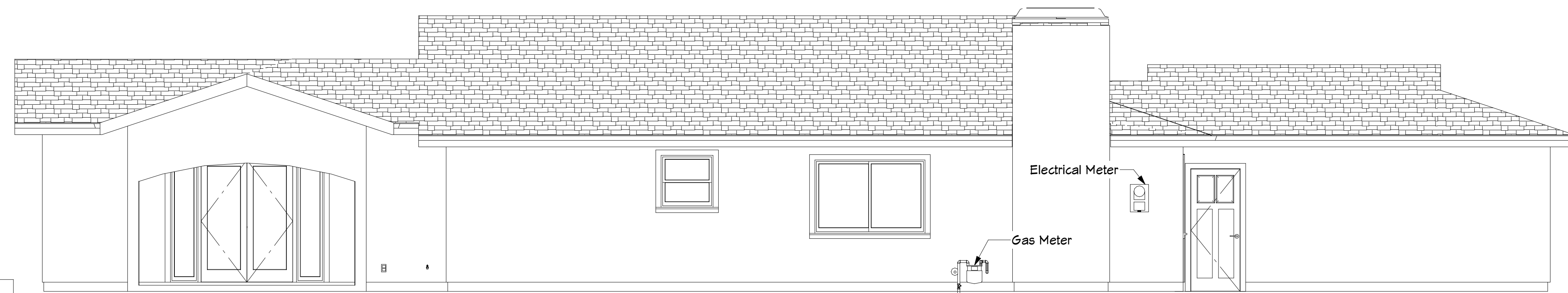
**WEST ELEVATION**



**NORTH ELEVATION**



**EAST ELEVATION**



**SOUTH ELEVATION**

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**EXTERIOR ELEVATIONS**

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**EXTERIOR FINISH NOTES**

- Exterior to match Siding on North Elevation and Stucco on East and West elevation.
- Finished color to match existing dwelling.
- Roofing to be 30 Year Architectural Asphalt Composition Shingles (Class A Type Fire-Rated Roofing) over 30# felt over 1/2" OSB or CDX. Color to match existing dwelling roofing.
- Downspouts to be collected and roof run off to be directed away from dwelling.
- Finish grade shall slope away from dwelling min. 1/8" per foot of run for 4' min.

**Exterior Elevations**

Scale: 1/4" = 1'-0"



ELECTRICAL LEGEND	
SYMBOL	DESCRIPTION
	METER SOCKET
	PANEL BOX
	CEILING FAN W/ LIGHT
	FLUORESCENT LIGHT FIXTURE
	110V CEILING LIGHT FIXTURE
	110V RECESSED LIGHT FIXTURE
	110V EAVE LIGHT FIXTURE
	110V CHANDELIER LIGHT FIXTURE
	110V WALL LIGHT FIXTURE
	SINGLE POLE SWITCH
	THREE WAY SWITCH
	FOUR WAY SWITCH
	DIMMER SWITCH

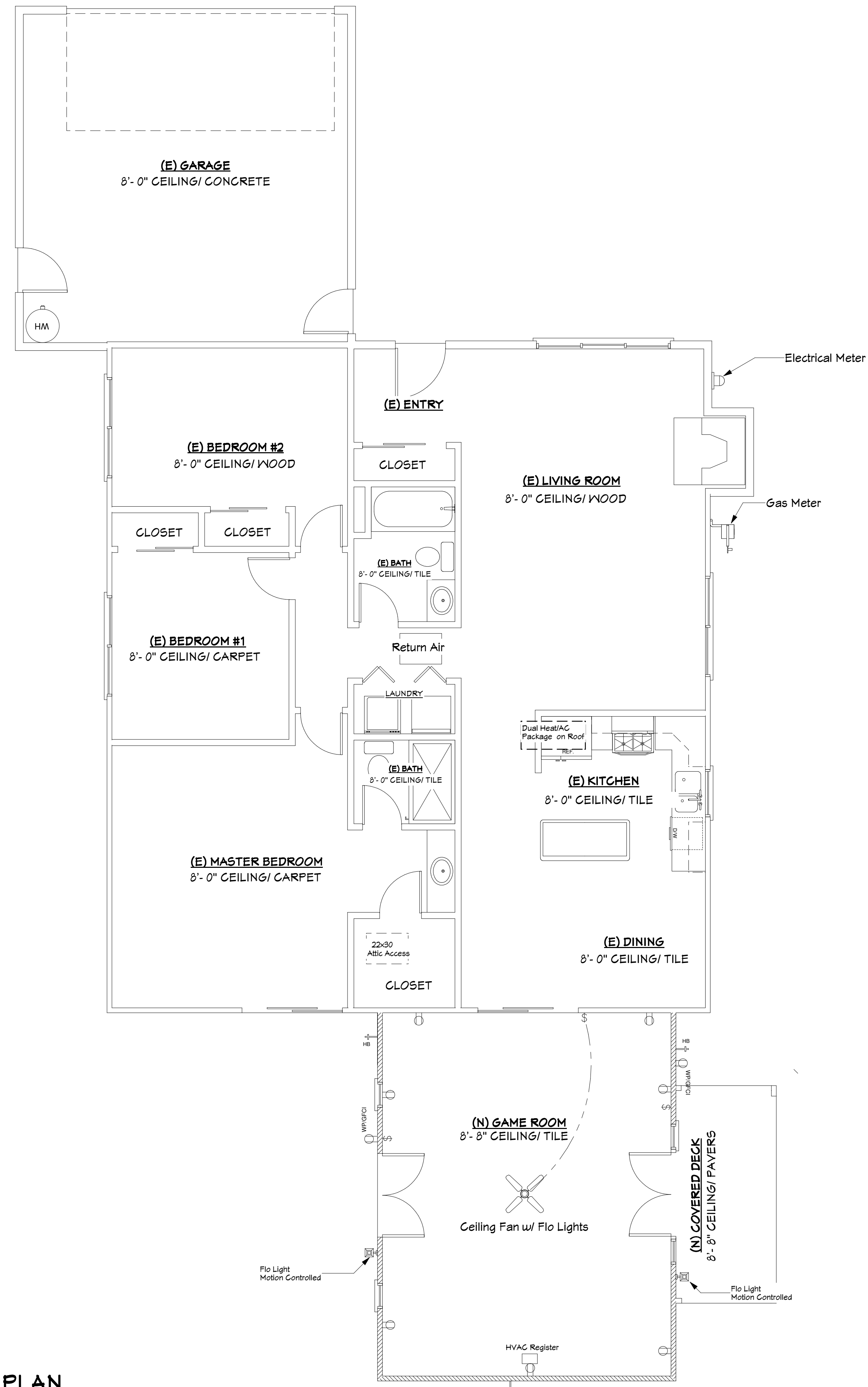
ELECTRICAL LEGEND	
SYMBOL	DESCRIPTION
	OUTDOOR SWITCH
	110V DUPLEX RECEPTACLE
	110V DUPLEX RECEPTACLE GROUND FAULT INTERRUPTED
	110V DUPLEX RECEPTACLE W/ WEATHERPROOF COVER
	110V FLOOR MOUNTED DUPLEX RECEPTACLE
	240V RECEPTACLE
	TELEPHONE JACKS
	TELEVISION JACKS
	DOOR BELL PUSH BUTTON
	THERMOSTAT
	SMOKE DETECTOR
	EXHAUST FAN
	DOOR CHIME
	FIRE ALARM PANEL
	COMPUTER POINT
	RECESSED FLOURESCENT

**ELECTRICAL PLAN NOTES:**

GENERAL ELECTRICAL: PER 2007 CALIF ELECTRICAL CODE

LIGHTING:  
AN EXTERIOR LIGHT SHALL BE PROVIDED AT EXIT.

ELECTRICAL OUTLETS:  
EXTERIOR OUTLETS SHALL HAVE WEATHER PROOF COVERS.  
ELECTRICAL OUTLETS SHALL BE PLACED NOT FURTHER THAN 12' O.C. ON EVERY WALL AND SHALL BE PLACED ON WALLS GREATER THAN 2' IN LENGTH.



**ELECTRICAL PLAN**  
SCALE: 1/4" = 1'-0"

REVISIONS		
No.	DESCRIPTION	DATE

**SWEENEY RESIDENCE**  
1911 SHERWOOD, MANTEGA, CA 95336  
**PROPOSED GAME ROOM ADDITION**

INFORMATION	
OWNER NAME	JOE SWEENEY
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ELECTRICAL PLAN	
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**FOUNDATION PLAN**

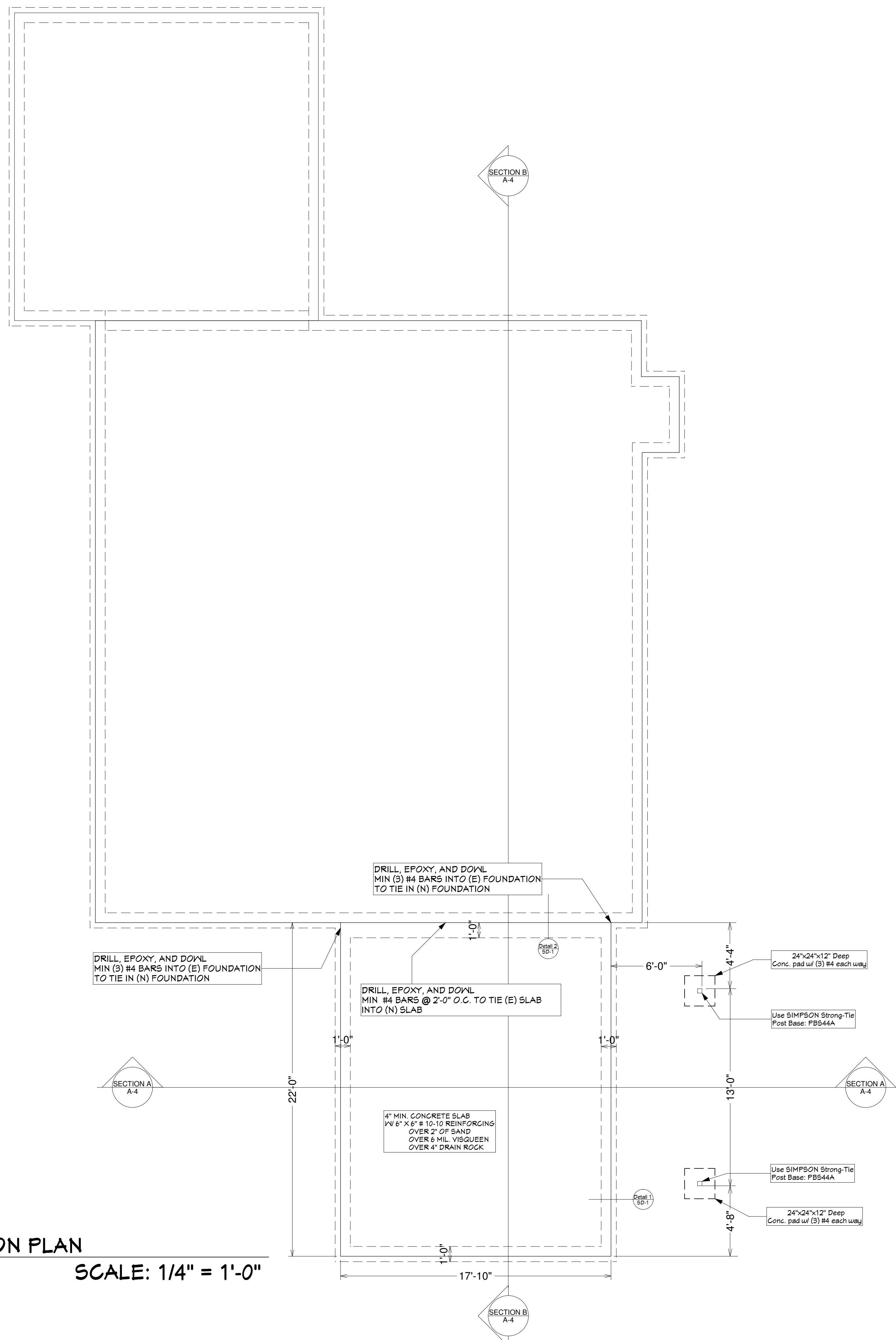
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**FOUNDATION PLAN NOTES:**

- See floor plan before pouring foundation for exact placement of all holdowns if applicable.
- All one-story footings to be 12" deep into firm, undisturbed, native soil.
- Concrete to withstand 2500 psi within 28 days w/4" max.
- Anchor bolts for sill plates shall be minimum 5/8" diameter w/ 3/16"x 3" square plate washers, embedded at least 7" into the concrete or masonry foundation, and shall be spaced no more than 4'-0" apart and not less than 12" from the ends of each plate.
- Foundation sills shall be treated wood, or foundation redwood.
- Fasteners for pressure-preservative treated wood shall be hot-dipped galvanized, stainless steel, silicon bronze, or copper.
- Provide 6" minimum vertical distance from grade to wood framing.
- Minimum 2% grade slope away from foundation.
- Holddown devices must be secured in place before foundation/holddown inspection.
- Where soles or plates are cut for pipes, a metal tie minimum 0.058" thick and 1 1/2" wide shall be fastened across the opening with (6) 1 6d nails minimum each side.
- plumbing walls are to be 2x6 studs to accommodate maximum allowable boring and notching provisions.

Foundation Steel:  
 4" conc. slabs:  
 w/ 6" x 6" # 10-10 reinforcing  
 Walls under 4'-0":  
 #4 rebar vert. at 48" o/c.  
 #4 rebar horiz. at 24" o/c.  
 Walls over 4'-0":  
 #4 rebar vert. and horiz. at 18" o/c.  
 Footings:  
 (2)#4 rebar continuous in footing.

**FOUNDATION PLAN**  
 SCALE: 1/4" = 1'-0"



### FRAMING PLAN NOTES:

1. Shearwalls to be continuous from foundation to roof diaphragm.
2. Shear all gable ends with 3/8" OSB or equivalent and 8d at 6" edges, 12" field.
3. Provide shear wall edge nailing to all posts which have hold downs
4. Provide 4x4 or 4x6 at all PHD's per plan
5. 2 x4 studs @ 16" O.C per plan.
6. All lumber in contact with concrete will be DF pressure treated
7. All plates shall have double top plates and be spliced a minimum of 48" for continuity
8. Comply with chapter 23 for conventional framing
9. Double joist under walls that run parallel to joist

### SHEAR WALL SCHEDULE

SHEAR WALL MARKER	SHEAR WALL MATERIAL	PLATE, MUDSILL & ALL OTHER EDGES	IN THE FIELD	PLATE SIZE	SOLE PLATE CONNECTION TO CONCRETE	SOLE PLATE CONNECTION TO WOOD FLOOR
1 X	3/8" CDX OR O.S.B ONE SIDE	8d @ 6" O.C.	8d @ 12" O.C.	2x	5/8" x 10" ANCHOR BOLTS W/ 3/16 x 3" SQUARE PLATE WASHERS	16D @ 6" O.C
2 X	3/8" CDX OR O.S.B ONE SIDE	8d @ 4" O.C.	8d @ 12" O.C.	2x	5/8" x 10" ANCHOR BOLTS W/ 3/16 x 3" SQUARE PLATE WASHERS	16D @ 6" O.C
3 X	3/8" CDX OR O.S.B BOTH SIDES	8d @ 4" O.C.	8d @ 12" O.C.	2x	5/8" x 10" ANCHOR BOLTS W/ 3/16 x 3" SQUARE PLATE WASHERS	16D @ 6" O.C

1, 2 OR 3 = SHEAR WALL SCHEDULE  
X = MINIMUM LENGTH OF SHEAR WALL

### ROOF FRAMING PLAN NOTES:

1. Use Simpson Brand H-1 clips for truss to top plate connections, use H2.5 clips for rafter to top plate connection. None bearing walls should be held down from the truss bottom chord w/ Simpson STC to insure that the truss bottom chord will not bear on the wall.
2. All trusses shall carry manufacturers stamp.
3. All trusses shall be installed & braced to manufacturers specifications.
4. All trusses will not be field altered without prior building department approval of engineering calculations.
5. All trusses shall have design details & drawings on site for framing inspection.
6. Trusses shall be designed to support furnace and furnace platforms. Catwalks to be elevated to provide clearance for insulation.
7. All roof framing 24" o.c.
8. Brace gable end trusses to ridge.
9. Roof Sheathing to be 1/2" OSB or CDX ply with 8d's @ 6" o.c. edge and 12" field.
10. Use double studs minimum under all beams/headers 6 feet or longer & multi-ply truss bearing locations unless noted otherwise.
11. Shear all gable ends with 3/8" OSB or equivalent and 8d at 6" edges, 12" field.
12. All top plates to have 48" min. lap @ splices with (16) 16d nails staggered per connection.
13. All beams to have positive connections (i.e. Simpson caps) to posts.
14. Installation of roofing shall be in accordance with manufacturer's specifications.
15. All posts to be carried down to foundation.
16. Provide 1" min. air gap at eaves with insulation baffles typ. at all truss bays.
17. Provide gable vents as shown on elevations.

### Attic Ventilation Needs:

Net Free Area Above Office = 392 sq ft

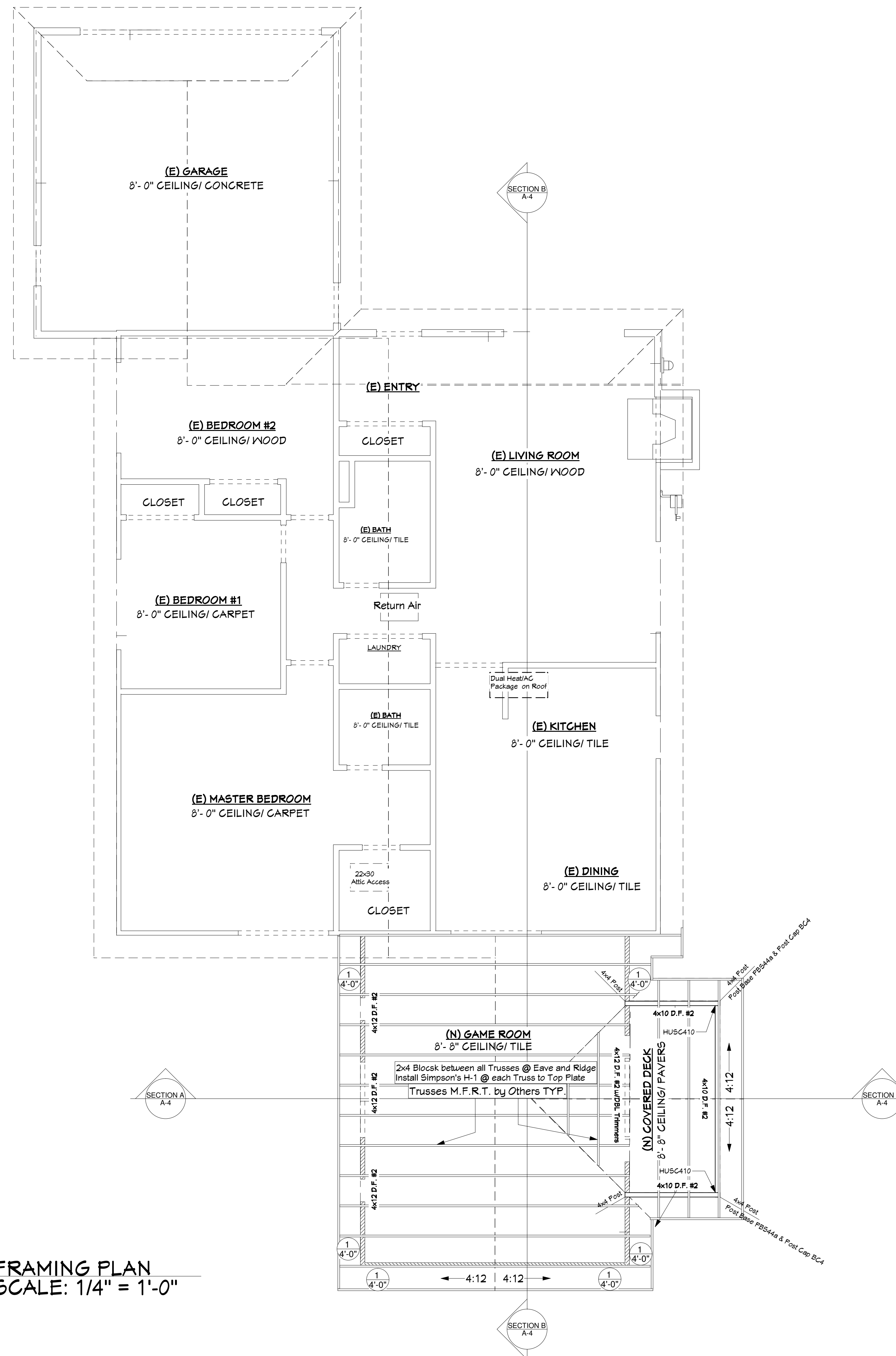
392 sq ft / 150 sq ft = 2.61 sq ft of Ventilation Required

Provide #1 14" x 22" Gable End Vent = 2.13 sq ft

Provide #2 Low Profile Eye Brow vents 4' x 14' = 52 sq ft per Eye Brow vent. 2 vents = 1.04 sq ft on roof top. Place one vent 2'-0" above plate line and other 2'-0" below ridge line to provide cross ventilation.

Total Ventilation Above Game Room Area = 2.13 sq ft + 1.04 sq ft = 3.17 sq ft

### ROOF & FRAMING PLAN SCALE: 1/4" = 1'-0"



### REVISIONS

No.	DESCRIPTION	DATE

## SWEENEY RESIDENCE

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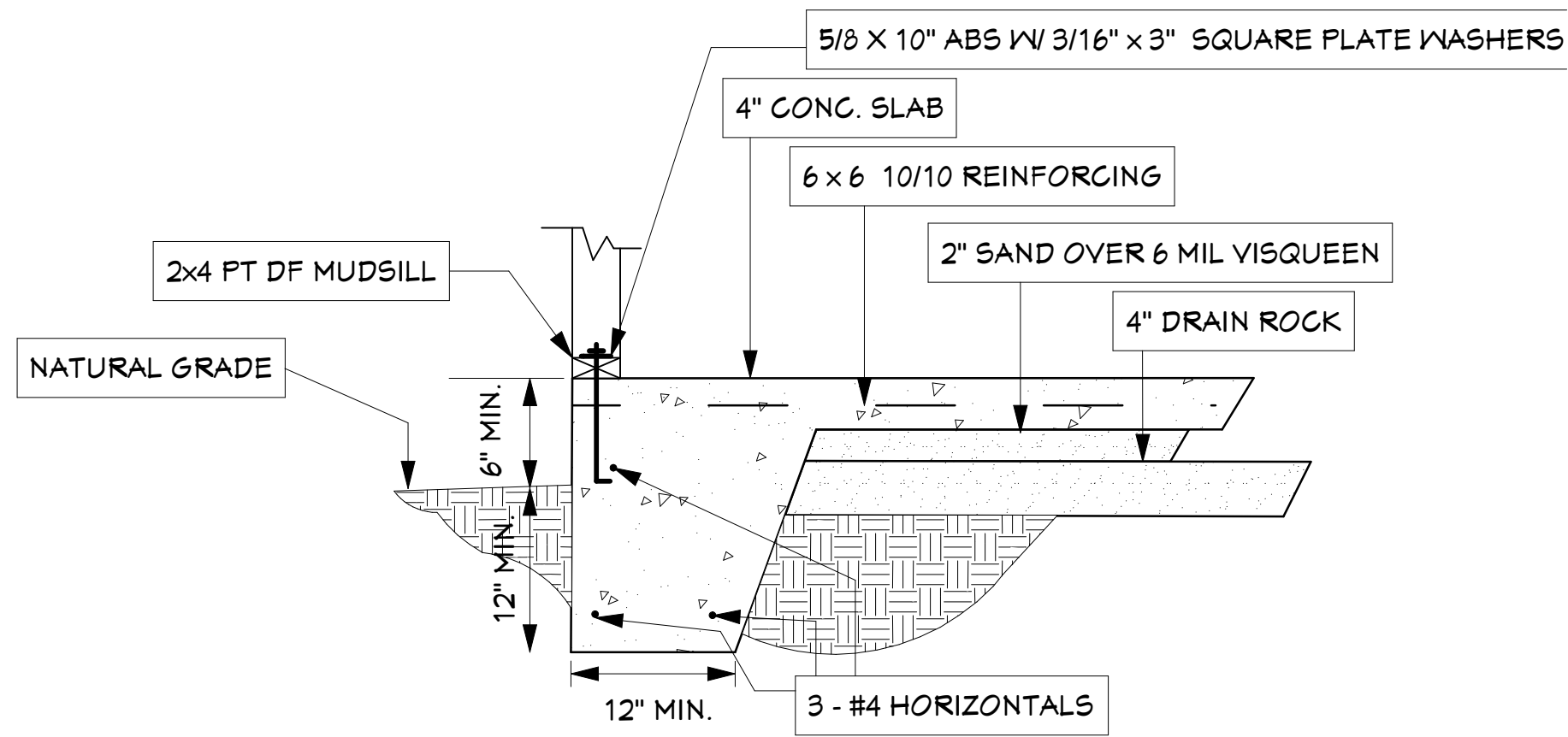
PROPOSED GAME ROOM ADDITION

### INFORMATION

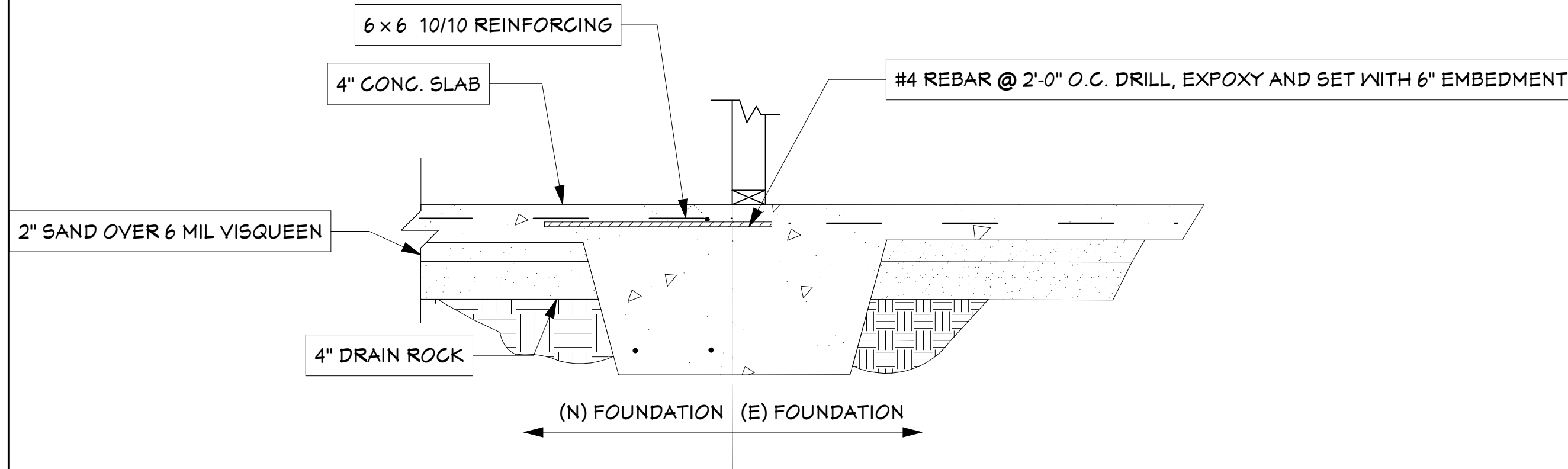
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### ROOF & FRAMING PLAN

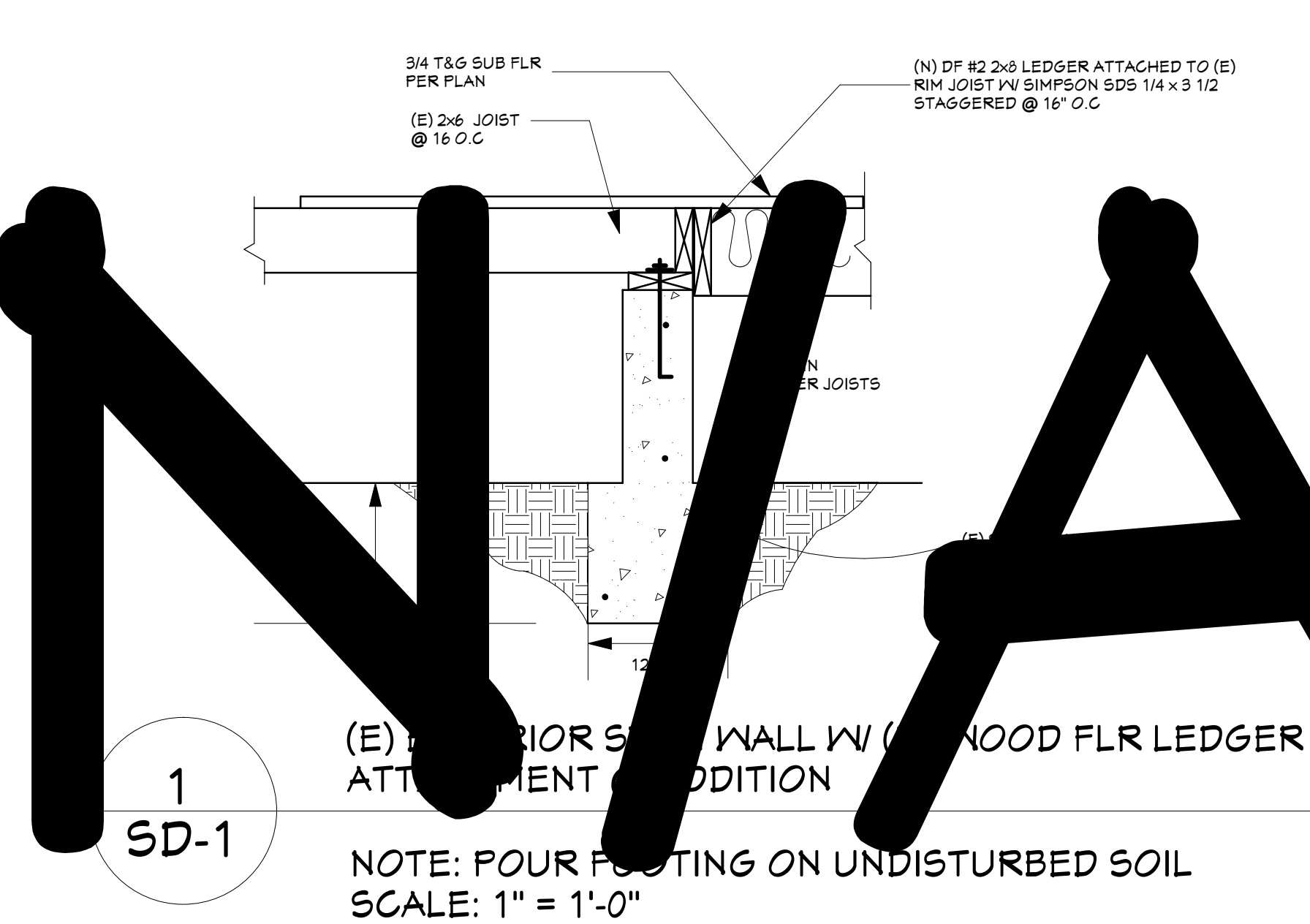
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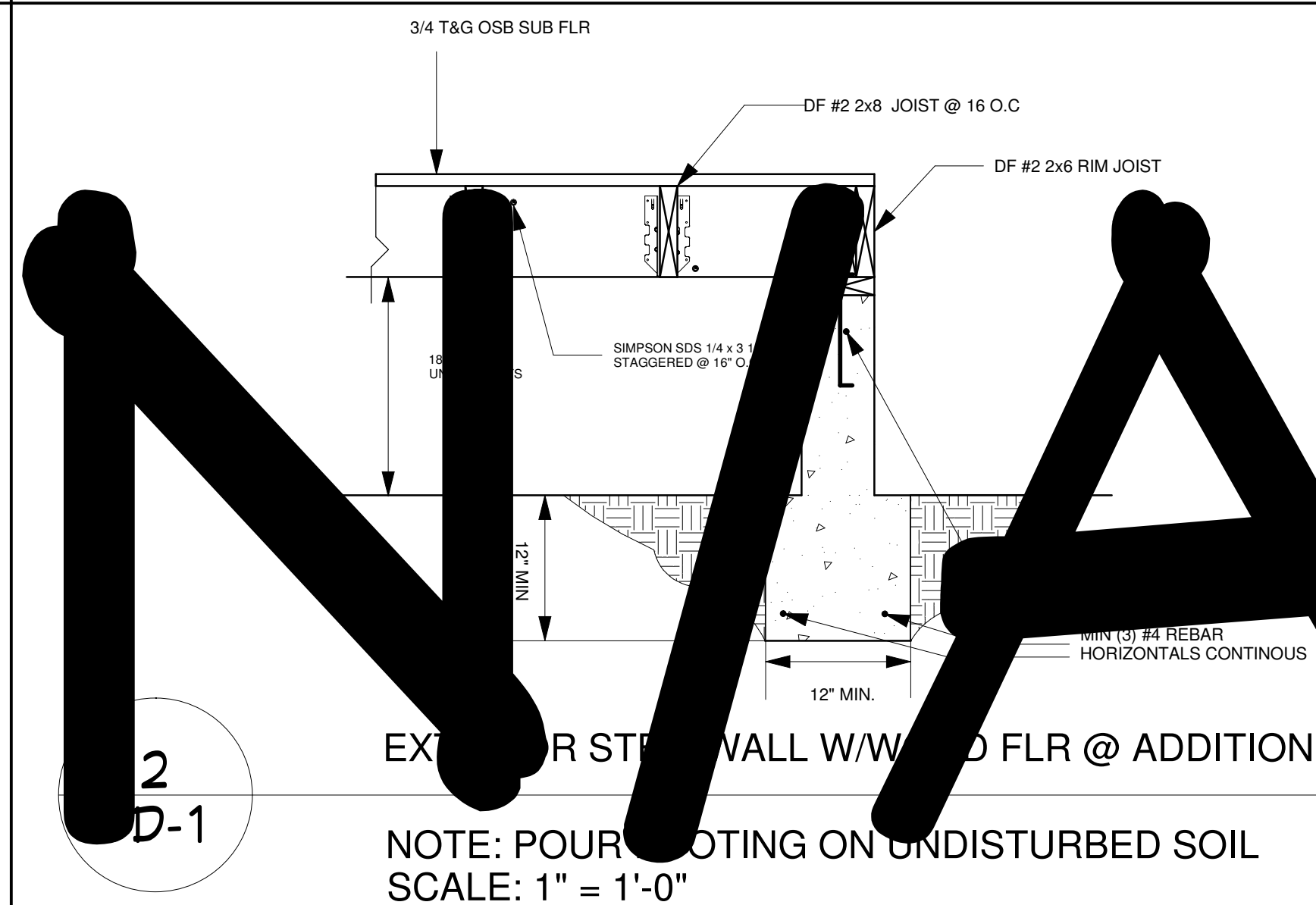
**Detail 1**  
SD-1  
ONE-STORY EDGE OF SLAB  
NOTE: POUR FOOTING ON UNDISTURBED SOIL  
SCALE: 1" = 1'-0"



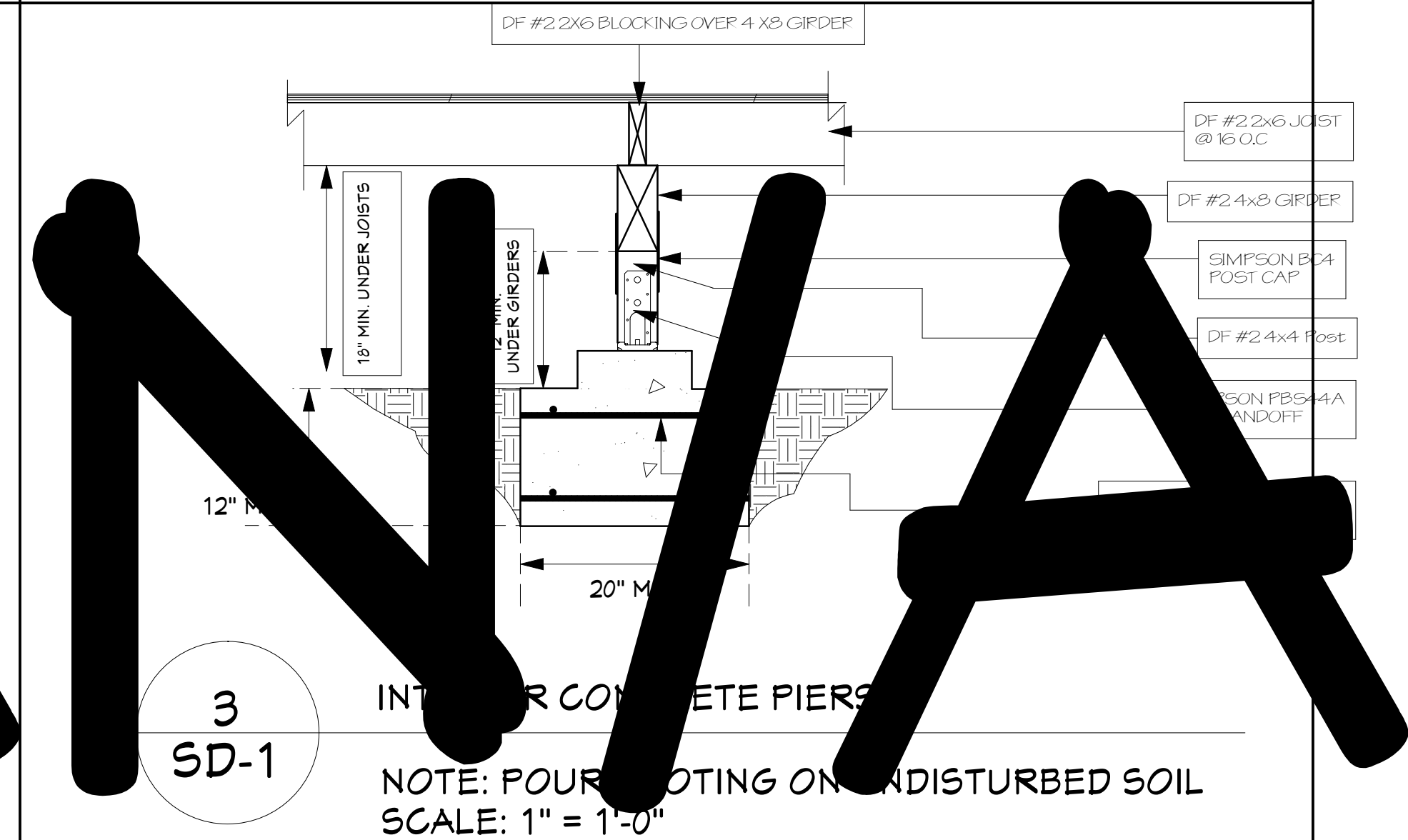
**Detail 2**  
SD-1  
ATTACHMENT OF (N) FOOTING TO (E) FOOTING  
NOTE: POUR FOOTING ON UNDISTURBED SOIL  
SCALE: 1" = 1'-0"



**1**  
SD-1  
(E) EXTERIOR WALL W/ WOOD FLR LEDGER ATTACHMENT @ ADDITION  
NOTE: POUR FOOTING ON UNDISTURBED SOIL  
SCALE: 1" = 1'-0"



**2**  
SD-1  
EXTERIOR STAIR WALL W/ WOOD FLR @ ADDITION  
NOTE: POUR FOOTING ON UNDISTURBED SOIL  
SCALE: 1" = 1'-0"



**3**  
SD-1  
INTERIOR CONCRETE PIERS  
NOTE: POUR FOOTING ON UNDISTURBED SOIL  
SCALE: 1" = 1'-0"

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**SWEENEY RESIDENCE**

1911 SHERWOOD, MANTEGA, CA 95336

PROPOSED GAME ROOM ADDITION

**INFORMATION**

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**DETAILS**

PAGE	SD-1
SHEET	8 OF 9

**TITLE 24 REPORT**

**Title 24 Report for:**  
Residence Addition  
1911 Sherwood Place  
Manteca, CA 95336

**Project Designer:**  
Mark Sweeney  
CA  
530 368-3640

**Report Prepared By:**  
Dale Cose  
Don Cose  
17 East 6th Street  
Tracy, CA 95376  
(209) 636-0422

**Job Number:**  
09-05-001

**Date:**  
5/13/2009

The EnergyPlus computer program has been used to perform the calculations summarized in this compliance report. This program has approval and is authorized by the California Energy Commission for use with both the Residential and Nonresidential 2008 Building Energy Efficiency Standards. This program developed by EnergyPlus, LLC - www.energyplus.com.

EnergyPlus 4.4 by EnergyPlus User Number: 6361 Job Number: 09-05-001 Page 2 of 8

**Certificate Of Compliance : Residential (Part 1 of 4) CF-1R**

Residence Addition  
1911 Sherwood Place, Manteca  
Date: 5/13/2009

Don Cose  
Project Address: 1911 Sherwood Place  
City/County/Zone: Manteca, CA 95336 Zone 12  
CA Climate Zone 12  
Fair Oaks/Golden

TOV	Standard Design	Proposed Design	Compliance Margin
Space Heating	56.87	32.96	23.91
Space Cooling	38.01	23.36	14.65
Fans	7.04	5.02	2.02
Domestic Hot Water	14.70	14.70	0.00
Pumps	0.00	0.00	0.00
<b>Totals</b>	<b>114.62</b>	<b>81.04</b>	<b>33.57</b>

Percent better than Standard: 29.3%

**BUILDING COMPLIES - NO HERS VERIFICATION REQUIRED**

Building Type:  Single Family  Multi-Family  Existing Floor Area: 1,440 ft<sup>2</sup>  
Building Foot Orientation: (NE) 6 deg Raised Floor Area: 1,440 ft<sup>2</sup>  
Fuel Type: Natural Gas Slab on Grade Area: 396 ft<sup>2</sup>  
Penetration: Area: 300 ft<sup>2</sup> Avg. U: 0.86 Number of Dwelling Units: 1.30  
Ratio: 20.8% Avg. SHGC: 0.63 Number of Stories: 1

**BUILDING ZONE INFORMATION**

Zone Name	Floor Area	Type	U-Value	Condition	Thermostat	Setpoint	Area
Residence System	1,440	1,100	Condensed	Subseq	1	2	396

**OPAQUE SURFACES**

Type	Frame	Area	U-Fac	Insulation	Carv	Cont	Asm	T/B	Y/N	Status	JA IV Reference	Location / Comments
Floor	Wood	1,440	0.238	None	R-0.0	0	0	0	0	0	0	1st Floor Zone
Wall	Wood	258	0.130	R-11	R-0.0	0	0	0	0	0	0	1st Floor Zone
Door	Wood	20	0.500	None	R-0.0	0	0	0	0	0	0	1st Floor Zone
Roof	Wood	272	0.130	R-11	R-0.0	0	0	0	0	0	0	1st Floor Zone
Roof	Wood	201	0.110	R-11	R-0.0	0	0	0	0	0	0	1st Floor Zone
Roof	Wood	140	0.130	R-11	R-0.0	0	0	0	0	0	0	1st Floor Zone
Roof	Wood	150	0.130	R-11	R-0.0	0	0	0	0	0	0	1st Floor Zone
Roof	Wood	360	0.075	R-30	R-0.0	0	0	0	0	0	0	1st Floor Zone

Run Initiation Time: 09/13/09 14:44:46 Run Code: 124221089  
EnergyPlus 4.4 by EnergyPlus User Number: 6361 Job Number: 09-05-001 Page 2 of 8

**Certificate Of Compliance : Residential (Part 2 of 4) CF-1R**

Residence Addition  
1911 Sherwood Place, Manteca  
Date: 5/13/2009

**FENESTRATION SURFACES**

#	Type	Area	U-Factor	SHGC	Transmittance	Cond	Glazing Type	Location/Comments
1	Window	10.00	0.230	0.75	0.80	0.00	0.00	1st Floor Zone
2	Window	10.00	0.230	0.75	0.80	0.00	0.00	1st Floor Zone
3	Window	10.00	0.230	0.75	0.80	0.00	0.00	1st Floor Zone
4	Window	10.00	0.230	0.75	0.80	0.00	0.00	1st Floor Zone
5	Window	10.00	0.230	0.75	0.80	0.00	0.00	1st Floor Zone
6	Window	10.00	0.230	0.75	0.80	0.00	0.00	1st Floor Zone
7	Window	10.00	0.230	0.75	0.80	0.00	0.00	1st Floor Zone
8	Window	10.00	0.230	0.75	0.80	0.00	0.00	1st Floor Zone
9	Window	10.00	0.230	0.75	0.80	0.00	0.00	1st Floor Zone
10	Window	10.00	0.230	0.75	0.80	0.00	0.00	1st Floor Zone
11	Window	10.00	0.230	0.75	0.80	0.00	0.00	1st Floor Zone
12	Window	10.00	0.230	0.75	0.80	0.00	0.00	1st Floor Zone
13	Window	10.00	0.230	0.75	0.80	0.00	0.00	1st Floor Zone
14	Window	10.00	0.230	0.75	0.80	0.00	0.00	1st Floor Zone
15	Window	10.00	0.230	0.75	0.80	0.00	0.00	1st Floor Zone
16	Window	10.00	0.230	0.75	0.80	0.00	0.00	1st Floor Zone
17	Window	10.00	0.230	0.75	0.80	0.00	0.00	1st Floor Zone
18	Window	10.00	0.230	0.75	0.80	0.00	0.00	1st Floor Zone
19	Window	10.00	0.230	0.75	0.80	0.00	0.00	1st Floor Zone
20	Window	10.00	0.230	0.75	0.80	0.00	0.00	1st Floor Zone

**INTERIOR AND EXTERIOR SHADING**

#	Exterior Shade Type	SHGC	U-Value	Area	Location/Comments
1	Roll Screen	0.78	0.80	1.00	1st Floor Zone
2	Roll Screen	0.78	0.80	1.00	1st Floor Zone
3	Roll Screen	0.78	0.80	1.00	1st Floor Zone
4	Roll Screen	0.78	0.80	1.00	1st Floor Zone
5	Roll Screen	0.78	0.80	1.00	1st Floor Zone
6	Roll Screen	0.78	0.80	1.00	1st Floor Zone
7	Roll Screen	0.78	0.80	1.00	1st Floor Zone
8	Roll Screen	0.78	0.80	1.00	1st Floor Zone
9	Roll Screen	0.78	0.80	1.00	1st Floor Zone
10	Roll Screen	0.78	0.80	1.00	1st Floor Zone
11	Roll Screen	0.78	0.80	1.00	1st Floor Zone

**THERMAL MASS FOR HIGH MASS DESIGN**

Type	Area	Thickness	U-Value	JA IV Reference	Condition	Location/Comments
Concrete	1,440	4.00	0.30	2	21A1	1st Floor Zone/Exterior Mass

**PERIMETER LOSSES**

Type	Length	R-Value	Location	JA IV Reference	Condition	Location/Comments
Slab Perimeter	58	None	No Insulation	25A1	Exterior	1st Floor Zone

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**Certificate Of Compliance : Residential (Part 3 of 4) CF-1R**

Residence Addition  
1911 Sherwood Place, Manteca  
Date: 5/13/2009

**HVAC SYSTEMS**

Location	Heating Type	Minimum EER	Cooling Type	Minimum EER	Condition Status	Thermostat Type
Furnace System	Central Furnace	70.0 AFUE	Package Air Conditioner	8.0 SEER	Existing	Subseq

**HVAC DISTRIBUTION**

Location	Heating Duct	Cooling Duct	Duct Location	Duct Condition	Ducts Tested?
Furnace System	Ducted	Un ducted	None	8.0 Existing	Yes

**Hydronic Piping**

System Name	Pipe Length	Pipe Diameter	Insul. Thickness

**WATER HEATING SYSTEMS**

System Name	Water Heater Type	# of Units	Rated Input (Btu/hr)	Tank Capacity (gal)	Condition Status	Energy Factor	Standby Loss (%)	Tank Insul. (R-Value)

**Multi-Family Central Water Heating Details**

Control	#	HP	Type	Hot Water Piping Length (ft)	Add 1/2" Insulation

**REMARKS**

**COMPLIANCE STATEMENT**

This certificate of compliance lists the building features and specifications needed to comply with Title 24, Parts 1 and 6 of the California Code of Regulations, and the administrative regulations to implement them. This certificate has been signed by the individual with overall design responsibility. The undersigned acknowledges that compliance with these requirements is the responsibility of the individual with overall design responsibility. The undersigned acknowledges that compliance with these requirements is the responsibility of the individual with overall design responsibility. The undersigned acknowledges that compliance with these requirements is the responsibility of the individual with overall design responsibility.

Name: Mark Sweeney Date: 5/13/2009  
Address: 17 East 6th Street Tracy, CA 95376 Telephone: (209) 636-0422  
Signature: Dale Cose  
Title: Designer  
Address: 17 East 6th Street Tracy, CA 95376 Telephone: (209) 636-0422  
Signature: Don Cose  
Title: Designer  
Address: 17 East 6th Street Tracy, CA 95376 Telephone: (209) 636-0422

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**Certificate Of Compliance : Residential (Part 4 of 4) CF-1R**

Residence Addition  
1911 Sherwood Place, Manteca  
Date: 5/13/2009

**Special Features and Modeling Assumptions**

The local enforcement agency should pay special attention to the items specified in this checklist. These items require special justification and documentation, and special verification to be used with the performance approach. The local enforcement agency determines the adequacy of the justification, and may reject a building or design that otherwise complies based on the adequacy of the special justification and documentation submitted.

Item	Plan	Field
The Existing Furnace (1) HVAC has an AFUE less than the Table 9B-11 CEI Default Vintage Values.		

**HERS Required Verification**

Items in this section require field testing and/or verification by a certified home energy rater under the supervision of a HERS provider using approved testing and/or verification methods.

Item	Plan	Field
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Run Initiation Time: 09/13/09 14:44:46 Run Code: 124221089  
EnergyPlus 4.4 by EnergyPlus User Number: 6361 Job Number: 09-05-001 Page 5 of 8

**Mandatory Measures Summary: Residential (Page 1 of 2) MF-1R**

NOTE: Lower-level measures subject to the Standards must contain these measures regardless of the compliance approach used. More stringent measures requirements from the Certificate of Compliance supersede the items marked with an asterisk (\*) below. When this checklist is incorporated into the permit documents, the measures listed shall be considered to be included in all plans and specifications submitted for the mandatory measures whether they are shown elsewhere in the documents or on this checklist only.

DESCRIPTION	Check or initial applicable boxes or check N/A if not applicable and included with the permit application documentation.	NA	DESIGNED	INSTALLED
<b>Building Envelope Measures</b>				
1. Minimum R-19 on wood ceiling insulation or equivalent U-factor in metal beam ceiling.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Minimum R-19 on exterior wall insulation or equivalent U-factor in metal beam ceiling.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Minimum R-13 on exterior wall insulation or equivalent U-factor in metal beam ceiling.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Minimum R-13 on exterior wall insulation or equivalent U-factor in metal beam ceiling.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Minimum R-13 on exterior wall insulation or equivalent U-factor in metal beam ceiling.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Minimum R-13 on exterior wall insulation or equivalent U-factor in metal beam ceiling.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Minimum R-13 on exterior wall insulation or equivalent U-factor in metal beam ceiling.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Minimum R-13 on exterior wall insulation or equivalent U-factor in metal beam ceiling.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Minimum R-13 on exterior wall insulation or equivalent U-factor in metal beam ceiling.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Minimum R-13 on exterior wall insulation or equivalent U-factor in metal beam ceiling.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Minimum R-13 on exterior wall insulation or equivalent U-factor in metal beam ceiling.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Minimum R-13 on exterior wall insulation or equivalent U-factor in metal beam ceiling.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. Minimum R-13 on exterior wall insulation or equivalent U-factor in metal beam ceiling.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14. Minimum R-13 on exterior wall insulation or equivalent U-factor in metal beam ceiling.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15. Minimum R-13 on exterior wall insulation or equivalent U-factor in metal beam ceiling.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16. Minimum R-13 on exterior wall insulation or equivalent U-factor in metal beam ceiling.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17. Minimum R-13 on exterior wall insulation or equivalent U-factor in metal beam ceiling.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18. Minimum R-13 on exterior wall insulation or equivalent U-factor in metal beam ceiling.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
19. Minimum R-13 on exterior wall insulation or equivalent U-factor in metal beam ceiling.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20. Minimum R-13 on exterior wall insulation or equivalent U-factor in metal beam ceiling.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21. Minimum R-13 on exterior wall insulation or equivalent U-factor in metal beam ceiling.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22. Minimum R-13 on exterior wall insulation or equivalent U-factor in metal beam ceiling.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
23. Minimum R-13 on exterior wall insulation or equivalent U-factor in metal beam ceiling.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
24. Minimum R-13 on exterior wall insulation or equivalent U-factor in metal beam ceiling.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
25. Minimum R-13 on exterior wall insulation or equivalent U-factor in metal beam ceiling.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
26. Minimum R-13 on exterior wall insulation or equivalent U-factor in metal beam ceiling.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
27. Minimum R-13 on exterior wall insulation or equivalent U-factor in metal beam ceiling.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
28. Minimum R-13 on exterior wall insulation or equivalent U-factor in metal beam ceiling.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
29. Minimum R-13 on exterior wall insulation or equivalent U-factor in metal beam ceiling.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
30. Minimum R-13 on exterior wall insulation or equivalent U-factor in metal beam ceiling.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
31. Minimum R-13 on exterior wall insulation or equivalent U-factor in metal beam ceiling.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
32. Minimum R-13 on exterior wall insulation or equivalent U-factor in metal beam ceiling.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
33. Minimum R-13 on exterior wall insulation or equivalent U-factor in metal beam ceiling.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
34. Minimum R-13 on exterior wall insulation or equivalent U-factor in metal beam ceiling.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
35. Minimum R-13 on exterior wall insulation or equivalent U-factor in metal beam ceiling.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
36. Minimum R-13 on exterior wall insulation or equivalent U-factor in metal beam ceiling.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
37. Minimum R-13 on exterior wall insulation or equivalent U-factor in metal beam ceiling.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
38. Minimum R-13 on exterior wall insulation or equivalent U-factor in metal beam ceiling.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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42. Minimum R-13 on exterior wall insulation or equivalent U-factor in metal beam ceiling.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
43. Minimum R-13 on exterior wall insulation or equivalent U-factor in metal beam ceiling.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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66. Minimum R-13 on exterior wall insulation or equivalent U-factor in metal beam ceiling.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
67. Minimum R-13 on exterior wall insulation or				