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Daniel Shaheen
Daniel Shaheen

February 15, 2007



ARCHITECTURAL
DESIGN
P.O. BOX 272
LAKE CITY FL 32056
(386) 754-0811

CONSTRUCTION
DOCUMENTS BY:

ENGINEERED BY:

A CUSTOM HOME BY DON REED CONSTRUCTION:

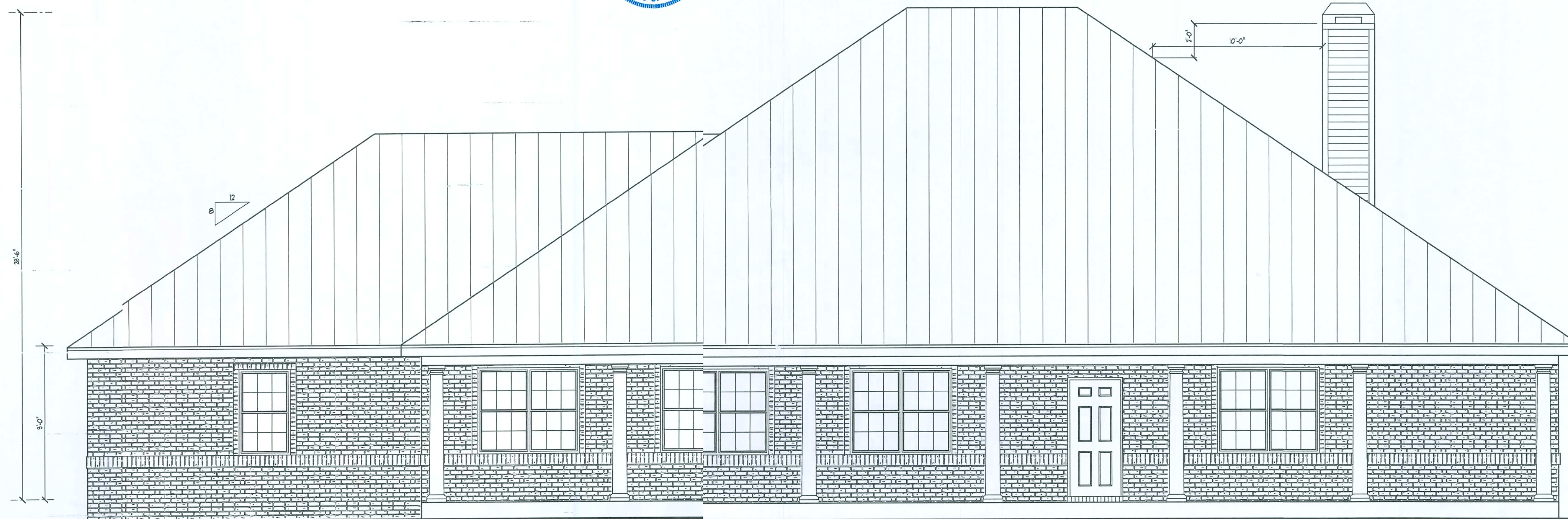
WAGONER RESIDENCE

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EXTERIOR ELEVATIONS

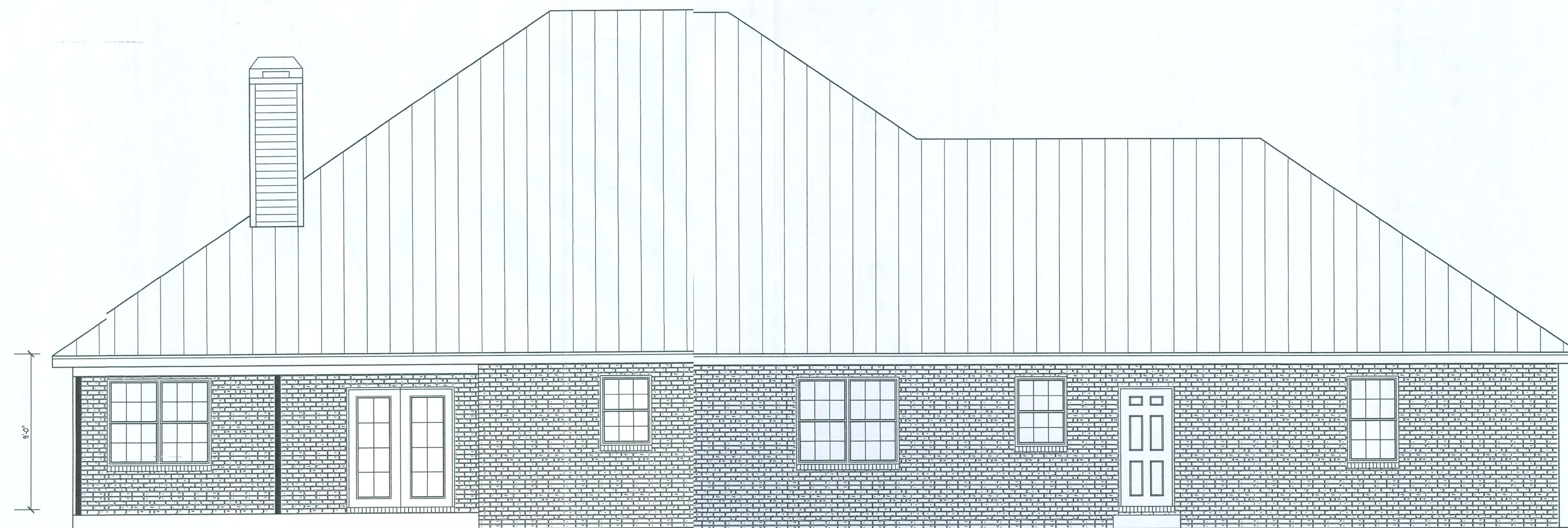
SHEET NUMBER
1 of 4

All work shall comply with the standard building code, and all applicable local codes and ordinances.
Contractor shall verify all dimensions prior to commencing construction.



FRONT ELEVATION

SCALE: 1/4" = 1'



REAR ELEVATION

SCALE: 1/4" = 1'

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Daniel Shaheen

February 05, 2006



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P.O. Box 273
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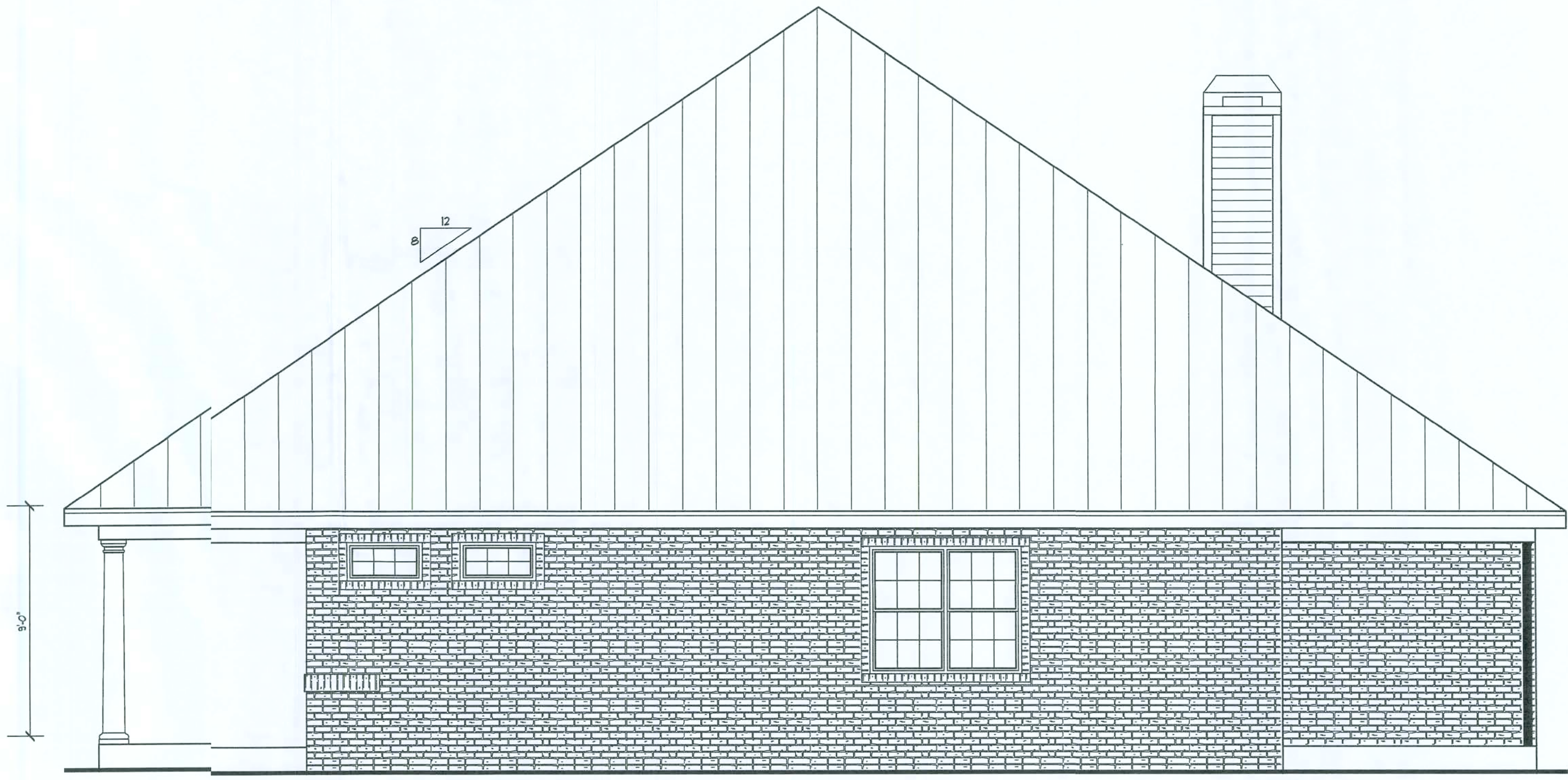
ELEVATIONS
TYPICAL WALL SECTION
ROOF

SHEET NUMBER
2 of 4

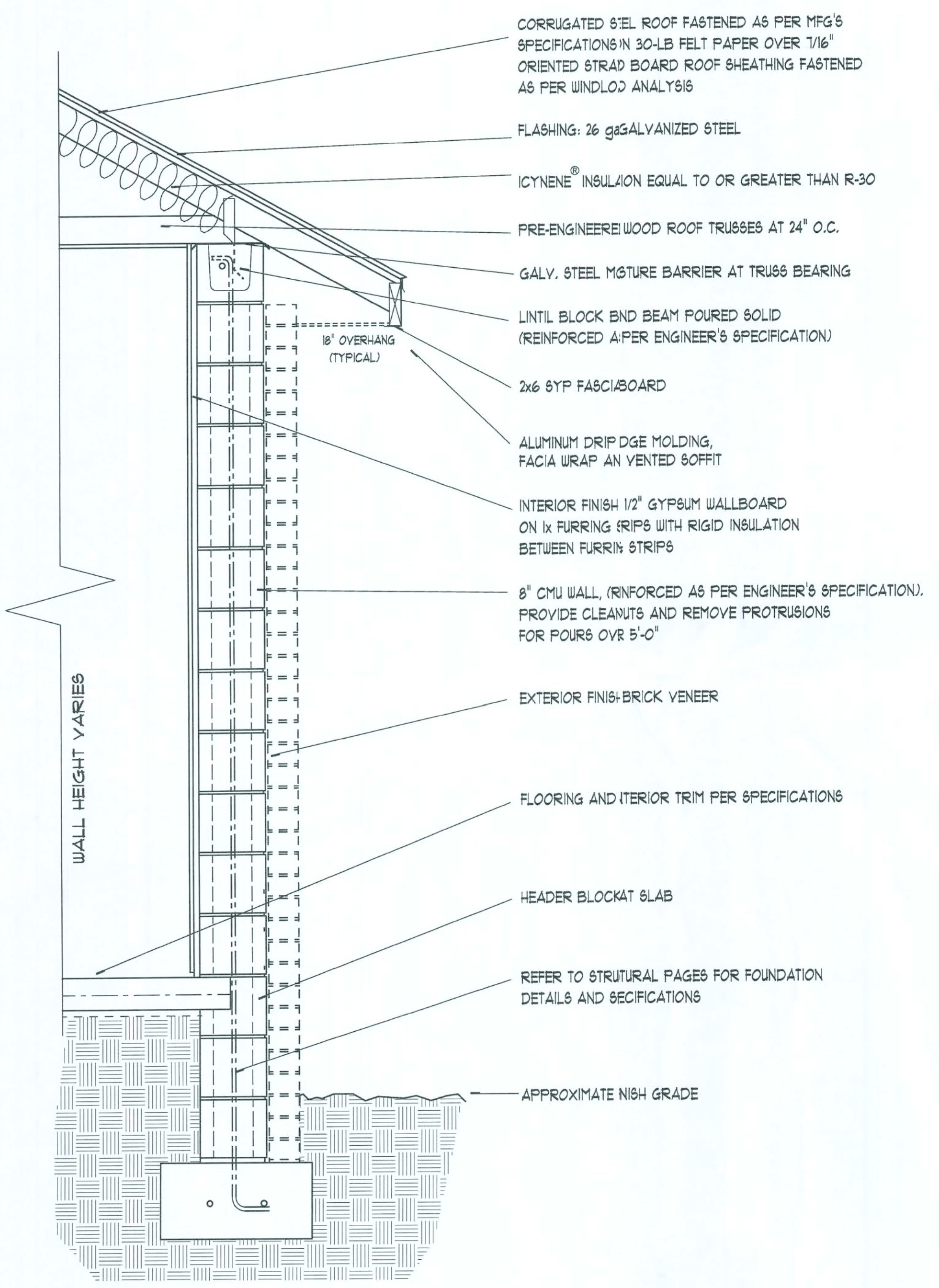
All work shall comply with the standard building codes, and all applicable local codes and ordinances.
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LEFT ELEVATION
SCALE: 1/4" = 1'



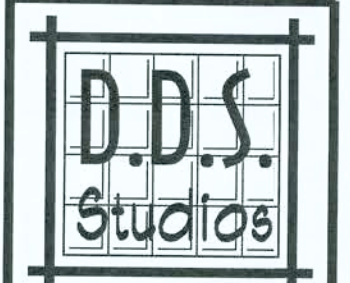
RIGHT ELEVATION
SCALE: 1/4" = 1'



TYPICAL WALL SECTION
SCALE: 1" = 1'

Daniel Shaheen
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February 05, 200



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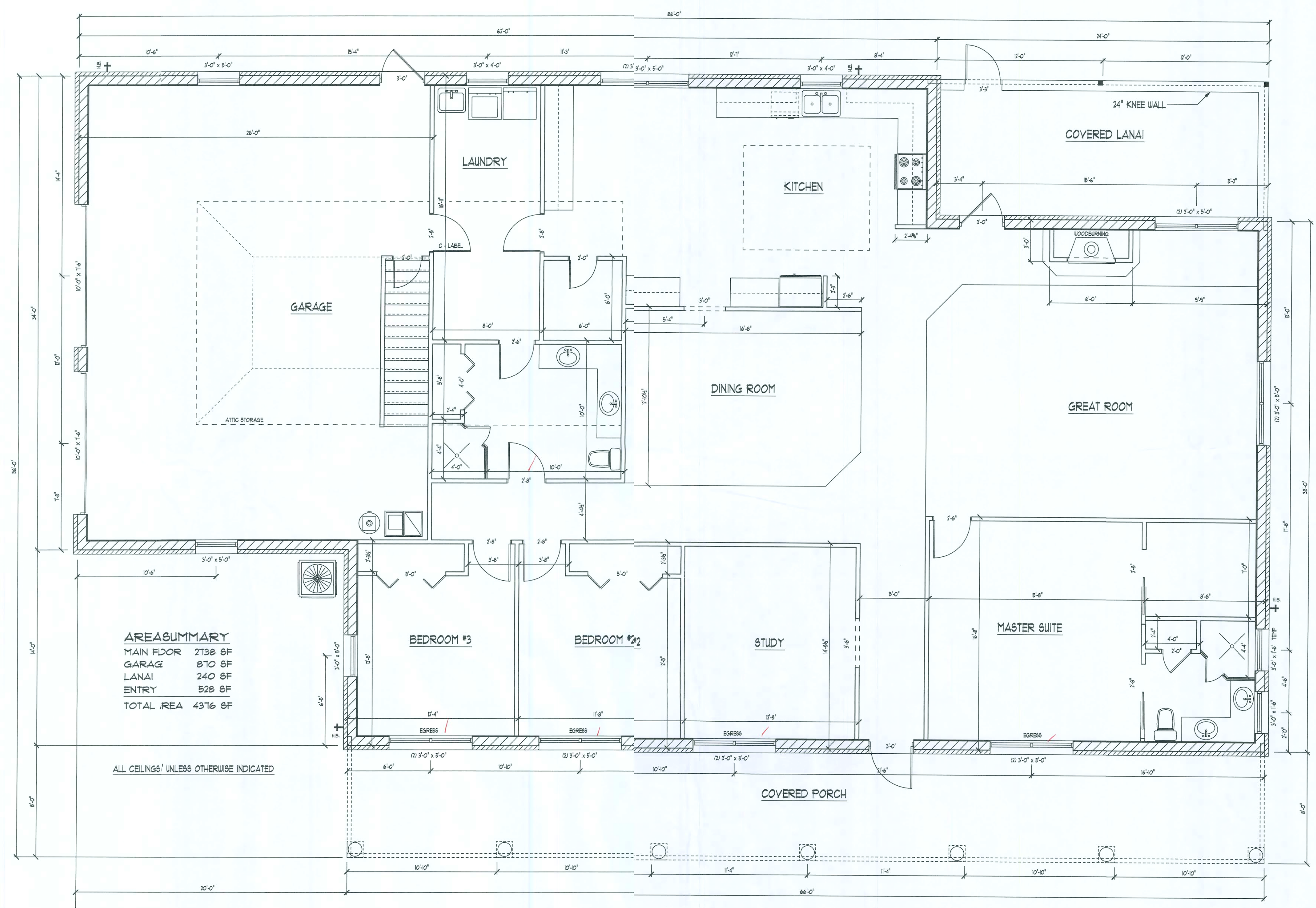
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FLOOR PLAN

SHEET NUMBER
3 of 4

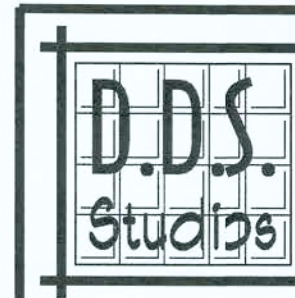
All work shall comply with
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and all applicable local
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Contractor shall verify all
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commencing construction.



FLOOR PLAN
SCALE: 1/4" = 1'

Daniel Shahseen
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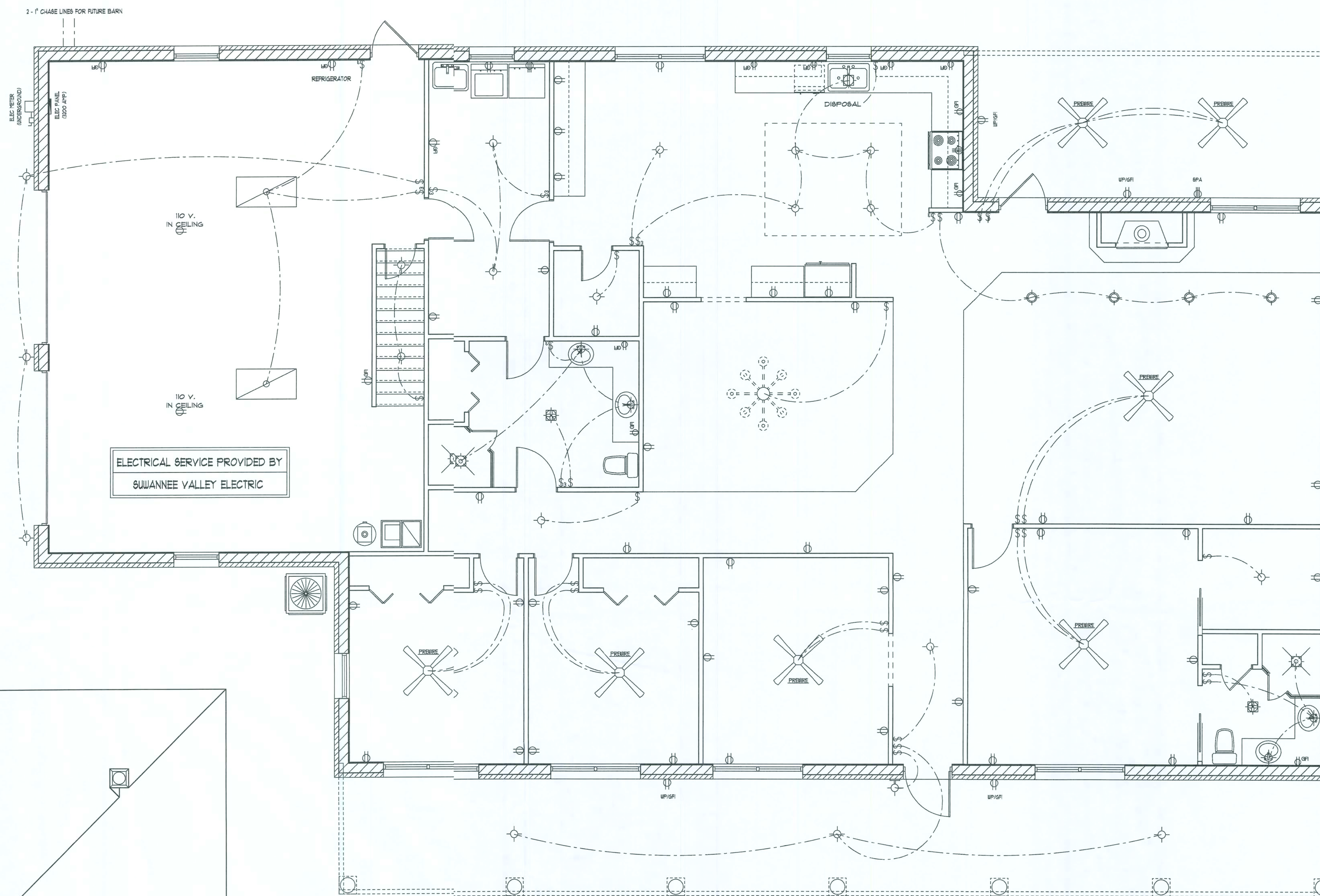
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ELECTRICAL PLAN

ROOF PLAN

SHEET NUMBER
4 of 4

All work shall comply with the standard building code, and all applicable local codes and ordinances.
Contractor shall verify all dimensions prior to commencing construction.



ELECTRICAL PLAN
SCALE: 1/4" = 1'

ELECTRICAL PLAN NOTES

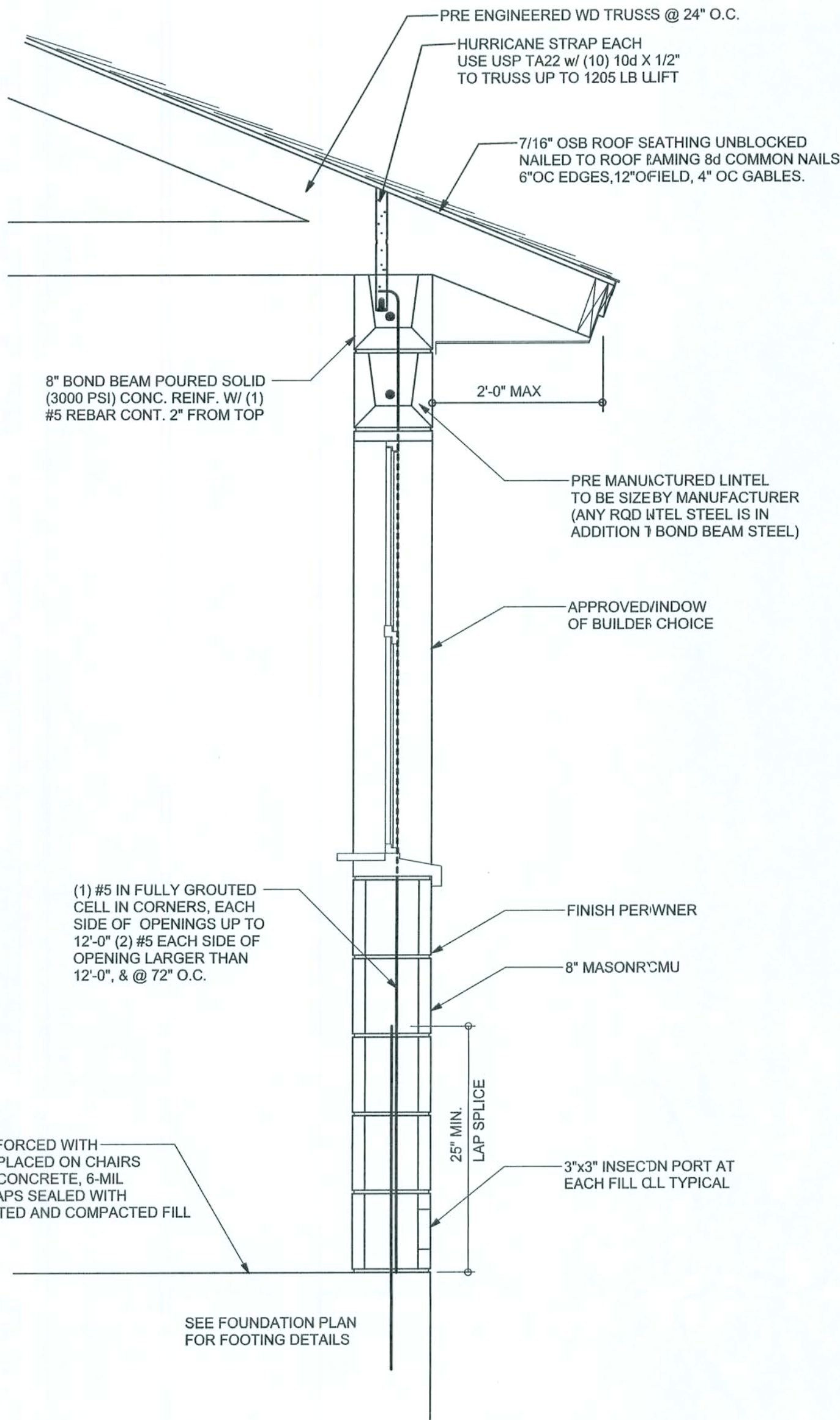
- E-1 ALL WORK SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE, LATEST EDITION, AND ALL OTHER APPLICABLE LOCAL CODES AND ORDINANCES.
- E-2 NOTE: ALL SMOKE DETECTORS TO BE WIRED TOGETHER TO ACTUATE ALL ALARMS IF ANY ONE UNIT IS ACTUATED.
- E-3 PROVIDE WIRING AS REQUIRED FOR APPLIANCES, AIR CONDITIONING, HEATING AND WATER HEATING EQUIPMENT.
- E-4 ALL BEDROOM RECEPTACLES SHALL BE AFCI (ARC FAULT CIRCUIT INTERRUPT).

NOTE:
THIS ELECTRICAL PLAN IS A SCHEMATIC WITH SUGGESTED SWITCH, RECEPTACLE, AND LIGHT FIXTURE LOCATIONS. DUE TO VARYING LOCAL AND STATE CODES, REGULATIONS, AND STATUTES, IT IS THE RESPONSIBILITY OF THE OWNER AND/OR CONTRACTOR TO COMPLY WITH ALL LOCAL AND STATE CODES, REGULATIONS AND STATUTES.

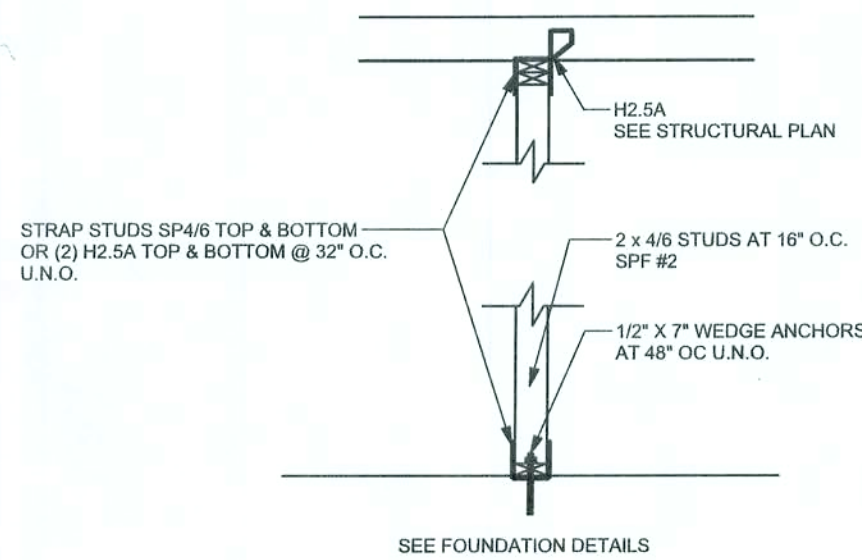
ROOF PLAN NOTES

- R-1 ALL ROOF PITCH 6/12
- R-2 ALL OVERHANG 18" AND 12" AT GABLES UNLESS OTHERWISE NOTED
- R-3 PROVIDE ATTIC VENTILATION IN ACCORDANCE WITH CODE REQUIREMENTS
- R-4 SEE EXTERIOR ELEVATIONS AND FLOOR PLANS TO VERIFY PLATE AND KEE, HEIGHTS
- R-5 MOVE ALL VENTS AND OTHER ROOF PENETRATIONS TO REAR

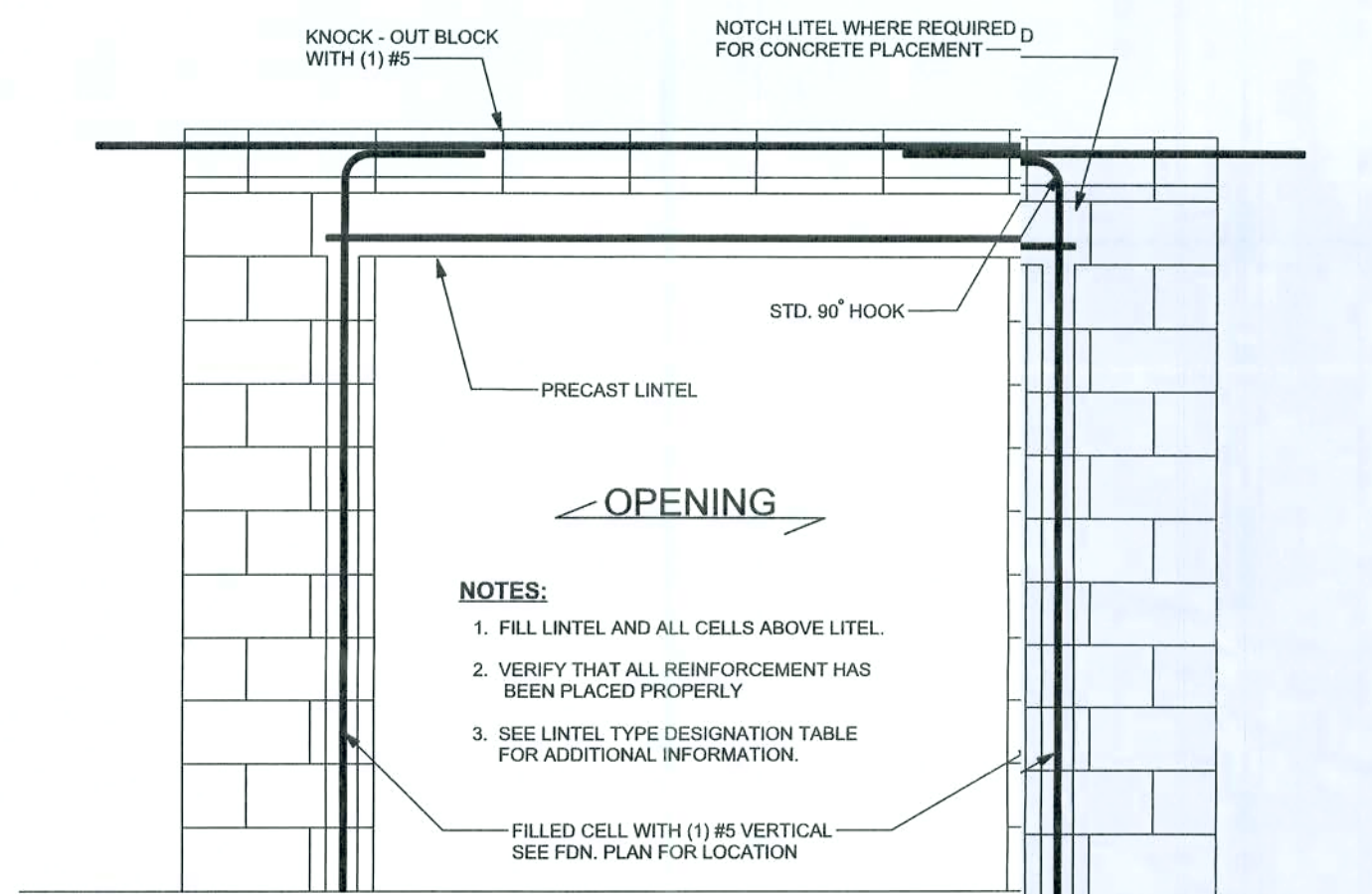
ROOF PLAN
SCALE: 1/8" = 1'



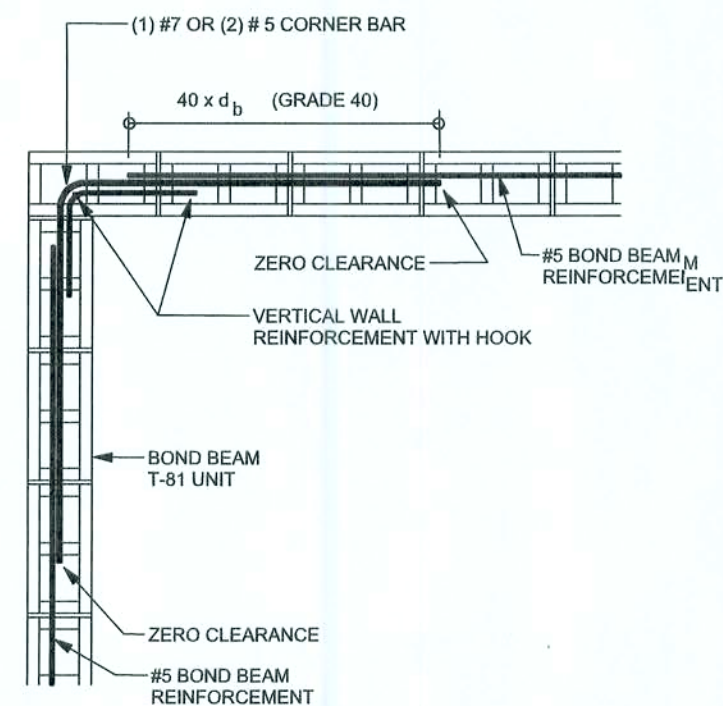
TYPICAL 1 STORY BLOCK WALL SECTION
SCALE: 1/2" = 1'-0"



INTERIOR BEARING WALL
SCALE: 1/2" = 1'-0"



TYPICAL FILLED LINTEL ASSEMBLY
SCALE: 1/2" = 1'-0"



TYPICAL BOND BEAM CORNER DETAIL
SCALE: 1/2" = 1'-0"

MASONRY TRUSS ANCHOR TABLE

OBTAIN UPLIFT REQUIREMENTS FROM TRUSS MANUFACTURER'S ENGINEERING

UPLIFT LBS.	TRUSS CONNECTOR FOR MASONRY *	UPLIFT LBS. SPF
< 1205	TA2-22	10-10d x 1 1/2"
< 1605	TA2-22	11-10d
< 850	MTSM20	4 - 1/4"x2 1/4" TITEN IN BLOCK 7 - 10d IN TRUSS
< 1175	HTSM20	4 - 1/4"x2 1/4" TITEN IN BLOCK 10 - 10d IN TRUSS
< 1040	META20	7-10d, 1 1/2"
< 1490	META20	10-10d, 1 1/2"
< 1780	HETA20	7-16d
< 1780	LGT-T2	7 - 1/4"x2 1/4" TITEN IN BLOCK 14 - 16d SINKER IN GIRDER
< 2130	HHET-TA20	17-10d, 1 1/2"
< 2310	HHET-TA24	21-10d, 1 1/2"
< 3965	MG-T	22-10d TO TRUSS 5/8 AB TO WALL 15" EMBEDMENT
< 10980	HGT-T-2	16-10d TO TRUSS (2) 3/4 AB TO WALL 15" EMBEDMENT
< 10530	HGT-T-3	16-10d TO TRUSS (2) 3/4 AB TO WALL 15" EMBEDMENT

ANCHOR TABLE

OBTAIN UPLIFT REQUIREMENTS FROM TRUSS MANUFACTURER'S ENGINEERING

UPLIFT LBS. SYP	UPLIFT LBS. SPF	TRUSS CONNECTOR*	TO PLATES	TO RAFTER/TRUSS	TO STUDS
< 420	< 245	H5A	3-8d	3-8d	
< 455	< 265	H5	4-8d	4-8d	
< 380	< 235	H4	4-8d	4-8d	
< 455	< 320	H3	4-8d	4-8d	
< 415	< 365	H2.5A	5-8d	5-8d	
< 600	< 535	H2.5A	5-8d	5-8d	
< 950	< 820	H6	8-8d	8-8d	
< 745	< 565	H8	5-10d, 1 1/2"	5-10d, 1 1/2"	
< 1465	< 1050	H14-1	13-8d	12-8d, 1 1/2"	
< 1465	< 1050	H14-2	15-8d	12-8d, 1 1/2"	
< 990	< 850	H10-1	8-8d, 1 1/2"	8-8d, 1 1/2"	
< 780	< 655	H10-2	6-10d	6-10d	
< 1470	< 1265	H16-1	10-10d, 1 1/2"	2-10d, 1 1/2"	
< 1470	< 1265	H16-2	10-10d, 1 1/2"	2-10d, 1 1/2"	
< 1000	< 860	MTS24C	7-10d 1 1/2"	7-10d 1 1/2"	
< 1450	< 1245	HTS24	12-10d 1 1/2"	12-10d 1 1/2"	
< 2500	< 2490	2 - HTS24			
< 2050	< 1785	LGT2	14-16d	14-16d	
HEAVY GIRDER TIEDOWNS*					
< 3965	< 3330	MG-T		22-10d	1-5/8" THREADED ROD 12" EMBEDMENT
< 10980	< 6485	HGT-2		16-10d	2-5/8" THREADED ROD 12" EMBEDMENT
< 10530	< 6035	HGT-3		16-10d	2-5/8" THREADED ROD 12" EMBEDMENT
< 9250	< 9250	HGT-4		16-10d	2-5/8" THREADED ROD 12" EMBEDMENT
STUD STRAP CONNECTOR*					
< 435	< 435	SSP DOUBLE TOP PLATE	3-10d		4-10d
< 455	< 420	SSP SINGLE SILL PLATE	1-10d		4-10d
< 825	< 825	DSP DOUBLE TOP PLATE	6-10d		8-10d
< 825	< 600	DSP SINGLE SILL PLATE	2-10d		8-10d
< 885	< 760	SP4		6-10d, 1 1/2"	
< 1240	< 1065	SPH4		10-10d, 1 1/2"	
< 885	< 760	SP6		6-10d, 1 1/2"	
< 1240	< 1065	SPH6		10-10d, 1 1/2"	
< 1235	< 1165	LSTA18	14-10d		
< 1235	< 1235	LSTA21	16-10d		
< 1030	< 1030	CS20	16-8d		
< 1705	< 1705	CS16	28-8d		
STUD ANCHORS*					
< 1350	< 1305	LTT19	8-16d		1/2" AB
< 2310	< 2310	LTTD19	18-10d, 1 1/2"		1/2" AB
< 2775	< 2570	HD2A	2-5/8" BOLTS		5/8" AB
< 4175	< 3695	HTT16	18-16d		5/8" AB
< 1400	< 1400	PAHD2	16-16d		
< 3335	< 3335	HPHD22	16-16d		
< 2200	< 2200	ABU44	12-16d		1/2" AB
< 2300	< 2300	ABU66	12-16d		1/2" AB
< 2320	< 2320	ABU88	18-16d		2-5/8" AB

GRADE & SPECIES TABLE

		Fb (psi)	E (10 ⁶ psi)
2x8	SYP #2	1200	1.6
2x10	SYP #2	1050	1.6
2x12	SYP #2	975	1.6
GLB	24F-V3 SP	2400	1.8
LSL	TIMBERSTRAND	1700	1.7
LVL	MICROLAM	2900	2.0
PSL	PARALAM	2900	2.0

EXTERIOR WALL STUD TABLE FOR SPF #2 STUDS

(1) 2x4 @ 16" OC	TO 10'-9" WALL HEIGHT
(1) 2x4 @ 12" OC	TO 13'-0" WALL HEIGHT
(1) 2x6 @ 16" OC	TO 18'-10" WALL HEIGHT
(1) 2x6 @ 12" OC	TO 20'-0" WALL HEIGHT

GENERAL NOTES:

TRUSSES: TRUSSER SHALL BE DESIGNED BY A FLORIDA LICENSED ENGINEER IN ACCORDANCE WITH THE FBCR 2004. TRUSS ENGINEERING SHALL INCLUDE TRUSS DESIGN, PLACEMENT PLANS, TEMPORARY AND PERMANENT BRACING DETAILS, TRUSS TO TRUSS CONNECTIONS, AND UPLIFT AND REACTION LOADS FOR ALL BEARING LOCATIONS. TRUSS ENGINEERING IS THE RESPONSIBILITY OF THE TRUSS MANUFACTURER AND SHALL BE SIGNED & SEALED BY THE MANUFACTURER'S DESIGN ENGINEER. IT IS THE BUILDER'S RESPONSIBILITY TO VERIFY THE TRUSS DESIGNER FULLY SATISFIED ALL THE ABOVE REQUIREMENTS AND TO SELECT UPLIFT CONNECTIONS BASED ON TRUSS ENGINEERING UPLIFT AND PROVIDE FOOTINGS FOR REVIEW OF TRUSS REACTIONS ON THE BUILDING STRUCTURE. STRAP 2X6 RAFTERS WITH MIN UPLIFT CONNECTION 4 IN EACH END, 2X6 RAFTERS 10 LB EACH END.

SITE PREPARATION: SITE ANALYSIS AND PREPARATION IS NOT PART OF THIS PLAN

FOUNDATION: CONFIRM THAT THE FOUNDATION DESIGN & SITE CONDITIONS MEET GRAVITY LOAD REQUIREMENTS (ASSUME 1000 PSF BEARING CAPACITY UNLESS VISUAL OBSERVATION OR SOILS TEST PROVES OTHERWISE)

CONCRETE: MINIMUM COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS, $F_c = 3000$ PSI.

WELDED WIRE REINFORCED SLAB: 6" x 6" W1.4 x W1.4, FB = 80KSI, WELDED WIRE REINFORCEMENT FABRIC (W.W.M.) CONFORMING TO ASTM A185, LOCATED IN MIDDLE OF THE SLAB; SUPPORTED WITH APPROVED MATERIALS OR SUPPORTS AT SPACINGS NOT TO EXCEED 3'.

FIBER CONCRETE SLAB: CONCRETE SLABS ON GROUND CONTAINING SYNTHETIC FIBER REINFORCEMENT. FIBER LENGTH 1/2 INCH TO 2 INCHES. DOSAGE AMOUNTS FROM 0.75 TO 1.5 POUNDS PER CUBIC YARD PER THE MANUFACTURER'S RECOMMENDATIONS. FIBERS TO COMPLY WITH ASTM C 1116. SUPPLIER TO PROVIDE ASTM C 1116 CERTIFICATION OF COMPLIANCE WHEN REQUESTED BY BUILDING OFFICIAL.

CONTROL JOINTS: WHERE SPECIFIED, SAWN CONTROL JOINTS IN SLAB-ON-GRADE SHALL BE CUT IN ACCORDANCE WITH ACI 302. JOINTS SHALL BE CUT WITHIN 12 HOURS OF SLAB PLACEMENT. THE LENGTH / WIDTH RATIOS OF SLAB AREAS SHALL NOT EXCEED 1.5 AND TYPICAL SPACING OF CUTS TO BE 12FT. DO NOT CUT W/M OR REINFORCING STEEL. (RECOMMENDED LOCATION OF CONTROL JOINTS IS SUBJECT TO OWNER AND CONTRACTOR'S APPROVAL. THE CONTROL JOINTS ARE NOT INTENDED TO PREVENT CRACKS BUT RATHER TO ENCOURAGE THE SLAB TO CRACK ON A GIVEN LINE.)

REBAR: ASTM A 615, GRADE 60, DEFORMED BARS, $F_y = 60$ KSI. ALL LAP SPLICES 40" DB (25" FOR #5 BARS); UNO. ALL REINFORCEMENT SHALL BE DETAIL AND PLACED IN ACCORDANCE WITH ACI 315-96, U.N.O.

GLULAM BEAMS: GLULAM BEAM, GLB, 24F-V3SP, $F_b = 2.4$ ksi, $E = 1800$ ksi; UNO. SUPPLIER MAY SUPPLY AN ALTERNATE BEAM WITH EQUAL PROPERTIES OR MAY SUBMIT THEIR OWN SIZING CALC. ROOF SHEATHING: ALL ROOFS ARE HORIZONTAL DIAPHRAGMS; 7/16" OSB SHEATHING, UNBLOCKED, APPLIED PERPENDICULAR TO FRAMING, OVER A MINIMUM OF 3 FRAMING MEMBERS, WITH PANEL EDGES STAGGERED, FASTENED WITH 6d COMMON NAILS (131), 6" OC PANEL EDGES, 12" OC INTERMEDIATE MEMBERS, GABLE ENDS AND DIAPHRAGM BOUNDARY, 4" OC, UNO.

STRUCTURAL CONNECTORS: MANUFACTURERS AND PRODUCT NUMBER FOR CONNECTORS, ANCHORS, AND REINFORCEMENT ARE LISTED FOR EXAMPLE NOT ENDORSEMENT. AN EQUIVALENT DEVICE OF THE SAME OR OTHER MANUFACTURER CAN BE SUBSTITUTED FOR ANY DEVICES LISTED IN THE EXAMPLE TABLES AS LONG AS IT MEETS THE REQUIRED LOAD CAPACITIES. MANUFACTURER'S INSTALLATION INSTRUCTIONS MUST BE FOLLOWED TO ACHIEVE RATED LOADS.

ANCHOR BOLTS: A-307 ANCHOR BOLTS WITH MINIMUM EMBEDMENT AS SPECIFIED IN DRAWINGS BUT NO LESS THAN 7" IN CONCRETE OR REINFORCED BOND BEAM OR 15" IN GROUTED CMU.

WASHERS: WASHERS USED WITH 1/2" BOLTS TO BE 2" x 2" x 9/16"; WITH 5/8" BOLTS TO BE 3" x 3" x 9/16"; WITH 3/4" BOLTS TO BE 3" x 3" x 9/16"; WITH 7/8" BOLTS TO BE 3" x 3" x 5/16"; UNO.

NAILS: ALL NAILS ARE COMMON NAILS UNLESS OTHERWISE SPECIFIED OR ACCEPTED BY FBC TEST REPORTS AS HAVING EQUAL STRUCTURAL VALUES.

BUILDER'S RESPONSIBILITY

THE BUILDER AND OWNER ARE RESPONSIBLE FOR THE FOLLOWING, WHICH ARE SPECIFICALLY NOT PART OF THE WIND LOAD ENGINEER'S SCOPE OF WORK.

CONFIRM SITE CONDITIONS, FOUNDATION BEARING CAPACITY, GRADE AND BACKFILL, HEIGHT, WIND SPEED AND DEBRIS ZONE, AND FLOOD ZONE.

PROVIDE MATERIALS AND CONSTRUCTION TECHNIQUES, WHICH COMPLY WITH FBCR 2004 REQUIREMENTS FOR THE STATED WIND VELOCITY AND DESIGN PRESSURES.

PROVIDE A CONTINUOUS LOAD PATH FROM TRUSSES TO FOUNDATION. IF YOU BELIEVE THE PLAN OMMITS A CONTINUOUS LOAD PATH CONNECTION, CALL THE WIND LOAD ENGINEER IMMEDIATELY.

VERIFY THE TRUSS MANUFACTURER'S SEALED ENGINEERING INCLUDES TRUSS DESIGN, PLACEMENT PLANS, TEMPORARY AND PERMANENT BRACING DETAILS, TRUSS TO TRUSS CONNECTIONS, AND UPLIFT AND REACTION LOADS FOR ALL BEARING LOCATIONS.

ROOF SYSTEM DESIGN

THE SEAL ON THESE PLANS FOR COMPLIANCE WITH FBCR 2004, SECTION R301.2.1 IS BASED ON REACTIONS, UPLIFTS, AND BEARING LOCATIONS IN TRUSS ENGINEERING SUBMITTED TO THE WIND LOAD ENGINEER. IT IS THE RESPONSIBILITY OF THE BUILDER TO CHECK ALL DETAILS OF THE COMPLETE ROOF SYSTEM DESIGN SUBMITTED BY THE TRUSS MANUFACTURER AND HAVE IT SIGNED, AND SEALED BY A DESIGN PROFESSIONAL FOR CORRECT APPLICATION OF FBC 2001 REQUIRED LOADS AND ANY SPECIAL LOADS. THE BUILDER IS RESPONSIBLE TO REVIEW EACH INDIVIDUAL TRUSS MEMBER AND THE TRUSS ROOF SYSTEM AS A WHOLE AND TO PROVIDE RESTRAINT FOR ANY LATERAL BRACING. THE BUILDER SHOULD USE CARE CHECKING THE ROOF DESIGN BECAUSE THE WIND LOAD ENGINEER IS SPECIFICALLY NOT RESPONSIBLE FOR THE TRUSS LAYOUT WHICH WAS CREATED BY THE TRUSS MANUFACTURER AND THE TRUSS DESIGNER ALSO DENIES RESPONSIBILITY FOR THE LAYOUT PER NOTES ON THEIR SEALED TRUSS SHEETS.

DESIGN DATA

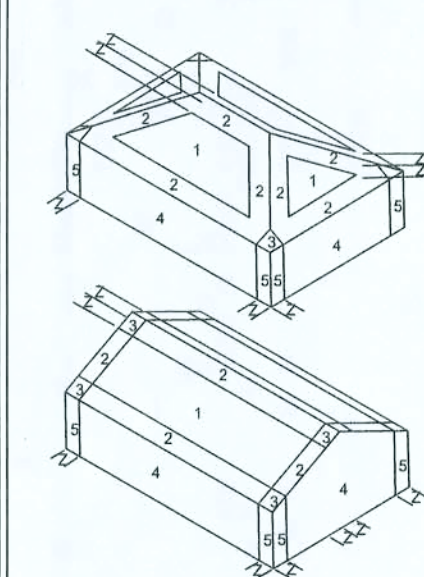
WIND LOADS PER FLORIDA BUILDING CODE 2004 RESIDENTIAL, SECTION R301.2.1

(ENCLOSED SIMPLE DIAPHRAGM BUILDINGS WITH FLAT, HIPPED, OR GABLE ROOFS; MEAN ROOF HEIGHT NOT EXCEEDING LEAST HORIZONTAL DIMENSION OR 60 FT; NOT ON UPPER HALF OF HILL OR ESCARPMENT 60FT IN EXP. B, 30FT IN EXP. C AND >10% SLOPE AND UNOBSTRUCTED UPWIND FOR 50x HEIGHT OR 1 MILE WHICHEVER IS LESS.)

BUILDING IS NOT IN THE HIGH VELOCITY HURRICANE ZONE

BUILDING IS NOT IN THE WIND-BORNE DEBRIS REGION

- BASIC WIND SPEED = 110 MPH
- WIND EXPOSURE = B
- WIND IMPORTANCE FACTOR = 1.0
- BUILDING CATEGORY = II
- ROOF ANGLE = 10-45 DEGREES
- MEAN ROOF HEIGHT = <30 FT
- INTERNAL PRESSURE COEFFICIENT = NA (ENCLOSED BUILDING)
- COMPONENTS AND CLADDING DESIGN WIND PRESSURES (TABLE R301.2(2))



Zone	Effective Wind Area (ft ²)
1	10
2	10
3	10
4	10
5	10

Doors & Windows	21.8	-29.1
Worst Case (Zone 5, 10 ft ²)		
8x7 Garage Door	19.5	-22.9
16x7 Garage Door	18.5	-21.0

DESIGN LOADS

FLOOR	40 PSF (ALL OTHER DWELLING ROOMS)
	30 PSF (SLEEPING ROOMS)
	30 PSF (ATTICS WITH STORAGE)
	10 PSF (ATTICS WITHOUT STORAGE, <3:12)
ROOF	20 PSF (FLAT OR <4:12)
	16 PSF (4:12 TO <12:12)
	12 PSF (12:12 AND GREATER)
STAIRS	40 PSF (ONE & TWO FAMILY DWELLINGS)
	SOIL BEARING CAPACITY 1000PSF
	NOT IN FLOOD ZONE (BUILDER TO VERIFY)

REVISIONS

SOFTPLAN
ARCHITECTURAL DESIGN SOFTWARE

WINDLOAD ENGINEER: Mark Discway,
PE No. 33915, P.O. Box 868, Lake City, FL
32056, 386-754-5419

DIMENSIONS: Stated dimensions supersede scaled dimensions. Refer all questions to Mark Discway, P.E. for resolution. Do not proceed without clarification.

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CERTIFICATION: I hereby certify that I have examined this plan, and that the applicable portions of the plan, relating to wind engineering comply with section R312.1, Florida building code residential 2004, to the best of my knowledge.

LIMITATION: This design is valid for one building, at specified location.

MARK DISWAY
P.E. 33915

Don Reed Construction

Wagner Residence

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Mark Discway P.E.
P.O. Box 868
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Phone: (386) 754 - 5419
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PRINTED DATE:
February 12, 2007
DRAWN BY: CHECKED BY:
David Discway

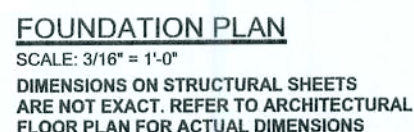
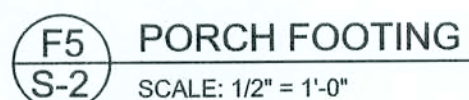
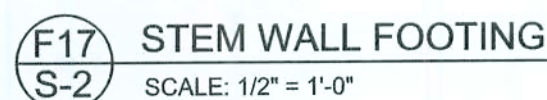
FINALS DATE:
22 / Feb / 07

JOB NUMBER:
702053
DRAWING NUMBER

S-1

OF 3 SHEETS

ARCHITECTURAL DESIGN SOFTWARE



The table assumes 60 ksi reinforcing bars with 6" hook in the footing and bent 24" into the reinforced slab at the top. The vertical steel is to be placed toward the tension side of the CMU wall (away from the soil pressure, within 2" of the exterior side of the wall). If the wall is over 8' high, add Duowall ladder reinforcement at 16"OC vertically or a horizontal bond beam with 1#5 continuous at mid height. For higher parts of the wall 12" CMU may be used with reinforcement as shown in the table below.

STEMWALL HEIGHT (FEET)	UNBALANCED BACELL HEIGHT	VERTICAL REINFORCEMENT FOR 8" CMU STEMWALL (INCHES O.C.)			VERTICAL REINFORCEMENT FOR 12" CMU STEMWALL (INCHES O.C.)		
		#5	#7	#8	#5	#7	#8
3.3	3.0	96	96	96	96	96	96
4.0	3.7	96	96	96	96	96	96
4.7	4.3	88	96	96	96	96	96
5.3	5.0	56	96	96	96	96	96
6.0	5.7	40	80	96	80	96	96
6.7	6.3	32	56	80	56	96	96
7.3	7.0	24	40	56	40	80	96
8.0	7.7	16	32	48	32	64	80
8.7	8.3	8	24	32	24	48	64
9.3	9.0	8	16	24	16	40	48

MASONRY CONSTRUCTION AND MATERIALS FOR THIS PROJECT SHALL CONFORM TO ALL REQUIREMENTS OF "SPECIFICATION FOR MASONRY STRUCTURES" (ACI 530.1/ASCE 6/TMS 602). THE CONTRACTOR AND MASON MUST IMMEDIATELY, BEFORE PROCEEDING, NOTIFY THE ENGINEER OF ANY CONFLICTS BETWEEN ACI 530.1-02 AND THESE DESIGN DRAWINGS. ANY EXCEPTIONS TO ACI 530.1-02 MUST BE APPROVED BY THE ENGINEER IN WRITING.

	AC308.4-102 Section	Specific Requirements
1.4A	Compressive strength	6" block bearing walls F'm = 1500 psi
2.1	Mortar	ASTM C 270, Type N, UNO
2.2	Grout	ASTM C 476, admixtures require approval
2.3	CMU standard	ASTM C 90-02, Nominal weight, Hollow, medium surface finish, 8"x16" running bond and 12"x12" or 16"x16" column block
2.3	Clay brick standard	ASTM C 216-02, Grade SW, Type FBS, 5.5"x2.75"x11.5"
2.4	Reinforcing bars, #3 - #11	ASTM 615, Grade 60, F'y = 60 ksi, Lap splices min 48 bar dia, (3x for #8)
2.4F	Coating for corrosion protection	Anchor, sheet metal ties completely embedded in mortar or grout, ASTM A505, Class 660, 0.60 oz/lb or 304SS
2.4F	Coating for corrosion protection	Joint reinforcement in walls exposed to moisture or wire ties, anchors, sheet metal ties not completely embedded in mortar or grout, ASTM A153, Class B2, 1.50 oz/lb or 304SS
3.3.E.2	Pipes, conduits, and accessories	Any not shown on the project drawings require engineering approval.
3.3.E.2	Movement joints	Contractor assumes responsibility for type and location of movement joints if not detailed on project drawings.

WINDLOAD ENGINEER: Mark Disosway,
PE No.53915, POB 68, Lake City, FL
32056, 386-754-549

DIMENSIONS:
Stated dimensions supersede scale dimensions. Refer a questions to Mark Disosway, P.E for resolution. Do not proceed without clarification.

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CERTIFICATION: I hereby certify that I have examined this plan, and that the applicable portions of the plan, relating to wind engineering, comply with section R301.2.1, Florida building code residential 200, to the best of my knowledge.

LIMITATION: This design is valid for one building, at specific location.

MARI DISOSWA
PE. 53915

10

AMSD

Paul K. St

2
SEAL

Don Reed Construction

Wagne; Residence

ADDRESS:
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White Springs, Florida 32096

Mark Dsosway P.E.

P.O. Box 868
Lake City Florida 32050

Phone: (336) 754 - 5419

Fax: (385) 269 - 4871

PRINTED DATE:
February 22, 200

DRAWN BY:	CHE
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David Disosway	
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FINALS DATE:	
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22 / Feb / 07
JOB NUMBER

JOB NUMBER
702053

DRAWING NUMBER

§-2

OF 3 SHEETS

MATERIALS

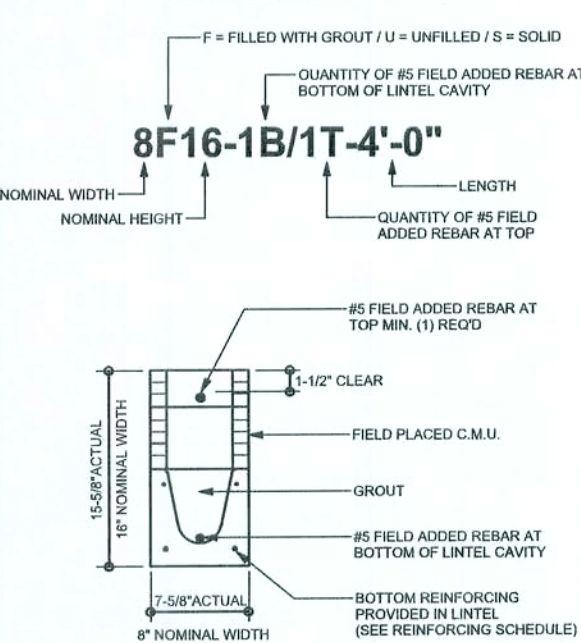
1. fc 8" precast lintel = 3500 psi
2. fc prestressed lintel = 6000 psi
3. Grout per ASTM C476 fc = 3000 psi w/ maximum 3/8 inch aggregate & 8 to 11 inch slump
4. Concrete Masonry Units (CMU) per ASTM C90 minimum net area compressive strength = 1900 psi
5. Rebar per ASTM A615 grade 60
6. Prestressing strand per ASTM A416 grade 270 low relaxation
7. Mortar per ASTM C270 type M or S

GENERAL NOTES

1. Provide full mortar bed and head joints.
2. Shore filled lintels as required.
3. Installation of lintel must comply with the architectural and/or structural documents.
4. U-Intels are manufactured with 5 1/2" long notches at the ends to accommodate vertical cell reinforcing and grouting.
5. All lintels meet or exceed L/360 deflection, except lintels 17'-4" and longer with a nominal height of 8" meet or exceed L/180 deflection.
6. Bottom field added rebar to be located at the bottom of the lintel cavity.
7. 7/32" diameter wire stirrups are welded to the bottom steel for mechanical anchorage.
8. Cast-in-place concrete may be provided in composite lintel in lieu of concrete masonry units.
9. Safe load rating based on rational design analysis per ACI 318 and ACI 530
10. Product Approvals: Miami-Dade County, Florida No. 03-0606.05
11. The exterior surface of lintels installed in exterior concrete masonry walls shall have a coating of stucco applied in accordance with ASTM C-296 or other approved coating.
12. Lintels loaded simultaneously with vertical (gravity or uplift) and horizontal (lateral) loads should be checked for the combined loading with the following equation:

$$\frac{\text{Applied vertical load}}{\text{Safe vertical load}} + \frac{\text{Applied horizontal load}}{\text{Safe horizontal load}} \leq 1.0$$
13. Additional lateral load capacity can be obtained by the designer by providing additional reinforced concrete masonry above the lintel. See detail at right.

TYPE DESIGNATION



SAFE LOAD TABLE NOTES

1. All values based on minimum 4 inch nominal bearing.
- Exception: Safe loads for unfilled lintels must be reduced by 20% if bearing length is less than 5 1/2 inches.
2. N.R. = Not Rated
3. Safe loads are superimposed allowable loads.
4. Safe loads based on grade 40 or grade 60 field rebar
5. One #7 rebar may be substituted for two #5 rebars in 8" lintels only
6. The designer may evaluate concentrated loads from the safe load tables by calculating the maximum resisting moment and shear at d-away from face of support.
7. For composite lintel heights not shown, use safe load from next lower height shown.
8. For lintel lengths not shown, use safe load from next longest length shown
9. All safe loads in units of pounds per linear foot
10. All safe loads based on simply supported span.
11. The number in the parenthesis indicates the percent reduction for grade 40 field added rebar.
 Example 7'-6" lintel type 8F32-1B safe gravity load = 6472(0.0469)(15) = 1450.0781; w/ 15% reduction 6472 * (.85) = 5501 plf

SAFE GRAVITY LOADS FOR 8" PRECAST & PRESTRESSED U-LINTELS																
		SAFE LOAD - POUNDS PER LINEAR FOOT														
LENGTH	TYPE	8UB	8F8-0B 8F8-1B	8F12-0B 8F12-1B	8F16-0B 8F16-1B	8F20-0B 8F20-1B	8F24-0B 8F24-1B	8F28-0B 8F28-1B	8F32-0B 8F32-1B							
2'-10" 4")	PRECAST	2231	3069	4605	6113	7547	8974	10394	11809							
3'-6" 2")	PRECAST	2231	3069	4605	6113	7547	8974	10394	11809							
4'-0" 3")	PRECAST	1968	2561	2751	3820	4880	5961	7034	8107							
4'-6" 4")	PRECAST	1599	2189	2110	2931	3753	4576	5400	6224							
5'-4" 4")	PRECAST	1217	1663	1309	1939	2560	3123	3686	4249							
5'-10" 0")	PRECAST	1062	1451	1105	1173	1631	2090	2549	3009							
6'-6" 3")	PRECAST	908	1238	1451	2622	4360	7168	8974	10394	11809						
7'-6" 0")	PRECAST	743	1011	1238	2177	3480	5031	6707	8383	10059						
9'-4" 12")	PRECAST	554	689	1160	1625	2564	3486	4386	5286	6187						
10'-6" 26")	PRECAST	475	535	890	1247	2093	2777	3461	4145	4828						
11'-4" 36")	PRECAST	382	582	945	1366	1846	2423	3127	3831	4504						
12'-0" 44")	PRECAST	337	540	873	1254	1684	2193	2805	3552	4249						
13'-4" 60")	PRECAST	296	471	755	1075	1428	1838	2316	2883	3552						
14'-0" 36")	PRECAST	279	442	706	1002	1326	1697	2127	2630	3297						
14'-8" 76")	PRESTRESSED	N.R.	NR	NR	NR	NR	NR	NR	NR	NR						
15'-4" 34")	PRESTRESSED	N.R.	412	710	1250	1733	2058	2320	2513	2712						
17'-4" 38")	PRESTRESSED	N.R.	NR	NR	NR	NR	NR	NR	NR	NR						
19'-4" 32")	PRESTRESSED	N.R.	235	418	750	1037	1282	1515	1716	1917						
21'-4" 56")	PRESTRESSED	N.R.	180	340	598	845	1114	1359	1498	1638						
22'-0" 64")	PRESTRESSED	N.R.	NR	NR	NR	NR	NR	NR	NR	NR						
24'-0" 88")	PRESTRESSED	N.R.	129	250	450	654	884	1092	1222	1352						

SAFUPLIFT LOADS FOR 8" PRECAST & PRESTRESSED U-LINTELS

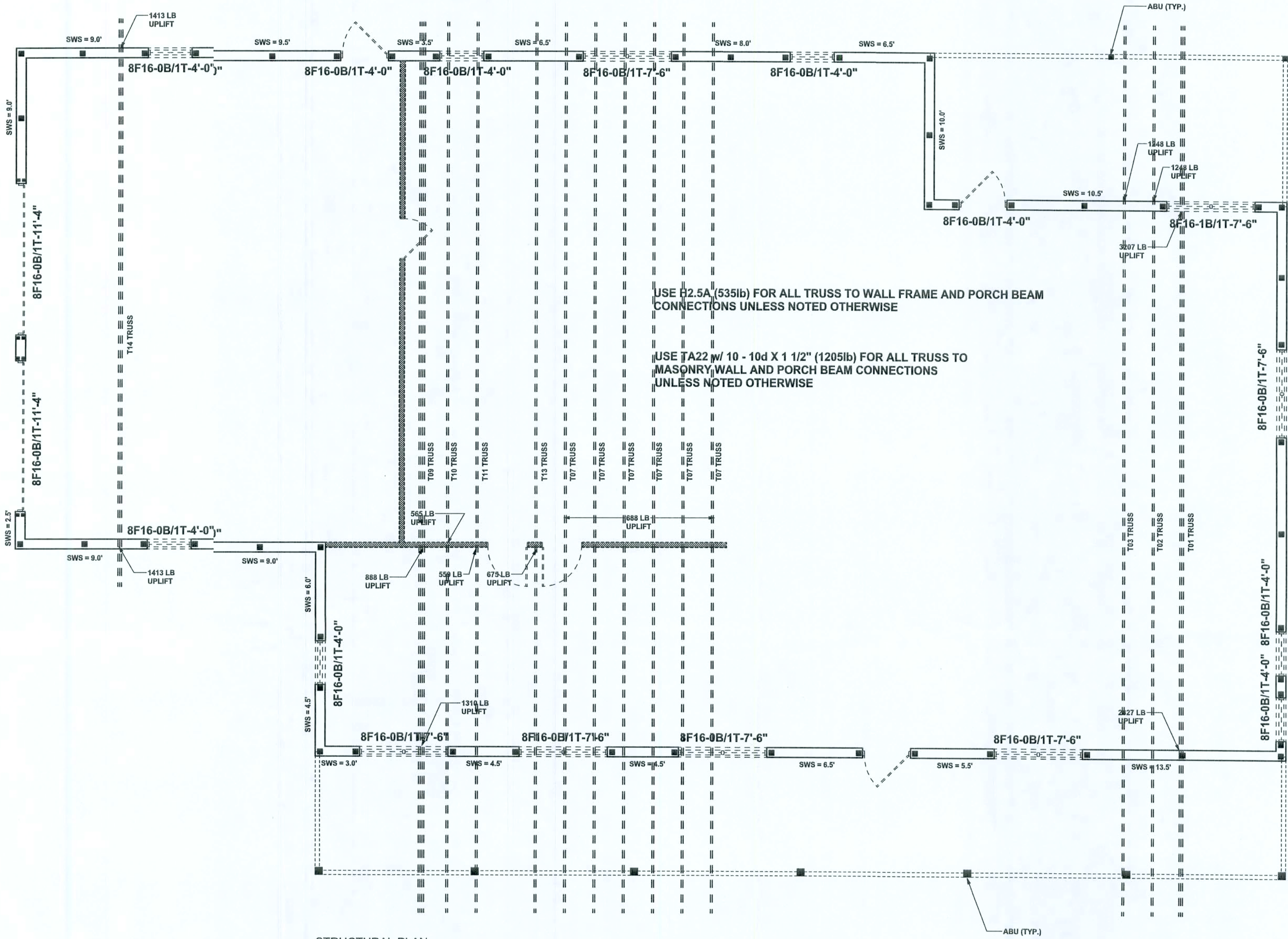
LENGTH	TYPE	8UB	8F8-1T	8F12-1T	8F16-1T	8F20-1T	8F24-1T	8F28-1T	8F32-1T
			8F8-2T	8F12-2T	8F16-2T	8F20-2T	8F24-2T	8F28-2T	8F32-2T
2'-10" 4")	PRECAST	1972	3173	4460	5747	7034	8321	9608	10895
3'-6" 2")	PRECAST	1568	2524	3547	4569	5591	6613	7636	8659
4'-0" 8")	PRECAST	1363	2192	3079	3966	4853	5740	6627	7514
4'-6" 4")	PRECAST	1207	1940	2724	3508	4292	5077	5861	6645
5'-4" 4")	PRECAST	1016	1632	2290	2949	3607	4265	4924	5582
5'-10" 0")	PRECAST	909	1492	2093	2694	3295	3897	4498	5099
6'-6" 8")	PRECAST	835	1340	1880	2419	2959	3499	4038	4578
7'-6" 0")	PRECAST	727	1165	1634	2102	2571	3039	3508	3977
9'-4" 12")	PRECAST	591	890	1133	1471	1811	2152	2494	2835
10'-6" 26")	PRECAST	530	851	1026	1205	1384	1563	1742	1921
11'-4" 36")	PRECAST	474	786	1183	1526	1865	2204	2544	2883
12'-0" 44")	PRECAST	470	786	1183	1526	1865	2204	2544	2883
13'-4" 60")	PRECAST	428	706	1002	1325	1697	2127	2630	3133
14'-0" 36")	PRECAST	410	706	1002	1325	1697	2127	2630	3133
14'-8" 76")	PRESTRESSED	230	323	419	515	611	707	803	899
15'-4" 34")	PRESTRESSED	224	302	389	485	581	677	773	869
17'-4" 38")	PRESTRESSED	230	364	469	575	681	787	893	999
19'-4" 32")	PRESTRESSED	187	255	323	391	459	527	595	663
21'-4" 56")	PRESTRESSED	142	198	255	312	369	426	483	540
22'-0" 64")	PRESTRESSED	137	192	255	312	369	426	483	540
24'-0" 88")	PRESTRESSED	124	175	222	279	336	393	450	507

S/E GRAVITY LOADS FOR 8" PRECAST w/ 2" RECESS DOOR U-LINTELS

LENGTH	TYPE	8UB	8F8-0B	8F12-0B	8F16-0B	8F20-0B	8F24-0B	8F28-0B	8F32-0B
			8F8-1B	8F12-1B	8F16-1B	8F20-1B	8F24-1B	8F28-1B	8F32-1B
4'-4" 2")	PRECAST	1635	1749	3355	5086	6839	8600	10379	12158
4'-6" 4")	PRECAST	1494	1596	3093	4506	6039	7572	9105	10638
5'-8" 8")	PRECAST	866	920	1770	2564	3358	4152	4946	5740
5'-10" 0")	PRECAST	810	859	1653	2448	3242	4036	4830	5624
6'-8" 0")	PRECAST	797	801	1625	2420	3214	4008	4802	5596
7'-6" 0")	PRECAST	669	755	1490	2459	3253	4047	4841	5635
9'-8" 16")	PRECAST	411	466	999	1568	2253	2938	3623	4308

SAFUPLIFT LOADS FOR 8" PRECAST w/ 2" RECESS DOOR U-LINTELS

LENGTH	TYPE	8UB	8F8-1T	8F12-1T	8F16-1T	8F20-1T	8F24-1T	8F28-1T	8F32-1T
			8F8-2T	8F12-2T	8F16-2T	8F20-2T	8F24-2T	8F28-2T	8F32-2T
4'-4" 2")	PRECAST	905	1748	2635	3522	4409	5296	6183	7070
4'-6" 4")	PRECAST	867	1675	2525	3374	4224	5074	5924	6774
5'-8" 8")	PRECAST	875	1301	1960	2618	3277	3935	4594	5253
5'-10" 0")	PRECAST	855	1262	1900	2538	3176	3815	4453	5091
6'-8" 0")	PRECAST	570	1012	1451	1890	2329	2768	3207	3646
7'-6" 0")	PRECAST	506	797	1165	1533	1902	2271	2640	3009
9'-8" 16")	PRECAST	395	589	849	1109	1369	1629	1889	2149



Daniel Shaheen
Daniel Shaheen

March 23, 2007



ARCHITECTURAL
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CONSTRUCTION
DOCUMENTS BY:

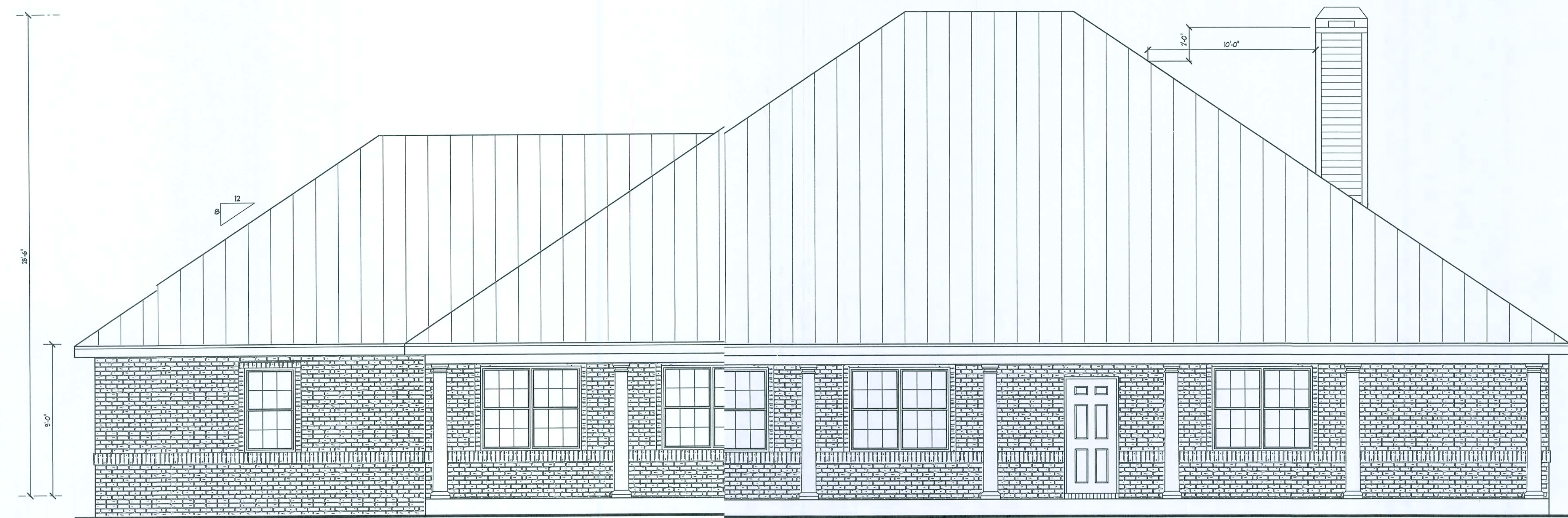
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A CUSTOM HOME BY DON REED CONSTRUCTION:
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EXTERIOR ELEVATIONS

SHEET NUMBER
1 of 4

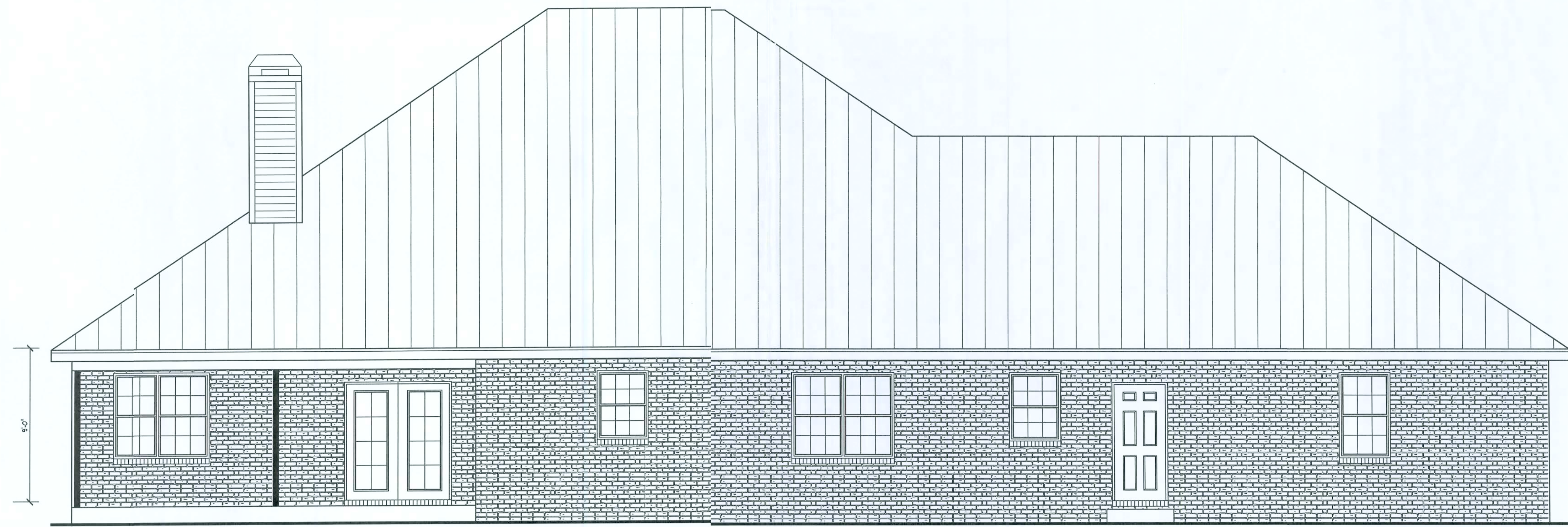
All work shall comply with the standard building code, and all applicable local codes and ordinances.
Contractor shall verify all dimensions prior to commencing construction.



FRONT ELEVATION
SCALE: 1/4" = 1'

FILE COPY

FILE COPY



REAR ELEVATION
SCALE: 1/4" = 1'

Daniel Shaheen
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March 23, 201



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(386) 754-0131

CONSTRUCTION
DOCUMENTS BY:

ENGINEERED BY:

A CUSTOM HOME BY DON REED CONSTRUCTION:

WAGONER RESIDENCE

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ELEVATIONS

ROOF

TYPICAL WALL SECTION

SHEET NUMBER
2 of 4

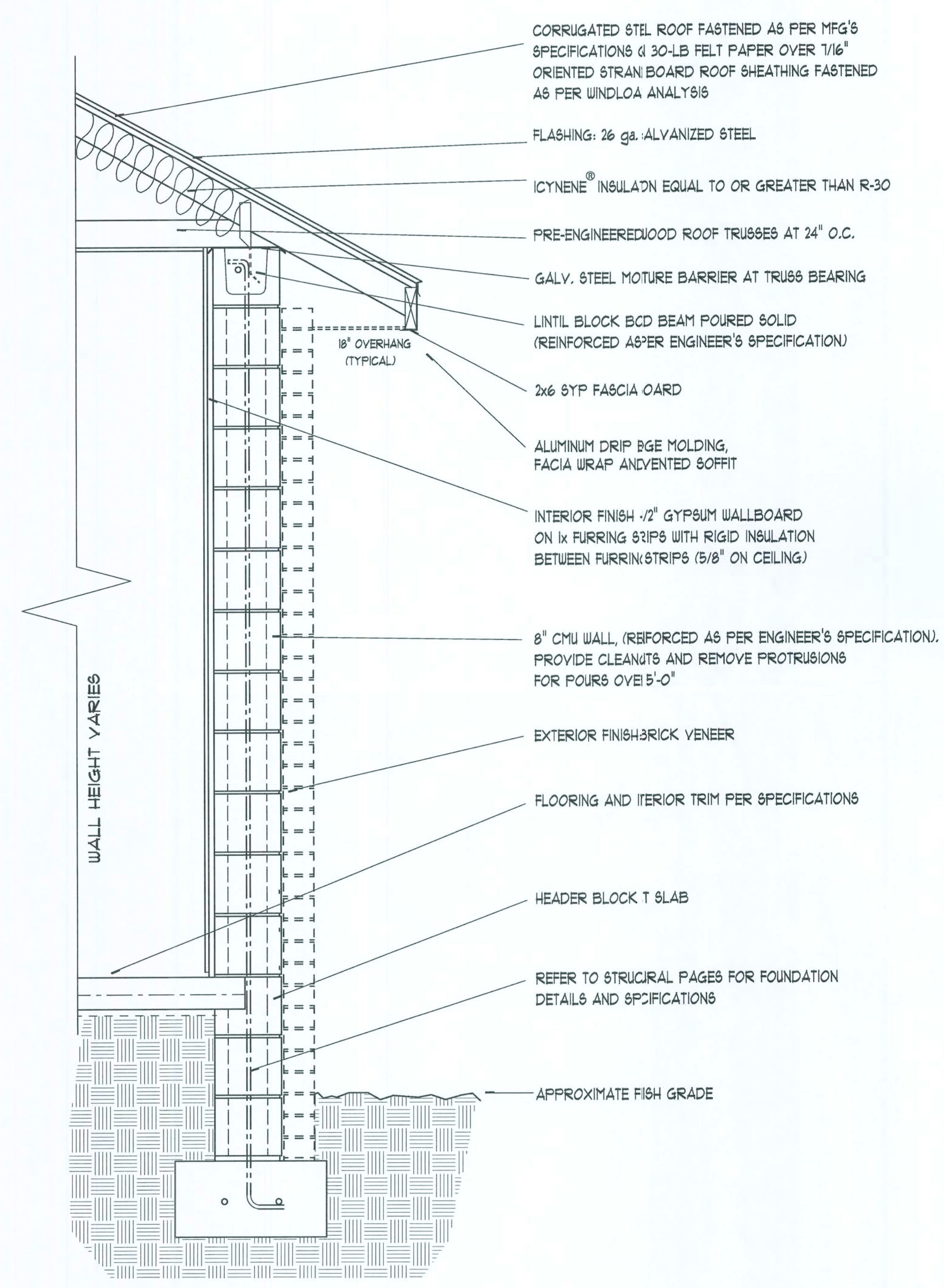
All work shall comply with the standard building code, and all applicable local codes and ordinances.
Contractor shall verify all dimensions prior to commencing construction.



LEFT ELEVATION
SCALE: 1/4" = 1'



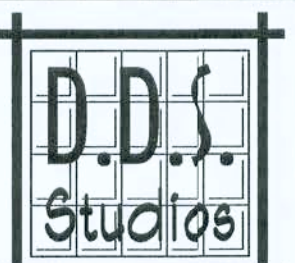
RIGHT ELEVATION
SCALE: 1/4" = 1'



TYPICAL WALL SECTION
SCALE: 1" = 1'

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March 23, 2007



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(386) 754-0181

CONSTRUCTION
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ENGINEERED BY:

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WAGONER RESIDENCE

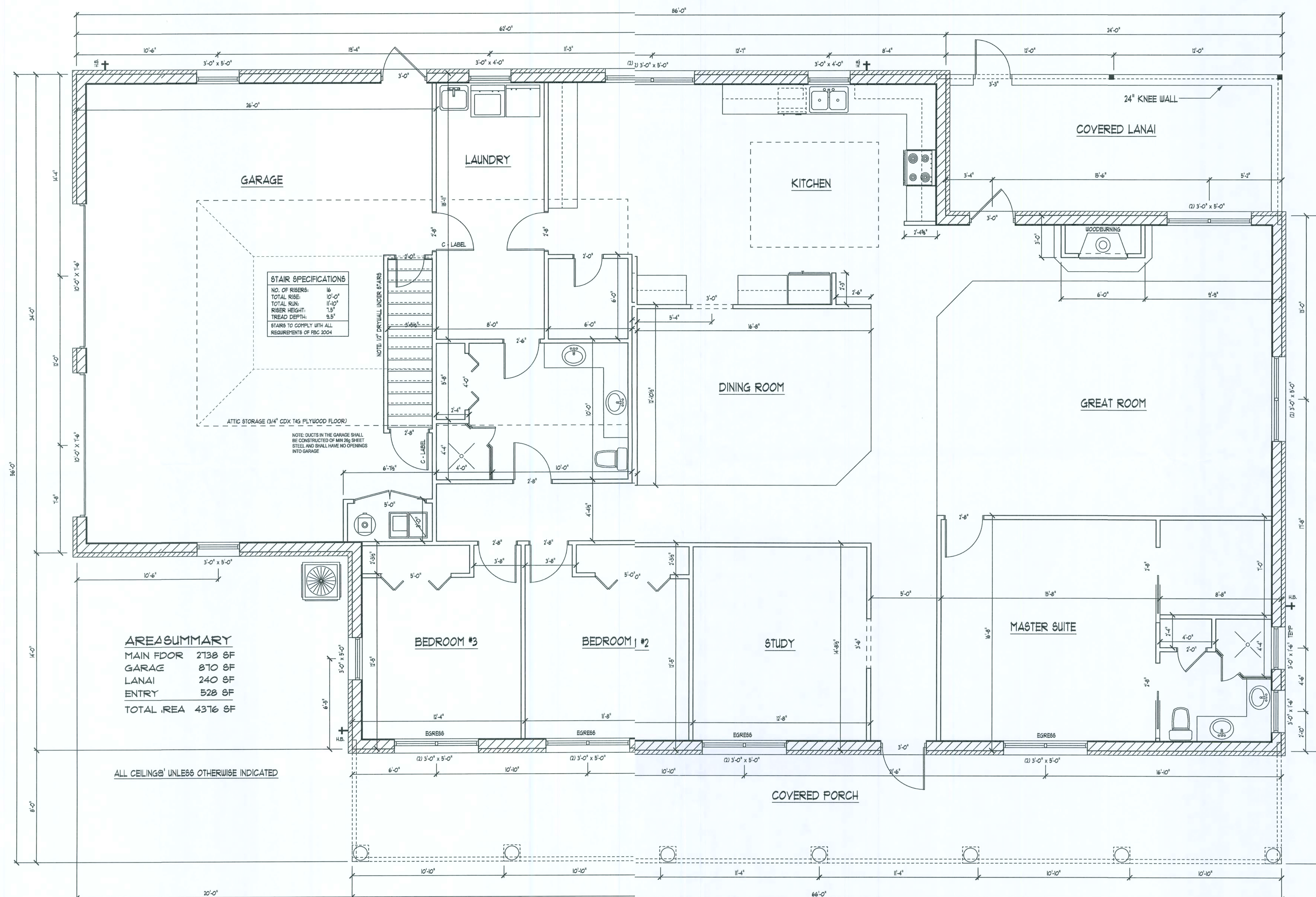
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FLOOR PLAN

SHEET NUMBER
3 of 4

All work shall comply with the standard building codes, and all applicable local codes and ordinances.

Contractor shall verify all dimensions prior to commencing construction.



FLOOR FLAN
SCALE: 1/4" 1'

ALL DRAWINGS NOT TO BE SCALED, WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS

Daniel Shaheen
Daniel Shaheen

March 23, 2007

D.D.S.
Studios

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ELECTRICAL PLAN

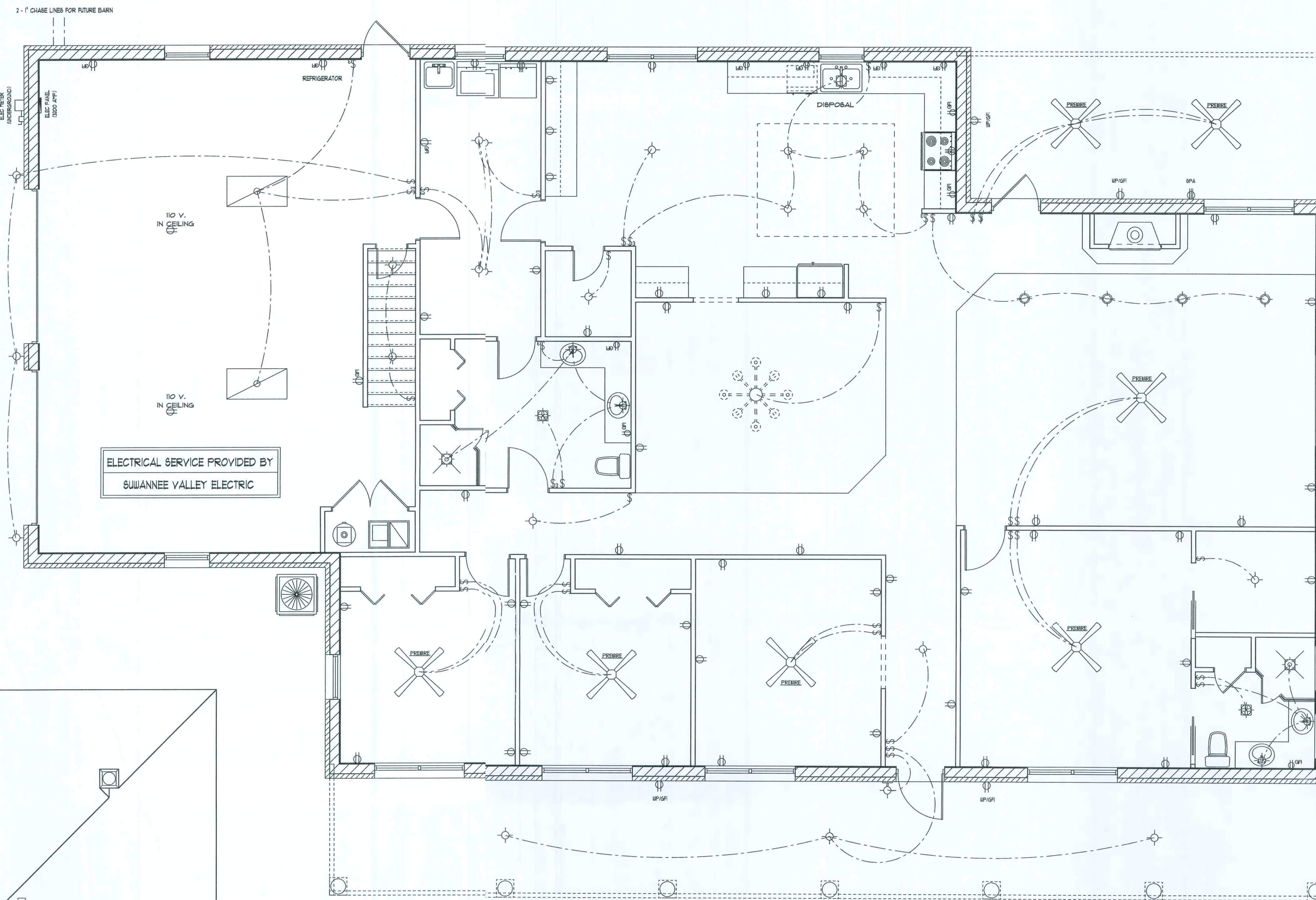
ROOF PLAN

SHEET NUMBER

4 of 4

All work shall comply with
the standard building code
and all applicable local
codes and ordinances.

Contractor shall verify all
dimensions prior to
commencing construction.



ELECTRICAL PLAN

SCALE: 1/4" = 1'

ELECTRICAL PLAN NOTES

- E-1 ALL WORK SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE, LATEST EDITION, AND ALL OTHER APPLICABLE LOCAL CODES AND ORDINANCES.
- E-2 NOTE: ALL SMOKE DETECTORS TO BE WIRED TOGETHER TO ACTUATE ALL ALARMS IF ANY ONE UNIT IS ACTUATED.
- E-3 PROVIDE WIRING AS REQUIRED FOR APPLIANCES, AIR CONDITIONING, HEATING AND WATER HEATING EQUIPMENT.
- E-4 ALL BEDROOM RECEPTACLES SHALL BE AFCI (ARC FAULT CIRCUIT INTERRUPT).

NOTE:
THIS ELECTRICAL PLAN IS A SCHEMATIC WITH SUGGESTED SWITCH, RECEPTACLE, AND LIGHT FIXTURE LOCATIONS. DUE TO VARYING LOCAL AND STATE CODES, REGULATIONS, AND STATUTES, IT IS THE RESPONSIBILITY OF THE OWNER AND/OR CONTRACTOR TO COMPLY WITH ALL LOCAL AND STATE CODES, REGULATIONS AND STATUTES.

ROOF PLAN NOTES

- R-1 ALL ROOF PITCH 6/12
- R-2 ALL OVERHANGS 18" AND 12" AT GABLES UNLESS OTHERWISE NOTED
- R-3 PROVIDE ATTIC VENTILATION IN ACCORDANCE WITH CODE REQUIREMENTS
- R-4 SEE EXTERIOR ELEVATIONS AND FLOOR PLANS TO VERIFY PLATE AND HEEL HEIGHTS
- R-5 MOVE ALL VENTS AND OTHER ROOF PENETRATIONS TO REAR

ROOF PLAN

SCALE: 1/8" = 1'