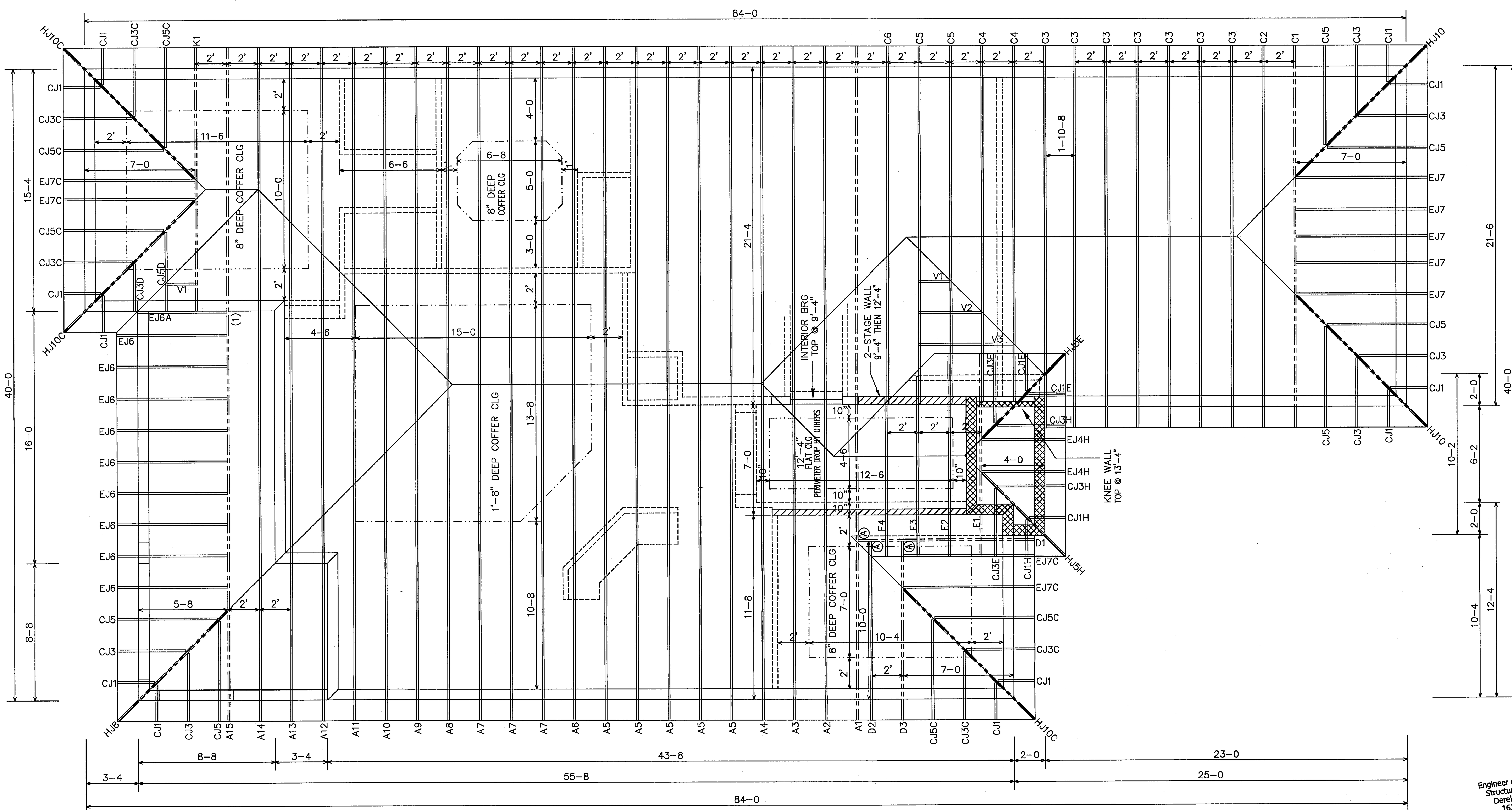
TRUSS PLACEMENT PLAN

HANGERS TO BE USED	
(Simpson) or	(Usp)
Ⓐ HUS26	Ⓐ HUS26
Ⓒ HGUS26–2	Ⓒ THDH26–2
Ⓓ HGUS28–2	Ⓓ THDH28–2
Ⓗ HHUS46	Ⓗ THD46
Ⓚ SUR/L26–2	Ⓚ SKH26R/L–2

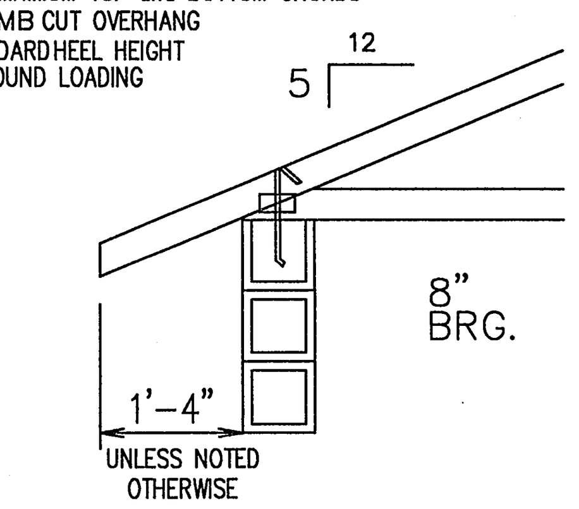
EXPOSURE : ENCLOSED
LANAI : EXPOSED TO WIND
ENTRY : EXPOSED TO WIND



ALL WALLS SHOWN ON THIS LAYOUT ARE TO BE LOAD BEARING	
(plain)	9'–4"
(hatched)	12'–4"
(cross-hatched)	13'–4"

TRUSS BEARING HEIGHT SCHEDULE

APPROVED TRUSS ANCHOR BY BUILDER
2x4 MINIMUM TOP and BOTTOM CHORDS
PLUMB CUT OVERHANG
STANDARD HEEL HEIGHT
45 POUND LOADING



TYPICAL TRUSS END DETAIL

FBC2010 / TPI2007	
ROOF–LOADS	~~FLOOR LOADS~~
20 T.C. LIVE	~~40 T.C. LIVE~~
15 T.C. DEAD	~~10 T.C. DEAD~~
00 B.C. LIVE/10 NC	~~00 B.C. LIVE/10 NC~~
10 B.C. DEAD	~~05 B.C. DEAD~~
1.25 DOL	~~1.00 DOL~~

ALL UPLIFTS ARE APPROXIMATE UNTIL FINAL ENGINEERING

	TRUSS I.D.	REACTION	UPLIFT(–)	HOLDDOWN
(1)	A15	3315	–1105	
(2)				
(3)				
(4)				
(5)				
(6)				
(7)				

NOTE:

YOUR SIGNATURE WILL ACKNOWLEDGE:

1) AUTHORIZATION FOR FABRICATION.
2) VERIFICATION OF ALL DIMENSIONS, CONDITIONS, AND TRUSSES. TRUSSES WILL BE MADE IN STRICT ACCORDANCE WITH THIS PLACEMENT PLAN.
3) RECEIPT AND USE OF "HIB–91 Summary Sheet COMMENTARY and RECOMMENDATIONS for HANDLING, INSTALLING & BRACING METAL PLATE CONNECTED WOOD TRUSSES" (TPI).
4) NO BACK CHARGES OR CRANE CHARGES OF ANY KIND WILL BE ACCEPTED UNLESS SPECIFICALLY AUTHORIZED IN WRITING BY TRUSS PLANT MNGMT.

SIGNED ____________

TITLE ____________

DATE ____________

All spacing is 24" O.C., except as noted.
All walls shown are bearing, except as noted.
All valleys calculated with sheathing under.
Number of girder plies to be determined by engineering.
DO NOT CUT OR ALTER TRUSSES w/o AUTHORIZATION FROM THIS OFFICE.
Labeling trusses is a service, not a requirement. Engineered drawings supercede labeling of trusses. It is the responsibility of the builder to utilize engineered drawings when erecting trusses.

WARNING

ERECTION BRACING IS NOT THE RESPONSIBILITY OF TRUSS DESIGNER, PLATE MANUFACTURER, NOR TRUSS FABRICATOR. PERSONS ERECTING TRUSSES ARE CAUTIONED TO SEEK PROFESSIONAL ADVICE REGARDING ERECTION BRACING WHICH IS ALWAYS REQUIRED TO PREVENT TOPPLING AND DOMINOING DURING ERECTION; AND PERMANENT BRACING WHICH MAY BE REQUIRED IN SPECIFIC APPLICATIONS. SEE "HIB–91 Summary Sheet COMMENTARY and RECOMMENDATIONS for HANDLING, INSTALLING & BRACING METAL PLATE CONNECTED WOOD TRUSSES" (TPI). TRUSSES ARE TO BE ERECTED AND FASTENED IN A STRAIGHT AND PLUMB POSITION WHERE NO SHEATHING IS APPLIED DIRECTLY TO THE TOP CHORDS; THEY SHALL BE BRACED AS SPECIFIED ON THE TRUSS DESIGN.

TRUSSES SHALL BE HANDLED WITH REASONABLE CARE DURING ERECTION TO PREVENT DAMAGE.

NOTE:
TRUSS COMPANY SUPPLIES ONLY TRUSS TO TRUSS CONNECTIONS.
TRUSS COMPANY WILL SUPPLY ALL TRUSS TO TRUSS HARDWARE CONNECTIONS FOR REACTIONS UNDER 5000 POUNDS. FOR ALL REACTIONS GREATER THAN 5000 POUNDS, OR SKEWED, NO HANGER IS SUPPLIED.

CONTRACTOR SHOULD CHECK ALL REACTIONS FOR PROPER CONNECTIONS.

ASCE7–10 WIND and GRAVITY CRITERIA

Exposure Category : B Bldg Category : 2 Wind Design Velocity : 160 MPH
Imp. Factor : 1.00 Wind Load Duration Factor : 1.33 Mean Roof Height : 15 ft.

Stephen W. Warter Struct Eng #54395 2590 N. KINGS HIGHWAY FT. PIERCE, FL 34951 (772) 464–4160

REVISIONS

Engineer of Record for the Structure
Structural Systems of N. FL, Inc.
Derek Bergener, PE # 58552
1634 SE 47th Street # 3
Cape Coral, FL 33904

Sign: [signature] Date: 8/6/12

Reviewed for conformance with the design intent of the structure and specified design criteria.
☒ Accepted As is ☐ Accepted As noted ☐ Revise and Resubmit

Trusses shown on this layout are a component part of the building and show truss location. Proper erection, temporary and permanent bracing design are the responsibility of the building designer or his engineer . Lateral bracing shown on the individual truss drawings must be placed during the erection procedure.

ROOF COVER: TILE / SHINGLE
JOB NO.: 2744
LOT: BLK:
ADDRESS:
SUBDIVISION: BANYAN BAY

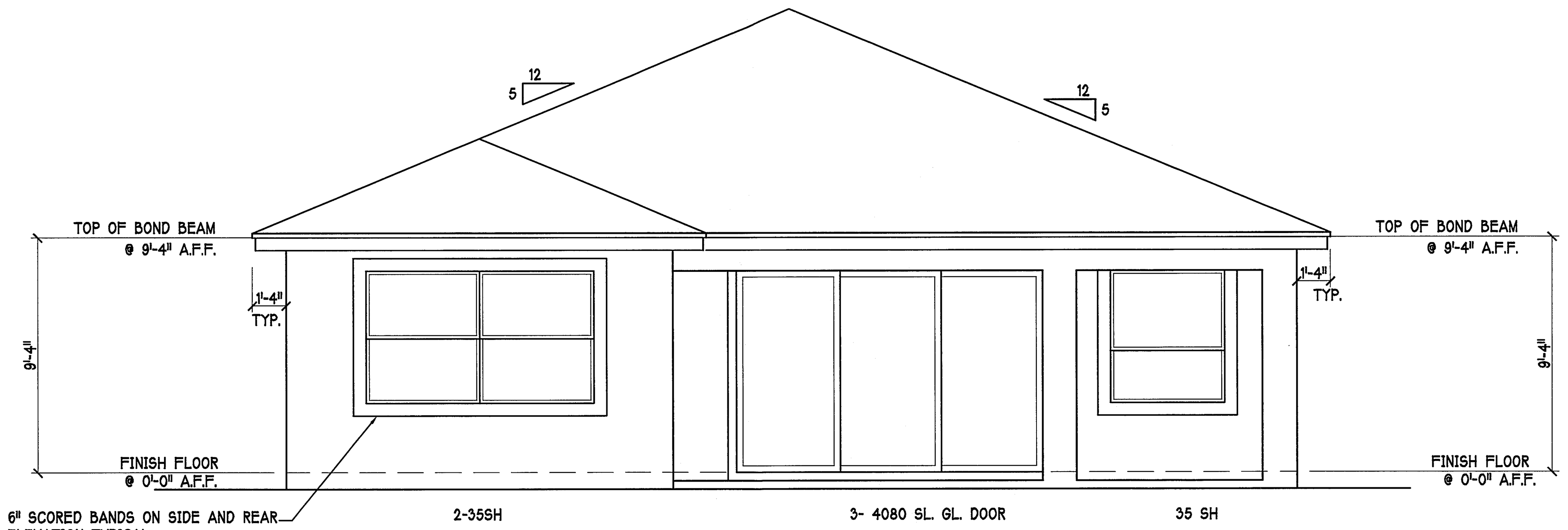
SOUTHERN TRUSS COMPANIES, INC. (772) 464–4160
2590 N. Kings Highway Fort Pierce, Fl 34951

CUSTOMER: DR HORTON (FT. MYERS)

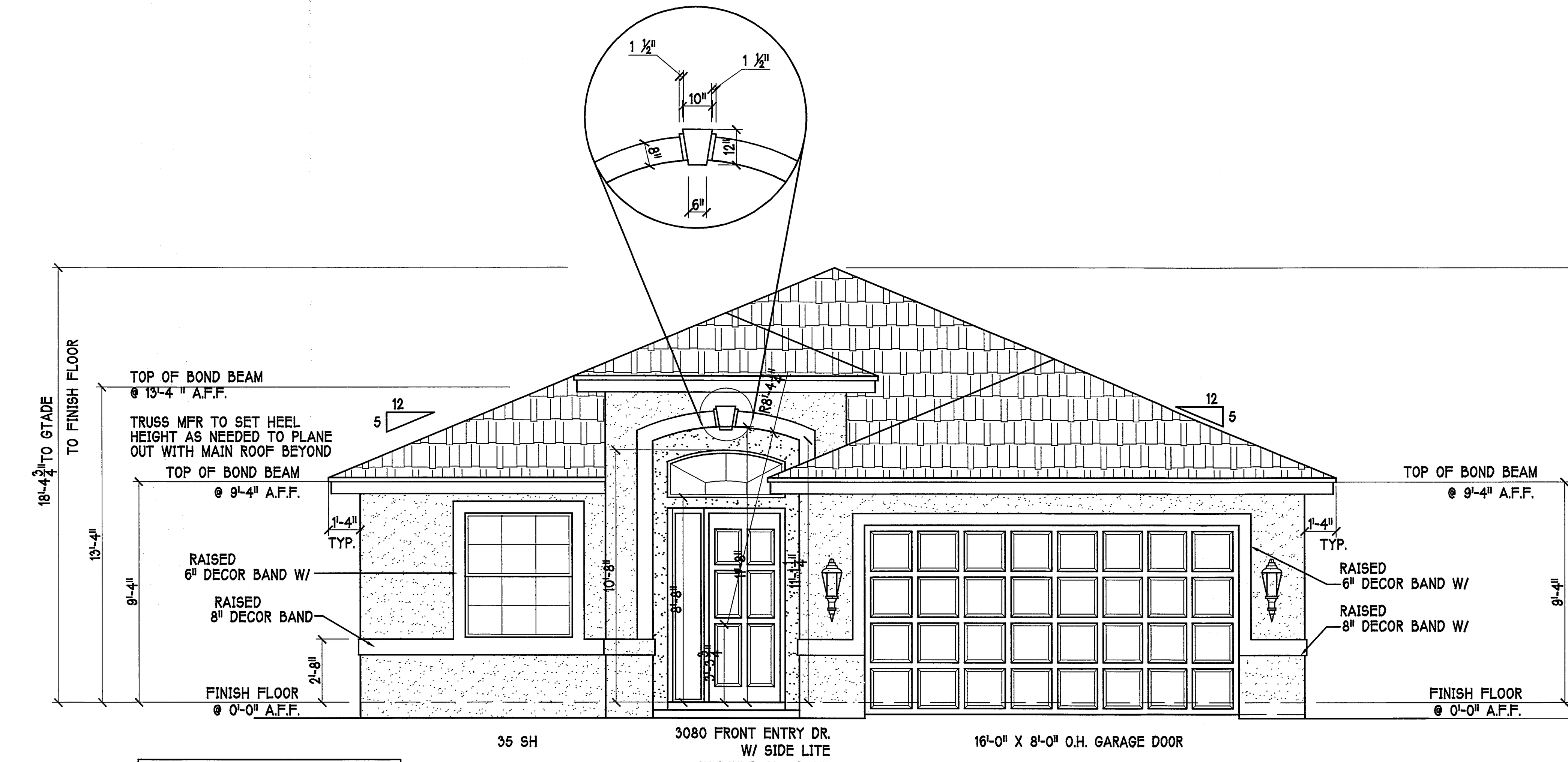
DESCRIPTION: 2006 – A

SCALE:	DATE:	DRAWN BY:	DRAWING NUMBER:
1/4"=1'–0"	05/02/12	BFM	STBB2006A

GARAGE RIGHT

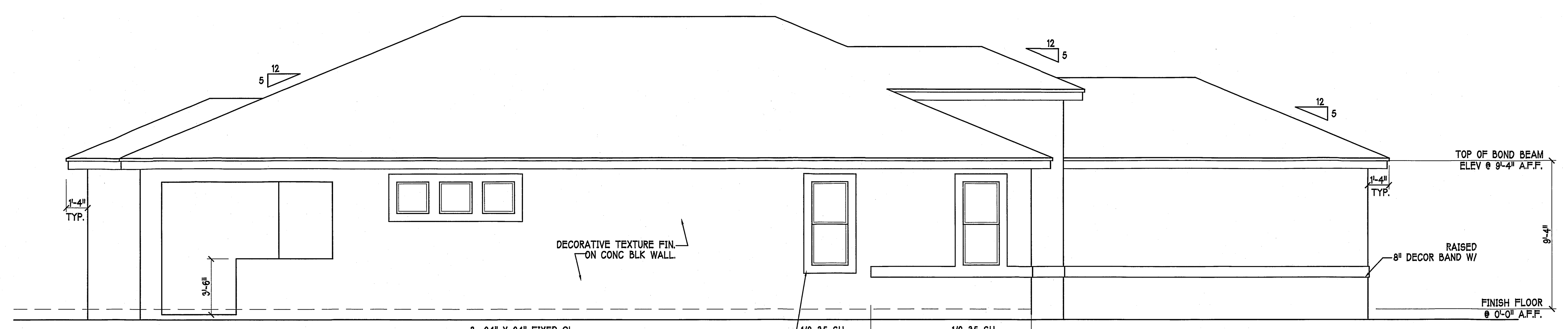


REAR ELEVATION: "A" SCALE: 1/4" = 1'-0"



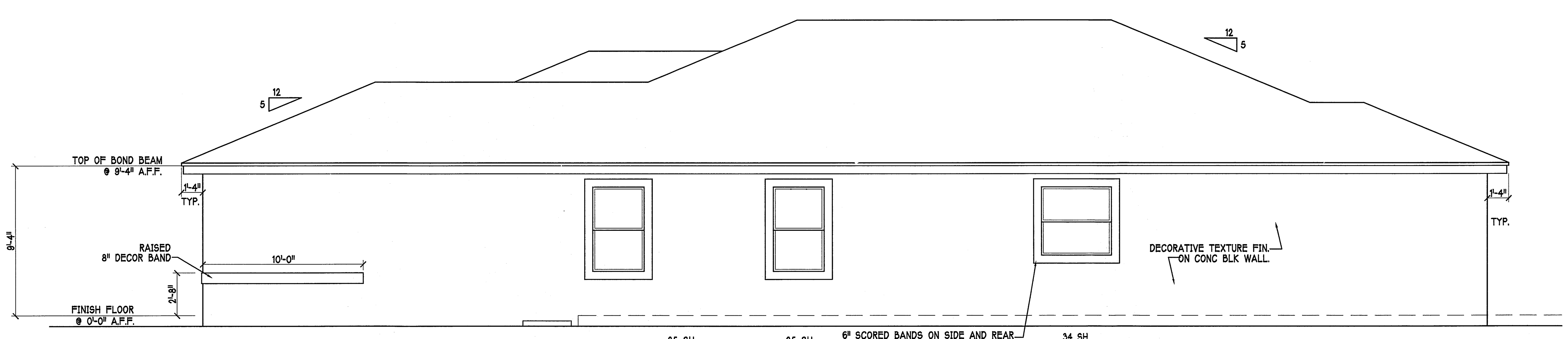
NOTE: CROWN BANDING MUST RETURN 10'-0" ON SIDE ELEVATION & RETURN TO ENTRY

FRONT ELEVATION: "A" SCALE: 1/4" = 1'-0"



NOTE: CROWN BANDING MUST RETURN 10'-0" ON SIDE ELEVATION & RETURN TO ENTRY

LEFT SIDE ELEVATION: "A" SCALE: 1/4" = 1'-0"



NOTE: CROWN BANDING MUST RETURN 10'-0" ON SIDE ELEVATION & RETURN TO ENTRY

RIGHT SIDE ELEVATION: "A" SCALE: 1/4" = 1'-0"

4-11-2011	MADE OPTIONAL STUDY
8-25-2011	MADE FOYER AND DINING ROOM ARCH 8'-10"

DESIGN IN ACCORDANCE WITH BUILDING CODE 2010

D.R.HORTON America's Builder

Gulf Coast Drafting & Design
Phone (239) 540-1822
Fax (239) 540-7759

STRUCTURAL SYSTEMS OF NORTH FLORIDA

MODEL: UNIT 2006

RESIDENCE FOR: SPEC

LOT: 4 BLOCK:

SUBDIV: BUCKS RUN

ADDRESS: 7875 BUCKS RUN DR.

G.C.D. JOB #: DR-2744

DATE: 8-6-12

DRAWN BY: D.B.

CHECKED BY: JWC

REVISED:

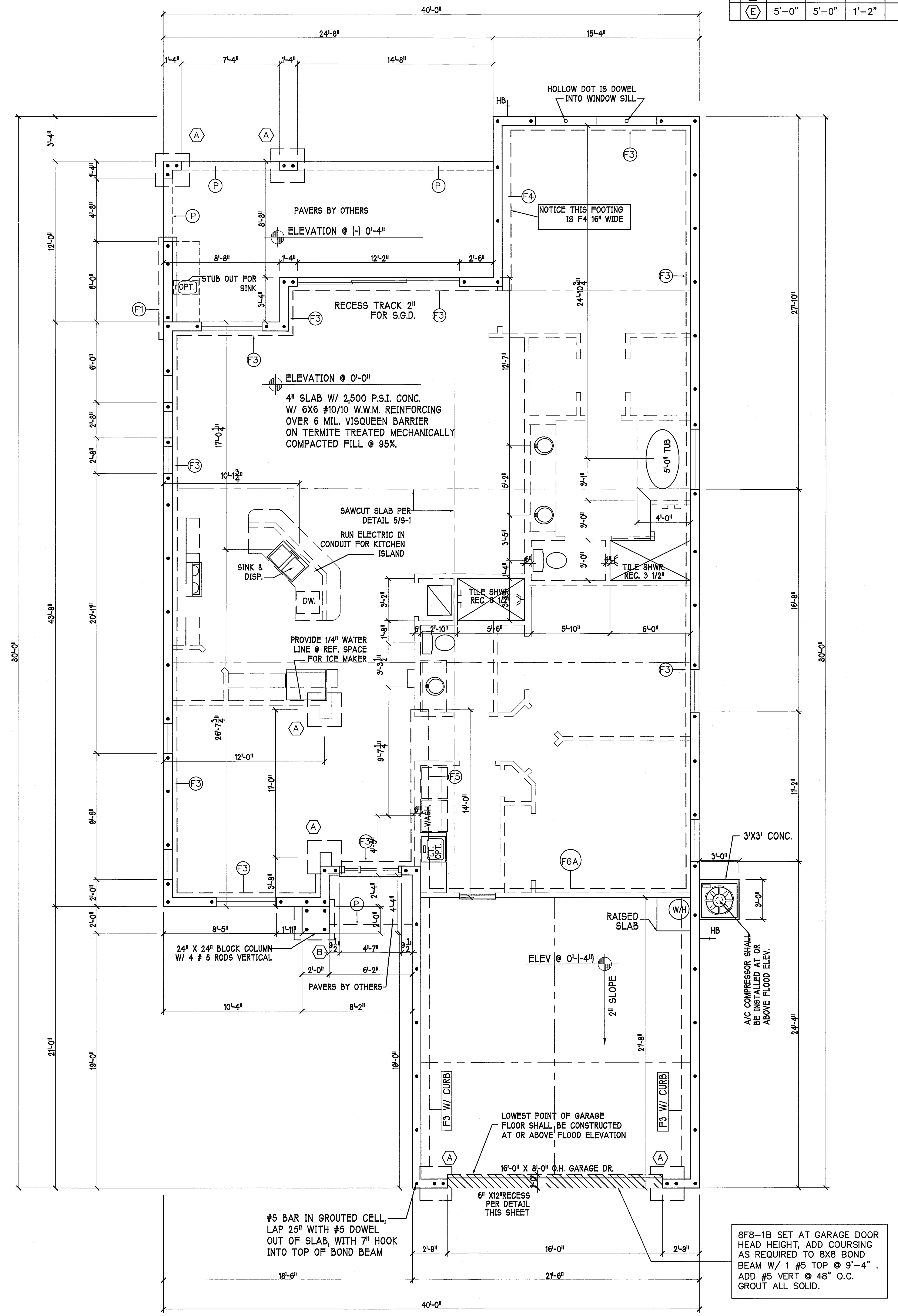
PLAN: ELEVATION

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

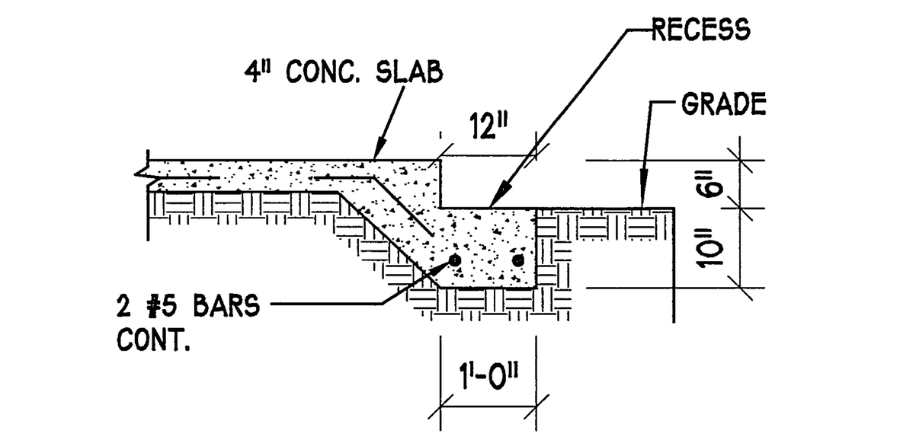
SHEET# A-1A

USED	TYPE	LENGTH	WIDTH	DEPTH	BOTTOM REINF. LONG WAY	BOTTOM REINF. SHORT WAY	REMARKS
X	A	2'-6"	2'-6"	1'-0"	3-#5	3-#5	–
	B	3'-0"	3'-0"	1'-0"	4-#5	4-#5	–
	C	3'-6"	3'-6"	1'-0"	4-#5	4-#5	–
	D	4'-0"	4'-0"	1'-2"	5-#5	5-#5	–
	E	5'-0"	5'-0"	1'-2"	6-#5	6-#5	–

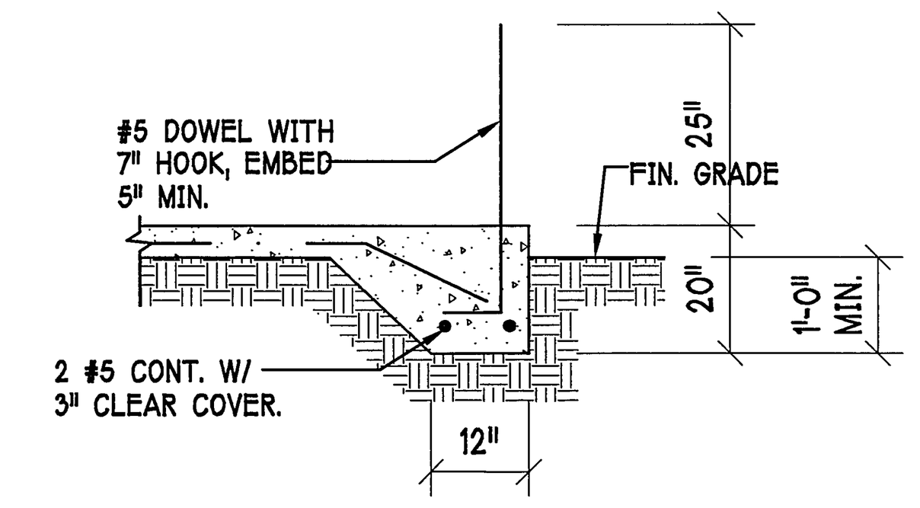
PAD FOOTING SCHEDULE



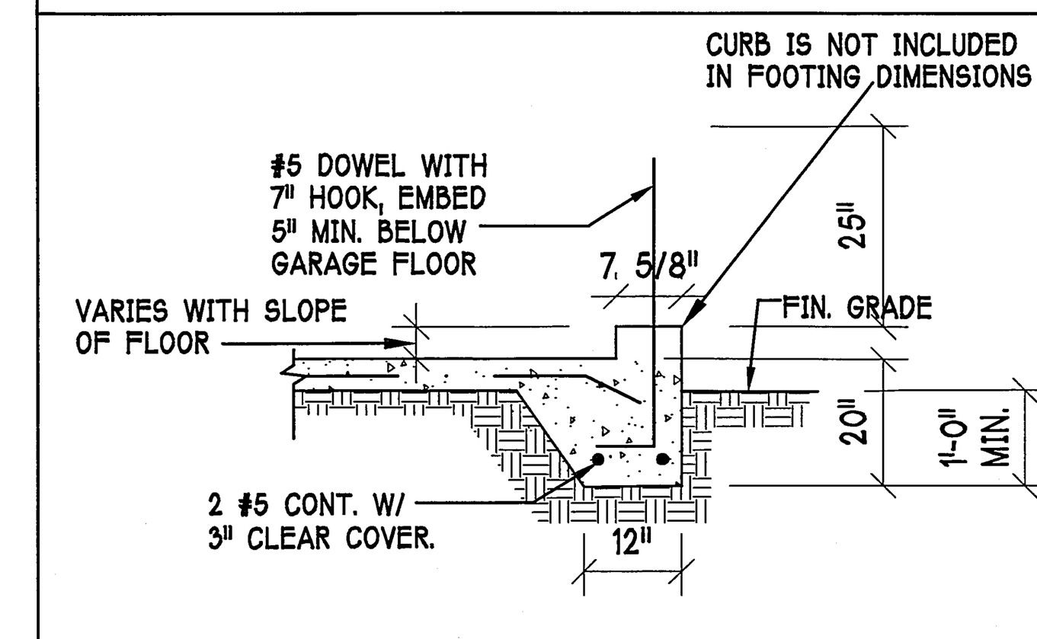
FOUNDATION PLAN: "A" SCALE: 1/4"=1'-0"



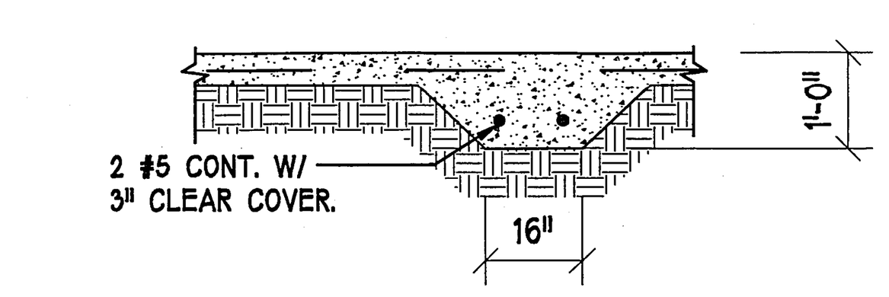
GARAGE DOOR RECESS
SCALE: 1/2" = 1'-0"



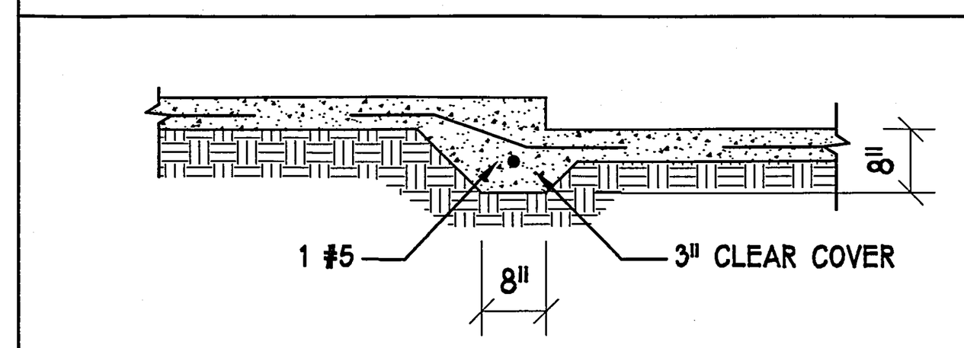
'F3' FOOTING



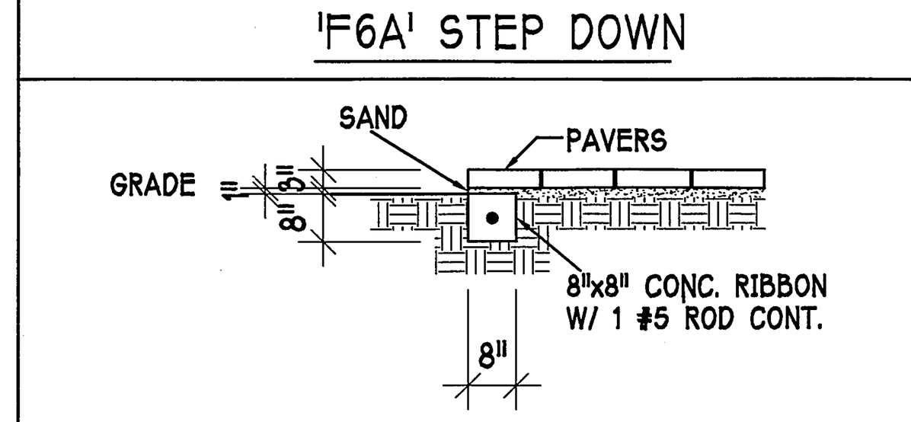
'F3' WITH CURB AT GARAGE



"F5" FOOTING



'F6A' STEP DOWN



'P' PAVERS DETAIL ENTRY/LANAI

WALL FOOTING SCHEDULE

USED	TYPE	LENGTH	WIDTH	DEPTH	BOTTOM REINFORCING	SHAPE
X	F1	CONT.	1'-4"	0'-8"	2-#5	
	F2	CONT.	1'-8"	0'-10"	2-#5	
X	F3	CONT.	1'-0"	1'-8"	2-#5	
X	F4	CONT.	1'-4"	1'-8"	2-#5	
X	F5	CONT.	1'-4"	1'-0"	2-#5	
	F6	CONT.	1'-4"	1'-0"	2-#5	
X	F6A	CONT.	8"	8"	1-#5	
	TE	CONT.	0'-8"	0'-8"	1-#5	

ADD CURB TO GARAGE, SEE DETAIL

FOUNDATION PLAN

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

PLAN NOTES:
1) TOP OF GROUND FLOOR SLAB DATUM ELEVATION 0'-0".
2) 'F#' DENOTES CONTINUOUS WALL FOOTING TYPE PER SCHEDULE THIS SHEET.
3) ⟨#⟩ DENOTES PAD FOOTING AT CONCENTRATED LOADS PER SCHEDULE THIS SHEET.
4) PROVIDE #5 VERTICAL REINFORCING AT DOT LOCATIONS SHOWN ON PLAN FROM FOOTING TO BOND BEAM.
5) ALL DIMENSIONS ARE TO OUTSIDE FACE OF MASONRY WALLS. SOME SLAB EDGES MAY EXTEND BEYOND FACE OF WALL.
6) FOR DIMENSIONS OF ROUGH OPENINGS IN MASONRY WALLS, COORDINATE WITH WINDOW/DOOR SUPPLIER.
7) PROVIDE PRESSURE TREATED BUCKS AT WINDOWS / DOORS PER DETAIL 7/S-1.

DESIGN IN ACCORDANCE WITH BUILDING CODE 2010

D·R·HORTON America's Builder

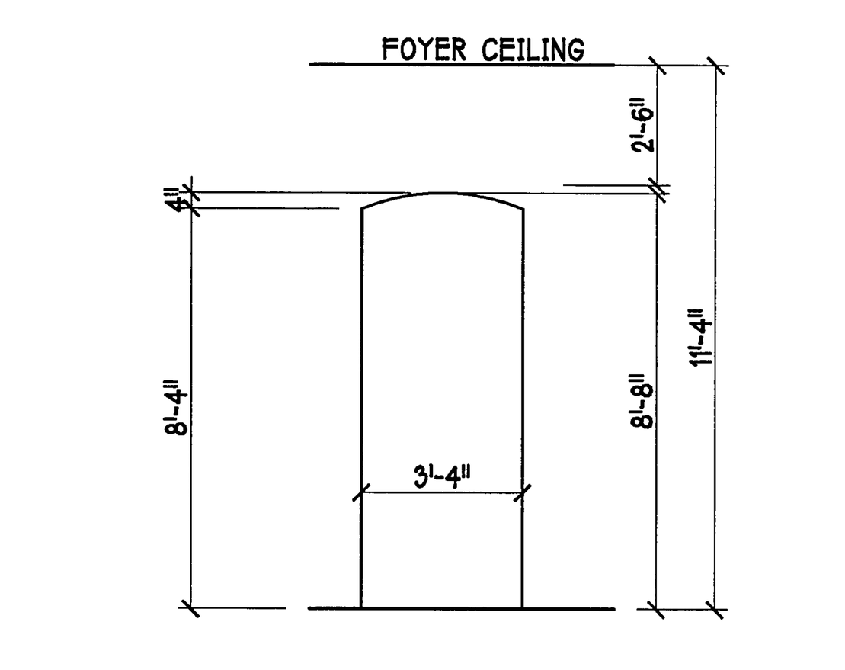
Gulf Coast Drafting & Design
Phone (239) 540-1822
Fax (239) 540-7759

STRUCTURAL SYSTEMS
AUG 0 6 2012

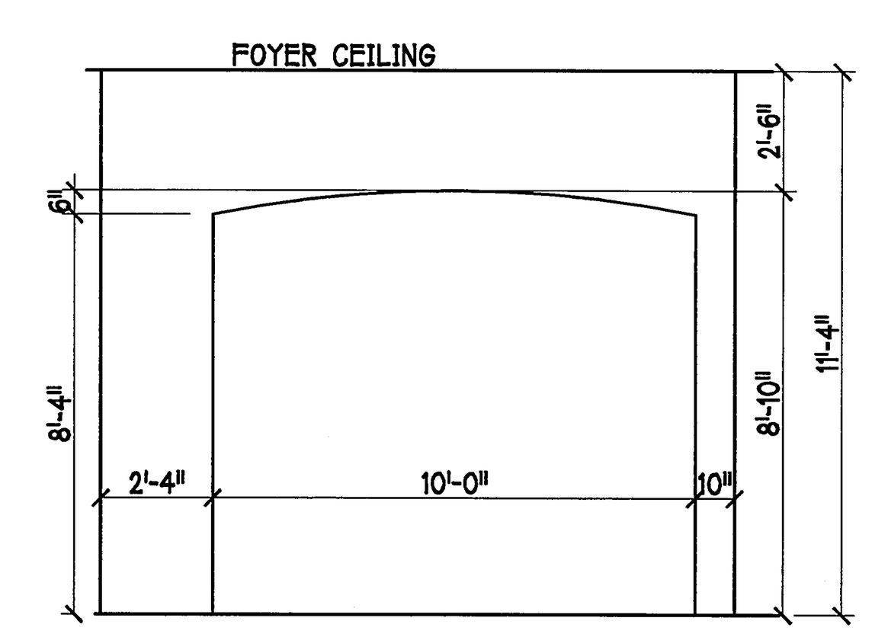
LOT: 4 BLOCK:
SUBDIV: BUCKS RUN
ADDRESS: 7875 BUCKS RUN DR.
G.C.D. JOB #: DR-2744

MODEL: UNIT 2006
RESIDENCE FOR: SPEC

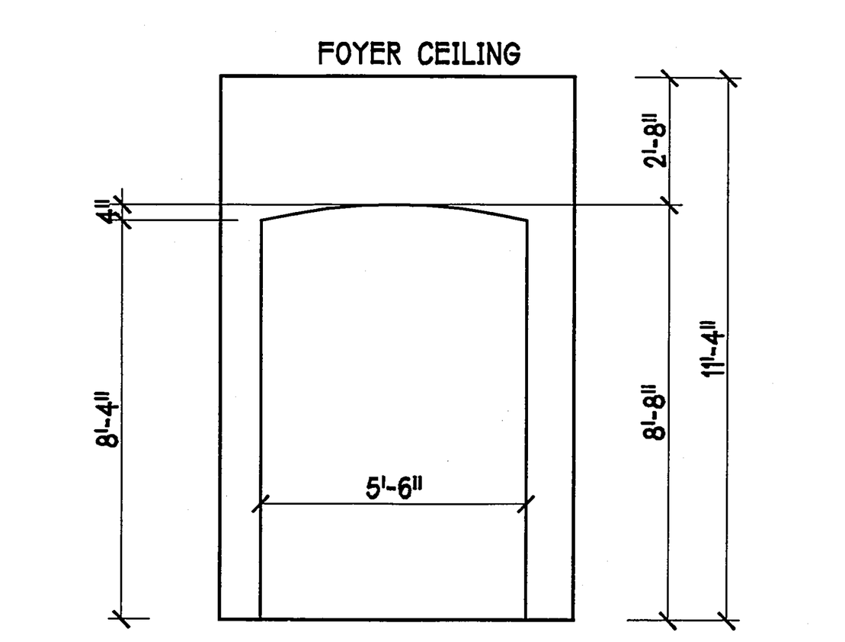
DATE: 8-6-12
DRAWN BY: D.B.
CHECKED BY: JWC
REVISED:
PLAN: FOUNDATION
SCALE: 1/4"=1'-0"
SHEET# A-2A



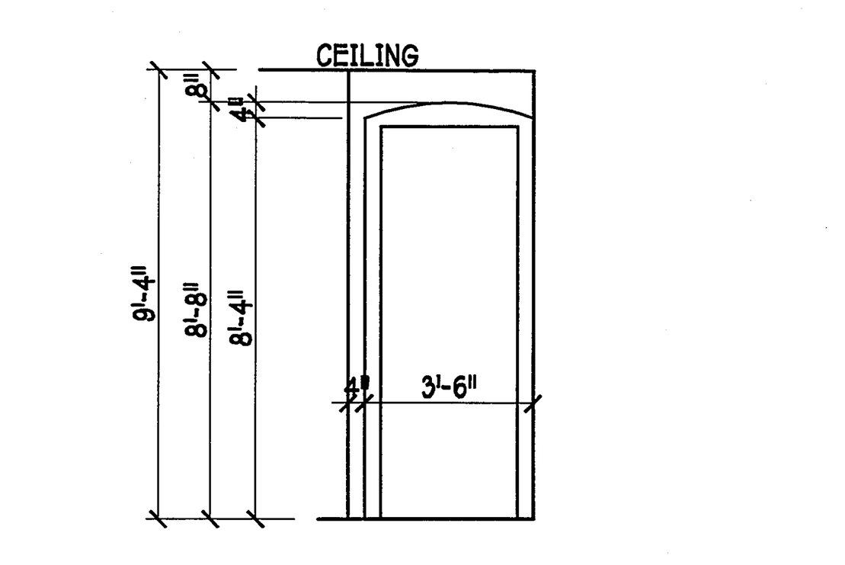
1/3 GUEST HALL DETAIL



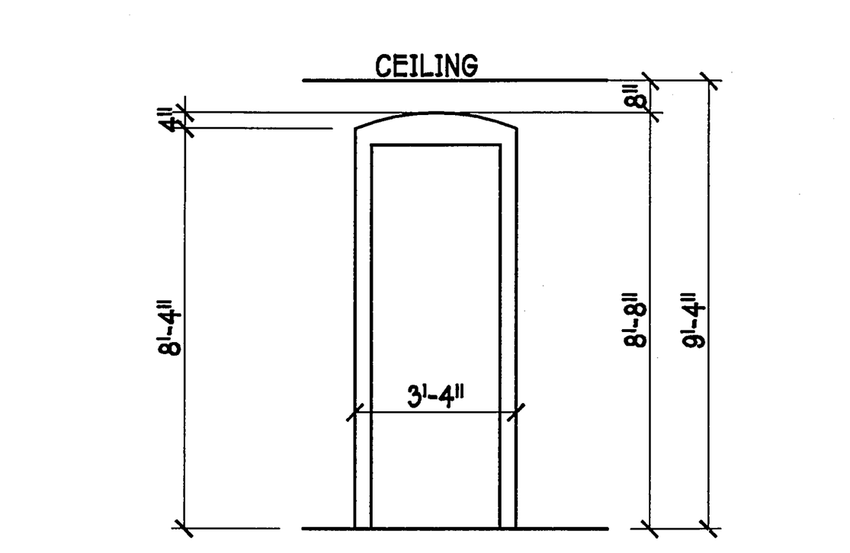
2/3 DINING/FOYER DETAIL



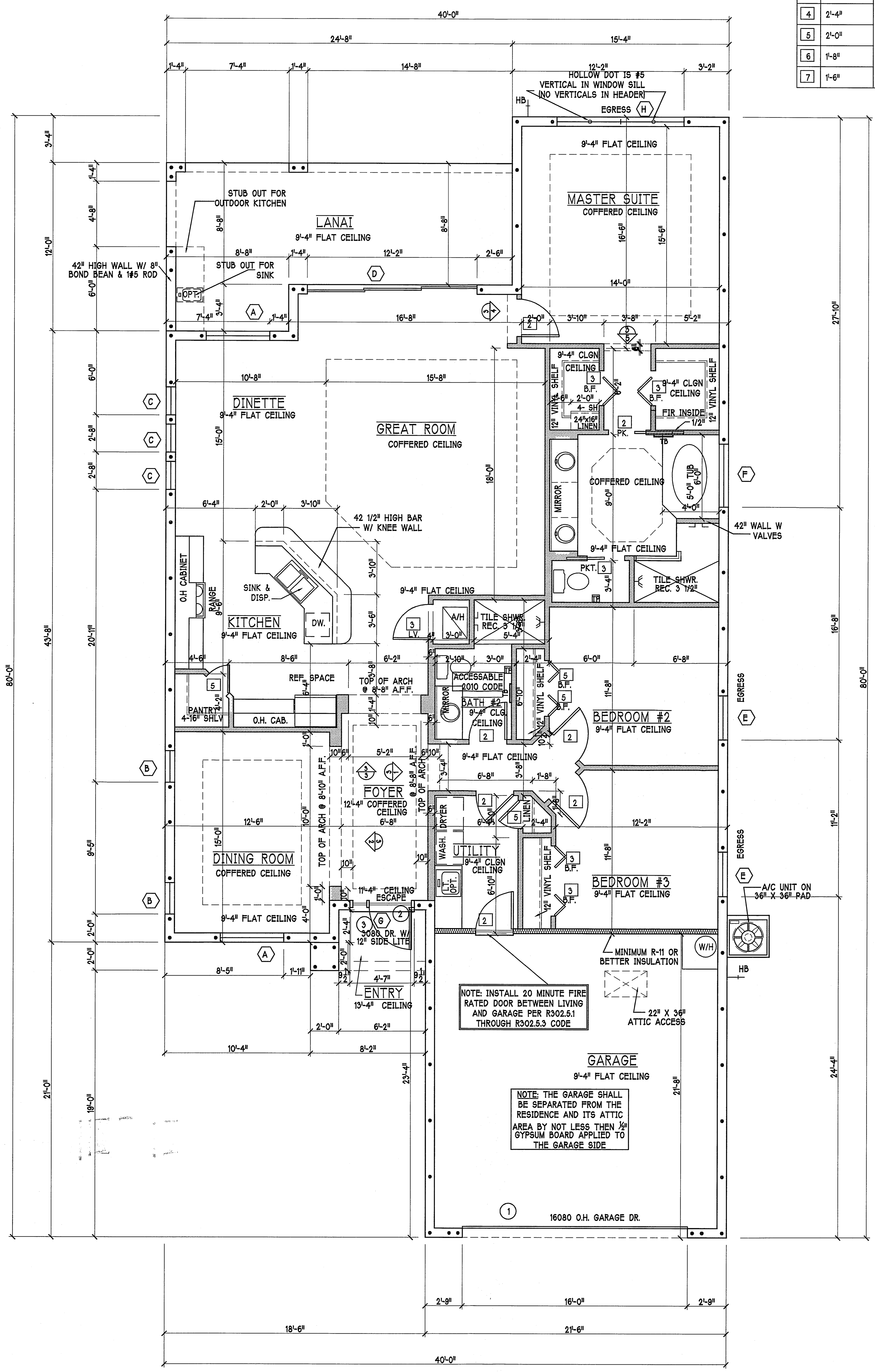
3/3 FOYER/KITCHEN DETAIL



4/3 MASTER SUITE DETAIL



5/3 MASTER SUITE DETAIL



FLOOR PLAN: "A" SCALE: 1/4" = 1'-0"

INTERIOR DOOR SCHEDULE

MARK	DOOR WIDTH	NOTES
1	3'-0"	PK. = POCKET DOOR
2	2'-8"	B.F. = BI-FOLD DOOR
3	2'-6"	B.P. = BI-PASS DOOR
4	2'-4"	LV.. = LOUVERED DOOR
5	2'-0"	
6	1'-8"	
7	1'-6"	

WIND PRESSURES PER ASCE7-10, 160 MPH, EXPOSURE B, AND CONVERTED TO ALLOWABLE STRESS DESIGN PRESSURES USING 0.6W LOAD FACTOR. Vasd=132 MPH

MARK	SIZE CODE	PRODUCT DESCRIPTION	DOOR WIDTH	DOOR HEIGHT	ZONE	WIND PRESSURE	WIND-BORNE DEBRIS PROTECTION	QTY
1	OVERHEAD	GARAGE DOOR	192	96	4&5	+23.3/-26.0		1
2	3080 ENTRY DR.	DISTINCTION	36	96	4	+27.7/-30.0		1
					5	+27.7/-37.0		
3	SIDE LITE		12	96	4	+27.7/-30.0		1
					5	+27.7/-37.0		

GARAGE DOOR ASSUMES 2' IN ZONE 5.

WIND PRESSURES PER ASCE7-10, 160 MPH, EXPOSURE B, AND CONVERTED TO ALLOWABLE STRESS DESIGN PRESSURES USING 0.6W LOAD FACTOR. Vasd=132 MPH

MARK	SIZE CODE	PRODUCT DESCRIPTION	ZONE	WIND PRESSURE	WIND-BORNE DEBRIS PROTECTION	QTY
A	35 SH		4	+27.7/-30.0	SHUTTERS	2
			5	+27.7/-37.0		
B	1/2 35 SH		4	+27.7/-30.0	SHUTTERS	2
			5	+27.7/-37.0		
C	24" X 24" FIXED GL.		4	+27.7/-30.0	SHUTTERS	3
			5	+27.7/-37.0		
D	3-4080 SL. GL. DR.	SL. GL. DOOR	4	+24.4/-26.7	SHUTTERS	1
			5	+24.4/-30.6		
E	25 SH		4	+27.7/-30.0	SHUTTERS	2
			5	+27.7/-37.0		
F	34 SH		4	+27.7/-30.0	SHUTTERS	1
			5	+27.7/-37.0		
G	55" X 24" FIXED GL. ARCHED	ABV. ENTRY DR.	4	+27.7/-30.0	SHUTTERS	1
			5	+27.7/-37.0		
H	2-35 SH		4	+27.7/-30.0	SHUTTERS	1
			5	+27.7/-37.0		
						13

PLAN NOTES:

1.) SEE EXTERIOR ELEVATION SHEET FOR DETAILS OF ALTERNATE WINDOW ARRANGEMENTS, ENTRY WALKS AND ADDITIONAL WALKS.
2.) KITCHEN KNEE WALL 42 1/2" TO TOP USING 2x4 TOP PLATE.
3.) MEDICINE CABINETS OPENING 14x18 TOP OF OPENING @ 72" / 5" OFF WALL.
4.) JOB MUST BE BROOM SWEPT EVERYDAY.
5.) VERIFY ROUGH OPENING DIMENSIONS FOR ALL WINDOWS AND DOORS.
6.) PROVIDE DEAD WOOD IN ATTIC FOR OVERHEAD GARAGE DOOR HARDWARE.
7.) INSTALL SMOOTH WALLS IN KITCHEN AND ALL BATHROOM AREAS.
8.) WHERE DRYWALL CEILING IS APPLIED TO TRUSSES AT 24" O.C. USE 5/8" DRYWALL OR 1/2" SAG RESISTANT PER SEC. 702.3.5.

CABINET BACKING

KITCHEN	UPPER TOP @ 54", 84" & 96" MICROWAVE @ 102"	BASE TOP @35"
MASTER BATH	UPPER	BASE- TOP @35"
GUEST BATH	UPPER	BASE- TOP @31"
LAUNDRY RM.	UPPER TOP @84"	BASE

BATHROOM NOTES

ALL TUB DECKS @ 21" A.F.F.

ALL BLOCKING TO BE PT IN SHOWERS

DOOR HEADERS

6'-8" BIFOLD	HEADER HEIGHT	82" A.F.F.
6'-8" SWING	HEADER HEIGHT	82 1/2" A.F.F.
8'-0" SWING	HEADER HEIGHT	98 1/2" A.F.F.

VINYL SHELF NOTES:

1) ALL CLOSET SHELVES TO BE 12"
2) ALL PANTRY & LINEN TO BE (4) 16" SHELVES 18" O.F.F. WITH 15" INCREMENT.

SQUARE FOOTAGE

FLOOR LIVING AREA	2,006
GARAGE AREA	466
ENTRY AREA	31
LANAI AREA	243
TOTAL AREA	2,746

PROVIDE SAFETY GLAZING WITHIN 24" FROM EXIT DOOR.
(PER FLORIDA BUILDING CODE-R308.3.1)

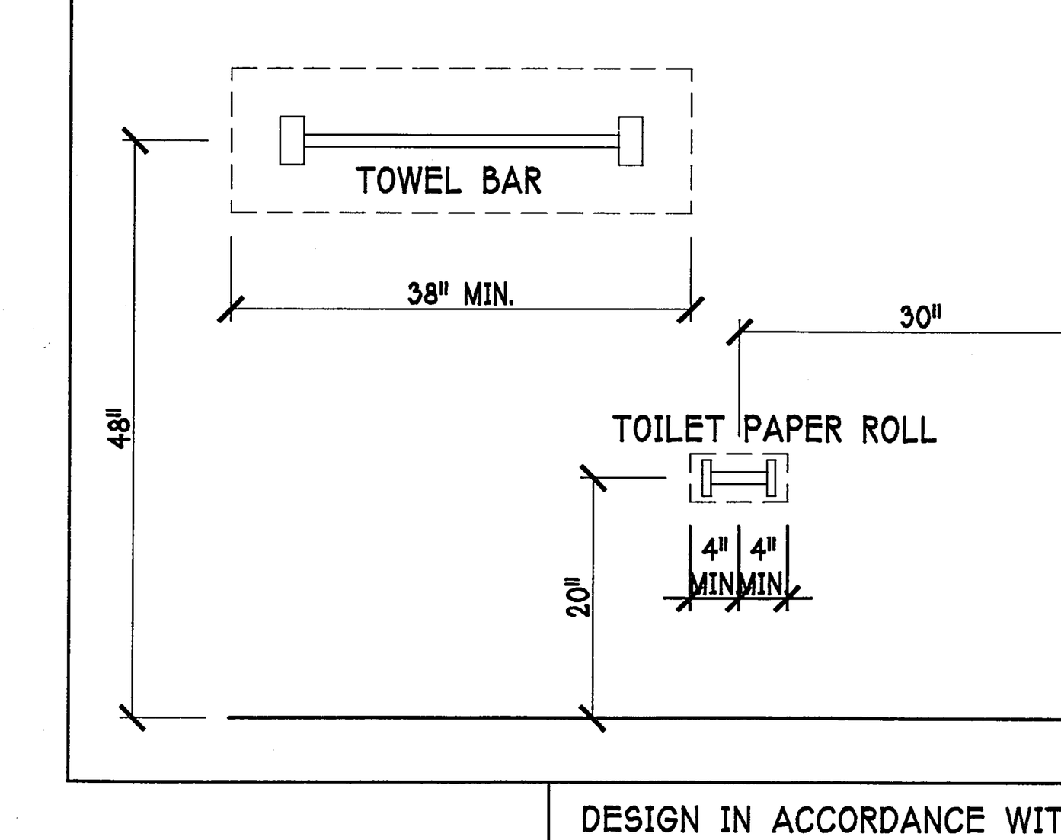
NOTE:
PROVIDE SAFETY GLAZING AT BATH/SHRW. SHALL COMPLY WITH R 308.3.1

**** NOTE: ****

STUB OUT FOR GAS @ OUTDOOR KITCHEN, RANGE, WATER HEATER, AND DRYER. VERIFY WITH CONTRACT AND SUBDIV. SPECS. A SEPARATE PERMIT IS REQUIRED FOR GAS PIPING.

BATHROOM NOTES

TB TOWEL BAR	ALL TUB DECKS @ 21" A.F.F.
TP TOILET PAPER	ALL BLOCKING TO BE PT IN SHOWERS



DESIGN IN ACCORDANCE WITH BUILDING CODE 2010

D·R·HORTON America's Builder

Gulf Coast Drafting & Design
Phone (239) 540-1822
Fax (239) 540-7759

This signature and seal is for work performed by the Structural Engineer of Record (SER) related to Structural Engineering only. No work was performed by the SER in other disciplines such as architectural, mechanical, plumbing, electrical, fire, life safety, accessibility, energy, site work, civil, or geotechnical.

STRUCTURAL ENGINEERING
STRUCTURAL SYSTEMS OF NORTH FLORIDA
1634 S.E. 47th ST SUITE #3
CAPE CORAL, FL 33904
(239) 549-4554
CA# 8829

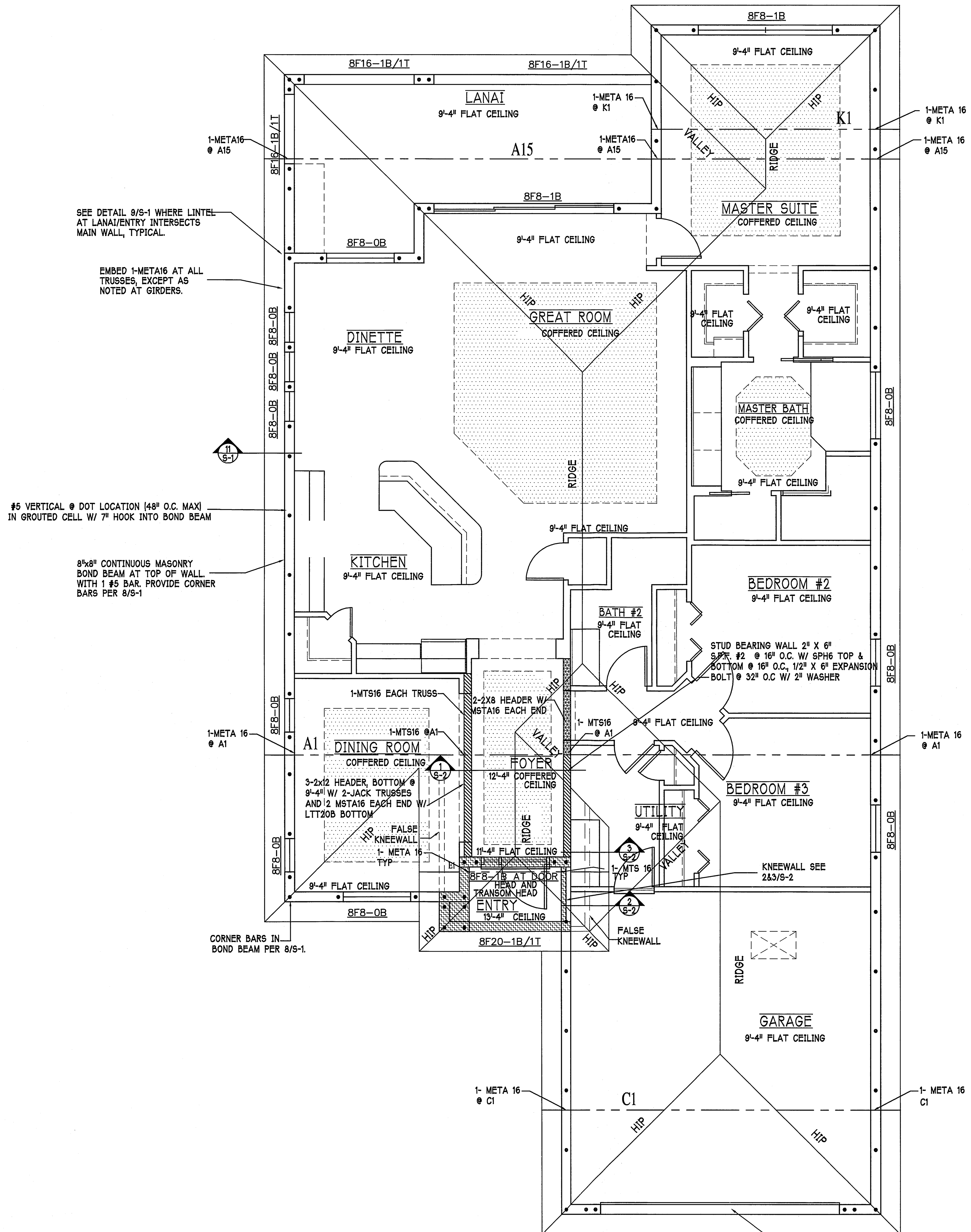
AUG 0 6 2012
FL PE #58852

LOT: 4 BLOCK :
SUBDIV: BUCKS RUN
ADDRESS: 7875 BUCKS RUN DR.
G.C.D. JOB #: DR-2744

MODEL: UNIT 2006
RESIDENCE FOR: SPEC

DATE: 8-6-12
DRAWN BY: D.B.
CHECKED BY: JWC
REVISED:
PLAN: FLOOR PLAN
SCALE: 1/4" =1'-0"
SHEET# A-3A

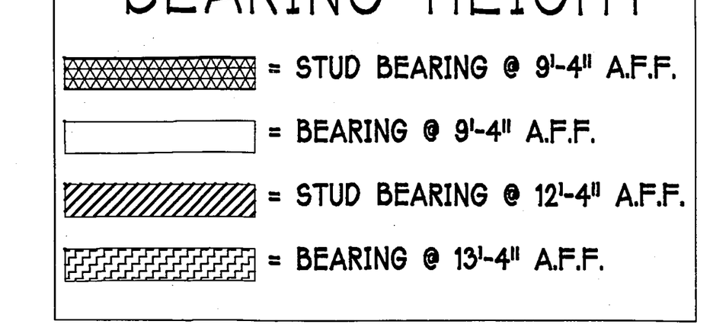
ATTIC VENTILATION		
	WITHOUT OFF RIDGE VENTS	WITH OFF RIDGE VENTS
ATTIC AREA	VENTILATION REQUIRED (ATTIC AREA 1/150)	VENTILATION REQUIRED (ATTIC AREA 1/300)
2977 SQ. FT.	19.8 SQ. FT.	9.9 SQ. FT.

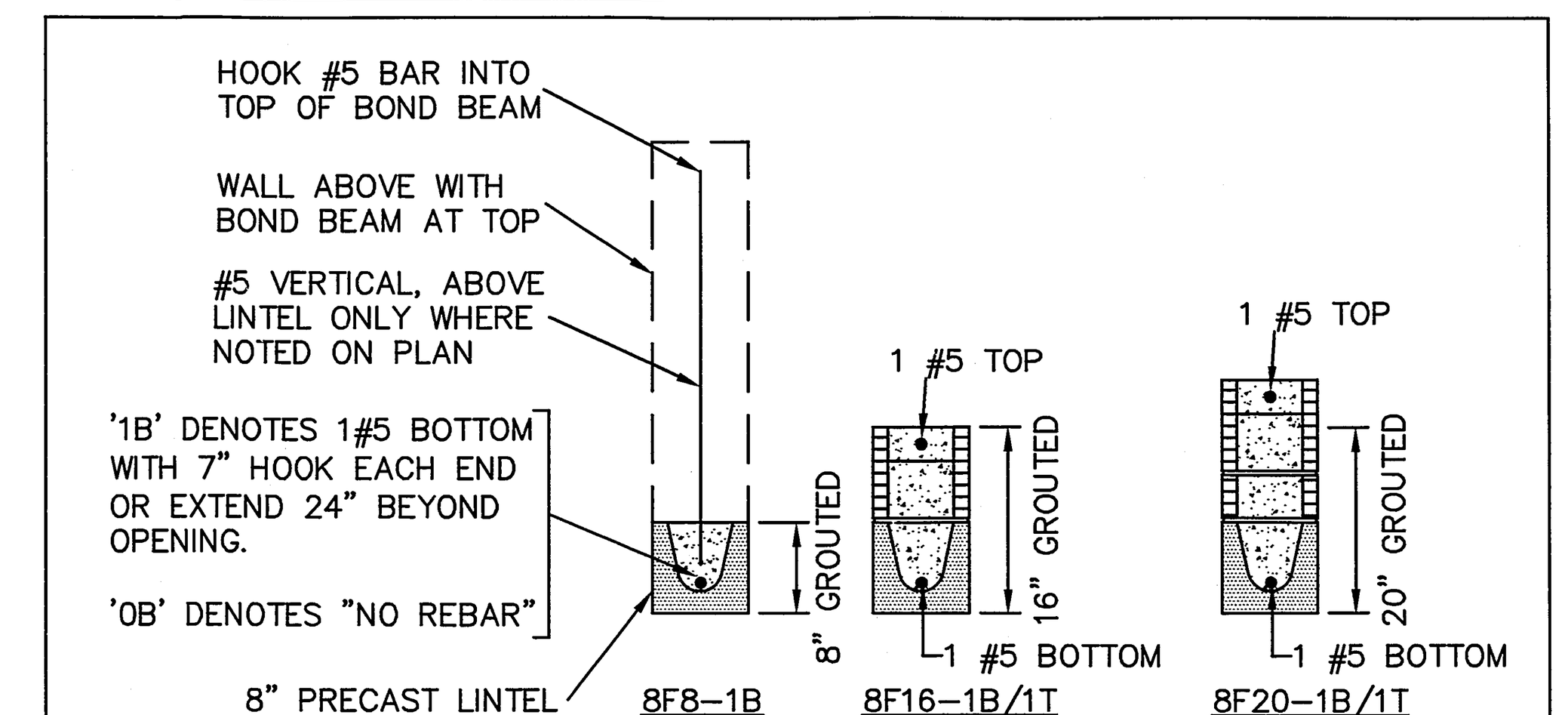


ROOF PLAN "A" SCALE: 1/4" = 1'-0"

TRUSS BEARING CONDITIONS AND STRAPPING IS BASED ON TRUSS LAYOUT PREPARED BY SOUTHERN TRUSS COMPANIES,INC. JOB # 2006A – 2744

BEARING HEIGHT





PRECAST LINTEL SCHEDULE

AT SWING DOORS, USE 2" RECESS STYLE LINTEL IF NEEDED FOR ROUGH OPENING.

PLAN NOTES:
1) ROOF TRUSS BEARING ELEVATION VARIES, SEE LEGEND.
2) ROOF FRAMING SHALL BE WOOD TRUSSES DESIGNED BY A DELEGATED TRUS[illegible] CRITERIA ON SHEET S–1.
3) PROVIDE STRAPPING AT TRUSSES PER NOTES ON THIS SHEET.
4) FOR NAILING OF ROOF DECK, SEE 1 AND 2 ON S–1.
5) 8F8–1B etc., DENOTES PRECAST LINTEL ABOVE DOOR/WINDOW OPENING PER SCHEDULE THIS SHEET.
6) AT TRUSS BEARING, PROVIDE 8x8 MASONRY BOND BEAM W/ 1 #5 CONTINUOUS, SEE DETAIL 2/A–6.

INSTALL META16 AT ALL TRUSSES TO 1450 lb UPLIFT. FOR HIGHER UPLIFTS, SEE NOTES ON PLAN.

TRUSS STRAPPING TO MASONRY		
MAX TRUSS UPLIFT @ 24" OC (LBS)	CONNECTOR	FASTENER
1450	(1)META16 TO 40	9–10dx1 1/2", EMBED 4"
1810	(1)HETA16 TO 40	10–10dx1 1/2", EMBED 4"
2235	(1)HHETA16 TO 40	12–10dx1 1/2", EMBED 4"
1985 (1 PLY)	(2)META12 TO 40	12–10dx1 1/2", EMBED 4"
1900 (2 PLY)	(2)META12 TO 40	14–16d, EMBED 4"
2500 (2 PLY)	(2)HETA12 TO 40	14–16d", EMBED 4"
2500 (2 PLY)	(2)HHETA12 TO 22	14–16d", EMBED 4"

NOTES:
1) PROVIDE A STRAP FROM THE ABOVE LIST AT EACH ROOF TRUSS BEARING POINT, BASED ON THE TRUSS UPLIFT VALUES IN THE SIGNED AND SEALED TRUSS DESIGN PACKAGE AND SUITABLE FOR THE GEOMETRY. EMBED STRAP ON ℄ OF WALL.
2) CONNECTORS ARE SIMPSON STRONG TIE. ALL CONNECTORS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH SIMPSON PRINTED INSTRUCTIONS. SUBSTITUTIONS MUST BE APPROVED IN WRITING BY THE ENGINEER OF RECORD.
3) WHERE EMBEDDED STRAPS ARE MISSING, OR MIS–LOCATED, INSTALL RETROFIT STRAP PER 10/S–1.

REV 2

DESIGN IN ACCORDANCE WITH BUILDING CODE 2010

D·R·HORTON America's Builder

Gulf Coast Drafting & Design
Phone (239) 540-1822
Fax (239) 540-7759

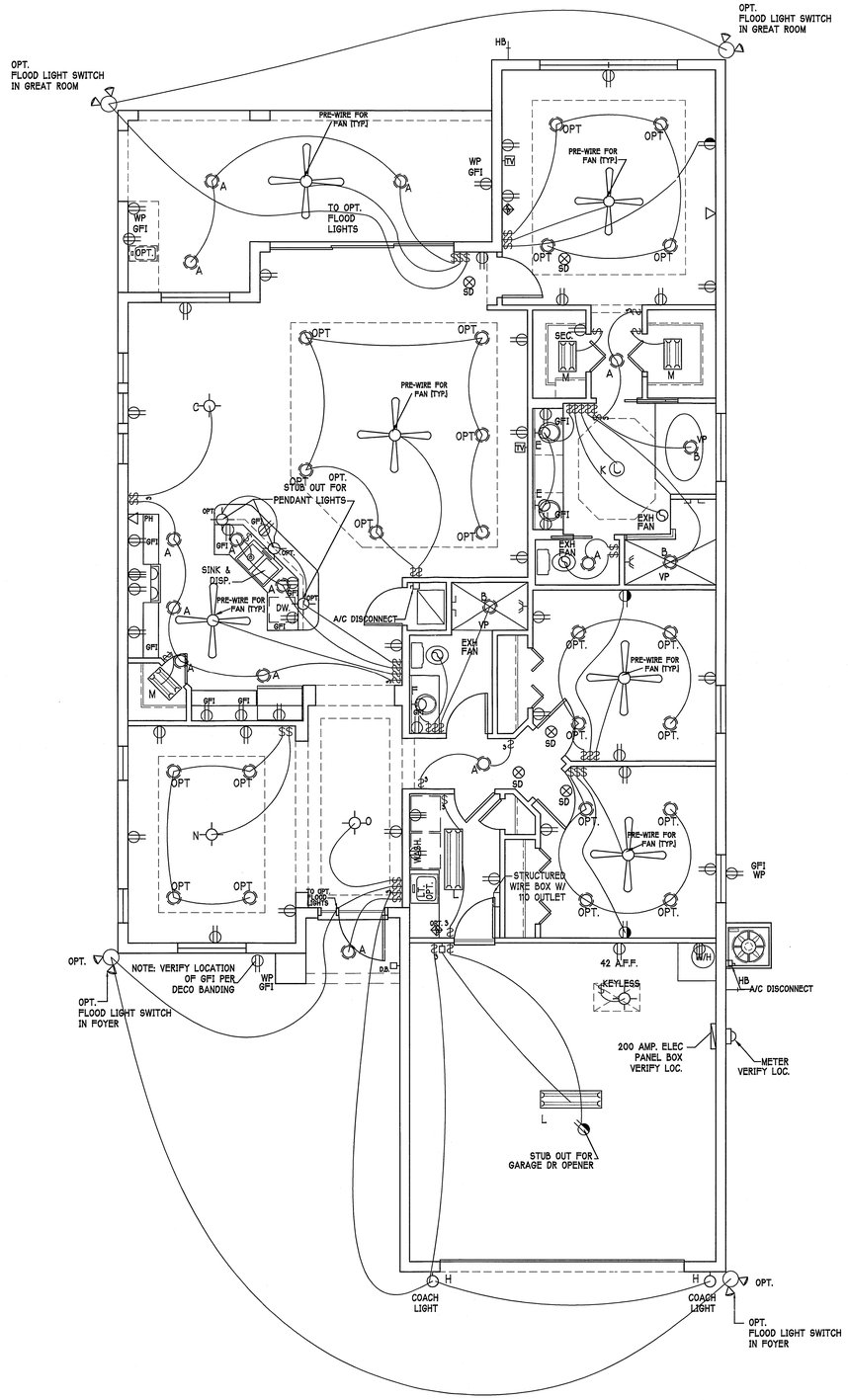
STRUCTURAL SYSTEMS OF NORTH FLORIDA

LOT: 4 BLOCK:
SUBDIV: BUCKS RUN
ADDRESS: 7875 BUCKS RUN DR.
G.C.D. JOB #: DR-2744

UNIT 2006

RESIDENCE FOR: SPEC

DATE: 8-6-12
DRAWN BY: D.B.
CHECKED BY: JWC
REVISED:
PLAN: ROOF "A"
SCALE: 1/4" = 1'-0"
SHEET# A-4A



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

ELECTRICAL LEGEND

	ELECTRICAL METER
	ELECTRICAL PANEL
J	120 V JUNCTION BOX
	SINGLE RECEPTACLE OUTLET
	220 V RECEPTACLE OUTLET
	4-PLEX RECEPTACLE OUTLET
	DUPLEX RECEPTACLE OUTLET
	1/2 SWITCHED DUPLEX OUTLET
	DUPLEX RECETACLE @ ELEV. A.F.F.
T	TIMER SWITCH
GFI	GFI SWITCH
D	DIMMER SWITCH
3	3 WAY SWITCH
	SINGLE POLE SWITCH
SD	AC/DC SMOKE DETECTOR TO BE INTERCONNECTED ANY RESIDENT HAVING A FOSSIL-BURNING HEATER OR APPLIANCE, A FIREPLACE, OR AN ATTACHED GARAGE SHALL HAVE AN OPERATIONAL CARBON MONOXIDE ALARM INSTALLED WITHIN 10 FEET OF EACH ROOM USED FOR SLEEPING PERPOSES. PER RULE 9B-3.04.72
	TELEPHONE OUTLET
TV	TELEVISION RECEPTION OUTLET
	SURFACE MOUNTED CEILING LIGHT
	RECESSED LIGHT
	WALL MTD. BRACKET LIGHT
	DUPLEX FLOOD LIGHT
	EXHAUST FAN
	TRACK MTD. LIGHTS
	A/C DISCONNECT
	PUSH BUTTON
DB	DOOR BELL
KP	KEYPAD
	4' FLUORESCENT LIGHT
	2' UNDER COUNTER LIGHT

Electrical Notes:

Install Arc-Fault circuit-Interrupters & Tamper-Resistant Receptacles shall be installed in dwelling unit, per NEC 210.12 & 406.11

All electrical equipment to be set at or above base flood elevation.

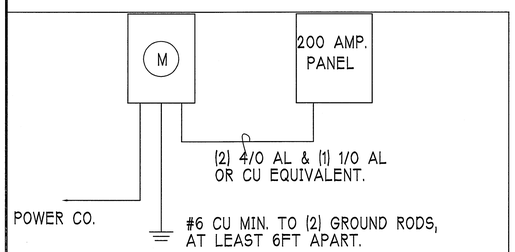
All outlets in wet areas and all exterior outlets to be GFI's

Install Phone & T.V per contract .

INSTALL ALL ELECTRICAL PER NEC 2008

OPTIONAL ELECTRICAL PLAN 2006 "A"

200 Amp Service			
TAG	QUANTITY	PRODUCT	PRODUCT #
A	(35)	Recessed Cans	
B	(3)	Vapors	
C	(1)	Pendent/Nook	P5090-09
D	(X)	10" Mushrooms	P3410-30
E	(2)	24" Hollywood	P3298-15
F	(1)	36" Hollywood	P3299-15
G	(X)	48" Hollywood	P3300-15
H	(2)	Coach Lights	P5815-30
J	(X)	Coach Lights	P5683-30
K	(1)	J BOX	
L	(2)	4' FLUORESCENT	
M	(3)	2' FLUORESCENT	
N	(2)	5 lt Chandelier	P4391-09
O	(1)	2 lt FOYER	P3895-09
	(2)	Keyless	



200 AMP ELECTRICAL RISER DIAGRAM

DESIGN IN ACCORDANCE WITH BUILDING CODE 2010

D·R·HORTON America's Builder

Gulf Coast Drafting & Design
Phone (239) 540-1822
Fax (239) 540-7759

MODEL: UNIT 2006
LOT: 4 BLOCK:
SUBDIV: BUCKS RUN
RESIDENCE FOR: SPEC
ADDRESS: 7875 BUCKS RUN DR.
G.C.D. JOB # : DR-2744

DATE: 8-6-12
DRAWN BY: D.B.
CHECKED BY: JWC
REVISED:
PLAN: ELECTRICAL
SCALE: 1/4" =1'-0"
SHEET# A-5A

1

RESIDENTIAL SPECIFICATIONS

GENERAL NOTES

1. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE JOB SITE PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL REPORT ALL DISCREPANCIES BETWEEN THE DRAWINGS AND EXISTING CONDITIONS TO THE DESIGNER PRIOR TO COMMENCING WORK.

2. THE CONTRACTOR SHALL SUPPLY, LOCATE AND BUILD INTO THE WORK ALL INSERTS, ANCHORS, ANGLES, PLATES, OPENINGS, SLEEVES, HANGERS, SLAB DEPRESSIONS AND PITCHES AS MAY BE REQUIRED TO ATTACH AND ACCOMMODATE OTHER WORK.

3. ALL DETAILS AND SECTIONS SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL BE CONSTRUCTED TO APPLY TO ANY SIMILAR SITUATION ELSEWHERE IN THE WORK EXCEPT WHERE A DIFFERENT DETAIL IS SHOWN.

4. SUBSURFACE SOIL CONDITION INFORMATION IS NOT AVAILABLE FOUNDATIONS ARE DESIGNED FOR A SOIL BEARING CAPACITY OF 2,000 PSF. THE CONTRACTOR SHALL REPORT ANY DIFFERING CONDITIONS TO THE DESIGNER PRIOR TO COMMENCING WORK.

5. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH JOB SPECIFICATION AND HOUSE PLANS, MECHANICAL, ELECTRICAL, PLUMBING, AND SITE DRAWINGS, CONSULT THESE DRAWINGS FOR SLEEVES, DEPRESSIONS AND OTHER DETAILS NOT SHOWN ON STRUCTURAL DRAWINGS.

6. ALL SPECIFIED FASTENERS MAY ONLY BE SUBSTITUTED IF APPROVED BY THE ENGINEER IN WRITING, THE INSTALLATION OF THE FASTENERS SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. SIMPSON FASTENERS SPECIFIED MAY BE SUBSTITUTED WITH THE SAME QUANTITY AND EQUIVALENT STRENGTH PRODUCT.

7. TREATED WOOD REQUIREMENTS:- ALL WOOD EXPOSED TO WEATHER SHALL BE PROTECTED, PRESSURE TREATED, OR NATURALLY RESISTANT TO DECAY. ALL WOOD TOUCHING MASONRY OR CONCRETE SHALL BE ISOLATED, OR PRESSURE TREATED.

8. THE STRUCTURE IS DESIGNED TO BE SELF SUPPORTING AND STABLE AFTER THE BUILDING IS COMPLETE. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCES TO ENSURE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING ERECTION. THIS INCLUDES THE NECESSARY SHORING, SHEETING, TEMPORARY BRACING, GUYS, OR TIE DOWNS.

9. CEILING DRYWALL INSTALLED WITHIN THE HOUSE TO TRUSSES SPACED 24" O.C. SHALL BE 5/8" DRYWALL OR 1/2" SAG RESISTANT PER SEC. 702.3.5

10. LANAI CEILINGS & COVERED ENTRY CEILINGS 1X4 STRIPPING @ 16" O.C. FASTENED WITH 2-8d NAILS TO EACH TRUSS. 5/8" EXTERIOR GYPBOARD CEILING FASTENED WITH 8d NAILS OR 1-5/8" DRYWALL SCREWS @ 6" oc EDGE AND FIELD.

2

DOOR AND WINDOW ANCHORAGE

ANCHORAGE REQUIREMENTS:- ALL PASS AND SLIDING GLASS DOORS AND ALL WINDOW ASSEMBLIES SHALL BE ANCHORED TO THE MAIN WIND FORCE RESISTING SYSTEM IN A MANNER SPECIFIED BY THE PUBLISHED MANUFACTURERS LITERATURE. THERE SHALL BE NO SUBSTITUTION OF ALTERNATE FASTENINGS UNLESS PROVIDED BY THE MANUFACTURER AND APPROVED BY THE BUILDING DESIGN ENGINEER.

MASONRY OPENING
WHERE WINDOW FRAME IS DESIGN TO FASTEN WITH SCREWS THROUGH THE FRAME AND INTO THE MASONRY, THE BUCK MATERIEL IS SIMPLY A SPACER. THE BUCK MAY BE FASTENED WITH T NAILS OR ANY SUITABLE FASTENER TO TACK IT INTO POSITION PRIOR TO WINDOW INSTALLATION. FASTEN WINDOW FRAME PER MFR INSTRUCTIONS. A WINDOW FASTENER SHALL PENETRATE MASONRY BY 2 1/4" MIN.

WHERE WINDOW FRAME IS DESIGNED TO FASTEN ONLY TO THE WOOD BUCK (IE, FLANGED FRAME WITH WOOD SCREWS) THE BUCKS SHALL BE 2X WOOD WITH STRUCTURAL FASTENING TO THE MASONRY WITH 1/4X 3 3/4 MASONRY SCREWS @ 24" OC AND 6" FROM EACH END.

WOOD FRAMED OPENING:- ALL DOORS AND WINDOWS SHALL BE INSTALLED ACCORDING TO THE PUBLISHED MANUFACTURES LITERATURE OF THE ASSEMBLY BEING INSTALLED TO THE ROUGH SUBSTRATE OPENING. SHIMS SHALL BE MADE OF MATERIALS CAPABLE OF RESISTING THE APPLIED LOADS AND SHALL BE LOCATED NEAR EACH FRAME FASTENERTO MINIMIZE DISTORTION OF THE FRAME AS THE FASTENERS ARE TIGHTENED.

3

GENERAL ROOF ASSEMBLY

ROOF SHEATHING

SHALL BE APA RATED SHEATHING, EXPOSURE 1, SPAN RATING 24/16 OR BETTER. INSTALL PANELS WITH LONG DIMENSION PLACED PERPENDICULAR TO TRUSSES. A 1/8" SPACE BETWEEN ADJACENT SHEETS SHALL BE MAINTAINED. INSTALL "H" CLIPS AT UNSUPPORTED PANEL EDGES. THE ROOF SHEATHING SHALL BE NAILED WITH 8d RING SHANK NAILS @6" O.C. EDGE AND FIELD. ENSURE THAT ALL NAILS PENETRATE THE TOP CHORD OF THE TRUSS WITHOUT SPLITTING. RING SHANK NAILS PER R803.2.3.1 - 0.113" NOMINAL SHANK DIAMETER, RING DIA. OF 0.012" OVER SHANK DIAMETER, 16 TO 20 RINGS PER INCH, 0.280" DIAMETER FULL ROUND HEAD, 2" NAIL LENGTH.

FLASHING
FLASHING SHALL BE ALUMINUM, ALUMINUM ZINC COATED STEEL .0179 INCHES THICK, 26 GAGE AZ50 ALUM ZINC, OR GALVANIZED STEEL .0179 INCHES THICK, 26 GAGE ZINC COATED G90, FLASHING SHALL BE INSTALLED IN ACCORDANCE WITH THE ZIP SYSTEM ROOF SHEATHING MANUFACTURERS PUBLISHED REQUIREMENTS. ALL FLASHING AND INSTALLATION SHALL CONFORM TO SECTION R905.2.8 (1 TO 5).

DRIP EDGE
DRIP EDGE SHALL BE PROVIDED AT ALL EAVES AND GABLES OF SHINGLE ROOFS, LAPPED A MINIMUM OF 3" @ JOINTS. THE OUTSIDE EDGE SHALL EXTEND A MINIMUM OF 1/2" BELOW SHEATHING AND THE INSIDE EDGE SHALL EXTEND BACK A MINIMUM OF 2". DRIP EDGE SHALL BE FASTENED AT NO MORE THAN 4" CENTERS. THERE SHALL BE A MINIMUM OF 4" WIDTH OF ROOF CEMENT INSTALLED OVER THE DRIP EDGE FLANGE.

4

WOOD FRAMING:

1. ALL WOOD FRAMING SHALL BE FABRICATED AND INSTALLED PER NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION.

2. UNLESS NOTED OTHERWISE THE FOLLOWING MINIMUM GRADES SHALL BE USED:

   A. INTERIOR BEARING WALLS SPF #2

   B. RAFTERS, JOISTS, HEADERS AND BEAMS SYP #2. EXTERIOR BEARING WALLS,

3. TREATED WOOD REQUIREMENTS: ALL WOOD EXPOSED TO WEATHER SHALL BE PROTECTED, PRESSURE TREATED, OR NATURALLY RESISTANT TO DECAY. ALL WOOD TOUCHING MASONRY OR CONCRETE SHALL BE ISOLATED, PRESSURE TREATED.

4. CONTRACTOR SHALL PROVIDE ALL FASTENING DEVICES AS SHOWN ON THE DRAWINGS AND AS NECESSARY AND SUITED FOR EACH APPLICATION. FASTENING SUBJECT TO MOISTURE SHALL BE HOT DIP GALVANIZED TO ASTM A-153-80, OR STAINLESS STEEL.

5. ALL METAL CONNECTIONS AND FABRICATIONS SHALL COMPLY WITH AISC SPECIFICATIONS.

6. SOLID BLOCK ALL JOISTS AND RAFTERS AT POINTS OF SUPPORT.

7. PREFABRICATED STRUCTURAL TRUSSES SHALL COMPLY WITH NFPA NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION, TPI DESIGN SPECIFICATIONS FOR METAL PLATE WOOD TRUSSES AND ATTIC 100.

8. ALL TRUSSES SHALL BE DESIGNED AND CERTIFIED BY THE TRUSS MANUFACTURER'S STATE OF FLORIDA REGISTERED ENGINEER.

9. CONTRACTOR SHALL CORRELATE WITH TRUSS MANUFACTURER TO ENSURE THAT ADEQUATE BEARING IS IS PROVIDED AT END REACTIONS OF ALL GIRDER TRUSSES.

10. TRUSS MANUFACTURER SHALL SUBMIT SHOP DRAWINGS TO THE CONTRACTOR AND DESIGNER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF DIMENSIONS, MATERIALS AND CONDITIONS.

11. AT VOLUME CEILING CONDITIONS, ALIGN TRUSSES TO PROVIDE A SMOOTH AND UNBROKEN INTERIOR WALL SURFACE FROM FLOOR TO CEILING.

12. BRACE TRUSSES DURING ERECTION AND AFTER PERMANENT INSTALLATION TO COMPLY WITH TPI BWY-76.

13. MICRO-LAMS (OR EQUAL PARALAMS, LVL'S, ETC.) SHALL BE USED WHERE SPECIFIED ON ENGINEERED PLANS AND INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. ANY EDGES OR ENDS EXPOSED TO THE WEATHER SHALL BE PROTECTED BY THE INSTALLATION OF 26 GA., MIN., GALVANIZED STEEL FLASHING.

14. SPLICES IN MULTI-BOARD CONTINUOS BEAMS SHALL BE ALLOWED FOR ONE BOARD ONLY PER SPAN AND ONLY AT THE QUARTER POINT OF THE SPAN, UNLESS SHOWN OTHERWISE.

15. SPACE FRAMING OF ARCHES UNDER TIE BEAM SHALL BE FILL IN FRAME UNLESS NOTED OR CONSTRUCTED OTHERWISE.

5

ASPHALT SHINGLE ROOF SPEC'S

SHINGLES
15# felt shall be installed under asphalt shingles. All asphalt shingles shall have self sealing strips or be interlocking and comply with ASTM D 225 or D3462, and shall be secured to the roof with no less than 6 fasteners per shingle strip, or a minimum of 2 fasteners per shingle tab. And shall in no case be fastened with less fasteners than that required by the manufacture. Installation shall comply with the manufactures requirements for installation in the given Florida wind zone, as determined by ASTM D 3161.

FASTENERS
Fasteners for asphalt shingles shall comply with ASTM F 1667, and shall be made of galvanized steel, stainless steel or aluminum with a minimum shank size of 12 gage (0.105 inches)with a minimum 3/8 inch diameter head and shall be of a length to penetrate the sheathing.

The nail component of plastic cap nails shall meet or exceed the requirements of ASTM A 641, Class I, or equal, and shall be corrosion resistant by coating electro galvanization, mechanical galvanization, hot dipped galvanization or shall be made of stainless steel, non ferrous metal.

6

CLAY AND CONCRETE TILE ROOF SPECS

INSTALL PEEL AND STICK UNDERLAYMENT APPROVED FOR SINGLE LAYER APPLICATION UNDER TILE ROOF.
THE INSTALLATION OF CLAY AND CONCRETE TILE SHALL COMPLY WITH THE PROVISIONS OF R905.3 F.B.C.
MARKING: EACH ROOF TILE SHALL HAVE A PERMANENT MANUFACTURER'S IDENTIFICATION MARK.
APPLICATION SPECIFICATIONS: THE TILE MANUFACTURER'S WRITTEN APPLICATION SPECIFICATIONS SHALL BE AVAILABLE AND SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING:
1. TILE PLACEMENT AND SPACING,
2. ATTACHMENT SYSTEM NECESSARY TO COMPLY WITH CURRENT WIND CODE,
A. AMOUNT AND PLACEMENT OF MORTAR
B. AMOUNT AND PLACEMENT OF ADHESIVE,
C. TYPE, NUMBER, SIZE, AND LENGTH OF FASTENERS AND CLIPS.
3. UNDERLAYMENT
4. SLOPE REQUIREMENT.

7

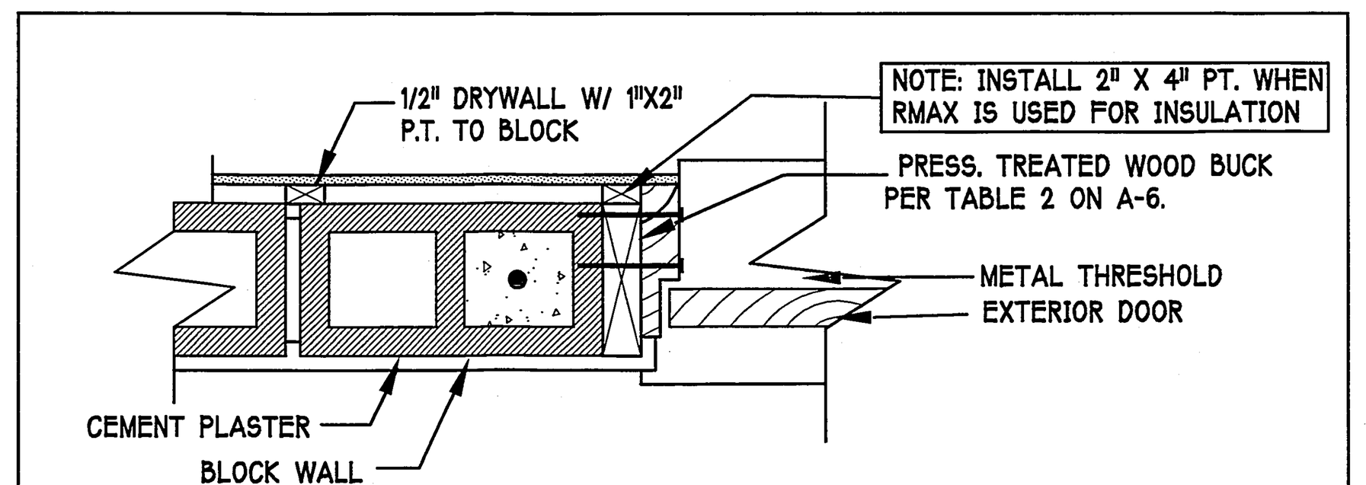
FLOOR SHEATHING AT 2ND FLOOR

A.P.A. RATED STURDI-FLOOR, EXPOSURE 1, TONGUE & GROOVE EDGES SPAN RATING 48/24 OR BETTER, GLUE AND NAIL W/ 10d COMMON @ 6" O.C. EDGE AND FIELD.

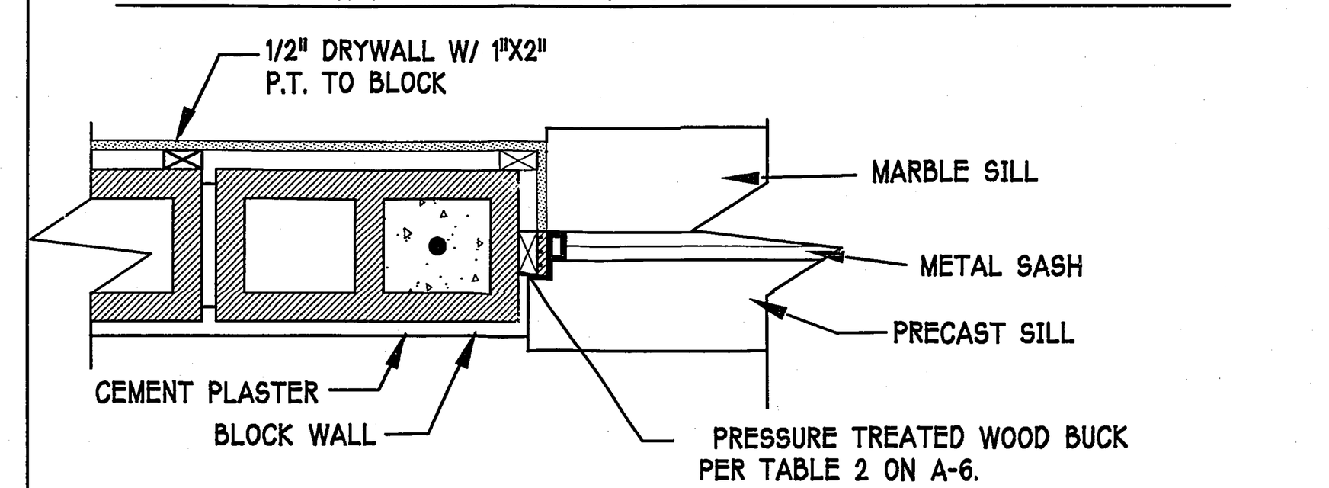
8

EXTERIOR WALL SHEATHING

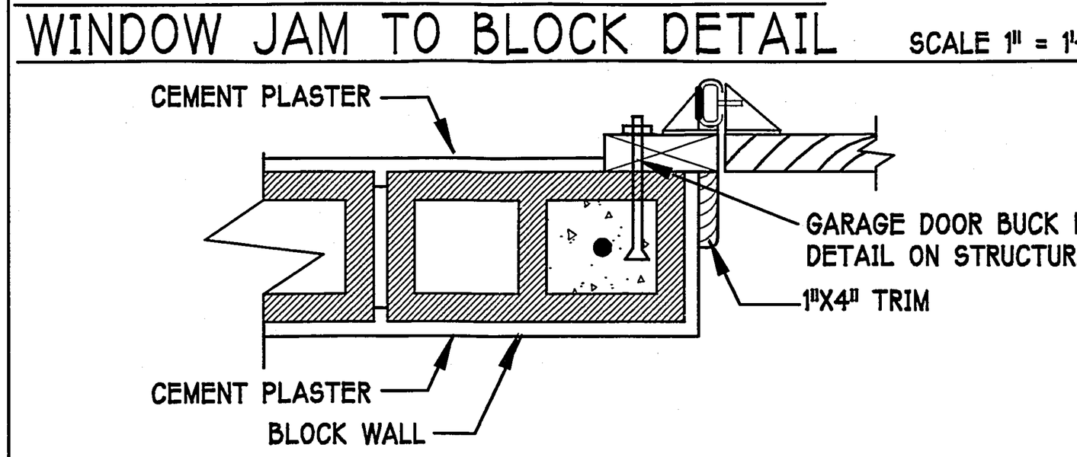
SHALL BE 7/16" THICK 'ZIP SYSTEM WALL SHEATHING' MANUFACTURED BY HUBER ENGINEERED WOODS LLC. INSTALL PANELS WITH A 1/8" GAP BETWEEN EDGES AND FASTEN WITH 8d COMMON NAILS @ 6" O.C. EDGE AND FIELD. IF PANELS ARE INSTALLED HORIZONTALLY, BLOCKING SHALL BE INSTALLED BEHIND PANEL JOINTS. ALL SEAMS IN THE SHEATHING SHALL BE SEALED WITH THE ZIP SYSTEM SELF ADHERING SEAM TAPE USING THE ZIP SYSTEM APPLICATOR GUN. THE USUAL TYVEK HOUSE WRAP IS NOT REQUIRED.



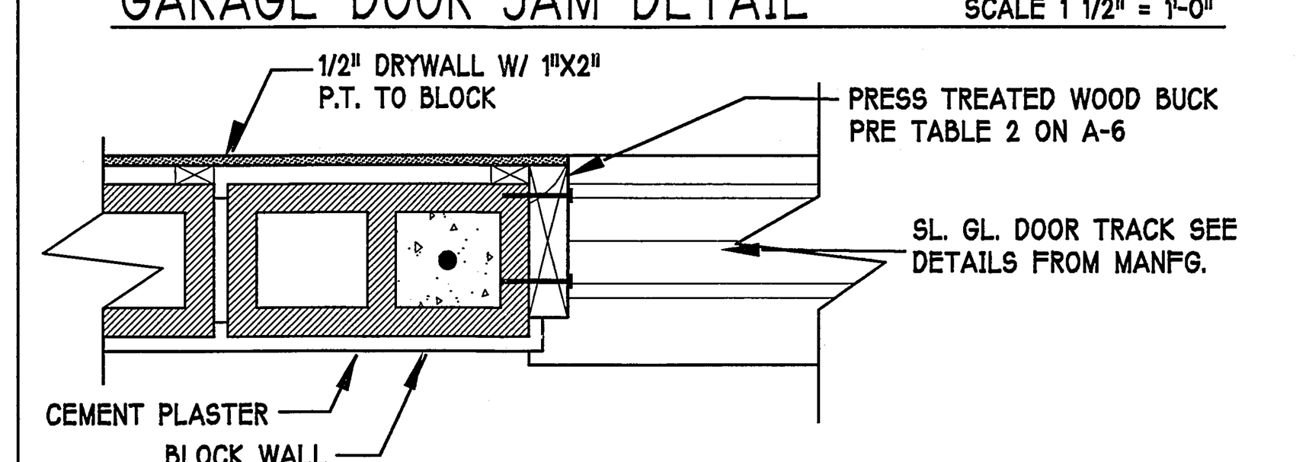
DOOR JAM TO BLOCK DETAIL SCALE 1" = 1'-0"



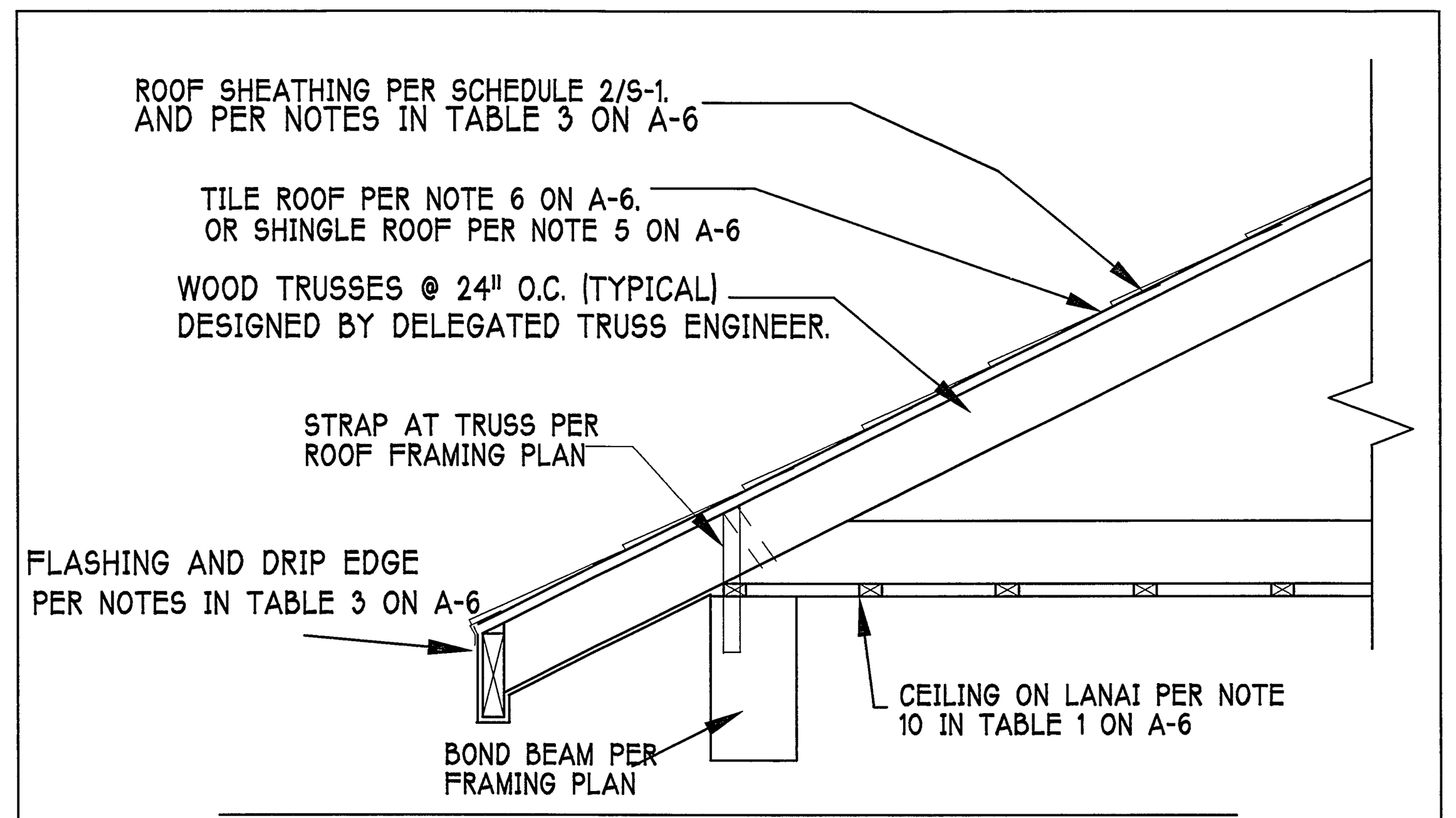
WINDOW JAM TO BLOCK DETAIL SCALE 1" = 1'-0"



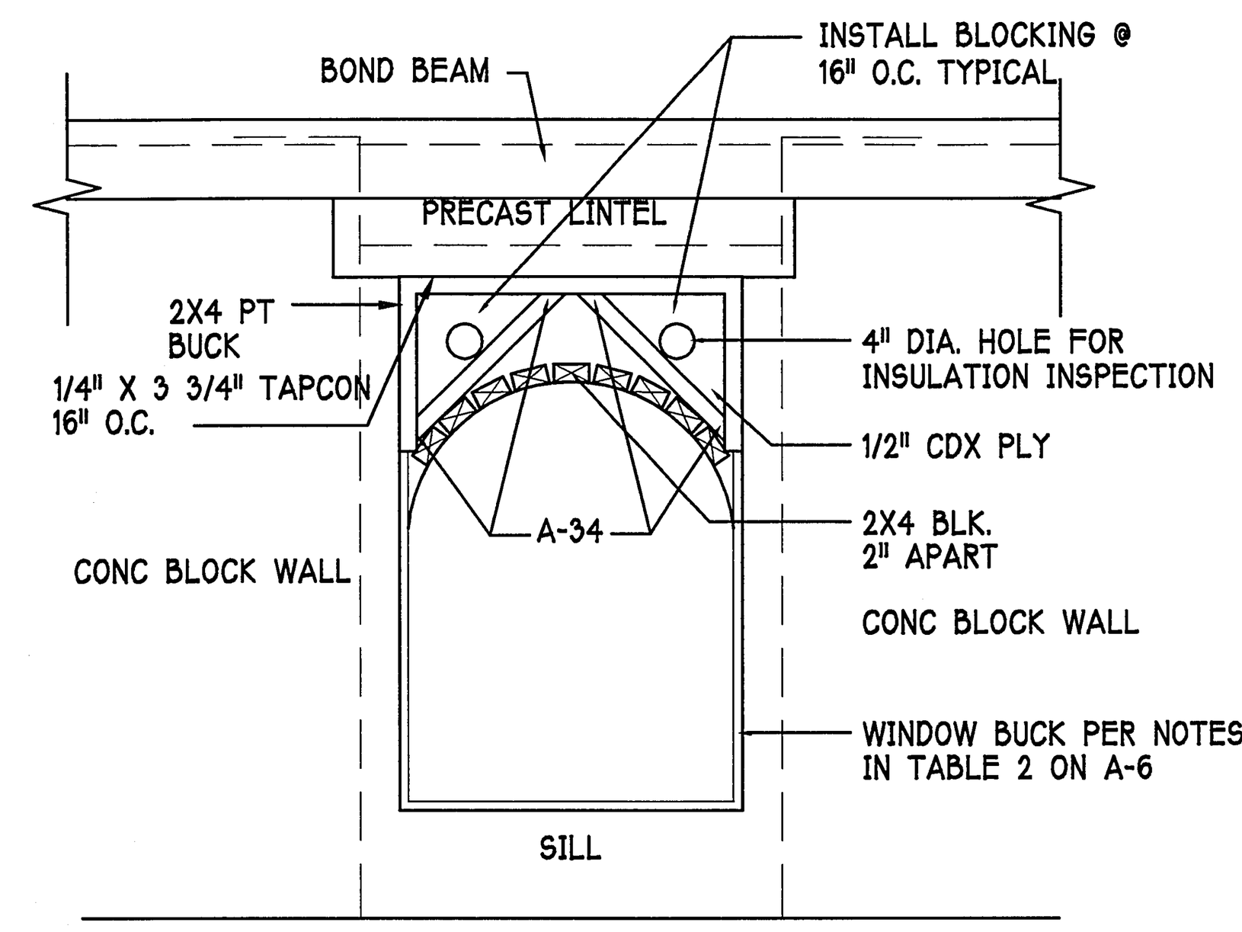
GARAGE DOOR JAM DETAIL SCALE 1 1/2" = 1'-0"



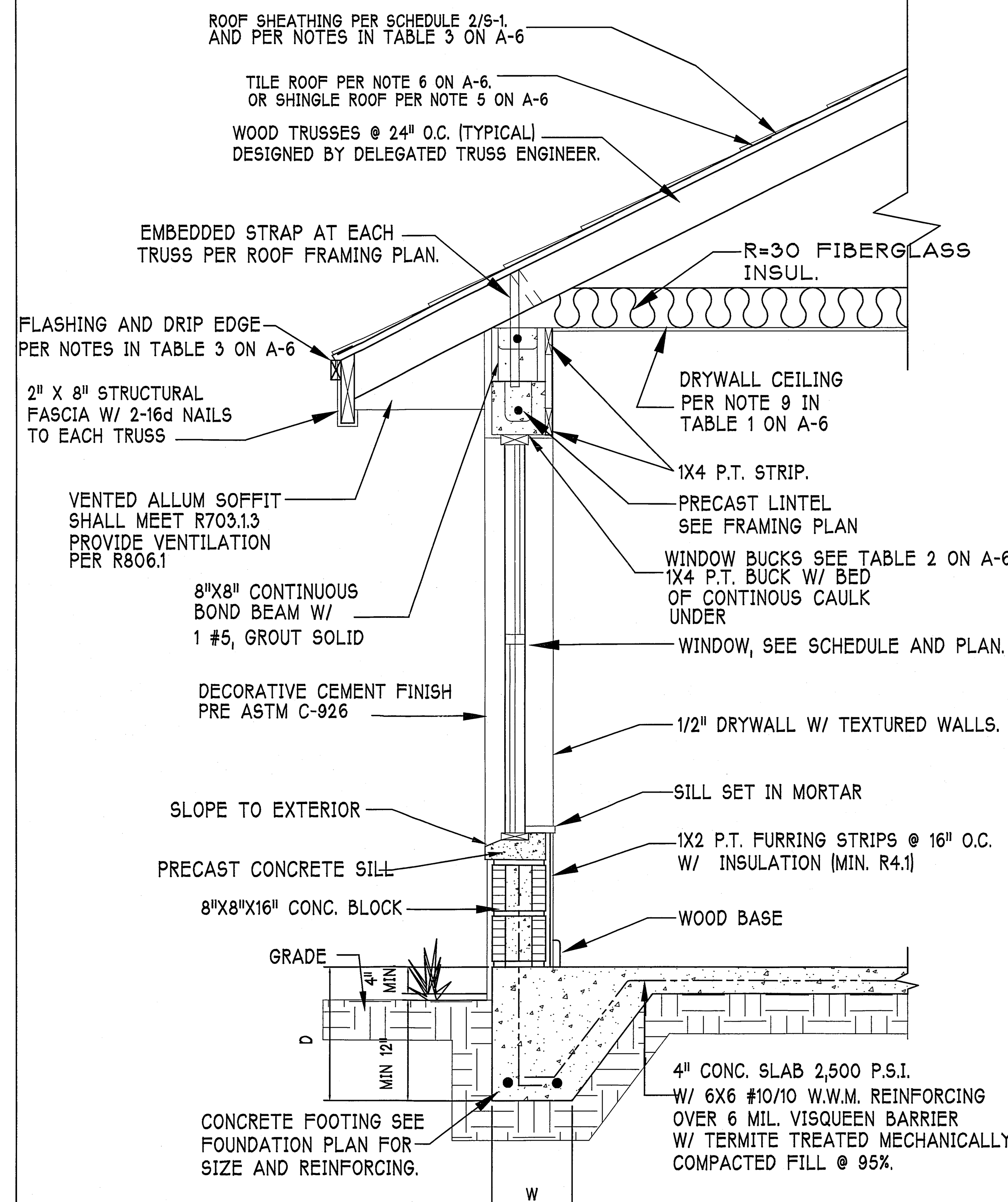
SL. GL. DR. JAM TO BLOCK DETAIL SCALE 1" = 1'-0"



LANAI/ENTRY ROOF ASSEMBLY



WINDOW OR DOOR ARCH SPACE FRAMING ABOVE NO SCALE



TYPICAL WALL SECTION

SCALE: 3/4"= 1'-0"

2

DESIGN IN ACCORDANCE WITH BUILDING CODE 2010

D·R·HORTON America's Builder DHI NYSE

Gulf Coast Drafting & Design
Phone (239) 540-1822
Fax (239) 540-7759

This signature and seal is for work performed by the Structural Engineer of Record (SER) related to Structural Engineering only. No work was performed by the SER in other disciplines such as architectural, mechanical, plumbing, electrical, fire, life safety, accessibility, energy, site work, civil, or geotechnical.

DEREK DERGENER P.E.
AUG 0 6 2012
FL PE #58552

STRUCTURAL ENGINEERING
STRUCTURAL SYSTEMS OF NORTH FLORIDA
1634 S.E. 47th ST SUITE #3
CAPE CORAL, FL 33904
(239) 549-4554
CA# 8829

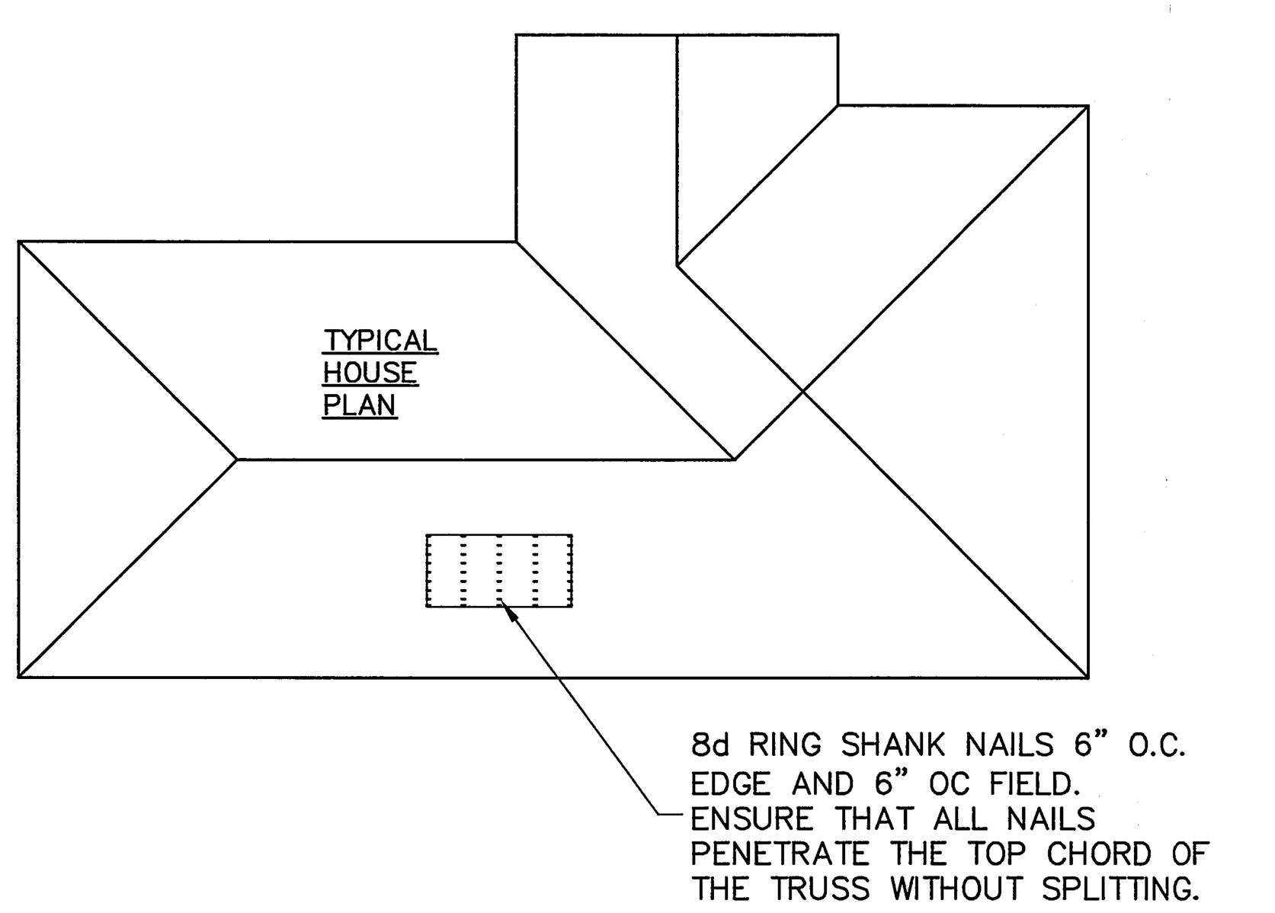
LOT: 4 BLOCK :
SUBDIV: BUCKS RUN
ADDRESS: 7875 BUCKS RUN DR.
G.C.D. JOB # : DR-2744

MODEL: UNIT 2006
RESIDENCE FOR: SPEC

DATE:	8-6-12
DRAWN BY:	D.B.
CHECKED BY:	JWC
REVISED:	
PLAN:	SECTION
SCALE:	AS NOTED
SHEET#	A-6

1 ROOF DECK NAILING PATTERN

SCALE: NTS



2 SHEATHING SCHEDULE

EXTERIOR STUD WALL	FLOOR
7/16" ZIP SYSTEM WALL SHEATHING BY HUBER ENGINEERED WOODS LLC, NAILED W/ 8d COMMON WIRE @ 6" O.C. EDGE AND 6" O.C. FIELD. PROVIDE 2x4 BLOCKING AT ALL JOINTS. INSTALL SHEATHING AND SEAM TAPE IN STRICT ACCORDANCE WITH MFR. WRITTEN INSTRUCTIONS.	N/A
ROOF	**LANAI / ENTRY CEILING / SOFFIT**
A.P.A. RATED SHEATHING, EXPOSURE 1, SPAN RATING 24/16 OR BETTER (HIGHER NUMBERS INDICATE BETTER SPAN RATING). THE USUAL CHOICE IS 15/32" CDX PLYWOOD OR 7/16" OSB, WITH THE REQUIRED APA GRADE MARKING. FASTEN WITH 8d RING SHANK NAILS @ 6" O.C. EDGE AND 6" O.C. FIELD. (RING SHANK NAILS PER R803.2.3.1: 0.113" NOMINAL SHANK DIAMETER, RING DIA. OF 0.012" OVER SHANK DIAMETER, 16 TO 20 RINGS PER INCH, 0.280" DIAMETER FULL ROUND HEAD, 2" NAIL LENGTH)	OPTIONS: 1) 1x4 STRIPPING @ 16"OC w/ 2-8d NAILS TO EACH TRUSS, 5/8" EXTERIOR GYPBOARD CEILING, FASTEN w/8d NAILS OR 1 5/8" DRYWALL SCREWS @ 6"OC EDGE & FIELD. 2) 3/8" BC PLYWOOD NAILED w/ 6d COMMON @ 6" OC EDGE & FIELD. 3) WIRE LATHE AND 1/2" STUCCO. FASTEN WIRE LATHE WITH GALVANIZED STAPLES BY SENCO OR EQUIV., 1" CROWN, 1" LONG, SPACED 4" OC.

NOTE: EXTERIOR CEILINGS AND SOFFITS SPECIFIED HERE MEET THE DESIGN WIND PRESSURES PER R703.1.3.

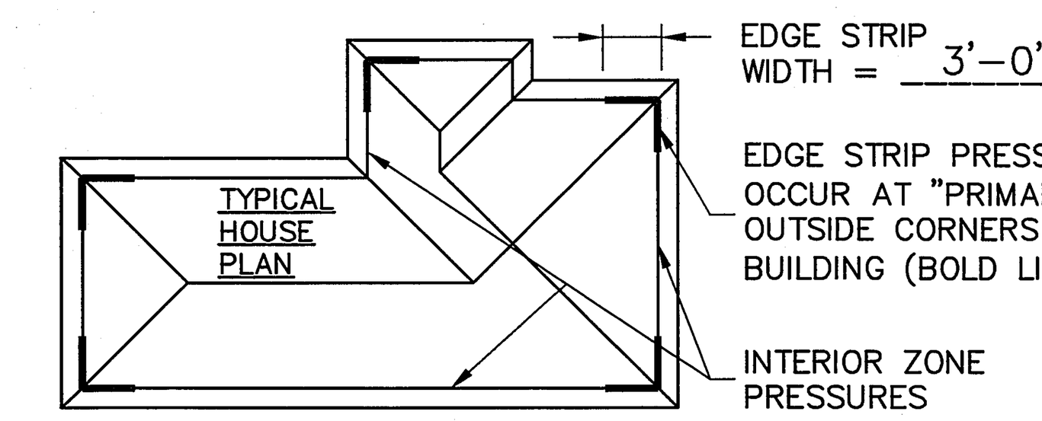
3 WINDOW & DOOR DESIGN WIND PRESSURES

WIND PRESSURES PER ASCE7-10, 160 MPH, EXPOSURE B, AND CONVERTED TO ALLOWABLE STRESS DESIGN PRESSURES USING 0.6W LOAD FACTOR. (Vasd=124 MPH, RISK CAT II, ENCLOSED, kd=0.85, h<30')

TYPE	INTERIOR ZONE 4	EDGE STRIP 5
TYPICAL WINDOWS & DOORS	+27.7 −30.0	+27.7 −37.0
8' OR 9' GARAGE DOORS	+24.3 −27.5	
16' OR 18' GARAGE DOORS	+23.3 −26.0	

(SEE PLAN FOR OTHER SPECIFIC PRESSURES)

1) TABLE MAY BE USED FOR ANY SIZE WINDOW OR DOOR IN EACH TYPE.
2) USE "INTERIOR ZONE" PRESSURES UNLESS WINDOW OR DOOR IS LOCATED WITHIN THE "EDGE STRIP" (SEE DIAGRAM BELOW), THEN USE THE HIGHER PRESSURES UNDER THE "EDGE STRIP" COLUMN.
3) ALL GLASS / GLAZING SHALL BE IMPACT RATED OR USE IMPACT RATED SHUTTERS.
4) PRODUCT APPROVALS MUST BE ON FILE WITH THE BUILDING DEPARTMENT.



DESIGN CRITERIA:

DESIGN IN ACCORDANCE WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE 2010 – RESIDENTIAL.

1. FLOOR & ROOF UNIFORM LOADS:
   ELEVATED FLOORS: LIVE LOAD 40 PSF, DEAD LOAD 20 PSF
   ROOF: LIVE TOP CHORD 20 PSF
   LIVE BOTTOM CHORD 10 PSF (NON-CONCURRENT w/ TCLL)
   CEMENT ROOF TILE DEAD LOAD 25 PSF TOTAL
   SHINGLE/METAL ROOFING DEAD LOAD 15 PSF TOTAL
   MINIMUM DEAD LOAD FOR WIND: TC 5 PSF, BC 5 PSF
   DEFLECTION CRITERIA:
   FLOOR L/480 LIVE, L/360 TOTAL
   ROOF L/240 LIVE, L/180 TOTAL

2. WIND LOADS:
   WIND DESIGN PER ASCE7-10

BASIC WIND SPEED (ASCE7-10)	160 MPH
NOMINAL WIND SPEED (Vasd TABLE R301.2.1.3)	124 MPH
BUILDING CATEGORY	II
IMPORTANCE FACTOR	1.00
EXPOSURE	B
MEAN ROOF HEIGHT	< 30 FT
ROOF PITCH	5/12
ENCLOSURE CLASS.	ENCLOSED
INTERNAL PRES. COEFF.	+/− 0.18

   WINDOW/DOOR DESIGN WIND PRESSURE, SEE TABLE IN DETAIL 3.
   SOFFITS – PER R703.1.3, ALL SOFFITS SHALL BE CAPABLE OF RESISTING THE DESIGN PRESSURES SPECIFIED IN TABLE R301.2(2) FOR WALLS. PER R616.4, SOFFIT TESTING SHALL USE ASCE7 DESIGN PRESSURES USING 0.6W LOAD FACTOR.

3. REINFORCED CONCRETE:
   DESIGN AS PER ACI 318-08
   REQUIRED COMPRESSIVE STRENGTH AT 28 DAYS:
   SLAB ON GRADE f'c = 2500 PSI
   3 1/2" MINIMUM THICKNESS REINFORCED WITH 6x6 w1.4xw1.4 WWF OR FIBERMESH.
   CONVENTIONAL SHALLOW FOOTINGS f'c = 2500 PSI
   BEAMS AND COLUMNS f'c = 3000 PSI
   ALL OTHER CONCRETE (U.N.O.) f'c = 3000 PSI
   UNLESS OTHERWISE SHOWN ON DRAWINGS, MINIMUM CONCRETE COVER FOR REINFORCING SHALL BE AS FOLLOWS:
   FOOTINGS 3"
   SLAB ON GRADE CENTERED
   BEAMS 1 1/2"
   COLUMNS 1 1/2"
   ALL REINFORCING STEEL SHALL BE PLACED IN ACCORDANCE WITH THE TYPICAL BENDING DIAGRAMS AND PLACING DETAILS OF ACI STANDARDS AND SPECIFICATIONS. ALL REINFORCING STEEL SHALL BE HELD SECURELY IN POSITION WITH STANDARD ACCESSORIES DURING PLACING OF CONCRETE.
   REINFORCING STEEL – ASTM A615 GRADE 40 FOR #3
   GRADE 60 FOR #4 TO #11

   WELDED WIRE FABRIC – ASTM A185

   SPLICES IN REINFORCING, SHALL BE 40 BAR DIAMETERS. NON-CONTACT LAP SPLICES MAY BE USED PROVIDED REINFORCING IS NOT SPACED MORE THAN 5" APART FOR #5 BARS.

   FORMWORK AND SHORING SHALL REMAIN IN PLACE UNTIL CONCRETE HAS REACHED AT LEAST 2/3 OF THE REQUIRED 28 DAY STRENGTH.

4. REINFORCED MASONRY:
   DESIGN PER ACI 530-08
   REQUIRED COMPRESSIVE STRENGTHS:
   MASONRY WALLS f'm = 1500 PSI

   REINFORCING STEEL – ASTM A615 GRADE 60.
   SPLICES IN REINFORCING, SHALL BE 48 BAR DIAMETERS.
   ALL CONCRETE MASONRY UNITS SHALL BE COMPOSED OF ASTM C90, GRADE N-1 HOLLOW CONCRETE MASONRY UNITS WITH TYPE 'S' MORTAR. GROUT ALL CELLS CONTAINING VERTICAL REINFORCEMENT WITH 3000 PSI PEA ROCK CONCRETE GROUT. ALL CELLS BELOW FINISHED GRADE SHALL BE GROUTED SOLID. ALL EXTERIOR WALLS SHALL BE REINFORCED FULL HEIGHT AT DOT LOCATIONS ON PLAN. W PROVIDE HORIZONTAL JOINT REINFORCEMENT IN WALLS AT 16" OC VERTICALLY, UNLESS NOTED OTHERWISE. IN ADDITION, INSTALL JOINT REINFORCING IN THE FIRST TWO MORTAR JOINTS ABOVE AND BELOW OPENINGS, EXTENDING AT LEAST 24" BEYOND THE OPENING. LAP JOINT REINFORCING 6" MINIMUM.

5. DELEGATED-ENGINEERED WOOD ROOF & FLOOR TRUSSES:
   ALL WOOD ROOF AND FLOOR TRUSSES SHALL BE DESIGNED BY A DELEGATED TRUSS ENGINEER PER RULE 61G15-31.003 OF THE FLORIDA ADMINISTRATIVE CODE. ALL TRUSSES SHALL HAVE TEMPORARY BRACING PER "COMMENTARY AND RECOMMENDATIONS FOR HANDLING, INSTALLING AND BRACING METAL PLATE CONNECTED WOOD TRUSSES, HIB-91." FOR OTHER BRACING REQUIREMENTS, NOTIFY ENGINEER. PROVIDE PERMANENT BRACING PER TRUSS MFR. SHOP DRAWINGS. IF PERMANENT BRACING IS NOT SPECIFIED, CONTACT ENGINEER.

6. FOUNDATION:
   CONVENTIONAL SHALLOW CONCRETE FOOTINGS
   SOIL BEARING CAPACITY 2000 PSF
   THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE SUITABILITY OF THE SOIL CONDITIONS FOR THE INTENDED STRUCTURE AND ASSUMED SOIL BEARING CAPACITY.
   IT IS RECOMMENDED THAT A GEOTECHNICAL FIRM BE HIRED TO PERFORM A SITE EVALUATION.

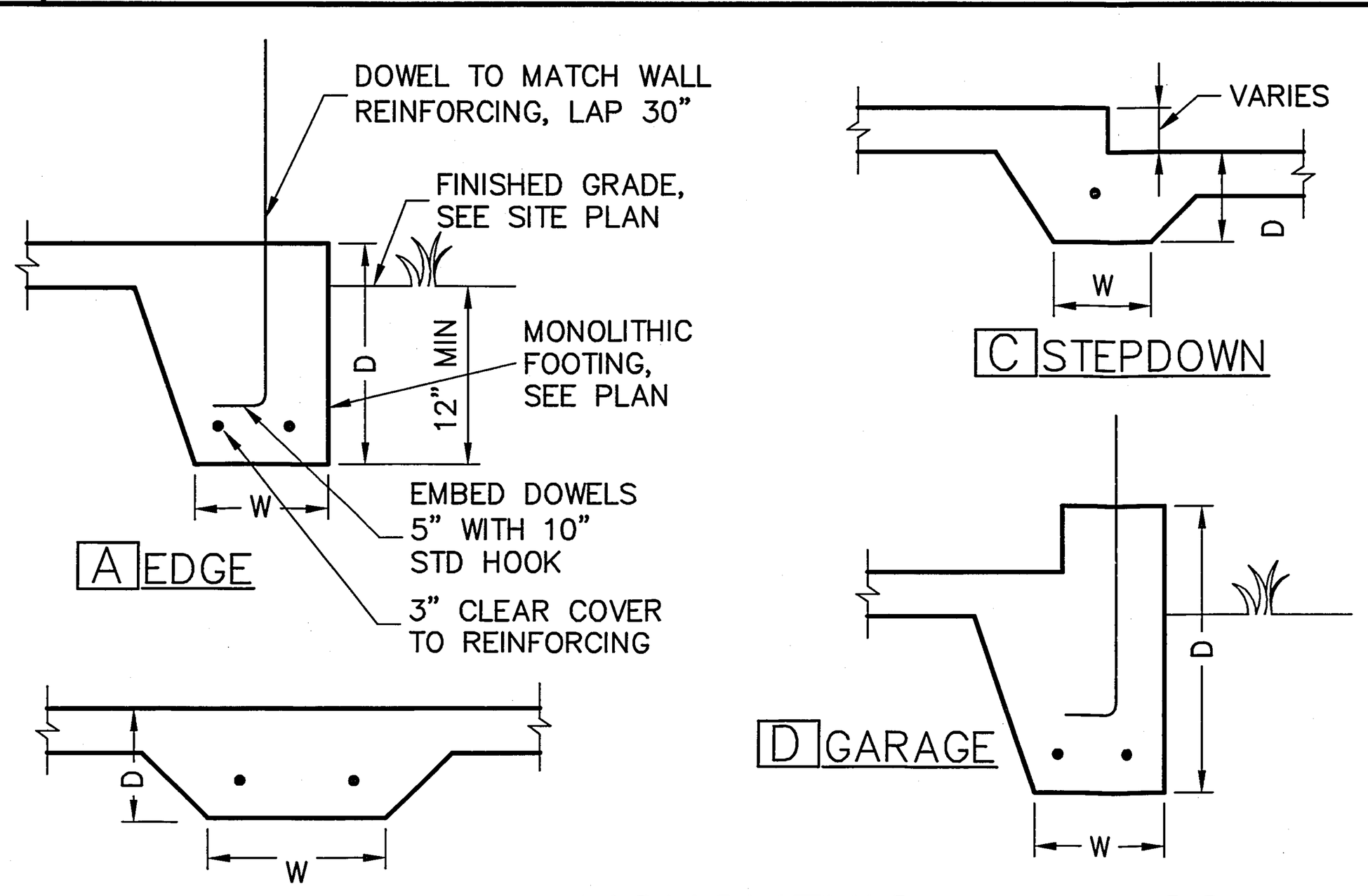
7. DIMENSIONS: VERIFY ALL DIMENSIONS WITH HOUSE PLANS. SEE HOUSE PLANS, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR EMBEDS, OPENINGS, SLEEVES, ETC. WHICH ARE NOT SHOWN ON STRUCTURAL DRAWINGS.

8. MEANS AND METHODS: THE STRUCTURAL ENGINEER SHALL NOT HAVE CONTROL OR BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, PROCEDURES, OR SEQUENCES TEMPORARY BRACING, SHORING, GUYING OR OTHER MEANS TO SUPPORT STRUCTURAL ELEMENTS IN PLACE DURING CONSTRUCTION. FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, OR ANY OTHER PERSONS PERFORMING THE WORK OR FOR THE FAILURE OF ANY OF THEM TO CONSTRUCT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

9. SHOP DRAWINGS: SHOP DRAWINGS SHALL BE PREPARED AND SUBMITTED TO THE ENGINEER FOR REVIEW FOR ALL STRUCTURAL ELEMENTS UTILIZING PREFABRICATED COMPONENTS. ONE SET OF SIGNED & SEALED TRUSS ENGINEERING SHALL BE DELIVERED TO THE ENGINEER OF RECORD FOR THE STRUCTURE PER FLORIDA ADMINISTRATIVE CODE 61G15-30.005 AND 61G15-31.003.

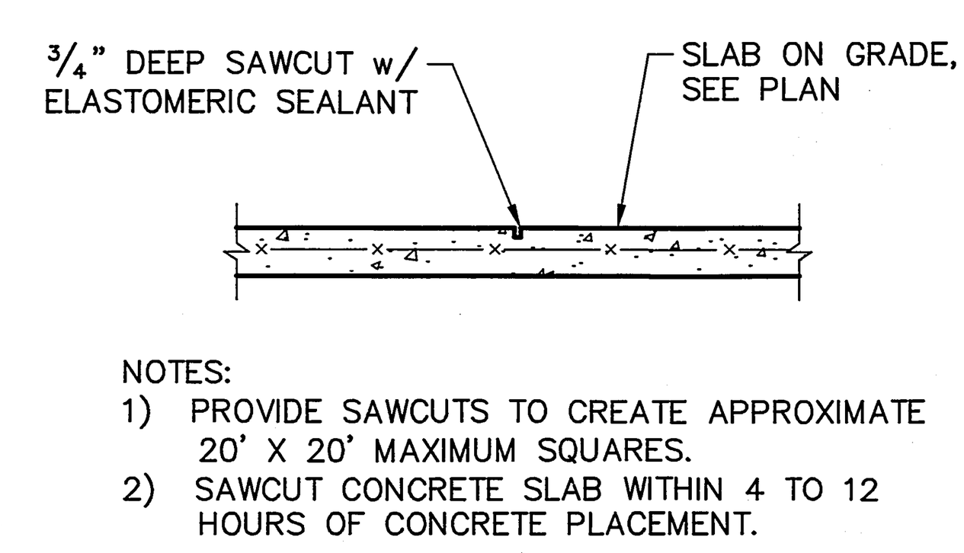
4 MONOLITHIC FOOTINGS

SCALE: 3/4" = 1'-0"



5 SLAB SAWCUT DETAIL

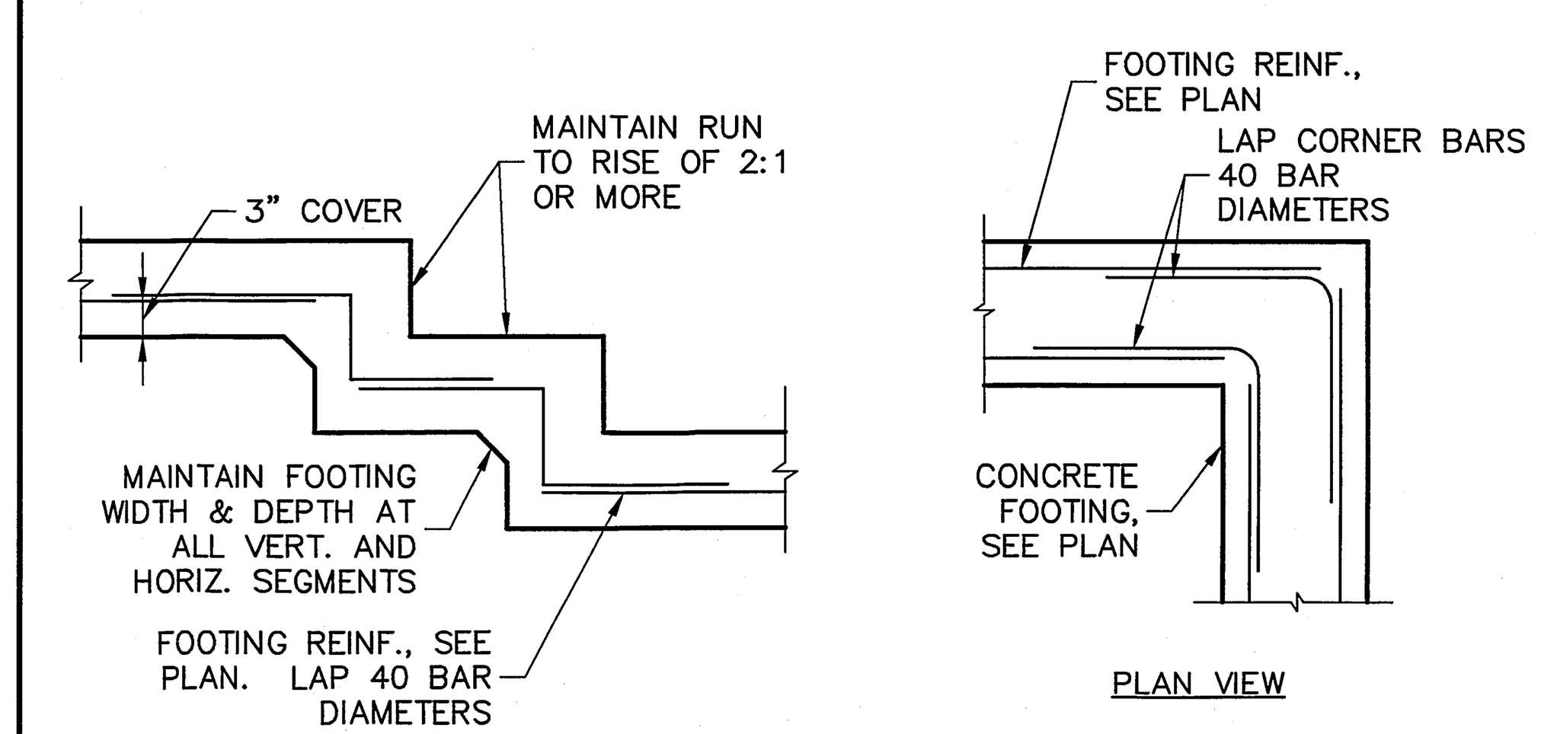
SCALE: NTS



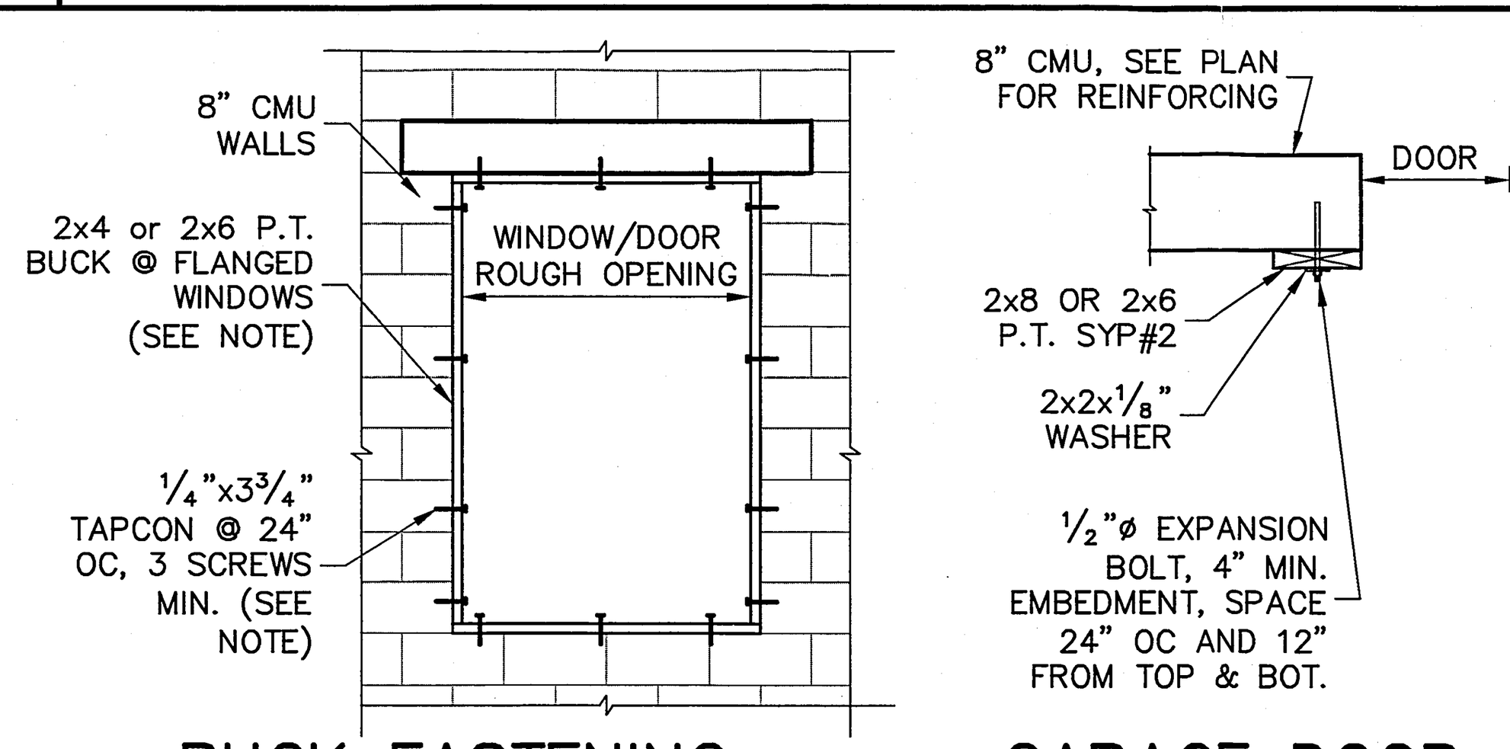
NOTES:
1) PROVIDE SAWCUTS TO CREATE APPROXIMATE 20' X 20' MAXIMUM SQUARES.
2) SAWCUT CONCRETE SLAB WITHIN 4 TO 12 HOURS OF CONCRETE PLACEMENT.

6 STEP FOOTING / FOOTING CORNER BARS

SCALE: NTS



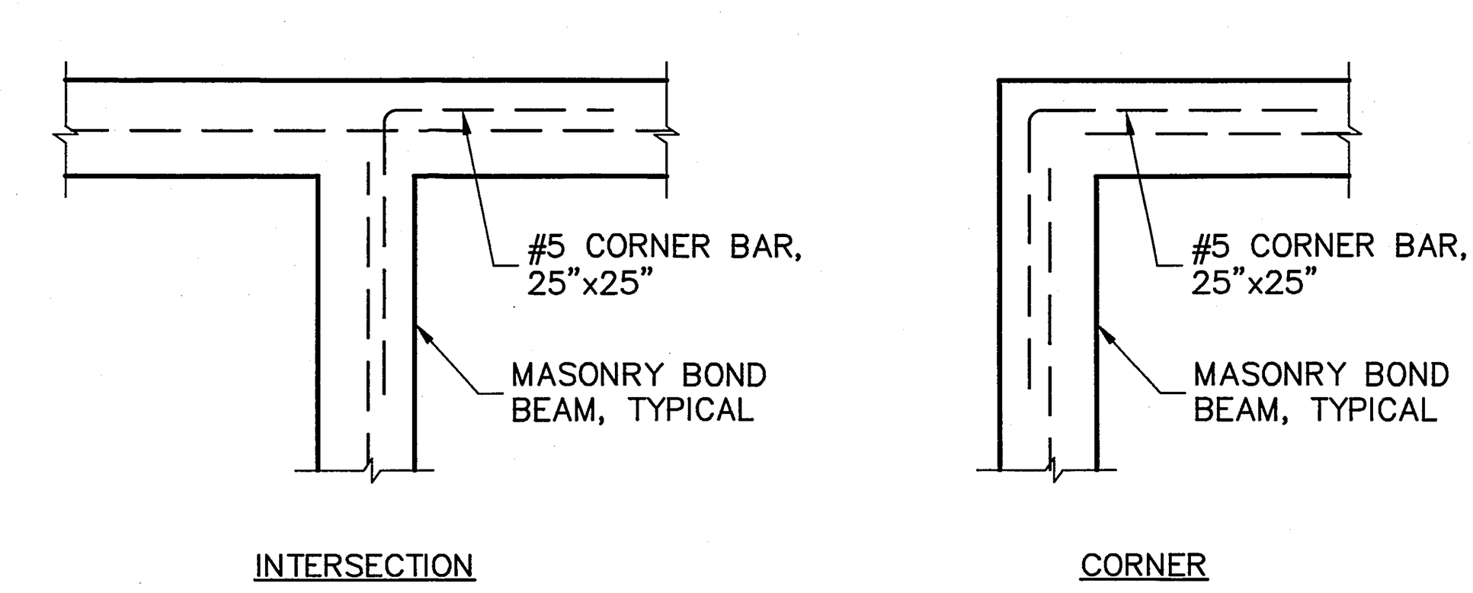
7 BUCK FASTENING / GARAGE DOOR



NOTE: THIS BUCK FASTENING DETAIL IS INTENDED FOR FLANGED WINDOW/DOOR PRODUCTS THAT FASTEN THRU THE FLANGE WITH WOOD SCREWS TO THE BUCK. FOR WINDOW/DOOR PRODUCTS THAT DO NOT HAVE A FLANGE AND FASTEN INSTEAD OUTWARD THRU THE FRAME, USE MASONRY SCREWS PER MFR. THAT ARE LONG ENOUGH TO PENETRATE 2-1/4" INTO THE MASONRY. IN THIS CASE, THE BUCK MATERIAL IS SIMPLY A SPACER AND MAY BE 1x4 OR 1x6 OR OMITTED ENTIRELY AND THE SPACER MAY BE TACKED IN PLACE WITH MASONRY NAILS OR PINS.

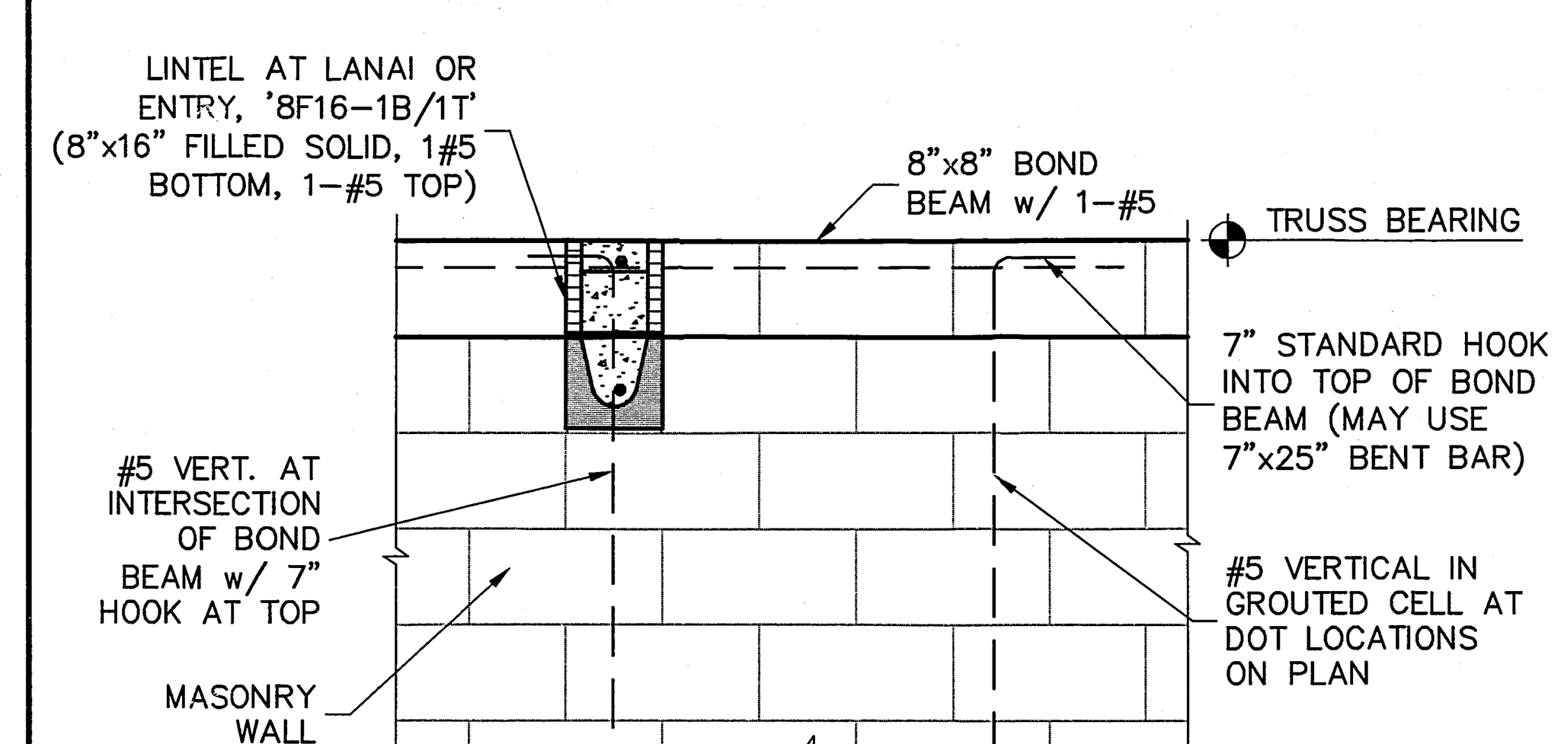
8 CORNER BAR DETAIL IN BOND BEAMS

SCALE: 3/4" = 1'-0"



9 BOND BEAM REINFORCING DETAIL

SCALE: 3/4" = 1'-0"



10 RETROFIT UPLIFT CONNECTOR SCHEDULE

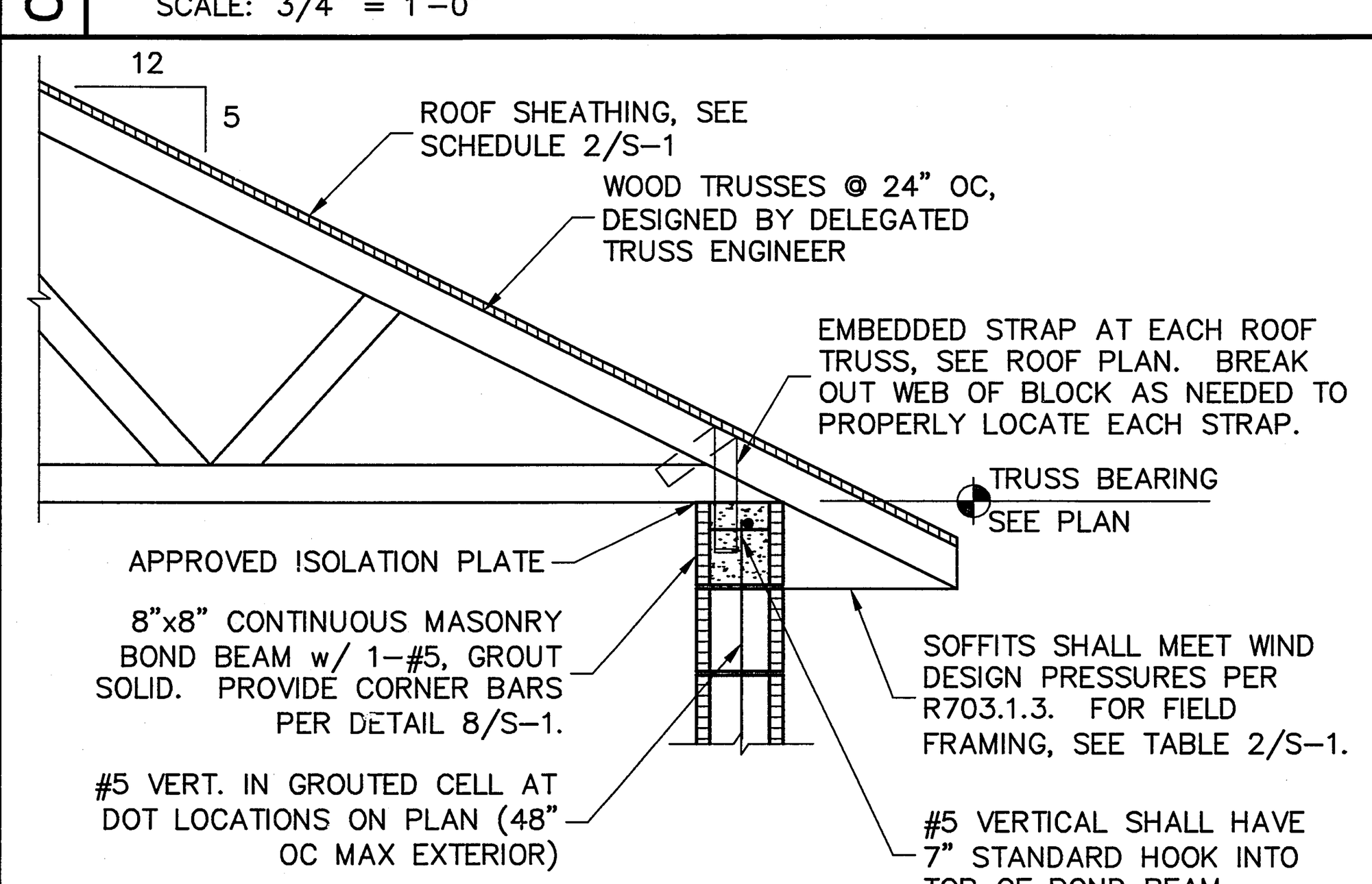
RETROFIT STRAPS TO CONCRETE/MASONRY

TRUSS UPLIFT (LBS) @ 24" OC	CONNECTOR	
TO 840	1-MTSM16 or 20	7-10dx1 1/2", 4-1/4x2 1/4 TITEN
TO 1045	1-HTSM16 or 20	8-10dx1 1/2", 4-1/4x2 1/4 TITEN
TO 2090	2-HTSM16 or 20	8-10dx1 1/2", 4-1/4x2 1/4 TITEN
TO 4300	2-LGT2	16-16d, 7-1/4"x2 1/4" TITEN
TO 3480	HTT16	18-16d, 5/8"ø ALLTHREAD, DRILL & EPOXY 10" EMBED w/ SIMPSON SET.
TO 10530	HGT-2/3	TWO 3/4"ø ALTHREAD, DRILL & EPOXY 12" EMBED WITH SIMPSON SET.

NOTES:
1) WHERE EMBEDDED STRAP IS MISSING OR MIS-LOCATED, PROVIDE A STRAP FROM THE ABOVE LIST AT EACH ROOF TRUSS BEARING POINT, BASED ON THE TRUSS UPLIFT VALUES IN THE SIGNED AND SEALED TRUSS DESIGN PACKAGE.
2) CONNECTORS ARE SIMPSON STRONG TIE. ALL CONNECTORS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH SIMPSON PRINTED INSTRUCTIONS.

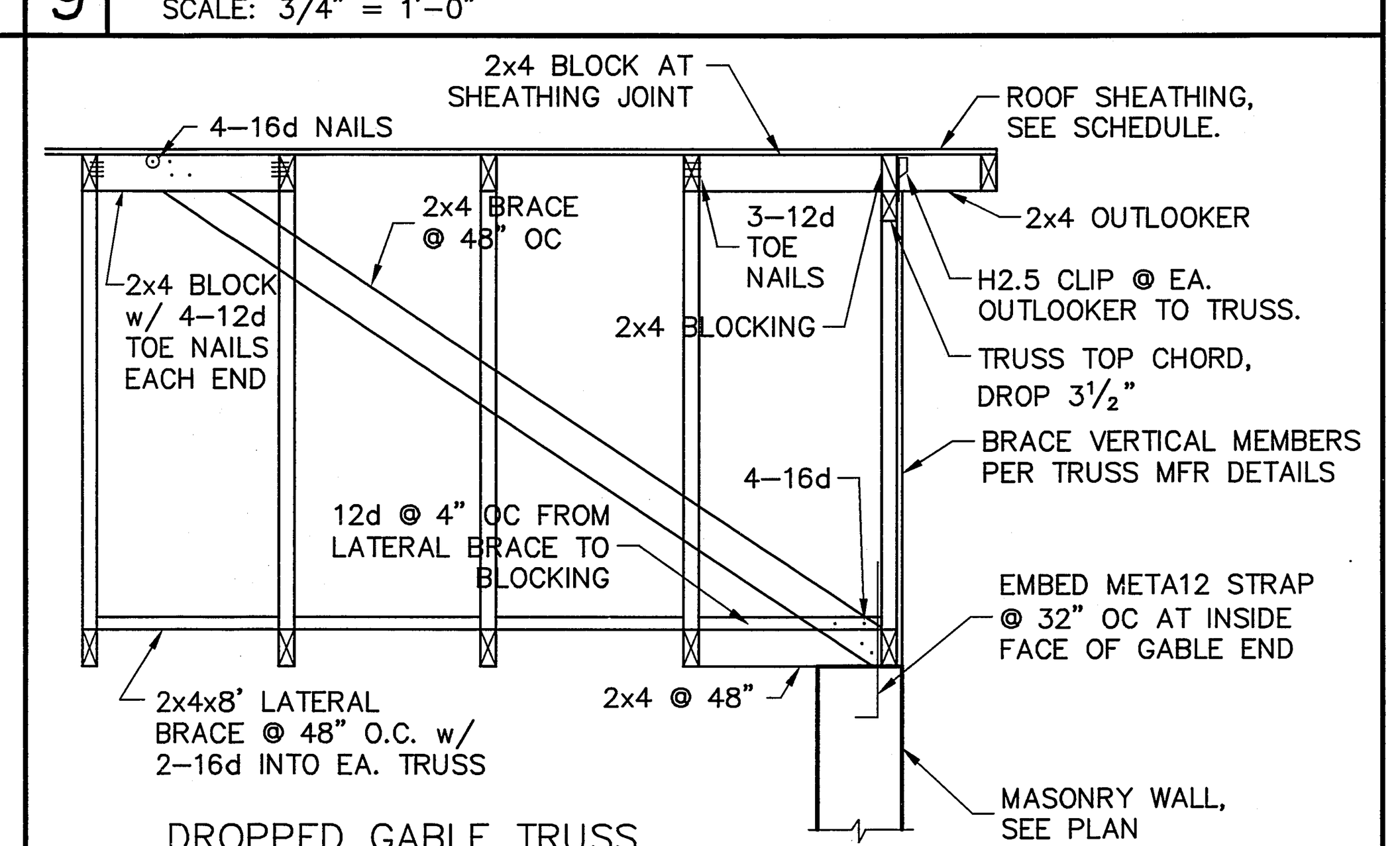
11 TRUSS STRAP TO BOND BEAM

SCALE: 3/4" = 1'-0"



12 GABLE END BRACING

SCALE: N.T.S.



DROPPED GABLE TRUSS

THIS DETAIL NOT USED ON ELEVATION A

FOR SOUTHERN TRUSS

REVISIONS	BY

STRUCTURAL ENGINEERING: STRUCTURAL SYSTEMS OF NORTH FLORIDA
1634 S.E. 47th STREET, SUITE #3 CAPE CORAL, FL 33904 (239) 549-4554 CA# 8829

AUG 0 8 2012

D·R·HORTON America's Builder

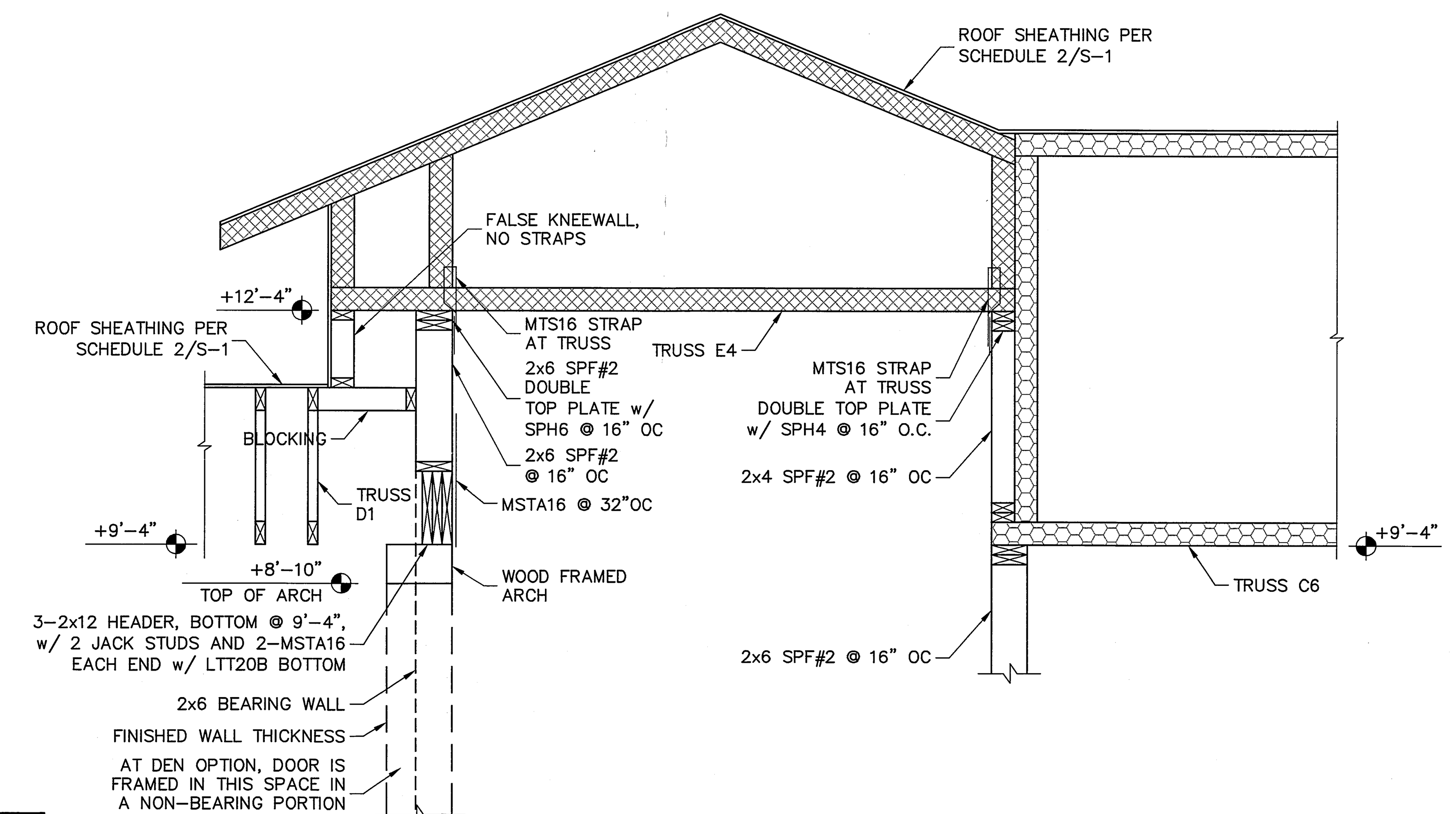
DESIGN PER FLORIDA BUILDING CODE 2010

STRUCTURAL DETAILS FOR MODEL 2006 A

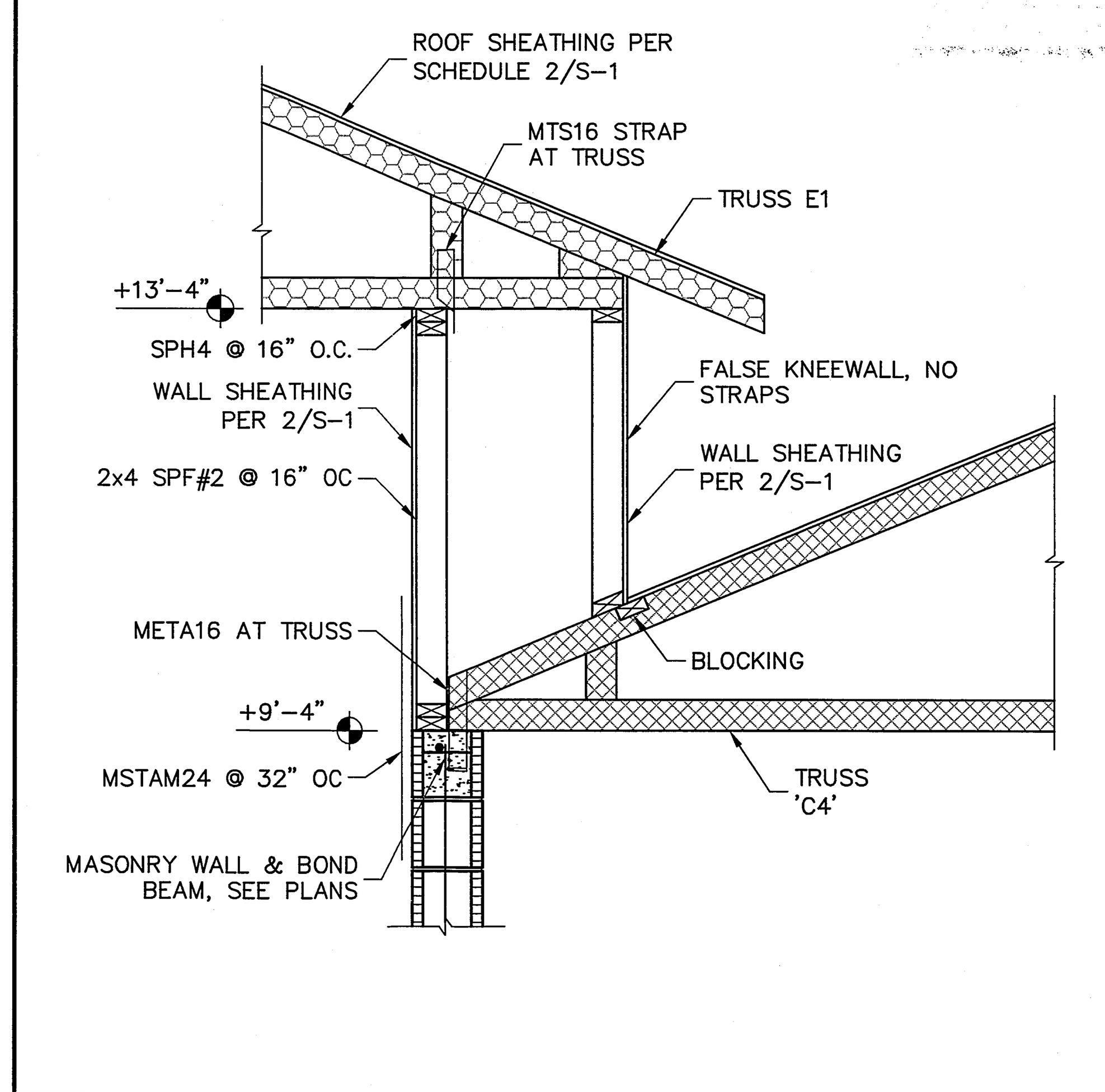
7875 BUCK'S RUN DRIVE
NAPLES, FLORIDA
LOT: 4 SUBDIVISION: BUCK'S RUN

DESIGN/DRAWN	DWB/DWB
CHECKED	DWB
DATE	08/06/12
SCALE	AS NOTED
JOB NO.	DR2744
SHEET	S-1

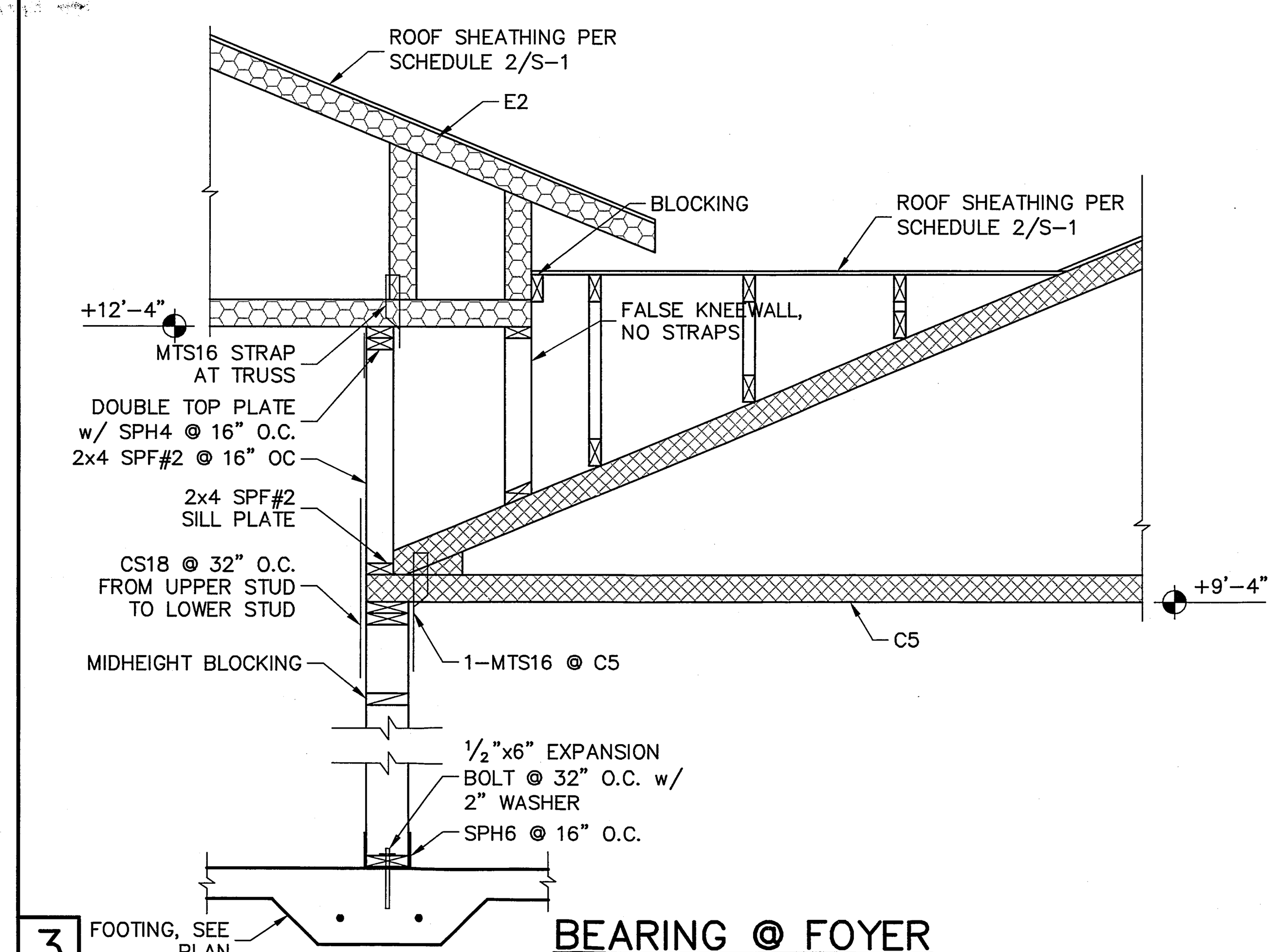
SHEET 1 OF 2



1 SECTION AT FOYER
SCALE: 3/4" = 1'-0"



2 KNEEWALL @ ENTRY
SCALE: 3/4" = 1'-0"



3 BEARING @ FOYER
SCALE: 3/4" = 1'-0"

FOR SOUTHERN TRUSS

REVISIONS	BY

STRUCTURAL ENGINEERING:
STRUCTURAL SYSTEMS OF SOUTHWEST FLORIDA
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CA# 8829

AUG 0 6 2012
FL PE #58332

D·R·HORTON America's Builder

DESIGN PER FLORIDA BUILDING CODE 2010

STRUCTURAL DETAILS FOR MODEL 2006 A

7875 BUCK'S RUN DRIVE
NAPLES, FLORIDA
LOT: 4 SUBDIVISION: BUCK'S RUN

DESIGN/DRAWN: DWB/DWB
CHECKED: DWB
DATE: 08/06/12
SCALE: AS NOTED
JOB NO.: DR2744
SHEET: S-2

SHEET 2 OF 2