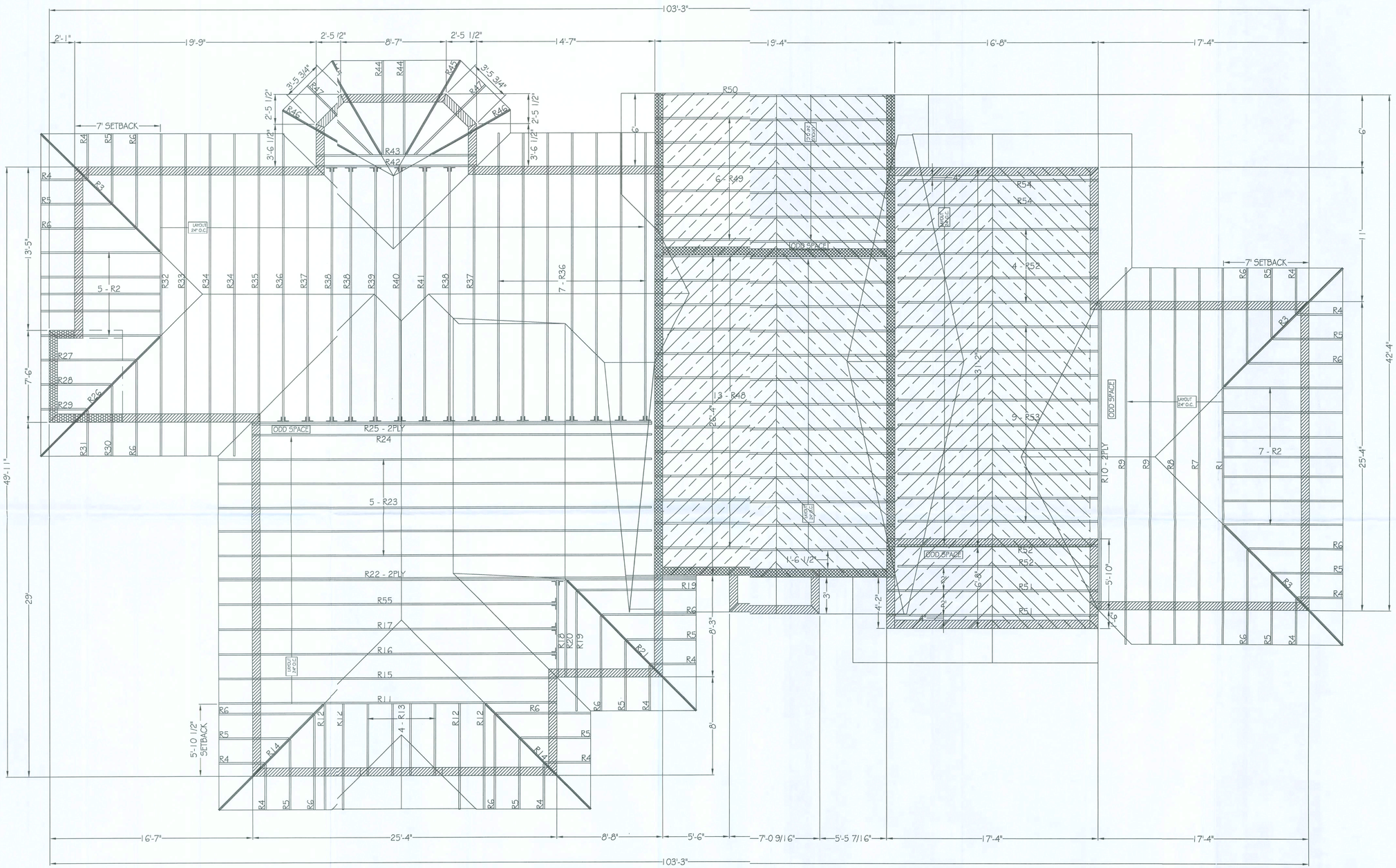
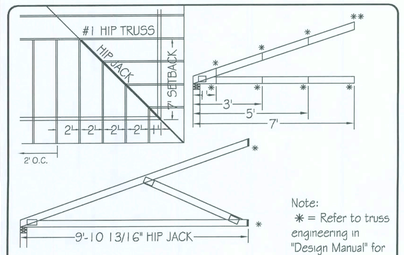




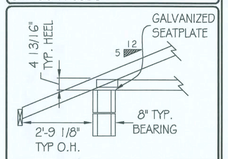
Note:
* = Refer to truss engineering in "Design Manual" for connection.

TYPICAL HIP CORNER DETAIL

LEGEND

- SUPPLIED BEAM
- BEAM BY OTHERS
- VALLEY / FIELD FRAMING
- PLUMBING DROP
- SLOPED CEILING
- RAISED FLAT CEILING
- 10'-0" BEARING HEIGHT
- 12'-0" BEARING HEIGHT
- 9'-1 5/8" BEARING HEIGHT

SYMBOL: JL
QTY: 26
For Nailing: See Simpson Catalog or Call 1-800-999-5099
SIMPSON HU526



TYPICAL EAVE DETAIL

"DISCLAIMER"

PLUMBING / HVAC OPENINGS ARE THE RESPONSIBILITY OF THE CONTRACTOR OR OWNER TO VERIFY ALL LOCATIONS BEFORE BUILDING TRUSSES AND SETTING TRUSSES.

"ATTENTION"

1. LIMITED RESPONSIBILITY OF ROOF TRUSS MANUFACTURER. SEE WTCA 1-1995 SECTION 6.0, FOUND IN DESIGN MANUAL.

2. WARNING FAILURE TO FOLLOW RECOMMENDATIONS IN "BCSI-B1" MAY RESULT IN SERIOUS INJURY, LOSS OF LIFE, OR PROPERTY DAMAGE.

3. CUSTOMER TO VERIFY ALL DIMENSIONS, BEARING HEIGHTS, PITCHES AND ALL INFORMATION REGARDING THE DESIGN AND FABRICATION OF TRUSS SYSTEM.

4. DO NOT OVERLOAD TRUSSES w/ SHEETROCK / SHEATHING OR OTHER BUILDING MATERIALS.

5. TRUSSES ARE NOT MARKED IN ANY WAY TO IDENTIFY THE FREQUENCY, OR LOCATION OF TEMPORARY ERECTION BRACING. ALL TEMPORARY BRACING SHALL COMPLY WITH THE LATEST EDITION OF BCSI-B1 PUBLISHED BY THE TRUSS PLATE INSTITUTE FOUND IN THE DESIGN MANUAL.

6. NON-LOAD BEARING WALLS TO BE SINGLE TOP PLATED, TO PREVENT LOAD TRANSFER TO THESE WALLS. A 1x4 MAY BE USED AS SECOND TOP PLATE.

ROOF TRUSS LAYOUT

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

MAGURA CONSTRUCTION
WADE HORNSBY RESIDENCE

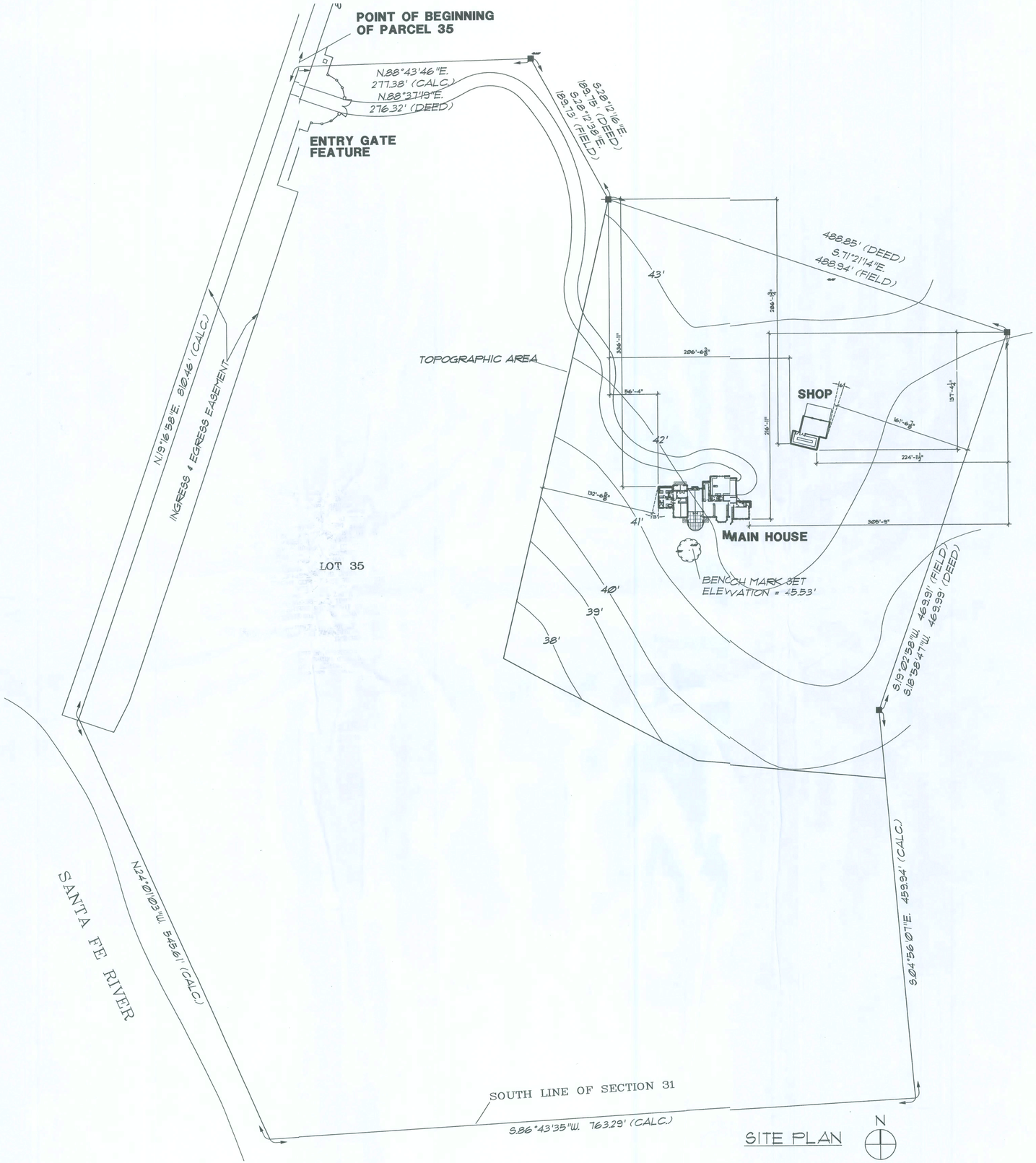
Ridgway Roof Truss Company
P.O. Box 1309 Gainesville, Florida 32602
Telephone (352) 376-4436 FAX (352) 371-3316
E-Mail: Sales@RidgwayTruss.com

REVISION DATE:	REVISION	REV. BY:	CHK. BY:

Salesman: SCOTT DANIELS
Initial Check:
Design: BH | CAD: JC
Job: # 070790 | Date: 1/1/407
File: R:\Jobs\070707079070790CC90707790.dwg

Page 1 of 1

R:\Jobs\Jobs\070707079070790CC90707790.dwg, 12/26/07 2:26:58 PM, ARCH D (24.00 x 36.00 Inches), 0.25=12, ralph



SITE PLAN

DESCRIPTION PARCEL 35
A PART OF THE S 1/2 OF SECTION 31, TOWNSHIP 7 SOUTH, RANGE 17 EAST, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS: COMMENCE AT THE NW CORNER OF THE SW 1/4 OF SAID SECTION 31 AND RUN THENCE S.01°41'19"E., A DISTANCE OF 7.37 FEET; THENCE N.89°22'58"E., A DISTANCE OF 816.00 FEET; THENCE S.01°45'20"E., A DISTANCE OF 436.30 FEET; THENCE N.89°30'00"E., A DISTANCE OF 881.33 FEET; THENCE S.19°16'58"W., A DISTANCE OF 824.64 FEET TO THE POINT OF BEGINNING; THENCE N.88°37'19"E., A DISTANCE OF 276.32 FEET; THENCE S.28°12'16"E., A DISTANCE OF 189.75 FEET; THENCE S.71°21'14"E., 488.85 FEET; THENCE S.18°58'47"W., 469.99 FEET; THENCE S.04°56'07"E., A DISTANCE OF 459.94 FEET TO THE SOUTH LINE OF SAID SECTION 31; THENCE S.86°43'35"W., ALONG SAID SOUTH LINE, A DISTANCE OF 763.29 FEET; THENCE N.24°01'03"W., A DISTANCE OF 545.61 FEET; THENCE N.19°16'58"E., A DISTANCE OF 810.46 FEET TO THE POINT OF BEGINNING. COLUMBIA COUNTY, FLORIDA. PARCEL CONTAINS 22.85 ACRES, MORE OR LESS.

AN EASEMENT FOR INGRESS AND EGRESS, BEING 60 FEET IN WIDTH AND LYING 30 FEET TO THE LEFT AND 30 FEET TO THE RIGHT, AS MEASURED PERPENDICULAR TO THE FOLLOWING DESCRIBED CENTERLINE: COMMENCE AT THE NE CORNER OF THE NW 1/4 OF SECTION 31, TOWNSHIP 7 SOUTH, RANGE 17 EAST, COLUMBIA COUNTY, FLORIDA AND RUN THENCE S.87°14'55"W., ALONG THE NORTH LINE OF SAID SECTION 31, A DISTANCE OF 737.64 FEET TO A POINT ON THE SOUTHERLY RIGHT-OF-WAY LINE OF A COUNTY MAINTAINED GRADE ROAD, SAID POINT BEING THE POINT OF BEGINNING; THENCE S.01°47'48"E., A DISTANCE OF 114.27 FEET TO THE POINT OF CURVATURE OF A CURVE TO THE LEFT HAVING A RADIUS OF 230.00 FEET, A CENTRAL ANGLE OF 55°09'08", A TANGENT LENGTH OF 120.12 FEET, A CHORD BEARING OF S.29°22'22"E., AND A CHORD LENGTH OF 212.95 FEET; THENCE ALONG THE ARC OF SAID CURVE, AN ARC DISTANCE OF 221.39 FEET TO A POINT OF REVERSE CURVE OF A CURVE TO THE RIGHT, HAVING A RADIUS OF 170.00 FEET, A CENTRAL ANGLE OF 72°58'42", A TANGENT LENGTH OF 125.74 FEET, A CHORD BEARING OF S.20°27'35"E., AND A CHORD LENGTH OF 202.19 FEET; THENCE ALONG THE ARC OF SAID CURVE, AN ARC DISTANCE OF 216.53 FEET; THENCE S.16°01'48"W., A DISTANCE OF 282.20 FEET TO A POINT HEREINAFTER REFERRED TO AS POINT "A", SAID POINT ALSO BEING THE POINT OF CURVATURE OF A CURVE TO THE LEFT, HAVING A RADIUS OF 300.00 FEET, A CENTRAL ANGLE OF 16°57'20", A TANGENT LENGTH OF 44.72 FEET, A CHORD BEARING OF S.07°33'06"W., AND A CHORD LENGTH OF 88.46 FEET; THENCE ALONG THE ARC OF SAID CURVE, AN ARC DISTANCE OF 88.78 FEET; THENCE S.00°55'34"E., A DISTANCE OF 223.29 FEET TO THE POINT OF CURVATURE OF A CURVE TO THE LEFT HAVING RADIUS OF 270.00 FEET, A CENTRAL ANGLE OF 09°29'10", A TANGENT LENGTH OF 22.40 FEET, A CHORD BEARING OF S.05°40'09"E., AND A CHORD LENGTH OF 44.65 FEET; THENCE ALONG THE ARC OF SAID CURVE, AN ARC DISTANCE OF 44.70 FEET; THENCE S.10°24'44"E., A DISTANCE OF 143.54 FEET TO THE POINT OF CURVATURE OF A CURVE TO THE RIGHT, HAVING A RADIUS OF 330.00 FEET, A CENTRAL ANGLE OF 15°15'21, A TANGENT LENGTH OF 44.19 FEET, A CHORD BEARING OF S.02°47'03"E., AND A CHORD LENGTH OF 87.61 FEET; THENCE ALONG THE ARC OF SAID CURVE, AN ARC DISTANCE OF 87.87 FEET; THENCE S.04°50'37"W., A DISTANCE OF 125.00 FEET TO A POINT HEREINAFTER REFERRED TO AS POINT "B"; THENCE CONTINUE S.04°50'37"W., A DISTANCE OF 58.27 FEET TO THE POINT OF CURVATURE OF A CURVE TO THE LEFT, HAVING A RADIUS OF 80.00 FEET, A CENTRAL ANGLE OF 25°22'17", A TANGENT LENGTH OF 18.01 FEET, A CHORD BEARING OF S.07°50'32"E., AND A CHORD LENGTH OF 35.14 FEET; THENCE ALONG THE ARC OF SAID CURVE, AN ARC DISTANCE OF 35.43 FEET; THENCE S.20°31'41"E., A DISTANCE OF 284.45 FEET TO THE POINT OF CURVATURE OF A CURVE TO THE RIGHT, HAVING A RADIUS OF 300.00 FEET, A CENTRAL ANGLE OF 19°54'39", A TANGENT LENGTH OF 52.66 FEET, A CHORD BEARING OF S.10°34'21"E., AND A CHORD LENGTH OF 103.73 FEET; THENCE ALONG THE ARC OF SAID CURVE, AN ARC DISTANCE OF 104.25 FEET; THENCE S.00°37'02"E., A DISTANCE OF 172.66 FEET TO A POINT HEREINAFTER REFERRED TO AS POINT "C"; THENCE CONTINUE S.00°37'02"E., A DISTANCE OF 266.23 FEET TO THE POINT OF CURVATURE OF A CURVE, HAVING A RADIUS OF 150.00 FEET, A CENTRAL ANGLE OF 47°58'58", A TANGENT LENGTH OF 66.78 FEET, A CHORD BEARING OF S.23°22'27"W., AND A CHORD LENGTH OF 121.98 FEET; THENCE ALONG THEN ARC OF SAID CURVE AN ARC DISTANCE OF 125.62 FEET; THENCE S.47°21'56"W., A DISTANCE OF 70.00 FEET TO THE POINT OF CURVATURE OF A CURVE TO THE LEFT, HAVING A RADIUS OF 150.00 FEET, A CENTRAL ANGLE OF 58°35'13", A TANGENT LENGTH OF 84.15 FEET, A CHORD BEARING OF S.18°04'19"W., AND A CHORD LENGTH OF 146.78 FEET; THENCE ALONG THE ARC OF SAID CURVE, AN ARC DISTANCE OF 153.38 FEET; THENCE S.11°13'17"E., A DISTANCE OF 205.89 FEET TO THE POINT OF CURVATURE OF A CURVE TO THE RIGHT, HAVING A RADIUS OF 150.00 FEET, A CENTRAL ANGLE OF 43°09'40", A TANGENT LENGTH OF 59.33 FEET, A CHORD BEARING OF S.10°21'33"W., AND A CHORD LENGTH OF 110.34 FEET; THENCE ALONG THE ARC OF SAID CURVE, AN ARC DISTANCE OF 113.00 FEET; THENCE S.31°56'23"W., A DISTANCE OF 183.67 FEET TO THE POINT OF CURVATURE OF A CURVE TO THE LEFT, HAVING A RADIUS OF 330.00 FEET, A CENTRAL ANGLE OF12°59'20", A TANGENT LENGTH OF 37.57 FEET, A CHORD BEARING OF S.25°26'43"W., AND A CHORD LENGTH OF 74.65 FEET; THENCE ALONG THE ARC OF SAID CURVE, AN ARC DISTANCE OF 74.81 FEET TO A POINT HEREINAFTER REFERRED TO AS POINT "D", SAID POINT BEING A POINT OF TERMINATION OF SAID CENTERLINE. THENCE BEGIN AT THE AFOREMENTIONED POINT "A", AND RUN THENCE S.84°04'22"W., A DISTANCE OF 140.14 FEET TO THE POINT OF CURVATURE OF A CURVE TO THE RIGHT, HAVING A RADIUS OF 300.00 FEET, A CENTRAL ANGLE OF 29°28'54", A TANGENT LENGTH OF 78.93 FEET, A CHORD BEARING OF N.81°11'11"W., AND A CHORD LENGTH OF 152.67 FEET; THENCE ALONG THE ARC OF SAID CURVE, AN ARC DISTANCE OF 154.37 FEET; THENCE N.66°26'45"W., A DISTANCE OF 156.72 FEET TO THE POINT OF CURVATURE OF A CURVE TO THE LEFT, HAVING A RADIUS OF 330.00 FEET, A CENTRAL ANGLE OF 26°53'38", A TANGENT LENGTH OF 78.90 FEET, A CHORD BEARING OF N.79°53'33"W., AND A CHORD LENGTH OF 153.48 FEET; THENCE ALONG THE ARC OF SAID CURVE, AN ARC DISTANCE OF 154.90 FEET; THENCE S.86°39'38"W., A DISTANCE OF 616.14 FEET TO A POINT HEREINAFTER REFERRED TO AS POINT "E"; THENCE N.44°18'47"W., A DISTANCE OF 17.12 FEET TO THE POINT OF CURVATURE OF A CURVE TO THE RIGHT, HAVING A RADIUS OF 200.00 FEET, A CENTRAL ANGLE OF 42°37'37", A TANGENT LENGTH OF 78.03 FEET, A CHORD BEARING OF N.22°59'59"W., AND A CHORD LENGTH OF 145.39 FEET; THENCE ALONG THE ARC OF SAID CURVE, AN ARC DISTANCE OF 148.80 FEET; THENCE N.01°41'10"W., A DISTANCE OF 565.91 FEET TO THE RADIUS POINT OF A 50 FOOT CUL-DE-SAC, SAID POINT BEING A POINT OF TERMINATION OF SAID CENTERLINE; THENCE RETURNING TO THE AFOREMENTIONED POINT "E", RUN THENCE S.44°18'47"E., A DISTANCE OF 46.97 FEET TO THE POINT OF CURVATURE OF A CURVE TO THE RIGHT, HAVING A RADIUS OF 105.00 FEET, A CENTRAL ANGLE OF 42°33'27", A TANGENT LENGTH OF 40.89 FEET, A CHORD BEARING OF S.23°02'04"E., AND A CHORD LENGTH OF 76.21 FEET; THENCE ALONG THE ARC OF SAID CURVE, AN ARC DISTANCE OF 77.99 FEET; THENCE S.01°45'20"E., A DISTANCE OF 1970.74 FEET TO THE RADIUS POINT OF A 50 FOOT CUL-DE-SAC, SAID POINT BEING A POINT OF TERMINATION OF SAID CENTERLINE. THENCE BEGIN AT THE AFOREMENTIONED POINT "C", AND RUN THENCE N.85°13'54"E., A DISTANCE OF 93.53 FEET TO THE POINT OF CURVATURE OF A CURVE TO THE LEFT, HAVING A RADIUS OF 300.00 FEET, A CENTRAL ANGLE OF 13°51'33", A TANGENT LENGTH OF 36.46 FEET, A CHORD BEARING OF N.78°18'07"E., AND A CHORD LENGTH OF 72.39 FEET; THENCE ALONG THE ARC OF SAID CURVE, AN ARC LENGTH OF 72.57 FEET; THENCE N.71°22'21"E., A DISTANCE OF 354.70 FEET; THENCE N.77°56'34"E., 62.17 FEET; THENCE S.66°25'47"E., A DISTANCE OF 207.86 FEET; THENCE S.89°03'47"E., 142.06 FEET; THENCE N.87°13'37"E., A DISTANCE OF 301.36 FEET TO THE RADIUS POINT OF A 50 FOOT CUL-DE-SAC, SAID POINT BEING A POINT OF TERMINATION OF SAID CENTERLINE. THENCE BEGIN AT THE AFOREMENTIONED POINT "D" AND RUN THENCE N.71°02'57"W., A DISTANCE OF 6.24 FEET; THENCE S.19°16'58"W., A DISTANCE OF 21.70 FEET; THENCE S.72°18'51"E., A DISTANCE OF 780.47 FEET TO THE POINT OF CURVATURE OF A CURVE TO THE LEFT, HAVING A RADIUS OF 500.00 FEET, A CENTRAL ANGLE OF 20°27'26", AND A TANGENT LENGTH OF 90.22 FEET, A CHORD BEARING OF S.82°32'34"E., AND A CHORD LENGTH OF 177.58 FEET; THENCE ALONG THE ARC OF SAID CURVE, AN ARC DISTANCE OF 178.52 FEET; THENCE N.87°13'43"E., A DISTANCE OF 541.28 FEET TO THE RADIUS POINT OF A 50 FOOT CUL-DE-SAC, HEREINAFTER KNOWN AS POINT "F"; THENCE CONTINUING FROM POINT "F", FOLLOWING THE LOT LINE BETWEEN LOTS 36 AND 41, S.01°36'00"W., A DISTANCE OF 637.58 FEET TO POINT "G"; RUN THENCE S.15°29'22"W., A DISTANCE OF 679.83 FEET TO A RADIUS POINT OF A 50.00 FOOT CUL-DE-SAC AND THE POINT OF TERMINATION OF SAID EASEMENT. ALSO AN EASEMENT 40.00 FEET IN WIDTH LYING TO THE RIGHT OF THE FOLLOWING DESCRIBED LINE: COMMENCE AT THE ABOVE MENTIONED POINT "G" AND RUN N.01°36'50"E., A DISTANCE OF 230.00 FEET FOR A POINT OF BEGINNING. THENCE RUN S.82°05'06"E., A DISTANCE OF 647.97

FEET; THENCE N.85°57'47"E., 105.01 FEET TO THE NORTHWEST CORNER OF THE E 1/2 OF THE SE OF SAID SECTION 31; THENCE CONTINUE N.85°57'47"E., A DISTANCE OF 141.00 FEET; THENCE CONTINUE N.85°57'47"E., A DISTANCE OF 459.82 FEET TO THE TERMINATION OF SAID EASEMENT.
ALSO
AN EASEMENT OVER AND ACROSS THE FOLLOWING DESCRIBED PARCEL:
BEGIN AT THE AFOREMENTIONED POINT "D" AND RUN THENCE N.71°02'57"W., A DISTANCE OF 26.24 FEET; THENCE S.19°16'56"W., A DISTANCE OF 1823.87 FEET; THENCE S.70°43'02"E., A DISTANCE OF 64.05 FEET; THENCE N.27°25'42"E., A DISTANCE OF 40.56 FEET; THENCE N.18°54'40"E., A DISTANCE OF 631.89 FEET; THENCE N.70°43'02"W., A DISTANCE OF 25.70 FEET; THENCE N.19°16'58"E., A DISTANCE OF 1152.07 FEET; THENCE N.71°02'57"W., A DISTANCE OF 13.76 FEET TO THE POINT OF BEGINNING.

GENERAL NOTES:

01.) ALL WORK SHALL COMPLY WITH APPLICABLE CODES AND ORDINANCES.

02.) THIS PROJECT HAS BEEN DESIGNED IN ACCORDANCE WITH THE 2004 EDITION OF THE FLORIDA BUILDING CODE RESIDENTIAL AND THE 2005 & 2006 SUPPLEMENTS

03.) ALL WORK SHALL BE PERFORMED IN A FIRST CLASS WORKMANLIKE MANNER.

AREA TABULATION:

MAIN HOUSE	
A/C AREA	2892 S.F.
GARAGE	563 S.F.
COVERED ENTRY	110 S.F.
COVERED LANAI	236 S.F.
TOTAL	3801 S.F.

SHOP	
AREA	1181 S.F.

the lawrence group
ARCHITECTS 205 WORTH AVENUE, PALM BEACH, FLORIDA 33480 P.H. (561) 655-0670

1-1-08	PERMIT ISSUE

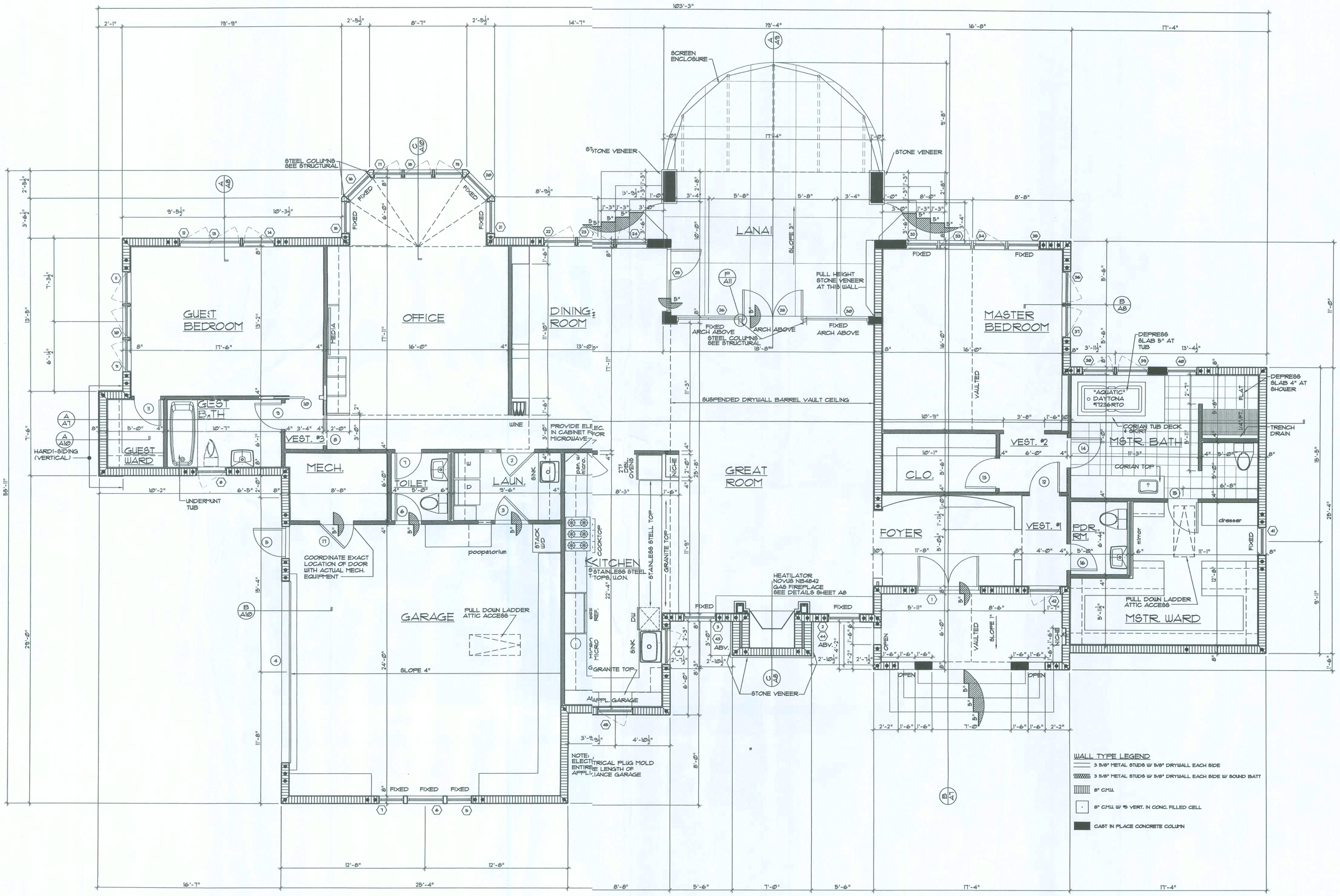
MR. AND MRS. WADE HORNSBY
COLUMBIA COUNTY FLORIDA

SITE PLAN
SCALE:1"=60'

A1

6004

\6004\SCHEME 2\DESIGN DEV\WORKING\SITE.DWG, SITE, 12/31/2007 5:06:02 AM, B2B, JON



1-1-08	PERMIT ISSUE	

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NEW RESIDENCE FOR

MR. AND MRS. WADE HORNSBY

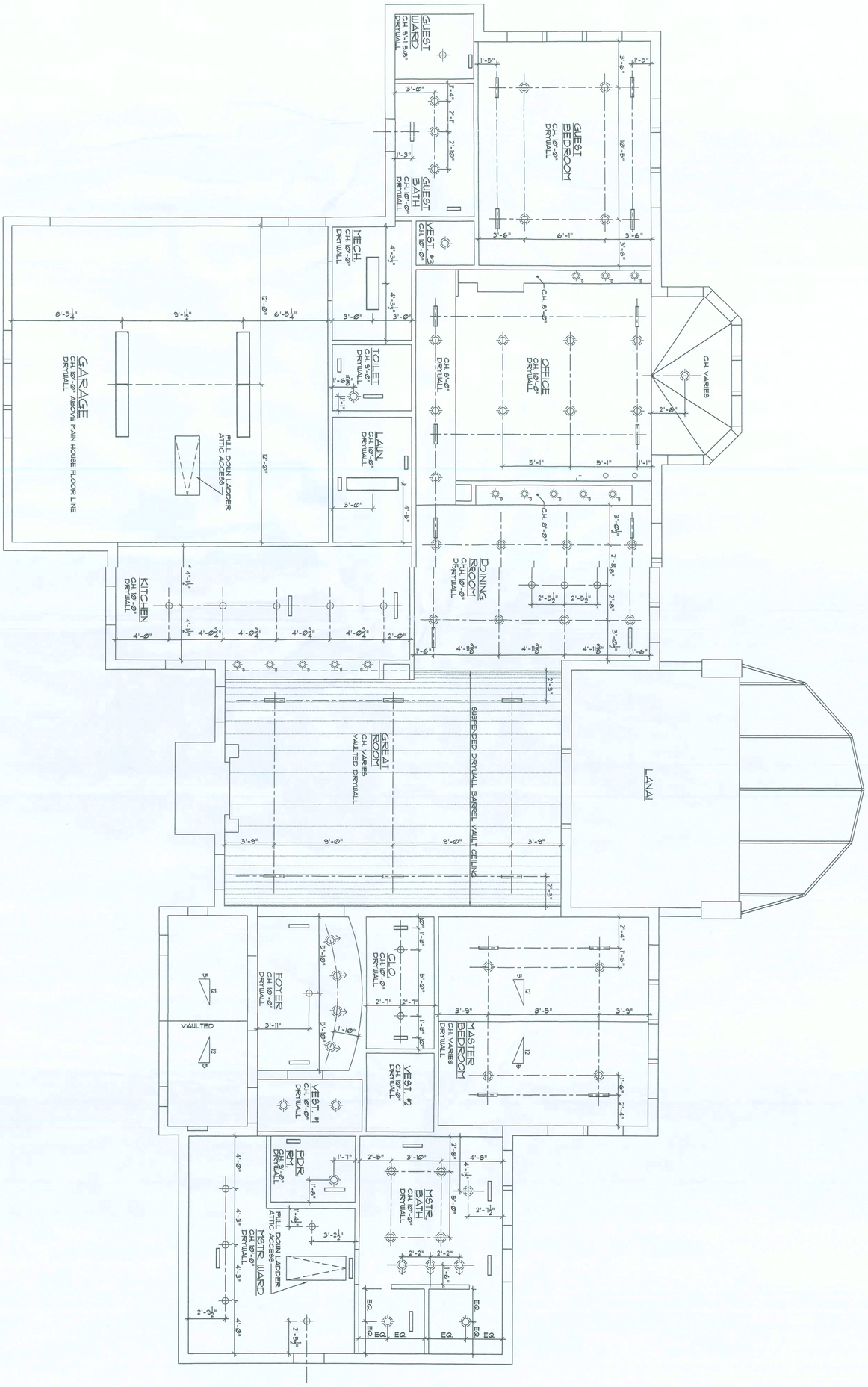
HIGH SPRINGS, FLORIDA

FLOOR PLAN

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

A2

6004



8004	A3	REFLECTED CEILING PLAN SCALE:1/4"=1'-0"	NEW RESIDENCE FOR MR. AND MRS. WADE HORNSBY HIGH SPRINGS, FLORIDA

the lawrence group
ARCHITECTS 205 WORTH AVENUE, PALM BEACH, FLORIDA 33480 P.H. (561) 655-0670

△		
△		
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△	1-1-08	PERMIT ISSUE

1-1-08	PERMIT ISSUE	

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NEW RESIDENCE FOR

MR. AND MRS. WADE HORNSBY

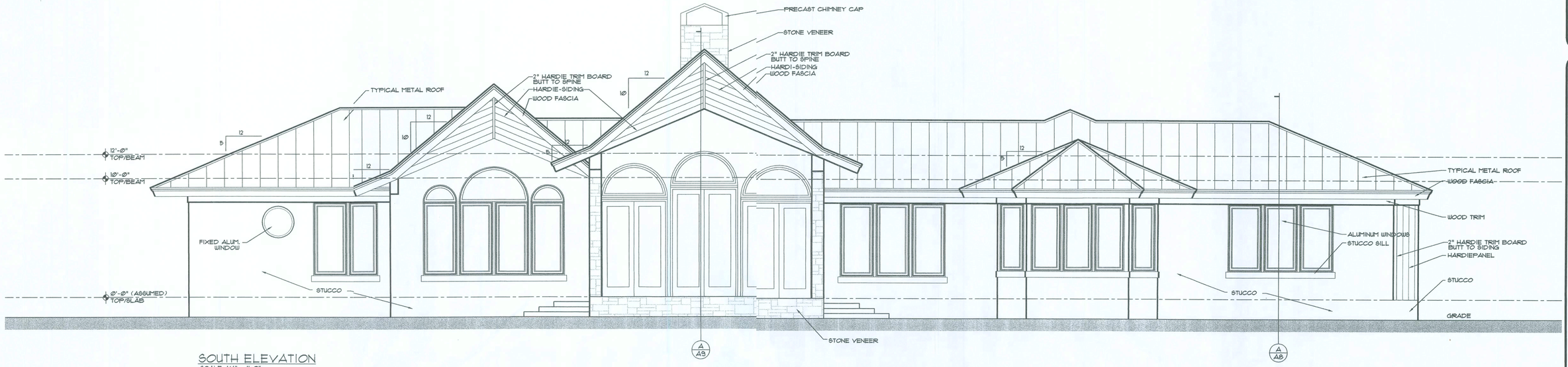
HIGH SPRINGS, FLORIDA

ROOF PLAN

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

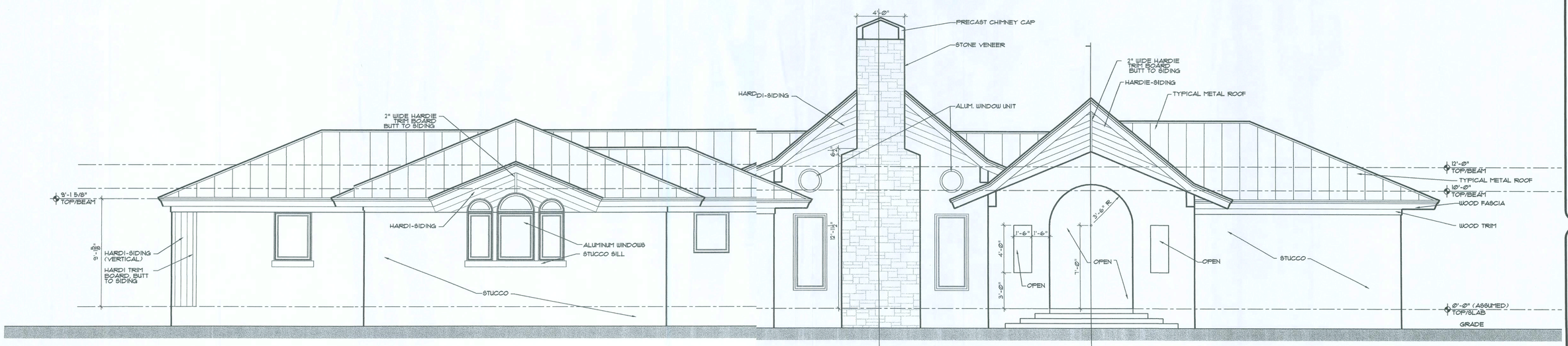
A4

6004



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

NOTE:
- ALL EXTERIOR SILLS TO BE SLOPED, TYPICAL
- ALL EXTERIOR WOOD TRIM AND FASCIA TO BE "HARDI BOARD" TYPICAL



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

1-1-08	PERMIT ISSUE	

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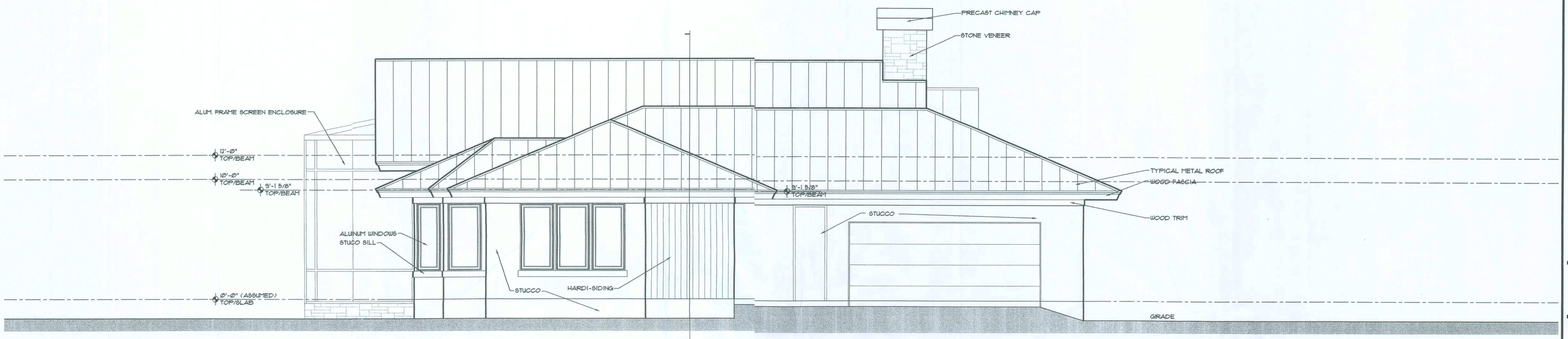
NEW RESIDENCE FOR
MR. AND MRS. WADE HORNSBY
HIGH SPRINGS, FLORIDA

FRONT AND REAR ELEV.
SCALE:1/4"=1'-0"

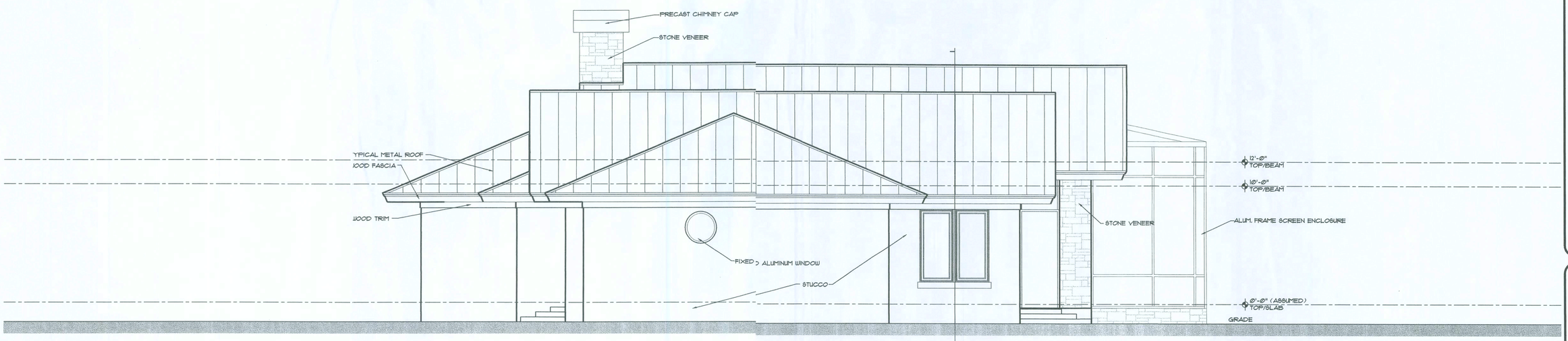
A5

6004



EAST ELEVATION
SCALE: 1/4" 1'-0"

NOTE:
- ALL EXTERIOR SILLS TO BE SLOPED, TYPICAL
- ALL EXTERIOR WOOD TRIM AND FASCIA TO BE "HARDI BOARD" TYPICAL



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

△		
△		
△		
△	1-1-08	PERMIT ISSUE

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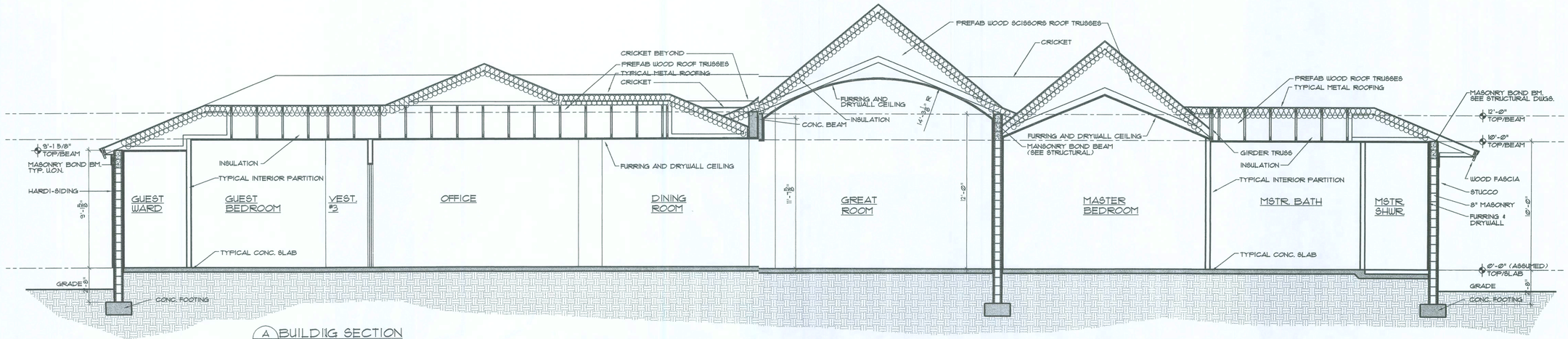
NEW RESIDENCE FOR
MR. AND MRS. WADE HORNSBY
HIGH SPRINGS, FLORIDA

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

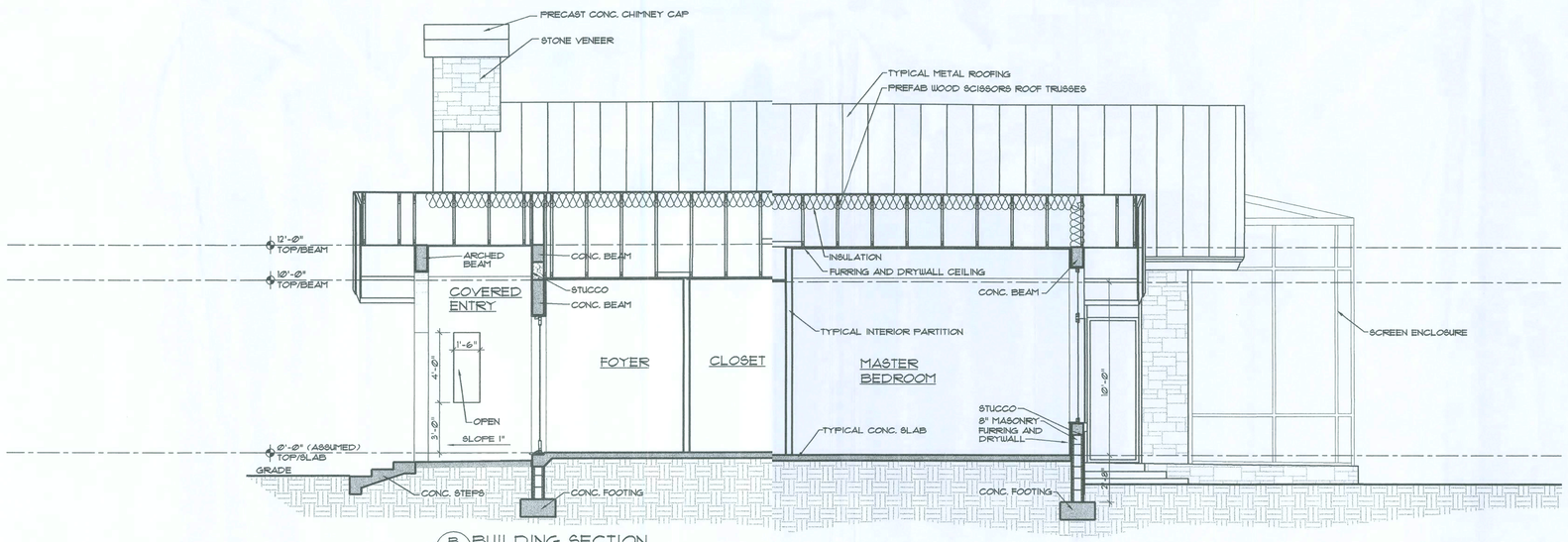
A6

6004



A/A7 BUILDING SECTION
SCALE: 1/4" = 1'-0"

NOTE:
- ALL EXTERIOR SILLS TO BE SLOPED, TYPICAL
- ALL EXTERIOR WOOD TRIM AND FASCIA TO BE "HARDI BOARD" TYPICAL



B/A7 BUILDING SECTION
SCALE: 1/4" = 1'-0"

1	1-1-08	PERMIT ISSUE

the lawrence group
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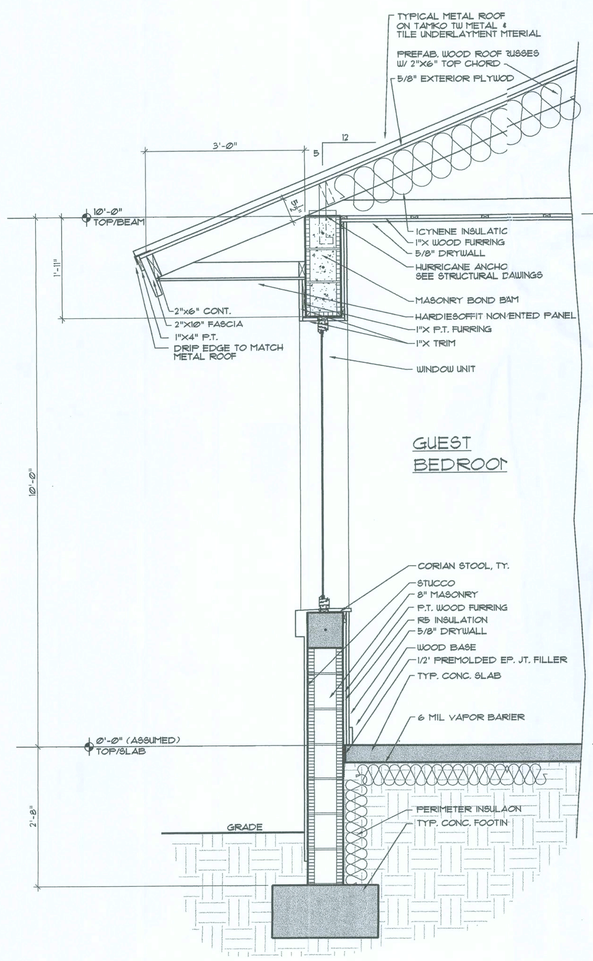
NEW RESIDENCE FOR
MR. AND MRS. WADE HORNSBY
HIGH SPRINGS, FLORIDA

SECTIONS
SCALE AS NOTED

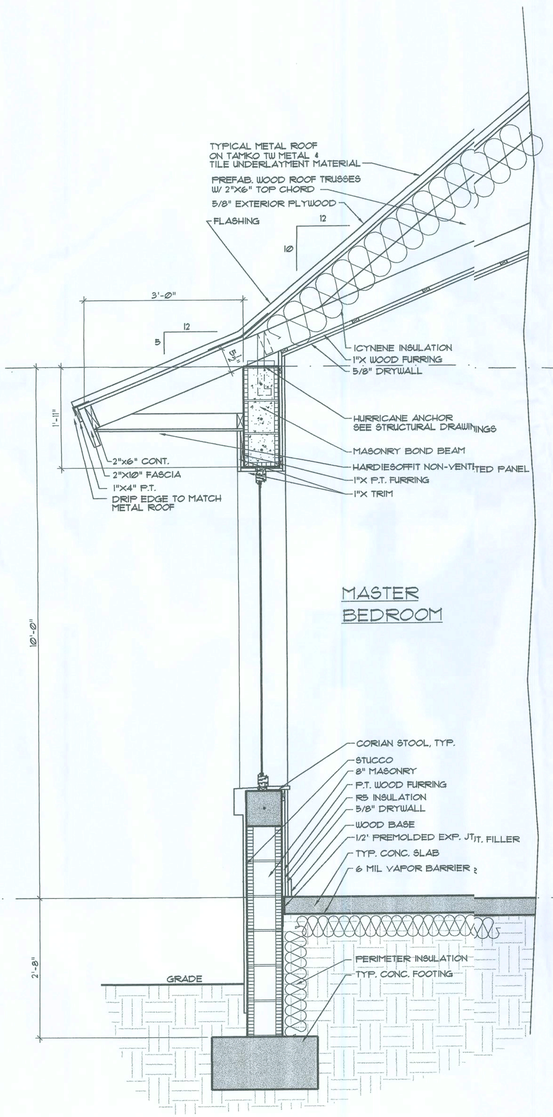
A7

6004

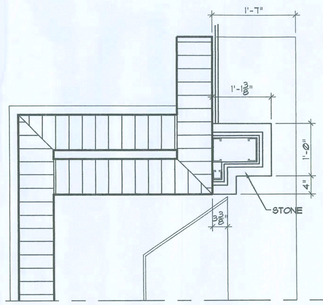
NOTE:
- ALL EXTERIOR SILLS TO BE SLOPED, TYPICAL
- ALL EXTERIOR WOOD TRIM AND FASCIA TO BE "HARDI BOARD" TYPICAL



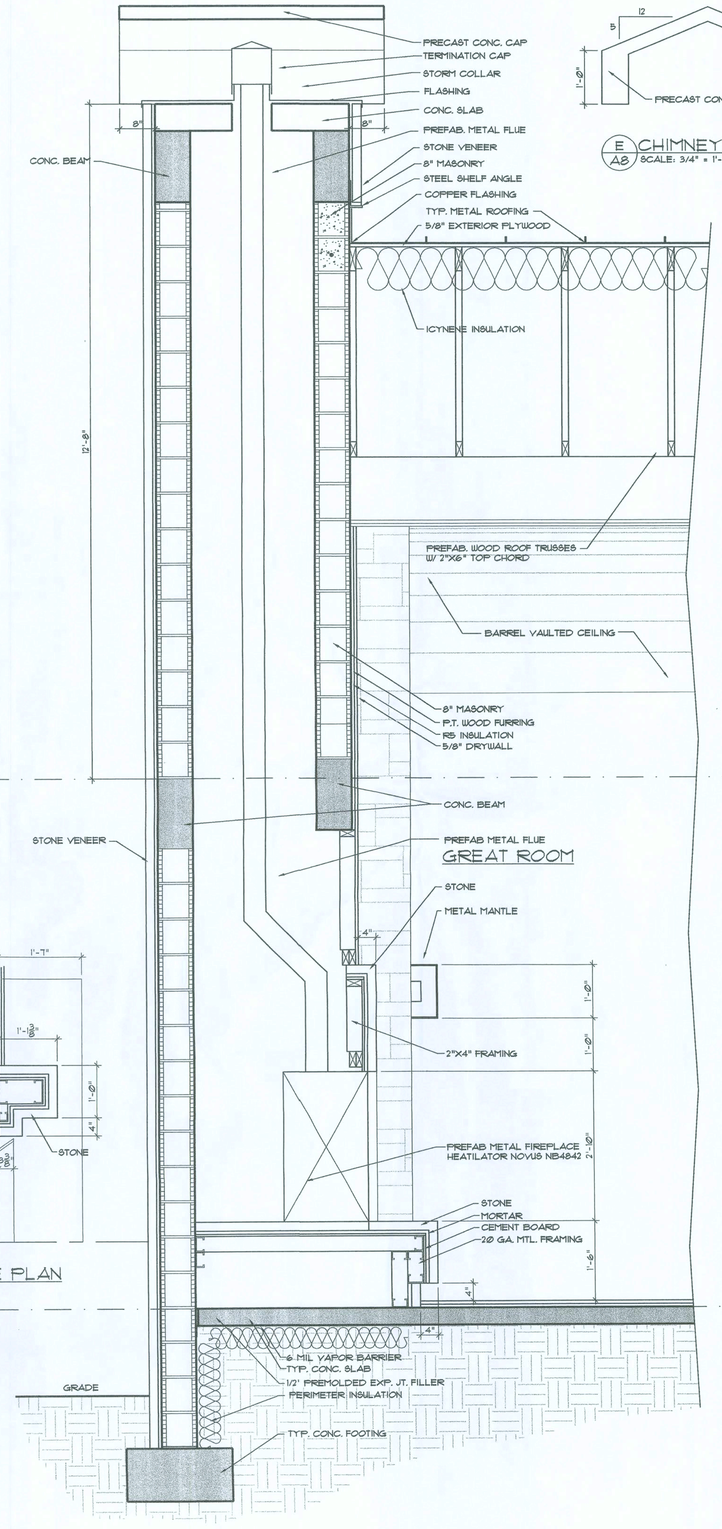
A/A8 WALL SECTION
SCALE: 3/4" = 1'-0"



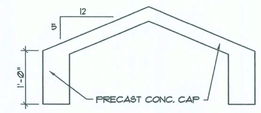
B/A8 WALL SECTION
SCALE: 3/4" = 1'-0"



D/A8 FIREPLACE PLAN
SCALE: 3/4" = 1'-0"



C/A8 FIREPLACE SECTION
SCALE: 3/4" = 1'-0"



E/A8 CHIMNEY CAP DETAIL
SCALE: 3/4" = 1'-0"

1-1-08	PERMIT ISSUE

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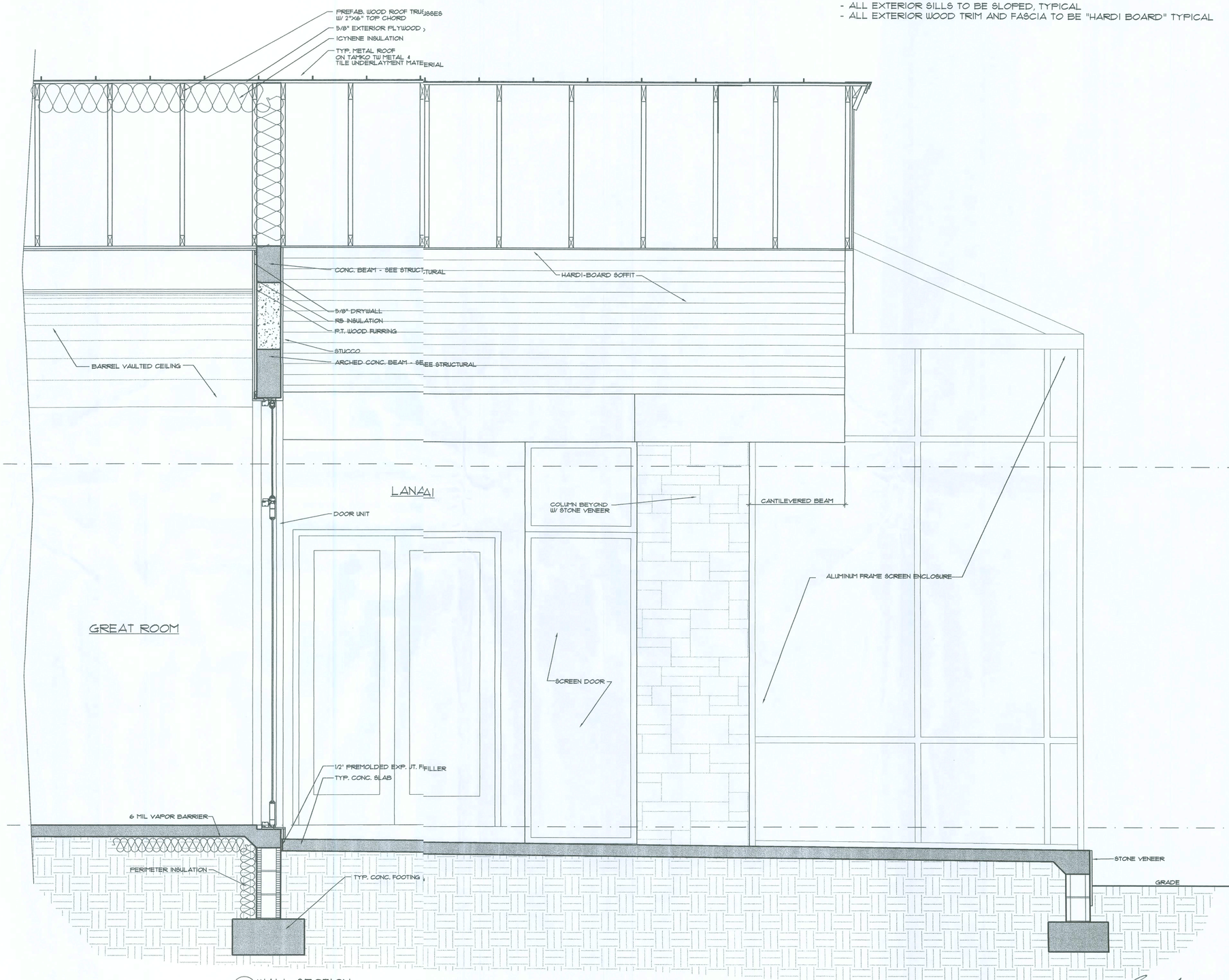
NEW RESIDENCE FOR
MR. AND MRS. WADE HORNSBY
HIGH SPRINGS, FLORIDA

WALL SECTIONS
SCALE AS NOTED

A8

6004

NOTE:
- ALL EXTERIOR SILLS TO BE SLOPED, TYPICAL
- ALL EXTERIOR WOOD TRIM AND FASCIA TO BE "HARDI BOARD" TYPICAL



A/A9 WALL SECTION
SCALE: 3/4" = 1'-0"

1-1-08	PERMIT ISSUE

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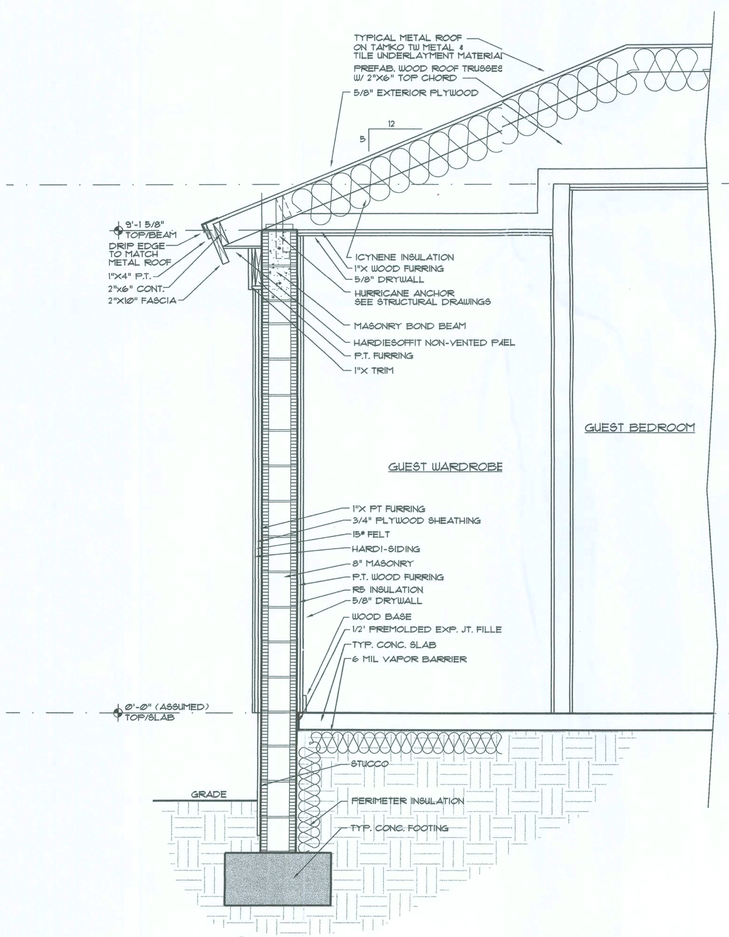
HIGH SPRINGS, FLORIDA

WALL SECTIONS
SCALE AS NOTED

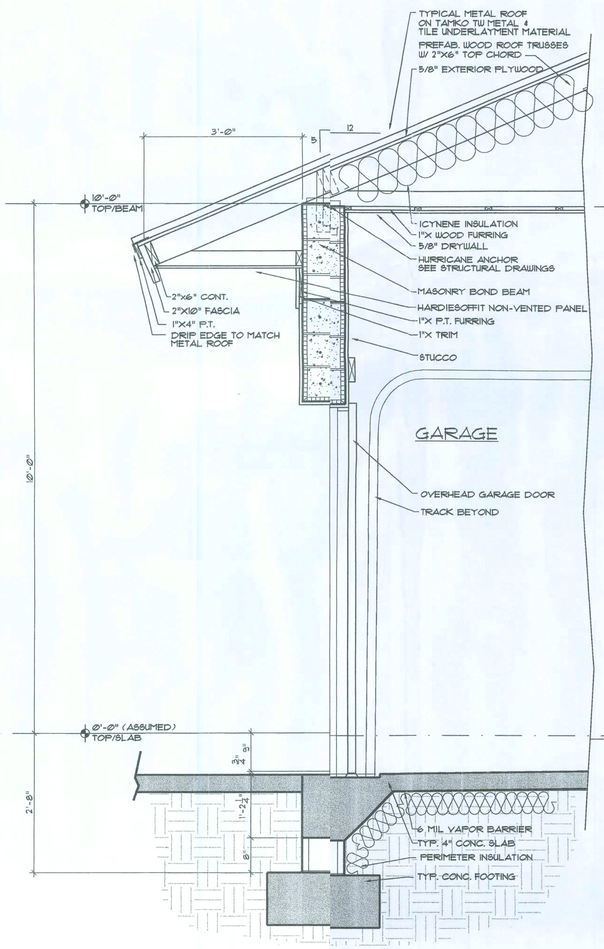
A9

6004

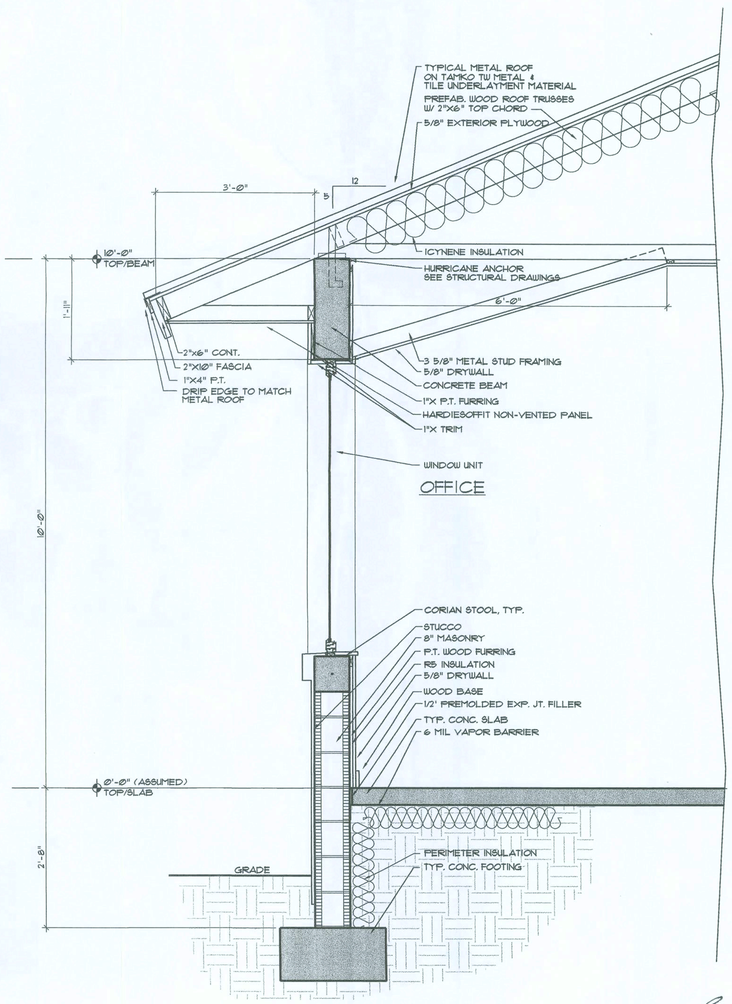
NOTE:
- ALL EXTERIOR SILLS TO BE SLOPED, TYPICAL
- ALL EXTERIOR WOOD TRIM AND FASCIA TO BE "HARDI BOARD" TYPICAL



A WALL SECTION
A10 SCALE: 3/4" = 1'-0"



B WALL SECTION
A10 SCALE: 3/4" = 1'-0"



C WALL SECTION
A10 SCALE: 3/4" = 1'-0"

1-1-08	PERMIT ISSUE	

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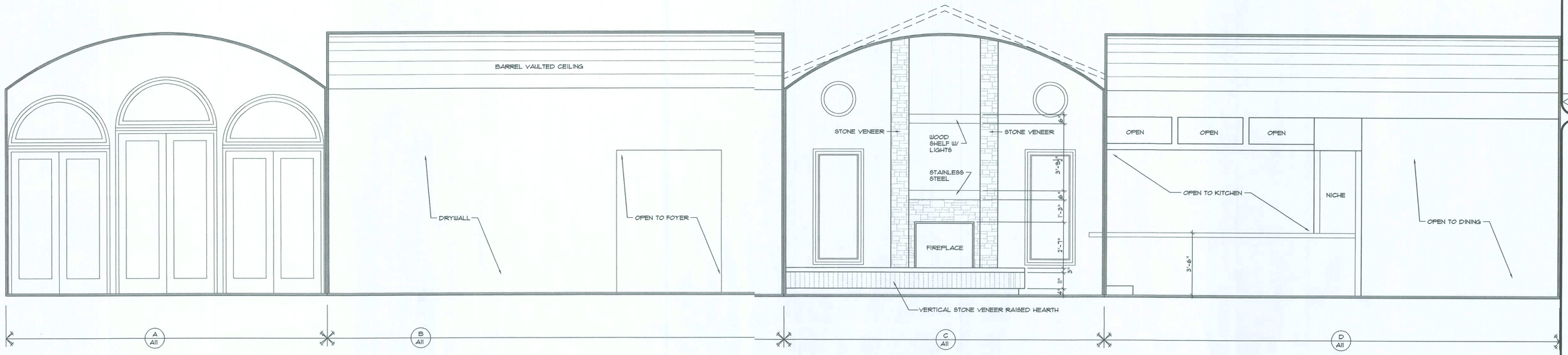
NEW RESIDENCE FOR
MR. AND MRS. WADE HORNSBY
HIGH SPRINGS, FLORIDA

WALL SECTIONS
SCALE AS NOTED

A10

6004

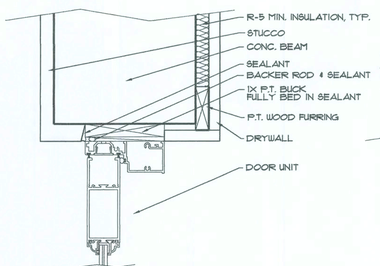


GREAT ROOM
SCALE: 3/8" = 1'-0"

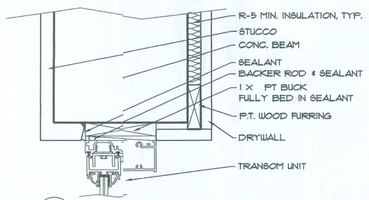
NOTE:
- ALL WOOD IN CONTACT WITH CONCRETE TO BE PRESSURE TREATED

TYP. BASEDETAIL
FULL SIZE

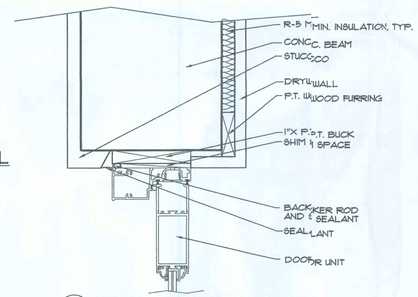
TYP. CASING DETAIL
FULL SIZE



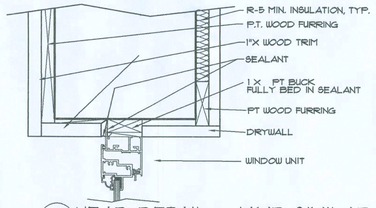
F All JAMB DETAIL
SCALE: 3" = 1'-0"



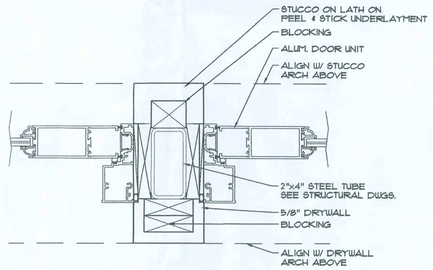
H All TRANSOM HEAD DETAIL
SCALE: 3" = 1'-0"



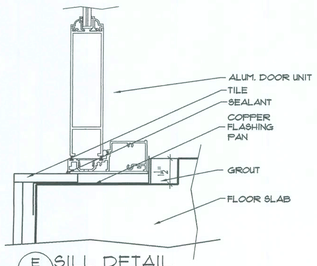
K All HEAD - JAMB SIMILAR?
SCALE: 3" = 1'-0"



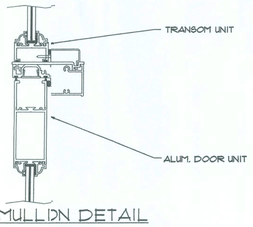
M All HEAD DETAIL - JAMB SIMILAR
SCALE: 3" = 1'-0"



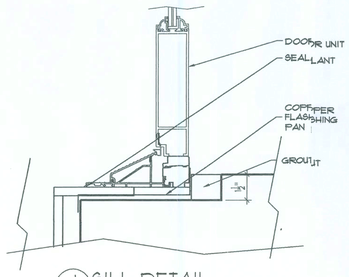
P All DETAIL @ FRENCH DOORS @ LANAI
SCALE: 3" = 1'-0"



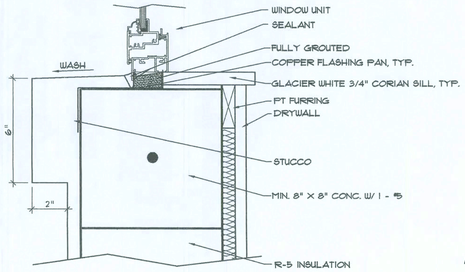
E All SILL DETAIL
SCALE: 3" = 1'-0"



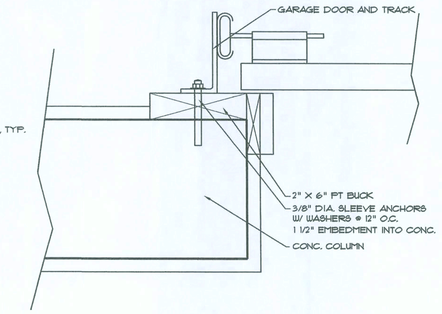
G All MULLION DETAIL
SCALE: 3" = 1'-0"



J All SILL DETAIL
SCALE: 3" = 1'-0"



L All SILL DETAIL
SCALE: 3" = 1'-0"



N All GARAGE DOOR BUCK ANCHOR DETAIL
SCALE: 3" = 1'-0"

1-1-08	PERMIT ISSUE

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NEW RESIDENCE FOR
MR. AND MRS. WADE HORNSBY
HIGH SPRINGS, FLORIDA

DETAILS AND INTERIOR ELEVATIONS
SCALE AS NOTED

A11

6004

EXTERIOR GLAZED DOOR AND WINDOW SCHEDULE

MARK	TYPE	REMARKS
1	A	
2	B	
3	B	
4	C	
5	D	
6	S	
7	D	
8	E	
9	F	
10	F	
11	F	
12	F	
13	F	
14	F	
15	F	
16	F	
17	H	
18	H	
19	H	
20	F	
21	F	
22	G	
23	G	
24	G	
25	J	
26	K	
27	NOT USED	
28	L	
29	NOT USED	
30	K	
31	NOT USED	
32	N	
33 / 34	P	
35	N	
36	G	
37	G	
38	G	
39	G	
40	Q	
41	Q	
42	R	
43	M	
44	M	
45	C	

ROOM FINISH SCHEDULE

SPACE	FLOOR	BASE	WALLS	CEILING		REMARKS
FOYER	WOOD	WOOD	DRYWALL	DRYWALL		
GREAT ROOM	WOOD	WOOD	DRYWALL	DRYWALL		
DINING	WOOD	WOOD	DRYWALL	DRYWALL		
KITCHEN	WOOD	WOOD	DRYWALL	DRYWALL		
LAUNDRY	WOOD	WOOD	DRYWALL	DRYWALL		
GARAGE	CONCRETE	NONE	DRYWALL	STUCCO		
TOILET	WOOD	WOOD	DRYWALL	DRYWALL		
OFFICE	WOOD	WOOD	DRYWALL	DRYWALL		
MECHANICAL	CONCRETE	NONE	DRYWALL	STUCCO		
VESTIBULE #3	WOOD	WOOD	DRYWALL	DRYWALL		
GUEST BATH	CERAMIC TILE	CERAMIC TILE	CERAMIC TILE	DRYWALL		
GUEST BEDROOM	WOOD	WOOD	DRYWALL	DRYWALL		
GUEST WARD	WOOD	WOOD	DRYWALL	DRYWALL		
VESTIBULE #1	WOOD	WOOD	DRYWALL	DRYWALL		
POWDER ROOM	WOOD	WOOD	DRYWALL	DRYWALL		
VESTIBULE #2	WOOD	WOOD	DRYWALL	DRYWALL		
CLOSET	WOOD	WOOD	DRYWALL	DRYWALL		
MASTER BEDROM	WOOD	WOOD	DRYWALL	DRYWALL		
MASTER BATH	CERAMIC TILE	CERAMIC TILE	CERAMIC TILE	DRYWALL		
MASTER WARD	WOOD	WOOD	DRYWALL	DRYWALL		
ENTRY	CONCRETE	NONE	DRYWALL	STUCCO		
LOGGIA	CONCRETE	NONE	DRYWALL	STUCCO / STONE		

NOTE:
WHERE DRYWALLIS INDICATED, USE LEVEL 5 DRYWALL FINISH, TYP.

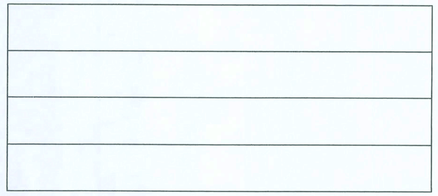
INTERIOR DOOR SCHEDULE

NO.	DOOR SIZE	DOOR TYPE	FRAME	THRESHOLD	REMARKS
1	NOT USED				
2	3'-0"X8'-0"	2			
3	3'-0"X8'-0"	2			
4	16'-0"X7'-0"	4			
5	2'-6"X8'-0"	3			
6	2'-4"X8'-0"	2			
7	2'-4"X8'-0"	2			
8	2'-8"X8'-0"	2			
9	2'-4"X8'-0"	2			
10	2'-8"X8'-0"	2			
11	2'-4"X8'-0"	2			
12	2'-8"X8'-0"	2			
13	2'-8"X8'-0"	2			
14	2'-8"X8'-0"	2			
15	2'-8"X8'-0"	2			
16	2'-4"X8'-0"	2			
17	3'-0"X8'-0"	2			

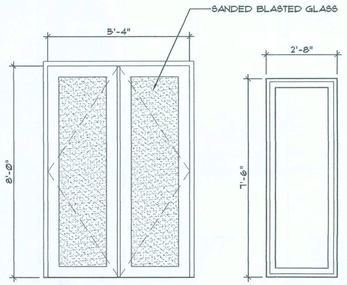
TYPE 1
FLUSH PANEL
INTERIOR DOOR
1 3/4" THICK
STAIN GRADE
WOOD FRAME

TYPE 2
FLUSH PANEL
INTERIOR DOOR
1 3/4" THICK
STAIN GRADE
WOOD FRAME

TYPE 3
FLUSH PANEL
EXTERIOR DOOR
1 3/4" THICK
ALUMINUM FRAME
WEATHERSTRIPPING

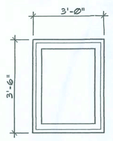


TYPE 4
OVERHEAD ROLLING STEEL GARAGE DOOR

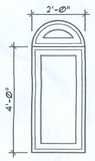


TYPE A
MAHOGANY 1 GLASS
EXTERIOR DOORS
WEATHERSTRIPPING
ALUMINUM THRESHOLD
ASTRAGAL

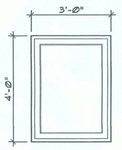
TYPE B
ALUMINUM CASEMENT
IMPACT RESISTANT RATED



TYPE C
ALUMINUM CASEMENT
IMPACT RESTANT RATED

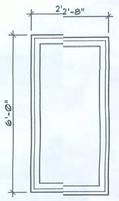


TYPE D
ALUMINUM CASEMENT
IMPACT RESISTANT RATED



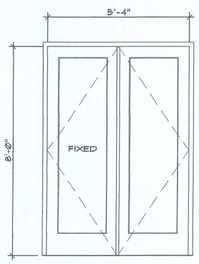
TYPE E
ALUMINUM CASEMENT
IMPACT RESISTANT RATED

TYPE F
ALUMINUM CASEMENT
IMPACT RESISTANT RATED

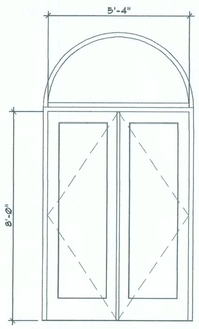


TYPE G
ALUMINUM CASEMENT
IMPACT RESISTANT RATED

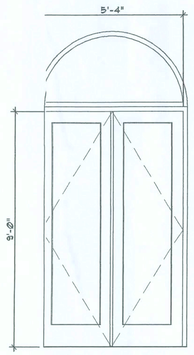
TYPE H
ALUMINUM CASEMENT
IMPACT RESISTANT RATED



TYPE J
ALUMINUM / GLASS
EXTERIOR DOORS
WEATHERSTRIPPING
ALUMINUM THRESHOLD
ASTRAGAL
SEE PLAN FOR ACTIVE LEAF

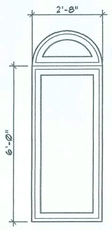


TYPE K
ALUMINUM / GLASS
EXTERIOR DOORS
WEATHERSTRIPPING
ALUMINUM THRESHOLD
ASTRAGAL
TRANSOM

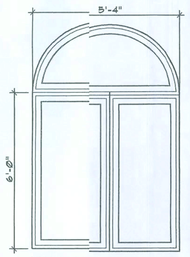


TYPE L
ALUMINUM / GLASS
EXTERIOR DOORS
WEATHERSTRIPPING
ALUMINUM THRESHOLD
ASTRAGAL
TRANSOM

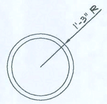
TYPE M
ALUMINUM
FIXED GLASS



TYPE N
ALUMINUM CASEMENT
IMPACT RESISTANT RATED
TRANSOM

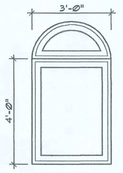


TYPE P
ALUMINUM CASEMENT
IMPACT RESISTANT RATED
TRANSOM



TYPE Q
ALUMINUM
FIXED GLASS

TYPE R
ALUMINUM CASEMENT
IMPACT RESISTANT RATED



TYPE S
ALUMINUM CASEMENT
IMPACT RESISTANT RATED

WINDOW/DOOR TYPES

NOTE:
SEE FLOOR PLAN FOR HAND OF WINDOWS

the lawrence group
ARCHITECTS 205 WORTH AVENUE, PALM BEACH, FLORIDA 33480 P.H. (561) 655-0670

1-1-08	PERMIT ISSUE

NEW RESIDENCE FOR
MR. AND MRS. WADE HORNSBY
HIGH SPRINGS, FLORIDA

SCHEDULES

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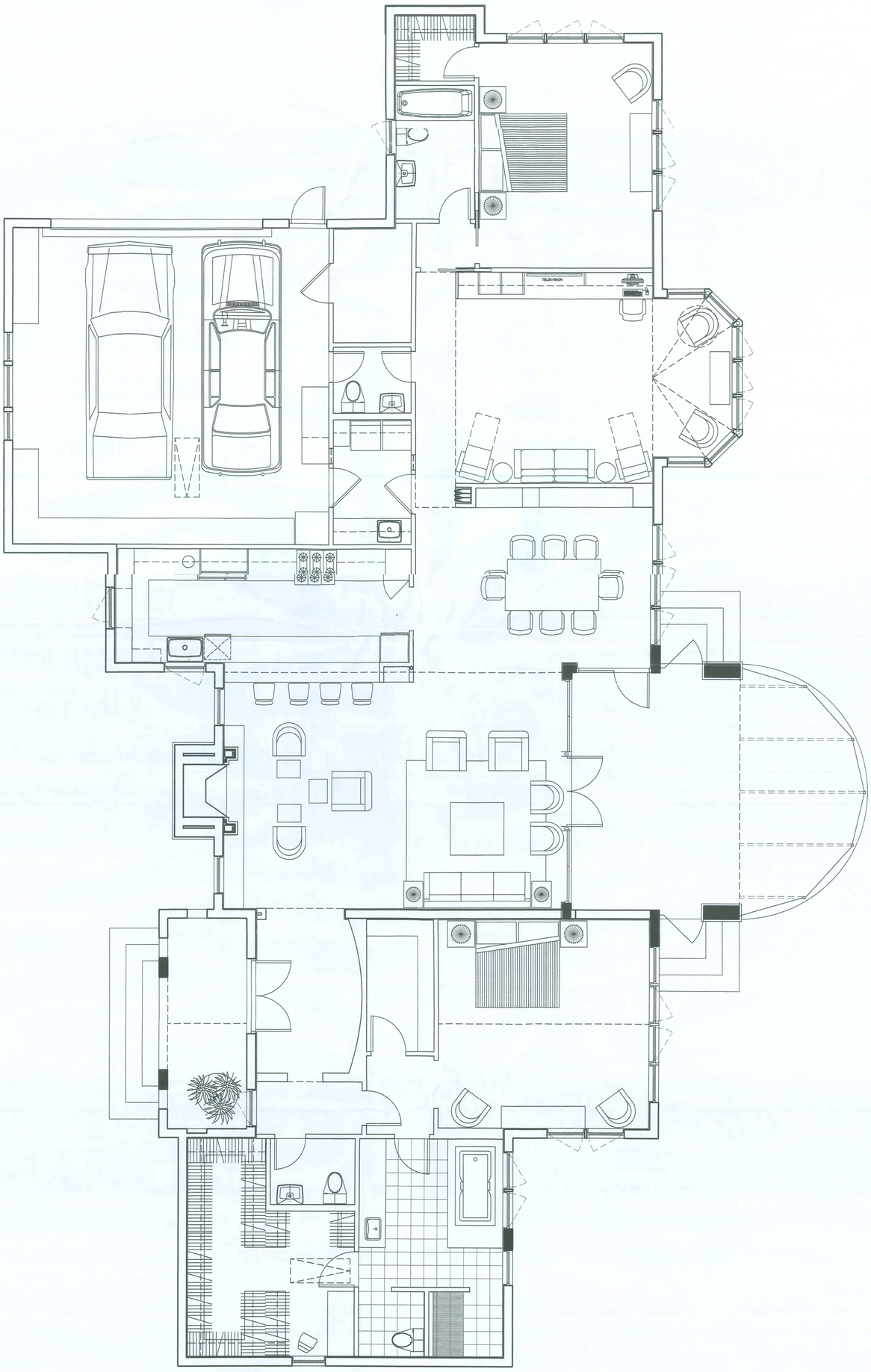


6004

A13

FURNITURE PLAN

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

NEW RESIDENCE FOR

MR. AND MRS. WADE HORNSBY

HIGH SPRINGS, FLORIDA

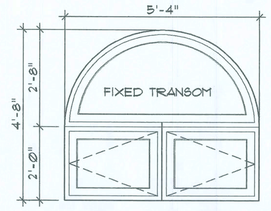
the lawrence group

ARCHITECTS 205 WORTH AVENUE, PALM BEACH, FLORIDA 33480 P.H. (561) 655-0670

△		
△		
△		
△	1-1-08	PERMIT ISSUE

WINDOW SCHEDULE

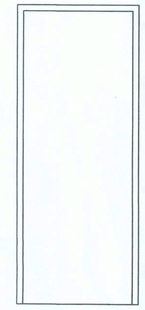
MARK	TYPE	REMARKS
81	A	



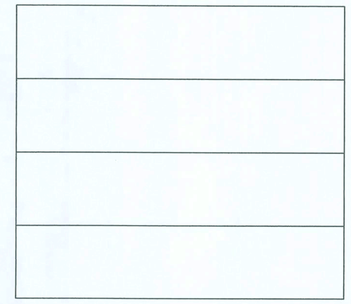
TYPE A
ALUMINUM CASEMENT
W/ FIXED TRANSOM
IMPACT RESISTANT RATED

DOOR SCHEDULE

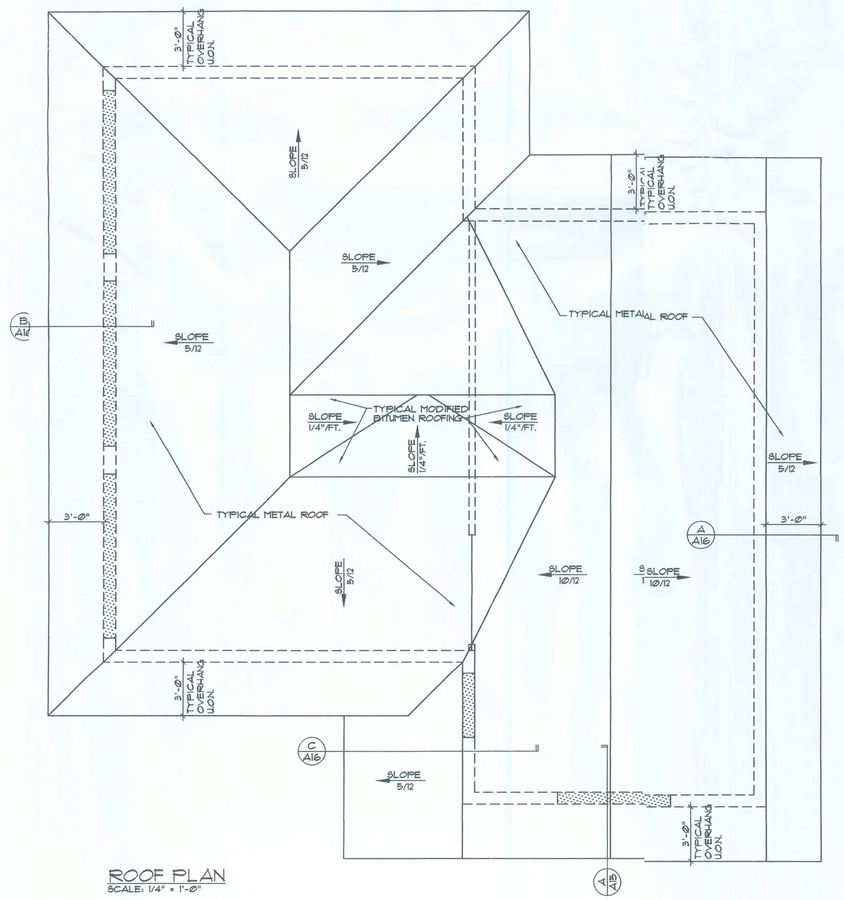
NO.	DOOR SIZE	DOOR TYPE	FRAME	THRESHOLD	REMARKS
81	PR 3'-0"X8'-0"	1			
82	3'-0"X8'-0"	1			
83	9'-0"X8'-0"	2			
84	9'-0"X8'-0"	2			
85	9'-0"X8'-0"	2			



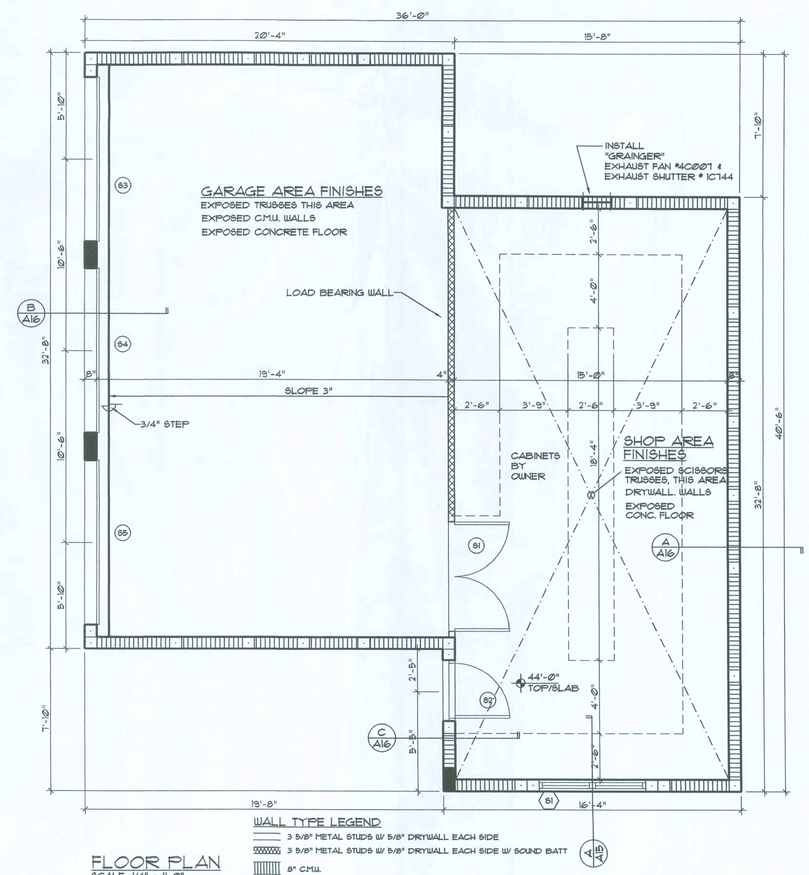
TYPE 1
EXTERIOR
FLUSH PANEL
HOLLOW METAL DOOR
1 3/4' THICK
HOLLOW METAL FRAME
WEATHERSTRIPPING



TYPE 2
OVERHEAD ROLLING STEEL GARAGE DOOR
HEAVY DUTY ELECTRIC OPERATOR
(2) REMOTE TRANSMITTERS



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



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

WALL TYPE LEGEND
- 3 5/8" METAL STUDS W/ 5/8" DRYWALL EACH SIDE
- 3 5/8" METAL STUDS W/ 5/8" DRYWALL EACH SIDE W/ SOUND BATT
- 8" C.M.U.
- 8" C.M.U. W/ #5 VERT. IN CONC. FILLED CELL
- CAST IN PLACE CONCRETE COLUMN

SHOP

A14

6004

1-1-08	PERMIT ISSUE	

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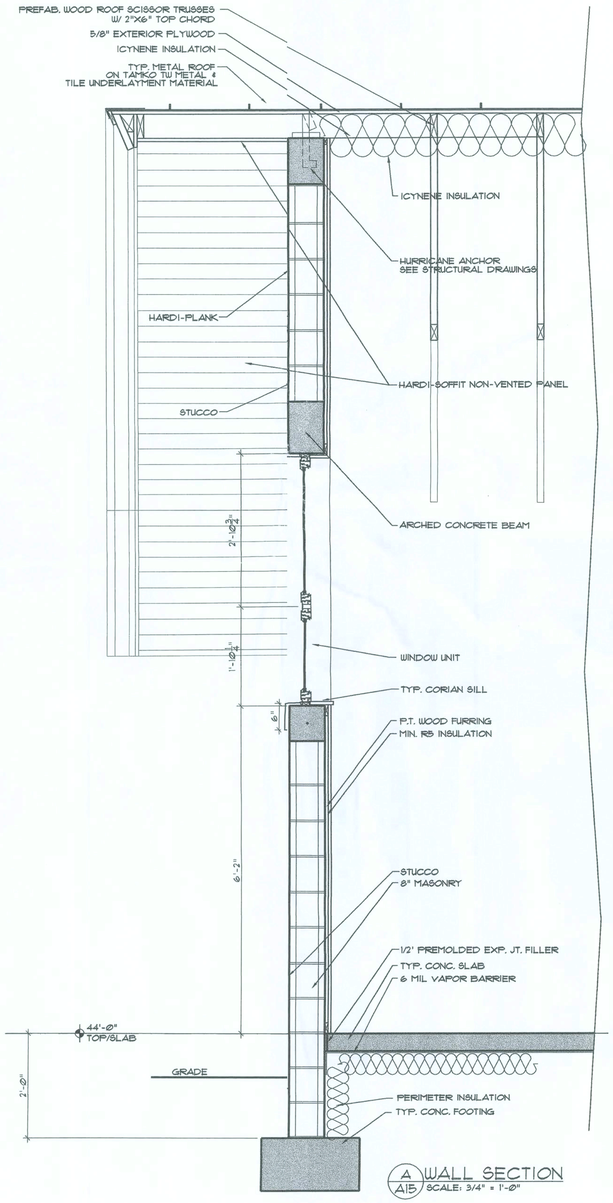
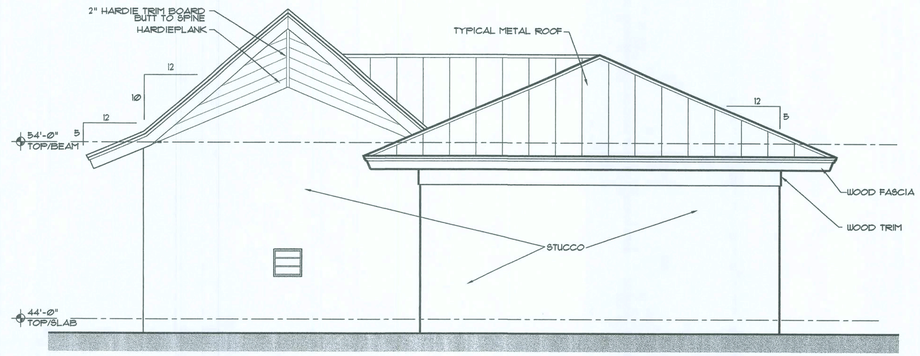
MR. AND MRS. WADE HORNSBY
COLUMBIA COUNTY FLORIDA

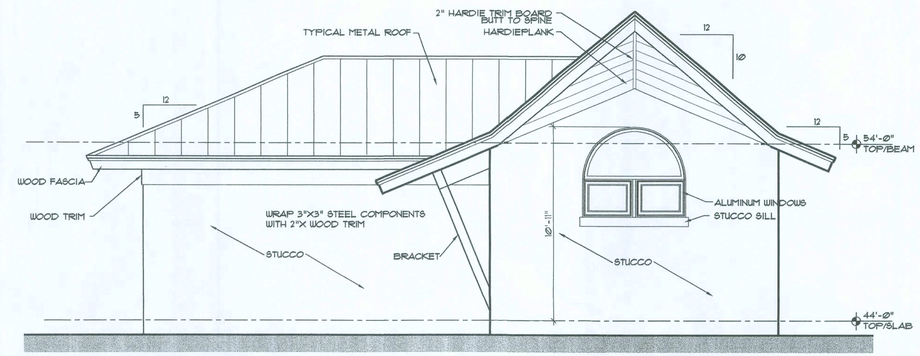
FLOOR & ROOF PLANS
SCHEDULES
SCALE:1/4"=1'-0"



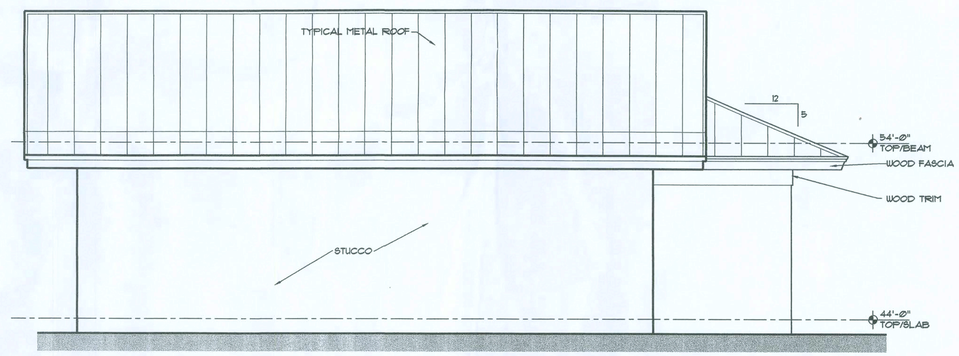
A / A15 WALL SECTION
SCALE: 3/4" = 1'-0"



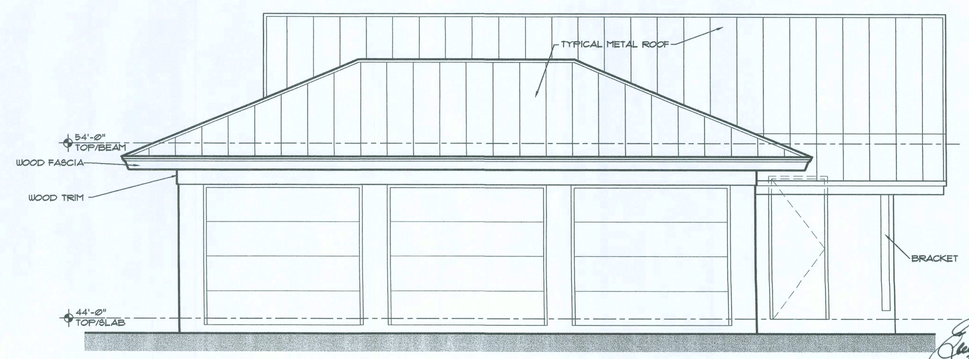
WEST ELEVATION
SCALE: 1/4" = 1'-0"



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



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



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

SHOP A15

6004

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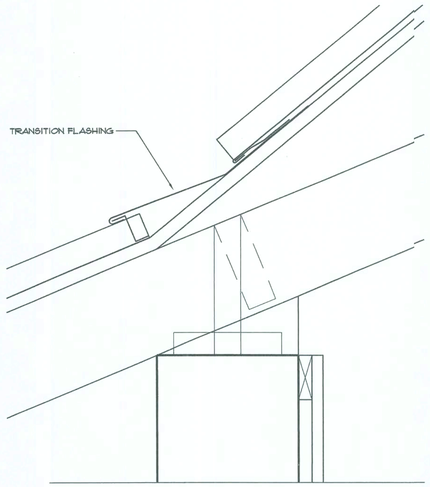
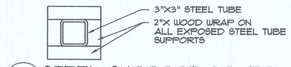
COLUMBIA COUNTY FLORIDA

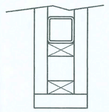
SHOP ELEVATIONS
WALL SECTION
SCALE: AS NOTED



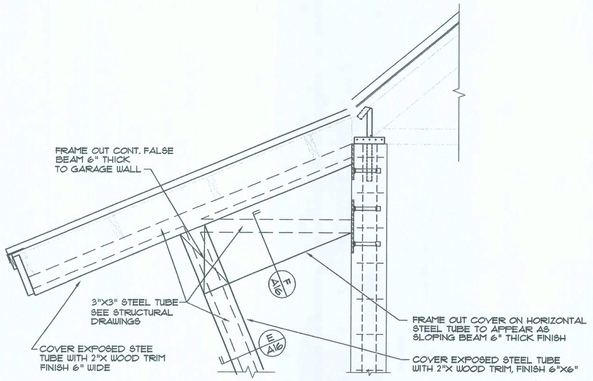
G A16 ROOF TRANSITION DETAIL
SCALE: 3" = 1'-0"



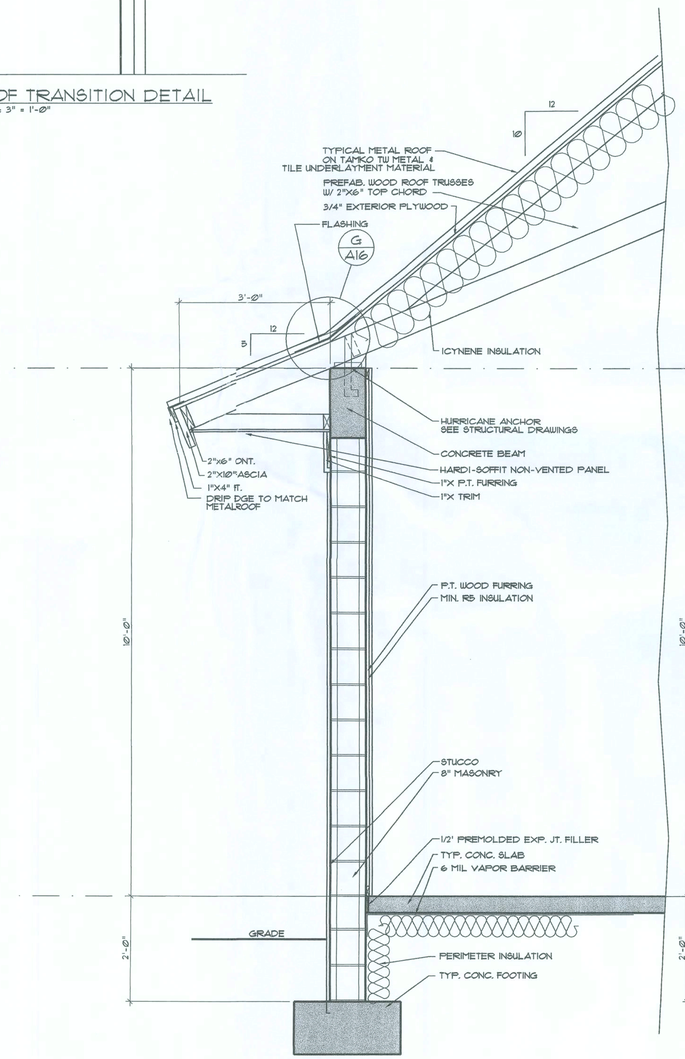
E A16 STEEL SUPPORT COVER
SCALE: 1 1/2" = 1'-0"



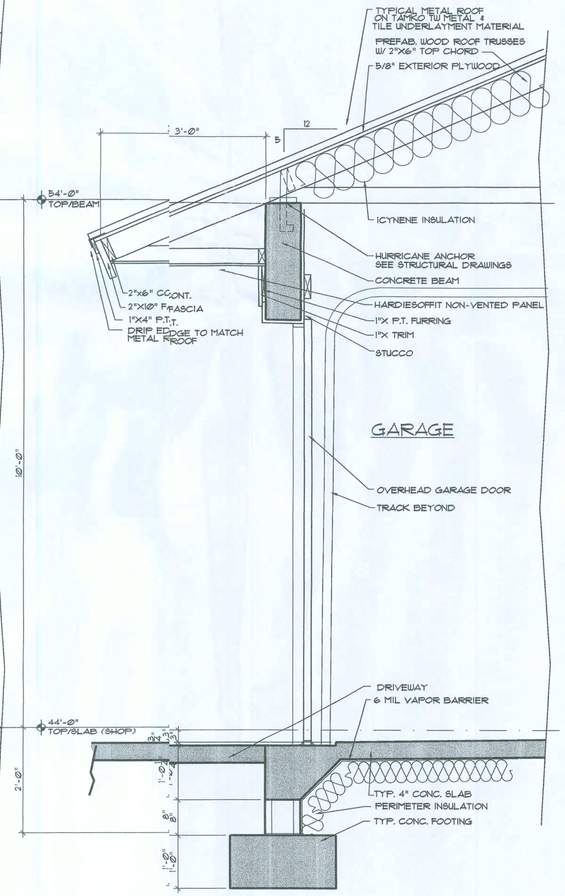
F A16 SLOPING FALSE BEAM
SCALE: 1 1/2" = 1'-0"



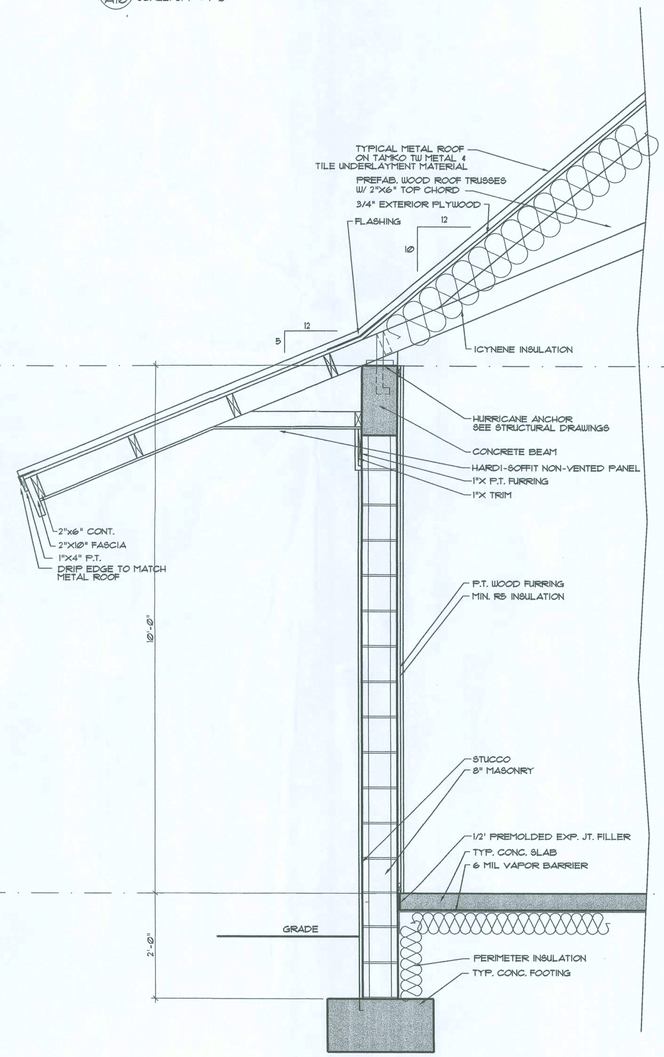
D A16 STEEL ROOF SUPPORT
SCALE: 3/4" = 1'-0"



A A16 WALL SECTION
SCALE: 3/4" = 1'-0"



B A16 WALL SECTION
SCALE: 3/4" = 1'-0"



C A16 WALL SECTION
SCALE: 3/4" = 1'-0"

1-1-08	PERMIT ISSUE

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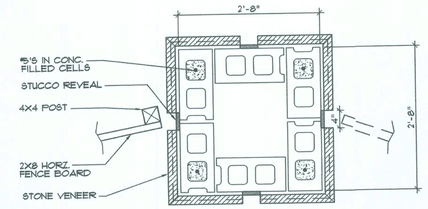
MR. AND MRS. WADE HORNSBY
COLUMBIA COUNTY FLORIDA

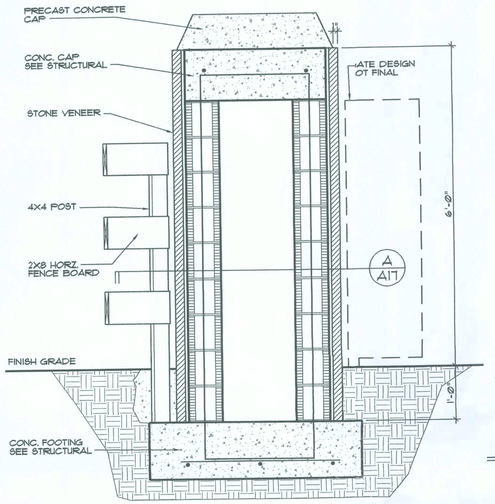
WALL SECTIONS
SCALE:3/4"=1'-0"

SHOP A16

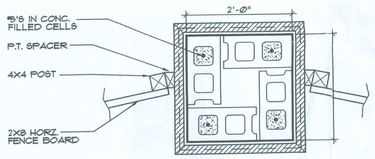
6004



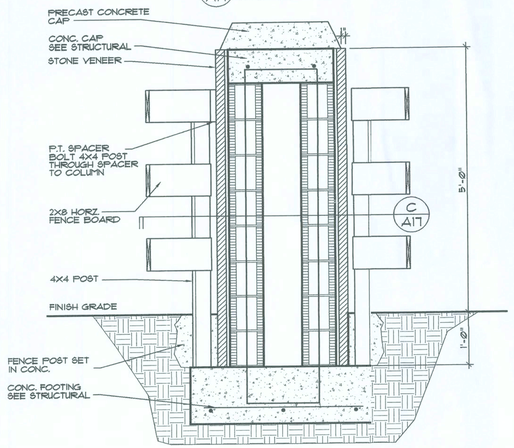
A/A17 PIER PLAN
SCALE: 3/4" = 1'-0"



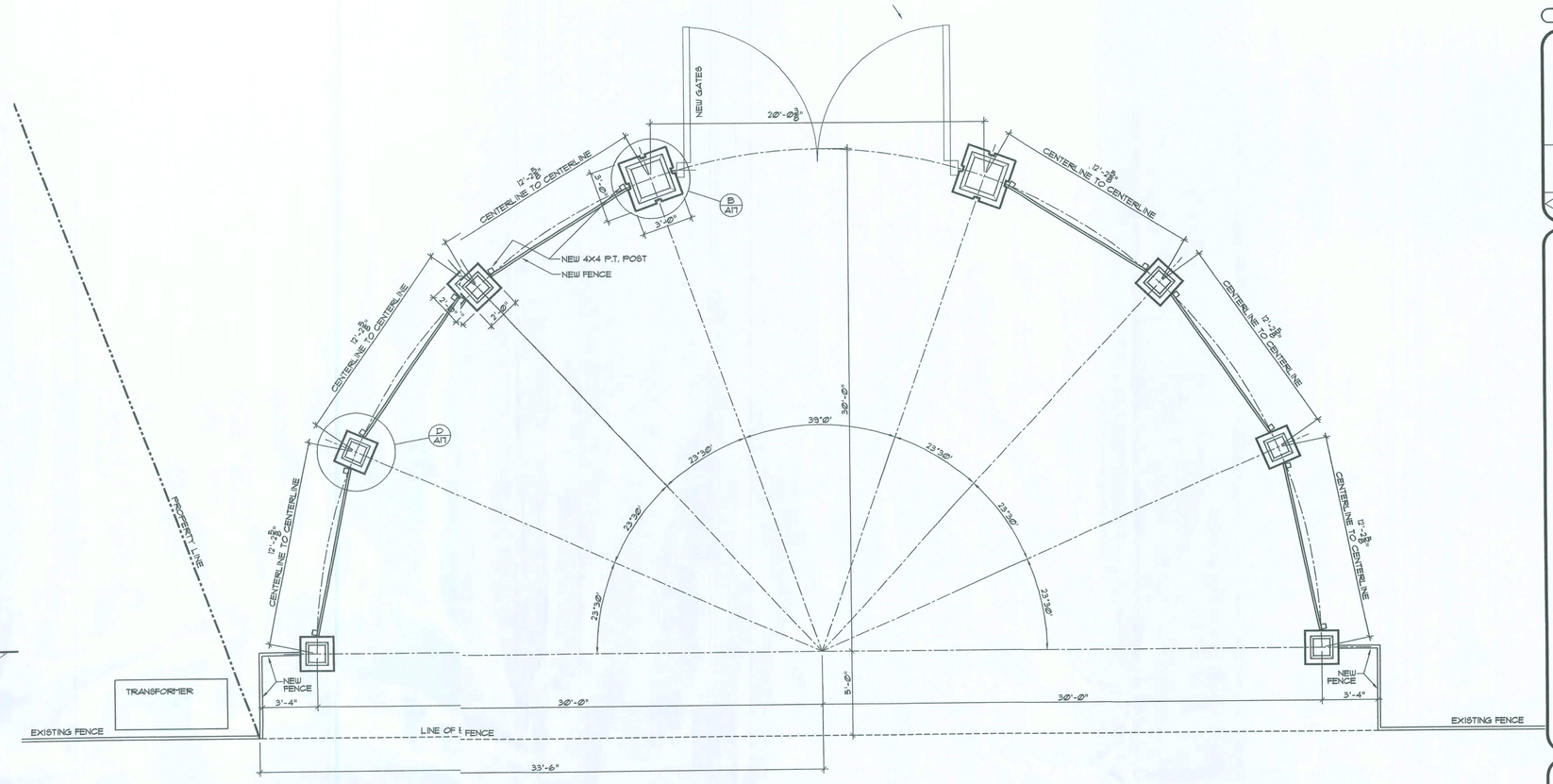
B/A17 PIER SECTION
SCALE: 3/4" = 1'-0"



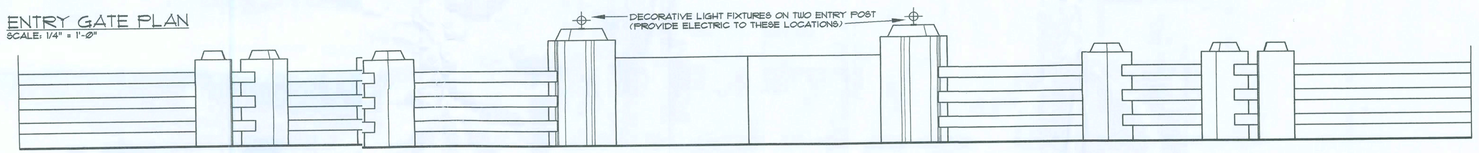
C/A17 PIER PLAN
SCALE: 3/4" = 1'-0"



D/A17 PIER SECTION
SCALE: 3/4" = 1'-0"



ENTRY GATE PLAN
SCALE: 1/4" = 1'-0"



ENTRY GATE ELEVATION
SCALE: 1/4" = 1'-0"

1-1-08	PERMIT ISSUE	

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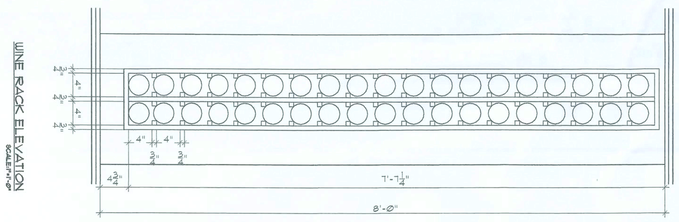
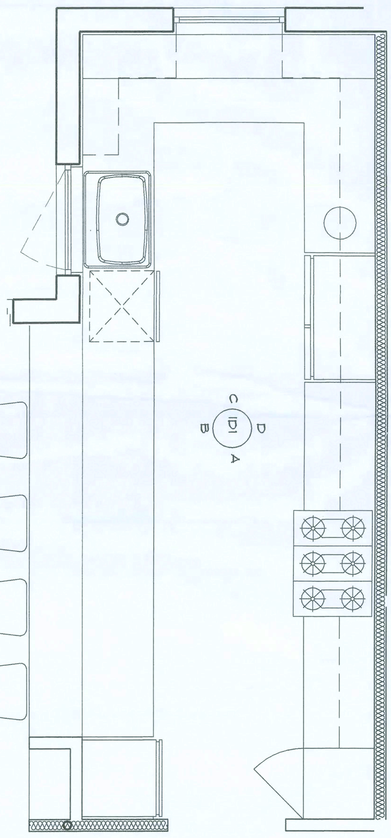
MR. AND MRS. WADE HORNSBY
COLUMBIA COUNTY FLORIDA

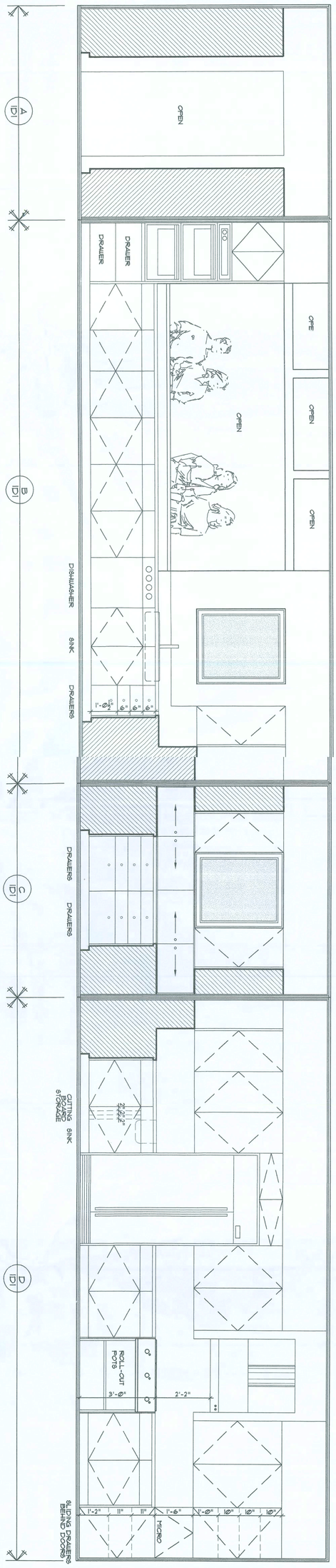
ENTRY GATE
SCALE: 1/4"=1'-0"

A17

6004







ID1

INTERIORS

SCALE:1/2"=1'-0"

NEW RESIDENCE FOR

MR. AND MRS. WADE HORNSBY

HIGH SPRINGS, FLORIDA

the lawrence group

ARCHITECTS 205 WORTH AVENUE, PALM BEACH, FLORIDA 33480 P.H. (561) 655-0670

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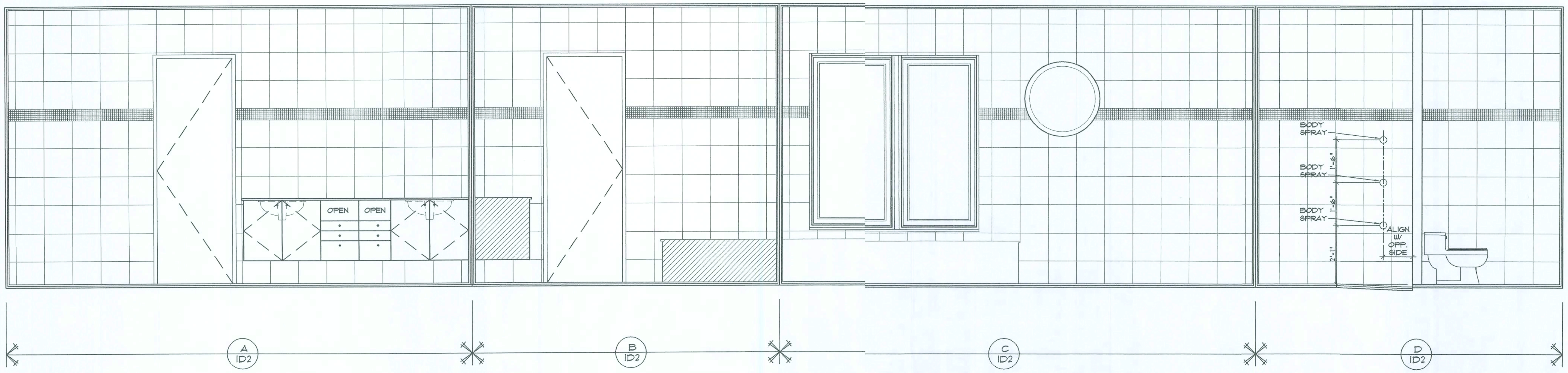
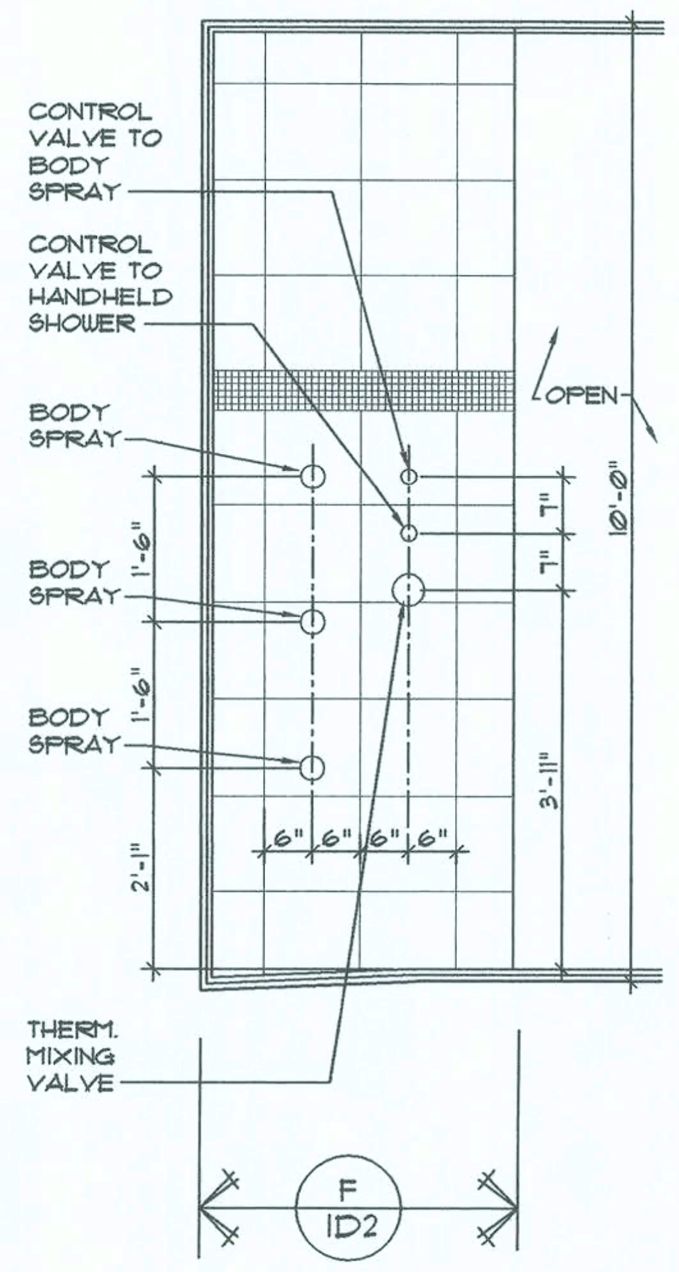
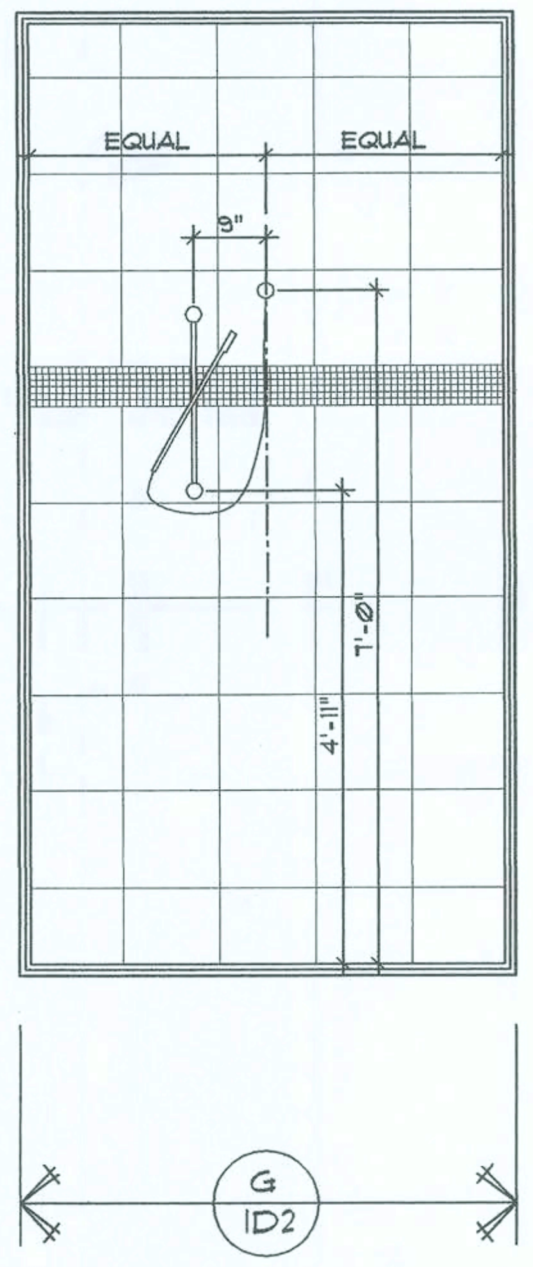
△	1-1-08	PERMIT ISSUE

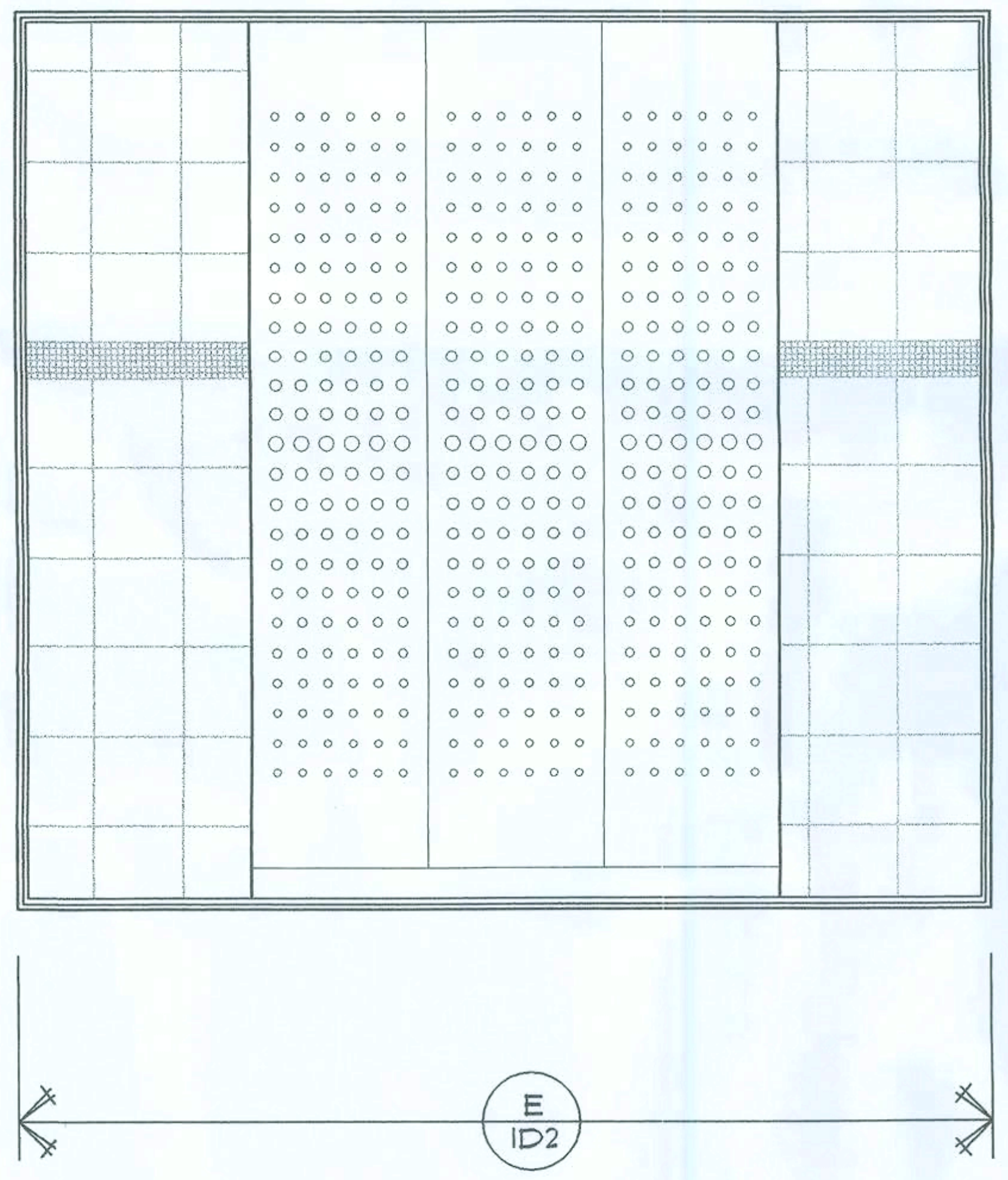
0004

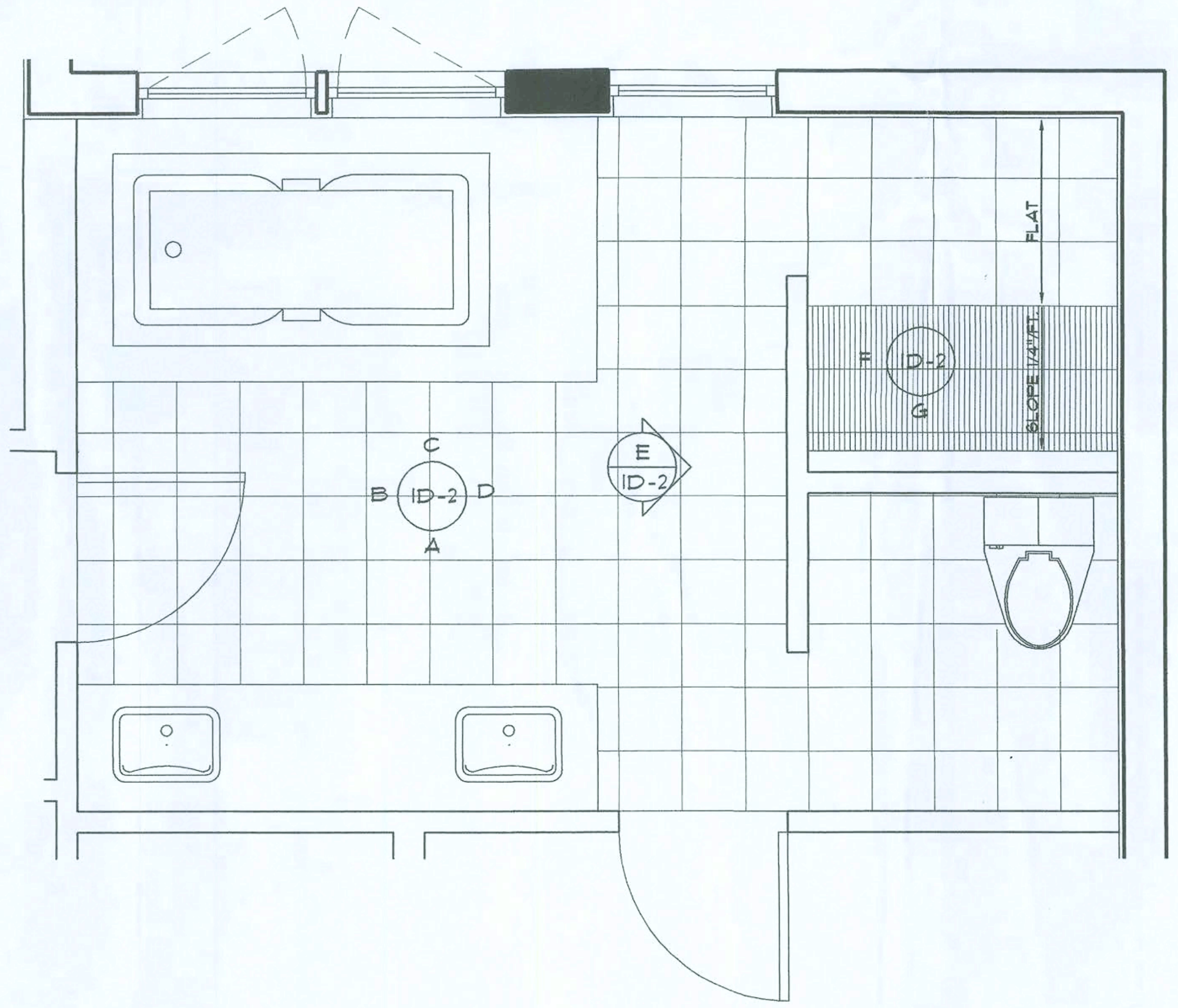




MASTER BATH







Eugene L

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△
△
△ 1-1-08 PERMIT ISSUE

the lawrence group
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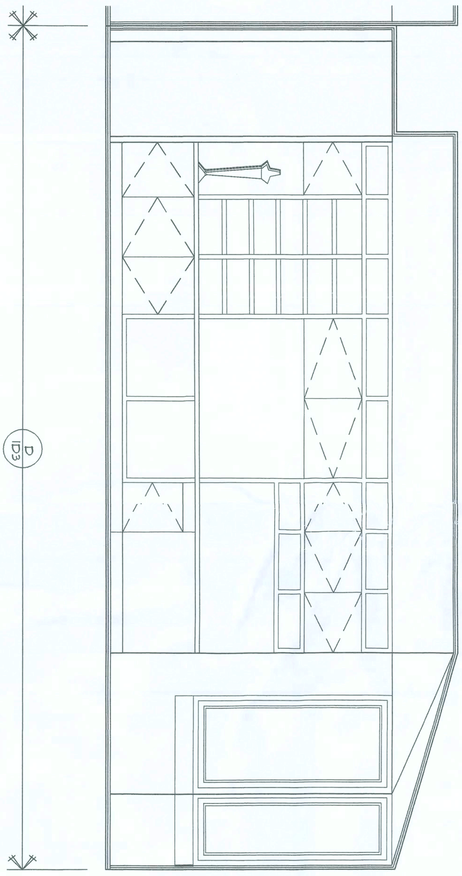
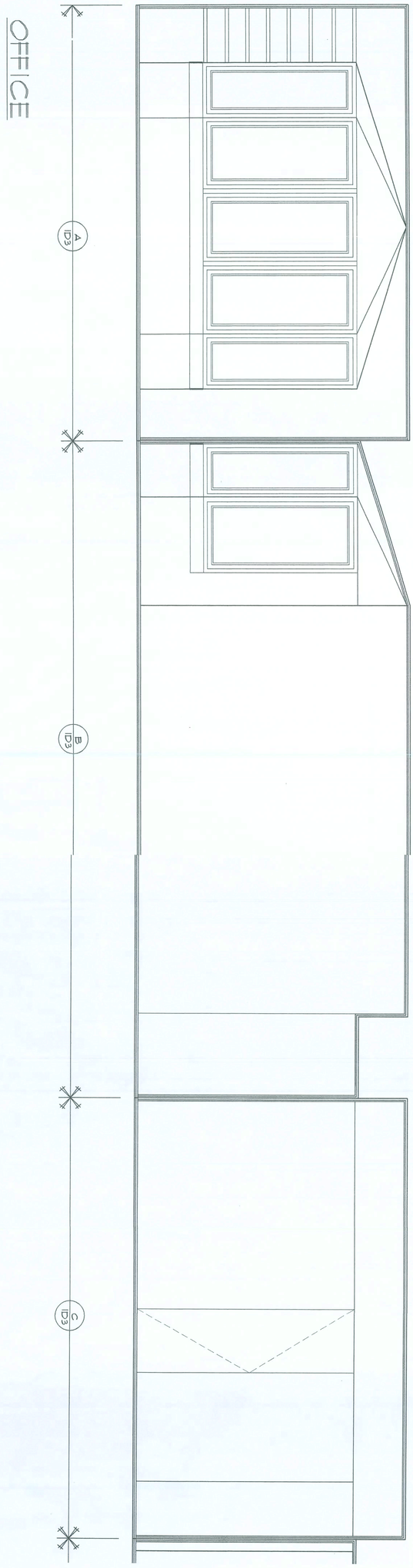
NEW RESIDENCE FOR
MR. AND MRS. WADE HORNSBY
HIGH SPRINGS, FLORIDA

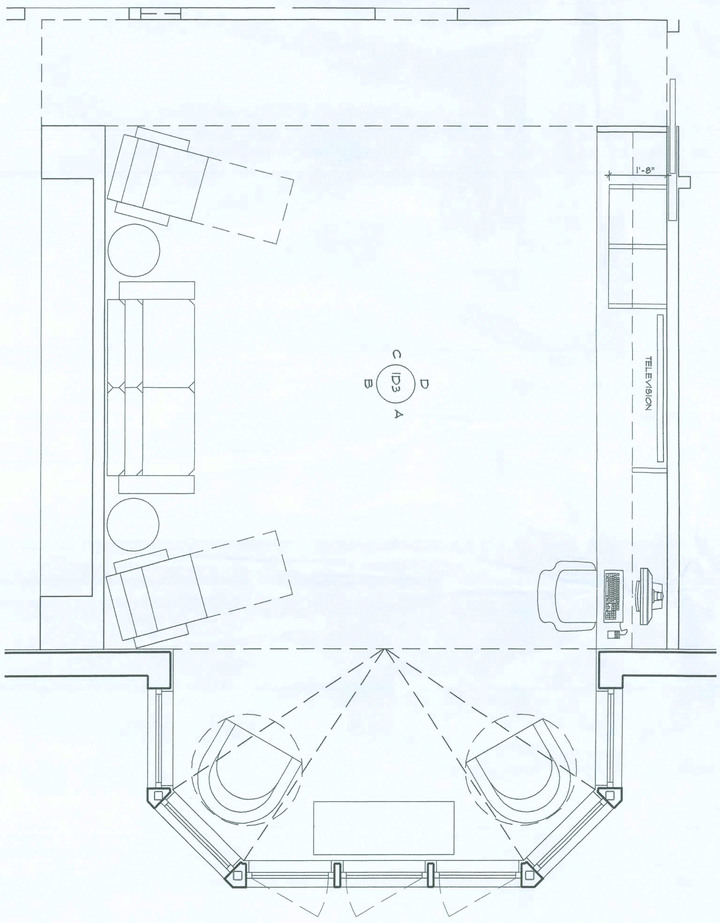
INTERIORS
SCALE:1/2"=1'-0"

ID2

6004







6004

ID3

INTERIORS

SCALE:1/2"=1'-0"

NEW RESIDENCE FOR

MR. AND MRS. WADE HORNSBY

HIGH SPRINGS, FLORIDA

the lawrence group

ARCHITECTS 205 WORTH AVENUE, PALM BEACH, FLORIDA 33480 P.H. (561) 655-0670

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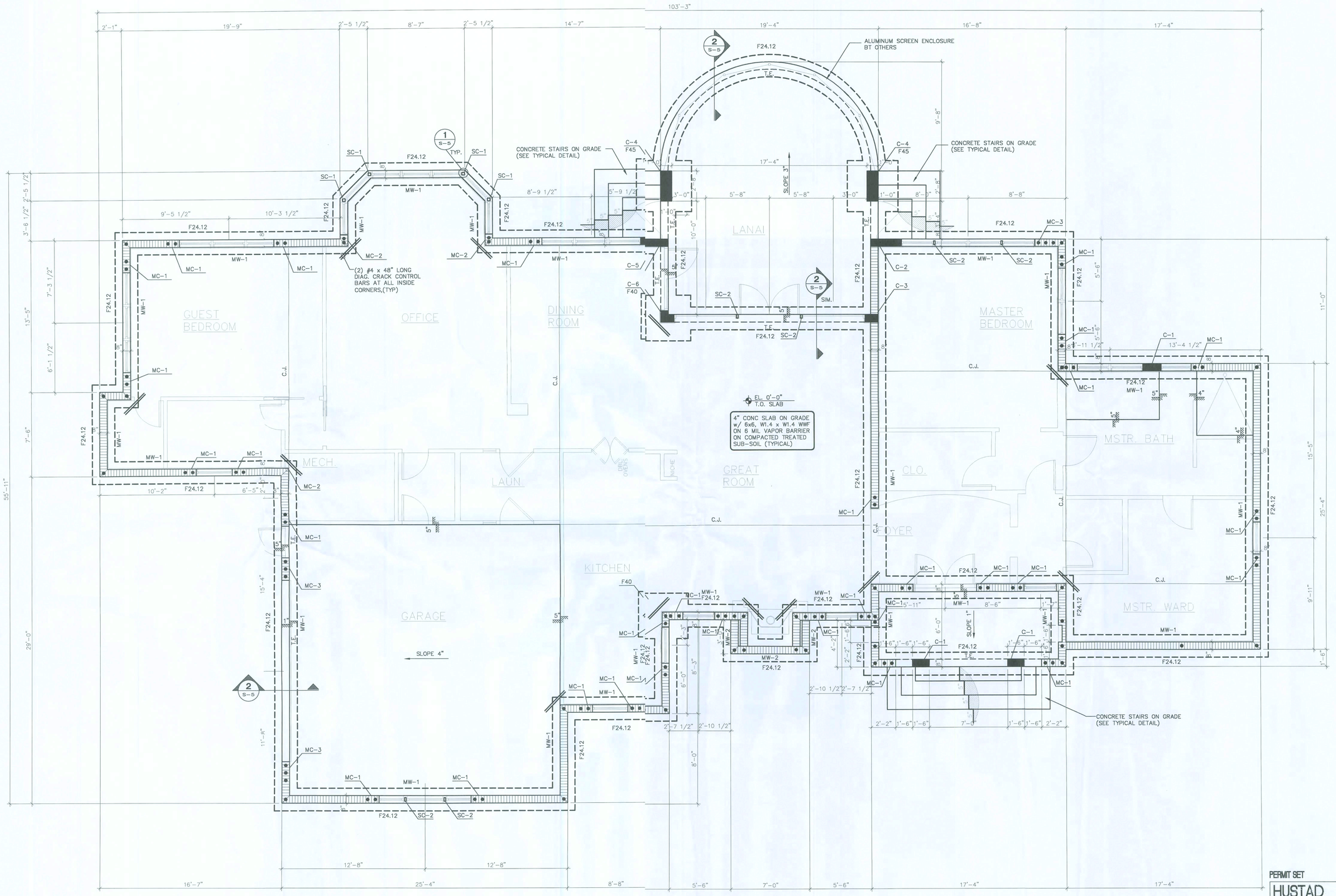
△	1-1-08	PERMIT ISSUE



FOUNDATION PLAN

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

PERMIT SET

HUSTAD CA 9843
STRUCTURAL ENGINEERING, LLC
756 VIA TOSCANA
WELLINGTON, FLORIDA 33414
(561) 798-7750 Office
(561) 798-7752 Fax
DAVID L. HUSTAD, P.E.
STRUCTURAL ENGINEER
FL PE LIC. #44996
FL SI LIC. #6986745
01/02/08

xx/xx/07

the lawrence group
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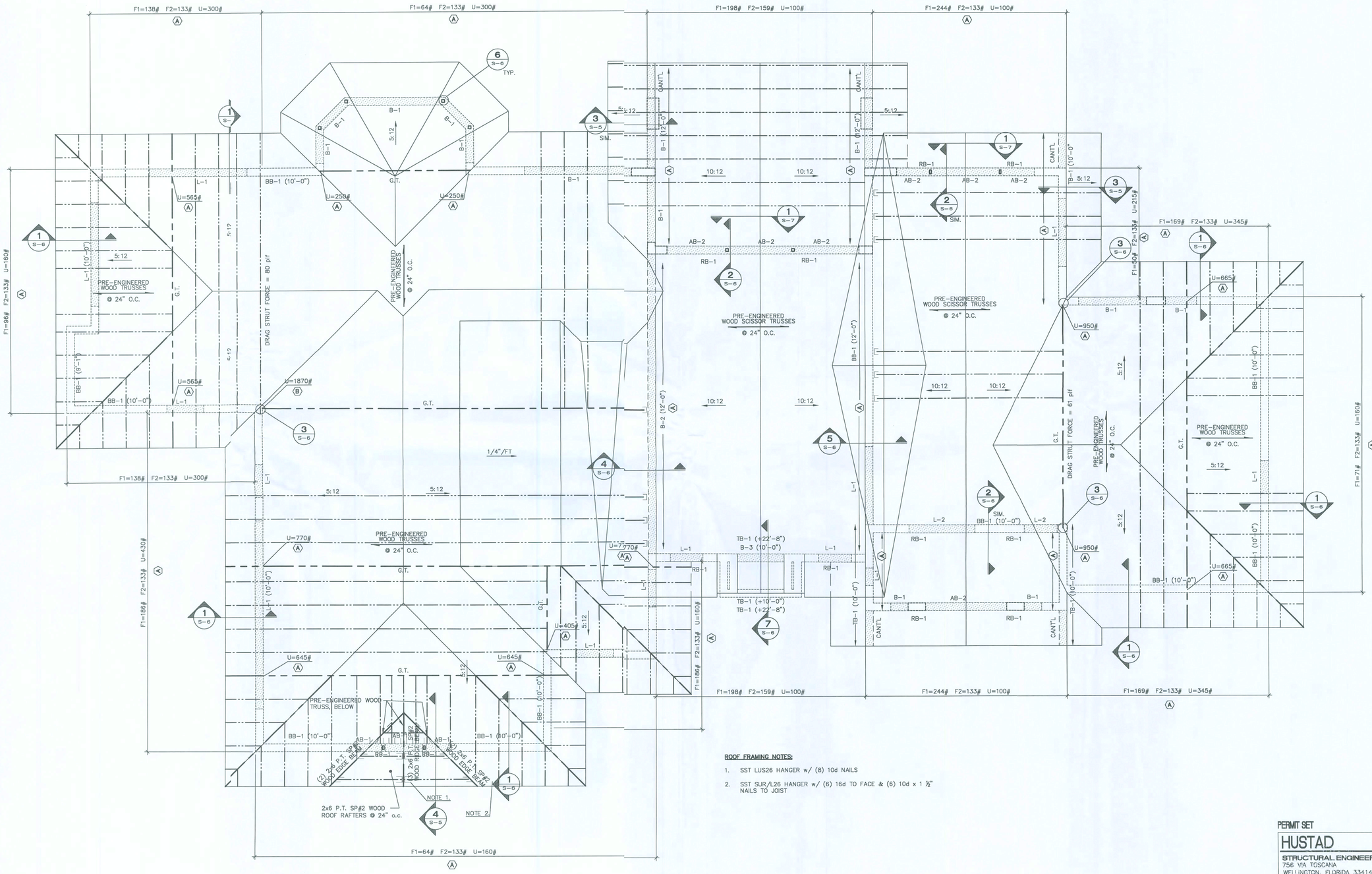
MR. AND MRS. WADE HORNSBY
COLUMBIA COUNTY FLORIDA

FOUNDATION PLAN
SCALE: AS NOTED

S-1

6004



ROOF FRAMING NOTES:

1. SST LUS26 HANGER w/ (8) 10d NAILS
2. SST SUR/L26 HANGER w/ (6) 16d TO FACE & (6) 10d x 1 ½" NAILS TO JOIST

ROOF FRAMING PLAN

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

PERMIT SET

HUSTAD CA 9843
STRUCTURAL ENGINEERING, LLC
756 VIA TOSCANA
WELLINGTON, FLORIDA 33414
(561) 798-7750 Office
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01/02/08

xx/xx/0

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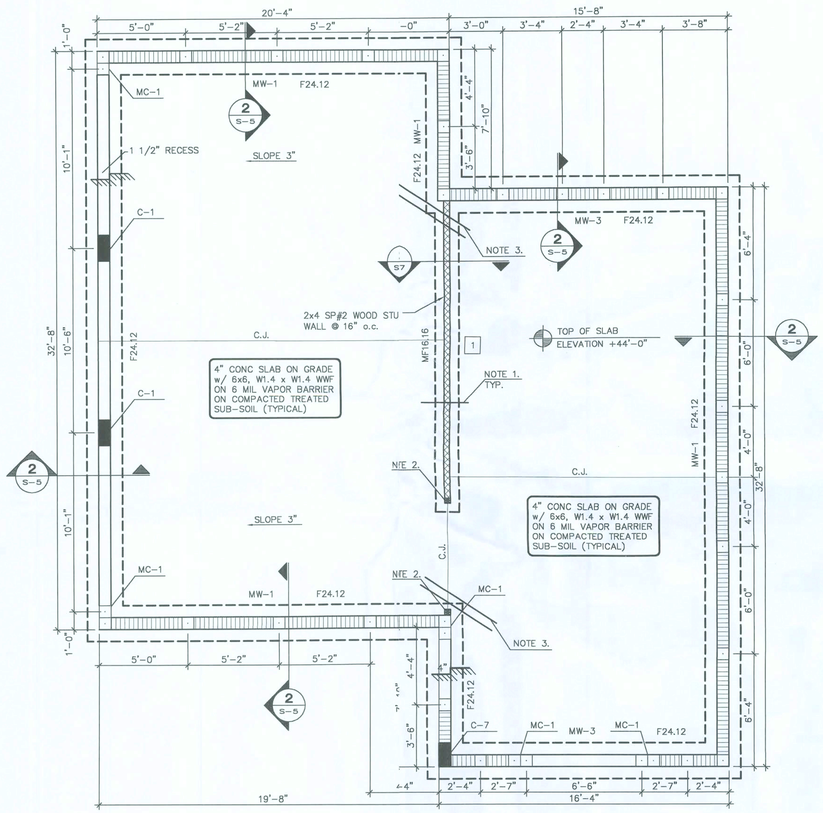
MR. AND MRS. WADE HORNSBY
COLUMBIA COUNTY FLORIDA

ROOF FRAMING PLAN

SCALE: AS NOTED

S-2

6004



FOUNDATION PLAN

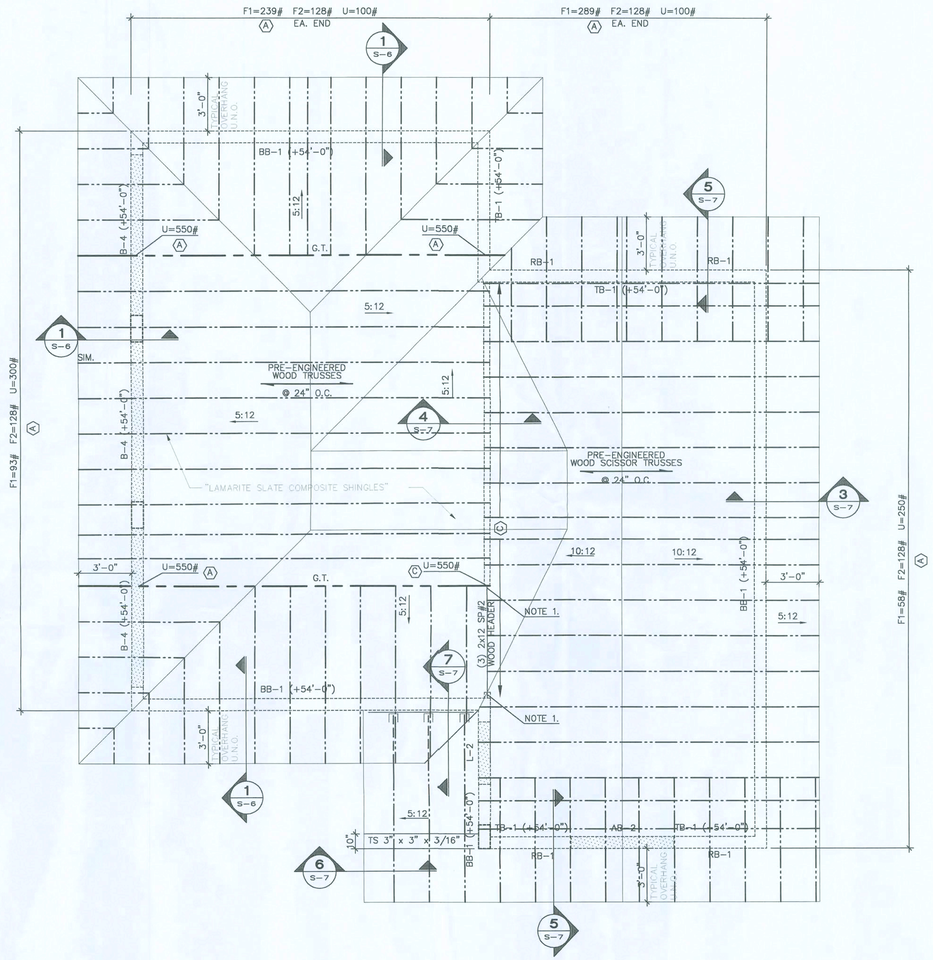
SCALE: 1/4"=1'-0"

FOUNDATION PLAN NOTES:

1.) #4 x 3'-0" LONG TOP TRANSFER BAR @ 4' o.c.

2.) (2) 2x4 SP#2 WOOD STUD COLUMNS w/ SS HTT16 w/ 5/8"~ EXP. ANCHOR x 0'-8" EMED & (18) 16d NAILS

3.) (2) #4 x 48" LONG CRACK CONTROL BARS @ INSIDE CORNERS, TYP.



ROOF FRAMING PLAN

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

ROOF FRAMING PLAN NOTES:

1.) SST ECCQ5-4SDS2.5 w/ (30) ¼" x 2½" SCREWS

PERMIT SET

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STRUCTURAL ENGINEERING, LLC
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WELLINGTON, FLORIDA 33414
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DAVID L. HUSTAD, P.E.
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01/02/08

xx/xx/07

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MR. AND MRS. WADE HORNSBY
COLUMBIA COUNTY FLORIDA

SHOP PLANS

SCALE: AS NOTED

S-3

6004

STRUCTURAL NOTES

CODES AND STANDARDS

1. WIND LOADS AS PER ASCE 7-05/EDITION, FOR A 110-MPH WIND SPEED, EXPOSURE B, 1.00 IMPORTANCE FACTOR, AND AN INTERIOR PRESSURE COEFFICIENT +0.18 AND -0.18.
2. THE PROJECT WAS DESIGNED IN ACCORDANCE WITH THE:
   A. FLORIDA BUILDING CODE 2004 EDITION, ENCLOSED.
   B. BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318/2005 EDITION).
   C. MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES (ACI 315/ 2005 EDITION).
   D. SPECIFICATION FOR THE DESIGN, FABRICATION & ERECTION OF STRUCTURAL STEEL FOR BUILDINGS. (AMERICAN INSTITUTE OF STEEL CONSTRUCTION) ASIC ASD/ 9TH EDITION.
   E. SPECIFICATION FOR STRUCTURAL CONCRETE FOR BUILDINGS, ACI 301/2005 EDITION.
   F. ASCE 7-05.
3. ARCHITECTURAL AND MECHANICAL DRAWINGS:
   A. THE STRUCTURAL DRAWINGS ARE PART OF THE CONTRACT DOCUMENTS AND DO NOT BY THEMSELVES PROVIDE ALL THE INFORMATION REQUIRED TO PROPERLY COMPLETE THE PROJECT STRUCTURE. THE GENERAL CONTRACTOR SHALL CONSULT THE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS AND COORDINATE THE INFORMATION CONTAINED IN THESE DRAWINGS WITH THE STRUCTURAL DRAWINGS TO PROPERLY CONSTRUCT THE PROJECT.
   B. REFER TO ARCHITECTURAL, MECHANICAL OR ELECTRICAL DRAWINGS FOR ADDITIONAL OPENINGS, DEPRESSIONS, FINISHES, INSERTS, BOLTS SETTINGS, DRAINS, REGLETS, ETC.
   C. BEFORE ORDERING ANY MATERIALS OR DOING ANY WORK, THE CONTRACTOR SHALL VERIFY ALL MEASUREMENTS TO PROPERLY SIZE OR FIT THE WORK. NO EXTRA CHARGE OR COMPENSATION WILL BE ALLOWED BY THE OWNER RESULTING FROM THE CONTRACTOR'S FAILURE TO COMPLY WITH THIS REQUIREMENT.
   D. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER BEFORE PROCEEDING WITH ANY WORK.
4. SECTIONS AND DETAILS:

ALL DETAILS, SECTIONS AND NOTES SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS ELSEWHERE UNLESS OTHERWISE SHOWN.

SPECIALTY ENGINEERED PRODUCTS

1. THE GENERAL CONTRACTOR IS RESPONSIBLE TO COORDINATE THE PROPER SUBMISSION OF SPECIALTY ENGINEERED SHOP DRAWINGS WHICH SHALL BE SIGNED AND SEALED BY AN ENGINEER REGISTERED IN THE STATE OF FLORIDA. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO ASSURE THAT THE SPECIALTY ENGINEERED SHOP DRAWINGS ARE SUBMITTED IN A TIMELY MANNER SO AS TO ALLOW REVIEWS AND RESUBMISSIONS AS REQUIRED. ALL SPECIALTY ENGINEERED PRODUCTS SHALL BE DESIGNED FOR THE APPROPRIATE GRAVITY LOADS AND WIND LOADS INCLUDING UPLIFT AND LATERAL LOADS. INTERIOR SPECIALTY PRODUCTS SHALL BE DESIGNED FOR LATERAL LOADS TO ASSURE STABILITY. SPECIALTY ENGINEERED PRODUCTS SHALL BE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
   A. LIGHT GAUGE METAL FRAMING INCLUDING, BUT NOT LIMITED TO, SOFFITS, CLADDING, CEILINGS, ETC.
   B. MISCELLANEOUS METALS INCLUDING STEEL STAIRS, MECHANICAL EQUIPMENT SUPPORTS, FRAMES THAT SUPPORT MACHINES, PIPES OR OTHER STRUCTURAL METAL USED FOR SUPPORT OF MECHANICAL SYSTEMS.
   C. MISCELLANEOUS HANGARS, METAL FRAMES, LADDERS, RIGGING, HANGING WALLS, METAL RAILINGS, GLAZING FRAMES, CLADDING SUCH AS STONE, PRECAST, ALUMINUM, METAL PANELS, CABLE BARRIER SYSTEMS, ETC. OR ANY OTHER MISCELLANEOUS PRODUCT REQUIRED BY THE ARCHITECTURAL OR MECHANICAL CONSTRUCTION DOCUMENTS.

FOUNDATION

1. ALL SITE PREPARATION AND EXCAVATION WORK IS TO BE PERFORMED IN STRICT ACCORDANCE WITH THE RECOMMENDATIONS WITHIN THE SOILS AND FOUNDATIONS INVESTIGATION REPORT PREPARED BY REGISTERED SOILS ENGINEER.
2. THE BUILDING SITE SHOULD BE EXCAVATED TO THE DEPTH AND EXTENT INDICATED IN THE SOILS REPORT. ALL SUBGRADES SHALL BE APPROVED IN WRITING BY THE SOILS ENGINEER PRIOR TO BACKFILLING.
3. BOTTOM OF FOOTINGS ASSUMED TO BEAR ON SOIL CAPABLE OF SAFELY SUPPORTING 2,500 PSF.
4. SOILS SUPPORTING ALL FOOTINGS MUST BE INSPECTED AND APPROVED BY A REGISTERED SOILS ENGINEER BEFORE COMMENCING WORK. APPROVAL IN WRITING MUST INDICATE THE SOIL IS ADEQUATE TO SAFELY SUSTAIN SPECIFIED SOIL BEARING PRESSURE.
5. TOP OF ALL EXTERIOR FOOTINGS SHALL BE MINIMUM 12-INCHES BELOW EXTERIOR FINISH GRADE.
6. EXCAVATION & BACKFILL:
   A. ALL EXCAVATION SHALL BE KEPT DRY. EXCAVATE TO DEPTHS AND DIMENSIONS INDICATED. TAKE EVERY PRECAUTION TO GUARD AGAINST ANY MOVEMENT OR SETTLEMENT OF ADJACENT STRUCTURES, UTILITIES, PIPING, ETC.
   B. PROVIDE ANY BRACING OR SHORING NECESSARY TO AVOID SETTLEMENT OR DISPLACEMENT OF EXISTING FOUNDATION OR STRUCTURES.
7. CENTERLINE OF FOOTINGS: SHALL COINCIDE WITH CENTERLINE OF COLUMNS UNLESS OTHERWISE NOTED ON DRAWINGS.
8. DIMENSIONS: ALL DIMENSIONS AND ELEVATIONS SHOWN ON THE STRUCTURAL DRAWINGS MUST BE VERIFIED AND COORDINATED WITH THE ARCHITECTURAL DRAWINGS BY THE CONTRACTOR BEFORE PROCEEDING WITH THE CONSTRUCTION. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT OR ENGINEER IN WRITING BEFORE PROCEEDING WITH ANY WORK.

CONCRETE

1. CONCRETE ELEMENTS TO HAVE THE FOLLOWING STRENGTHS:

A. FOUNDATIONS	3,000 PSI
B. SLAB-ON-GRADE	3,000 PSI
C. COLUMNS	3,000 PSI
D. BEAMS	3,000 PSI
E. TIE BEAMS	3,000 PSI
F. MASONRY GROUT	3,000 PSI

ALL OTHER CONCRETE TO BE 3,000 PSI UNLESS NOTED OTHERWISE.

2. ALL CONCRETE SHALL BE READY MIX, HAVE A MINIMUM COMPRESSIVE STRENGTH OF:
   A. 3,000 PSI @ 28 DAYS AND HAVE A MINIMUM OF 517 LBS. OF CEMENT PER CUBIC YARD.
   B. SLUMPS SHALL BE 4" MINIMUM AND 6" MAXIMUM.
   C. CONCRETE SHALL HAVE 2 PERCENT AIR ENTRAINMENT.
   D. ALL CONCRETE TO HAVE MAXIMUM WATER/CEMENT RATIO OF 0.55.
   E. JOBSITE WATER SHALL NOT BE ADDED.
3. ALL CONCRETE WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE ACI BUILDING CODE (ACI 318/ 2005 EDITION), THE ACI DETAILING MANUAL (ACI 315/ 2005 EDITION), AND THE SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS (ACI 301/2005 EDITION).
4. SUBMIT ALL REINFORCING STEEL SHOP DRAWINGS FOR APPROVAL PRIOR TO ANY FABRICATION.
5. CONCRETE COVER FOR REINFORCING STEEL SHALL BE AS REQUIRED BY THE 1995 ACI SPECIFICATIONS.
6. WELDED WIRE FABRIC SHALL COMPLY WITH ASTM A 185, UNLESS OTHERWISE SPECIFIED. PLACE FABRIC 2" CLEAR FROM TOP OF THE SLAB IN SLAB ON GRADE AND SUPPORT ON SLAB BOLSTERS SPACED AT 3'-0" O.C.
7. REQUIREMENTS:
   A. ALL REINFORCING STEEL SHALL BE MANUFACTURED FROM HIGH STRENGTH BILLET STEEL CONFORMING TO ASTM DESIGNATION A 615 GRADE 60.
8. LAP ALL BARS MINIMUM 48 DIAMETERS UNLESS OTHERWISE NOTED ON DRAWINGS. LAP ALL WWF A MINIMUM OF 6 INCHES (UNLESS OTHERWISE NOTED).
9. REINFORCING BARS:
   A. AT CORNERS OF CONCRETE WALLS, BEAMS AND CONTINUOUS WALL FOOTINGS, PROVIDE MATCHING HORIZONTAL BARS X 5'-0" BENT BAR FOR EACH HORIZONTAL BAR SCHEDULED AT EACH FACE.
   B. WHERE COLUMNS ARE AN INTEGRAL PART OF CONCRETE WALLS, WALL REINFORCEMENT SHALL BE CONTINUOUS THRU THE COLUMNS.
   C. ALL HOOKS SHOWN IN REINFORCEMENT SHALL BE ACI RECOMMENDED HOOKS UNLESS OTHERWISE NOTED.

CONCRETE ONT'D

9. REINFORCG BARS:
   D. CONTRAOR SHALL INCLUDE IN HIS BASE BID THE COST OF 2,500 LBS. OF ADDITIONAL #5 REINFORING STEEL, INCLUDING FABRICATION, BENDING, FURNISHING AND PLACING. THIS EXTRA OCK SHALL BE FURNISHED AND USED FOR SPECIAL CONDITIONS AS DIRECTED BY THERCHITECT, THE ARCHITECT'S AGENT OR BY THE OWNER'S CONSTRUCTION SUPERVOR. THE PRICE OF THE UNUSED EXTRA STOCK SHALL BE CREDITED TO THE OWNER' ACCOUNT.
10. CONSTRITION JOINTS IN STRUCTURAL SLABS AND BEAMS SHALL BE AT MID-SPAN AND KEY JOTED WITH REINFORCING CONTINUOUS ACROSS JOINT, AND ADDITIONAL SHEAR FRICTIOREINFORCING.

STEEL

1. ALL STRUTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST AC CODE. STRUCTURAL STEEL SHALL CONFORM TO:
   A. ASTM ECIFICATION A 36 FOR PLATES.
   B. ALL STL TUBING SHALL CONFORM TO ASTM SPECIFICATION A 500 GRADE B (FY=46 KSI).
   C. ASTM ECIFICATION A 992 GRADE 50 FOR BEAMS.
   D. ALL STL TO HAVE A SHOP COAT OF RUST INHIBITIVE PAINT.
   E. DELETE AINT ON ALL STEEL TO RECEIVE SPRAYED ON FIREPROOFING OR CONCRETE ENCASIENT.
   F. ALL MIL CAMBER TO BE ORIENTED UPWARD DURING FABRICATION AND ERECTION.
2. ALL SHO AND FIELD WELDING SHALL BE PERFORMED BY WELDERS QUALIFIED, AS DESCRIED IN "AMERICAN WELDING SOCIETY'S STANDARD QUALIFICATION PROCEDURE" (AWS D1.1), TPERFORM THE TYPE OF WORK REQUIRED.
3. ALL ALUNUM AND STEEL MEMBERS TO BE TREATED OR PROPERLY SEPARATED TO PREVENGALVANIC AND CORROSIVE EFFECTS.
4. ALL STEI WELDING RODS SHALL BE E70XX ELECTRODES.
5. SUBMIT L STEEL SHOP DRAWINGS FOR APPROVAL PRIOR TO ANY FABRICATION.
6. EQUIPME SUPPORTS:

PROVIDE AL SUPPORTING STEEL NOT INDICATED ON PLAN AS REQUIRED FOR THE INSTALLATION OF MECHANICAEQUIPMENT AND MATERIALS, INCLUDING ANGLES, CHANNELS, BEAMS, HANGERS, ETC. DO NOT SUPPO EQUIPMENT OR PIPING FROM METAL DECKING.

7. DECK SUPORTS:

PROVIDE 1/ BENT PLATES AT ALL HIPS, VALLEYS, SKEWED BEAMS AND OTHER AREAS FOR DECK SUPPORT.

MASONRY

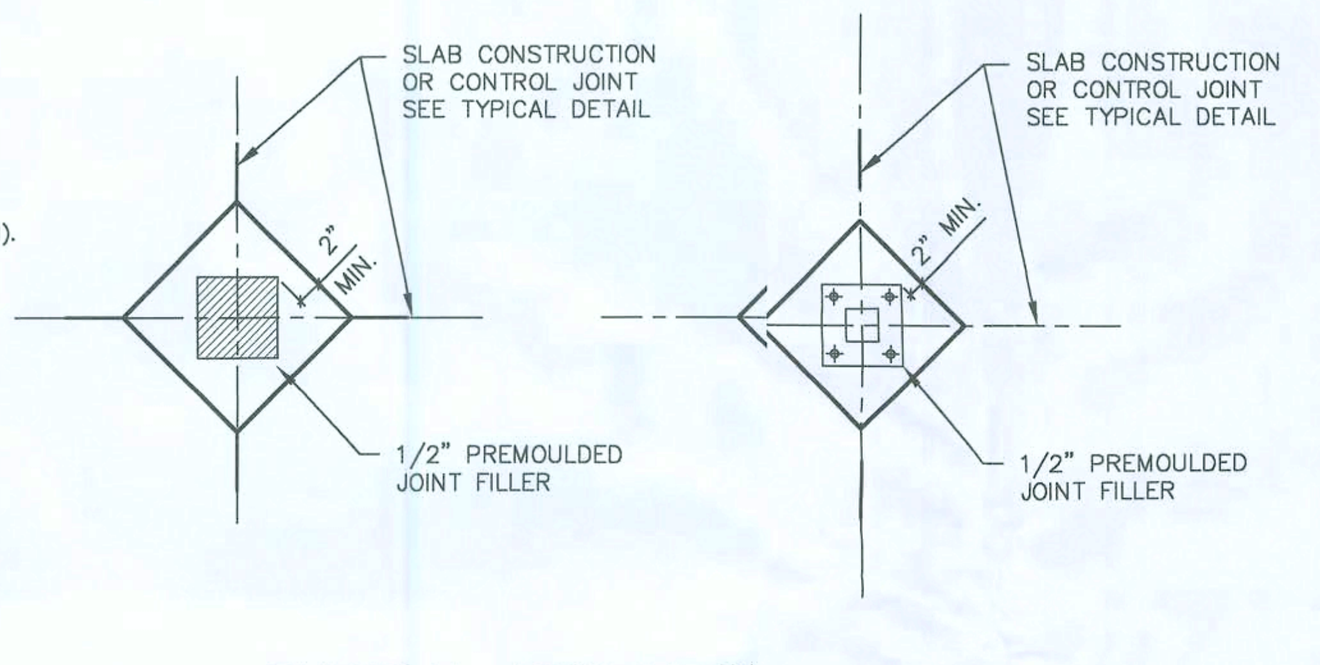
1. MASONRY NITS SHALL BE ASTM C 90 GRADE N WITH MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI N NET AREA OF INDIVIDUAL UNITS. ALL CMU SHALL BE LAID IN A FULL BED OF MORTAR IRUNNING BOND (U.N.O.).
2. FOLLOWINARE THE BLOCK STRENGTHS REQUIRED:
   A. ASTM C90 - 2,000 PSI ON NET AREA OF INDIVIDUAL UNITS
3. ALL MORTR SHALL BE TYPE S (OR TYPE M)
   A. IN ACCODANCE WITH ASTM SPECIFICATION C270
   B. WITH A NIMUM COMPRESSIVE STRENGTH OF 1,800 PSI AT 28 DAYS, (2500 WITH TYPE M).
4. GROUT SHLL BE A HIGH SLUMP MIX
   A. IN ACCODANCE WITH ASTM SPECIFICATION C476
   B. HAVING MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI
5. ALL CONCTE MASONRY BEARING AND SHEAR WALLS SHALL BE CONSTRUCTED AND INSCTED BY A QUALIFIED ENGINEER IN ACCORDANCE WITH THE "BUILDING CODE REQUIRENT FOR MASONRY STRUCTURES" (ACI 530/ASCE 5/TMS 402) AND "SPECIFICTIONS FOR MASONRY STRUCTURES" (ACI 530.1/ASCE 6/TMS 602)/ 2005 EDITIONS.
6. PROVIDE IT DIPPED GALVANIZED LADDER TYPE HORIZONTAL JOINT REINFORCEMENT (9 GA.) AT " ON CENTER VERTICAL IN ALL MASONRY WALLS. PROVIDE DOVE TAIL SLOT ANCHORSAT CONCRETE COLUMNS.
7. PROVIDE ONTROL JOINTS IN MASONRY WALLS AT A SPACING OF 50' + O.C. AND ALIGN WITH ARCTECTURAL CONTROL JOINTS.
8. EPOXY GRUT SHALL BE NON-SHRINK HIGH CREEP RESISTANT, AND SHALL HAVE THE FOLLOWIN MINIMUM ALLOWABLE PROPERTIES:
   TENSILE RENGTH, ASTM C 30: 1,500 PSI
   FLEXURASTRENGTH, ASTM C 580: 4,000 PSI
   COMPRESVE STRENGTH, ASTM C 579: 1,600 PSI/7 DAYS.

WOOD

1. ALL STUCTURAL WOOD MEMBERS ARE DESIGNED AS "DRY-USE". MOISTURE CONTET MUST BE 19% OR LESS. STORE WOOD FRAMING ABOVE GROUND AND UNDEFTARPS WITH PROPER AIR CIRCULATION.
2. ALL LUBER SHALL BE SOUTHERN PINE SPECIES #2 GRADE OR APPROVED EQUAL ALLOWABLE DESIGN STRESSES SHALL FOLLOW NATIONAL DESIGISPECIFICATION (NDS) (LATEST EDITION).
3. PROVIC SP BORATE PRESSURE TREATED LUMBER IN ACCORDANCE WITH AWPA STANDRDS TO A MINIMUM 0.40 PCF RETENTION WHERE LUMBER IS IN CONTACT WITH ONCRETE/MASONRY OR OUTSIDE OF BUILDING.
4. PLYWOD SHEATHING:
   A. OOF: Use 5/8" 40/20 RATED, EXP. 1, PLYWOOD SHEATHING.
   B. EE FRAMING PLANS FOR NAILING AND/OR BLOCKING REQUIREMENTS. JSE 8'- 0" LONG X 4'-0" WIDE SHEETS WITH LENGTH ACROSS FRAMING. STAGGER PANEL END JOINTS 4'-0" TYP., ALLOW 1/8" SPACE ALONG PANEL EDGES AND END JOINTS.
   C. EE FRAMING PLANS FOR DIAPHRAGM NAILING TYPE, SIZE, SPACING AND LOCATIONS.
5. WOOD ONNECTIONS - ALL NAILS USED FOR STRUCTURAL FRAMING MEMBERS SHALL BE COMON WIRE, U.N.O. ALL NAILS, TRUSS HANGERS, TRUSS ANCHORS AND STRAPS SHALBE SST3000 TYPE 316L STAINLESS STEEL OR EQUAL FOR CORROSIVE RESISNCE. ALL METAL STRAPS MUST BE INSTALLED WITH EQUAL LENGTHS ABOUT THE JNT LINE. USE SIMPSON STRONG-TIE CONNECTOR PRODUCTS OR APPROVED EQUAI TOE NAILING WILL NOT BE PERMITTED.

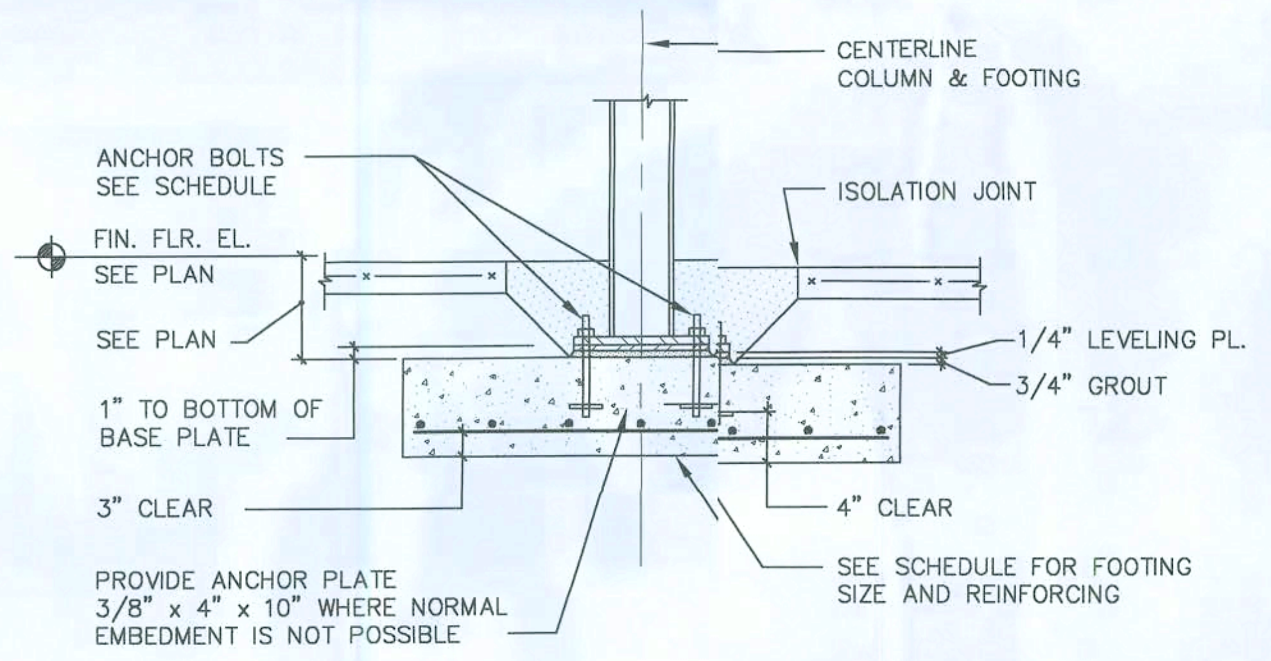
WOOD TRUSSES

1. WOOD ROOF TRUSSES:
   ARE TO BE DESIGNED FOR THE WOOD FABRICATATOR BY A PROFESSIONAL SPECIALTY ENGINEER REGISTERED IN THE STATETE OF FLORIDA. SEALED CALCULATIONS AND LAYOUT DRAWINGS ARE TO O BE SUBMITTED FOR APPROVAL. TRUSS FABRICATOR TO PROVIDE ALLLL TRUSS-TO-TRUSS HANGERS AS REQUIRED TO RESIST GRAVITY ANDND UPLIFT REACTION.
2. WOOD TRUSSES SHALL BE BRACED AND ERECTEDD IN ACCORDANCE WITH THE "TRUSS PLATE INSTITUTE" HANDLING, INSTALALLING AND BRACING OF WOOD TRUSSES: COMMENTARY AND RECOMMENDDATIONS, HIB (1991 EDITION). BRACING IN THE PLANE OF THE WEB B MEMBERS:
   A. THE TRUSS FABRICATOR SHALL PROVIDE AND LOCATE CONTINUOUS LATERAL BRACING FOR EACH TRUSS WEB MEMBER AS REQUIRED.
   B. LATERAL BRACING SHALL BE RESTRAINED BY DIAGONAL BRACING (MIN. 2" THICK NOMINAL LUMBER). THIS BRBRACING IS TO BE CONTINUOUS.
   C. A MINIMUM OF TWO ROWS OF DIAGONAL BRBRACING IS REQUIRED, ONE AT EACH VERTICAL WEB MEMBER CLOSEST T TO BEARING LOCATIONS.
3. THE BOTTOM CHORDS SHALL BE BRACED BY CONNTINUOUS LATERAL BRACING SPACED AT 8'-0" ON CENTER WITH A CEILING ATTACHED TO BOTTOM OF TRUSSES. IF NO CEILING IS ATTACHED TO BOTTOM OF TRUSSES, BRACING SHALL BE MINIMUM 2X4 @ 36" ON CENTER NAILED TO THE TOP OF THE BOTTOM CHORD. DIAGONALS PLACED AT 45 DEGREES TO THE LATERAL BRACES SHALL BE LOCATED AT EACH END. IF BUILDING EXCEEDS 60 FEET IN LENGTH, DIAGONAL BRACINNG SHOULD BE REPEATED AT 20 FOOT INTERVALS.
4. TOP CHORD BRACING:
   A. IF PLYWOOD DECKING IS APPLIED DIRECTLY TO TOP CHORD, PROPERLY LAPPED AND NAILED TO DEVELOP DIAPHRAGM ACTION, BRACING IS NOT REQUIRED.
   B. IF PURLINS ARE USED, DIAGONAL TOP CHORD BRACING IS REQUIRED AT EACH END. IF BUILDING EXCEEDS 60 FEET IN LENGTH, DIAGONAL BRACING SHOULD BE REPEATED AT 20-FOOT INTERVALS.
5. DO NOT CUT, DRILL OR NOTCH ROOF TRUSSES WITHOUT WRITTEN APPROVAL FROM TRUSS ENGINEER. COORDINATE MECHANICAL, ELECTRICAL, PLUMBING, ETC. SIZES AND LOCATIONS WITH TRUSS LAYOUT PRIOR TO ERECTION.
6. TRUSSES SHALL BE MANUFACTURED & DESIGNED IN ACCORDANCE WITH NATIONAL DESIGN SPECIFICATION(r) FOR WOOD CONSTRUCTION, AF & PA, AND NATIONAL DESIGN STANDARD FOR METAL PLATE CONNECTED WOOD TRUSS CONSTRUCTION, ANSI/TPI 1-1995, AND THE LOCAL CODE JURISDICTIONS.
7. DO NOT OVERLOAD ROOF TRUSSES WITH BUILDING MATERIALS.
8. CONNECTOR PLATES SHALL BE MANUFACTURED BY A WTCA MEMBER PLATE SUPPLIER AND SHALL MEET OR EXCEED ASTM A653/A653M REQUIREMENTS FOR STRUCTURAL STEEL.
9. WOOD TRUSS MANUFACTURER TO DESIGN BOTTOM CHORDS OF WOOD TRUSSES AT ALL ATTIC AREAS FOR A MINIMUM 10 PSF LIVE LOAD. BOTTOM CHORDS OF WOOD ATTIC TRUSSES TO BE DESIGNED FOR 30 PSF MINIMUM LIVE LOAD.



TYPICAL ISOLATION JOINTS CONCRETE AND STEEL

N.T.S.



TYPICAL STEEL COLUMN FOOTING

N.T.S.

CONCRETE COVER SCHEDULE

CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH:	3"
CONCRETE EXPOSED TO EARTH OR WEATHER:	
#6 OR LARGER	2"
#5 OR SMALLER	1 1/2"
CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:	
SLABS, WALLS, JOISTS (#11 AND SMALLER)	3/4"
BEAMS, COLUMNS (PRIMARY REINF., TIES, STIRRUPS, SPIRALS)	1 1/2"
CONCRETE FOR COASTAL CONSTRUCTION EXTERIOR CONDITIONS	
WALL & SLABS	2"
OTHER MEMBERS	2 1/2"

DESIGN LOAD SCHEDULE

WIND SPEED	110 MPH
TOTAL DEAD LOAD	25 PSF
TOTAL LIVE LOAD	30 PSF
TOTAL LOAD	55 PSF

METAL PLATE CONNECTED WOOD ROOF TRUSS CONNECTOR SCHEDULE

MARK	MANUFACTURER	MODEL DESIGNATION	STATE (FL) OR LOCAL APPROVAL NUMBER	STATE APPROVAL FILE (PDF) NAME OR OTHER REFERENCE DOCUMENT NAME	UPLIFT		LATERAL LOAD				FASTENERS	COMBINED STRESS INDEX
							PARALLEL TO TRUSS (F1)		PERPENDICULAR TO TRUSS (F2)			
					CALCULATED LOAD	ALLOWABLE CAPACITY	CALCULATED LOAD	ALLOWABLE CAPACITY	CALCULATED LOAD	ALLOWABLE CAPACITY		
Ⓐ	SIMPSON STRONG TIE CONNECTORS	HETAL 20	1901.21	NER469.PDF	770	1810	186	415	133	1100	(15) 10d x 1 1/2"	63%
Ⓑ	SIMPSON STRONG TIE CONNECTORS	(2) HETA20	1901.16	–	1870	2500	186	1055	133	1305	(14) 16d	78%
Ⓒ	SIMPSON STRONG TIE CONNECTORS	H10	1423.20	–	205	905	–	–	–	–	(16) 8d x 1 1/2"	23%

PLYWOOD SHEARWALL SCHEDULE

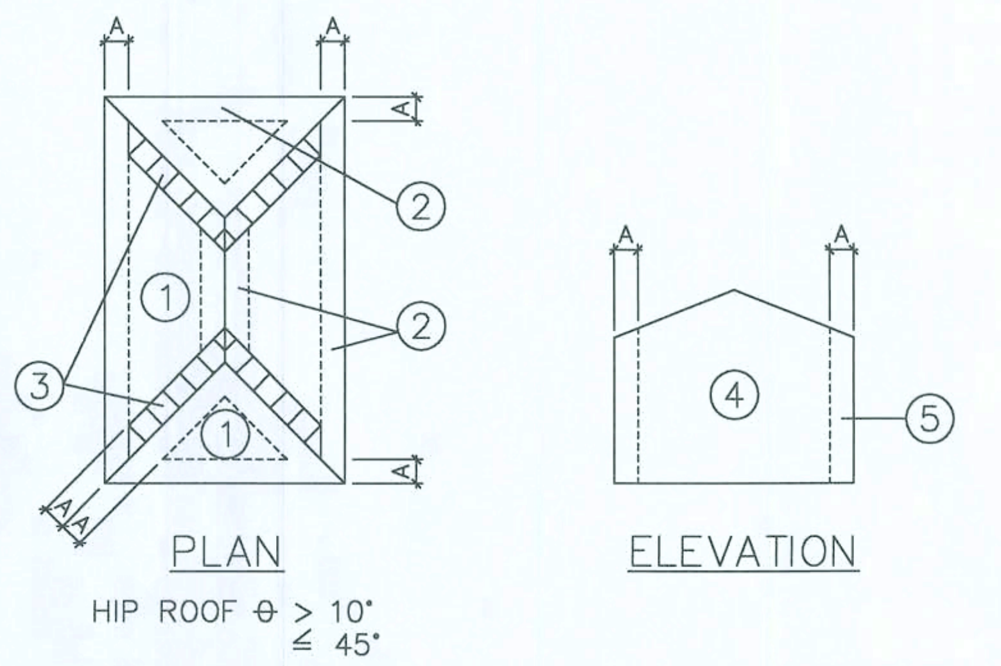
MARK	THICKNESS	GRADE	NAILING	STUDS	FLOOR SILL	FND. SILL	SHEARWALL END POST	HOLDDOWN 2nd/Fnd	ALLOW SHEAR (plf)
1	19/32" ONE SIDE	APA RATED 40/20, EXP. 1	10d NAILS @ 6" O.C. (FIELD) 10d NAILS @ 4" O.C. (EDGES)	2x4, #2 SP @ 16" O.C.	2x4 W/(2) ROWS OF 16d NAILS @ 9" O.C.	2x4 P.T. W/ 1/4"ø T.C. x 3" LONG W/ SST BP5/8-3 @ 8" O.C.	(2) 2x4, #2 SP	HTT22 W/ 12" EMBED	715

NOTES:
1) ALL PANEL EDGES BACKED WITH 2 INCH NOMINAL OR WIDER FRAMING.
2) ALL NAILS ARE COMMON, TYPICAL.
3) STRICKLY FOLLOW ALL SST MANUFACTURER'S GUIDELINES AND INSTRUCTIONS FOR INSTALLATION OF CONNECTORS.

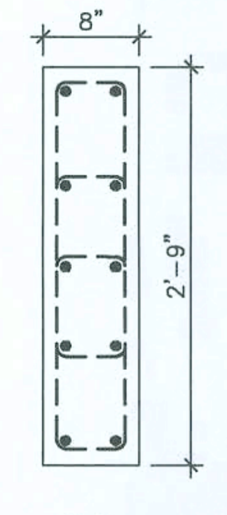
WIND LOAD SCHEDULE - FLAT ROOF

COMPONENTS & CLADDING	ROOF WIND LOADS			WALL WIND LOADS (SEE NOTE 1)	
	ROOF AREA (10 s.f.)			WALL AREA (50 s.f.)	
	①	②	③	④	⑤
PRESSURE (PSF)	+10.0	+10.0	+10.0	+19.5	+19.5
SUCTION (PSF)	-21.8	-36.5	-55.0	-21.3	-24.6

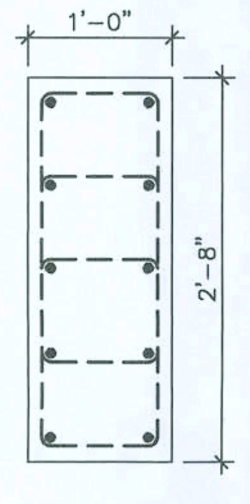
1. EXTERIOR GLAZED OPENINGS IN BUILDINGS SHALL COMPLY WITH FBC 2004 SECTION 1609 BY EITHER BEING DESIGNED FOR IMPACT RESISTANCE OR BEING PROTECTED BY IMPACT PROTECTIVE SYSTEMS.
2. CORNER DISTANCE, A = 5.0 FEET



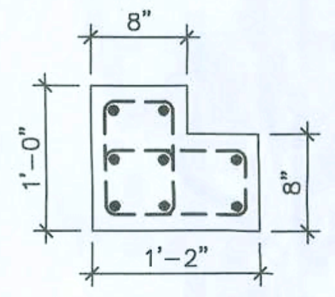
HIP ROOF θ > 10°
≤ 45°



C-2



C-4



C-6

DOOR & WINDOW WIND PRESSURE (PSF)

SIZE OF WALL OPENING (SQ. FT.)	WALL AREA	
	④	⑤
0-10	+21.8 / -23.6	+21.8 / -29.1
11-20	+21.6 / -23.5	+21.6 / -28.9
21-30	+20.7 / -22.6	+20.7 / -27.0
31-40	+20.2 / -22.0	+20.2 / -25.9
41-50	+19.8 / -21.6	+19.8 / -25.2
51-60	+19.5 / -21.3	+19.5 / -24.5
61-75	+19.2 / -21.1	+19.2 / -24.0
76-100	+18.9 / -20.7	+18.9 / -23.4
101-125	+18.5 / -20.3	+18.5 / -22.6
126-150	+18.2 / -20.0	+18.2 / -22.0
151-200	+17.9 / -19.8	+17.9 / -21.5

NOTES:
1. WIND DESIGN PER FLORIDA BUILDING CODE 2004 EDITION.
2. WIND LOADS AS PER ASCE 7-02/EDITION, FOR A 110-MPH WIND SPEED, EXPOSURE B, 1.00 IMPORTANCE FACTOR, AND AN INTERIOR PRESSURE COEFFICIENT +0.18 AND -0.18.
3. +: INDICATES WIND PRESSURE
   -: INDICATES WIND SUCTION
4. WALL DISTANCE A = 5.0 FT (COMPONENTS AND CLADDING)
5. FOR WALL OPENINGS BETWEEN THOSE GIVEN ABOVE THE LOAD MAY BE INTERPOLATED, OTHERWISE USE THE LOAD ASSOCIATED WITH THE LOWER WALL OPENING AREA.
6. EXTERIOR GLAZED OPENINGS IN BUILDINGS SHALL COMPLY WITH FBC-2004 BY EITHER BEING DESIGNED FOR IMPACT RESISTANCE OR BEING PROTECTED BY IMPACT PROTECTIVE SYSTEMS

ROOF SHEATHING NAILING SCHEDULE

NAIL SIZE	NAIL SPACING	ZONE
8d RING SHANK	6" @ EDGES, 6" @ INTERMEDIATE SUPPORTS	ROOF ① ②
8d RING SHANK*	4" @ EDGES, 6" @ INTERMEDIATE SUPPORTS	ROOF ③

CORNER DISTANCE, A = 5.0 FEET

STEEL COLUMN SCHEDULE

MARK	SIZE	BASE ℙ	EXP. ANCHORS	REM
SC-1	TS 3" x 3" x 3/16"	9x9x3/4"	(4) 5/8"ø EXP. ANCHOR x 0'-8" EMBED	DETAIL 1/S-5
SC-2	TS 4" x 2" x 3/16"	9x9x3/4"	(4) 5/8"ø EXP. ANCHOR x 0'-8" EMBED	DETAIL 1/S-5 (SIM)

FOOTING SCHEDULE

MARK	SIZE	REINFORCING	REM
F24.12	2'-0" x 12" x CONT.	3 #5 x CONT. & #4 TRANSVERSE BARS @ 24" o.c.	–
MF16.16	1'-4" x 16" x CONT.	3 #5 x CONT. BOTT.	–
F40	4'-0" x 4'-0" x 12"	(4) #5 EA. WAY TOP & BOTT.	–
F45	4'-6" x 4'-6" x 12"	(5) #5 EA. WAY TOP & BOTT.	–

CONCRETE/MASONRY COLUMN SCHEDULE

MARK	SIZE (inches)	VERT. REINF.	TIES	SPACING	REMARKS
C-1	8 x 18 (MIN)	6 #5	#3	@ 8" O.C.	CONC.
C-2	8 x 33	10 #5	#3	@ 8" O.C.	CONC.
C-3	8 x 14	4 #5	#3	@ 8" O.C.	CONC.
C-4	12 x 32	10 #6	#3	@ 10" O.C.	CONC.
C-5	8 x 24	8 #5	#3	@ 8" O.C.	CONC.
C-6	SEE DETAIL	8 #5	#3	@ 8" O.C.	CONC.
C-7	8 x 16	6 #5	#3	@ 8" O.C.	CONC.
MC-1	8 x 16	2 #5	–	–	MASONRY
MC-2	8 x 12 "0" BLOCK	2 #5	–	–	MASONRY
MC-3	8 x 24	3 #5	–	–	MASONRY

BEAM SCHEDULE

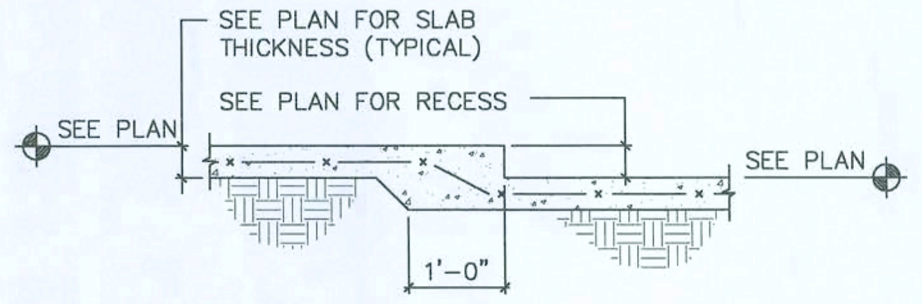
MARK	SIZE BxH (inches)	REINFORCING			STIRRUPS		REMARKS
		BOTT	TOP	INT	TIES	SPACING	
B-1	8 x 22	2 #5	2 #5	2 #5	#3	@ 8" O.C.	–
B-2	8 x 24	2 #7 2 #7	2 #5	2 #5	#3	@ 10" O.C.	–
B-3	8 x 16	2 #5	2 #5	–	#3	@ 8" O.C.	–
B-4	8 x 28 (MIN)	2 #5	2 #5	2 #5	#3	@ 8" O.C.	–
AB-1	8 x 10	2 #5	2 #5	–	#3	@ 8" O.C.	ARCH BEAM
AB-2	8 x 16 (MIN)	2 #5	2 #5	–	#3	@ 8" O.C.	ARCH BEAM
RB-1	8 x 12 (MIN)	–	–	2 #5	#3	@ 24" O.C.	RAKE BEAM
TB-1	8 x 16	2 #5	2 #5	–	#3	@ 24" O.C.	TIE BEAM
BB-1	8 x 16	1 #5	1 #5	–	–	–	BOND BEAM
L-1	8 x 24	1 #5	1 #5	–	–	–	8F24 1B/1T
L-2	8 x 12	1 #5	1 #5	–	–	–	8F12 1B/1T

NOTES :
1. BEAM CONCRETE TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 P.S.I. AT 28 DAYS.
2. ALL LINTELS SHALL BE MANUFACTURED BY "CASTCRETE"

MASONRY WALL SCHEDULE

MARK	THICKNESS	REINFORCING
MW-1	8" CMU	#5 @ 6'-0" o.c.
MW-2	8" CMU	#5 @ 0'-8" o.c.
MW-3	8" CMU	#5 @ 3'-4" o.c.

MASONRY WALL NOTES:
1. WALL SEGMENTS SHALL BE REINFORCED WITH 9 GA. GALVANIZED LATERAL REINFORCING @ 16" O.C. HORIZ. EXTEND REINFORCING 6" INTO POURED ELEMENTS AND AROUND ENCASED STEEL.
2. ADJACENT TO ANY EXTERIOR WALL OPENING, PLACE (1) SCHEDULED REBAR VERTICAL IN CELL GROUTED SOLID, FULL HEIGHT.
3. ALL MASONRY REINFORCED CELLS SHALL BE FILLED WITH 3000 PSI GROUT MIX.
4. SOLID GROUT ALL CELLS BELOW GRADE, TYP.
5. SPECIAL INSPECTION IS REQUIRED FOR ALL MASONRY CONSTRUCTION.
6. ALL MASONRY BLOCKS MUST BE SAWCUT IN THE FIELD, IN A GOOD WORKMANSHIP LIKE MANNER.



TYPICAL SLAB RECESS

N.T.S.

PERMIT SET

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xx/xx/07

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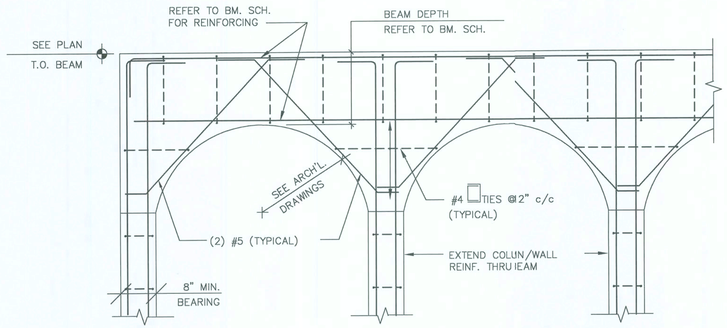
MR. AND MRS. WADE HORNSBY
COLUMBIA COUNTY
FLORIDA

NOTES, SCHEDULES & DETAILS
SCALE: AS NOTED

S-4

6004



TYPICAL ARCHED BEAM/ CONC. COLUMN DETAIL

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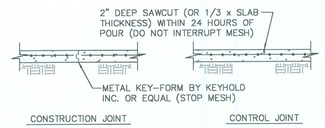
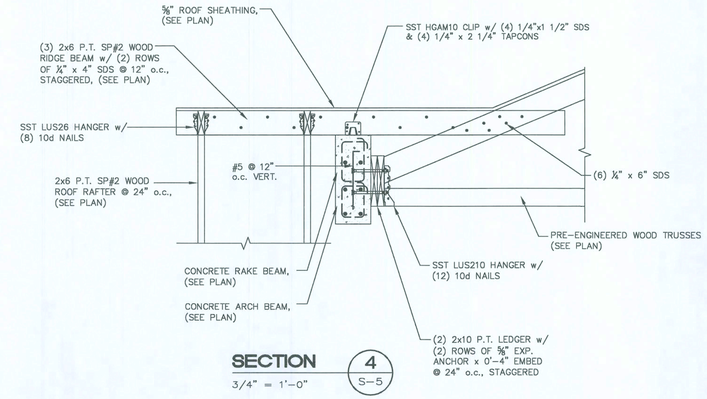


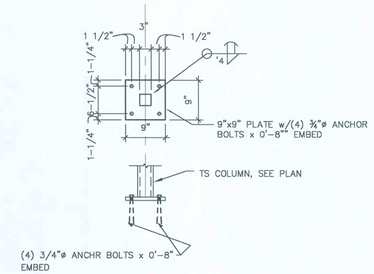
TYPICAL SLAB-ON-GRADE

NOTE: CONTROL JOINTS/CONSTRUCTION JOINTS SHALL CREATE PANELS OF 400 SQ. FEET (MAXIMUM)

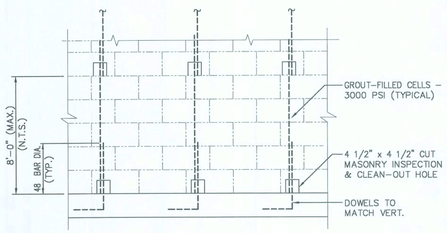
N.T.S.



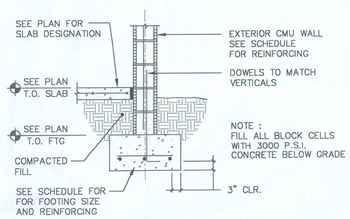
SECTION 4 / S-5
3/4" = 1'-0"



SECTION 1 / S-5
3/4" = 1'-0"

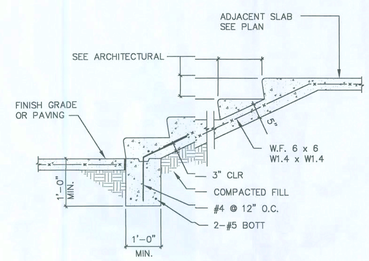


TYPICAL MASONRY FILLED CELL DETAIL



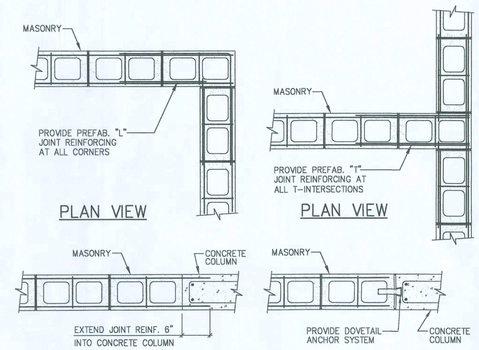
TYPICAL EXTERIOR WALL FOOTING

N.T.S.



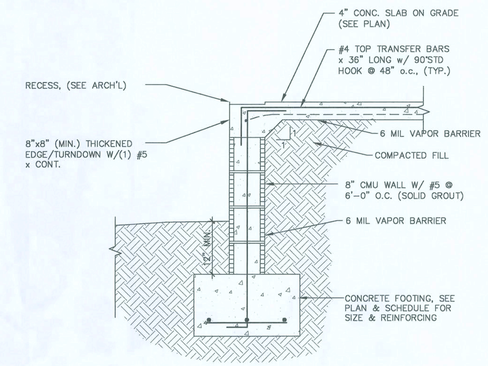
TYPICAL CONCRETE STAIR ON GRADE

N.T.S.

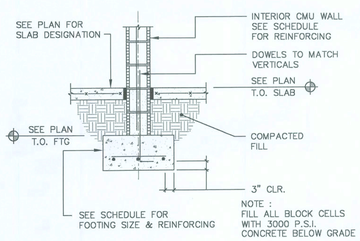


TYPICAL MASONRY DETAILS

N.T.S.

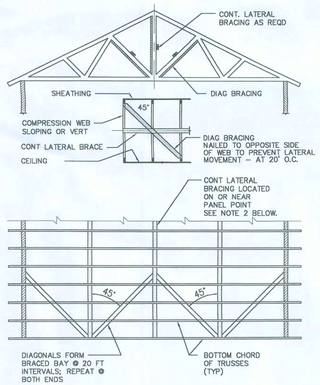


SECTION 2 / S-5
3/4" = 1'-0"



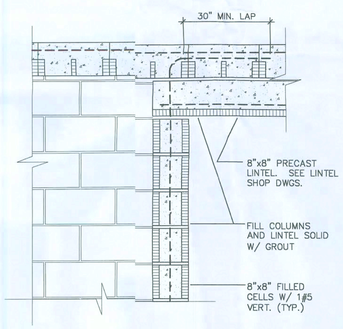
TYPICAL INTERIOR WALL FOOTING

N.T.S.



1. WOOD TRUSSES SHALL BE BRACED AND ERECTED IN ACCORDANCE WITH THE "TRUSS PLATE INSTITUTE" BRACING WOOD TRUSSES: COMMENTARY AND RECOMMENDATIONS, HIB-91, BRACING IN THE PLAN OF THE WEB MEMBERS :
   a. THE TRUSS FABRICATOR SHALL PROVIDE AND LOCATE CONTINUOUS LATERAL BRACING FOR EACH TRUSS WEB MEMBER AS REQUIRED.
   b. LATERAL BRACING SHALL BE RESTRAINED BY DIAGONAL BRACING (MIN. 2" THICK NOMINAL LUMBER). THIS BRACING IS TO BE CONTINUOUS.
   c. A MINIMUM OF TWO ROWS OF DIAGONAL BRACING IS REQUIRED, ONE AT EACH VERTICAL WEB MEMBER CLOSEST TO BEARING LOCATIONS.
2. THE BOTTOM CHORDS SHALL BE BRACED BY CONTINUOUS LATERAL BRACING SPACED AT 8'-0" O. C. WITH A CEILING ATTACHED TO BOTTOM OF TRUSSES. OR IF NO CEILING IS ATTACHED TO BOTTOM OF TRUSSES BRACING SHALL BE MIN. 2 x 4 @ 36" O.C. NAILED TO THE TOP OF THE BOTTOM CHORD. DIAGONALS PLACED AT 45° TO THE LATERAL BRACES SHALL BE LOCATED AT EACH END. IF BUILDING EXCEEDS 60 FEET IN LENGTH, DIAGONAL BRACING SHOULD BE REPEATED AT 20 FOOT INTERVALS.
3. TOP CHORD BRACING :
   a. IF PLYWOOD DECKING IS APPLIED DIRECTLY TO TOP CHORD, PROPERLY LAPPED AND NAILED TO DEVELOP DIAPRAGHM ACTION, BRACING IS NOT REQUIRED.
   b. IF PURLINS ARE USED, DIAGONAL TOP CHORD BRACING IS REQUIRED AT EACH END. IF BUILDING EXCEEDS 80 FEET IN LENGTH, DIAGONAL BRACING SHOULD BE REPEATED AT 20 FOOT INTERVALS.

WOOD TRUSS BRACING DETAIL



TYPICAL LINTELL ON COLUMN DETAIL

N.T.S.

(WINDOW & DOOR OPENINGS 7'-0" WIDE AND LARGER)
2" X P.T. BUCK W/ 1/4"ø X 1 1/4" CONC. EMBEDMENT TAPCON W/ 1"ø WASHER AT 8"o.c., START 3" FROM CORNERS.

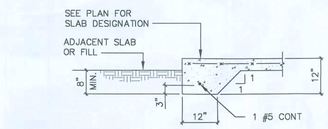
(WINDOW & DOOR OPENINGS 6'-6" WIDE AND SMALLER)
2" X P.T. BUCK W/ 1/4"ø X 1 1/4" CONC. EMBEDMENT TAPCON W/ 1"ø WASHER AT 12"o.c., START 3" FROM CORNERS.

BUCKS TO BE FASTENED HORIZONTALLY AND VERTICALLY TO CONCRETE BEAMS AND COLUMNS OR CONCRETE FILLED MASONRY.

G.C. TO COORDINATE OPENING DIMENSIONS.

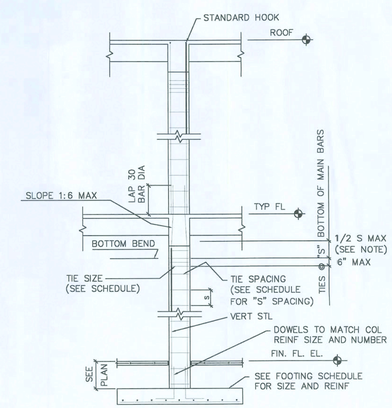
TYPICAL WOOD BUCK TO CONCRETE CONNECTION DETAIL

1. EXTERIOR GLAZED OPENINGS IN BUILDINGS SHALL COMPLY WITH FBC 2004, SECTION 1609 BY EITHER BEING DESIGNED FOR IMPACT RESISTANCE OR BEING PROTECTED BY IMPACT PROTECTIVE SYSTEMS.



THICKENED EDGE (T.E.)

N.T.S.

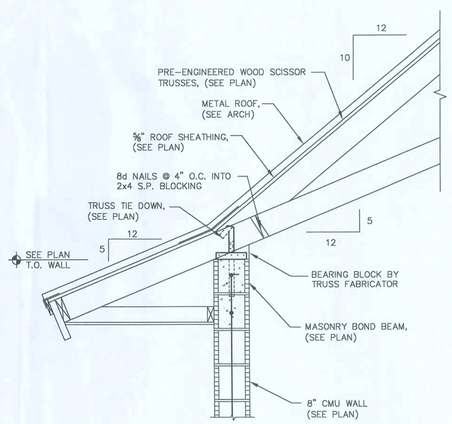


NOTE:

1. ADD EXTRA TIES IF THE DISTANCE BETWEEN BOTTOM LAYER OF SLAB REINFORCEMENT AND LOWER POINT OF OFFSET BENT IS MORE THAN 1/2 S (HALF SCHED. TIES SPACING).

TYPICAL CONCRETE COLUMN DETAIL

N.T.S.



SECTION 3 / S-5
3/4" = 1'-0"

PERMIT SET

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STRUCTURAL ENGINEERING, LLC
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01/02/08

xx/xx/07

the lawrence group
ARCHITECTS 205 WORTH AVENUE, PALM BEACH, FLORIDA 33480 P.H. (561) 655-0670

MR. AND MRS. WADE HORNSBY
COLUMBIA COUNTY FLORIDA

SECTIONS & DETAILS
SCALE: AS NOTED

S-5

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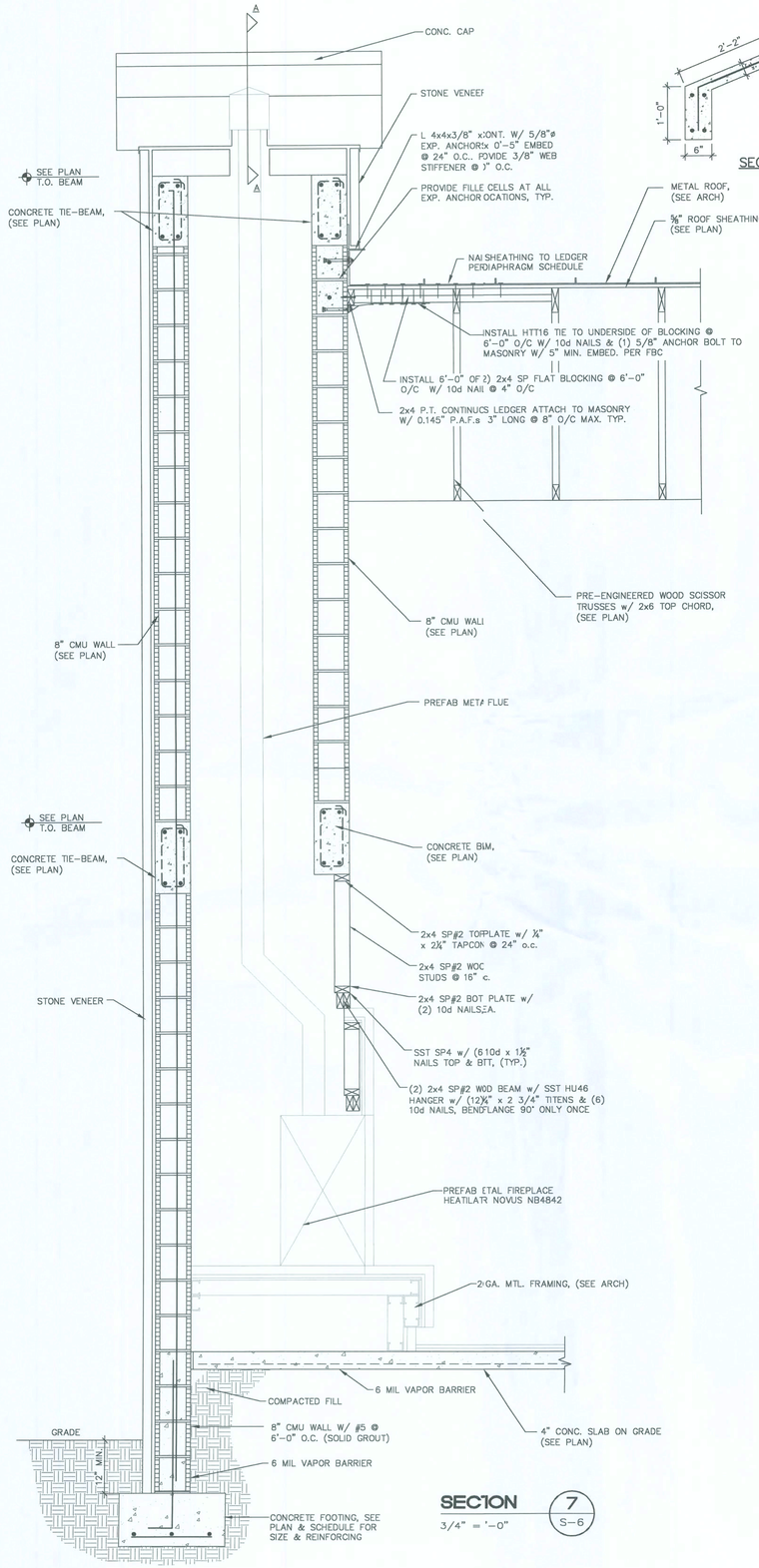
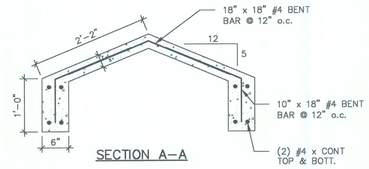
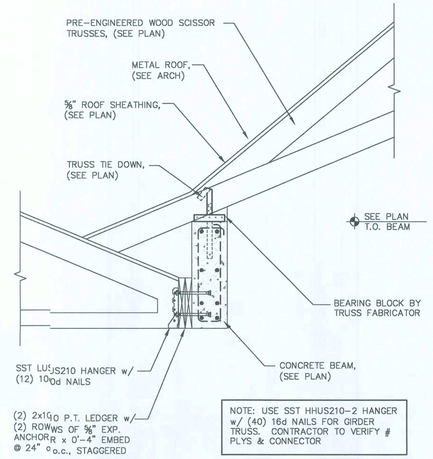


SECTION 7
3/4" = '-0"

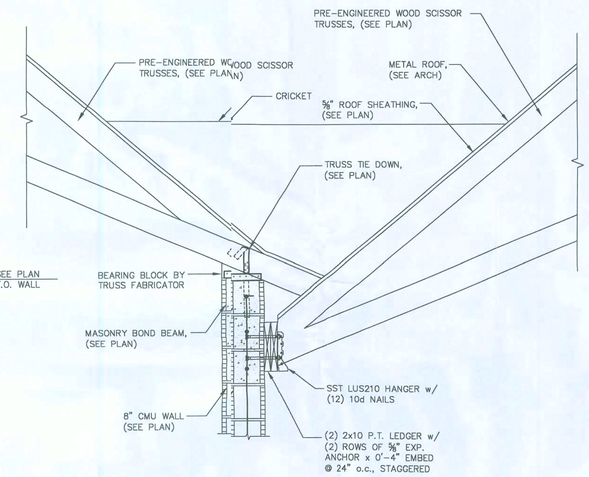


SECTION A-A

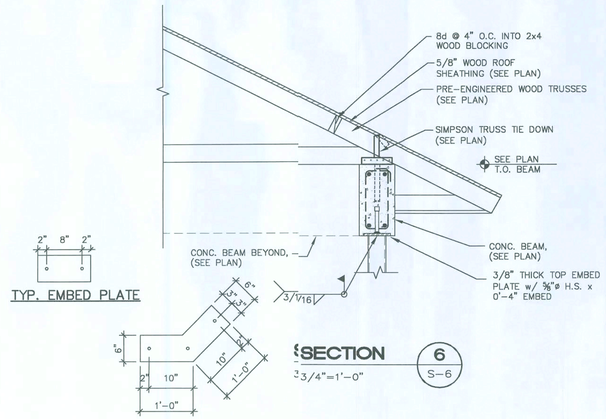


NOTE: USE SST HHUS210-2 HANGER w/ (40) 16d NAILS FOR GIRDER TRUSS. CONTRACTOR TO VERIFY # PLYS & CONNECTOR

SECTION 4
3/4" = 1'-0"

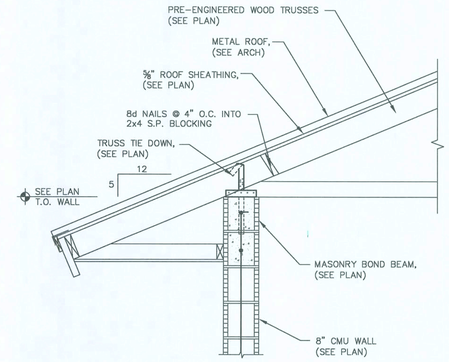


SECTION 5
3/4" = 1'-0"

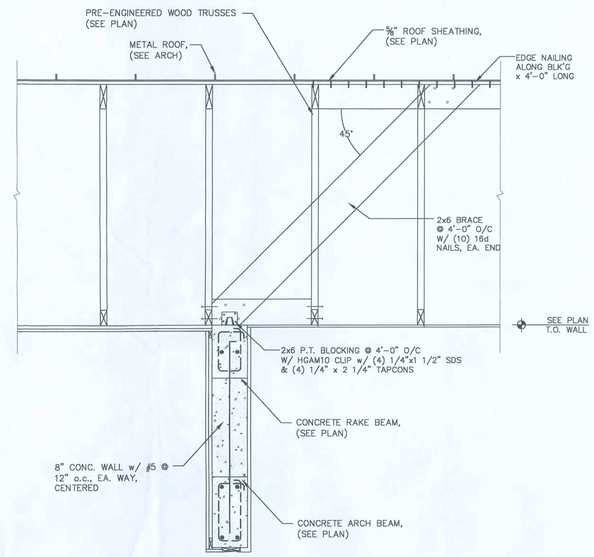


TYP. EMBED PLATE

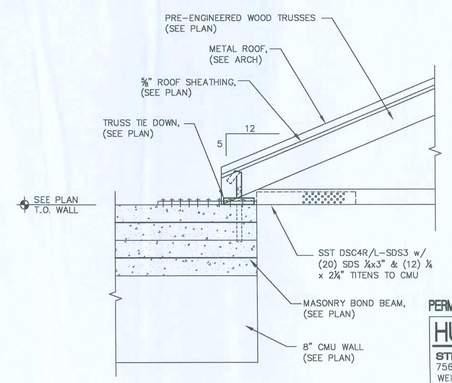
SECTION 6
3/4"=1'-0"



SECTION 1
3/4" = 1'-0"



SECTION 2
3/4" = 1'-0"



SECTION 3
3/4" = 1'-0"

PERMIT SET

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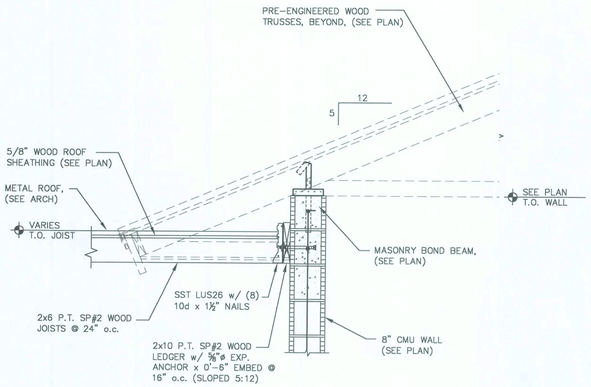
COLUMBIA COUNTY FLORIDA

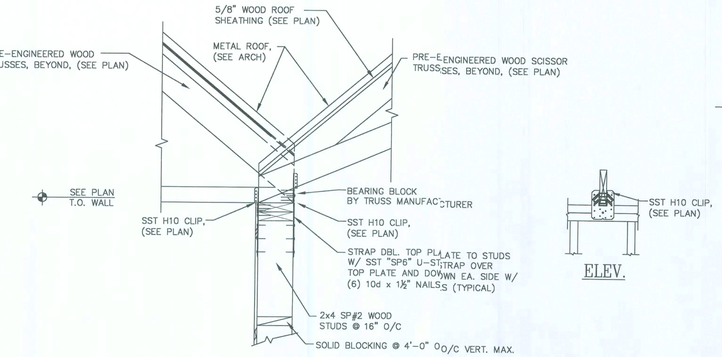
SECTIONSS & DETAILS
SCALE: AS NOTED

S-6

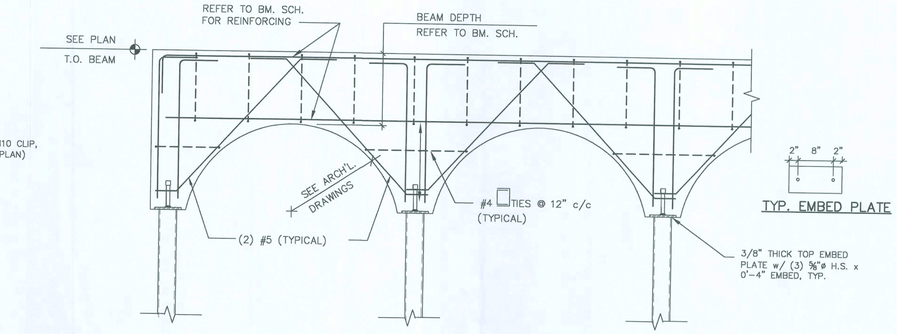
6004



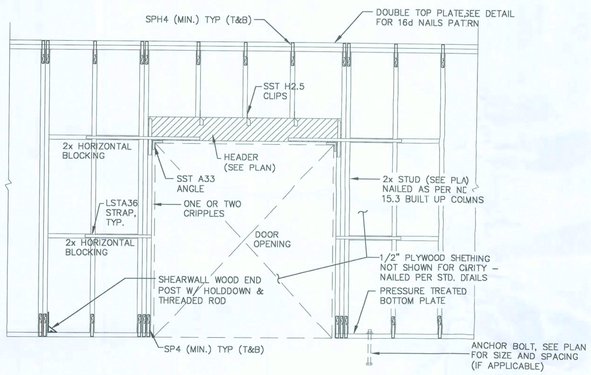
SECTION 7 (S-7)
3/4"=1'-0"



SECTION 4 (S-7)
3/4"=1'-0"

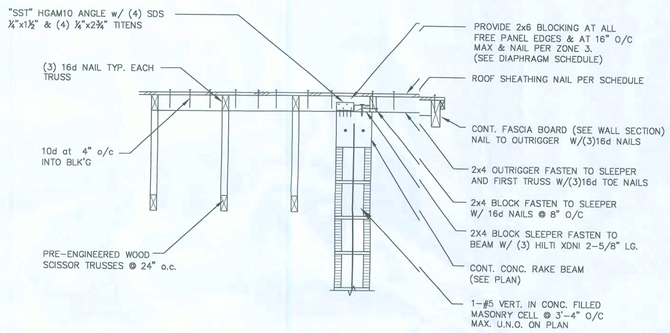


SECTION 1 (S-7)
3/4"=1'-0"



TYPICAL WOOD SHEARWALL FRAMING AT OPENING

N.T.S.



SECTION 5 (S-7)
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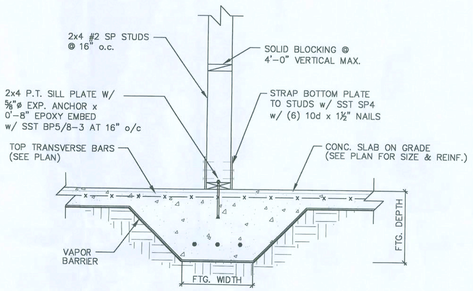
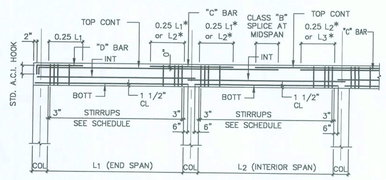


SECTION 2 (S-7)
3/4"=1'-0"



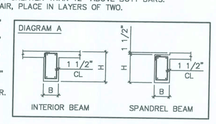
"C" BAR : TOP BAR AT INTERIOR SUPPORT (IN ADDITION TO TOP CONT BARS) PLACE IN SAME LAYER AS TOP CONT BARS (U.O.N.). LOCATE AT RIGHT SUPPORT OF SPAN INDICATED IN SCHEDULE.

"D" BAR : TOP BAR AT EXTERIOR SUPPORT (IN ADDITION TO TOP CONT BARS) PLACE IN SAME LAYER AS TOP CONT BARS (U.O.N.).

"INT" BARS : INTERMEDIATE BARS LOCATED AT A SPACING EQUAL TO THE WIDTH OF THE BEAM BUT NOT GREATER THAN 12" ABOVE BOTT BARS. IF MORE THAN ONE PAIR, PLACE IN LAYERS OF TWO.

CLASS "B" TENSION SPLICE (3000 PSI CONCRETE)				
	#4	23"	#8	72"
	#5	29"	#9	80"
	#6	35"	#10	91"
	#7	63"	#11	101"

* WHICHEVER IS GREATER.



NOTES :

WHEN ADJACENT BEAMS OR TIE BEAMS HAVE TOP CONT BARS OF DIFFERENT SIZE, THE TRANSITION SHOULD BE MADE AT MIDSPAN OF THE BEAM WITH SMALLER SCHEDULED BARS. USE LAP SPLICE LENGTH OF SMALLER SIZE BAR.

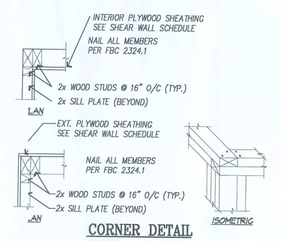
(2L) - INDICATES BARS PLACE IN TWO LAYERS. WHERE BARS ARE PLACED IN TWO LAYERS, THE SECOND LAYER BARS MUST BE PLACED DIRECTLY UNDER BARS IN THE FIRST LAYER (IF TOP BAR) OR DIRECTLY OVER BAR IN THE FIRST LAYER (IF BOTT BAR). PROVIDE 1" CLEAR DISTANCE BETWEEN LAYERS OR ONE BAR DIAMETER, WHICHEVER IS THE GREATER DISTANCE.

SCHEDULED BEAM SIZES : [SEE DIAGRAM A]

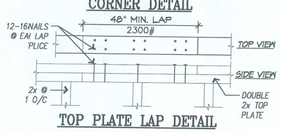
"B" INDICATES BEAM WIDTH DIMENSION. WHEN BEAM IS OVER A BLOCK WALL, USE ACTUAL BLOCK WIDTH (7 5/8" or 11 5/8").
"H" INDICATES BEAM DEPTH DIMENSION. LESS 1 1/2" FOR RECESS FOR BLOCK WALL
DEDUCTED WHERE APPLICABLE, OR MINIMUM DEPTH IN A VARIABLE DEPTH BEAM.
COORDINATE BEAM CONFIGURATION WITH ARCHITECTURAL DRAWINGS.

TYPICAL BEAM BAR PLACEMENT DIAGRAM

N.T.S.



CORNER DETAIL



TOP PLATE LAP DETAIL

TPICAL TOP PLATE DETAIL

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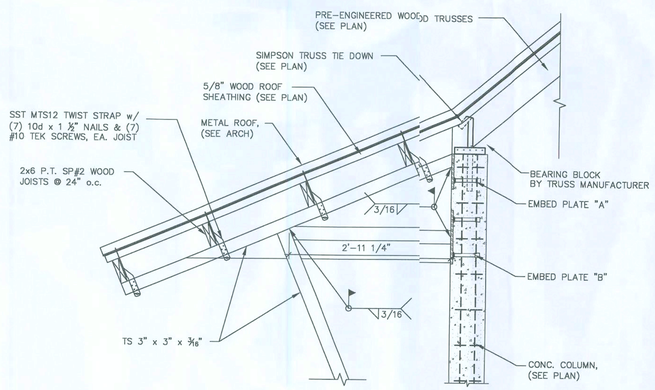
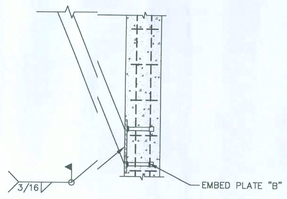




SECTION 6 (S-7)
3/4"=1'-0"

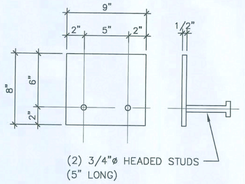


PLATE "A"

1 1/2"=1'-0"

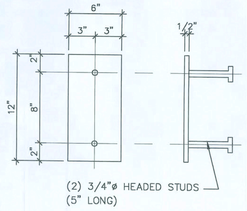
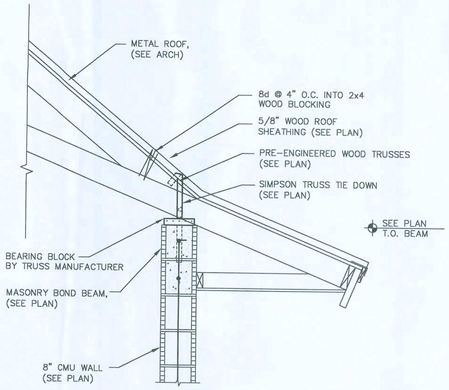


PLATE "B"

1 1/2"=1'-0"



SECTION 3 (S-7)
3/4"=1'-0"

PERMIT SET

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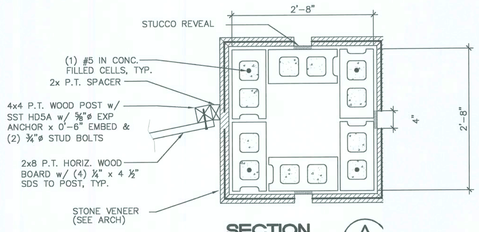
COLUMBIA COUNTY FLORIDA

SECTIONS & DETAILS

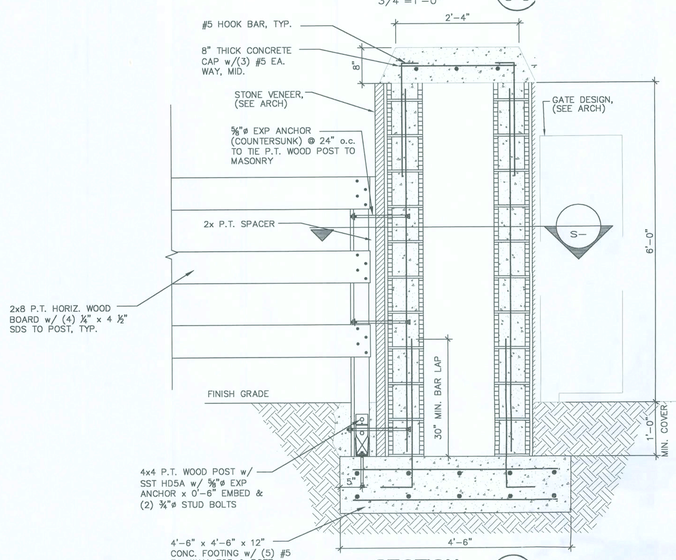
SCALE: AS NOTED

S-7

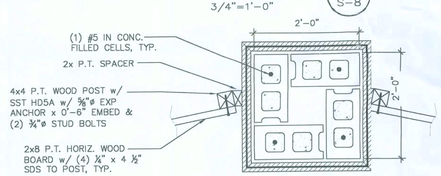
6004



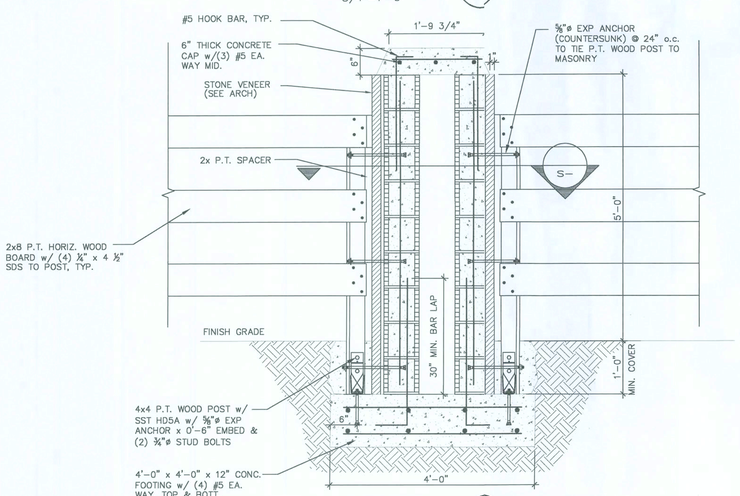
SECTION A / S-8
3/4"=1'-0"



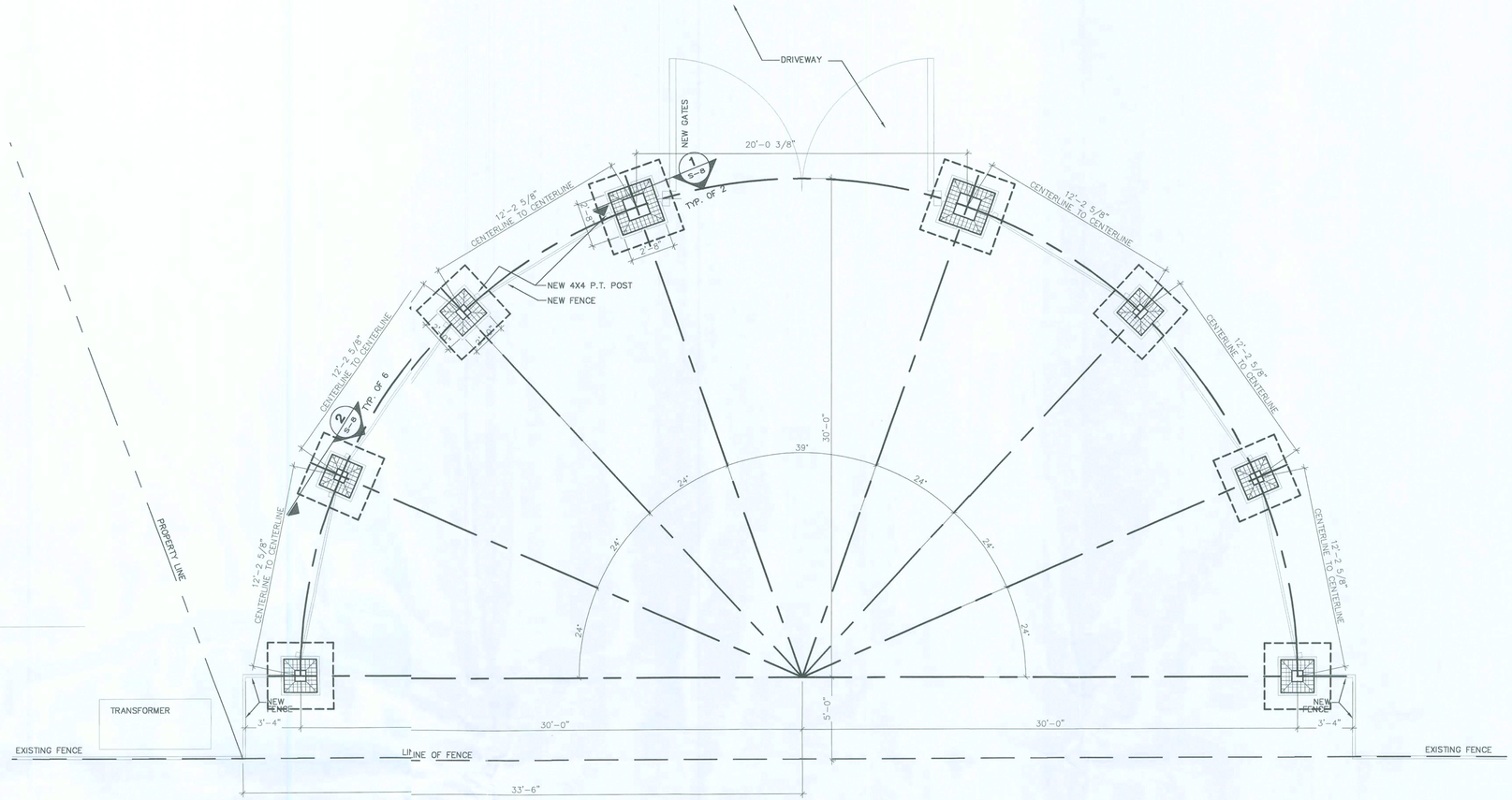
SECTION 1 / S-8
3/4"=1'-0"



SECTION B / S-
3/4"=1'-0"



SECTION 1 / S8
3/4"=1'-0"



ENTRY GATE FOUNDATION PLAN

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

WOOD

1. ALL STRUCTURAL WOOD MEMBERS ARE DESIGNED AS "DRY-USE". MOISTURE CONTENT MUST BE 19% OR LESS. STORE WOOD FRAMING ABOVE GROUND AND UNDER TARPS WITH PROPER AIR CIRCULATION.
2. ALL LUMBER SHALL BE SOUTHERN PINE SPECIES #2 GRADE OR APPROVED EQUAL. ALLOWABLE DESIGN STRESSES SHALL FOLLOW NATIONAL DESIGN SPECIFICATION (NDS) (LATEST EDITION).
3. HEADERS AT NON BEARING CONDITIONS SHALL BE AS FOLLOWS:

OPENING SIZE	HEADER
UP TO 4' -0"	(2) 2" X 6"
4'- 0" TO 6'- 0"	(2) 2" X 8"
6'- 0" TO 9'- 0"	(2) 2" X 10"

4. PROVIDE SP CCA PRESSURE TREATED LUMBER IN ACCORDANCE WITH AWPA STANDARDS TO A MINIMUM 0.40 PCF RETENTION WHERE LUMBER IS IN CONTACT WITH CONCRETE/MASONRY OR OUTSIDE OF BUILDING.
5. PLYWOOD SHEATHING:
   A. ROOF: Use 3/4" 48/24 RATED, EXP. 1, PLYWOOD SHEATHING.
   B. SEE FRAMING PLANS FOR NAILING AND/OR BLOCKING REQUIREMENTS. USE 8'- 0" LONG X 4'-0" WIDE SHEETS WITH LENGTH ACROSS FRAMING. STAGGER PANEL END JOINTS 4'-0" TYP., ALLOW 1/8" SPACE ALONG PANEL EDGES AND END JOINTS.
   C. SEE FRAMING PLANS FOR DIAPHRAGM NAILING TYPE, SIZE, SPACING AND LOCATIONS.
6. WOOD CONNECTIONS – ALL NAILS USED FOR STRUCTURAL FRAMING MEMBERS SHALL BE COMMON WIRE, U.N.O. ALL NAILS, TRUSS HANGERS, TRUSS ANCHORS AND STRAPS SHALL BE GALVANIZED COATED FOR CORROSIVE RESISTANCE. ALL METAL STRAPS MUST BE INSTALLED WITH EQUAL LENGTHS ABOUT THE JOINT LINE. USE SIMPSON STRONG-TIE CONNECTOR PRODUCTS OR APPROVED EQUAL. TOE NAILING WILL NOT BE PERMITTED.

PERMIT SET

HUSTAD CA 9843
STRUCTURAL ENGINEERING, LLC
756 VIA TOSCANA
WELLINGTON, FLORIDA 33414
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DAVID L. HUSTAD, P.E.
STRUCTURAL ENGINEER
FL PE LIC. #44996
FL SI LIC. #6986745 01/02/08

xx/xx/07

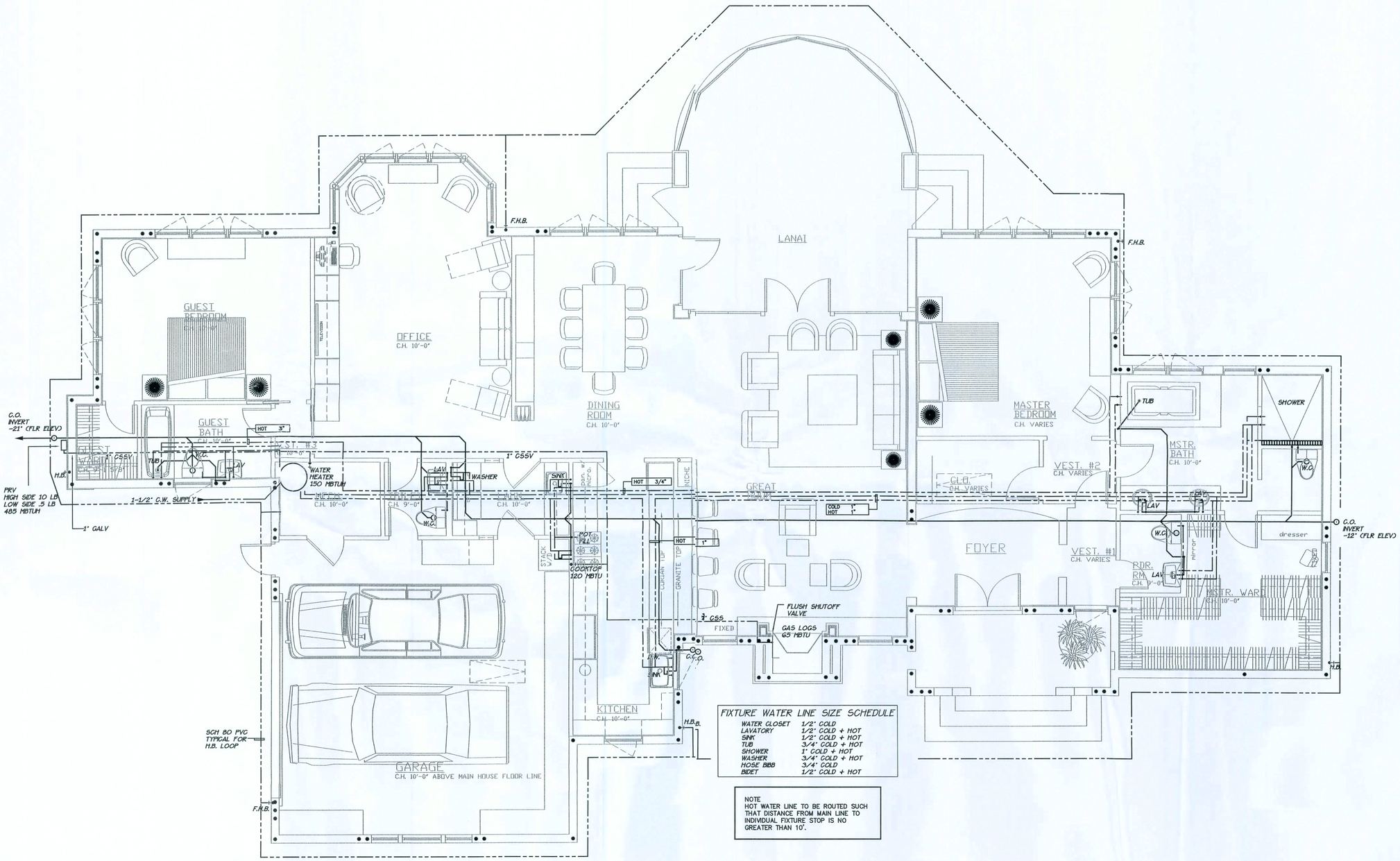
the lawrence group
ARCHITECTS 205 WORTH AVENUE, PALM BEACH, FLORIDA 33480 P.H. (561) 655-0670

MR. AND MRS. WADE HORNSBY
COLUMBIA COUNTY FLORIDA

FOUNDATION PLAN
SCALE: AS NOTED

S-8

6004



FIXTURE WATER LINE SIZE SCHEDULE	
WATER CLOSET	1/2" COLD
LAVATORY	1/2" COLD + HOT
SINK	1/2" COLD + HOT
TUB	3/4" COLD + HOT
SHOWER	1" COLD + HOT
WASHER	3/4" COLD + HOT
HOSE BIBB	3/4" COLD
BIDET	1/2" COLD + HOT

NOTE
HOT WATER LINE TO BE ROUTED SUCH THAT DISTANCE FROM MAIN LINE TO INDIVIDUAL FIXTURE STOP IS NO GREATER THAN 10'.

JOB #08080

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DATE: DEC 20 2007

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CERT. OF AUTH. NO. 4659

8-3-07

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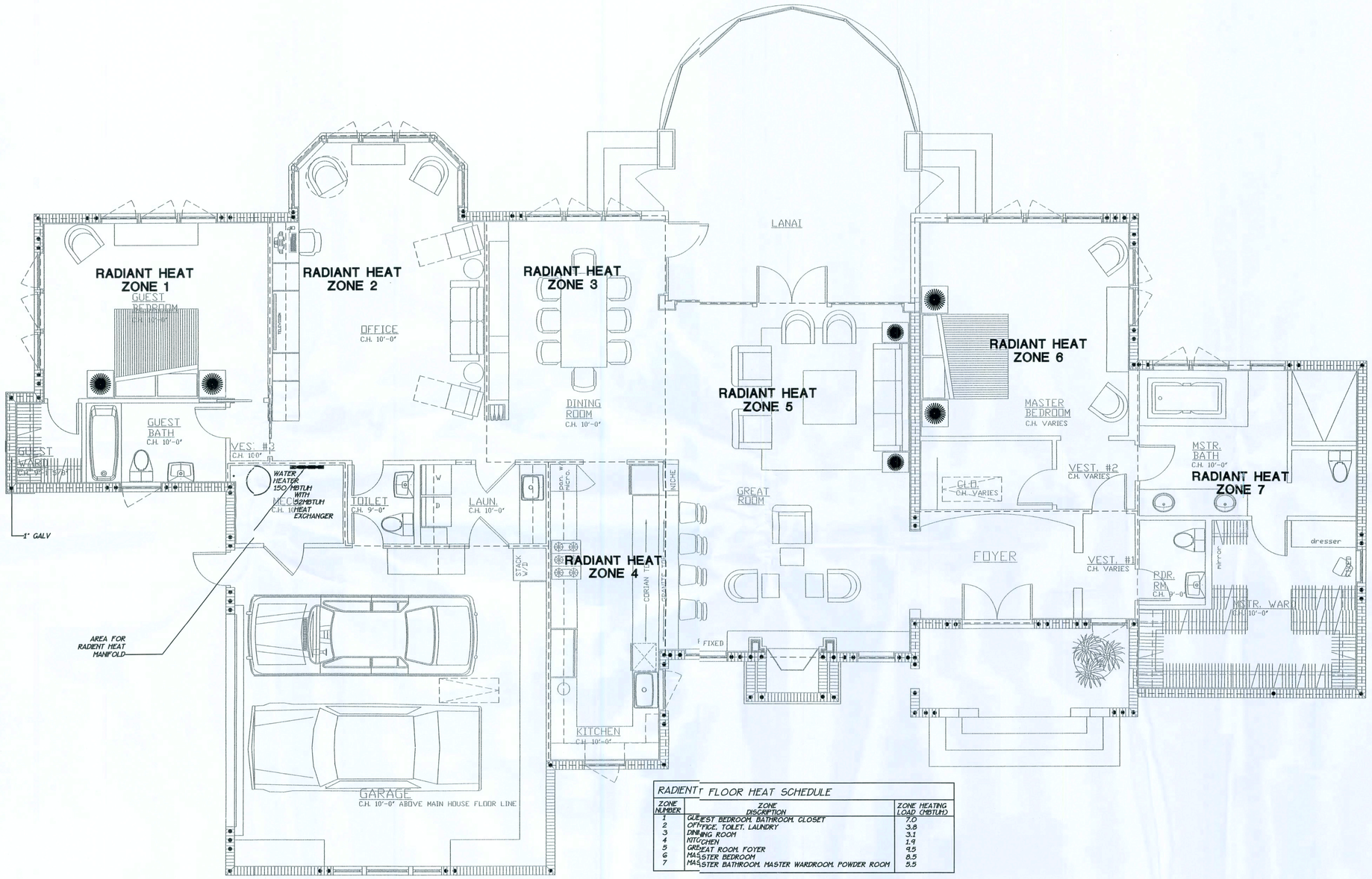
NEW RESIDENCE FOR
MR. AND MRS. WADE HORNSBY
HIGH SPRINGS, FLORIDA

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

P-1



RADIENT FLOOR HEAT SCHEDULE

ZONE NUMBER	ZONE DISCRIPTION	ZONE HEATING LOAD (MBTUH)
1	GUEST BEDROOM, BATHROOM, CLOSET	7.0
2	OFFICE, TOILET, LAUNDRY	3.8
3	DINING ROOM	3.1
4	KITCHEN	1.9
5	GREAT ROOM, FOYER	9.5
6	MASTER BEDROOM	8.5
7	MASTER BATHROOM, MASTER WARDROOM, POWDER ROOM	5.5

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8-3-07

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NEW RESIDENCE FOR
MR. AND MRS. WADE HORNSBY
HIGH SPRINGS, FLORIDA

RADIENT HEAT PLAN
SCALE:1/4"=1'-0"

P-2

PLUMBING SPECIFICATIONS

1. SCOPE

A. Plumbing contractor shall furnish all labor, materials and equipment necessary for the conlete installation of the sanitary sewer system (including soil and vent piping), water service, connection to water ster, tap valves, boxes, cold and hot water supply system, plumbing fittings, fixtures and trim; and all relod fittings and controls.

B. Water meter and fees by owner.

C. All excavation and backfill as required for this phase of construction, shall be part of thicontract.

2. CODES AND STANDARDS

A. All work, materials and equipment supplied and installed under this division shall comply wh the latest edition of the following codes as amended by the governing body:
Standard Building Code, Including all appendices
Local County & City Codes and Regulations
2004 Florida Building Code (Plumbing)

3. SUBMITTALS

A. See schedule on drawings.

4. PERMITS AND INSPECTIONS

A. All permits and fees for permits and inspections shall be paid for by this contractor.

5. MATERIALS

A. Sanitary waste
a) Below grade – Schedule 40 PVC.
b) Above grade – Cast Iron No Hub
c) Vent System – Schedule 40 PVC.
Schedule 40 PVC–Foam Core or CPVC is an unacceptable substitute.

B. Domestic Water Piping
a) Below grade – Soft copper type "K"
b) Above grade – Type "L" copper sweated or flanged

C. Joints to be wrought or cast Bronze. Lead Free solder is to be used on all joints.

D. Provide and Install Plumbing Fixtures as scheduled on drawings. Complete system (fixtus and equipment) shall be given an in–service test after completion of installation.

E. Underground valves shall be installed in precast concrete boxes.

F. Furnish and Install approved air chamber or shock absorbers & shutoff valves with accessanels at each fixture group.

6. INSTALLATION

A. Use manufacturers templates. Caulk where required. Provide blocking for all fixtures as quired. All water piping within the building shall be copper and run continuous above the ceiling. No jointsebow slab. All piping shall be properly supported with hangers of compatible material and all water pipes passi through concrete shall be sleeved to prevent chemical reactions.

B. All Hot water piping to be insulated. Material to be 1" sectional armaflex . All componen are to be of the same manufacturer. (tape, adhesive, and exterior finishes) Install as per manufacturers recomendations.

C. Verify inverts of sewer and drainage connections before installing sewer lines. Building drage system is based on 1/8" / ft. min. slope.

D. All work shall be coordinated with other trades to avoid interference with the progress ofonstruction.

E. Hose bibbs shall be installed where indicated on the drawings and shall have separate 3/4" main feed. Hose bibbs shall have a removable key handle with hose connection vacuum breaker. Fasn securely to wall. Install 18" above finish slab.

7. CLEAN-UP

A. On completion of work, remove all excess material, equipment and debris. Polish all plati or polished fittings. Leave work in clean condition per General Conditions.

8. GUARANTEE

A. The Plumbing contractor shall deliver to owner a written guarantee that the plumbing wor is free from defects in materials and workmanship for a period of one year, from the date of final acceptano and will repair or replace all work which becomes defective (not due to ordinary use) at no expense to the owner.

PLUMBING LEGEND

ABBREVIATION	DESCRIPTION
W.C.	WATER CLOSET
LAV	LAVATORY
SH.	SHOWER
W	WASHER
D.W.	DISH WASHER
GCO	GRADE CLEAN–OUT
WCO	WALL CLEAN–OUT
VTR	VENT THRU ROOF
H.B.	HOSE BIBB
F.H.B.	FLUSH HOSE BIBB –WOODFORD #B24P–3/4
SITE H.B.	SITE HOSE BIBB –WOODFORD #Y24–3/4"

PLUMBING PIPING LEGEND

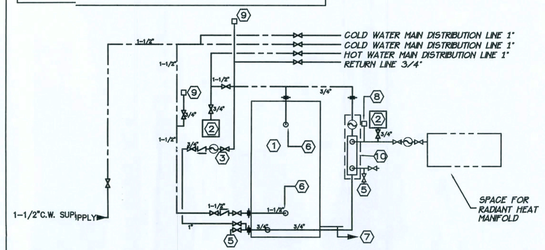
LINETYPE	DESCRIPTION
	COLD WATER
	HOT WATER
	HOT WATER RETURN
	SANITARY SEWER
	VENT
	GAS

NOTES

1. AO SMITH BTH–150 WITH MUFFLER.
2. AMTROL WX–200.
3. GRUNDFUS UP–15–18–FLANGED END CIRCULATOR PUMP.
4. UNION–TYPICAL AS NECESSARY FOR FUTURE TANK REMOVAL.
5. 3/4" TO 5/8" HOSE ADAPTON WITH 3/4" BALL VALVE.
6. 1–1/2" DIX–ELECTRIC FITTING TYPICAL OF 4.
7. 1/2" CLEAR TUBE TO FLOOR DRAIN. OR CONDENSATE COLLECTION SYSTEM
8. AUTO AIR VENT–GRUNDFUS YGE075T
9. VACUUM BREAKER 12." ABOVE TANK LEVEL.
10. CIRCULATING LOOP DOUBLE WALL HEAT EXCHANGER RATED FOR 52 MBTUH COMPLETE WITH PRIMARY LOOP CIRCULATOR AND 24V CONTROL RELAY. A.O SMITH MODEL #KDLD–52.

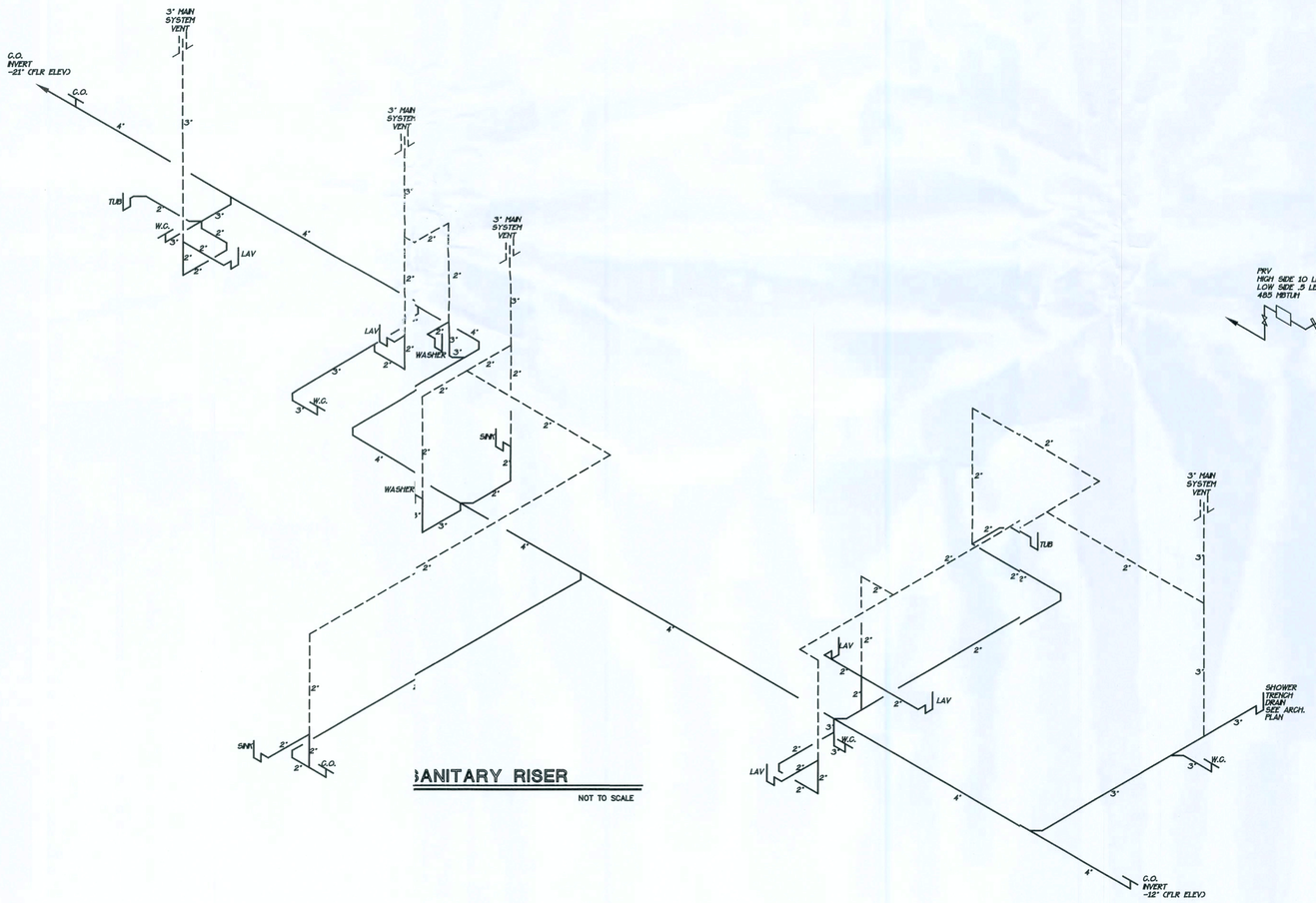
LEGEND

- BOOSTER PUMP
- SHUTOFF VALVE
- CHECK VALVE



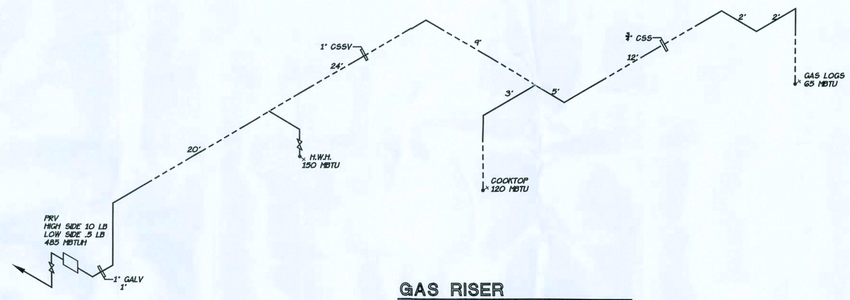
HOT WATER HEATER DETAIL

NOT TO SCALE



SANITARY RISER

NOT TO SCALE



GAS RISER

NOT TO SCALE

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JOB #06068

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DATE: DEC 2 0 2007

8-3-07

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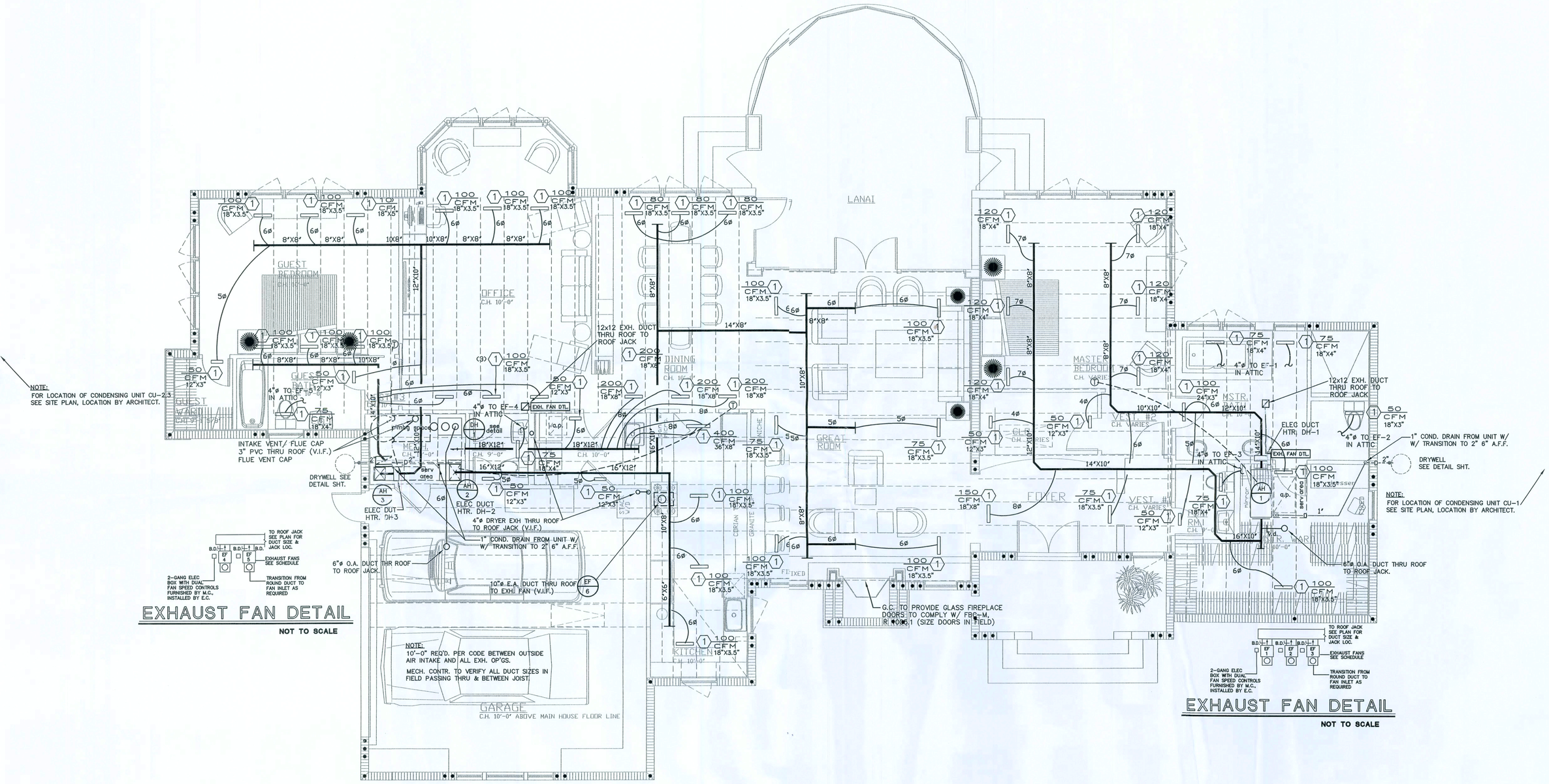
NEW RESIDENCE FOR
MR. AND MRS. WADE HORNSBY
HIGH SPRINGS, FLORIDA

SANITARY & GAS RISER
SCALE=1/4"=1'-0"

P-3



EXHAUST FAN DETAIL

NOT TO SCALE

EXHAUST FAN DETAIL

NOT TO SCALE

JOB #28080

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DATE: DEC 20 2007

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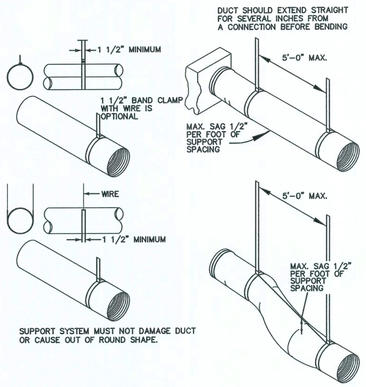
NEW RESIDENCE FOR
MR. AND MRS. WADE HORNSBY
HIGH SPRINGS, FLORIDA

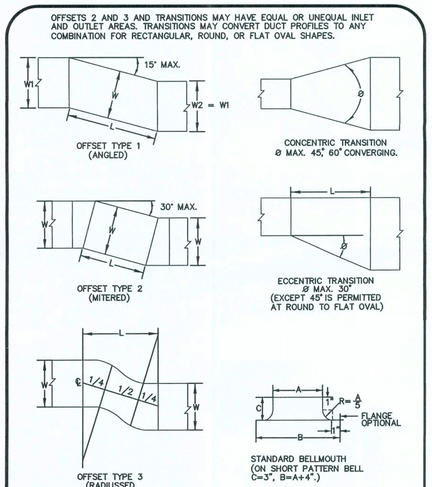
MECHANICAL FLOOR PLAN
SCALE:1/4"=1'-0"

M-1

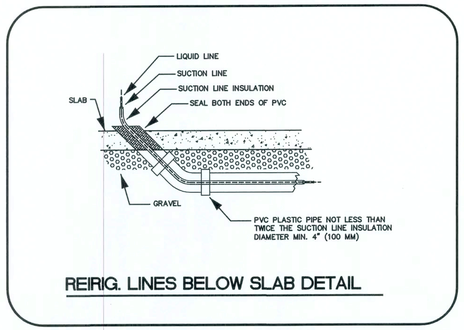
6004



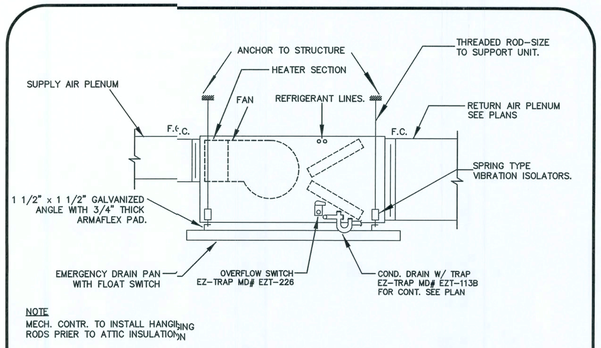
FLEXIBLE DUCT SUPPORT



TRANSITION DETAILS

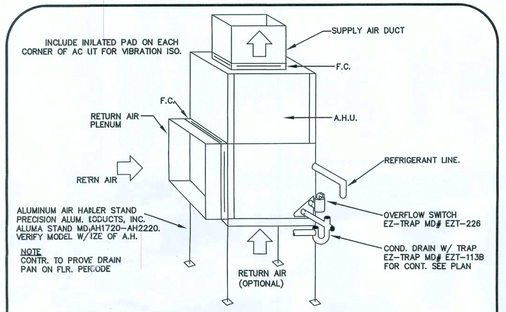


REIRIG. LINES BELOW SLAB DETAIL



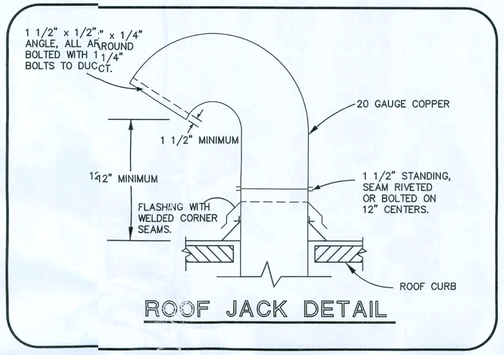
NOTE
MECH. CONTR. TO INSTALL HANGING RODS PRIER TO ATTIC INSULATION.

HORIZONTAL AC DETAIL

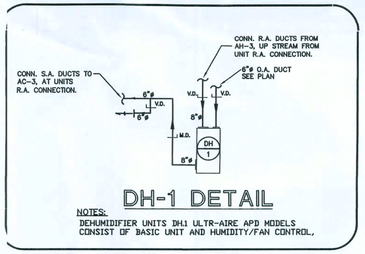


NOTE
CONTR. TO PROVE DRAIN PAN ON FLR. PER CODE

VERTICAL AC DETAIL

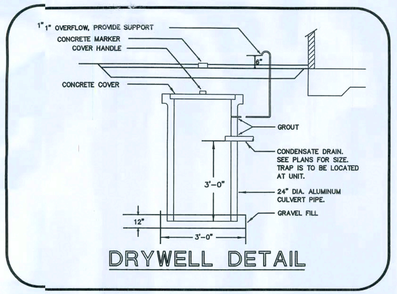


ROOF JACK DETAIL



DH-1 DETAIL

NOTES:
DEHUMIDIFIER UNITS DH1 ULTR-AIRE APD MODELS CONSIST OF BASIC UNIT AND HUMIDITY/FAN CONTROL.



DRYWELL DETAIL

MECHANICAL SPECIFICATIONS

1. SCOPE

A. The work covered in this section of the specifications consists of furnishing all labor, equipment, and material and in performing all operations in connection with the installation of the complete air conditioning and heating system. All work will be complete and in accordance with this section of the specifications and applicable drawings, and will be subject to the terms and conditions of the contract.

2. SPECIFICATIONS AND DRAWINGS

A. The mechanical drawings indicate the general arrangement of the air conditioning and heating system. These specifications and drawings shall supplement each other. Equipment, ductwork and piping shall fit into the space allocated and shall provide all necessary clearance for servicing and maintenance.

3. CODES AND STANDARDS

A. The work shall comply with the latest applicable requirements of the NFPA and all local codes governing this installation as a minimum standard unless specifications listed herein or shown on the plans require a higher minimum standard.

4. PERMITS AND FEES

A. The HVAC Contractor shall procure all permits and pay all fees associated with the permitting and inspection process. The HVAC Contractor shall also arrange for all inspections.

5. ELECTRICAL

A. The Electrical Contractor shall furnish and install all conduit, wire, seal-tight, and disconnects. Unless otherwise stipulated, the Electrical Contractor shall connect the air conditioning units. The HVAC Contractor will furnish all materials, wire and connect the thermostat.

6. VIBRATION AND ISOLATION

A. Both the air handler unit and condensing unit shall be placed on vibration isolators. The HVAC contractor shall take all necessary steps to eliminate all excessive vibration and objectional noise projected by any equipment installed under this contract.

7. INSTALLATION

A. The HVAC contractor shall supply one thermostat per air system. Staging of heating and cooling shall be indicated on the drawings.

B. All refrigeration piping to be of Type "L" copper with wrought copper fittings. Joints shall be made with silver solder.

C. The refrigeration suction lines shall be insulated as follows: above ground with 1/2" "Armstrong Armaflex" below ground\slab with same encased in P.V.C. conduit. Insulation shall be slipped on piping prior to connection. All butt joints to be sealed with an approved adhesive. Installation of condensate line is by the HVAC contractor. Insulate all lines run above ceiling. See detail for underground piping.

D. The supply and return air duct system shall be fabricated of Johns Manville "Superduct Type 800, 1.5" thick. All fabrication shall be in accordance with the manufacturers written fabrication manual and follow NAIMA Fibrous Glass Duct Construction Standards. Turning vanes shall be provided in duct at all changes in direction. Vanes shall be Johns Manville "Supervane". All joints shall be stapled approximately 2" on center with outward clinching steel staples and Fortifiber "Therm-Lock" closure with automatic bond indicator. Tape shall have minimum 1" overlap on each side of seam.

E. Supply and return air registers shall be Titus or their Metal Aire equivalent as indicated on the drawings. All supply registers are to be equipped with manual dampers.

F. Extractors and turning vanes shall be installed where indicated on the drawings in addition to all bends over 45 degrees.

G. Filters to be 2" Fiberbond Dustlok with Sporex antimicrobial agent and dual ply construction, or its equivalent. Furnish two additional filters for each size of filter used.

8. TESTING AND BALANCING

A. Upon completion of work the HVAC Contractor shall use accurate meters, instruments of type and size as required to determine proper air flow and distributions. Confirm that all fuse sizes are in accordance to the motor nameplate data.

B. Air quantities: Check each blower and diffuser as indicated on drawings for correct and adequate diffusion. Outside air quantities to be checked and adjusted as required. After spaces have been brought up to design temperatures and equipment is functioning properly, re-balance, if necessary, by means of calibrated thermometers placed in each room and in open spaces, not over 20' apart. Thermostats: No deviation in temperature of more than 3 degrees fahrenheit throughout conditioned space. Contractor shall submit complete data report regarding balancing, in addition to various control settings for approval of Architect.

FAN SCHEDULE

UNIT NO.	MFGR. MODEL NUMBER	CFM	SP	RPM MAX.	AMPS/ WATTS	ELECTRIC REQ. VOLT	ELECTRIC REQ. PHASE	REMARKS
EF-1	PANASONIC FV-20NLF1	150	0.20"	VARIES	.46A	120	1	1, 3, 4
EF-2	PANASONIC FV-10NLF1	50	0.20"	VARIES	.31A	120	1	1, 3, 4
EF-3	PANASONIC FV-10NLF1	75	0.20"	VARIES	.31A	120	1	1, 3, 4
EF-4	PANASONIC FV-10NLF1	75	0.20"	VARIES	.31A	120	1	1, 3, 4
EF-5	PANASONIC FV-10NLF1	75	0.20"	VARIES	.31A	120	1	1, 3, 4
EF-6	THERMADOR VTR1000Q	1000	—	VARIES	7.8	120	1	1, CURB

1. FURNISH WITH SPEED CONTROLLER TO ELEC. CONTR. FOR INSTALLATION
2. HANGING VIBRATION ISOLATORS
3. FLEXIBLE CONNECTIONS
4. BACKDRAFT DPR.

GRILLE AND DIFFUSER SCHEDULE

DESIGN.	MFGR. MODEL NUMBER	SIZE	DIRECTION	CFM	TYPE	MNT. TYPE	FINISH	REMARKS
1	TITUS / CT-481	SEE PLAN	SEE PLAN	SEE PLAN	SUP/RET/EXH	–	WHITE	CEILING / SIDEWALL

NOTE
DIFFUSER TYPE 1 INSTALLATIONSTO HAVE HIDDEN FLANGES
CONTRACTOR TO PROVIDE FIELD BUILT PLENUMS.
AIR HORIZON ACCEPTABLE EQUAL.

DEHUMIDIFIER UNIT SCHEDULE

UNIT NO	MANUFACTURER	MODEL NO	CFM	S.P.	VOLTAGE	AMPS	REMARKS
DH-1	ULTRA-AIRE	UA-100V	240	0.10"	120	6.8	17" x 24" x 48"

REMARKS:

SUPPLY AIR UNIT SCHEDULE

SYS. NO.	CU. NO.	MFGR. MODEL NUMBER	CAPACITY TOTAL	CAPACITY SENS	FAN CFM	FAN H.P.	HEAT KW	ELECTRIC R). VOLT	ELECTRIC R). PHA:	EER (SEER)	DIMENSIONS W / D / H	LOCATION
AC1	CU1	CARRIER – FE5ANB004	26.6	19.9	800	1/2	notes	240	1	21.0	21 X 22 X 53	ATTIC
AC2	CU2	CARRIER – FE5ANB006	38.0	28.5	1200	1/2	notes	240	1	20.0	21 X 22 X 53	M.E.R.
AC3	CU3	CARRIER – FE5ANB004	26.6	19.9	800	1/2	notes	240	1	21.0	21 X 22 X 53	M.E.R.

AC-1,2,3, PROVIDED W/ 10 KW ELEC. STRIP HEAT, FIELD INSTALLED, PROVIDED BY MF.
PROVIDE INFINITY CONTROL THERMOSTAT, MODEL SYSTXCCUID01-A
ALL SUPPLY AIR UNITS TO BE FURNISHED WITH A EMERGENCY DRAIN PAN. FURNISH TH FILTER HOUSING EQUAL TO AMERICAN AIR FILTER "ACCESSAIR" COMPLETE WITH 2" PLEATED AIR FILTER AS SPEFED.
SIZE TO BE AS REQUIRED TO PROVIDE A MINIMUM OF 360 SQUARE INCHES OF FACE AEA. PROVIDE 6 SPARE FILTERS OF EACH SIZE USED TO OWNER AT TIME OF SYSTEM ACCEPTANCE.
ALL SUPPLY AIR UNITS TO HAVE ONE (1) POINT ELECTRICAL CONNECTION AND INTEGRL DISCONNECTS.

CONDENSING UNIT SCHEDULE

SYS. NO.	CU. NO.	MFGR. MODEL NUMBER	COMPRESSOR NO.	COMPRESSOR FLA (EA)	COND. FAN NO.	COND. FAN FLA (EA)	BRANCH CIR. MAX. AMPS	ELECTRIC REQ. VOLT	ELECTRIC REQ. PHASE	SIZE	DIMENSIONS W / D / H
AC1	CU1	CARRIER – 24ANA124A	1	10.3	1	1.1	35	240	1	2.0 T	40 X 35 X 47
AC2	CU2	CARRIER –24ANA136A	1	16.6	1	2.2	35	240	1	2.0 T	35 X 40 X 47
AC3	CU3	CARRIER – 24ANA124A	1	10.3	1	1.1	35	240	1	2.0 T	40 X 35 X 47

CONTRACTOR TO SUBMIT FOR ENGINEER REVIEW, REFRIGERANT LINE SIZING CALCULATIONS BASED ON MANUFACTURES PUBLISHED CRITERIA.
CONTRACTOR TO VERIFY LOCATION FROM HOUSE OF CONDENSING UNITS ON SITE PLAN.

JOB #8208

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DATE: DEC 20 2007

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CERT. OF AUTH. NO. 4659

E-3-07

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NEW RESIDENCE FOR
MR. AND MRS. WADE HORNSBY
HIGH SPRINGS, FLORIDA

MECHANICAL SCHEDULES AND DETAILS
SCALE:1/4"=1'-0"

M-2

3004

MECHANICAL SPECIFICATIONS

1. SCOPE

A. The work covered in this section of the specification consists of furnishing all labor, equipment, and material and in performing all operaons in connection with the installation of the complete air conditioning and heating system All work will be complete and in accordance with this section of the specifications ar applicable drawings, and will be subject to the terms and conditions of the contract

2. SPECIFICATIONS AND DRAWINGS

A. The mechanical drawings indicate the general arrangment of the air conditioning and heating system. These specifications and drawings all supplement each other. Equipment, ductwork and piping shall fit into the spce allocated and shall provide all necessary clearance for servicing and maintenanc.

3. CODES AND STANDARDS

A. The work shall comply with the latest applicable reqrements of the NFPA and all local codes governing this installation as a minimum standard uiess specifications listed herein or shown on the plans require a higher minimum standard.

4. PERMITS AND FEES

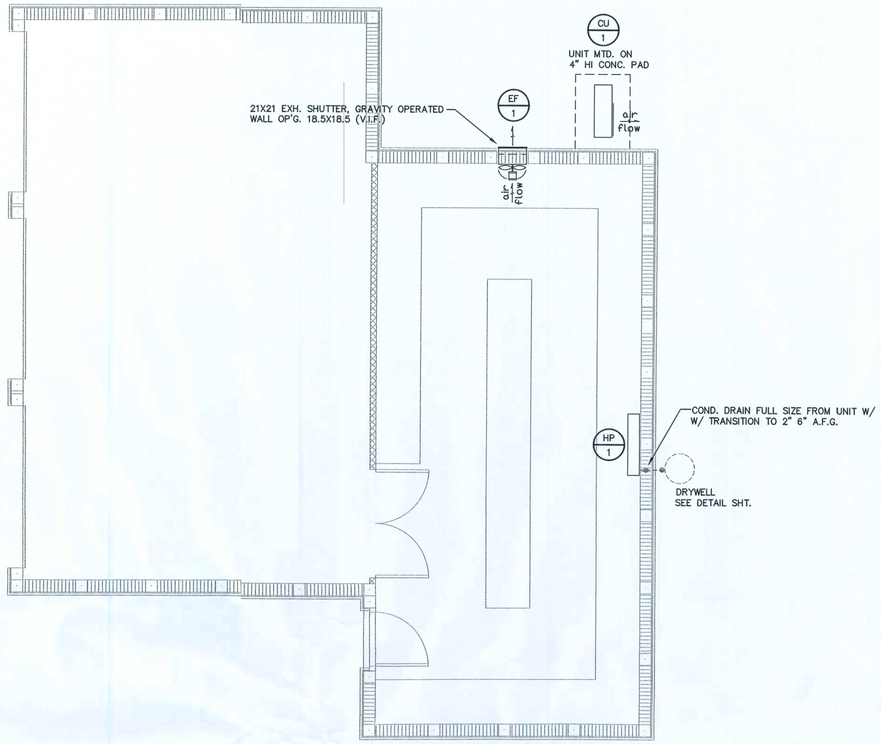
A. The HVAC Contractor shall procure all permits and py all fees associated with the permitting and inspection process. The HVAC Contrator shall also arrange for all inspections.

5. ELECTRICAL

A. The Electrical Contractor shall furnish and install all onduit, wire, seal–tight, and disconnects. Unless otherwise stipulated, the Electrial Contractor shall connect the air conditioning units. The HVAC Contractor will furnish ill materials, wire and connect the thermostat.

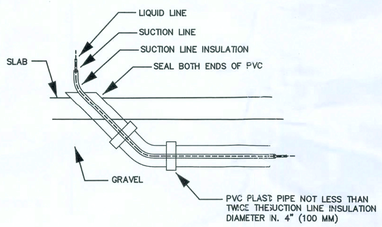
6. VIBRATION AND ISOLATION

A. Both the air handler unit and condensing unit shall b placed on vibration isolators. The HVAC contractor shall take all necessary steps to eliminateall excessive vibration and objectional noise projected by any equipment installed under thiscontract.



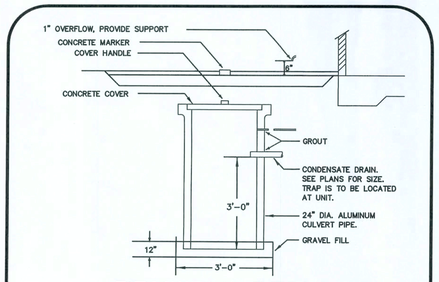
GUEST HOUSE MECHANICAL PLAN

SCALE: NONE



REFRIG. LINES BELOW SLABDETAIL

N.T.S.



DRYWELL DETAIL

N.T.S.

FAN SCHEDULE

UNIT NO.	MFGR. MODEL NUMBER	CFM	SP	RPM MAX.	AMPS OR HP	ELECTRIC REQ. VOLT	ELECTRIC REQ. PHASE	REMARKS
EF-1	GRANGER - 4C007	885	0.125	-	1/20	120	1	

1. FURNISH WITH SPEED CONTROLLER TO ELEC. CONTR. FOR INSTALLATION
2. HANGING VIBRATION ISOLATORS
3. FLEXIBLE CONNECTIONS
4. BACKDRAFT DPR.

SUPPLY AIR UNIT SCHEDULE

SYS. NO.	CU. NO.	MFGR. MODEL NUMBER	CAPACITY TOTAL	CAPACITY SENS	FAN CFM	FAN H.P.	HEAT KW	ELECTRIC REQ. VOLT	ELECTRIC REQ. PHASE	EER (SEER)	DIMENSIONS	LOCATION
HP1	CU1	SANYO - KHS2472	24.2	–	500	–	2.5	208	1	16.0	41 X 11 X 8	WALL MTD.

HP-1 PROVIDED W/ WIRELESS REMOTE CONTROLLER

CONDENSING UNIT SCHEDULE

SYS. NO.	CU. NO.	MFGR. MODEL NUMBER	COMPRESSOR NO.	COMPRESSOR FLA (EA)	COND. FAN NO.	COND. FAN FLA (EA)	BRANCH CIR. MAX. AMPS	ELECTRIC REQ. VOLT	ELECTRIC REQ. PHASE	SIZE	DIMENSIONS
HP1	CU1	SANYO - CH2472	1	1.3	1	–	20	208	1	2.0 T	35 X 12 X 29

CONTRACTOR TO SUBMIT FOR ENGINEER REVIEW, REFRIGERANT LINE SIZING CALCULATIONS BASED ON MANUFACTURES PUBLISHED CRITERIA.

TEELE & ASSOCIATES
CONSULTING ENGINEERS
2123 CORPORATE DRIVE
BOYNTON BEACH, FLORIDA 33426 (561) 738-4747
CERT. OF AUTH. NO. 4689

JOB #28088

MICHAEL A. TEELE, P.E.
ENGINEER OF RECORD
FLORIDA REGISTRATION
P.E. 32866

DATE: DEC 20 2007

8-15-06

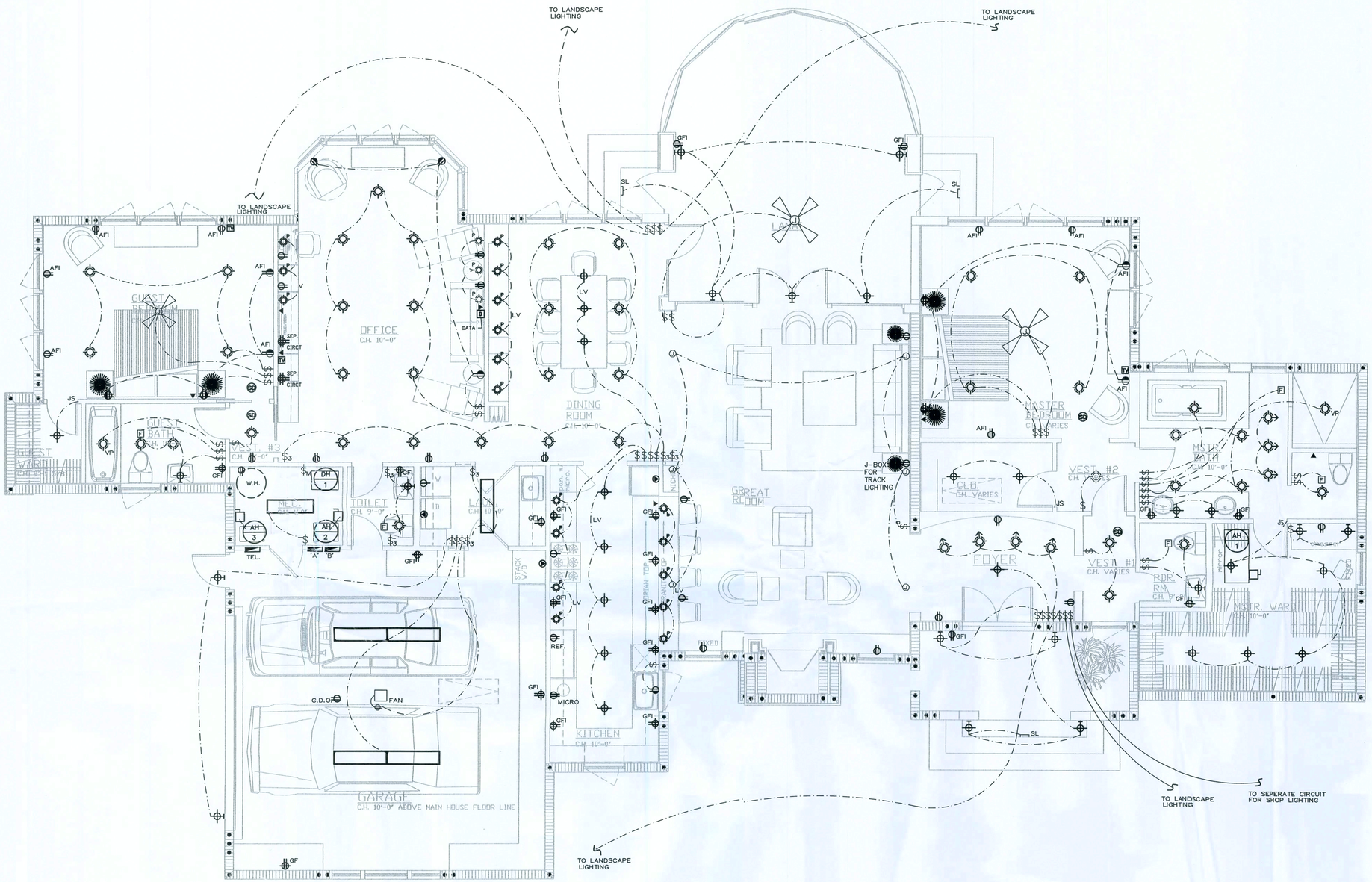
the lawrence group
ARCHITECTS 205 WORTH AVENUE, PALM BEACH, FLORIDA 33480 P.H. (561) 655-0670

MR. AND MRS. WADE HORNSBY
COLUMBIA COUNTY FLORIDA

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

M-3

6004



ELECTRIC KEYNOTES:

1. PROVIDE WIRELESS MODEM THROUGHOUT ENTIRE HOUSE.
2. PROVIDE ELECTRICAL TO CONDENSE UNITS AS SHOWN. COORDINATE WITH HVAC CONTRACTOR AND FIELD VERIFY EXACT LOCATIONS.

JOB #06066

MICHAEL A. TEELE, P.E.
ENGINEER OF RECORD
FLORIDA REGISTRATION
P.E. 32066
DATE: DEC 20 2007

TEELE & ASSOCIATES
CONSULTING ENGINEERS
2103 CORPORATE DRIVE
BOYNTON BEACH, FLORIDA 33426 (561) 738-4747
CERT. OF AUTH. NO. 4669

8-3-07

the lawrence group
ARCHITECTS 205 WORTH AVENUE, PALM BEACH, FLORIDA 33480 P.H. (561) 655-0670

NEW RESIDENCE FOR
MR. AND MRS. WADE HORNSBY
HIGH SPRINGS, FLORIDA

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

E-1

6004

ELECTRICAL SPECIFICATIONS

1. GENERAL SPECIFICATIONS

A. GENERAL:
The requirements of the general, supplementary and special conditions of the contract specifications and drawings are hereby made a part of this section of the specifications. It is the intent of the plans and specifications to provide a complete and operating installation including all obviously necessary items even though items are not indicated on the drawings or specifications.

C. PERMITS, SALES TAX, ETC.:
The contractor shall secure and pay for all permits, State Sales Tax, Federal Excise Tax, royalties and other taxes or fees as required for installation of a complete system as outlined herein and as shown on the plans. The contractor shall secure all necessary licenses and insurance.

D. CODES:
The work shall comply with the following code cycles, applicable requirements of the NFPA–72 2002, 2004 FBC, 2004 Residencial Building Code, 2005 NEC. and all local codes governing this installation as a minimum standard unless specifications listed herein or shown on the plans require a higher minimum standard.

E. BRANDS OF EQUIPMENT:
Where one manufacturer only is named, the bids shall be based on furnishing equipment or materials by this manufacturer. Products of other manufacturers will be considered for use if in the engineer's opinion the item requested for substitution is equal to that specified. Where no manufacturers are named, the contractor shall select equipment or material which meets the specifications.

F. DEPARTURES FROM DRAWINGS:
The contract drawings indicate the extent and general arrangements of equipment and systems. If any departures from the contract drawings are deemed necessary by the contractor, details of such departures and reasons therefore shall be submitted to the engineer for approval. No such departures shall be made without the prior written approval of the engineer.

G. CHANGES:
The contractor shall conform to all reasonable changes without additional cost.

H. ERRORS AND OMISSIONS:
All obvious errors and/or omissions in the above mentioned documents shall be called to the attention of the engineer at least four days prior to the bid date. If notification is not received, no extras to the original drawings and specifications will be authorized.

I. GUARANTEE:
The contractor shall provide a guarantee against defective workmanship, materials or equipment for a period of one year from the date of acceptance. This guarantee shall include all costs encountered in the replacing of defective work or materials. The contractor shall convey to the owner any additional guaranties or warranties provided by the manufacturer of an individual item, equipment or material.

2. RACEWAY

A. ENT:
May be used for all branch circuit wiring in areas above grade and within the the building where allowed by code.. All ENT fittings shall be glued.

B. PVC:
Shall be schedule 40 high impact, UL approved, and shall be installed underground or below the slab. Exposed PVC shall be schedule 80.

C. RIGID CONDUIT:
Shall not be used.

D. ROMEX:
Shall not be used.

3. WIRE AND CABLE

A. CONDUCTORS:
Shall be copper. Insulation shall be type THHN/THWN for ALL sizes.
Minimum size wire No. 12, Conductors NO. 10 and larger are to be stranded.
Branch conduit outlets shall be connected as indicated.

B. COLOR CODES:
Conductors shall be color coded throughout. Same color shall be used for branch circuit wiring of a given phase. Grounded conductors No. 4 AWG and larger may be Black, But shall be identified with colored tape in junction boxes, pull boxes, panels, and service equipment.
(d) 120/240V or 120/208V systems
(1) Three wire circuits – one black, one red and one white
(2) Four wire circuits – one black, one red, one white, one blue.
(b) 277/480V systems –one brown, one orange, one yellow, one gray
(c) Continuity of neutrals of multi–wired branch circuits shall not be made on terminals of any device. This will assure no opening of neutral in replacement of device.

C. SPLICES:
(a)#10 and below – Scotchlok or equal
(b)#8 and larger – Not allowed

4. BOXES

A. OUTLET BOXES:
Section welded galvanized stamped steel for gang sizes required.
Sectional boxes will not be acceptable. Boxes larger than standard shall be provided in accordance with the National Electrical Code where necessary to prevent crowding of wires.

B. FLOOR BOXES:
To be Carlon E971FB with E97ABR adapter for cast Bronze cover plates as manufactured by Steel City.

5. WIRING DEVICES

A. MOUNTING HEIGHTS:
(a)Switches at 4'0" or as noted
(b)Receptacles at 18" or as noted
(c)Telephone outlets at 18" or as noted

B. WALL SWITCHES:
Shall be intermediate grade, quiet–type, high performance switches rated at 15A.277v. Color and switch plates as directed by the Architect and Interior Decorator.

C. RECEPTACLES:
See general notes on this sheet for requirements.

D. POWER OUTLETS:
Leviton or Slater, type and size as noted.

E. DIMMER SWITCHES:
Shall be equal to Lutron #N – 1500 ML slide dimmer with touch – button on/off switch with Lutron #N – SML for three way control. Low voltage dimmers shall be Nova Series, load coordinated as required.

6. DISCONNECT SWITCHES

Shall be furnished with enclosures as required by exposures either NEMA 1 or 3R and shall be horsepower rated, heavy duty with fuses as noted.

B. NON–FUSIBLE DISCONNECT SWITCHES:
Shall be provided for all motors located out of sight of motor controller and where indicated on the drawings. Disconnect switches shall disconnect all ungrounded conductors.

C. FUSES:
To be furnished for fusible equipment. Motor fuses shall be bus fusetrons rated between 125 and 150 percent of motor name plate rating. Furnish extra set of spare fuses for each fused disconnect installed. Spare fuses to be placed within a fuse cabinet located in the electric room.

7. PANELBOARD, LOADCENTER

A. Loadcenters shall be as noted on plans with cover and typewritten directory inside of cover. Panelboards shall be the product of Cutler–Hammer or Square D.

8. LIGHTING FIXTURES

A. Unless otherwise noted, Light Fixtures will be furnished by others for installation by the electrical contractor.

9. IDENTIFICATION

A. Tag all conductors and identify major conduits in or at wireways, panels, pullboxes, switchboards, motor controllers, cabinets and similar items to assist in future circuit tracing. Conductor tags shall be nonconductive.

B. Identify all circuits and equipment to correspond with the plans and specifications.

10. CLEAN-UP

A. On completion of work, remove all excess material, equipment and debris. Leave workspace in clean condition.

ELECTRICAL LEGEND:

SYMBOL	DESCRIPTION
S	SINGLE POLE SWITCH – 20A/120V.
S_3	3 – WAY SWITCH – 20A/120V.
S_4	4 – WAY SWITCH – 20A/120V
S_J	DOOR JAMB SWITCH FOR CLOSET LIGHTS
S_D	DIMMER SWITCH
S_{D3}	3 – WAY DIMMER SWITCH
S_M	MOTOR SWITCH
	HALF–SWITCHED DUPLEX RECEPTACLE – 20A/125V
	DUPLEX RECEPTACLE @ 44" A.F.F. – 20A/125V
	DUPLEX RECEPTACLE – 20A/125V
	DUPLEX RECEPTACLE – 20A/125V
	QUADRAPLEX RECEPTACLE – 20A/125V
I.G.	DUPLEX RECEPTACLE – 20A/125V ISOLATED GROUND.
G.F.I.	DUPLEX RECEPTACLE – 20A/125V GROUND FAULT INTERRUPTER.
W.P.	OUTLET – WEATHERPROOF.
	POWER OUTLET – VOLTAGE & SIZE AS NOTED.
	FLOORBOX WITH DUPLEX RECEPTACLE 20A/125V.
	DISCONNECT, VOLTAGE & SIZE AS NOTED.
	JUNCTION BOX
▼	(2) CAT 6, 8 COND, (1) BLUE, (1) YELLOW
▼FAX	(2) CAT 6, 8 COND, (1) BLUE, (1) YELLOW
TV	(2) RG6U QUAD COAX CABLES (2) CAT 6, 8 COND, (1) BLUE, (1) YELLOW
C	(1) RG6U QUAD COAX CABLE (2) CAT 6, 8 COND. (1) BLUE, (1) YELLOW
SD	SMOKE DETECTOR
EX.	EXISTING TO REMAIN.
SP	SPEAKER
SP	CEILING MOUNT SPEAKER
	PANEL, SIZE & VOLTAGE – SEE PANEL SCHEDULE.

LIGHTING FIXTURE LEGEND:

SYMBOL	DESCRIPTION
	SINGLE TUBE FLUORESCENT LIGHT FIXTURE - NO LENS
	2 TUBE FLUORESCENT LIGHT FIXTURE ASSEMBLY WRAP AROUND LENS.
FL	COMBINATION FAN LIGHT
	FAN
	RECESSED DOWN LIGHT
	RECESSED WALL WASHER
	FLUSH MOUNTED LIGHT FIXTURE (CEILING)
	SURFACE MOUNTED LIGHT FIXTURE (WALL)
	SURFACE MOUNTED DUAL FLOOD LIGHTS
	FLOOR RECEPTACLE 120 V

SERVICE LOAD CALCULATION

		LINE	NEUTRAL
TOTAL AREA OF AIR CONDITIONED SPACE	2,892		
TOTAL AREA OF UNCONDITIONED SPACE	909		
GENERAL LIGHTING AND RECEPTACLES			
CONDITIONED SPACE @3 WATTS PER SQUARE FOOT		8,676	8,676
UNCONDITIONED SPACE @ 1 WATT PER SQUARE FOOT		909	909
SMALL APPLIANCE CIRCUIT (2)		3,000	3,000
LAUNDRY CIRCUIT		1,500	1,500
WASHER (2)		3,000	3,000
DRYER (2)		11,000	7,700
KIT. REFRIGERATOR		1,500	1,500
DISWASHER		1,500	1,500
DISPOSAL		1,200	1,200
COOKTOP (GAS)		360	360
DOUBLE OVEN		8,000	5,500
MICROWAVE		1,500	1,500
EXHAUST FAN HOOD		1,200	1,200
W.H. RECIRC PUMP		360	360
GARAGE DOOR OPENER		1,200	1,200
LAWNSCAPE LIGHTING (ALLOWANCE)		5,000	5,000
MISC. MOTOR LOADS		2,500	1,500
TOTAL (OTHER LOADS)		52,405	45,705
FIRST 10 KW @ 100%		10,000	10,000
BALANCE @ 40%		18,962	14,282
LARGEST OF THE FOLLOWING			
AIR CONDITIONING	8.2 KW @ 100%	-	
HEATING	30.0 KW @ 65%	19,500	
TOTAL LOAD (WATTS)		48,462	24,282
LOAD AMPS @ 120/240. 1 PHASE, 3 WIRE		194	101
SERVICE AMPACITY AT 120/240V, 1PHASE 3WIRE		400	400

PANELBOARD A

RATED VOLTAGE 120/240, 1PH, 3WIRE
RATED AMPS 225
MAIN MAINBREAKER
BRANCH POLES 42
BRANCH DEVICES PLUG-ON

LOCATION SEE PLAN
MOUNTING FLUSH
FEEDER CONDUCTORS (3)-4/0 THHN CU. & (1)-#2GND
FEEDING CONDUIT 2-1/2"
MANUF. CAT. NO. SQ. D. "NQOD"

WIRE SIZE	DESCRIPTION	APPL/ KVA	HVAC KVA HEAT	HVAC KVA A/C	BREAKER TRIP	BREAKER POLE	CIRCUIT NUMBER		BREAKER POLE	BREAKER TRIP	HVAC KVA A/C	HVAC KVA HEAT	APPL/M KVA	DESCRIPTION	WIRE SIZE
							1	2							
#8	A.H.U. #1		10.0		60	2	3	4	2	30			5.5	GARAGE STACK WASHER/DRYER	#10
							5	6	1	20					
#8	A.H.U. #2		10.0		60	2	7	8	1	20			1.0	DISPOSAL	#12
							9	10	1	20			1.5	MICROWAVE	#12
#8	A.H.U. #3		10.0		60	2	11	12	1	20			1.5	REFIGERATOR	#12
							13	14	1	20			0.4	COOKTOP (GAS)	#12
#10	COND. UNIT #1			3.2	35	2	15	16	1	20			1.0	EXHAUST HOOD	#12
							17	18	1	20			1.5	DEHUMIDIFIER	#12
#10	COND. UNIT #2			3.2	35	2	19	20	1	20			0.4	WATER HEATER (GAS)	#12
							21	22	1	20			1.0	GARAGE DOOR OPENER	#12
#10	COND. UNIT #3			3.2	35	2	23	24	1	20			1.0	LAWNSCAPE LIGHTING	#12
							25	26	1	20			1.0	LAWNSCAPE LIGHTING	#12
#8	DOUBLE OVEN	8.0			60	2	27	28	1	20			1.0	LAWNSCAPE LIGHTING	#12
							29	30	1	20			0.6	EXT. BBQ OUTLET	#12
#10	DRYER	5.5			30	2	31	32	1	20				EXTERIOR WP/GFI.	#12
#12	WASHER	1.5			20	1	33	34						SPARE	
#12	LAUNDRY	1.5			20	1	35	36						SPARE	
	SPARE						37	38						SPARE	
	SPARE						39	40						SPACE	
	SPACE						41	42						SPACE	
SUBTOTAL CONNECTED LOADS		16.8	30.0	9.6							0.0	0	19.1		

TOTAL CONNECTED KVA= 67.7
APPLIANCE LOAD @ 100%= 35,600
LTS & RECEPTS. LOAD. @ 3W.S.F.= 8,676
OTHER LTS & RECEPTS. LOAD= 3,909
TOTAL OTHER LOADS= 48,185
FIRST 10KW @ 100%= 10,000
BALANCE @ 40%= 15,274

LARGEST OF THE FOLLOWING
A/C LOAD 8.6 KW @ 100% = -
HEAT LOAD 30.0 KW @ 65% = 19,500

GROUND BUS IS REQUIRED
KEYED DOOR LATCH IS NOT REQUIRED

TOTAL DEMAND KVA = 44.8
TOTAL DEMAND AMPS = 187
INTERRUPTING RATING 22,000 RMS

PANELBOARD B

RATED VOLTAGE 120/240, 1PH, 3WIRE
RATED AMPS 225
MAIN MAIN BREAKER
BRANCH POLES 42
BRANCH DEVICES PLUG-ON

LOCATION SEE PLAN
MOUNTING FLUSH
FEEDER CONDUCTORS (3)-4/0 THHN CU. & (1) - #2 GND.
FEEDING CONDUIT 2-1/2"
MANUF. CAT. NO. SQ. D. "NQOD"

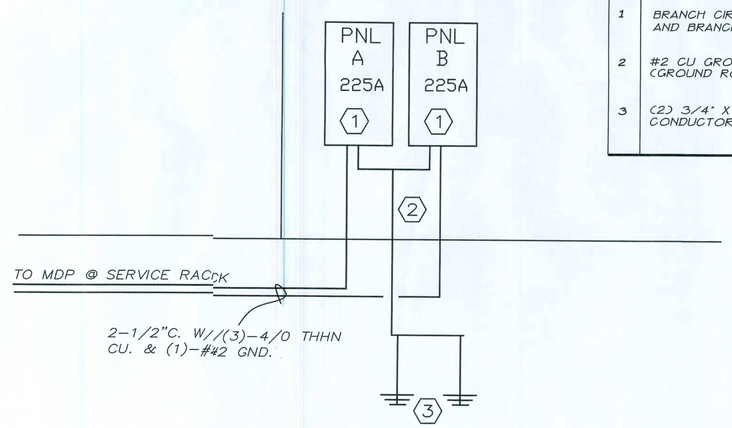
WIRE SIZE	DESCRIPTION	APPL KVA	HVAC KVA HEAT	HVAC KVA A/C	BREAKER TRIP	BREAKER POLE	CIRCUIT NUMBER		BREAKER POLE	BREAKER TRIP	HVAC KVA A/C	HVAC KVA HEAT	APPL KVA	DESCRIPTION	WIRE SIZE
#12	A.F.I. RECEPTS. - M. BED RM				20	1	1	2	1	20				GENERAL LIGHTING	#12
#12	A.F.I. RECEPTS - G. BED RM				20	1	3	4	1	20				GENERAL LIGHTING	#12
#12	G.F.I. - M. BATH / POWD. RM				20	1	5	6	1	20				GENERAL LIGHTING	#12
#12	G.F.I. - G. BATH				20	1	7	8	1	20				GENERAL LIGHTING	#12
#12	G.F.I. - TOILET				20	1	9	10	1	20				GENERAL LIGHTING	#12
#12	GENERAL RECEPTS.				20	1	11	12	1	20				GENERAL LIGHTING	#12
#12	GENERAL RECEPTS.				20	1	13	14	1	20				GENERAL LIGHTING	#12
#12	GENERAL RECEPTS.				20	1	15	16	1	20				GENERAL LIGHTING	#12
#12	GENERAL RECEPTS.				20	1	17	18	1	20				GENERAL LIGHTING	#12
#12	GENERAL RECEPTS.				20	1	19	20	1	20				GENERAL LIGHTING	#12
#12	GENERAL RECEPTS.				20	1	21	22	1	20				GENERAL LIGHTING	#12
#12	DEDICATED RECEPT. - OFFICE				20	1	23	24						SPARE	
#12	DEDICATED RECEPT. - OFFICE				20	1	25	26						SPARE	
	SPARE						27	28						SPARE	
	SPARE						29	30						SPARE	
	SPARE						31	32						SPARE	
	SPARE						33	34						SPARE	
	SPARE						35	36						SPARE	
	SPARE						37	38						SPARE	
	SPARE						39	40						SPARE	
	SPARE						41	42						SPARE	
SUBTOTAL CONNECTED LOADS		0.0	0.0	0.0							0.0	0	0.0		

TOTAL CONNECTED KVA= 8.7
APPLIANCE LOAD @ 100%= 0
LTS & RECEPTS. LOAD= 8.676
TOTAL OTHER LOADS= 8.676
FIRST 10KW @ 100%= 8.676
BALANCE @ 40%= 0

LARGEST OF THE FOLLOWING
A/C LOAD 0.0 KW @ 100% = -
HEAT LOAD 0.0 KW @ 65% = -

GROUND BUS IS REQUIRED
KEYED DOOR LATCH IS NOT REQUIRED

TOTAL DEMAND KVA = 8.7
INTERRUPTING RATING 22,000 RMS



ELECTRICAL RISER KEYNOTES

1	BRANCH CIRCUIT PANELS. SEE PANEL SCHEDULES FOR FEEDER, PANEL. AND BRANCH CIRCUIT SPECIFICATIONS.
2	#2 CU GROUNDING ELECTRODE CONDUCTOR BONDED TO MADE ELECTRODES (GROUND RODS). WATER PIPE AND BLDG. STEEL PER N.E.C.
3	(2) 3/4" X 10' CU GROUND RODS THERMALLY CONNECTED TO GROUNDING CONDUCTOR AND SPACED A MINIMUM 6 FEET APART.

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CERT. OF AUTH. NO. 4559

JOB #20055
MICHAEL A. TEELE, P.E.
ENGINEER OF RECORD
FLORIDA REGISTRATION
P.E. 32056
DATE: DEC 20 2007

8-3-07

the lawrence group
ARCHITECTS 205 WORTH AVENUE, PALM BEACH, FLORIDA 33480 P.H. (561) 655-0670

NEW RESIDENCE FOR
MR. AND MRS. WADE HORNSBY
HIGH SPRINGS, FLORIDA

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

E-2

f004

ELECTRICAL SPECIFICATIONS

1. GENERAL SPECIFICATIONS

A. GENERAL:
The requirements of the general, supplementary and special conditions of the contract specifications and drawings are hereby made a part of this section of the specifications. It is the intent of the plans and specifications to provide a complete and operating installation including all obviously necessary items even though items are not indicated on the drawings or specifications.

C. PERMITS, SALES TAX, ETC.:
The contractor shall secure and pay for all permits, State Sales Tax, Federal Excise Tax, royalties and other taxes or fees as required for installation of a complete system as outlined herein and as shown on the plans. The contractor shall secure all necessary licenses and insurance.

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2. RACEWAY

A. EMT:
May be used for all branch circuit wiring in areas above grade and within the the building. All EMT shall be galvanized. All EMT fittings shall be steel with set screws.

B. PVC:
Shall be schedule 40 high impact, UL approved, and shall be installed underground or in the slab.

C. RIGID CONDUIT:
Shall be used for all exterior installation where mechanical damage is possible.

3. WIRE AND CABLE

A. CONDUCTORS:
Shall be copper. Insulation shall be type THHN/THWN for ALL sizes. Minimum size wire No. 12, Conductors NO. 10 and larger are to be stranded. Branch conduit outlets shall be connected as indicated.

B. COLOR CODES:
Conductors shall be color coded throughout. Same color shall be used for branch circuit wiring of a given phase. Grounded conductors No. 4 AWG and larger may be Black, But shall be identified with colored tape in junction boxes, pull boxes, panels and service equipment.
(a) 120/240V or 120/208V systems
(1) Three wire circuits – one black, one red and one white
(2) Four wire circuits – one black, one red, one white, one blue.
(b) 277/480V systems –one brown, one orange, one yellow, one gray
(c) Continuity of neutrals of multi–wired branch circuits shall not be made on terminals of any device. This will assure no opening of neutral in replacement of device.

C. SPLICES:
(a)#10 and below – Scotchlok or equal
(b)#8 and larger – Not allowed

4. BOXES

A. OUTLET BOXES:
Section welded galvanized stamped steel for gang sizes required. Sectional boxes will not be acceptable. Boxes larger than standard shall be provided in accordance with the National Electrical Code where necessary to prevent crowding of wires.

B. FLOOR BOXES:
To be Carlon E971FB with E97ABR adapter for cast Bronze cover plates as manufactured by Steel City.

5. WIRING DEVICES

A. MOUNTING HEIGHTS:
(a)Switches at 4'0" or as noted
(b)Receptacles at 18" or as noted
(c)Telephone outlets at 18" or as noted

B. WALL SWITCHES:
Shall be intermediate grade, quiet–type, high performance switches rated at 15A.277v. Color and switch plates as directed by the Architect and Interior Decorator.

C. RECEPTACLES:
See general notes on this sheet for requirements.

D. POWER OUTLETS:
Leviton or Slater, type and size as noted.

E. DIMMER SWITCHES:
Shall be equal to Lutron #N – 1500 ML slide dimmer with touch – button on/off switch with Lutron #N – SML for three way control. Low voltage dimmers shall be Nova Series, load coordinated as required.

6. DISCONNECT SWITCHES

Shall be furnished with enclosures as required by exposures either NEMA 1 or 3R and shall be horsepower rated, heavy duty with fuses as noted.

B. NON–FUSIBLE DISCONNECT SWITCHES:
Shall be provided for all motors located out of sight of motor controller and where indicated on the drawings. Disconnect switches shall disconnect all ungrounded conductors.

C. FUSES:
To be furnished for fusible equipment. Motor fuses shall be bus fusetrons rated between 125 and 150 percent of motor name plate rating. Furnish extra set of spare fuses for each fused disconnect installed. Spare fuses to be placed within a fuse cabinet located in the electric room.

7. PANELBOARD, LOADCENTER

A. Loadcenters shall be as noted on plans with cover and typewritten directory inside of cover. Panelboards shall be the product of Cutler–Hammer or Square D.

8. LIGHTING FIXTURES

A. Unless otherwise noted, Light Fixtures will be furnished and installed as indicated on the lighting fixture schedule for installation by the electrical contractor.

9. IDENTIFICATION

A. Tag all conductors and identify major conduits in or at wireways, panels, pullboxes, switchboards, motor controllers, cabinets and similar items to assist in future circuit tracing. Conductor tags shall be nonconductive.

B. Identify all circuits and equipment to correspond with the plans and specifications.

10. CLEAN-UP

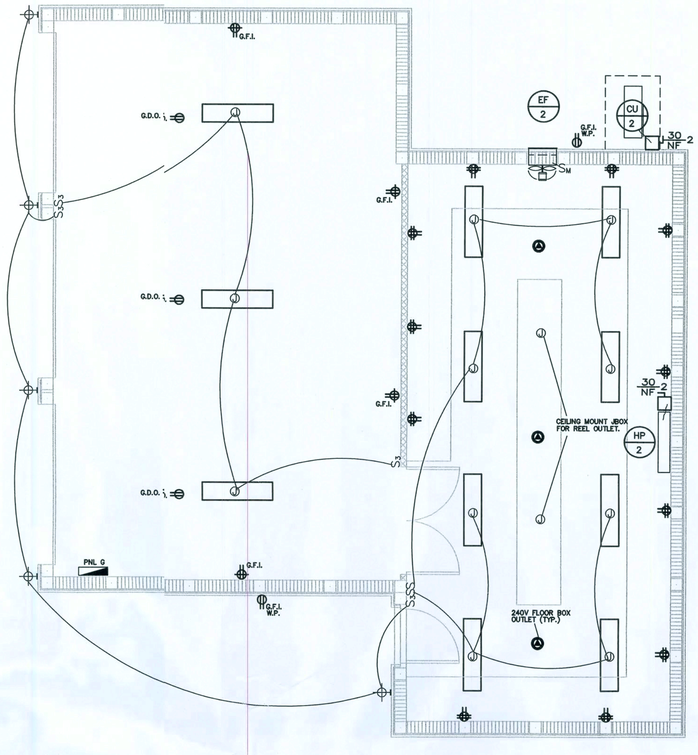
A. On completion of work, remove all excess material, equipment and debris. Leave workspace in clean condition.

ELECTRICAL LEGEND:

SYMOL	DESCRIPTION
$	SINGLE POLE SWITCH – 20A/120V.
$	3 – WAY SWITCH – 20A/120V.
$	4 – WAY SWITCH – 20A/120V
S	DOOR JAMB SWITCH FOR CLOSET LIGHTS
$	DIMMER SWITCH
$	3 – WAY DIMMER SWITCH
S	MOTOR SWITCH
	HALF–SWITCHED DUPLEX RECEPTACLE – 20A/125V
	DUPLEX RECEPTACLE @ 42" A.F.F. – 20A/125V
	DUPLEX RECEPTACLE – 20A/125V
	DUPLEX RECEPTACLE – 20A/125V
	QUADRAPLEX RECEPTACLE – 20A/125V
G.	DUPLEX RECEPTACLE – 20A/125V ISOLATED GROUND.
G.F.I.	DUPLEX RECEPTACLE – 20A/125V GROUND FAULT INTERRUPTER.
W.P.	OUTLET – WEATHERPROOF.
	POWER OUTLET – VOLTAGE & SIZE AS NOTED.
	FLOORBOX WITH DUPLEX RECEPTACLE 20A/125V.
	DISCONNECT, VOLTAGE & SIZE AS NOTED.
J	JUNCTION BOX
	TELEPHONE OUTLET–WALL MOUNTED. EACH OUTLET TO HAVE 3/4"C W/PULL STRING ROUTED BACK TO TELEPHONE BOARD.
FAX	FAX OUTLET–WALL MOUNTED. EACH OUTLET TO HAVE 3/4"C W/PULL STRING ROUTED BACK TO TELEPHONE BOARD.
	PANEL, SIZE & VOLTAGE – SEE PANEL SCHEDULE.
TV	TELEVISION OUTLET. EACH OUTLET TO HAVE 1"C W/PULL STRING ROUTED BACK TO TELEPHONE BOARD.
C	COMPUTER TERMINAL. EACH OUTLET TO HAVE 3/4"C W/PULL STRING ROUTED BACK TO TELEPHONE BOARD.
S	SMOKE DETECTOR

LIGHTING FIXTURE LEGEND:

SYMOL	DESCRIPTION
	RECESSED DOWN LIGHT
	RECESSED WALL WASHER
	SURFACE MOUNTED LIGHT FIXTURE (CEILING)
	SURFACE MOUNTED PENDANT LIGHT FIXTURE (CEILING)
	SURFACE MOUNTED LIGHT FIXTURE (WALL)
	SURFACE MOUNTED DUAL FLOOD LIGHTS
	SINGLE TUBE FLUORESCENT LIGHT FIXTURE - NO LENS
	2 TUBE SURFACE MOUNT FLUORESCENT LIGHT FIXTURE
	CEILING FAN



ELECTRICAL FLOOR PLAN

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

ELECTRICAL KEYNOTES

1. ALL QUAD OUTLETS SHOWN IS TO BE 44" A.F.F.
2. FURNISH AND INSTALL (3)-240V FLOOR BOX OUTLETS FOR FUTURE USES, COORDINATE WITH OWNER AND FIELD VERIFY LOCATIONS. SPECIFY CARLON #EF71F3

PANELBOARD G

RATED VOLTAGE	120/240, 1PH, 3WIRE	LOCATION	SEE PLAN
RATED AMPS	200	MOUNTING	FLUSH
MAIN	MAIN BREAKER	FEEDER CONDUCTORS	(3)-3/0 THHN CU.
BRANCH POLES	42	FEEDING CONDUIT	2"
BRANCH DEVICES	PLUG-ON	MANUF. CAT. NO.	SQ. D. "QO"

WIRE SIZE	DESCRIPTION	APPLIN KVA	HVAC KVA HEAT	HVAC KVA A/C	BREAKER TRIP	BREAKER POLE	CIRCUIT NUMBER		BREAKER POLE	BREAKER TRIP	HVAC KVA A/C	HVAC KVA HEAT	APPLIN KVA	DESCRIPTION	WIRE SIZE
#12	GARAGE DOOR OPENER	1.0			20	1	1	2	2	20		2.6		HP	#12
#12	GARAGE DOOR OPENER	1.0			20	1	3	4							
#12	GARAGE DOOR OPENER	1.0			20	1	5	6	2	20	2.4			COND. UNIT	#12
#12	GARAGE G.F.I.'S				20	1	7	8							
#12	SHOP QUADS / APPL. OUTLETS	1.5			20	1	9	10	2	30			5.0	240V FLOOR BOX/ EQUIP. OUTLET	#10
#12	SHOP QUADS / APPL. OUTLETS	1.5			20	1	11	12							
#12	SHOP QUADS / APPL. OUTLETS	1.5			20	1	13	14	2	30			5.0	240V FLOOR BOX/ EQUIP. OUTLET	#10
#12	SHOP QUADS / APPL. OUTLETS	1.5			21	2	15	16							
#12	SHOP QUADS / APPL. OUTLETS	1.5			22		17	18	2	30			5.0	240V FLOOR BOX/ EQUIP. OUTLET	#10
#12	SHOP QUADS / APPL. OUTLETS	1.5			20	1	19	20							
#12	GENERAL LIGHTING				20	1	21	22	2	30			4.5	INSTA HOT (FUTURE)	#10
#12	GENERAL LIGHTING				20	1	23	24							
	SPARE				20	1	25	26	1	20			0.5	SHOP EXHAUST FAN	#12
	SPARE				20	1	27	28	1	20				SPARE	
	SPARE				20	1	29	30	1	20				SPARE	
	SPARE				20	1	31	32	1	20				SPARE	
	SPARE				20	1	33	34	1	20				SPARE	
	SPARE				20	1	35	36	1	20				SPARE	
	SPARE				20	1	37	38	1	20				SPARE	
	SPACE						39	40						SPACE	
	SPACE						41	42						SPACE	
SUBTOTAL CONNECTED LOADS		12.0	0.0	0.0							2.4	3	20.0		

TOTAL CONNECTED KVA= 35.5
APPLIANCE LOAD @ 10%= 32,000
LTS & RECEPTS. LOADS @ 3VA/S.F.= 3,528
TOTAL OTHER LOADS= 35,528
FIRST 10KW @ 100%= 10,000
BALANCE @ 40%= 10,211

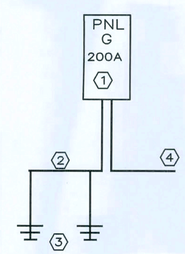
LARGEST OF THE FOLLOWING
A/C LOAD 2.4 KW @ 100% = 2,400
HEAT LOAD 2.5 KW @ 65% = -

TOTAL DEMAND KVA = 22.8
TOTAL DEMAND AMPS = 94.2
INTERRUPTING RATING 22,000 RMS

GROUND BUS IS REQUIRED
KEYED DOOR LATCH IS NOT REQUIRED

ELECTRIC RISER KEYNOTES

1. BRANCH CIRCUIT PANELS. SEE PANEL SCHEDULES FOR FEEDER, PANEL, AND BRANCH CIRCUIT SPECIFICATIONS.
2. #4 CU GROUNDING ELECTRODE CONDUCTOR BONDED TO MADE ELECTRODES (GROUND RODS), WATER PIPE AND BLDG. STEEL PER N.E.C.
3. (2) 3/4" X 20' CU GROUND RODS THERMALLY CONNECTED TO GROUNDING CONDUCTOR AND SPACED A MINIMUM 6 FEET APART.
4. 2" CONDUIT WITH (3)-3/0 THHN CU. CONDUCTOR FROM SERVICE RACK MAIN SERVICE PANEL.



ELECTRICAL RISER DIAGRAM

NOT TO SCALE

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CERT. OF AUTH. NO. 4659

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DATE: DEC 20 2007

6-18-08

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MR. AND MRS. WADE HORNSBY
COLUMBIA COUNTY FLORIDA

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

E-3

6004

MAIN SERVICE PANEL

RATED VOLTAGE 120/240V, 1 PHASE, 3 WIRE
RATED AMPS 400
MAIN LUGS ONLY
BRANCH POLES 16
BRANCH DEVICES PLUG-ON

LOCATION SERVICE RACK
MOUNTING SURFACE - NEM 3R
FEEDER CONDUCTORS (6)-4/0 THHN U
FEEDING CONDUIT 3"
MANUF. CAT. NO. SQ. D "HCM"

WIRE SIZE	DESCRIPTION	BREAKER TRIP	BREAKER POLE	CIR. NUM.		BREAKER POLE	BREAKER TRIP	DESCRIPTION	WIRE SIZE
3/0	GUEST HOUSE	200	2	1	2	2	200	TEMP POWER PANEL	3/0
				3	4				
3/0	SHOP	200	2	5	6	2	–	SPACE	–
				7	8				
4/0	MAIN HOUSE PNL "A"	200	2	9	10	2	–	SPACE	–
				11	12				
4/0	MAIN HOUSE PNL "B"	200	2	13	14	2	60	SURGE SUPPRESSION MODULI	#6
				15	16				

DEMAND KVA –
INTERUPTING RATING 10,000 RMS SYM.

GROUND BUS IS REQUIRED
KEYED DOOR LATCH IS NOT FQUIRED
FEED TO BE BOTTOM

TEMP SITE PANEL

RATED VOLTAGE 120/240V, 1 PHASE, 3 WIRE
RATED AMPS 200
MAIN LUGS ONLY
BRANCH POLES 30
BRANCH DEVICES PLUG-ON

LOCATION SERVICE RACK
MOUNTING SURFACE
FEEDER CONDUCTORS (3)-3/0 THHN U
FEEDING CONDUIT 2"
MANUF. CAT. NO. SQ. D "QO130L200RB"

WIRE SIZE	DESCRIPTION	BREAKER TRIP	BREAKER POLE	CIR. NUM.		BREAKER POLE	BREAKER TRIP	DESCRIPTION	WIRE SIZE
#12	SERVICE RECEPTACLE	20	1	1	2	2	80	IRRIGATION PANEL	#4
#12	SERVICE RECEPTACLE	20	1	3	4				
–	–	20	1	5	6	1	20	–	–
–	–	20	1	7	8	1	20	–	–
–	–	20	1	9	10	1	20	–	–
–	–	20	1	11	12	1	20	–	–
–	–	20	1	13	14	1	20	–	–
–	–	20	1	15	16	1	20	–	–
–	–	20	1	17	18	1	20	–	–
–	–	20	1	19	20	1	20	–	–
–	–	20	1	21	22	1	20	–	–
–	–	20	1	23	24	1	20	–	–
–	–	20	1	25	26	1	20	–	–
–	–	20	1	27	28	1	20	–	–
–	–	20	1	29	30	1	20	–	–

DEMAND KVA –
INTERUPTING RATING 10,000 RMS SYM.

GROUND BUS IS REQUIRED
KEYED DOOR LATCH IS NOT FQUIRED
FEED TO BE BOTTOM

IRRIGATION PANEL

RATED VOLTAGE 120/240V, 1 PHASE, 3 WIRE
RATED AMPS 100
MAIN LUGS ONLY
BRANCH POLES 20
BRANCH DEVICES PLUG-ON

LOCATION SEE PLAN
MOUNTING SURFACE
FEEDER CONDUCTORS (3)-#8 THWN C
FEEDING CONDUIT 1 1/2"
MANUF. CAT. NO. SQ. D "QO11624125GRB"

WIRE SIZE	DESCRIPTION	BREAKER TRIP	BREAKER POLE	CIR. NUM.		BREAKER POLE	BREAKER TRIP	DESCRIPTION	WIRE SIZE
#12	CONST. SITE RECEPTACLE GFI	20	1	1	2	2	60	5HP IRRIGATION PUMP	#8
#12	CONST. SITE RECEPTACLE GFI	20	1	3	4				
#12	CONST. SITE RECEPTACLE GFI	20	1	5	6	1	20	–	–
#12	CONST. SITE RECEPTACLE GFI	20	1	7	8	1	20	–	–
–	–	20	1	9	10	1	20	–	–
–	–	20	1	11	12	1	20	–	–
–	–	20	1	13	14	1	20	–	–
–	–	20	1	15	16	1	20	–	–

DEMAND KVA –
INTERUPTING RATING 10,000 RMS SYM.

GROUND BUS IS REQUIRED
KEYED DOOR LATCH IS NOT FQUIRED
FEED TO BE BOTTOM

ALL NUMBERS ARE SQUARE D

MAIN POWER PANEL
(1) HCM144B4
(1) HC3246WP
(1) HC4SN
(1) HNM1BL
(1) HNM4BL
(1) PG32DGTA
(1) QBA22200AB
(1) FA222060AB

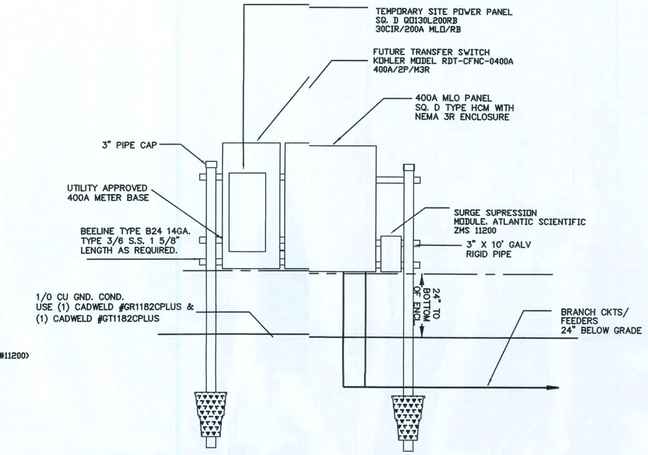
TEMPORARY SITE PANEL
(1) QO130L200GRB
(1) QO290
(2) QO120GFI

IRRIGATION PANEL
(1) QO11624L125GRB
(1) QO260
(4) QO120GFI

MAIN DISCONNECT
(1) H225NR
(2) PKDGTA2
(1) HRK4060
(2) KTNR400 (BUSSMAN)

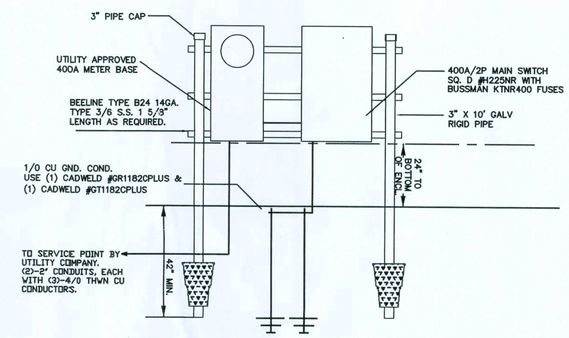
GROUNDING
(4) 3/4" X 10' GROUND RODS
(2) CADWELD GT1182CPLUS
(2) CADWELD GR1182CPLUS
(1) CADWELD PLUSCU

SURGE SPPRESSION MODULE
ATLANTIC SCIENTIFIC ZMS-150 (CAT#11200)



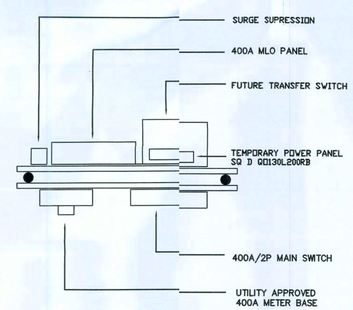
SERVICE RACK - FRONT SIDE

NOT TO SCALE



SERVICE RACK - BACK SIDE

NOT TO SCALE



SERVICE RACK -- TOP VIEW

NOT TO SCALE

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MR. AND MRS. WADE HORNSBY
COLUMBIA COUNTY FLORIDA

SERVICE RACK DETAIL
SCALE: NONE

E-4

6004