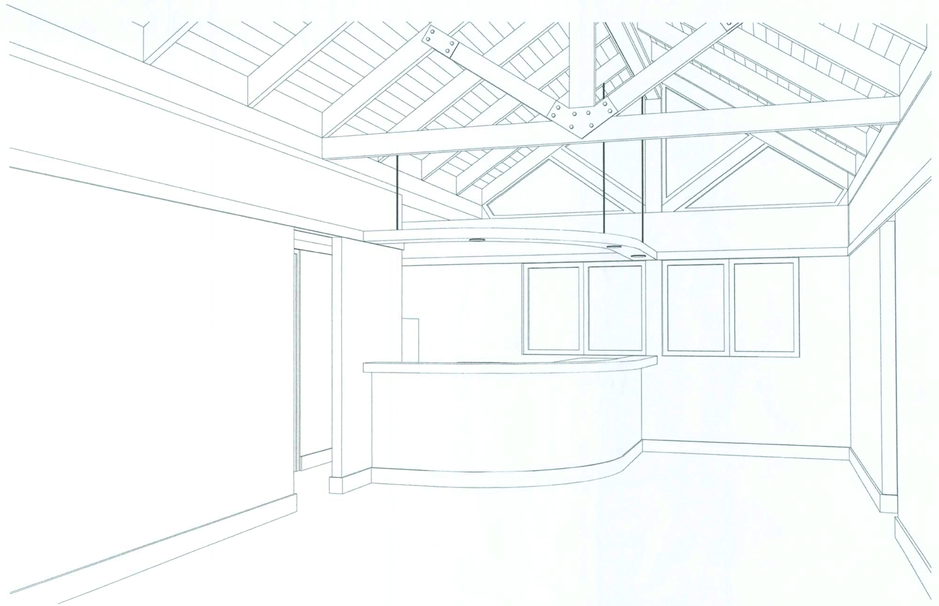
SOUTH SIDE PERSPECTIVE



INTERIOR PERSPECTIVE

NORTH SIDE PERSPECTIVE

RESIDENCE FOR

MR. & MRS. WADE HORNSBY

COLUMBIA COUNTY, FLORIDA

ARCHITECT:	THE LAWRENCE GROUP
STRUCTURAL ENGINEER:	HUSTAD STRUCTURAL ENGINEERING, LLC
MECHANICAL ENGINEER ELECTRICAL ENGINEER:	TEELE AND ASSOCIATES

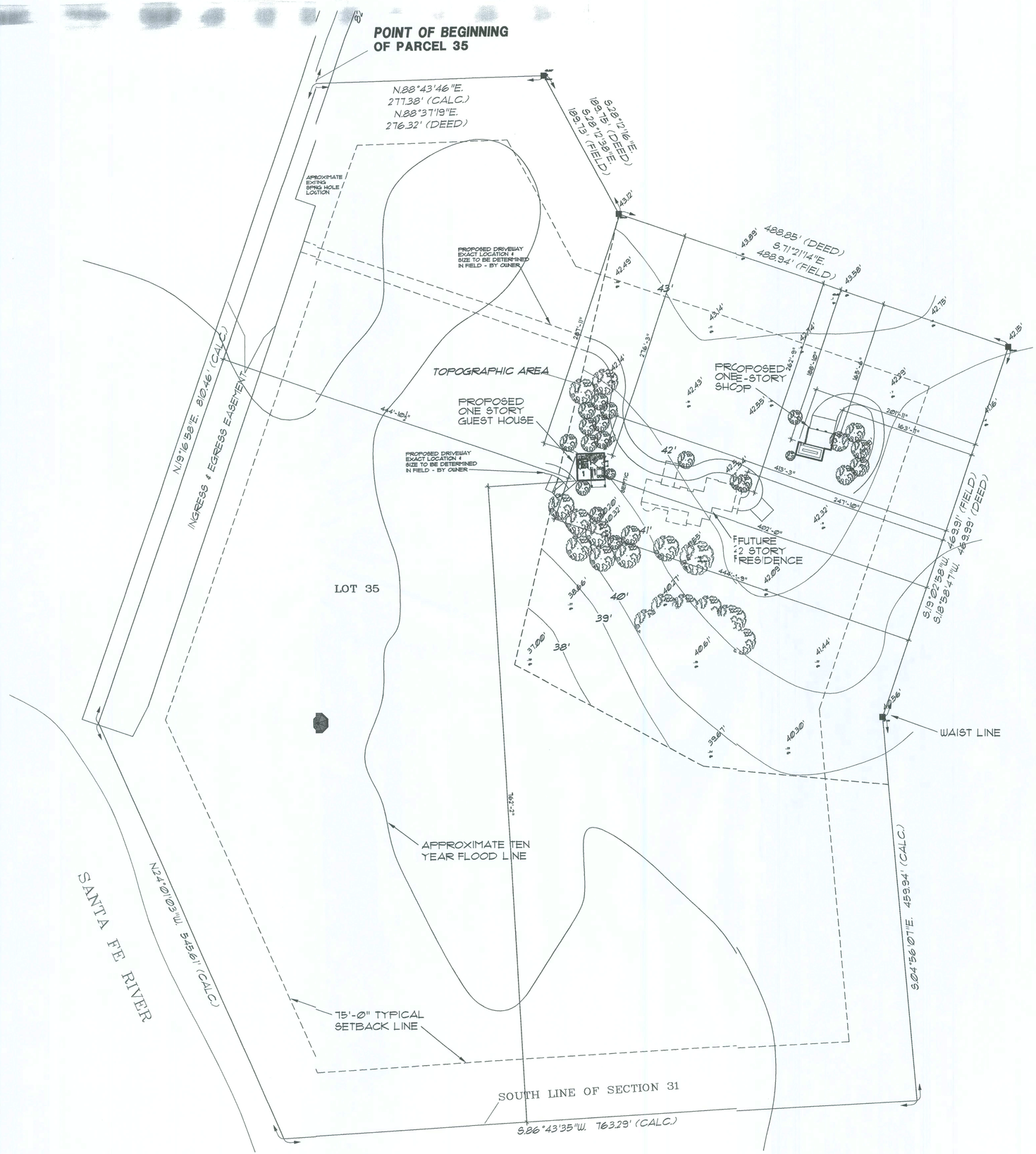
the lawrence group
ARCHITECTS 205 WORTH AVENUE, PALM BEACH, FLORIDA 33480 P.H. (561) 655-0670

4-28-08

NEW RESIDENCE FOR
MR. AND MRS. WADE HORNSBY
BLUEBIRD PRESERVE
COLUMBIS COUNTY
FLORIDA

GUEST HOUSE
SCALE: NTS

8004



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°41'10"E., A DISTANCE OF 13.1 FEET± THENCE N.88°22'58"E., A DISTANCE OF 816.00 FEET± THENCE S.01°45'20"E., A DISTANCE OF 436.30 FEET± THENCE N.89°38'00"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.11°21'14"E., 488.85 FEET± THENCE S.18°58'47"W. 463.99 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 22.88 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 114.21 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 125.14 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 282.26 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°51'20", 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 88.18 FEET± THENCE S.00°59'34"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 143.94 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°41'03"E., AND A CHORD LENGTH OF 87.61 FEET± THENCE ALONG THE ARC OF SAID CURVE, AN ARC DISTANCE OF 87.81 FEET± THENCE S.04°59'31"W., A DISTANCE OF 125.00 FEET TO A POINT HEREINAFTER REFERRED TO AS POINT "B"± THENCE CONTINUE S.04°59'31"W., A DISTANCE OF 59.21 FEET TO THE POINT OF CURVATURE OF A CURVE TO THE LEFT, HAVING: A RADIUS OF 80.00 FEET, A CENTRAL ANGLE OF 25°22'11", 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 370.00 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 129.13 FEET± THENCE ALONG THE ARC OF SAID CURVE, AN ARC DISTANCE OF 1284.25 FEET± THENCE S.00°37'02"E., A DISTANCE OF 172.66 FEET TO A POINT 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 41°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°13'11"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 183.61 FEET TO THE POINT OF CURVATURE OF A CURVE TO THE LEFT, HAVING: A RADIUS OF 330.00 FEET, A CENTRAL ANGLE OF12°59'26", A TANGENT LENGTH OF 37.51 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 POINT BEING A POINT OF TERMINATION OF SAID CENTERLINE. THENCE BEGIN AT THE AFOREMENTIONED POINT "A", AND RUN THENCE N.81°32'48"E., A DISTANCE OF 521.29 FEET± THENCE N.87°14'29"E., A DISTANCE OF 627.20 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 A AFOREMENTIONED POINT "B", AND RUN THENCE S.84°24'22"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 156.12 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 154.80 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°18'41"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°31'31", 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 148.42 FEET± THENCE N.01°41'46"W., A DISTANCE OF 568.91 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°18'41"E., A DISTANCE OF 46.91 FEET TO THE POINT OF CURVATURE OF A CURVE TO THE RIGHT, HAVING: A RADIUS OF 105.00 FEET, A CENTRAL ANGLE OF 42°33'21", A TANGENT LENGTH OF 40.89 FEET, A CHORD BEARING OF S.23°01'04"E., AND A CHORD LENGTH OF 76.21 FEET± THENCE ALONG THE ARC OF SAID CURVE, AN ARC DISTANCE OF 77.98 FEET± THENCE S.01°48'20"E., A DISTANCE OF 1910.14 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 72.38 FEET± THENCE ALONG THE ARC OF SAID CURVE, AN ARC LENGTH OF 72.51 FEET± THENCE N.71°22'21"E., A DISTANCE OF 354.10 FEET± THENCE N.11°56'34"E., 62.11 FEET± THENCE S.66°25'41"E., A DISTANCE OF 207.86 FEET± THENCE S.89°03'41"E., 142.06 FEET± THENCE N.81°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 160.41 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.81°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°36'50"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 647.91

FEET± THENCE N.85°51'47"E., 105.01 FEET TO THE NORTHWEST CORNER OF THE SE¼ OF THE SE¼ OF SAID SECTION 31± THENCE CONTINUE N.85°51'47"E., A DISTANCE OF 141.00 FEET± THENCE CONTINUE N.85°51'47"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°16'58"W., A DISTANCE OF 1823.87 FEET± THENCE S.76°43'02"E., A DISTANCE OF 64.28 FEET± THENCE N.21°29'42"E., A DISTANCE OF 40.56 FEET± THENCE N.18°54'42"E., A DISTANCE OF 631.88 FEET± THENCE N.76°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.

NOTE:
GRADES SHOWN ARE ALL EXISTING GRADES

4-6-07	PERMIT ISSUE	

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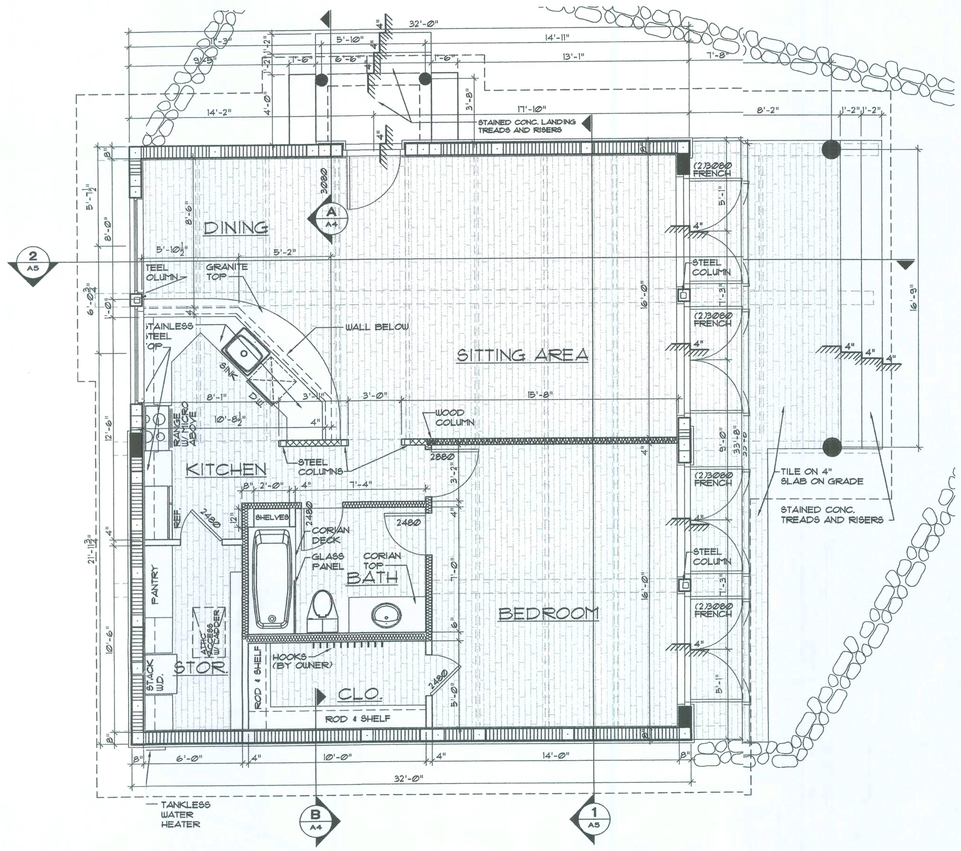
MR. AND MRS. WADE HORNSBY
COLUMBIA COUNTY FLORIDA

SITE PLAN
SCALE:1"=60'

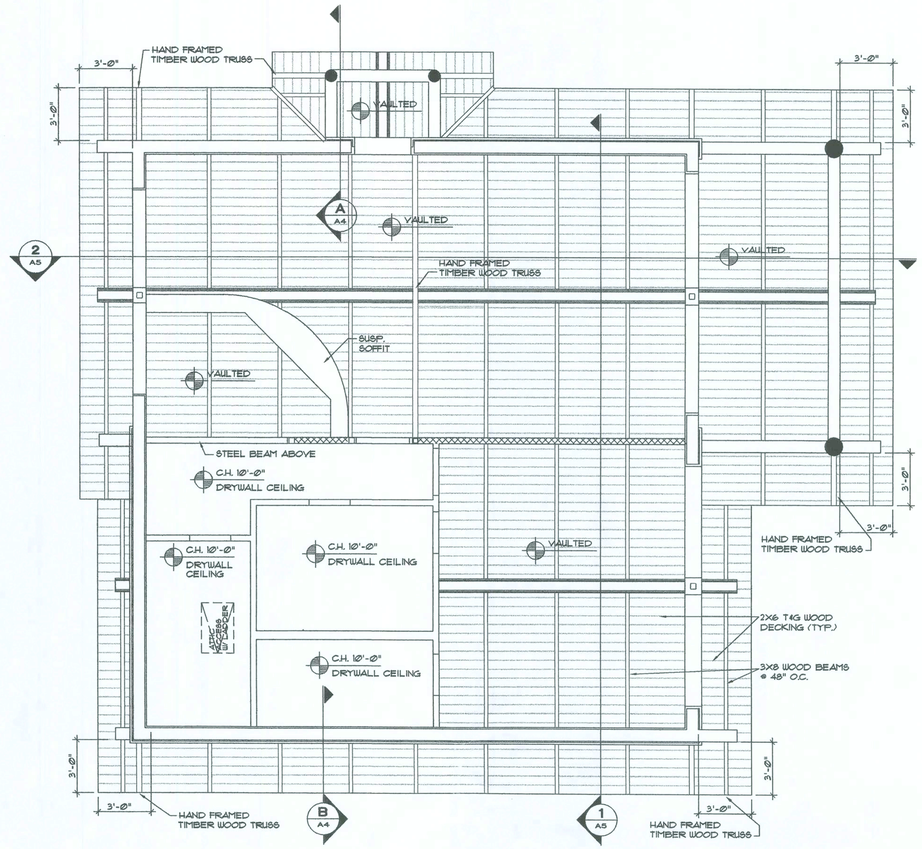
A1

6004



FLOOR PLAN

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



REFLECTED CEILING PLAN

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

GENERAL NOTES:

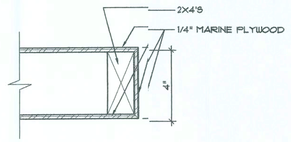
01. ALL WORK TO CONFORM TO ALL APPLICABLE CODES AND ORDINANCES.
02. ALL WORK TO BE COMPLETE, IN PLACE, AND READY FOR USE.
03. ALL WORK SHALL BE PERFORMED IN A FIRST CLASS WORKMANLIKE MANNER.
04. VISIT THE SITE BEFORE DETERMINING THE CHARACTERISTICS OF THE SITE WHICH WILL AFFECT PERFORMANCE OF THE WORK, BUT WHICH ARE NOT SHOWN ON THE DRAWINGS OR THE SPECIFICATIONS.

CODES AND STANDARDS:

01. THE PROJECT WAS DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE 2004 EDITION - RESIDENTIAL.

WALL TYPE LEGEND

- 3 5/8" METAL STUDS W/ 5/1/8" DRYWALL EACH SIDE
- 3 5/8" METAL STUDS W/ 5/1/8" 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



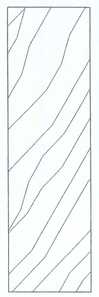
SUSP. SOFFIT @ KITCHEN

SCALE: 3" = 1'-0"

FINISH SCHEDULE

ROOM	FLOOR	BASE	WALLS	CEILING
COVERED ENTRY	STAINED CONCRETE	-	STUCCO / STONE	WOOD
DINING	CERAMIC TILE	WOOD	DRYWALL	WOOD
SITTING ROOM	CERAMIC TILE	WOOD	DRYWALL	WOOD
KITCHEN	CERAMIC TILE	WOOD	DRYWALL	WOOD / DRYWALL
STORAGE	CERAMIC TILE	WOOD	DRYWALL	DRYWALL
BEDROOM	CERAMIC TILE	WOOD	DRYWALL	WOOD
BATH	CERAMIC TILE	WOOD	DRYWALL	DRYWALL
CLOSET	CERAMIC TILE	WOOD	DRYWALL	DRYWALL
COVERED PATIO	CERAMIC TILE	-	STUCCO / STONE	WOOD

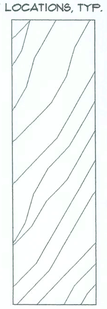
USE "DUROCK" IN ALL WET LOCATIONS, TYP.



TYP. FRONT DOOR

NOT TO SCALE

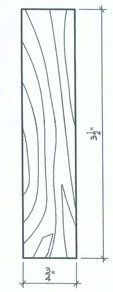
1 3/4" THICK SOLID CORE, FLUSH PANEL WOOD DOOR AS SELECTED BY OWNER



TYP. INT. DOOR

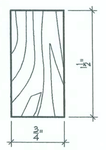
NOT TO SCALE

1 3/4" THICK SOLID CORE, FLUSH PANEL WOOD DOOR PAINT GRADE



TYP. BASE

FULL SCALE



TYP. DOOR CASING

FULL SCALE

3-30-07

the lawrence group

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

MR. AND MRS. WADE HORNSBY

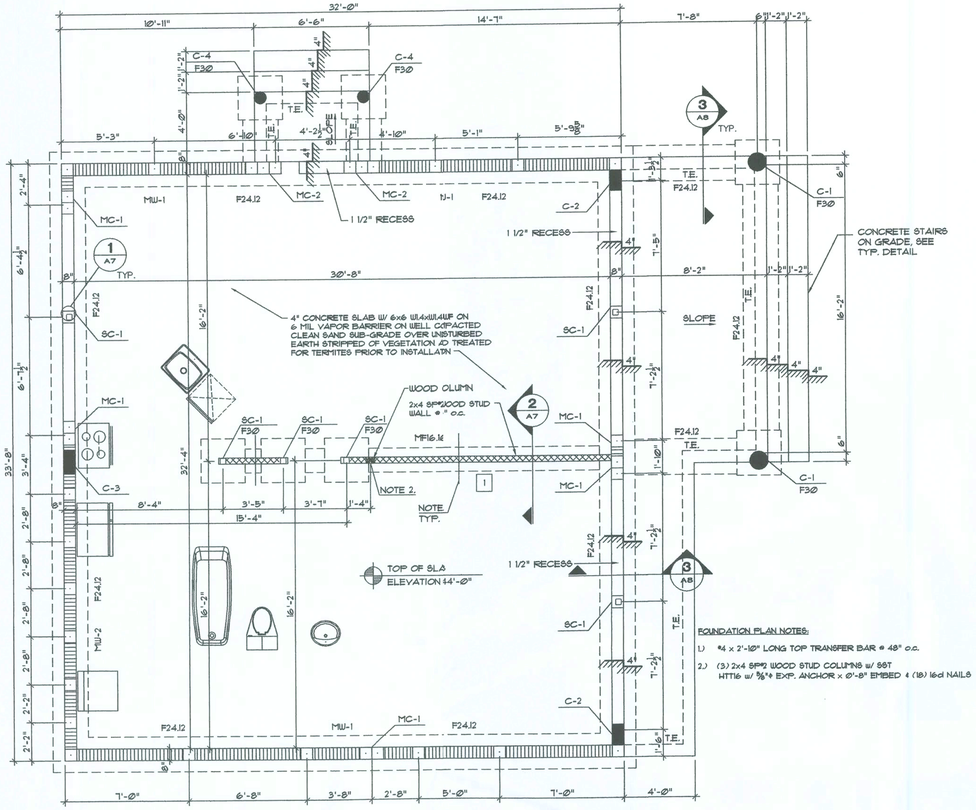
COLUMBIA COUNTY FLORIDA

FLOOR PLANS

SCALE 1/4"=1'-0"

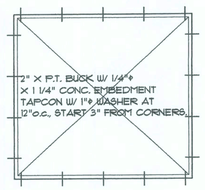
A2

6004

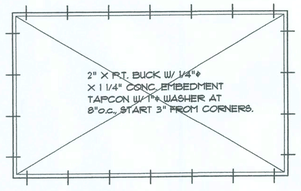


FOUNDATION PLAN

SCALE: 1/4" = 1'-Ø" GUES COTTAGE



WINDOW & DOOR OPENINGS 6'-6" WIDE AND SMALLER

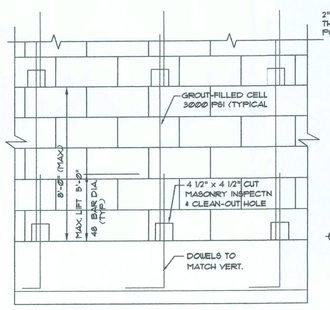


WINDOW & DOOR OPENINGS 7'-Ø" WIDE AND LARGER

TYPICAL WOODBUCK DETAIL

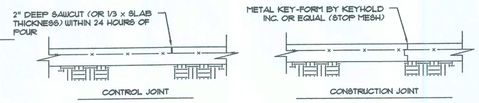
1. EXTERIOR GLAZED OPENINGS IN BUILDINGS SHALL COMPLY WITH FBC 1606 BY EITHER BEING DESIGNED FOR IMPACT RESISTANCE OR BEING PROTECTED BY IMPACT PROTECTIVE SYSTEMS.

2. BUCKS TO BE FASTENED HORIZONTALLY AND VERTICALLY TO CONCRETE BEAMS AND COLUMNS OR CONCRETE FILLED MASONRY. G.C. TO COORDINATE OPENING DIMENSIONS.



TYPICAL MASONRY FILLED CELLDETAIL

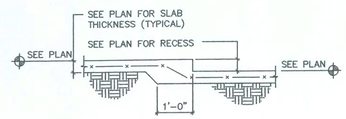
NTS



TYPICAL SLAB-ON-GRADE

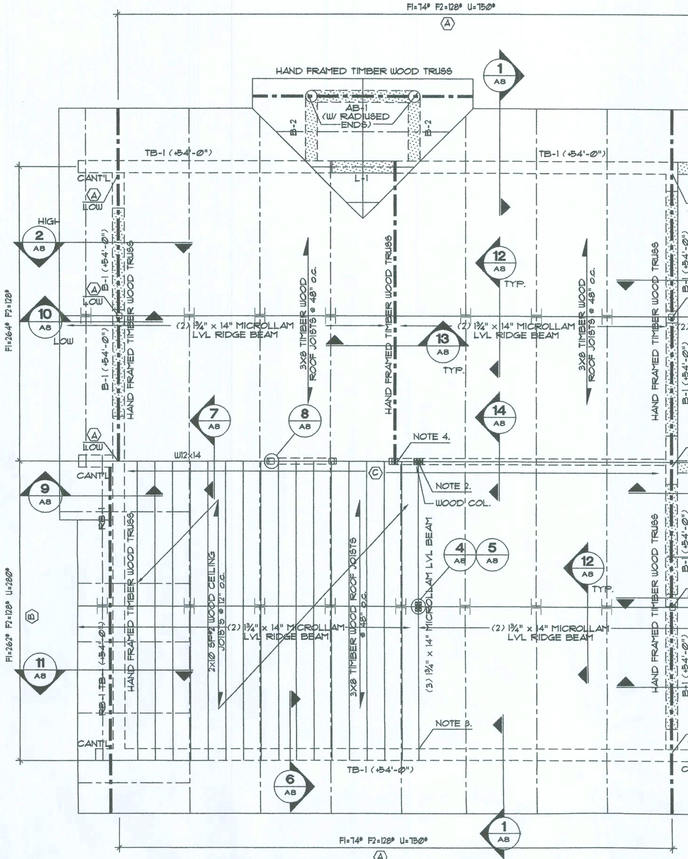
NOTE: CONTROL JOINTS CONSTRUCTION JOINTS SHALL CREATE PANELS OF 400 SQ. FEET (MAXIMUM)

N.T.S.



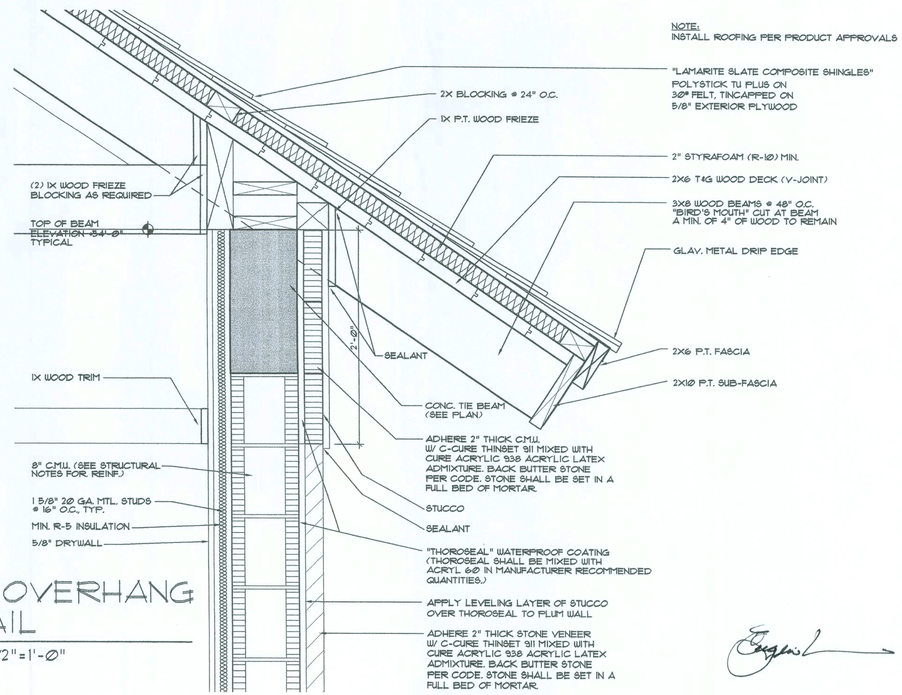
TYPICAL SLAB RECESS

N.T.S.



ROOF FRAMING PLAN

SCALE: 1/4" = 1'-Ø" GUEST COTTAGE



TYP. OVERHANG DETAIL

SCALE: 1 1/2"=1'-Ø"

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ARCHITECTS 205 WORTH AVENUE, PALM BEACH, FLORIDA 33480 P.H. (561) 655-0870

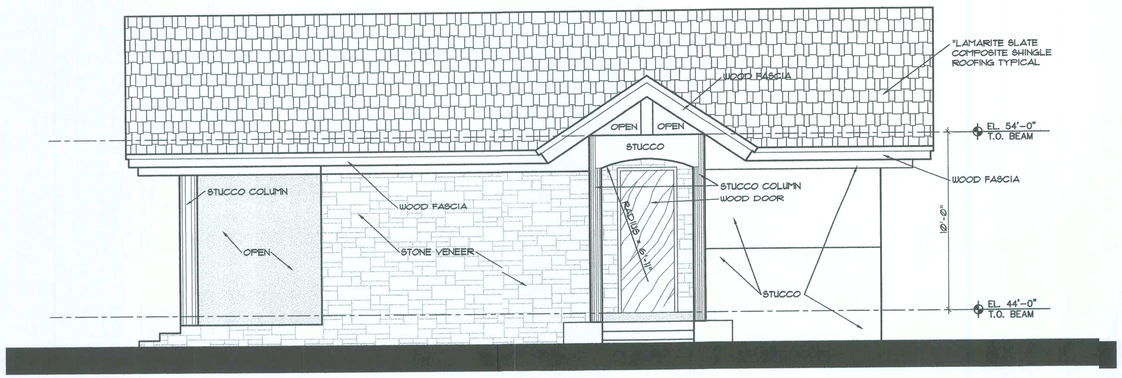
4-5-07	PERMIT ISSUE

MR. AND MRS. WADE HORNSBY
COLUMBIA COUNTY FLORIDA

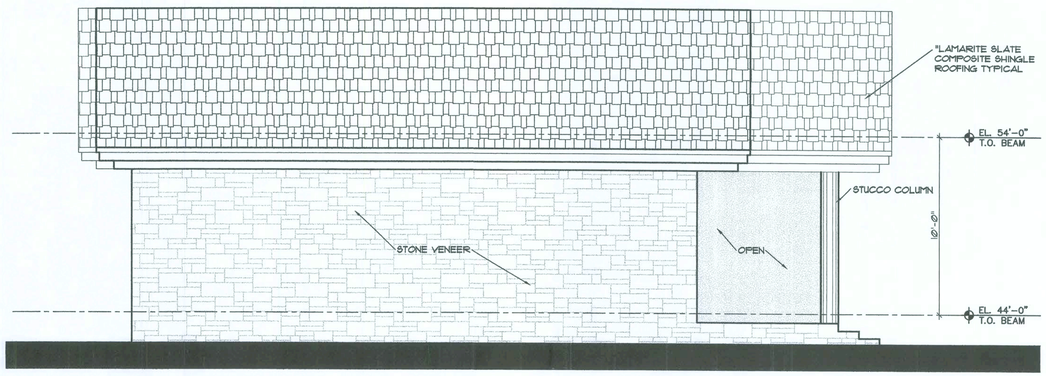
FLOOR PLANS
SCALE:1/4"=1'-0"

A3

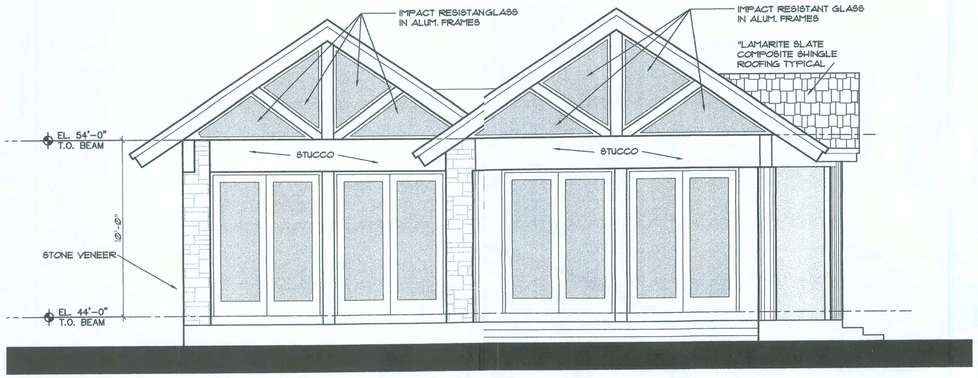
6004



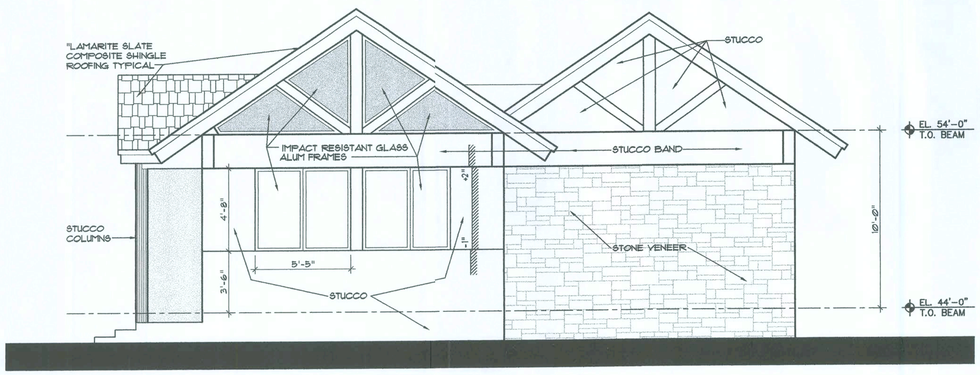
EAST ELEVATION



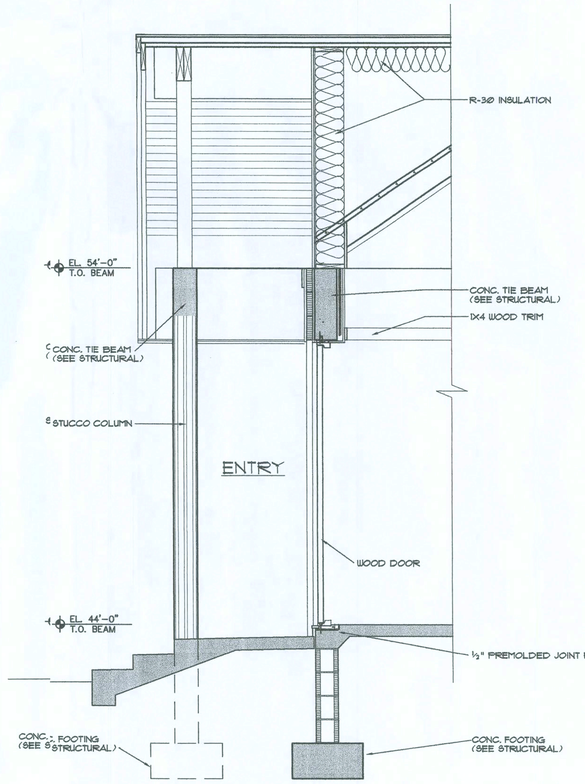
WEST ELEVATION



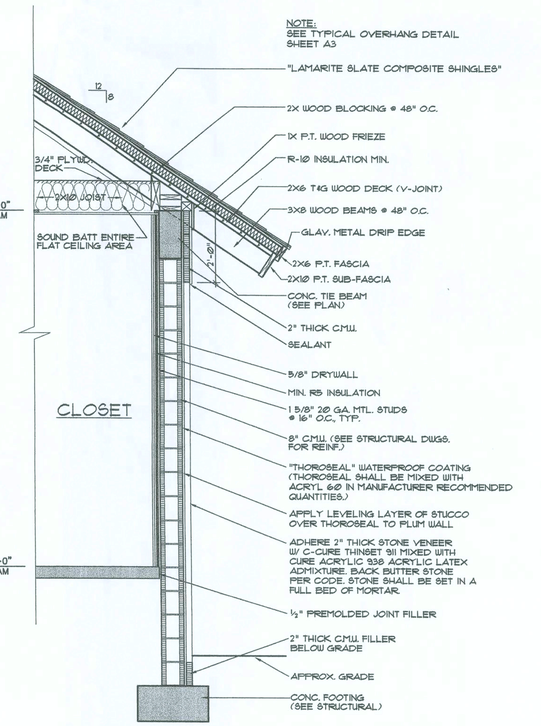
SOUTH ELEVATION



NORTH ELEVATION



A/A4 WALL SECTION
SCALE: 1/2" = 1'-0"
GUEST HOUSE



B/A4 WALL SECTION
SCALE: 1/2" = 1'-0"
GUEST HOUSE

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4-8-07	PERMIT ISSUE

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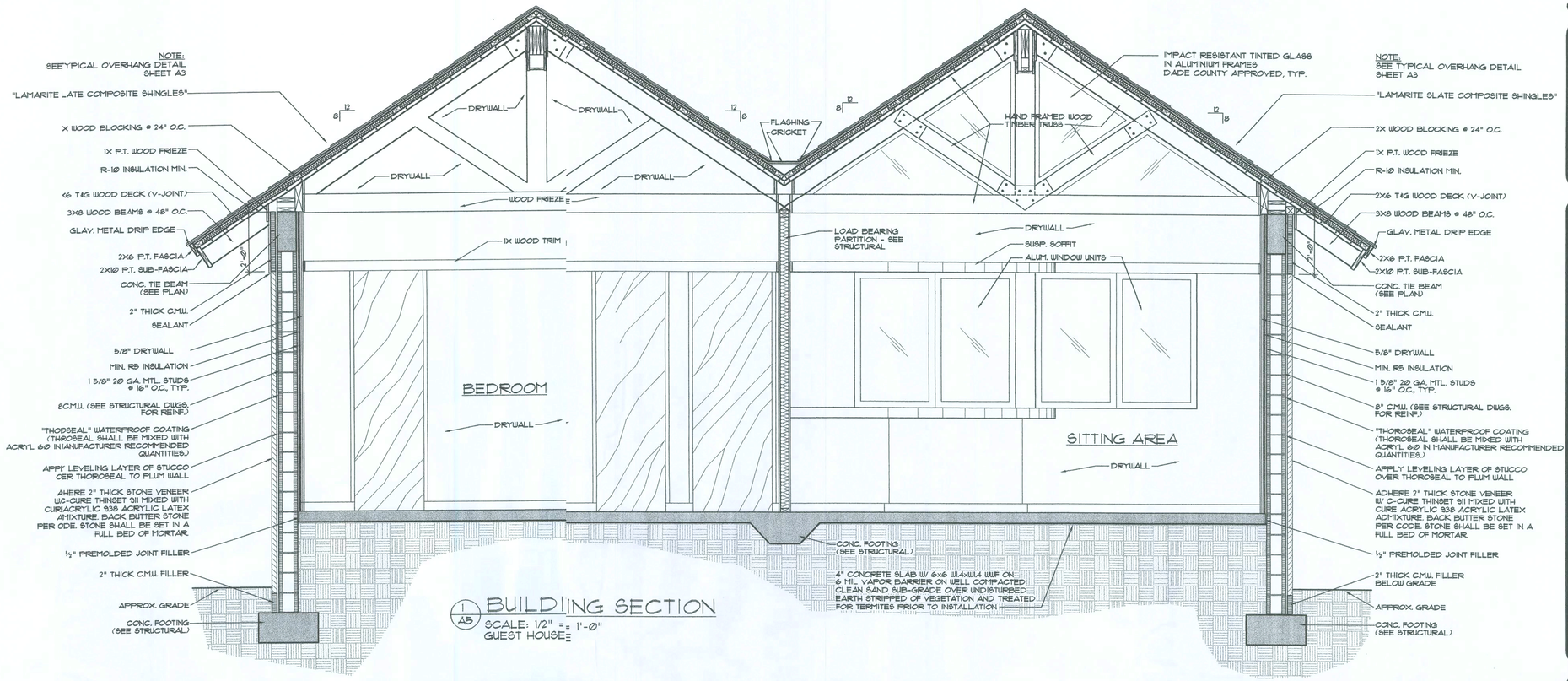
COLUMBIA COUNTY FLORIDA

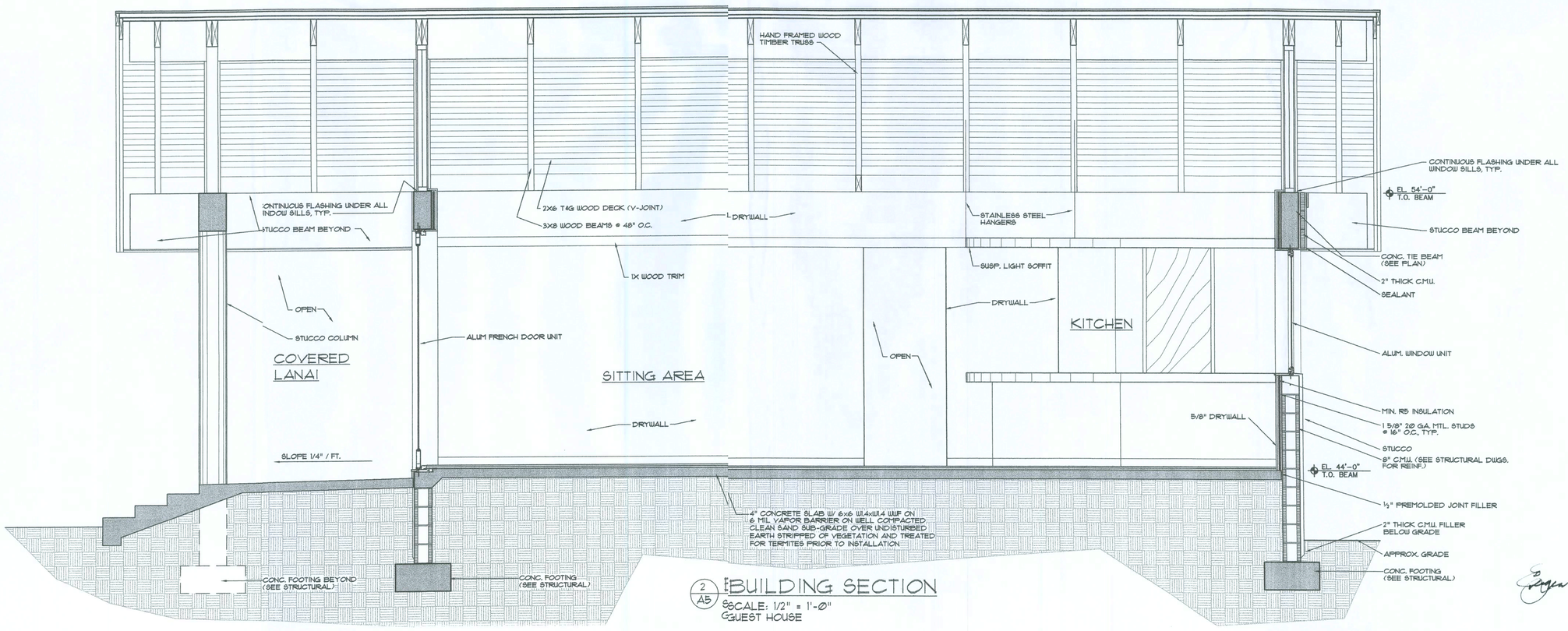
FLOOR PLANS
SCALE:1/4"=1'-0"

A4

6004



1/A5 BUILDING SECTION
SCALE: 1/2" = 1'-0"
GUEST HOUSE



2/A5 BUILDING SECTION
SCALE: 1/2" = 1'-0"
GUEST HOUSE

PERMIT ISSUE	4-8-07

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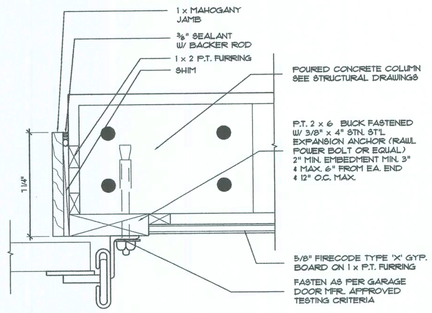
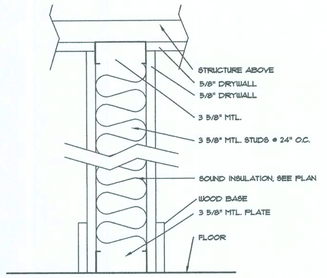
SECTIONS
SCALE AS NOTED

A5

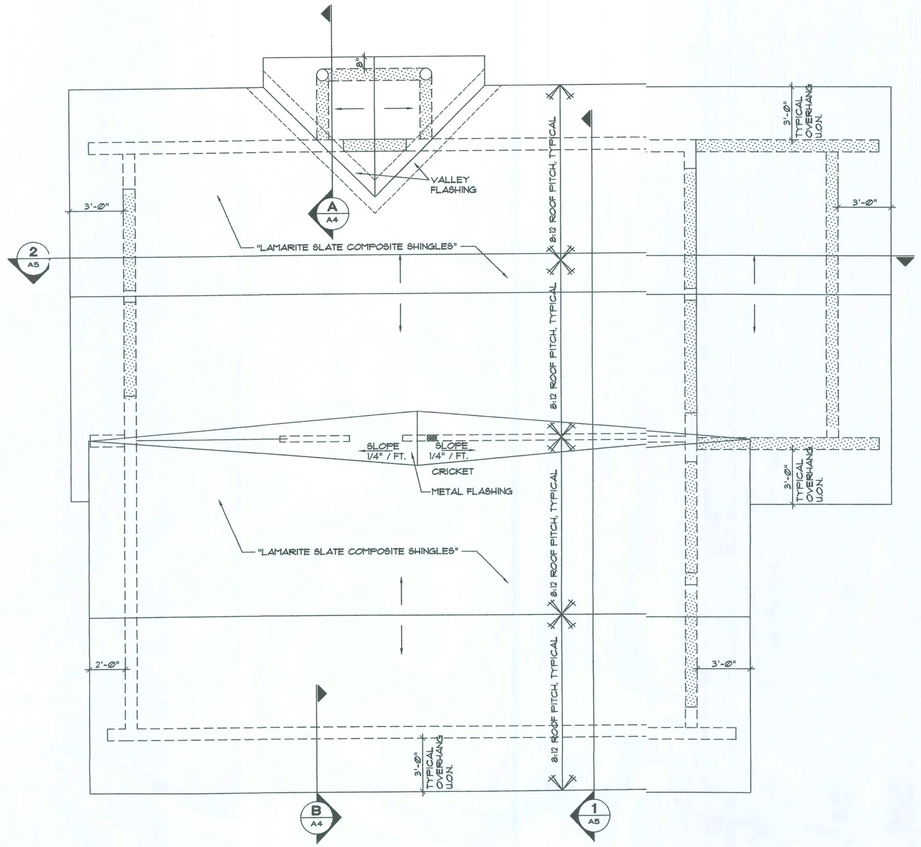
6004



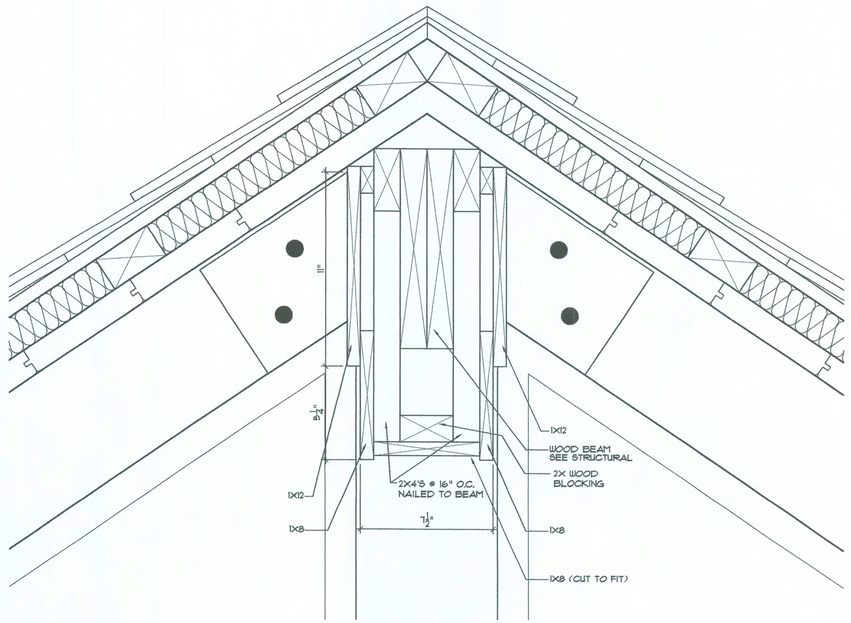
N A6 TYPICAL GARAGE DOOR JAMB
SCALE: 3" = 1'-0"



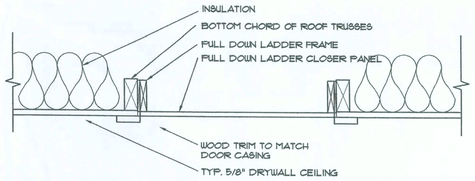
M A6 TYPICAL INTERIOR PARTITION
SCALE: 3" = 1'-0"



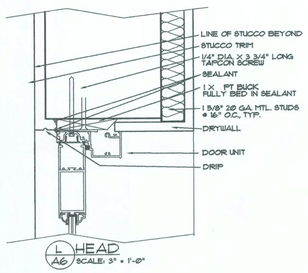
ROOF PLAN
SCALE: 1/4" = 1'-0" GUEST COTTTAGE



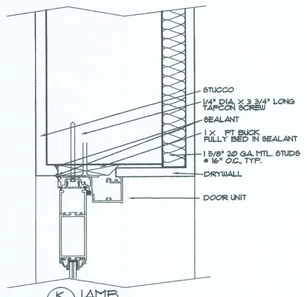
DETAIL AT TYPICAL RIDGE BEAM
SCALE: 3" = 1'-0"



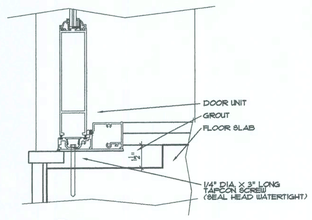
A A6 ATTIC ACCESS DETAIL
SCALE: 1 1/2" = 1'-0"



L A6 HEAD
SCALE: 3" = 1'-0"

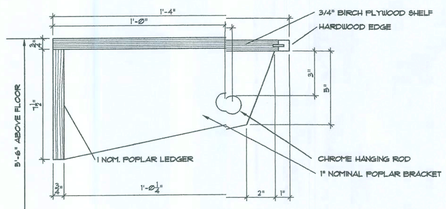


K A6 JAMB
SCALE: 3" = 1'-0"



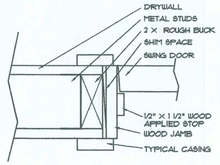
J A6 SILL
SCALE: 3" = 1'-0"

FRENCH DOOR DETAILS

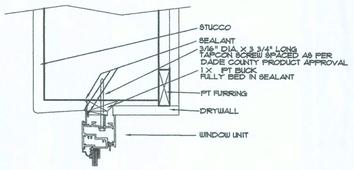


F A6 TYPICAL CLOSET ROD AND SHELF
SCALE: 3" = 1'-0"

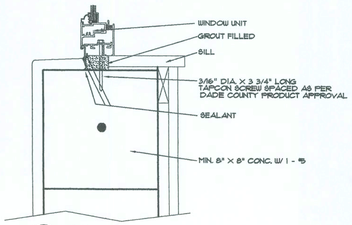
TYPICAL SUSPENDED DRYWALL CEILING
H A6
SCALE: 3" = 1'-0"



G A6 SWING DOOR - JAMB
SCALE: 3" = 1'-0"

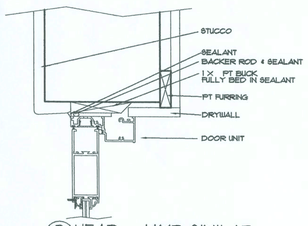


D A6 HEAD - JAMB SIMILAR
SCALE: 3" = 1'-0"

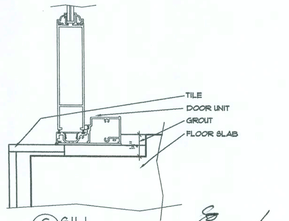


E A6 SILL
SCALE: 3" = 1'-0"

CASEMENT WINDOW DETAILS



B A6 HEAD - JAMB SIMILAR
SCALE: 3" = 1'-0"



C A6 SILL
SCALE: 3" = 1'-0"

ALUMINUM FRENCH DOOR DETAILS

8-15-06

4-8-07	PERMIT ISSUE

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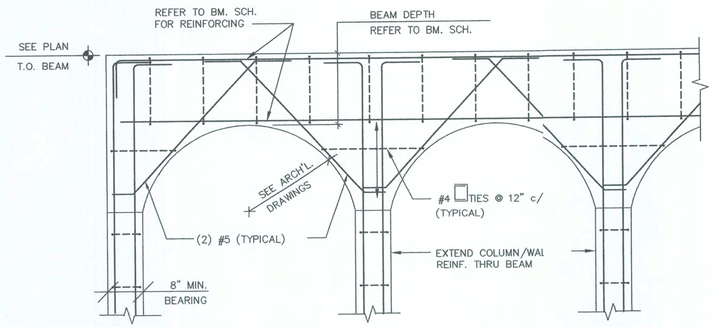
COLUMBIA COUNTY FLORIDA

DETAILS
SCALE AS NOTED

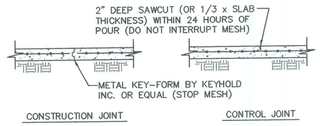
A6

6004



TYPICAL ARCHED BEAM/ CONC. COLUMN DETAIL

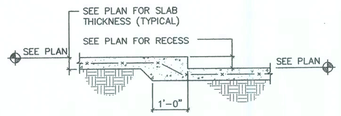
N.T.S.



TYPICAL SLAB-ON-GRADE

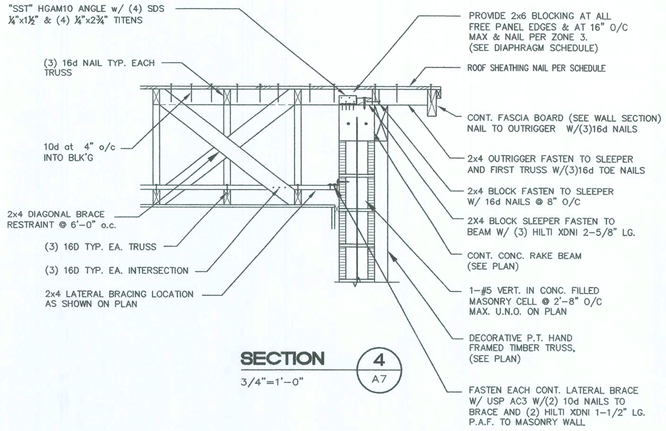
NOTE: CONTROL JOINTS/CONSTRUCTION JOINTS SHALL CREATE PANELS OF 400 SQ. FEET (MAXIMUM)

N.T.S.

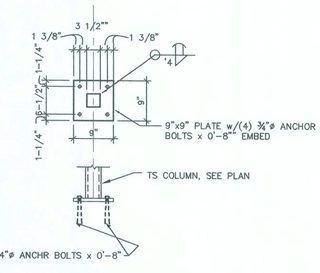


TYPICAL SLAB RECESS

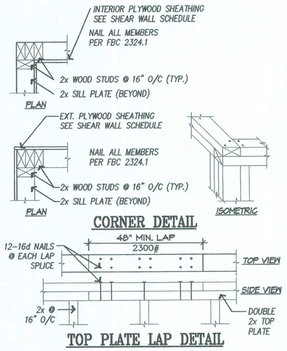
N.T.S.



SECTION 4 / A7
3/4"=1'-0"



SECTION 1 / A7
3/4" = 1'-0"

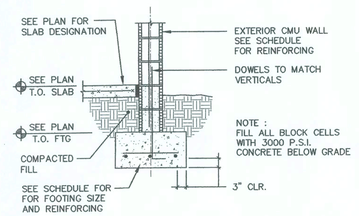


CORNER DETAIL

TOP PLATE LAP DETAIL

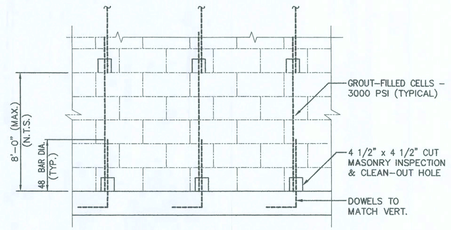
TYPICAL TOP PLATE DETAIL

N.T.S.

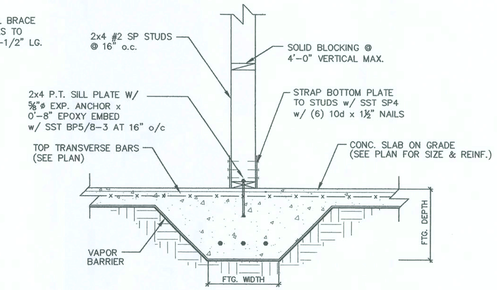


TYPICAL EXTERIOR WALL FOOTING

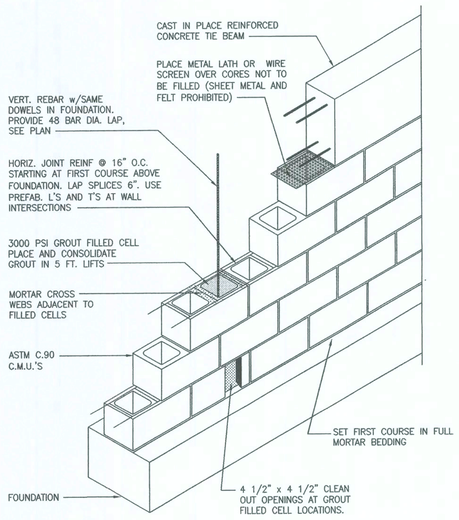
N.T.S.



TYPICAL MASONRY FILLED CELL DETAIL

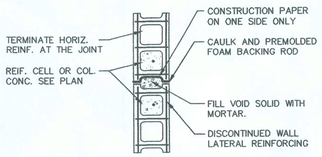


SECTION 2 / A7
3/4" = 1'-0"



TYPICAL MASONRY WALL CONSTRUCTION

N.T.S.



PLAN VIEW

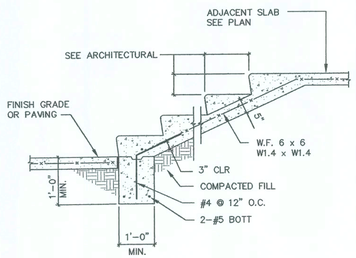
CMU WALL CONTROL JOINT (WCJ) DETAIL

NOTES :

1.- SAW CUT BOND BEAMS, TIE BEAMS 1" DEEP TO CONTINUE WALL CONTROL JOINT TO TOP OF WALL.

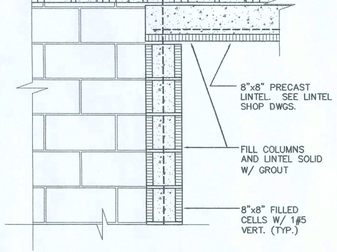
2.- CONTROL JOINT SPACING IS NOT TO EXCEED 25'-0" O.C. IN WALLS WITH MORE THAN 25'-0" OF UNITERUPTED MASONRY. REFER TO DWGS. FOR ADDITIONAL SPECIFIED LOCATIONS AS NOTED THUS (WCJ).

3.- CONTINUE ALL BOND BEAMS, TIE BEAMS REINF. THROUGH THE JOINT.



TYPICAL CONCRETE STAIR ON GRADE

N.T.S.



TYPICAL LINTEL ON COLUMN DETAIL

N.T.S.

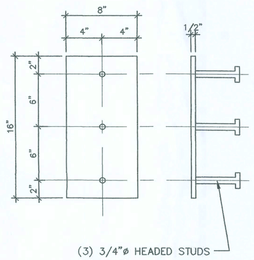
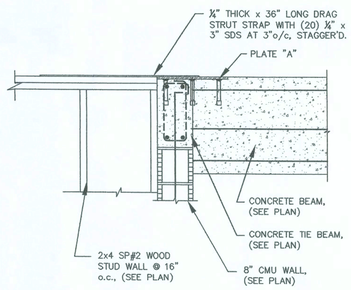
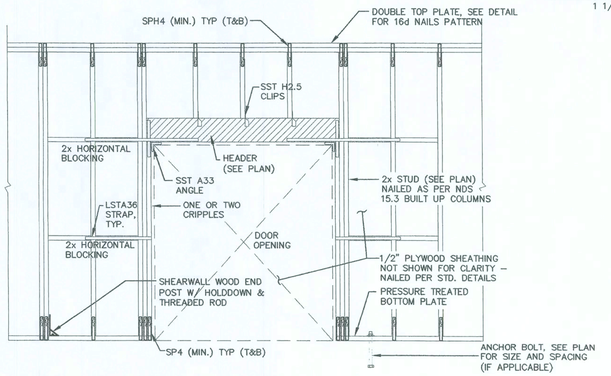


PLATE "A"

1 1/2"=1'-0"

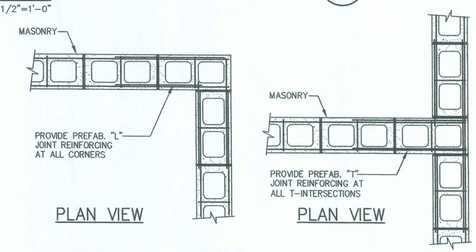


SECTION 3 / A7
3/4" = 1'-0"



TYPICAL WOOD SHEARWALL FRAMING AT OPENING

N.T.S.



TYPICAL MASONRY DETAILS

N.T.S.

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PERMIT ISSUE 4-6-07

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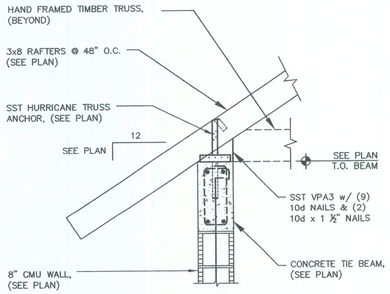
STRUCTURAL DETAILS
SCALEAS NOTED

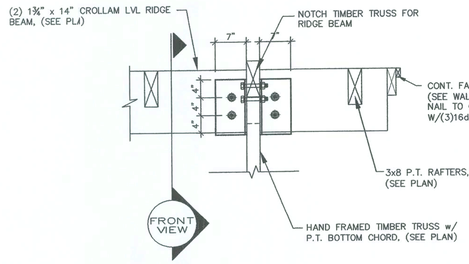
A7

6004

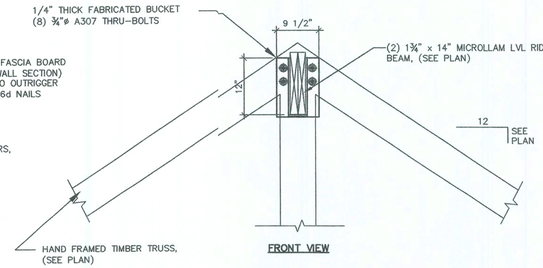


SECTION 1 / A8
3/4" = 1'-0"

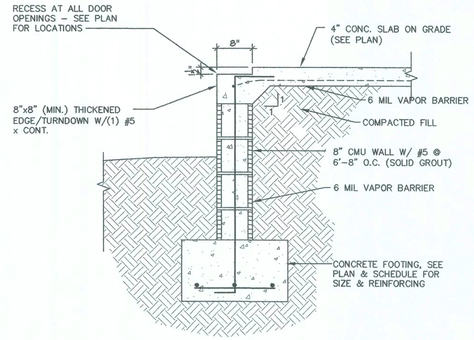
NOTE:
FOR SIMILAR CONDITION USE PRE-ENGINEERED WOOD ROOF TRUSSES @ 24" o.c.



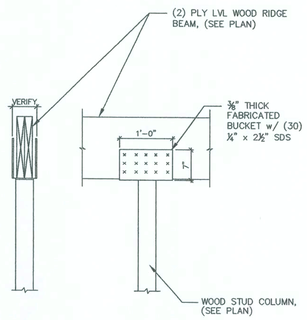
SECTION 2 / A8
3/4" = 1'-0"



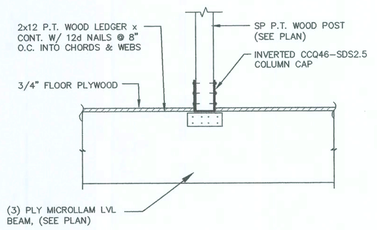
NOTE: STEEL FABRICATOR TO SUPPLY SHOP DRAWINGS, (TYP.)



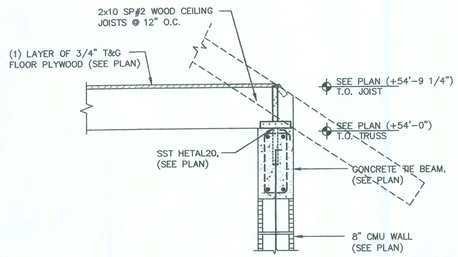
SECTION 3 / A8
3/4" = 1'-0"



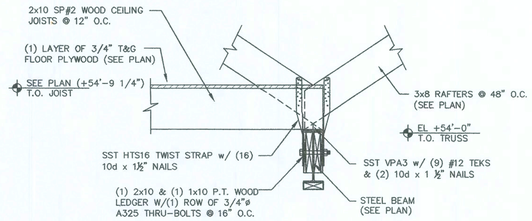
SECTION 4 / A8
3/4"=1'-0"



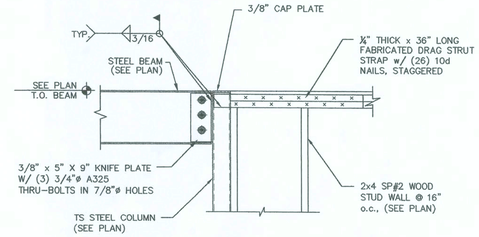
SECTION 5 / A8
3/4"=1'-0"



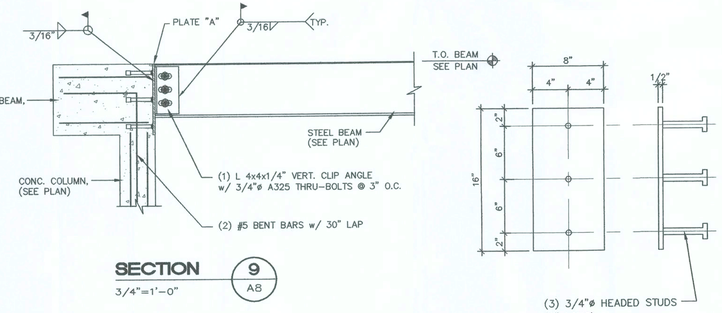
SECTION 6 / A8
3/4"=1'-0"



SECTION 7 / A8
3/4" = 1'-0"

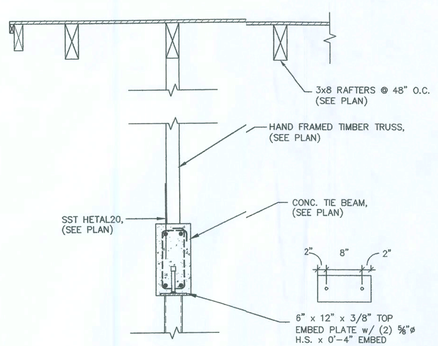


SECTION 8 / A8
3/4" = 1'-0"



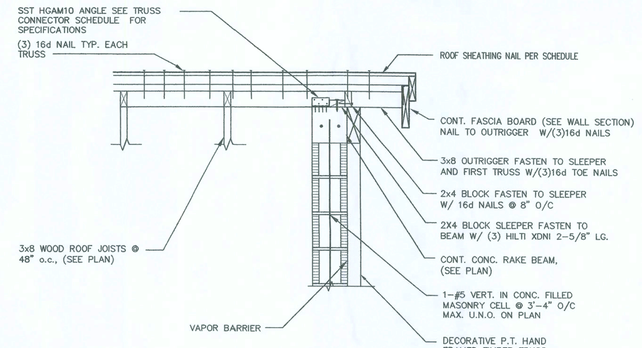
SECTION 9 / A8
3/4"=1'-0"

PLATE "A"
1 1/2"=1'-0"

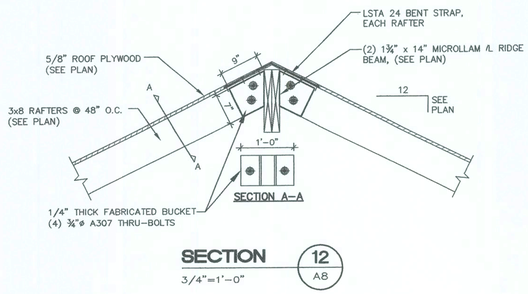


NOTE:
FOR SIM. CONDITION, NO STEEL COLUMN IS USED

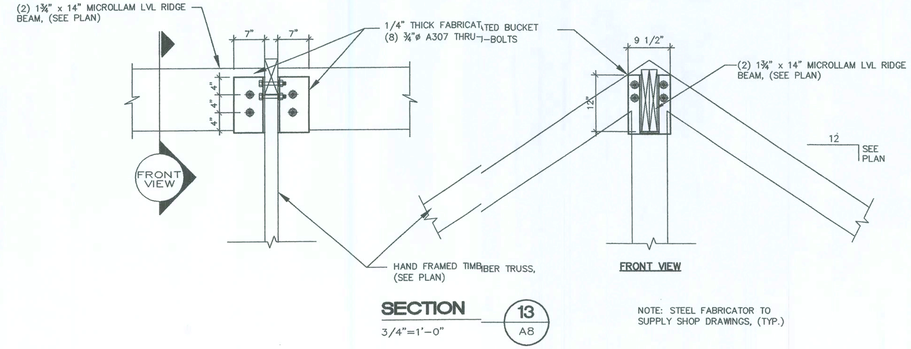
SECTION 10 / A8
3/4"=1'-0"



SECTION 11 / A8
3/4"=1'-0"

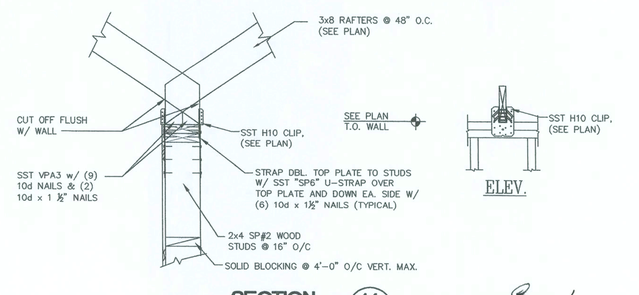


SECTION 12 / A8
3/4"=1'-0"



NOTE: STEEL FABRICATOR TO SUPPLY SHOP DRAWINGS, (TYP.)

SECTION 13 / A8
3/4"=1'-0"



SECTION 14 / A8
3/4" = 1'-0"

the lawrence group
ARCHITECTS 205 WORTH AVENUE, PALM BEACH, FLORIDA 33480 P.H. (561) 655-0870

1	4-6-07	PERMIT ISSUE

MR. AND MRS. WADE HORNSBY
COLUMBIA COUNTY FLORIDA

STRUCTURAL DETAILS
SCALE AS NOTED

A8

6004

STRUCTURAL NOTES

CODES AND STANDARDS

1. 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.
2. THE PROJECT WAS DESIGNED IN ACCORDANCE WITH THE:
   A. FLORIDA BUILDING CODE 2004 EDITION, ENCLOSED.
   B. BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318/2002 EDITION).
   C. MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES (ACI 315/1994 EDITION).
   D. SPECIFICATION FOR THE DESIGN, FABRICATION & ERECTION OF STRUCTURAL STEEL FOR BUILDINGS, (AMERICAN INSTITUTE OF STEEL CONSTRUCTION) AISC ASD/ 9TH EDITION.
   E. SPECIFICATION FOR STRUCTURAL CONCRETE FOR BUILDINGS, ACI 301/1996 EDITION.
   F. ASCE 7-02.
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 5½ 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 .55.
   E. JOBSITE WATER SHALL NOT BE ADDED.
3. ALL CONCRETE WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE ACI BUILDING CODE (ACI 318/ 1999 EDITION), THE ACI DETAILING MANUAL (ACI 315/ 1994 EDITION), AND THE SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS (ACI 301/1996 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 1999 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.
   B. 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 CONT'D

9. REINFORCING BAR
   D. CONTRACTOR SHALL INCLUDE IN HIS BASE BID THE COST OF 2,500 LBS. OF ADDITIONAL #5 REINFORCING STL., INCLUDING FABRICATION, BENDING, FURNISHING AND PLACING. THIS EXTRA STOCK SHALL BE FURNISHED AND USED FOR SPECIAL CONDITIONS AS DIRECTED BY THE ARCHITEC, THE ARCHITECT'S AGENT OR BY THE OWNER'S CONSTRUCTION SUPERVISOR. THEPRICE OF THE UNUSED EXTRA STOCK SHALL BE CREDITED TO THE OWNER'S ACCOUN
10. CONSTRUCTION JOINTS IN STRUCTURAL SLABS AND BEAMS SHALL BE AT MID-SPAN AND KEY JOINTED WITHREINFORCING CONTINUOUS ACROSS JOINT, AND ADDITIONAL SHEAR FRICTION REINFORCING.

STEEL

1. ALL STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST AISC CODE STRUCTURAL STEEL SHALL CONFORM TO:
   A. ASTM SPECIFICATION A 36 FOR PLATES.
   B. ALL STEEL TUBING SHALL CONFORM TO ASTM SPECIFICATION A 500 GRADE B (FY=46 KSI).
   C. ASTM SPECIFICATION A 992 GRADE 50 FOR BEAMS.
   D. ALL STEEL TO HAVE A SHOP COAT OF RUST INHIBITIVE PAINT.
   E. DELETE PAINT CALL STEEL TO RECEIVE SPRAYED ON FIREPROOFING OR CONCRETE ENCASEMENT.
   F. ALL MILL CAMBER TO BE ORIENTED UPWARD DURING FABRICATION AND ERECTION.
2. ALL SHOP AND FLD WELDING SHALL BE PERFORMED BY WELDERS QUALIFIED, AS DESCRIBED IN "AMERICAN WELDING SOCIETY'S STANDARD QUALIFICATION PROCEDURE" (AWS D1.1), TO PERFORTHE TYPE OF WORK REQUIRED.
3. ALL ALUMINUM AN STEEL MEMBERS TO BE TREATED OR PROPERLY SEPARATED TO PREVENT GALVAC AND CORROSIVE EFFECTS.
4. ALL STEEL WELDS RODS SHALL BE E70XX ELECTRODES.
5. SUBMIT ALL STEESHOP DRAWINGS FOR APPROVAL PRIOR TO ANY FABRICATION.
6. EQUIPMENT SUPPRTS:

PROVIDE ALL SUPPRTING STEEL NOT INDICATED ON PLAN AS REQUIRED FOR THE INSTALLATION OF MECHANICAL EQUIPMENT AND MATERIALS, INCLUDING ANGLES, CHANNELS, BEAMS, HANGERS, ETC. DO NOT SUPPORT EQUIPMENT OR PIPING FROM METAL DECKING.

7. DECK SUPPORTS:

PROVIDE 1/4" BENTPLATES AT ALL HIPS, VALLEYS, SKEWED BEAMS AND OTHER AREAS FOR DECK SUPPORT.

MASONRY

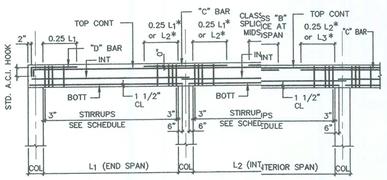
1. MASONRY UNITS SHALL BE ASTM C 90 GRADE N WITH MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI ON NET AEA OF INDIVIDUAL UNITS. ALL CMU SHALL BE LAID IN A FULL BED OF MORTAR IN RUNNINBOND (U.N.O.).
2. FOLLOWING ARE TH BLOCK STRENGTHS REQUIRED:
   A. ASTM C 90 - 2,00 PSI ON NET AREA OF INDIVIDUAL UNITS
3. ALL MORTAR SHALL BE TYPE S (OR TYPE M)
   A. IN ACCORDANCEITH ASTM SPECIFICATION C270
   B. WITH A MINIMUM COMPRESSIVE STRENGTH OF 1800 PSI AT 28 DAYS, (2500 WITH TYPE M).
4. GROUT SHALL BE HIGH SLUMP MIX
   A. IN ACCORDANCEITH ASTM SPECIFICATION C476
   B. HAVING A MINIMUCOMPRESSIVE STRENGTH OF 3,000 PSI
5. ALL CONCRETE MASONRY BEARING AND SHEAR WALLS SHALL BE CONSTRUCTED AND INSPECTED BY A QUALIFIED ENGINEER IN ACCORDANCE WITH THE "BUILDING CODE REQUIREMENT FORMASONRY STRUCTURES" (ACI 530/ASCE 5/TMS 402) AND "SPECIFICATIONS FR MASONRY STRUCTURES" (ACI 530.1/ASCE 6/TMS 602)/ 1995 EDITIONS.
6. PROVIDE HOT DIPED GALVANIZED LADDER TYPE HORIZONTAL JOINT REINFORCEMENT (9 GA.) AT 16" ON CEER VERTICAL IN ALL MASONRY WALLS. PROVIDE DOVE TAIL SLOT ANCHORS AT CONRETE COLUMNS.
7. PROVIDE CONTROJOINTS IN MASONRY WALLS AT A SPACING OF 30' ± O.C. AND ALIGN WITH ARCHITECTUL CONTROL JOINTS.
8. EPOXY GROUT SHALL BE NON-SHRINK HIGH CREEP RESISTANT, AND SHALL HAVE THE FOLLOWING MINIMU ALLOWABLE PROPERTIES:
   TENSILE STRENGTHASTM C 307: 1,000 PSI
   FLEXURAL STRENG, ASTM C 580: 4,000 PSI
   COMPRESSIVE STRNGTH, ASTM C 579: 16,00 PSI/1 DAYS.

WOOD

1. ALL STRUCTURALWOOD MEMBERS ARE DESIGNED AS "DRY-USE". MOISTURE CONTENT MUST B 19 % OR LESS. STORE WOOD FRAMING ABOVE GROUND AND UNDER TARPS &H PROPER AIR CIRCULATION.
2. ALL LUMBER SHALL BE SOUTHERN PINE SPECIES #2 GRADE OR APPROVED EQUAL. ALLOWALE DESIGN STRESSES SHALL FOLLOW NATIONAL DESIGN SPECIFICATION (NDS) (LATEST EDITION).
3. PROVIDE SP SCATE PRESSURE TREATED LUMBER IN ACCORDANCE WITH AWPA STANDARDS TO. MINIMUM 0.40 PCF RETENTION WHERE LUMBER IS IN CONTACT WITH CONCRETE/MASONRY OR OUTSIDE OF BUILDING.
4. PLYWOOD SHEAWING:
   A. ROOF: Use 1/32" 40/20 RATED, EXP. 1, PLYWOOD SHEATHING.
   B. SEE FRAMIN PLANS FOR NAILING AND/OR BLOCKING REQUIREMENTS. USE 8'- 0" 2ND X 4'-0" WIDE SHEETS WITH LENGTH ACROSS FRAMING. STAGGER NAIL END JOINTS 4'-0" TYP., ALLOW 1/8" SPACE ALONG PANEL EDGES AMEND JOINTS.
   C. SEE FRAMIN PLANS FOR DIAPHRAGM NAILING TYPE, SIZE, SPACING AND LOCATIONS
5. WOOD CONNECTIN - ALL NAILS USED FOR STRUCTURAL FRAMING MEMBERS SHALL BE COMMON WIR, U.N.O. ALL NAILS, TRUSS HANGERS, TRUSS ANCHORS AND STRAPS SHALL BE GALVANIZED TYPE 304L STAINLESS STEEL OR EQUAL FOR CORROSIVE RESISTANCE. LL METAL STRAPS MUST BE INSTALLED WITH EQUAL LENGTHS ABOUT THE JOT LINE. USE SIMPSON STRONG-TIE CONNECTOR PRODUCTS OR APPROVED EIAL. TOE NAILING WILL NOT BE PERMITTED.

CONCRETE COVER SCHEDULE

CONCRETE CAST AINST AND PERMANENTLY EXPOSED TO EARTH:	3"
CONCRETE EXPOSD TO EARTH OR WEATHER:	
#6 OR ARGER	2"
#5 OR MALLER	1 1/2"
CONCRETE NOT EXISED TO WEATHER OR IN CONTACT WITH GROUND:	
SLABS,WALLS, JOISTS (#11 AND SMALLER)	3/4"
BEAMS, OLUMNS (PRIMARY REINF., TIES, STIRRUPS, SPIRALS)	1 1/2"
CONCRETE FOR 0ASTAL CONSTRUCTION EXTERIOR CONDITIONS	
WALL &SLABS	2"
OTHER EMBERS	2 1/2"



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

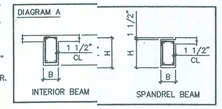
"D" BAR : TOP BAR AT EXTERIOR SUPPORT (IN ADDITION TO TOP CONT BARS) PLACE IN SAME LAYER AS TOP CONT BARS (U.N.O.).

"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.

DIAGRAM A



INTERIOR BEAM SPANDREL BEAM

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.

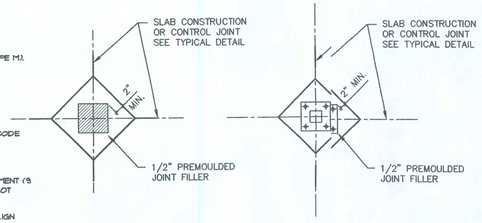
(2L) - INDICATES BARS PLACE IN TWO LAYERS. WHERE BARS ARE PLACED IN TWO LAYERS, THE SECOND LAYER BARS MUST BE PLACED DIRECTLY UNDER BARS IN THE FIRST LAYER (IF TOP BAR) OR DIRECTLY OVER BAR IN THE FIRST LAYER (IF BOTT BAR). PROVIDE 1" CLEAR DISTANCE BETWEEN LAYERS OR ONE BAR DIAMETER, WHICHEVER IS THE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

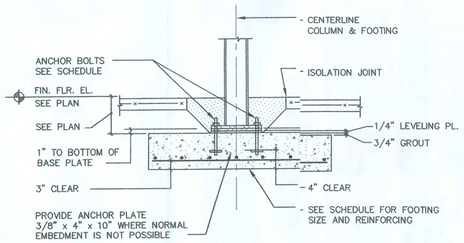
TYPICAL BEAM BAR PLACEMENT DIAGRAM

N.T.S.



TYPICAL ISOLATION JOINTS CONCRETE AND STEEL

N.T.S.



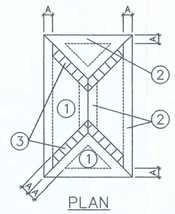
TYPICAL STEEL COLUMN FOOTING

N.T.S.

WIND LOAD SCHEDULE – FLAT ROOF

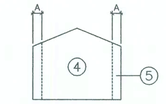
COMPONENTS & CLADDING	ROOF WIND LOADS			WALL WIND LOADS (SEE NOTE 1)	
	ROOF AREA (10 s.f.)			WALL AREA	
	(1)	(2)	(3)	(4)	(5)
PRESSURE (PSF)	+18.6	+18.6	+18.6	+19.5	+19.5
SUCTION (PSF)	-19.2	-22.9	-22.9	-21.3	-24.6

1. EXTERIOR GLAZED OPENINGS IN BUILDINGS SHALL COMPLY WITH FBC 2004 SECTION 1606 BY EITHER BEING DESIGNED FOR IMPACT RESISTANCE OR BEING PROTECTED BY IMPACT PROTECTIVE SYSTEMS.
2. CORNER DISTANCE, A = 3.0 FEET, 50 S.F., C&C



PLAN

HIP ROOF $\theta \geq 10°$ $\leq 45°$



ELEVATION

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 = 3.0 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 = 3.0 FEET

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		
(A)	SIMPSON STRONG TIE CONNECTORS	HETAL 20	1901.21	NER489.PDF	750	1810	74	415	128	1100	(15) 10d x 1 1/2"	47%
(B)	SIMPSON STRONG TIE CONNECTORS	HGAM10	–	–	280	850	262	1005	128	1105	(4) SDS 1/4"x1 1/2"	44%
(C)	SIMPSON STRONG TIE CONNECTORS	H10	1423.20	–	510	905	–	–	–	–	(4) 1/4" x 2 3/4" TITENS (16) 8d x 1 1/2"	57%

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.

STEEL COLUMN SCHEDULE

MARK	SIZE	BASE PL	EXP. ANCHORS	REM
SC-1	TS 3 1/2"x3 1/2"x3/16"	9x9x3/4"	(4) 5/8"ø EXP. ANCHOR x 0'-8" EMBED	DETAIL 1/A7

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.	–
F30	3'-0" x 3'-0" x 12"	(3) #5 EA. WAY TOP & BOTT.	–

CONCRETE/MASONRY COLUMN SCHEDULE

MARK	SIZE (inches)	VERT. REINF.	TIES	SPACING	REMARKS
C-1	12"ø	4 #5	#3	@ 8" O.C.	CONC.
C-2	8 x 12 (MIN.)	4 #5	#3	@ 8" O.C.	CONC.
C-3	8 x 16	6 #5	#3	@ 8" O.C.	CONC.
C-4	8"ø	4 #5	#3	@ 8" O.C.	CONC.
C-5	8 x 18	6 #5	#3	@ 8" O.C.	CONC.
MC-1	8 x 16	2 #5	–	–	MASONRY
MC-2	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 #5	2 #5	2 #5	#3	@ 8" O.C.	–
B-3	8 x 30	2 #5	2 #5	2 #5	#3	@ 8" O.C.	–
AB-1	8 x 16	2 #5	2 #5	–	#3	@ 8" O.C.	ARCH BEAM
RB-1	8 x 12	–	–	2 #5	#3	@ 24" O.C.	RAKE BEAM
TB-1	8 x 16	2 #5	2 #5	–	#3	@ 24" O.C.	TIE BEAM
L-1	8 x 22	1 #5	1 #5	–	–	–	8F22 1B/1T
L-2	8 x 28	1 #5	1 #5	–	–	–	8F28 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"

DESIGN LOAD SCHEDULE

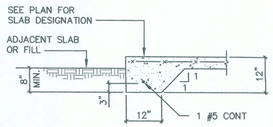
WIND SPEED	110 MPH
TOTAL DEAD LOAD	25 PSF
TOTAL LIVE LOAD	30 PSF
TOTAL LOAD	55 PSF

MASONRY WALL SCHEDULE

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



THICKENED EDGE (T.E.)

N.T.S.

the lawrence group
ARCHITECTS 205 WORTH AVENUE, PALM BEACH, FLORIDA 33480 P.H. (561) 655-0870

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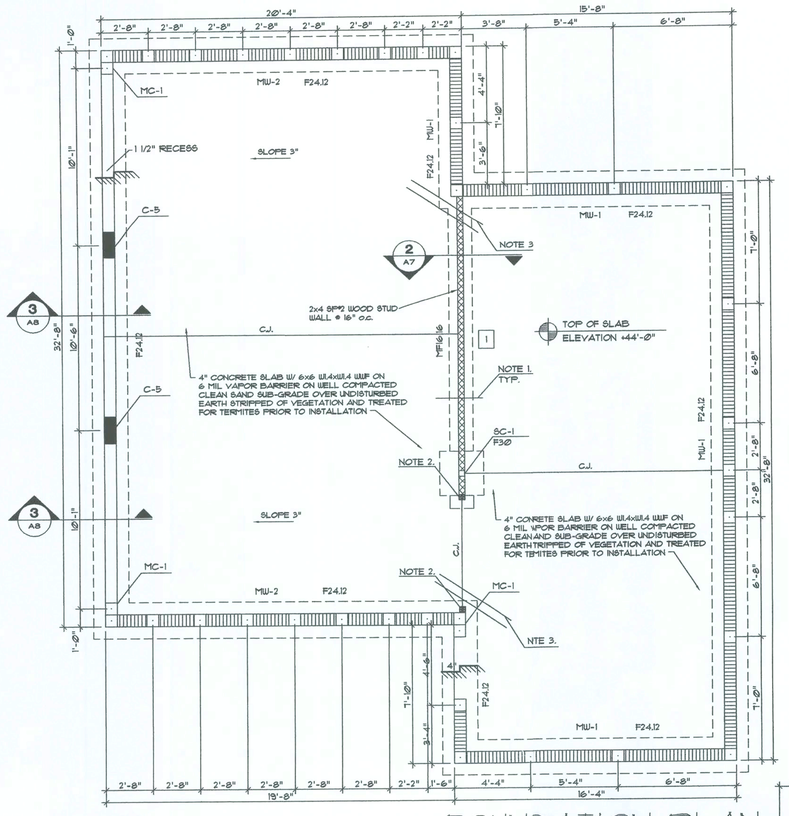
COLUMBIA COUNTY FLORIDA

FLOOR PLANS
SCALE: AS NOTED

A9

6004



FOUNDATION PLAN

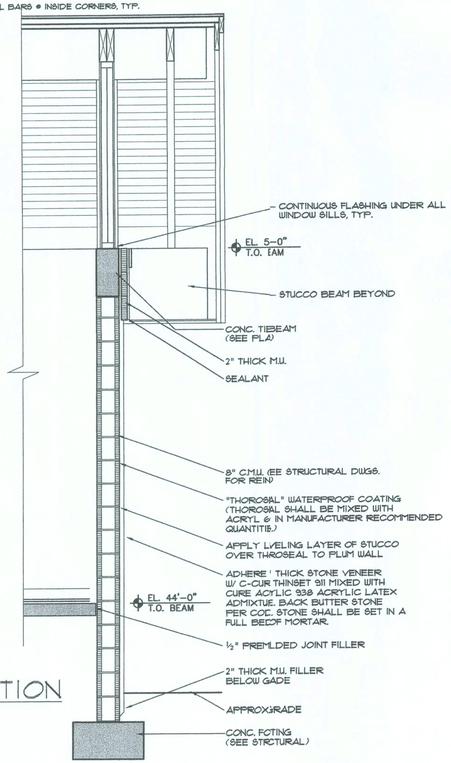
SCALE: 1/4" 1'-Ø" SHOP

FOUNDATION PLAN NOTES:

1.) #4 x 3'-Ø" LONG TOP TRANSFER BAR @ 48" o.c.

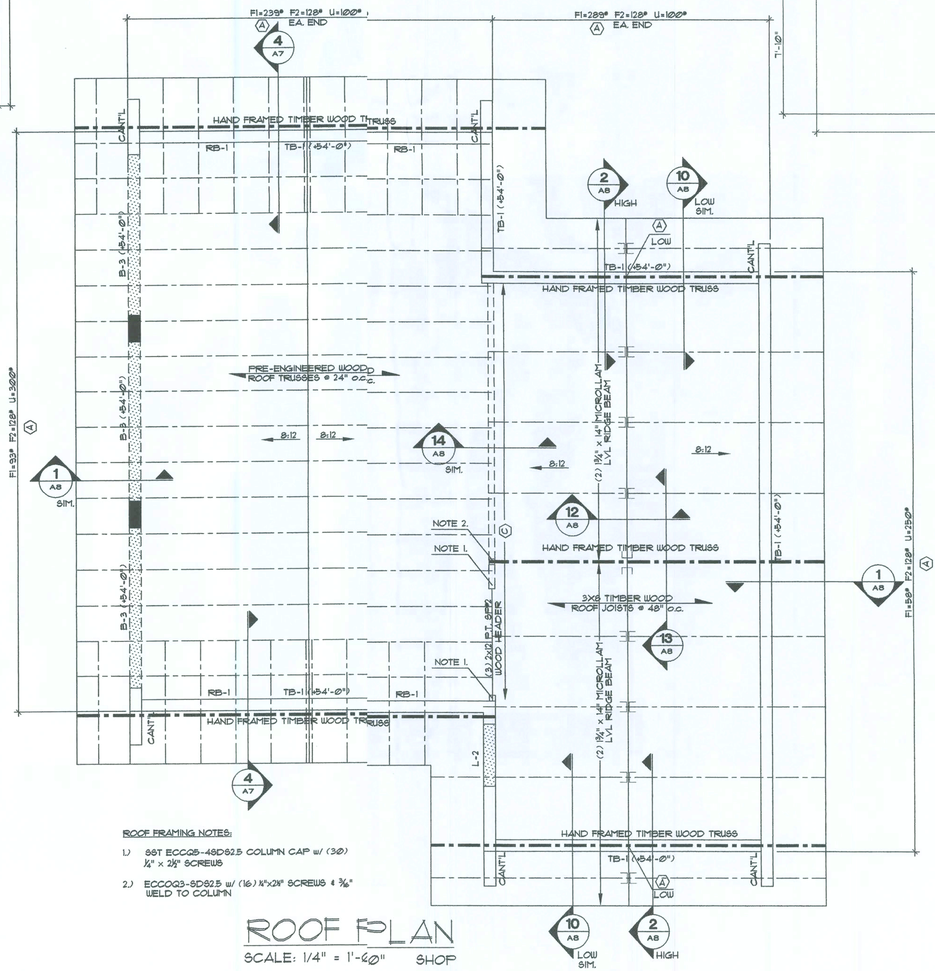
2.) (2) 2x4 SPF2 WOOD STUD COLUMNS W/ SST HTT16 W/ 5/8"Ø EXP. ANCHOR x Ø'-8" EMBED & (18) 16d NAILS

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



A A10 WALL SECTION

SCALE: 1/2" = 1'-Ø" SHOP



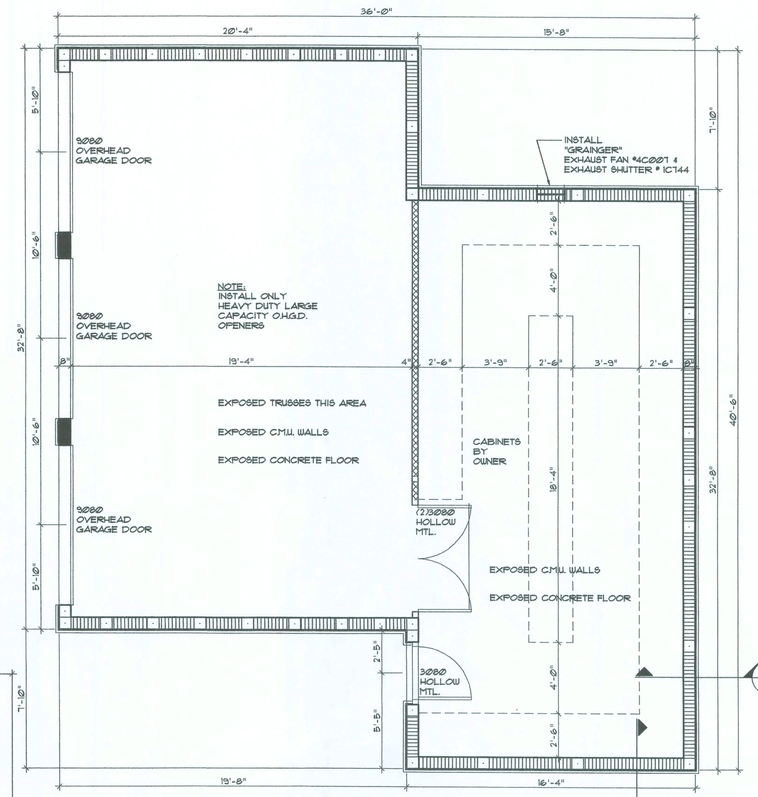
ROOF PLAN

SCALE: 1/4" = 1'-Ø" SHOP

ROOF FRAMING NOTES:

1.) SST ECCQ5-48D82.5 COLUMN CAP W/ (30) ¼" x 2½" SCREWS

2.) ECCQ03-SD82.5 W/ (16) ¼"x2½" SCREWS & ⅜" WELD TO COLUMN



FLOOR PLAN

SCALE: 1/4" = 1'-Ø" SHOP

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

	4-6-07	PERMIT ISSUE

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

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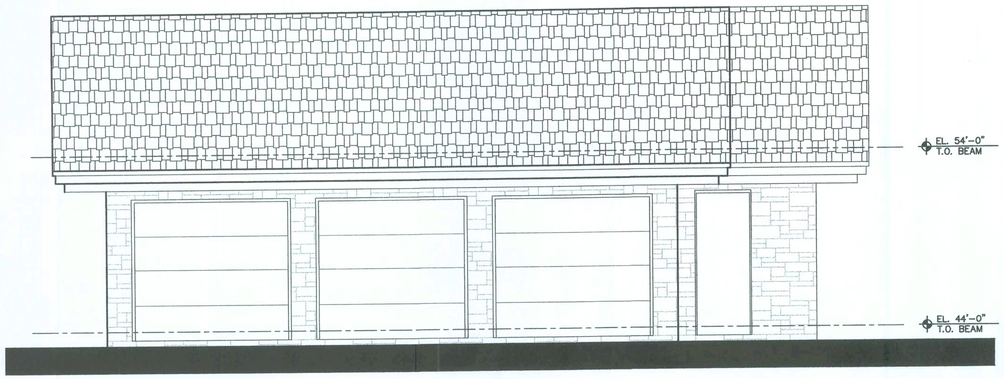
COLUMBIA COUNTY FLORIDA

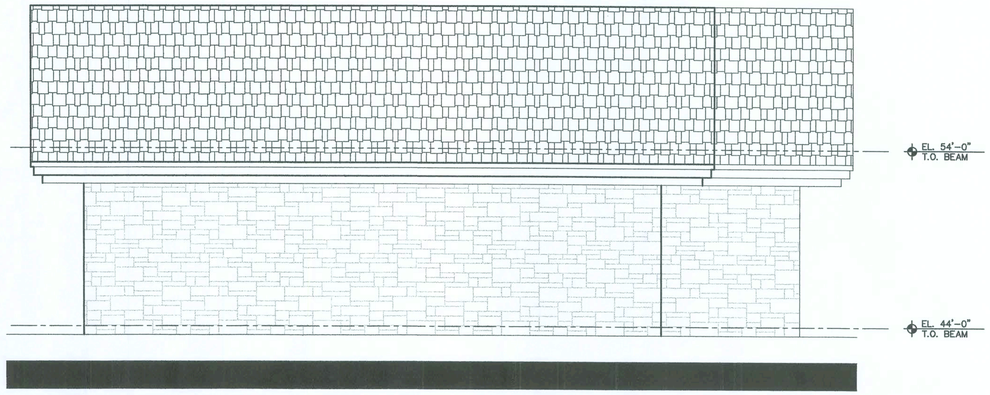
FLOOR PLANS
SCALE: 1/4"=1'-0"

A10

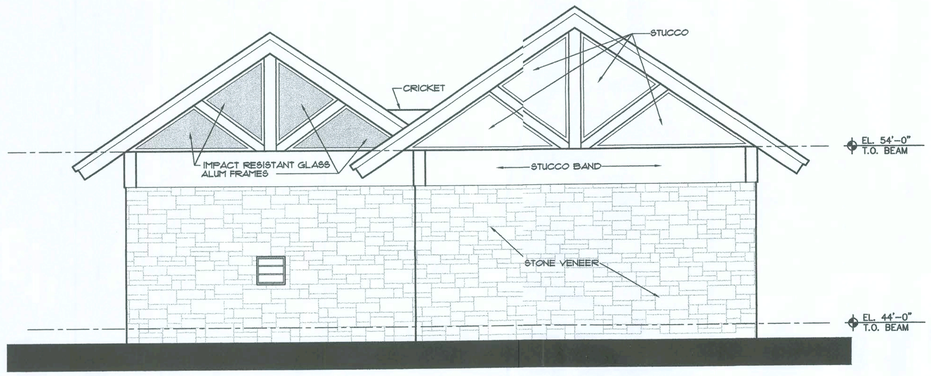
6004



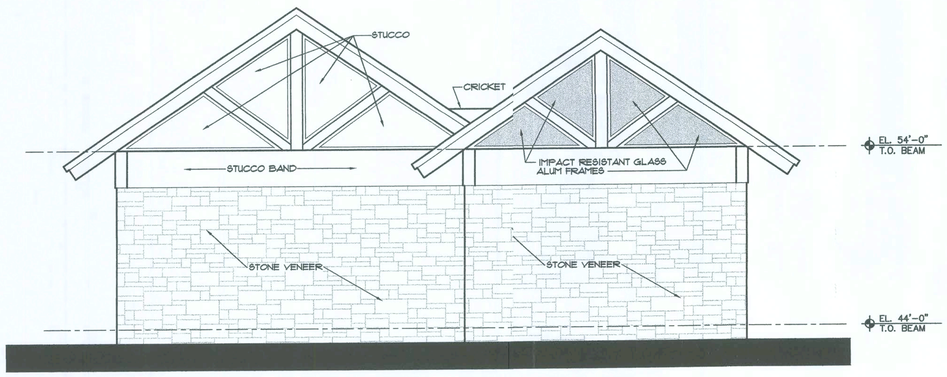
NORTH ELEVATION
SCALE: 1/4" = 1'-0" SHOP



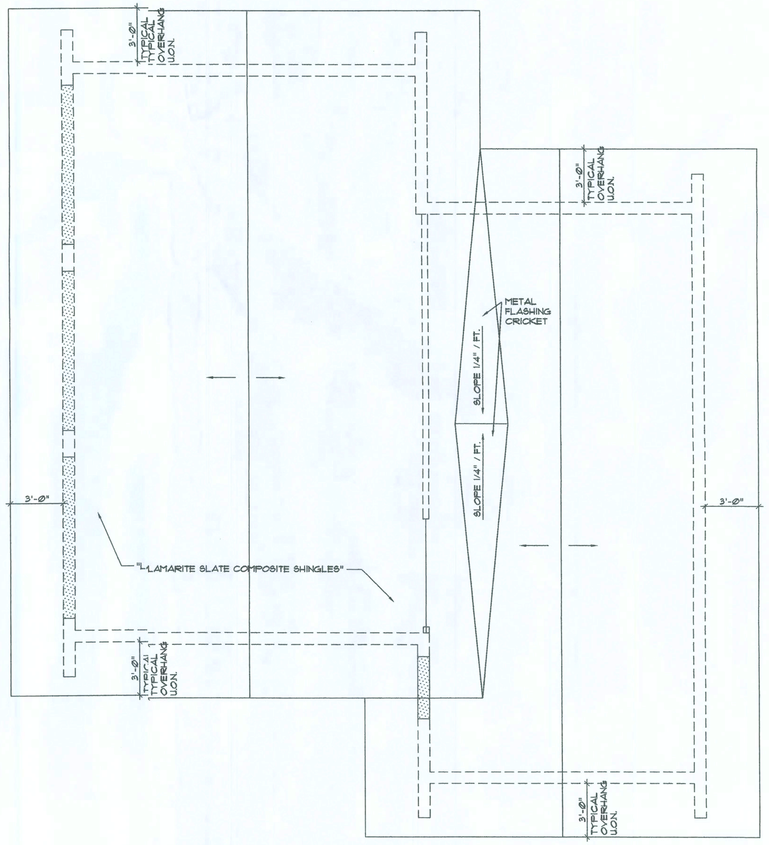
SOUTH ELEVATION
SCALE: 1/4" = 1'-0" SHOP



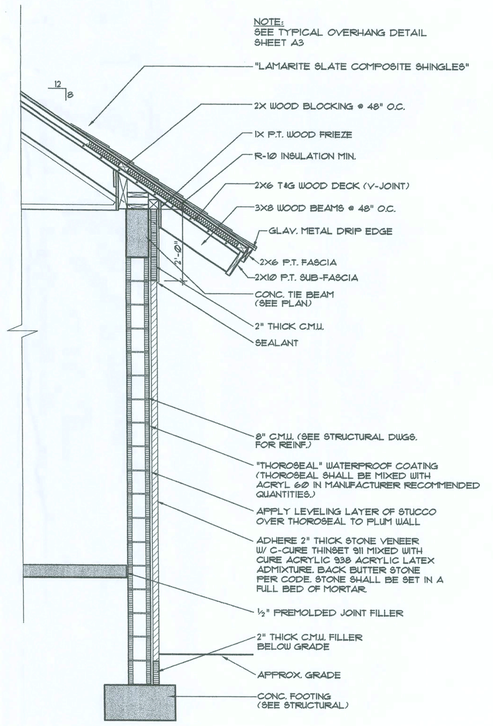
EAST ELEVATION
SCALE: 1/4" = 1'-0" SHOP



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



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



A / A11 TYPICAL WALL SECTION
SCALE: 1/4" = 1'-0"
SHOP

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

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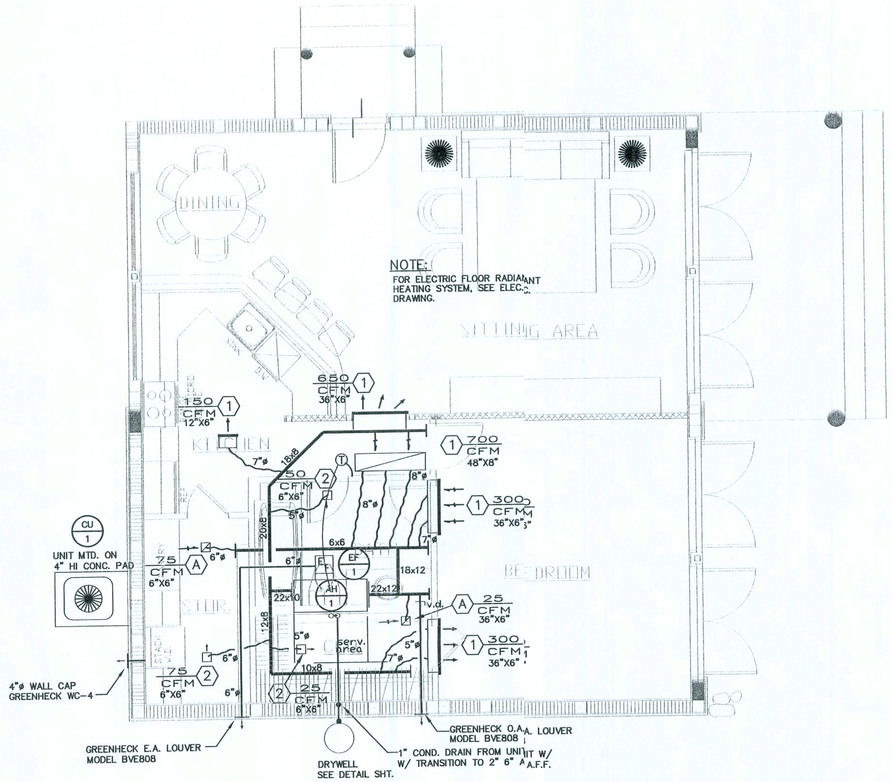
COLUMBIA COUNTY FLORIDA

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

A11

6004



GUEST HOUSE MECHANICAL PLAN

N

8-15-06

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MR. AND MRS. WADE HORNSBY
COLUMBIA COUNTY FLORIDA

GUEST HOUSE
MECHANICAL FLOOR PLAN
SCALE1/4"=1'-0"

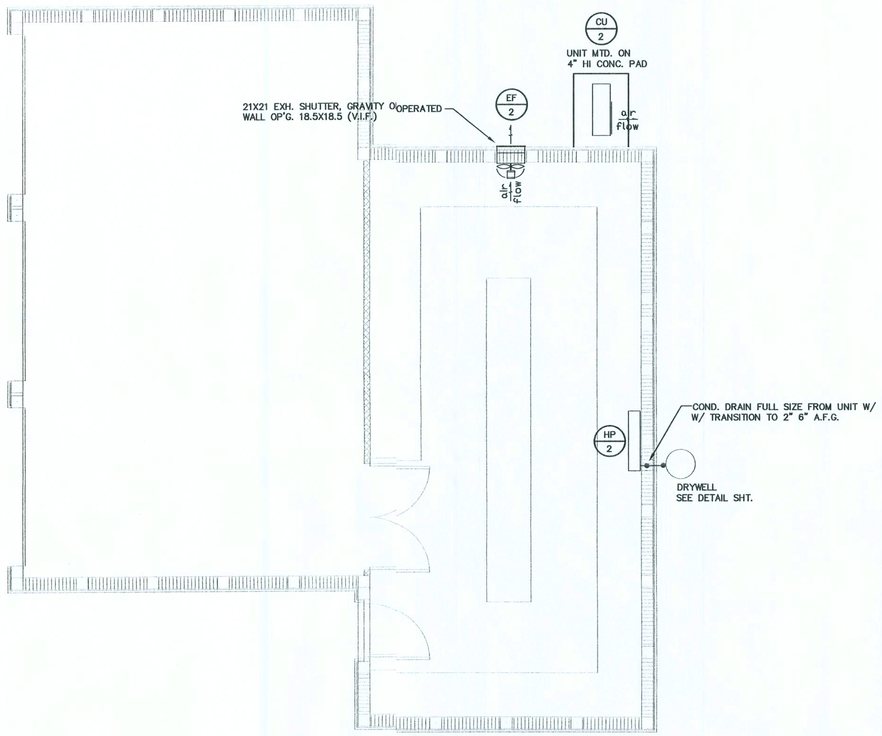
M-1

6004

JOB #06060

MICHAEL A. TEELE, P.E.
ENGINEER OF RECORD
FLORIDA REGISTRATION
P.E. 32065
DATE: APR 06 2007

TEELE & ASSOCIATES
CONSULTING ENGINEERS
2383 CORPORATE DRIVE
BOYNTON BEACH, FLORIDA 33426 (561) 738-4747
CERT. OF AUTH. NO. 4559



SHOP BUILDING MECHANICAL PLAN

N

JOB #06065

MICHAEL A. TEELE, P.E.
ENGINEER OF RECORD
FLORIDA REGISTRATION
P.E. 32066
DATE: APR 06 2007

TEELE & ASSOCIATES
CONSULTING ENGINEERS
2183 CORPORATE DRIVE
BOYNTON BEACH, FLORIDA 33426 (561) 738-4747
CERT. OF AUTH. NO. 4659

8-16-06

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

M-2

6004

FAN SCHEDULE

UNIT NO.	MFGR. MODEL NUMBER	CFM	SP	RPM MAX.	AMPS OR HP	ELECTRIC REQ. VOLT	PHASE	REMARKS
EF-1	PANASONIC FV-11VQ2	100	0.10	3.6	0.35	120	1	1, 2, 3, 4
EF-2	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.

GRILLE AND DIFFUSER SCHEDULE

DESIGN.	MFGR. MODEL NUMBER	SIZE	DIRECTION	CFM	TYPE	MNT. TYPE	FINISH	RIARKS
1	TITUS / 272FS	SEE PLAN	SEE PLAN	SEE PLAN	SUP/RET	-	WHITE	SEWALL
2	TITUS / TDCA-AA	SEE PLAN	SEE PLAN	SEE PLAN	SUPPLY	-	WHITE	CLING
A	TITUS / 4F	SEE PLAN	SEE PLAN	SEE PLAN	RETURN	-	WHITE	CLING

NOTE
DIFFUSER TYPE 1 INSTALLATIONS TO HAVE HIDDEN FLANGES

SUPPLY AIR UNIT SCHEDULE

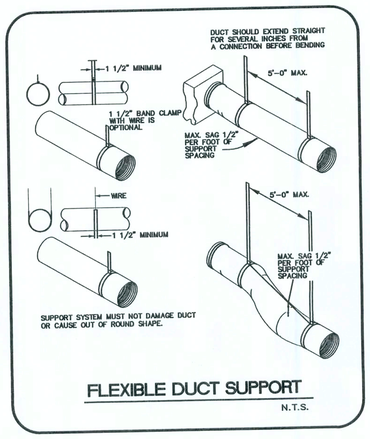
SYS. NO.	CU. NO.	MFGR. MODEL NUMBER	CAPACITY TOTAL	CAPACITY SENS	FAN CFM	FAN H.P.	HEAT KW	ELECTRIC REQ. VOLT	ELECTRIC REQ. PHASE	EER (SEER)	DIMENIONS	LOCATION
AC1	CU1	CARRIER - FY4ANF036000	33.5	26.3	1200	1/3	-	208	1	13.0	21 X 22 X 3	ATTIC
HP2	CU2	SANYO - KHS2472	24.2	-	500	-	2.5	208	1	16.0	41 X 11 X	WALL MTD.

SUPPLY AIR UNIT TO HAVE ONE (1) POINT ELECTRICAL CONNECTION AND INTEGRAL DISCONNECTS.
HP-2 PROVIDED W/ WIRELESS REMOTE CONTROLLER

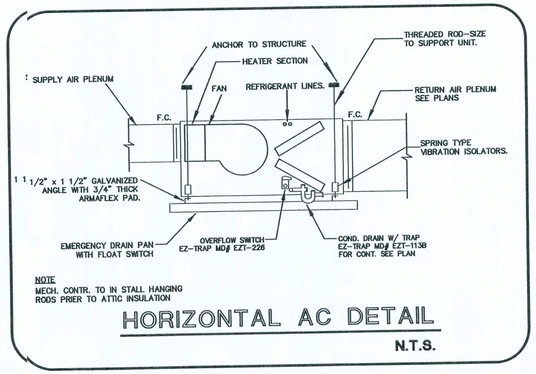
CONDENSING UNIT SCHEDULE

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	SIZI	DIMENSIONS
AC1	CU1	CARRIER - 24ABA338A003	1	14.1	1	1.4	30	208	1	3. T	26 X 26 X 35
HP2	CU2	SANYO - CH2472	1	1.3	1	-	20	208	1	2. T	35 X 12 X 29

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

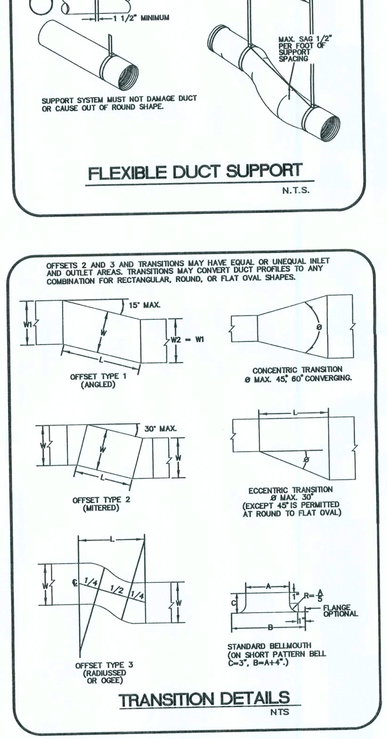


FLEXIBLE DUCT SUPPORT
N.T.S.

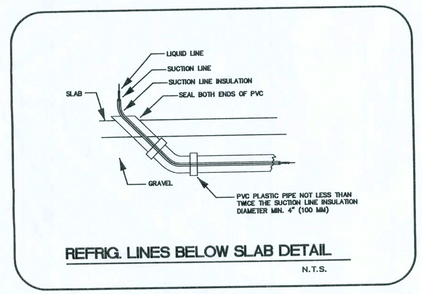


NOTE
MECH. CONTR. TO IN STALL HANGING RODS PRIER TO ATTIC INSULATION

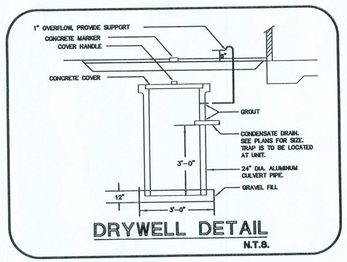
HORIZONTAL AC DETAIL
N.T.S.



TRANSITION DETAILS
NTS



REFRIG. LINES BELOW SLAB DETAIL
N.T.S.



DRYWELL DETAIL
N.T.S.

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, 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.

TEELE & ASSOCIATES
CONSULTING ENGINEERS
2103 CORPORATE DRIVE
BOYNTON BEACH, FLORIDA 33426 (561) 738-4747
CERT. OF AUTH. NO. 4659

MICHAEL A. TEELE, P.E.
ENGINEER OF RECORD
FLORIDA REGISTRATION
P.E. 32855
APR 06 2007
DATE:

JOB #20060

the lawrence group
ARCHITECTS 206 WORTH AVENUE, PALM BEACH, FLORIDA 33480 P.H. (561) 655-0670

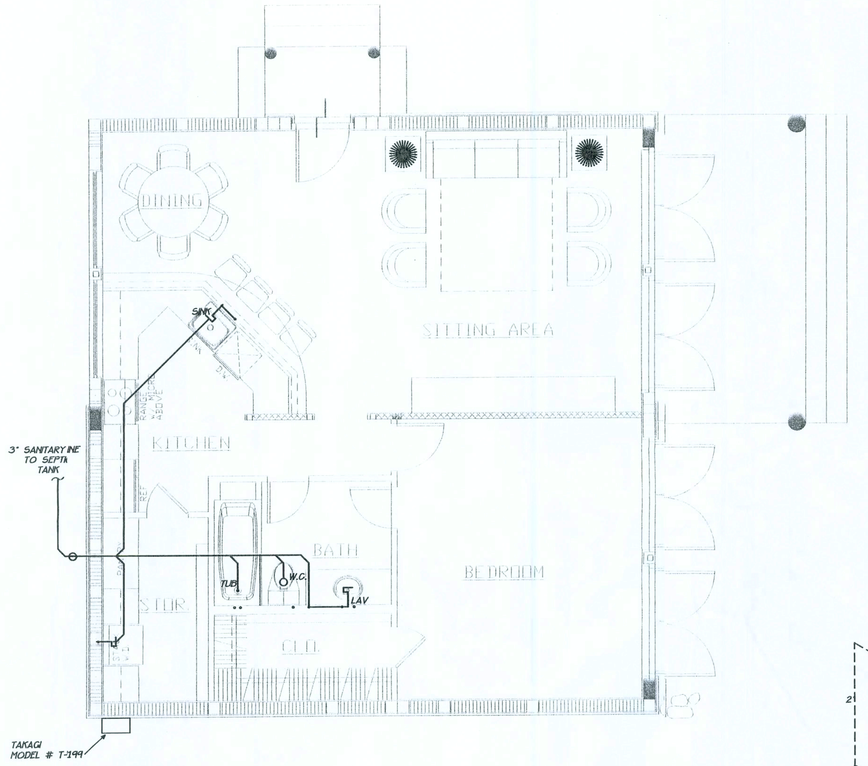
MR. AND MRS. WADE HORNSBY
COLUMBIA COUNTY FLORIDA

QUEST HOUSE
MECHANICAL SCHEDULE
SCALE:1/4"-1'-0"

M-3

6004

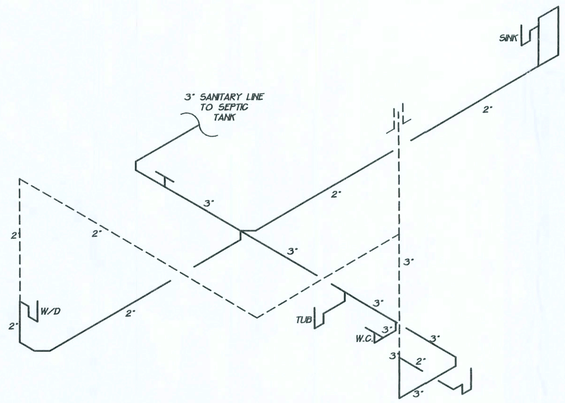
8-15-06



PLUMBING FLOOR PLAN

SCALE 1/4"=1'-0"

N



SANITARY RISER

NOT TO SCALE

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

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

P-1

6004

TEELE & ASSOCIATES
CONSULTING ENGINEERS
2163 CORPORATE DRIVE
BOYNTON BEACH, FLORIDA 33426 (561) 738-4747
CERT. OF AUTH. NO. 4689

ASB 32866

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

APR 06 2007

DATE:

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 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.

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. 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

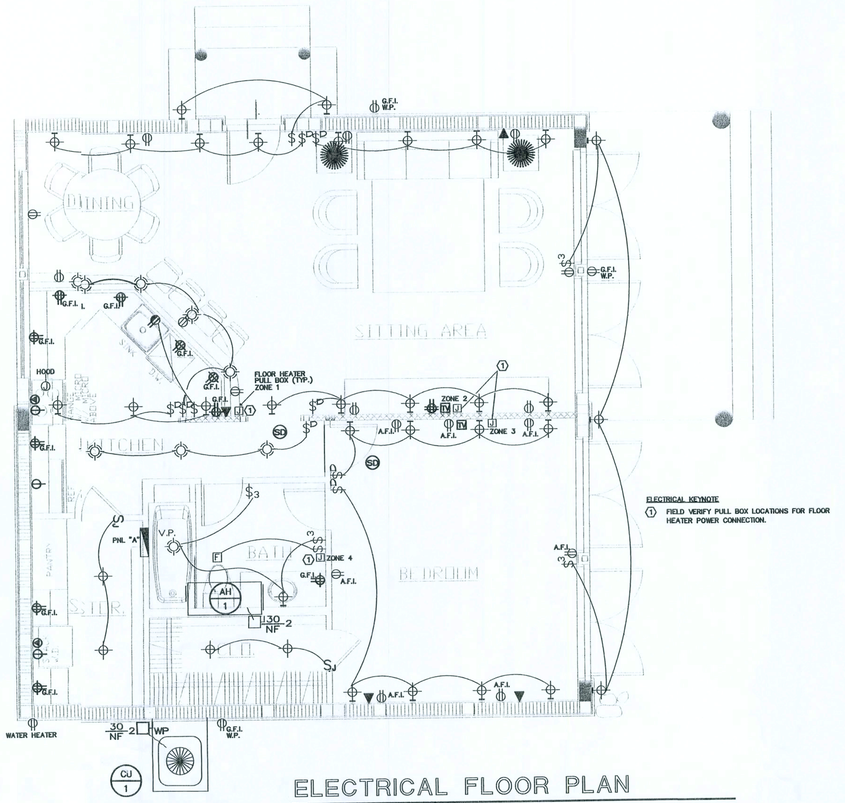
A. On completion of work, remove all excess material, equipment and debris. Leave workspace in clean condition.

ELECTRICAL LEGEND:

SYMBOL	DESCRIPTION
$	SINGLE POLE SWITCH – 20A/120V.
$3	3 – WAY SWITCH – 20A/120V.
$4	4 – WAY SWITCH – 20A/120V
SJ	DOOR JAMB SWITCH FOR CLOSET LIGHTS
	DIMMER SWITCH
$DP 3	3 – WAY DIMMER 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
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.
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.
SD	SMOKE DETECTOR / SMOKE ALARM.

LIGHTING FIXTURE LEGEND:

SYMBOL	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 FLUORESCENT LIGHT FIXTURE ASSEMBLY WRAP AROUND LENS
	CEILING FAN



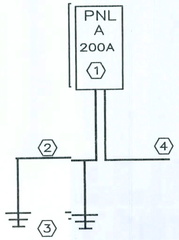
ELECTRICAL KEYNOTE
1. FIELD VERIFY PULL BOX LOCATIONS FOR FLOOR HEATER POWER CONNECTION.

ELECTRICAL FLOOR PLAN

SCALE 1/4"=1'-0"

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 SPACED A MINIMUM OF 6 FEET APART. THERMALLY CONNECTED TO GROUNDING CONDUCTOR AND
4. 2" CONDUIT WITH (3)–3/0 THHN CU. CONDUCTOR FROM SERVICE RACK MAIN SERVICE PANEL.



ELECTRICAL RISER DIAGRAM

NOT TO SCALE

PANELBOARD A

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

WIRE SIZE	DESCRIPTION	APPLIM KVA	HVAC KVA HEAT	HVAC KVA AC	BREAKER TRIP	BREAKER POLE	CIRCUIT NUMBER		BREAKER POLE	BREAKER TRIP	HVAC KVA AC	HVAC KVA HEAT	APPLIM KVA	DESCRIPTION	WIRE SIZE
#12	APPLIANCE CIRCUIT	1.5			20	1	1	2	2	20		2.9		FLOOR HEATER (G.F.I.)- ZONE 1	#10
#12	APPLIANCE CIRCUIT	1.5			20	1	3	4							
#12	REFRIGERATOR	1.5			20	1	5	6	1	20				THERMOSTAT G.F.I.- ZONE 1	#12
#12	DISHWASHER	1.5			20	1	7	8	2	30		3.2		FLOOR HEATER (G.F.I.)-ZONE 2	#10
#12	DISPOSAL	1.2			20	1	9	10							
#12	MICROWAVE	1.5			20	1	11	12	1	20				THERMOSTAT G.F.I.- ZONE 2	#12
#12	HOOD EXHAUST FAN	1.0			20	1	13	14	2	30		2.9		FLOOR HEATER (G.F.I.)- ZONE 3	#10
#6	RANGE	10.5			60	2	15	16							
							17	18	1	20				THERMOSTAT G.F.I.-ZONE 3	#12
#12	LAUNDRY CIRCUIT	1.5			20	1	19	20	2	20		0.6		FLOOR HEATER (G.F.I.)-ZONE 4	#10
#12	WASHER	1.5			20	1	21	22							
#10	DRYER	5.5			30	2	23	24	1	20				THERMOSTAT G.F.I.	#12
							25	26	2	20			0.9	A.H.U. (NO HEAT LOAD)	#12
#12	BED RM A.F.I. RECEPTS				20	1	27	28							
#12	BED RM LIGHTS				20	1	29	30	2	30	3.7			COND. UNIT	#10
#12	BATH G.F.I.				20	1	31	32							
#12	EXTERIOR G.F.I.				20	1	33	34	1	20				WATER HEATER (GAS)	#12
#12	GENERAL RECEPTS				20	1	35	36	1	20				GENERAL LIGHTS	#12
#12	GENERAL RECEPTS				20	1	37	38	1	20				GENERAL LIGHTS	#12
	SPACE						39	40						SPACE	
	SPACE						41	42						SPACE	
SUBTOTAL CONNECTED LOADS		28.7	0.0	0.0							3.7	10	0.9		

TOTAL CONNECTED KVA= 32.9
APPLIANCE LOAD @ 100%= 29,600
LTS & RECEPTS. LOAD@ 3/5 F.= 3,288
TOTAL OTHER LOADS= 32,888
FIRST 10KW @ 100%= 10,000
BALANCE @ 40%= 9,155

LARGEST OF THE FOLLOWING
A/C LOAD 3.7 KW @ 100% = -
HEAT LOAD 9.6 KW @ 65% = 6,240

TOTAL DEMAND KVA = 25.4
TOTAL DEMAND AMPS = 105.8
INTERRUPTING RATING 22,000 RMS

GROUND BUS IS REQUIRED
KEYED DOOR LATCH IS NOT REQUIRED

TEELE & ASSOCIATES
CONSULTING ENGINEERS
2103 CORPORATE DRIVE
BOYNTON BEACH, FLORIDA 33426 (561) 738-4747
CERT. OF AUTH. NO. 4659

JOB #20052

MICHAEL A. TEELE, P.E.
ENGINEER OF RECORD
FLORIDA REGISTRATION
P.E. 32055
DATE: APR 06 2007

8-15-06

the lawrence group
ARCHITECTS 206 WORTH AVENUE, PALM BEACH, FLORIDA 33480 P.H. (561) 655-0570

MR. AND MRS. WADE HORNSBY
COLUMBIA COUNTY FLORIDA

GUEST HOUSE
SCALE1/4"=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 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.

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. 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

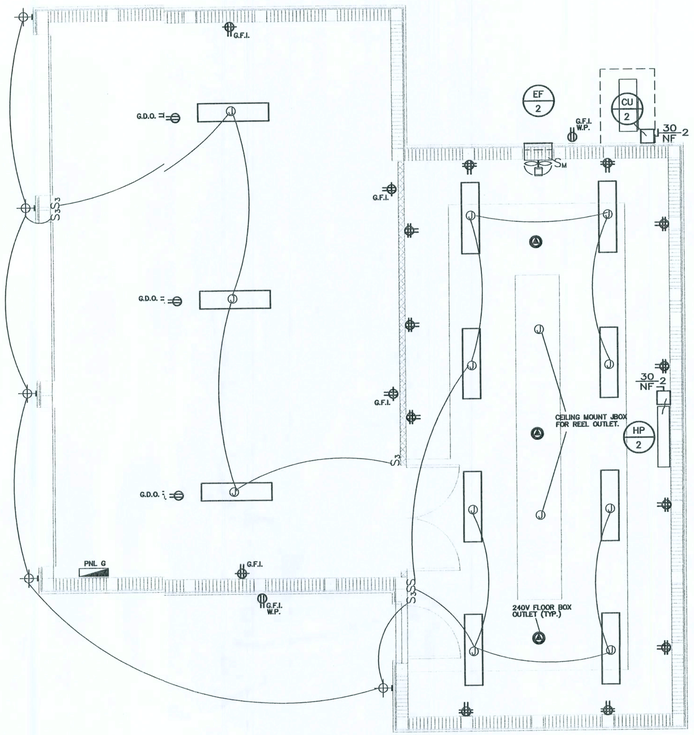
A. On completion of work, remove all excess material, equipment and debris. Leave workspace in clean condition.

ELECTRICAL LEGEND:

SYMBL	DESCRIPTION
$	SINGLE POLE SWITCH – 20A/120V.
$3	3 – WAY SWITCH – 20A/120V.
$4	4 – WAY SWITCH – 20A/120V
S	DOOR JAMB SWITCH FOR CLOSET LIGHTS
$D	DIMMER SWITCH
$3D	3 – WAY DIMMER SWITCH
S1	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
GFI	DUPLEX RECEPTACLE – 20A/125V ISOLATED GROUND.
GFI WP	DUPLEX RECEPTACLE – 20A/125V GROUND FAULT INTERRUPTER.
WP	OUTLET – WEATHERPROOF.
	POWER OUTLET – VOLTAGE & SIZE AS NOTED.
	FLOORBOX WITH DUPLEX RECEPTACLE 20A/125V.
	DISCONNECT, VOLTAGE & SIZE AS NOTED.
J	JUNCTION BOX
T	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:

SYMBOL	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 #EF71FB

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	APPLIM 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	APPLIM KVA	DESCRIPTION	WIRE SIZE
#12	GARAGE DOOR OPENER	1.0			20	1	1	2	2	20		2.5		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 @ 100%= 32,000
LTS & RECEPTS. LOAD@ 3/S.F.= 3,528
TOTAL OTHER LOADS= 35,528
FIRST 10KW @ 100%= 10,000
BALANCE @ 40%= 10,211

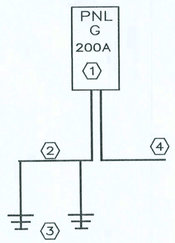
LARGEST OF THE FOLLOWING
A/C LOAD 2.4 KW @ 100% = 2,400
HEAT LOAD 2.5 KW @ 65% = -

TOTAL DEMAND KVA = 22.6
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

JOB #28068

MICHAEL A. TEELE, P.E.
ENGINEER OF RECORD
FLORIDA REGISTRATION
P.E. 32066
DATE: APR 06 2007

TEELE & ASSOCIATES
CONSULTING ENGINEERS
2103 CORPORATE DRIVE
BOYNTON BEACH, FLORIDA 33426 (561) 738-4747
CERT. OF AUTH. NO. 4659

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

E-2

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 RAC
MOUNTING SURFACE - IMA 3R
FEEDER CONDUCTORS (6)-4/0 THH CU
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				
–	SPACE	–	2	9	10	2	–	SPACE	–
				11	12				
–	SPACE	–	2	13	14	2	60	SURGE SUPPRESSION MODE	#8
				15	16				

DEMAND KVA –
INTERUPTING RATING 10,000 RMS SYM.

GROUND BUS IS REQUIRED
KEYED DOOR LATCH IS NOREQUIRED
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 RAC
MOUNTING SURFACE
FEEDER CONDUCTORS (3)-3/0 THH CU
FEEDING CONDUIT 2"
MANUF. CAT. NO. SQ. D "QO13X150GRB"

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	IRRAGATION 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 NOREQUIRED
FEED TO BE BOTTOM

IRRAGATION 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)-#6 THWNCU
FEEDING CONDUIT 1 1/2"
MANUF. CAT. NO. SQ. D "QO114L125GRB"

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 NOREQUIRED
FEED TO BE BOTTOM

ALL NUMBERS ARE SQUARE D

MAIN POWER PANEL
(1) HCM4484
(1) HC3248VP
(1) HC4SN
(1) HNM1BL
(1) HNN4BL
(1) PG32DGTA
(1) QBA22200AB
(1) FA222060AB

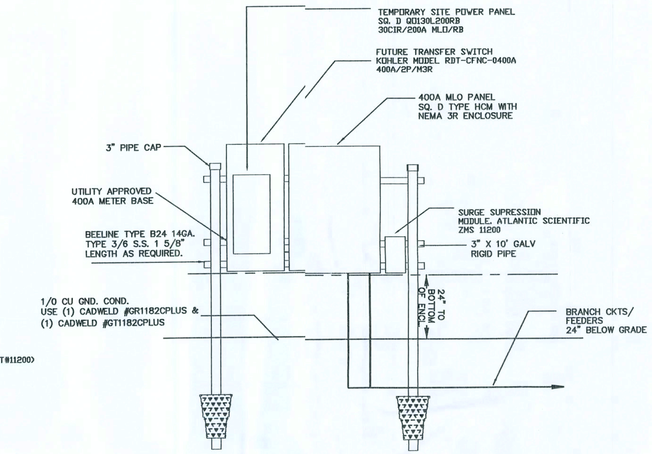
TEMPORARY SITE PANEL
(1) QO130L200GRB
(1) QO280
(2) QO120GFI

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

MAIN DISCONNECT
(1) H225NR
(2) PKOGTAR
(1) H8K4060
(2) KTNR400 (BUSSMAN)

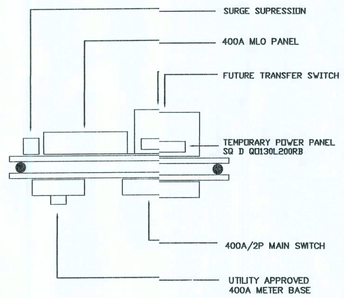
GROUNDING
(4) 3/4" X 10' GROUND RODS
(2) CADWELD GT1182CPLUS
(2) CADWELD GR1182CPLUS
(1) CADWELD PLUSCU

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



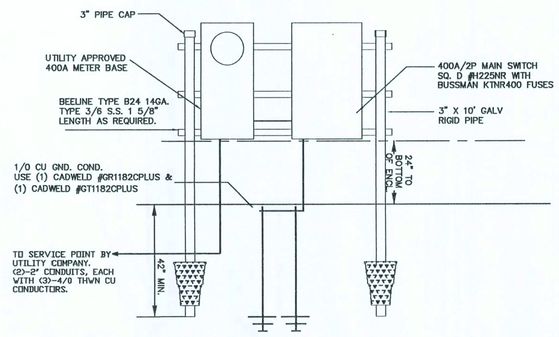
SERVICE RACK - FRONT SIDE

NOT TO SCALE



SERVICE RACK - TOP VIEW

NOT TO SCALE



SERVICE RACK - BACK SIDE

NOT TO SCALE

8-15-06

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

SERVICE RACK DETAIL
SCALE:1/4"-1'-0"

E-3

6004

JOB #2005

MICHAEL A. TEELE, P.E.
ENGINEER OF RECORD
FLORIDA REGISTRATION
P.E. 32065
DATE: APR 06 2007

TEELE & ASSOCIATES
CONSULTING ENGINEERS
2103 CORPORATE DRIVE
BOYNTON BEACH, FLORIDA 33426 (561) 738-4747
DEPT. OF AUTH. NO. 4688