# 1821

# THE WALTON IV(SIDING)

## FLORIDA SERIES

PAD SIZE: 40' X 60'

SHEET INDEX:


| | |
|---|---|
| 00 | COVER SHEET |
| 01AB | FOUNDATION PLAN "A"&"B" |
| 01C | FOUNDATION PLAN "C" |
| 02AB | FLOOR PLAN W/ DIMENSIONS "A"&"B" |
| 02C | FLOOR PLAN W/ DIMENSIONS "C" |
| 03AB | FLOOR PLAN W/ NOTES "A"&"B" |
| 03C | FLOOR PLAN W/ NOTES "C" |
| 04A | EXTER. ELEVATION "A"- FRONT & REAR |
| 04B | EXTER. ELEVATION "B"- FRONT & REAR |
| 04C | EXTER. ELEVATION "C"- FRONT & REAR |
| 05A | EXTER. ELEVATION "A"- LEFT & RIGHT |
| 05B | EXTER. ELEVATION "B"- LEFT & RIGHT |
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| 06 | CROSS SECTION / INTERIOR ELEVATIONS |
| 07 | ELECTRICAL PLAN |
| 08A | TRUSS LAYOUT "A" |
| 08B | TRUSS LAYOUT "B" |
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| 09AB | PRE-CAST LINTEL LAYOUT "A"&"B" |
| 09C | PRE-CAST LINTEL LAYOUT "C" |
| 10 | TYPICAL DETAILS |
| 11 | TYPICAL DETAILS |
| D1 | TYPICAL STRUCTURAL DETAILS |
| D2 | TYPICAL STRUCTURAL DETAILS |
| D3 | TYPICAL STRUCTURAL DETAILS |


REVISION SCHEDULE

| NO. | DATE | DESCRIPTION | BY |
|---|---|---|---|
| 1 | 06-25-14 | ADD 3-CAR GARAGE OPTION | RDC |
| 2 | 12-01-14 | -ADJUST FOYER/ENTRY WALL, MOVE M.BR. DOOR<br>-REDESIGN DROPZONE AREA | RDC |
| 3 | 04-02-15 | -ADD NEW ELEVATION "C"<br>-ADD NEW ELEVATION "D"<br>-ADDED FRAME WALK CHANGES INCLUDING:<br>-REDESIGN DROPZONE AREA/BROOM CLOSET<br>-RELOCATE M/ SHWR ENCLOSURE DR. & VALVE<br>-SHORTEN F. RM. 1/2 WALL 16" | MW |
| 4 | 07-22-15 | -UPDATED TO 5TH EDITION (2014) CODE | MW |
| 5 | 01-14-16 | -REVISED KITCHEN ISLAND | MW |
| 5 | 04-04-16 | -ADD WALL MOUNT LIGHT IN LANAI STD | MW |
| 6 | 05-22-17 | -RENAMED PLAN "1821 WALTON II" | DAL |
| 7 | 02-09-18 | -UPDATE - 2017 CODE | MW |
| 8 | 02/18/19 | -ADDED 2019 PLAN FEST CHANGES | MW |
| 9 | 05-16-19 | -ADDED NEW A,B,C SIDING ELEVATIONS | JF |
| 10 | 07-08-19 | -REVISED ENTRY FLOORING | MW |

THIS STRUCTURE IS DESIGNED TO WITHSTAND 150 MPH WINDS PER THE 7th EDITION, 2020 OF THE FLORIDA BUILDING CODE RESIDENTIAL AND IS CERTIFIED AS SUCH

FLORIDA SERIES

| REVISIONS | BY |
|---|---|
| 05-16-19 | JF |


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Park Square HOMES

COVER SHEET

1821

THE WALTON IV


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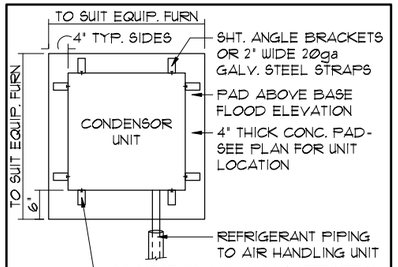
| | |
|---|---|
| DATE | 04-04-12 |
| SCALE | AS NOTED |
| DRAWN | RDC |
| JOB | 1821 |
| SHEET | 00 |
| OF | SHEETS |

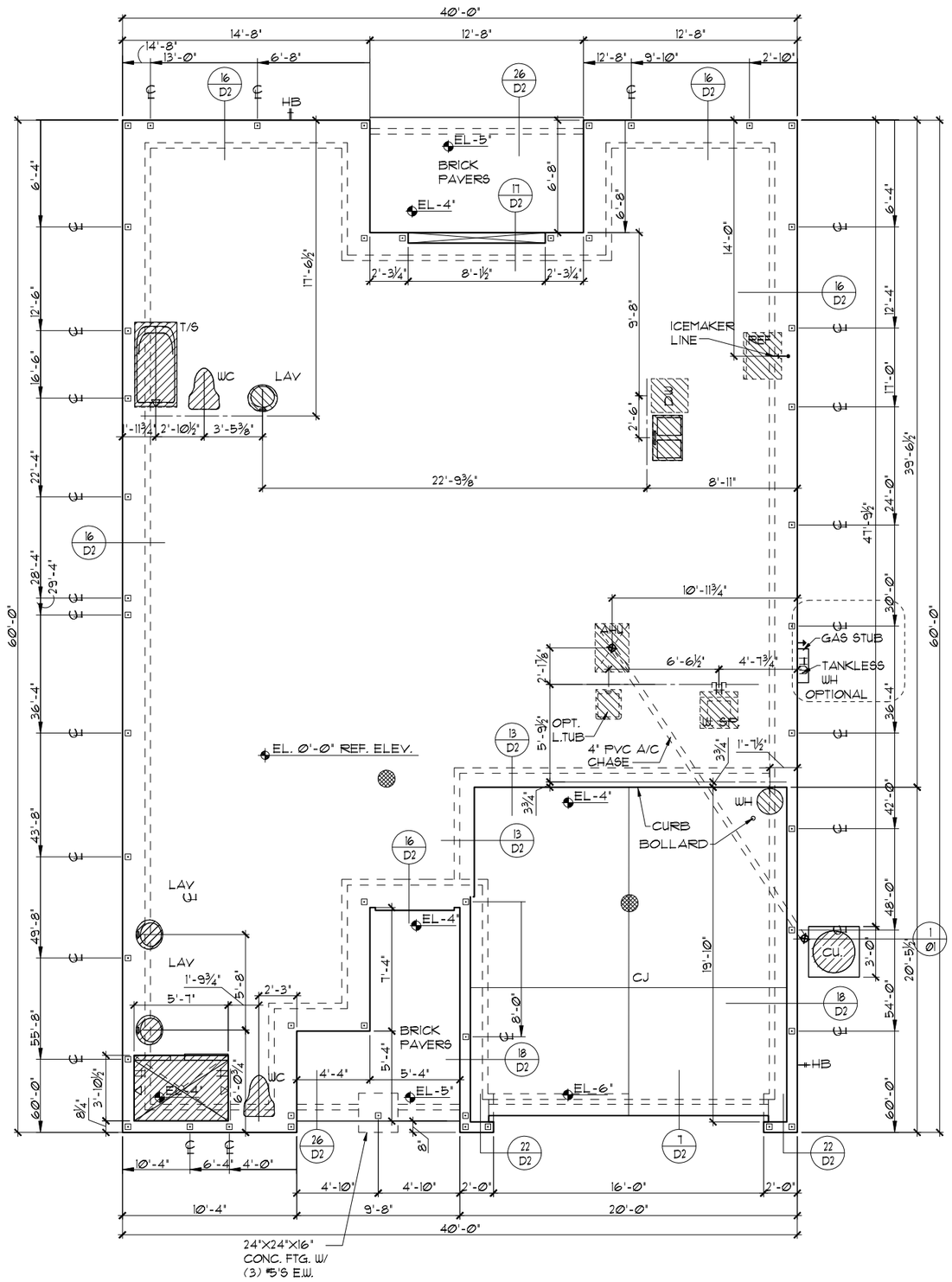



| ANCHOR SPACING TABLE | |
|---|---|
| LENGTH / SIDE | NO. OF ANCHOR/SIDES |
| LESS THAN 12" | ONE / SIDE |
| 12" - 24" | TWO / SIDE |
| 24" - 36" | THREE / SIDE |
| 36" UP & 5tons & UP | FOUR / SIDE |

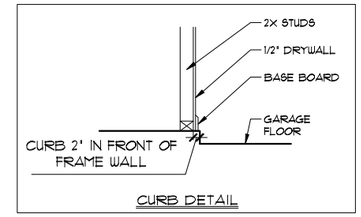
1/01 COND. ANCHOR DET.
N.T.S.

## FOUNDATION NOTES

1. CONTRACTOR VERIFY ALL DIMENSIONS ON JOB SITE.
2. ⊡ DENOTES FILL CELL REINF. W/ CONC. W/ (1) #5φ REBAR. GRADE 60
3. ■ DENOTES FILL CELL REINF. W/ CONC. W/ (2) #5φ REBAR. GRADE 60
4. DO NOT SCALE PRINTS! CONSTRUCTION TO BE FROM CALCULATED DIMENSIONS ONLY. ANY DISCREPANCIES OR ERRORS TO BE REPORTED PROMPTLY TO SUPERVISOR FOR CLARIFICATION.
5. WATER HEATER T & P RELIEF VALVE SHALL BE FULL SIZE TO EXTERIOR. WATER HEATER AT OR ABOVE FLOOR LEVEL SHALL BE IN A PAN WITH DRAIN TO EXTERIOR. WATER HEATER SHALL HAVE APPROVED THERMAL EXPANSION DEVICE.
6. ▩ DENOTES FLOOR SLAB OF PLANT MIX CONCRETE 2500 P.S.I. 4" THICK WITH 6X6 10/10 GAUGE REINFORCING MAT. WITH .006mm (6 mil) POLYETHYLENE VAPOR BARRIER OVER COMPACTED CLEAN FILL. WWF SHALL BE PLACED IN MIDDLE TO UPPER THIRD OF SLAB AND SUPPORTED ON APPROVED SLAB BOLSTERS. *FIBER MESH REINFORCEMENT MAY BE USED AS ALTERNATIVE TO WIRE MESH.
7. PAVERS MAY BE USED ILO CONCRETE SLABS IN PATIO, PORCH, DRIVE AND WALKWAY AREAS. DELETE SLAB IN AREAS PAVERS ARE USED.
8. ~~16/D2 STANDARD FOOTING~~ ~~1/D2 ALTERNATE FOOTING~~ NOTE #8 NOT USED
9. MECHANICAL EQUIP. LOCATIONS WILL BE DETERMINED BY COMMUNITY AND COUNTY CODES.
10. IN LIEU OF TREATING THE SOIL, AN ALTERNATIVE TO TERMITE TREATED SOIL CAN BE TERMICIDE.
11. BORA-CARE TO BE APPLIED ON INTERIOR WALLS IAW MANUFACTURER'S INSTRUCTIONS AND SPECIFICATIONS, PURSUANT TO CH.482 FLORDA BUILDING CODE.




FOUNDATION PLAN "A"/"B"
1/8"=1'-0" (11X17) 1/4"=1'-0" (22X34)




CURB DETAIL

THIS STRUCTURE IS DESIGNED TO WITHSTAND 150 MPH WINDS PER THE 7th EDITION, 2020 OF THE FLORIDA BUILDING CODE RESIDENTIAL AND IS CERTIFIED AS SUCH

FLORIDA SERIES

| REVISIONS | BY |
|---|---|
| 05-16-19 | JF |

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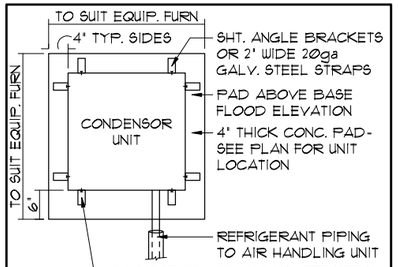
FOUNDATION PLAN

1821
THE WALTON IV

| | |
|---|---|
| DATE | 04-04-12 |
| SCALE | AS NOTED |
| DRAWN | RDC |
| JOB | 1821 |
| SHEET | 01AB |
| OF | SHEETS |

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1/01 COND. ANCHOR DET.

N.T.S.

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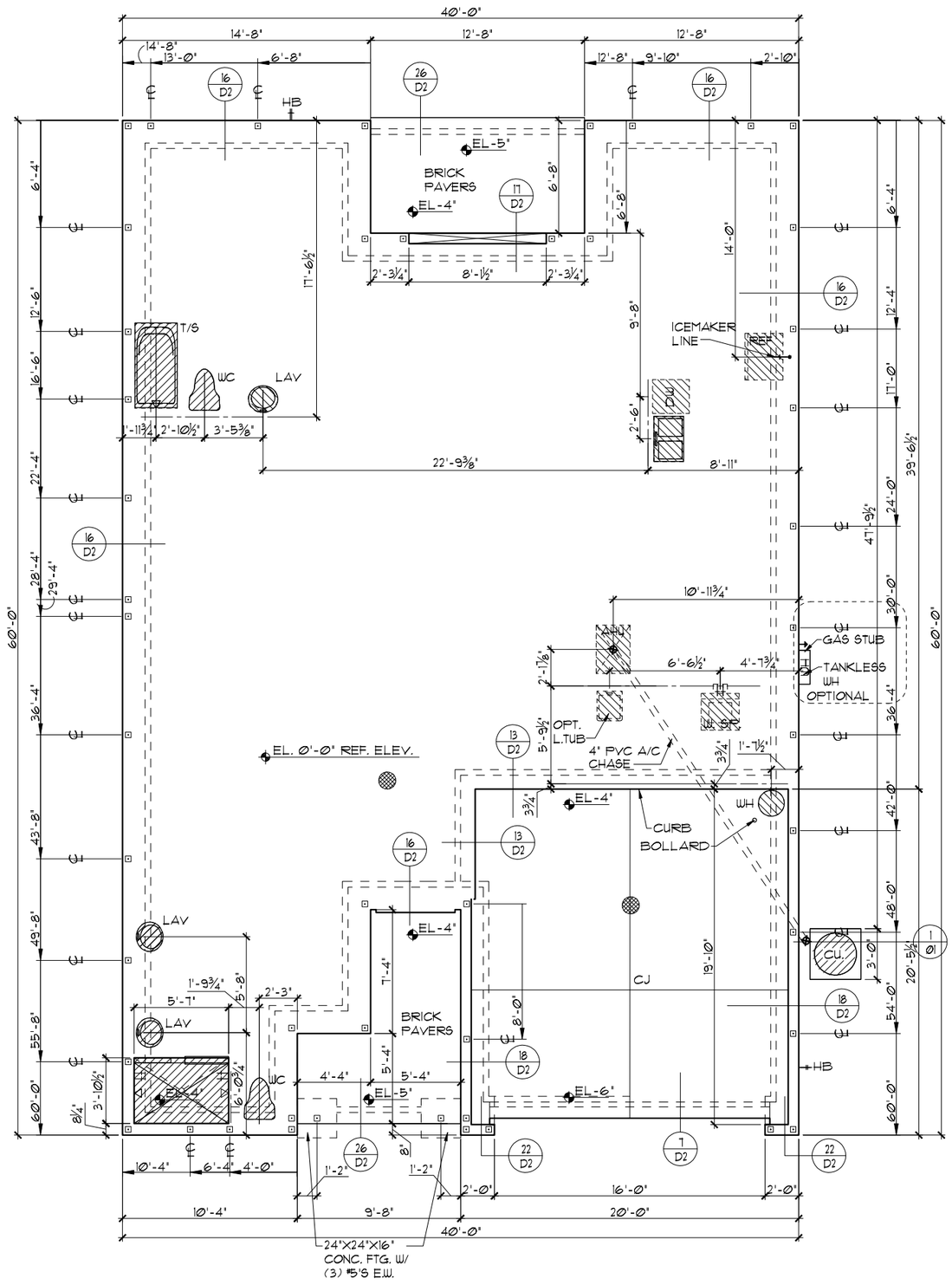
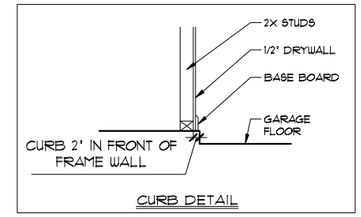



FOUNDATION PLAN "C"

1/8"=1'-0" (11X17) 1/4"=1'-0" (22X34)

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FLORIDA SERIES

| REVISIONS | BY |
|---|---|
| 05-16-19 | JF |

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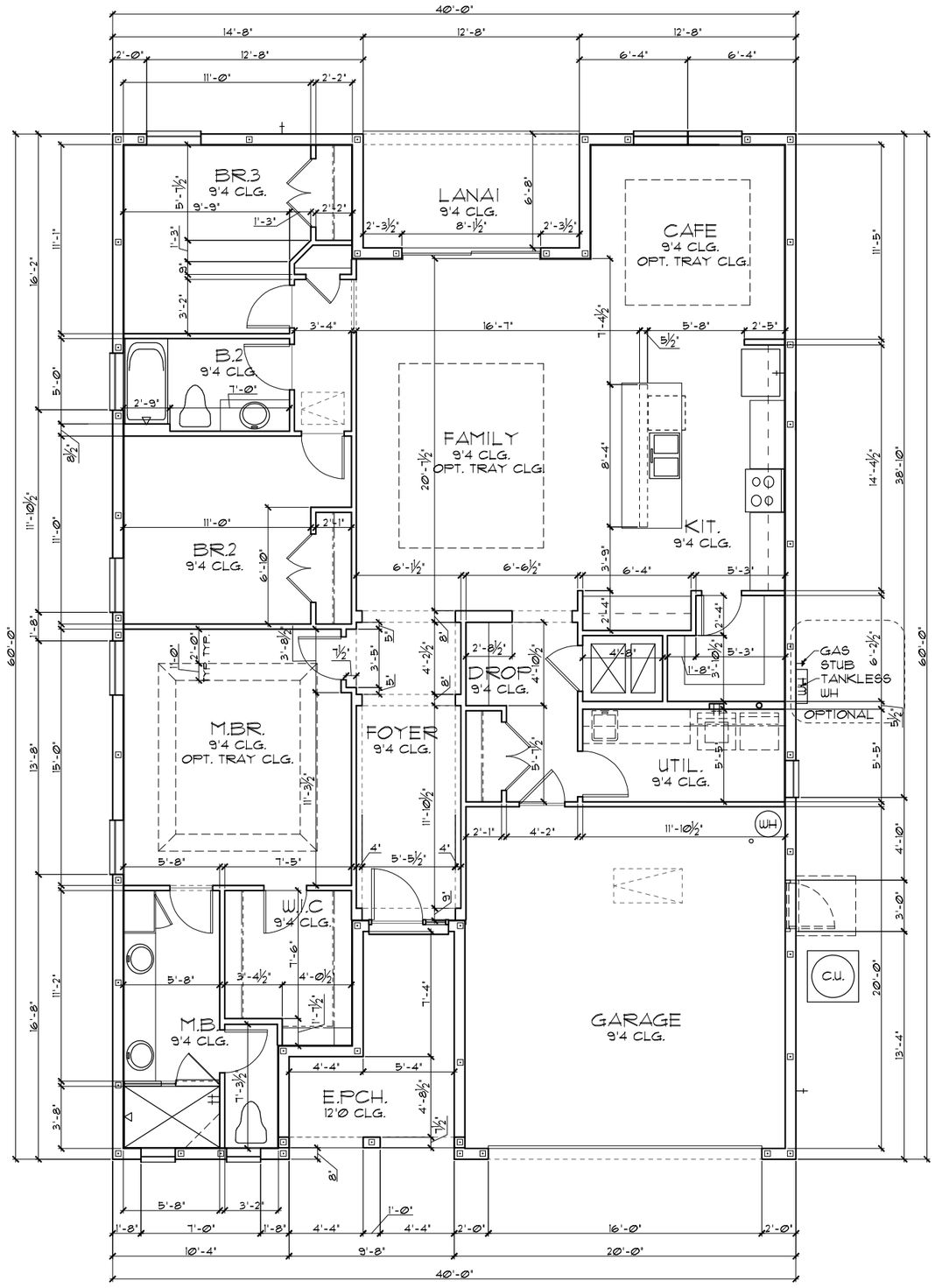
FOUNDATION PLAN

1821

THE WALTON IV

| | |
|---|---|
| DATE | 04-04-12 |
| SCALE | AS NOTED |
| DRAWN | RDC |
| JOB | 1821 |
| SHEET | 01C |
| OF | SHEETS |




FLOOR PLAN W/ DIMENSIONS "A"/"B"

1/8"=1'-0" (11X17) 1/4"=1'-0" (22X34)

| TABULATION | |
|---|---|
| TOTAL LIVING | 1,811 SF. |
| GARAGE | 408 SF. |
| ENTRY PORCH | 91 SF. |
| LANAI | 84 SF. |
| TOTAL UNDER ROOF | 2,394 SF. |

GENERAL NOTES

1. CONTRACTOR TO VERIFY ALL DIMENSIONS ON JOB SITE.
2. DO NOT SCALE PRINTS! CONSTRUCTION TO BE FROM CALCULATED DIMENSIONS ONLY. ANY DISCREPANCIES OR ERRORS TO BE REPORTED PROMPTLY TO SUPERVISOR FOR CLARIFICATION.
3. ALL INTERIOR FRAME WALL DIMENSIONS TO BE 3½" UNLESS NOTED OTHERWISE.
4. ALL EXTERIOR BLOCK WALL DIMENSIONS TO BE 7½" UNLESS NOTED OTHERWISE.
5. PULL ALL DIMENSIONS FROM THE REAR OF PLAN.

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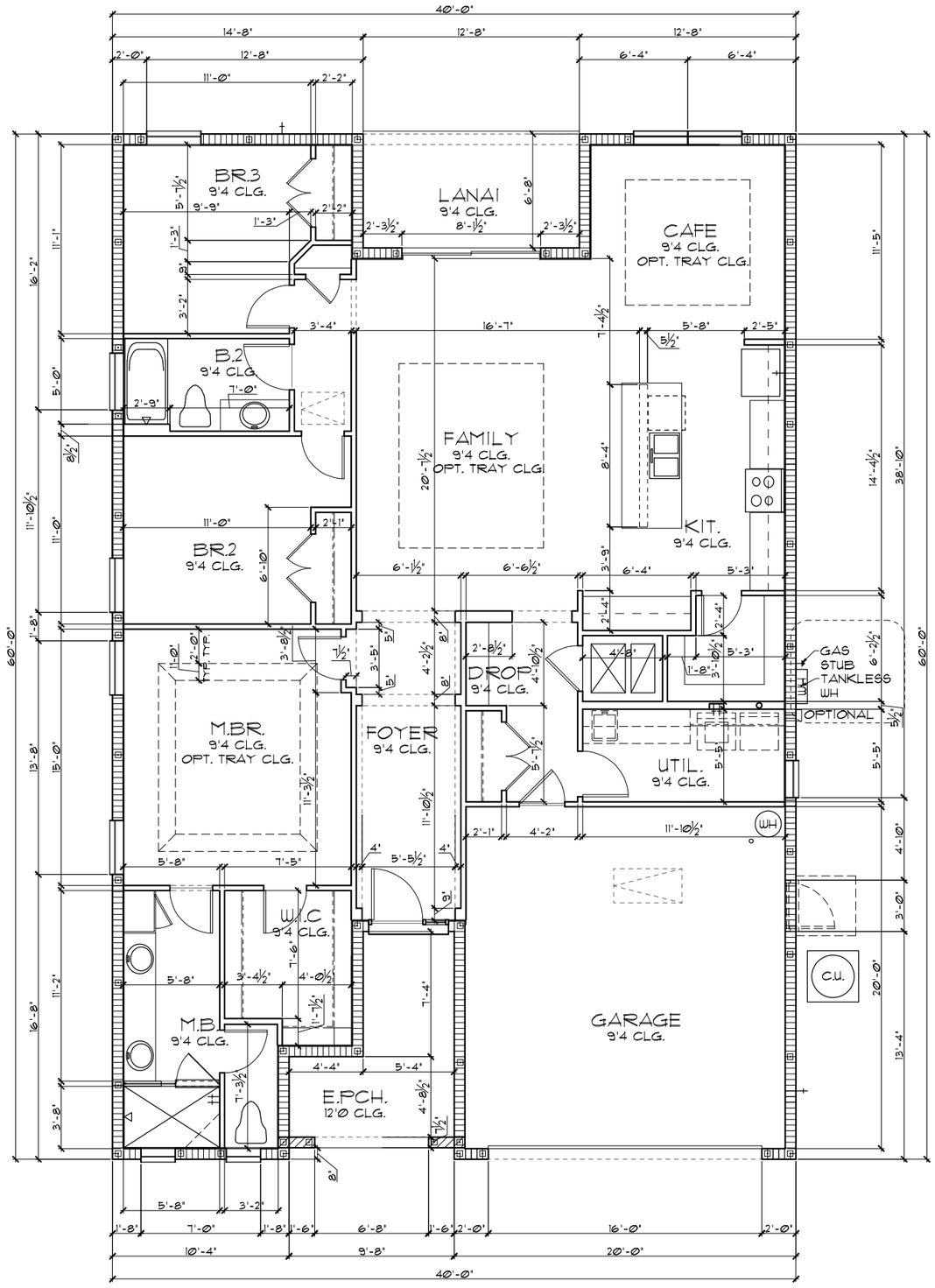
FLOOR PLAN W/ DIMENSIONS

1821

THE WALTON IV

| | |
|---|---|
| DATE | 04-04-12 |
| SCALE | AS NOTED |
| DRAWN | RDC |
| JOB | 1821 |
| SHEET | 02AB |
| OF | SHEETS |




FLOOR PLAN W/ DIMENSIONS "C"

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FLOOR PLAN W/ DIMENSIONS

1821

THE WALTON IV

| | |
|---|---|
| DATE | 04-04-12 |
| SCALE | AS NOTED |
| DRAWN | RDC |
| JOB | 1821 |
| SHEET | 02C |
| OF | SHEETS |

## LOAD INFORMATION

PER 7TH EDITION, 2020 FLORIDA BUILDING RESIDENTAIL CODE

DEAD LOADS

| | | |
|---|---|---|
| FLOOR: | STRUCTURE | 7 PSF |
| | CEILINGS | 3 PSF |
| | MECH/ELEC | 5 PSF |
| | PARTITIONS | 5 PSF |
| | TOTAL | 20 PSF |
| ROOF: | SHEATHING | 5 PSF |
| | STRUCTURE | 7 PSF |
| | CEILINGS | 3 PSF |
| | MECH/ELEC | 5 PSF |
| | TOTAL | 20 PSF |

FLOOR LIVE LOADS

| | |
|---|---|
| RESIDENTIAL FLOOR: | 40 PSF |
| UNINHABITABLE ATTIC WITHOUT STORAGE: | 10 PSF |
| UNINHABITABLE ATTIC W/LIMITED STORAGE: | 20 PSF |
| ROOMS OTHER THAN SLEEPING ROOM: | 40 PSF |
| SLEEPING ROOM: | 30 PSF |
| STAIR LIVE LOAD: | 40 PSF |

ROOF LIVE LOADS

MINIMUM ROOF LIVE LOAD (PSF)
TRIBUTARY LOADED AREA (SQ. FT.)
FOR ANY STRUCTURAL MEMBER

| ROOF SLOPE | 0-200 | 201-600 | OVER 600 |
|---|---|---|---|
| 0:12 < 4:12 | 20 | 16 | 12 |
| ≥ 4:12 < 12:12 | 16 | 14 | 12 |
| ≥ 12:12 | 12 | 12 | 12 |

## WIND INFORMATION

PER 7TH EDITION, 2020 FLORIDA BUILDING RESIDENTAIL CODE

1. BASIC WIND SPEED: 150 MPH
2. WIND IMPORTANCE FACTOR: N/A
3. BUILDING CATEGORY: C
4. INTERNAL PRESSURE COEFFICIENT: +/-.18, INCLUDED IN NOTE #5
5. COMPONENT / CLADDING DESIGN WIND PRESSURE: SEE PLAN

| | |
|---|---|
| + XXX | DESIGN WIND PRESSURE IAW FLA |
| - XXX | RESIDENTIAL CODE, SECTION R301 |

NOTE: DESIGN PRESSURES BASED ON BASIC WIND SPEED AND NOT ULTIMATE WIND SPEED.

## GENERAL NOTES

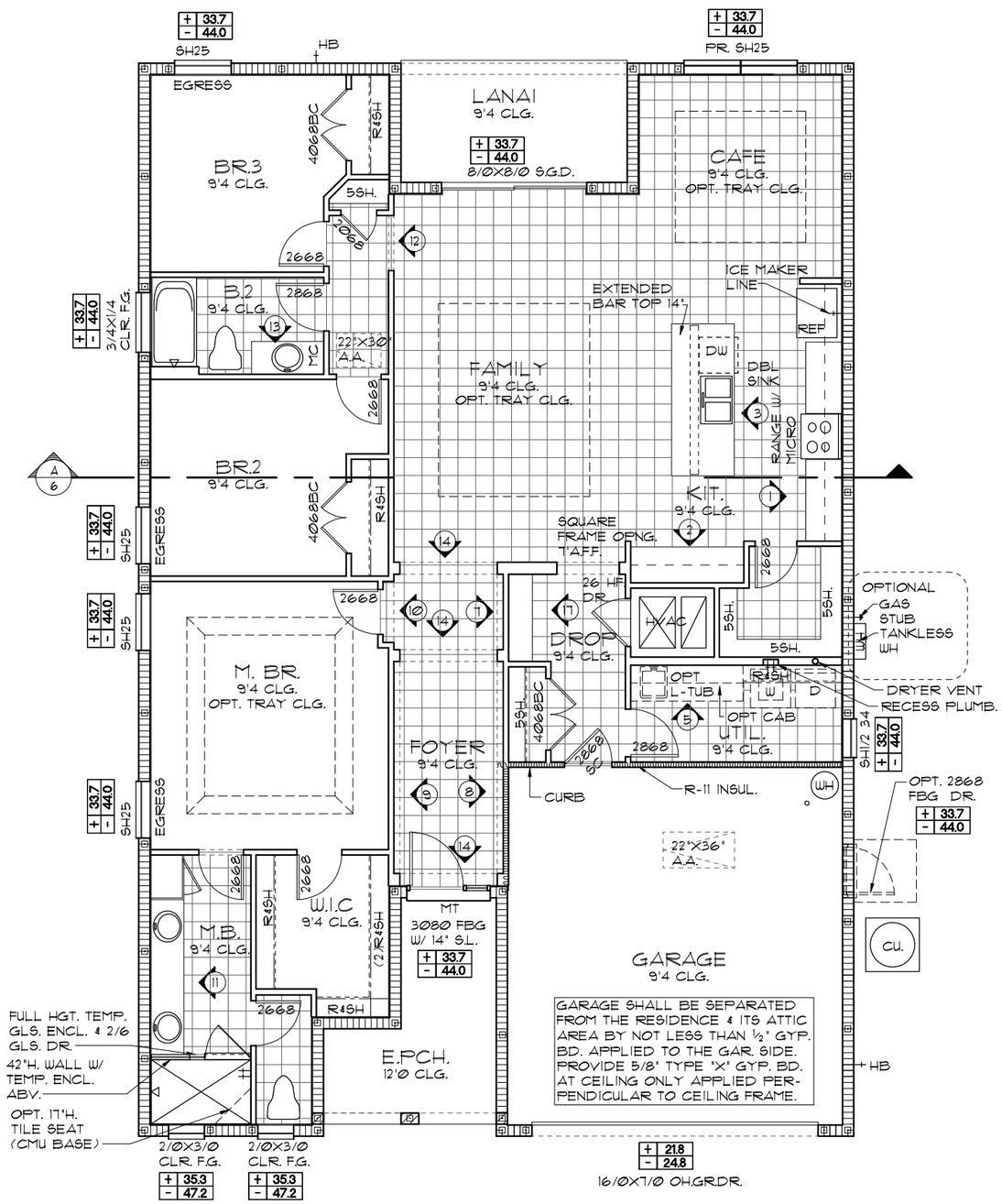
1. PROVIDE RECESS HOT & COLD WATER WITH DRAIN @ WASHER SPACE.
2. VENT DRYER THRU ROOF.
3. PROVIDE COLD WATER LINE FOR ICE MAKER LINE @ REF. SPACE.
4. DO NOT SCALE PRINTS! CONSTRUCTION TO BE FROM CALCULATED DIMENSIONS ONLY. ANY DISCREPANCIES OR ERRORS TO BE REPORTED PROMPTLY TO SUPERVISOR FOR CLARIFICATION.
5. MECHANICAL EQUIPMENT LOCATION TO BE DETERMINED BY COMMUNITY STANDARDS AND APPLICABLE COUNTY CODES.
6. DENOTES CONC. BLOCK WALL HGT. @ 9'-4" A.F.F.
   DENOTES CONC. BLOCK WALL HGT. @ 12'-0" A.F.F.
7. REFER TO TYPICAL DETAIL SHEET FOR EXTERIOR WALL FINISH SPECIFICATIONS
8. REFER TO DETAIL SHEETS FOR FLASHING REQUIREMENTS AT ALL WOOD TO MASONRY INTERFACES
9. ANCHOR THE CONDENSER UNIT TO SLAB PER CODE: M 307.3 + 1307.3.1
10. ALL INTER. FIRST FLOOR CEILINGS AT 10'-0" UNLESS NOTED OTHERWISE.
    ALL INTER. SECOND FLOOR CEILINGS AT N/A UNLESS NOTED OTHERWISE.

NOTE: DOOR FROM HOUSE TO GARAGE MUST BE SOLID WOOD DOORS NO LESS 1 3/8" IAW R302.5.1

NOTE: ALL EMERGENCY SCAPE WINDOWS SILLS TO BE NOT MORE THAN 44"MIN. A.F.F.- R310.2 - FBCR (2017)

EGRESS WINDOW SCHEDULE - R310.2.1- FBCR2017

| | | |
|---|---|---|
| SH25 | 33 1/2" H. X 30" W. | MIN. NET CLEAR OPENING 5.7 SQFT |




FLOOR PLAN W/ NOTES "A"/"B"

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NOTE: SEE FINAL COLOR SHEET FOR FLOORING INFO

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|---|---|
| 05-16-19 | JF |


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FLOOR PLAN W/ NOTES

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THE WALTON IV

| | |
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| DRAWN | RDC |
| JOB | 1821 |
| SHEET | 03AB |
| OF | SHEETS |


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DEAD LOADS

| | | |
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## WIND INFORMATION

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2. WIND IMPORTANCE FACTOR: N/A
3. BUILDING CATEGORY: C
4. INTERNAL PRESSURE +/-.18, INCLUDED COEFFICIENT: IN NOTE #5
5. COMPONENT / CLADDING SEE PLAN DESIGN WIND PRESSURE:

| + | XXX | DESIGN WIND PRESSURE IAW FLA |
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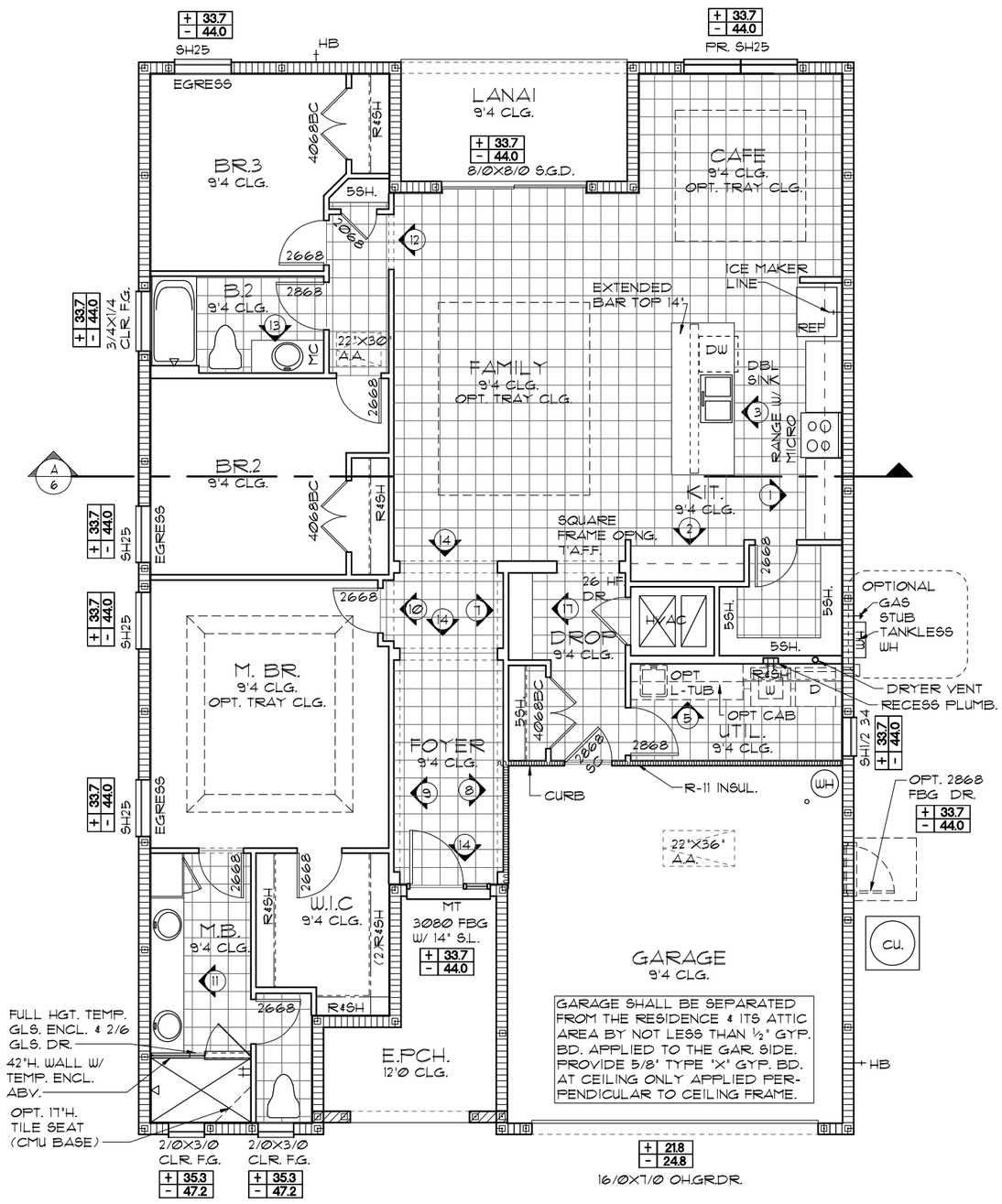
3. PROVIDE COLD WATER LINE FOR ICE MAKER LINE @ REF. SPACE.
4. DO NOT SCALE PRINTS! CONSTRUCTION TO BE FROM CALCULATED DIMENSIONS ONLY. ANY DISCREPANCIES OR ERRORS TO BE REPORTED PROMPTLY TO SUPERVISOR FOR CLARIFICATION.
5. MECHANICAL EQUIPMENT LOCATION TO BE DETERMINED BY COMMUNITY STANDARDS AND APPLICABLE COUNTY CODES.
6. DENOTES CONC. BLOCK WALL HGT. @ 9'-4" A.F.F.
   DENOTES CONC. BLOCK WALL HGT. @ 14'-0" A.F.F.
7. REFER TO TYPICAL DETAIL SHEET FOR EXTERIOR WALL FINISH SPECIFICATIONS
8. REFER TO DETAIL SHEETS FOR FLASHING REQUIREMENTS AT ALL WOOD TO MASONRY INTERFACES
9. ANCHOR THE CONDENSER UNIT TO SLAB PER CODE: M 307.3 + 1307.3.1
10. ALL INTER. FIRST FLOOR CEILINGS AT 10'-0" UNLESS NOTED OTHERWISE.
    ALL INTER. SECOND FLOOR CEILINGS AT N/A UNLESS NOTED OTHERWISE.

NOTE: DOOR FROM HOUSE TO GARAGE MUST BE SOLID WOOD DOORS NO LESS 1 3/8" IAW R302.5.1

NOTE: ALL EMERGENCY SCAPE WINDOWS SILLS TO BE NOT MORE THAN 44"MIN. A.F.F.- R310.2 - FBCR (2017)

EGRESS WINDOW SCHEDULE- R310.2.1- FBCR2017

| | | |
|---|---|---|
| SH25 | 33 1/2" H. X 30" W. | MIN. NET CLEAR OPENING 5.7 SQFT |




## FLOOR PLAN W/ NOTES "C"

1/8"=1'-0" (11X17) 1/4"=1'-0" (22X34)

NOTE: SEE FINAL COLOR SHEET FOR FLOORING INFO

THIS STRUCTURE IS DESIGNED TO WITHSTAND 150 MPH WINDS PER THE 7th EDITION, 2020 OF THE FLORIDA BUILDING CODE RESIDENTIAL AND IS CERTIFIED AS SUCH

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| 05-16-19 | JF |


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Orlando, Florida 32811
Phone: (407) 529 - 3000


Park Square HOMES

FLOOR PLAN W/ NOTES

1821

THE WALTON IV

| | |
|---|---|
| DATE | 04-04-12 |
| SCALE | AS NOTED |
| DRAWN | RDC |
| JOB | 1821 |
| SHEET | 03C |
| OF | SHEETS |


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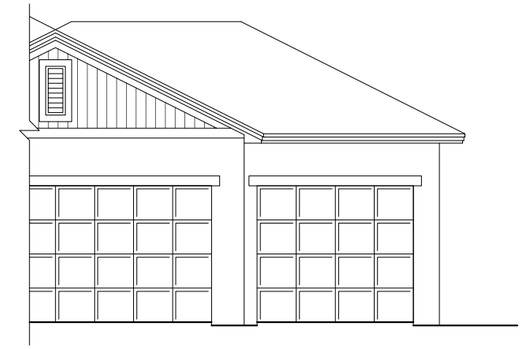
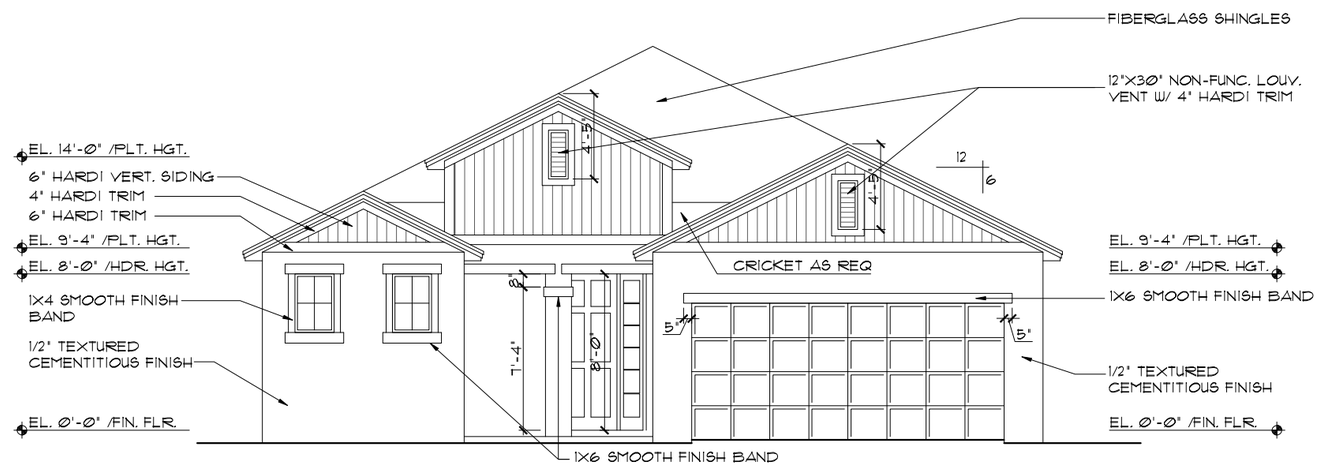
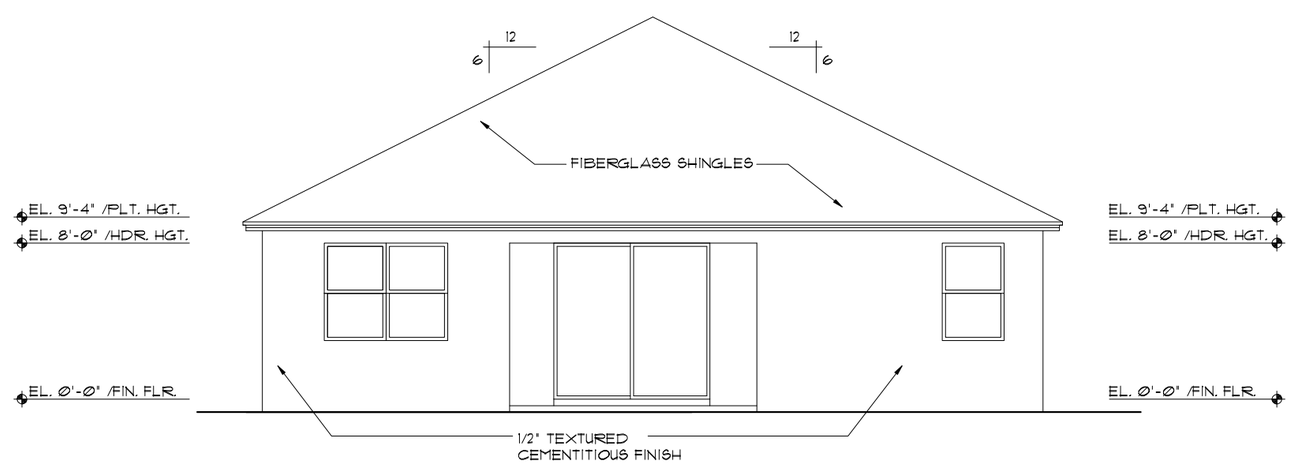


3-CAR GAR. OPTION
1/8"=1'-0" (11X17) 1/4"=1'-0" (22X34)




FRONT ELEVATION "A"
1/8"=1'-0" (11X17) 1/4"=1'-0" (22X34)

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Park Square HOMES

EXTERIOR ELEVATION
FRONT AND REAR

1821

THE WALTON IV


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| | |
|---|---|
| DATE | 04-04-12 |
| SCALE | AS NOTED |
| DRAWN | RDC |
| JOB | 1821 |
| SHEET | 04A |
| OF | SHEETS |

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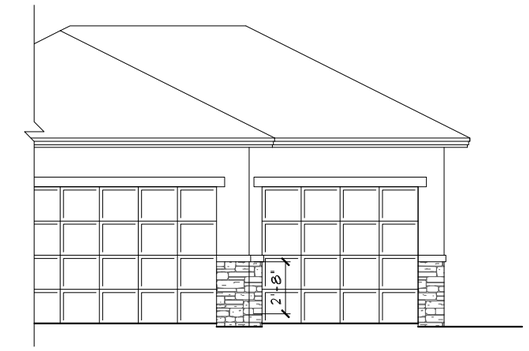


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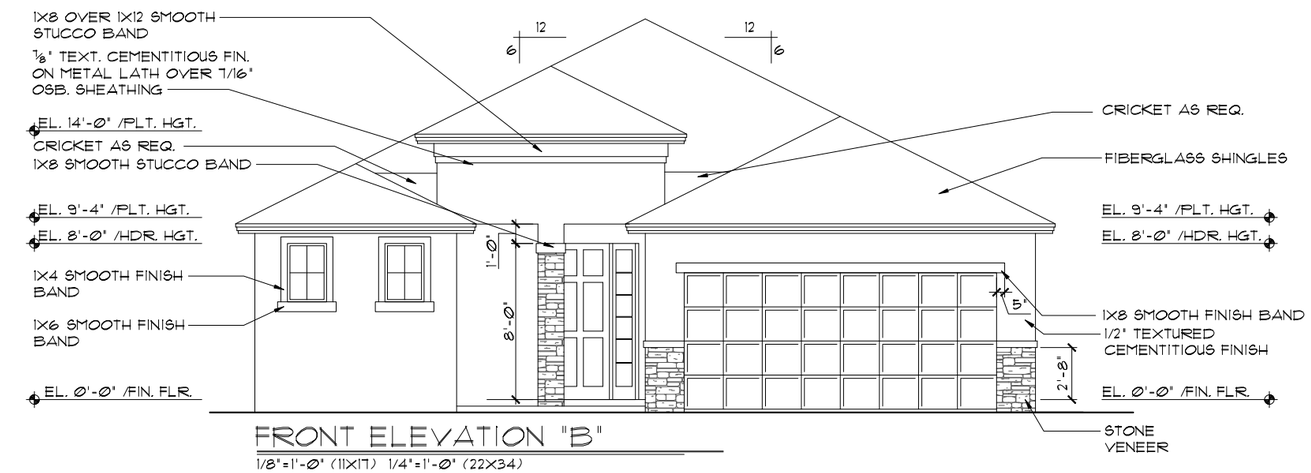
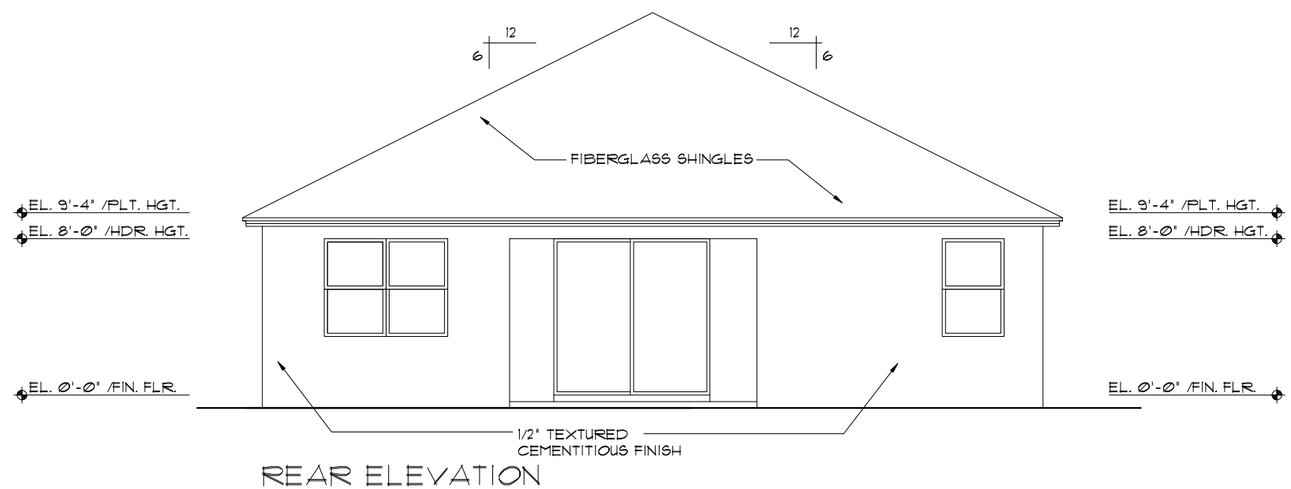



FRONT ELEVATION "B"
1/8"=1'-0" (11X17) 1/4"=1'-0" (22X34)

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| 05-16-19 | JF |

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Phone: (407) 529 - 3000

Park Square HOMES

EXTERIOR ELEVATION
FRONT AND REAR

1821

THE WALTON IV

| | |
|---|---|
| DATE | 04-04-12 |
| SCALE | AS NOTED |
| DRAWN | RDC |
| JOB | 1821 |
| SHEET | 04B |
| OF | SHEETS |

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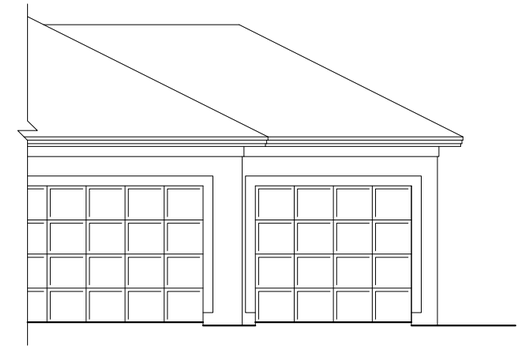
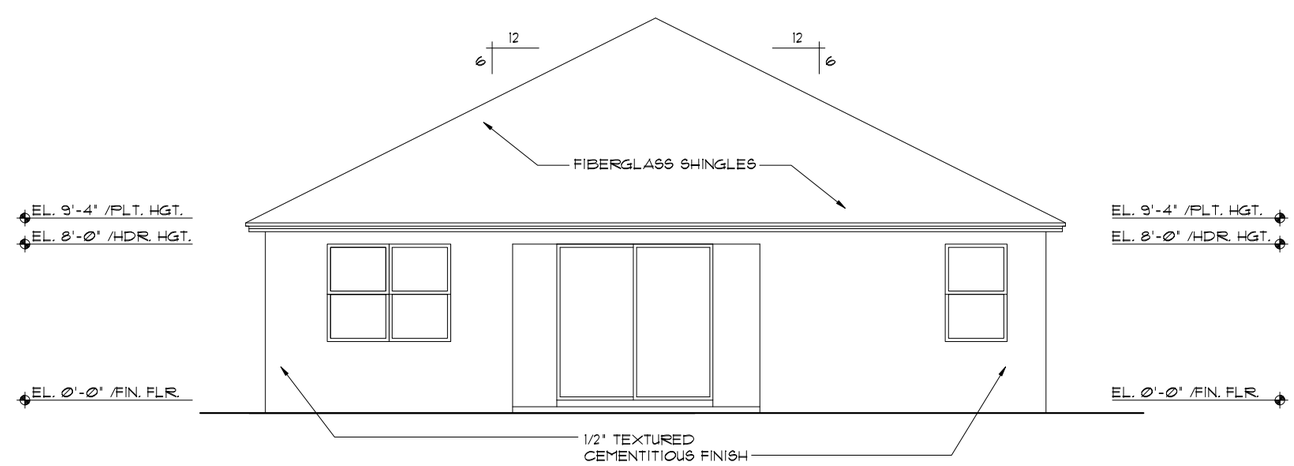


3-CAR GAR. OPTION

1/8"=1'-0" (11X17) 1/4"=1'-0" (22X34)

FRONT ELEVATION "C"

1/8"=1'-0" (11X17) 1/4"=1'-0" (22X34)




REAR ELEVATION

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Park Square HOMES

EXTERIOR ELEVATION FRONT AND REAR

1821

THE WALTON IV

| | |
|---|---|
| DATE | 04-04-12 |
| SCALE | AS NOTED |
| DRAWN | RDC |
| JOB | 1821 |
| SHEET | 04C |
| OF | SHEETS |


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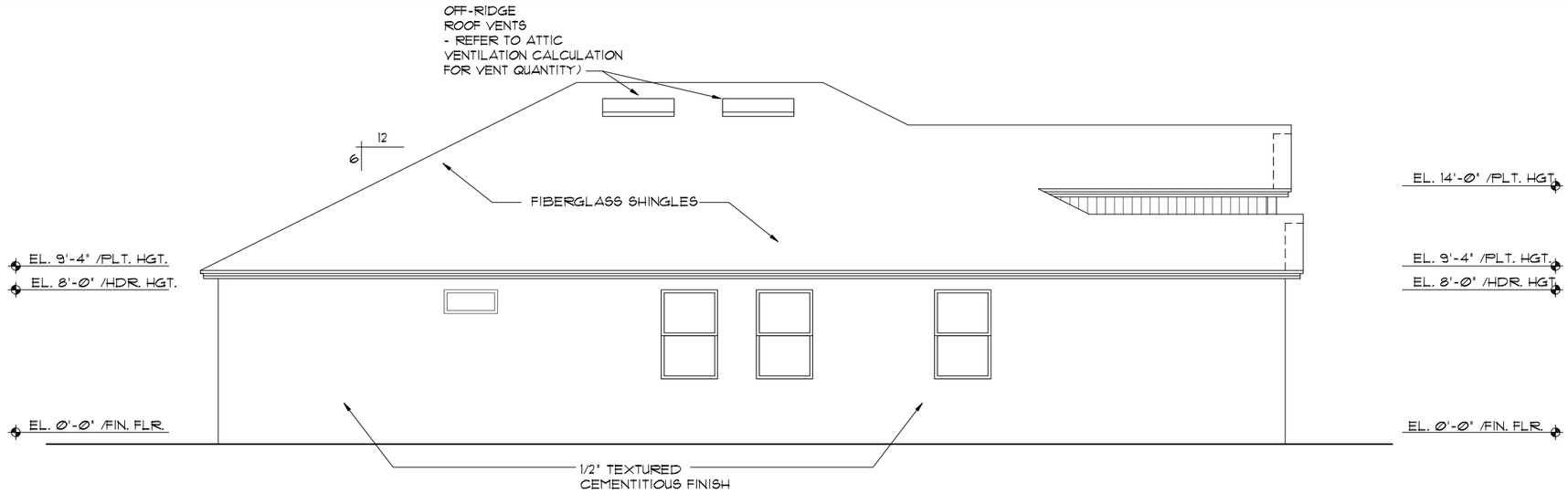


LEFT ELEVATION "A"

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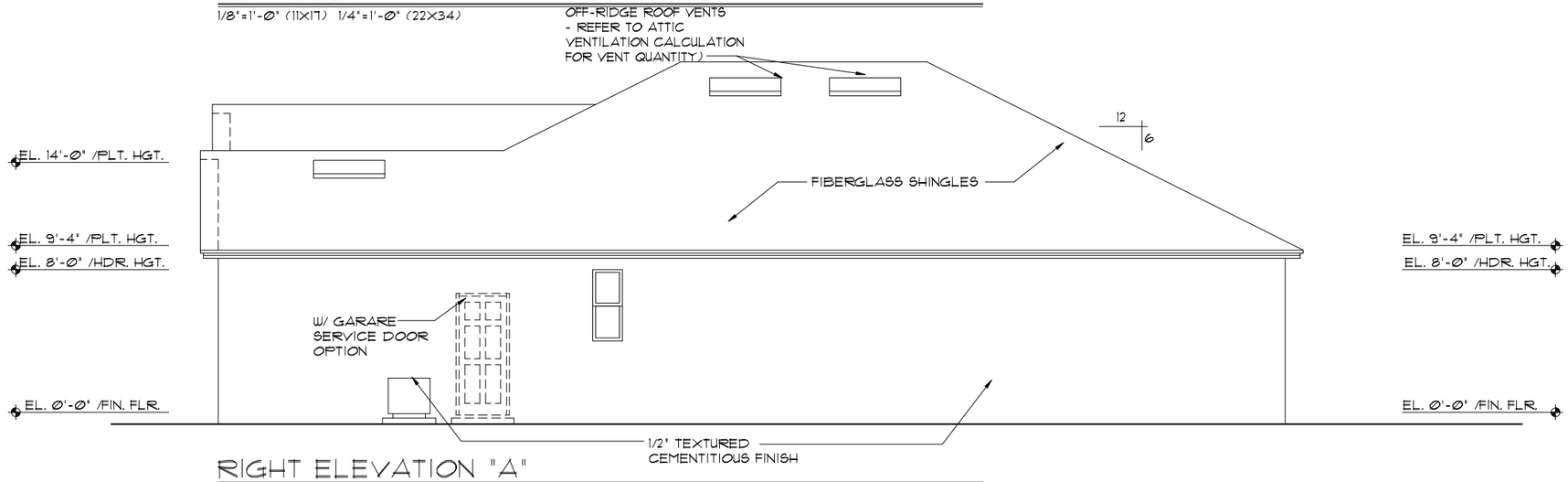


RIGHT ELEVATION "A"

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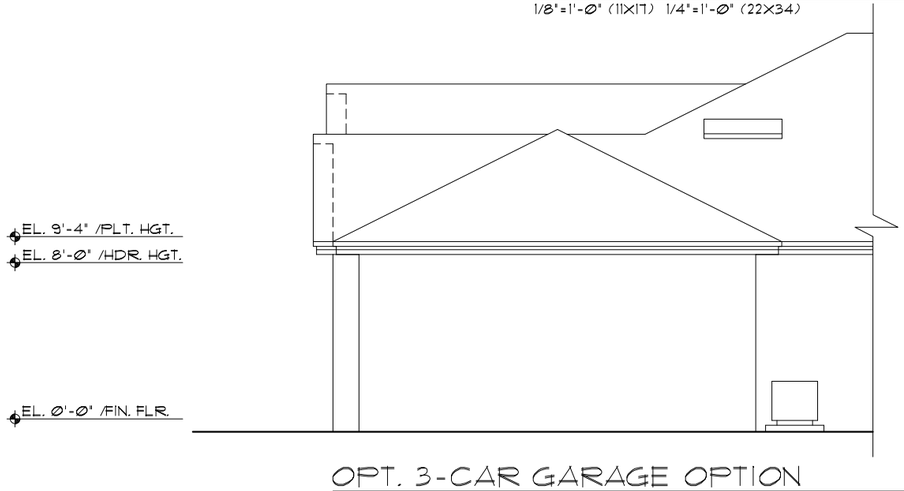


OPT. 3-CAR GARAGE OPTION

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Park Square HOMES

EXTERIOR ELEVATION
LEFT AND RIGHT

1821

THE WALTON IV

| | |
|---|---|
| DATE | 04-04-12 |
| SCALE | AS NOTED |
| DRAWN | RDC |
| JOB | 1821 |
| SHEET | 05A |
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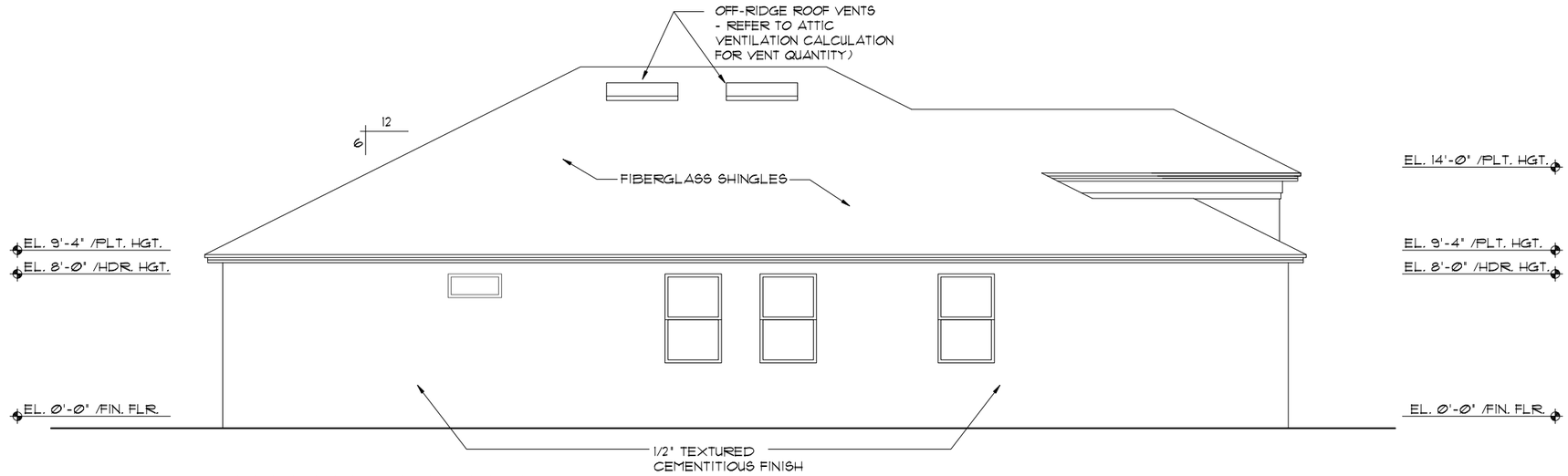


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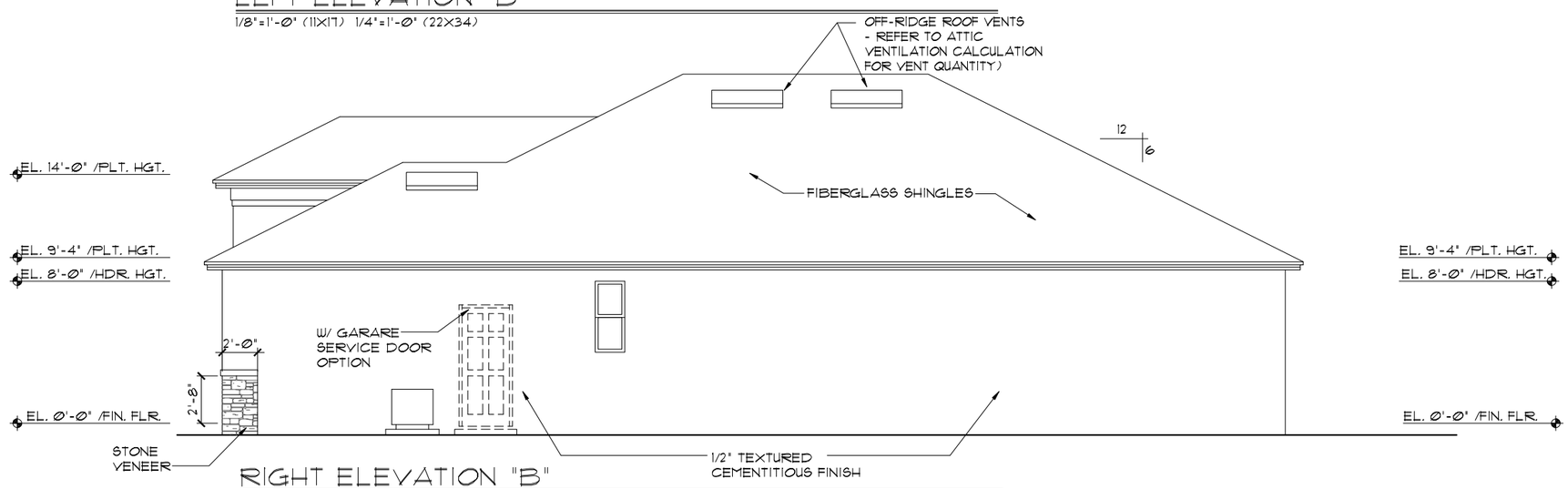


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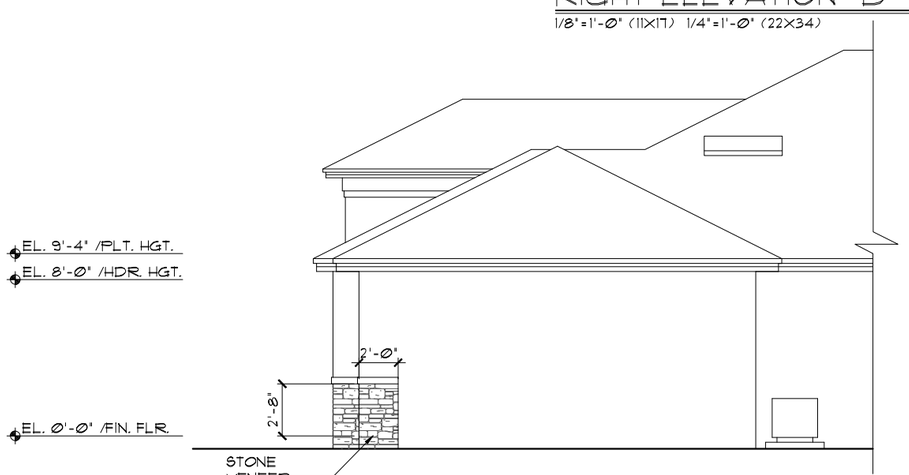


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Park Square HOMES

EXTERIOR ELEVATION
LEFT AND RIGHT

1821

THE WALTON IV

| | |
|---|---|
| DATE | 04-04-12 |
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| DRAWN | RDC |
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| SHEET | 05B |
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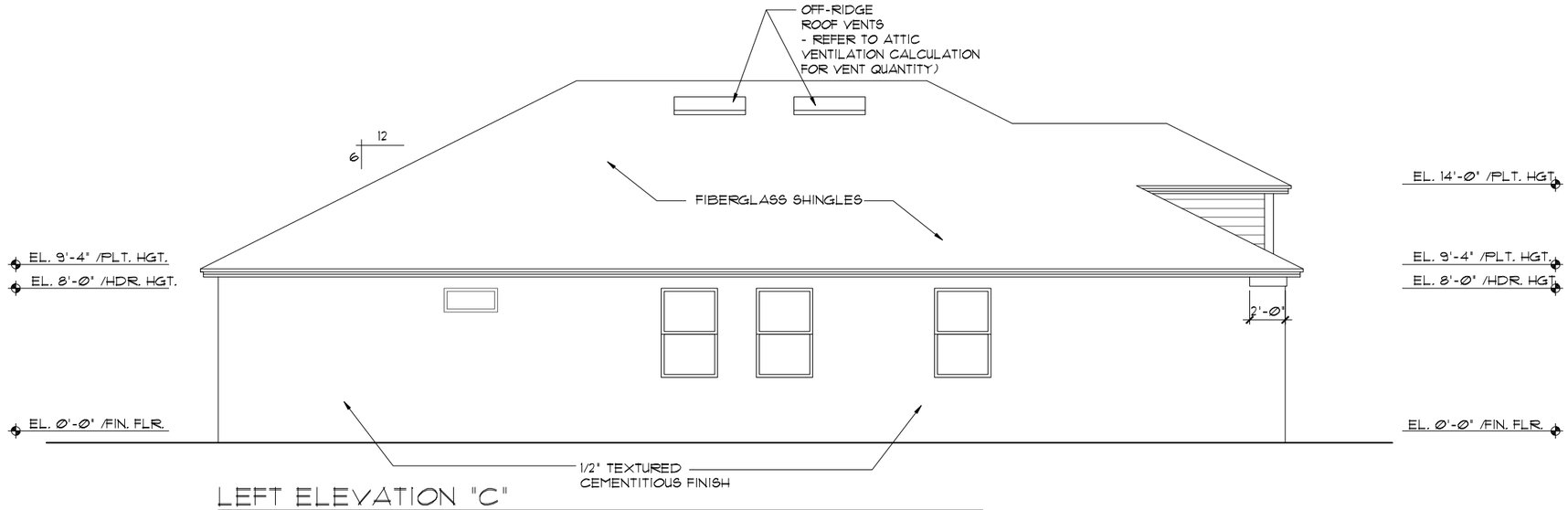
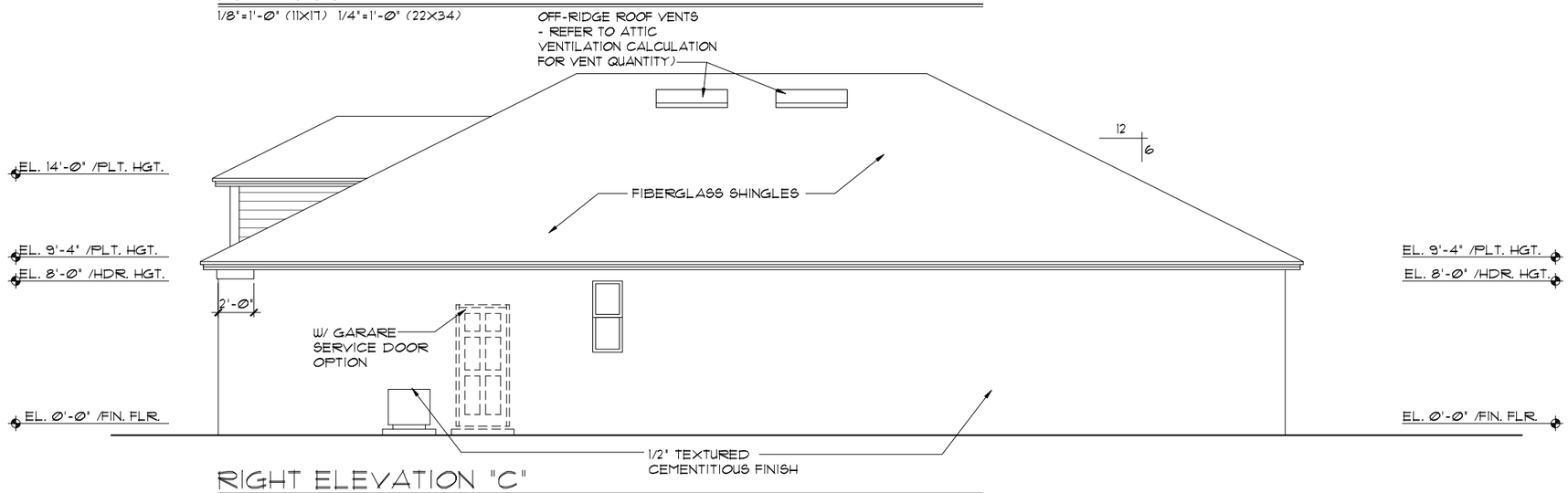
4. WATER RESISTANT BARRIER TO BE INSTALLED IAW R703.7.3 OF THE 7TH EDITION, FBCR. 2020
5. "ZIP SYSTEMS" WALL SHEATHING MAY BE USED AS AN ALTERNATIVE FOR WALL SHEATHING AND VAPOR BARRIER, ON EXTERIOR WALLS.



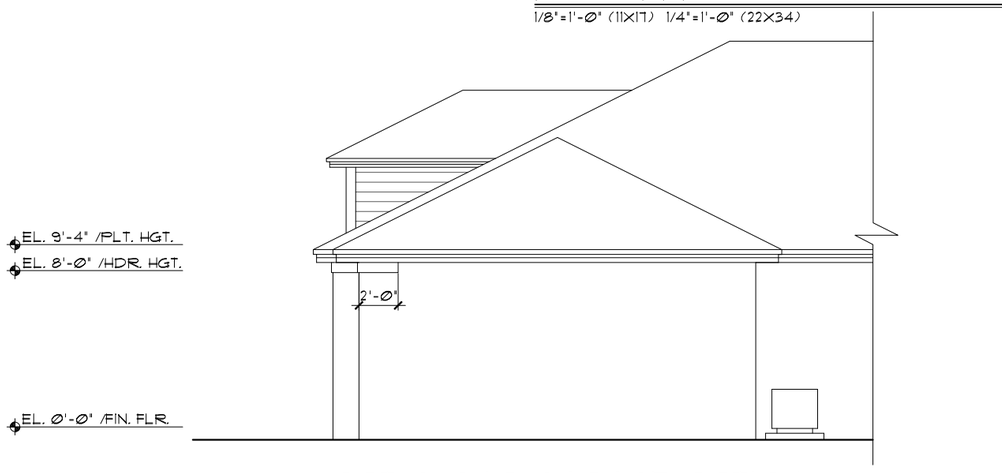

LEFT ELEVATION "C"

1/8"=1'-0" (11X17) 1/4"=1'-0" (22X34)




RIGHT ELEVATION "C"

1/8"=1'-0" (11X17) 1/4"=1'-0" (22X34)




OPT. 3-CAR GARAGE OPTION

1/8"=1'-0" (11X17) 1/4"=1'-0" (22X34)

THIS STRUCTURE IS DESIGNED TO WITHSTAND 150 MPH WINDS PER THE 7th EDITION, 2020 OF THE FLORIDA BUILDING CODE RESIDENTIAL AND IS CERTIFIED AS SUCH

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|---|---|
| 05-16-19 | JF |

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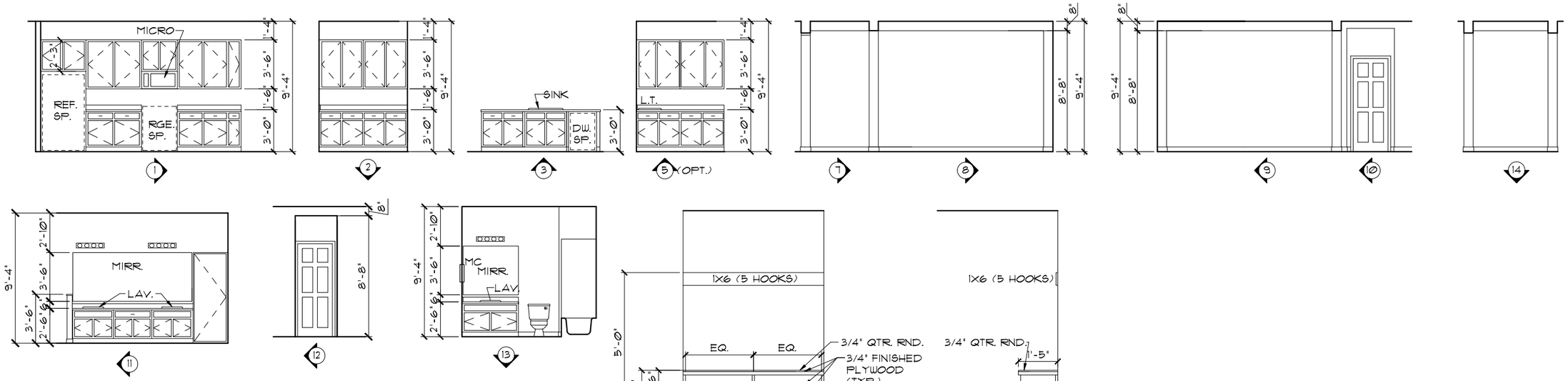
Park Square HOMES

EXTERIOR ELEVATION
LEFT AND RIGHT

1821

THE WALTON IV

| | |
|---|---|
| DATE | 04-04-12 |
| SCALE | AS NOTED |
| DRAWN | RDC |
| JOB | 1821 |
| SHEET | 05C |
| OF | SHEETS |

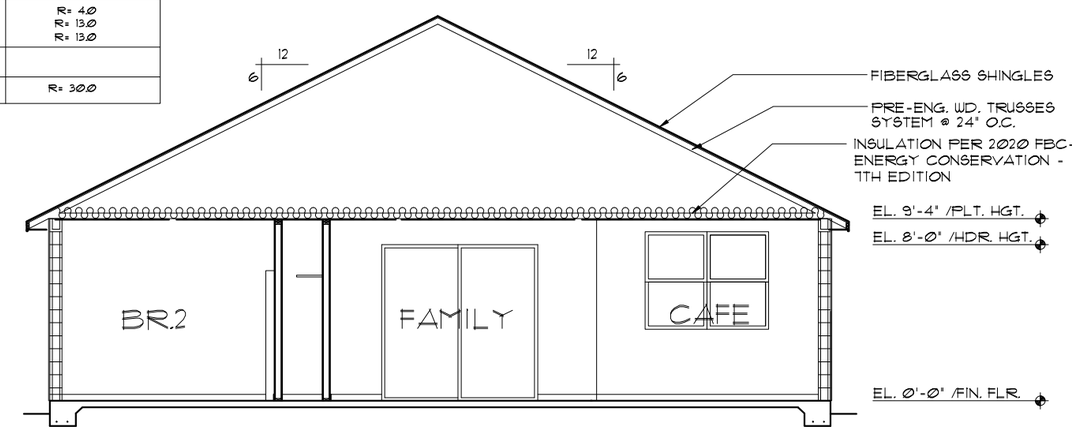



## INTERIOR ELEVATIONS

1/8"=1'-0" (11X17) 1/4"=1'-0" (22X34)

NOTE: INTERIOR ELEVATIONS ARE CONCEPTUAL ONLY.
SEE CABINET SHOP DRAWINGS FOR FINAL VERIFICATION.

| INSULATION INFORMATION- FBC- ENERGY R402, TABLE R402.1.2 | |
|---|---|
| WALL TYPES | INSULATION |
| 1. CONCRETE BLOCK - INT INSULATION, EXTERIOR<br>2. FRAME- WOOD EXTERIOR<br>3. FRAME -WOOD, ADJACENT | R= 4.0<br>R= 13.0<br>R= 13.0 |
| CEILING TYPES | |
| 1. UNDER ATTIC (VENTED) | R= 30.0 |




## CROSS SECTION

A/6

1/8"=1'-0" (11X17) 1/4"=1'-0" (22X34)

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INTERIOR ELEVATIONS/ CROSS SECTION

1821

THE WALTON IV

| | |
|---|---|
| DATE | 04-04-12 |
| SCALE | AS NOTED |
| DRAWN | RDC |
| JOB | 1821 |
| SHEET | 06 |
| OF | SHEETS |


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# MECHANICAL/GENERAL NOTES

PER 7TH ED. 2020 FLA BLD. CODE-RESIDENTIAL

1.) COMPLETE DUCT DESIGN W/ SIZES & R-VALUE COMPLYING W/ THE FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION 610.1 ABC.1

2.)APPLIANCES SHALL BE ACESSIBLE FOR INSPECTION, SERVICE, REPAIR AND REPLACEMENT WITHOUT REMOVING PERMANENT CONSTRUCTION.
A) CHAPTER 13 OF THE FBC-R 2020 7TH SECTION M1305.1

3.) AIR CONDITIONING SYSTEM SHALL BE COMPLETELY BALANCED. ALL ROOMS ISOLATED FROM THE RETURN AIR SHALL BE PROVIDED WITH MEANS TO COMPLY WITH SECTION M1602 OF THE FBCR CODE 2020 7TH EDITION.

4.) IAW NEC 2017- 210.12-ALL 15A OR 20A, 120V BRANCH CIRCUITS SUPPLYING OUTLETS OR DEVICES IN THE FOLLOWING LOCATIONS REQUIRE AFCI PROTECTION- KITCHEN, FAMILY RMS, DINING RMS, LIVING RMS, PARLORS, LIBRARIES, BEDROOMS, DENS, CLOSETS, SUNROOMS, RECREATION RMS, HALLWAYS OR SIMILAR AREAS SHALL BE PROTECTED BY A LISTED AFCI DEVICE OF THE COMBINATION TYPE.

5.) IAW NEC 2017- 406.12, ALL 15A AND 20A, 125V RECEPTACLES SHALL BE LISTED AS TAMPER RESISTANT.
6.) ALL OUTLETS IN BATHROOMS AND LAUNDRY ROOM SHALL BE GFCI

7.) SMOKE ALARMS SHALL BE IN ALL SLEEPING AREAS, SHALL BE INTERCONNECTED, SHALL BE WITHIN 1' TO 3' OF PEAK & SHALL BE 3' FROM THE SUPPLY OR RETURN AIR- STREAM & EQUIPPED W/ A BATTERY BACKUP. ALARMS MAY NOT BE CONNECTED WHERE ALARMS ARE WIRELESS & ALL ALARMS SOUND UPON ACTIVATION IAW FBCR R314.3 & R314.4. MODEL# TO BE USED ON THIS JOB TO BE:
**BRK: SMOKE-9120B, C/O- SC9120B**
**KIDDE: SMOKE-21007581, C/O 21006377-N**

8.) ALL WATER HEATERS HAVING AN IGNITION SOURCE TO BE ELEVATED SUCH THAT THE SOURCE OF IGNITION IS MINIMUM 18" ABOVE GARAGE FLOOR UNLESS WATER HEATER IS LISTED AS FLAMMABLE VAPOR IGNITION RESISTANT. IAW FBCR 2020, 7TH ED. P2801.7

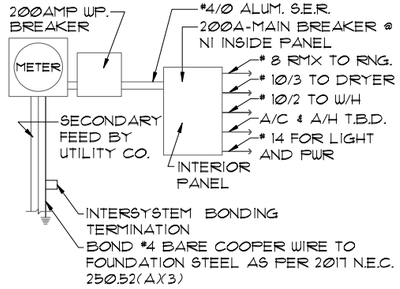
9.) ALL EQUIPMENT & APPLIANCES, INCLUDING WATER HEATERS HAVING AN IGNITION SOURCE TO BE ELEVATED SUCH THAT THE SOURCE OF IGNITION IS MINIMUM 18" ABOVE GARAGE FLOOR UNLESS IT IS LISTED AS FLAMMABLE VAPOR IGNITION RESISTANT. IAW FBCR 2020, 7TH ED.

10.)THE MAXIMUM ALLOWABLE EXHAUST DUCT LENGTH SHALL BE DETERMINED BY ONE OF THE METHODS SPECIFIED IN SECTIONS M1502.4.5.1 THROUGH M1502.4.5.3

11.) ALL ELECTRICAL WORK TO BE DONE PER NFPA70-**NEC 2017**

12.) ADDITIONAL ELECTRODE MAY BE REQUIRED IN ACCORDANCE WITH NEC 250.53(A)(2)

12.) ALL DWELLING UNIT RECEPTACLE WILL BE IN ACCORDANCE WITH NFPA70-NEC2017 - ARTICLE 210-52




## ELECTRICAL RISER DIAGRAM

N.T.S.

NOTE:
ELECTRICAL MATERIALS AND INSTALLATIONS SHALL COMPLY W/ APPLICABLE PROVISIONS OF THE NATIONAL ELEC. CODE 250.52(A)(1) TO (6), LOCAL CODES, AND THE LOCAL POWER COMPANY.

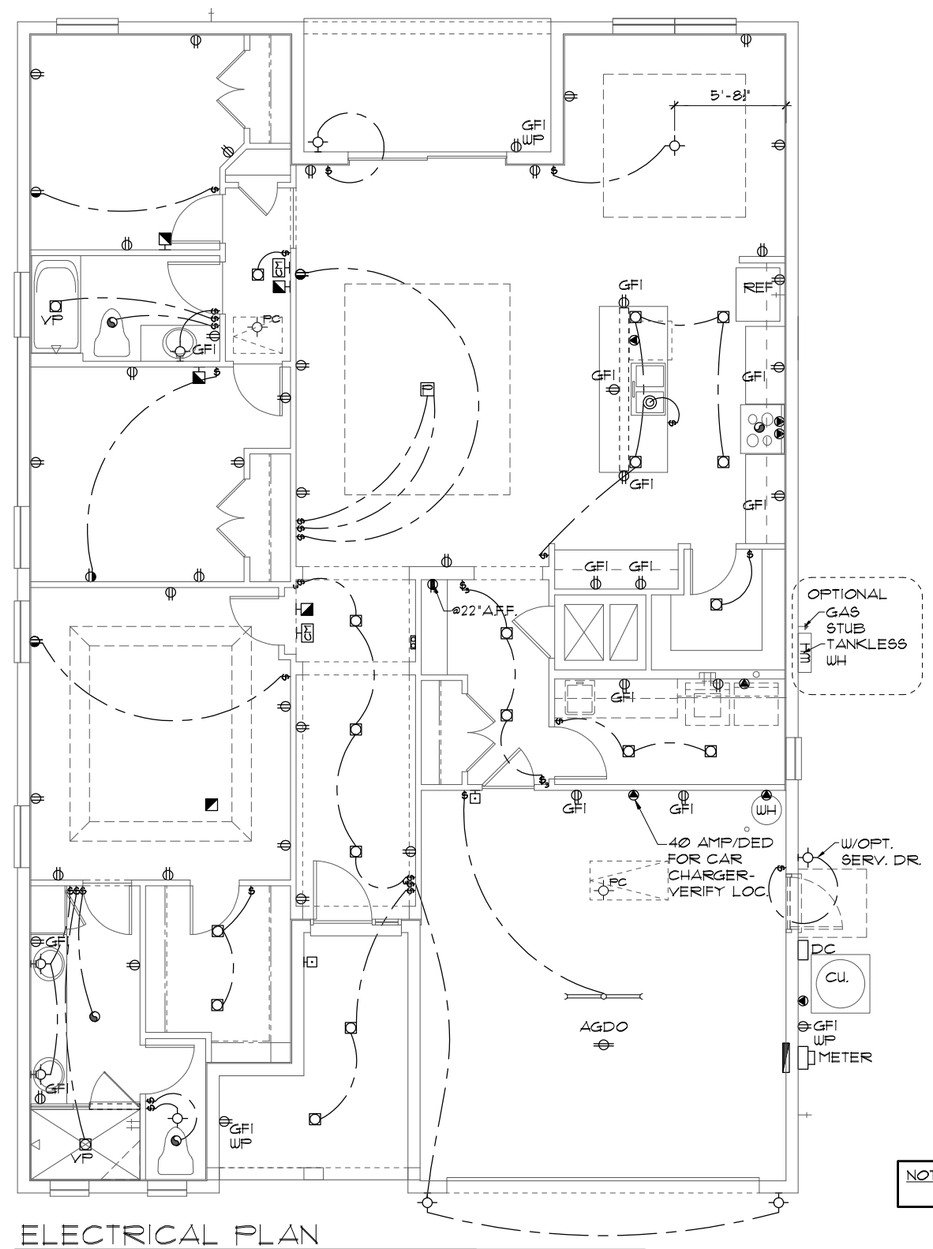
250.52(A)(3) Concrete-Encased Electrode.
Concrete-encased electrodes can be horizontal or vertical and must be at least 20 ft. long.

Concrete-encased electrodes can be horizontal or vertical and must be at least 20 ft. long.

There are two types of concrete-encased electrodes: (1) steel reinforcing bars or rods which are not less than ½ inch in diameter and at least 20 ft. long, encased in 2 inches of concrete± (2) 20 ft. of bare copper conductor not smaller than No. 4 AWG encased in 2 inches of concrete.

The steel reinforcing rods must be in a location that is in direct contact with the earth. The reinforcing rods can be connected with tie wires, and a single length of rod can be used as the concrete-encased electrode. The reinforcing rods cannot be coated with non-conductive material.

Section 250.50 requires a concrete-encased electrode to be connected to the grounding electrode system if it is present. Several states have modified this requirement to say a concrete-encased electrode must be used as a grounding electrode only if it is available. In those jurisdictions, if the footings or foundations have been poured before the electrical contractor arrives at the site, and a reinforcing rod is not available for use as a grounding electrode, then a grounding connection to the reinforcing rod is not required.




## ELECTRICAL PLAN

1/8"=1'-0" (11X17) 1/4"=1'-0" (22X34)

NOTE: SEE FINAL COLOR SHEET FOR TV, FANS & PHONE LOCATIONS

## ELECTRICAL LEGEND

| | | | |
|---|---|---|---|
| | SINGLE POLE SWITCH | | OUTLET, TV/CABLE |
| | THREE WAY SWITCH | | OUTLET, PHONE |
| | OUTLET 110-115 | | INTERCOM |
| | OUT. 110-115, SPLIT WIRED | | CHIMES |
| | OUT. 110-115, W/ USB | | SMOKE DETECTOR/SMOKE ALARM W/INTEGRATED SOUNDER BASE |
| | OUT. 110-115, CLG. MOUNT. | CM | CARBON MONOXIDE |
| | OUT. 110-115, FLR. MOUNT. | | PUSH BUTTON |
| | SPCL. PURPOSE 220-240 | | EXHAUST FAN |
| | LIGHT FIXT., CLG. MTD. | | EX. FAN/LIGHT COMBO |
| | LIGHT FIXT., WALL MTD. | | DISPOSAL |
| | LED LIGHT FIXT., RECESSED | | ELECTRICAL PANEL |
| | LIGHT FIXT., REC. ADJUST. | | CEILING FAN, PREWIRE |
| PC | LIGHT FIXT., PULL CHAIN | | CEILING FAN, INSTALL |
| | LED LIGHT FIXT,FLUORESCENT | | ELECT. JUNCTION BOX |
| | LIGHT FIXT., EXT. FLOODS | | THERMOSTAT |
| EXIT | LIGHT FIXT., EMERG. EXIT | DC | DISCONNECT SWITCH |
| | LIGHT FIXT., EXIT/BACKUP | | ELEC. POWER METER |

THIS STRUCTURE IS DESIGNED TO WITHSTAND 150 MPH WINDS PER THE 7th EDITION, 2020 OF THE FLORIDA BUILDING CODE RESIDENTIAL AND IS CERTIFIED AS SUCH

FLORIDA SERIES

| REVISIONS | BY |
|---|---|
| 05-16-19 | JF |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Phone: (407) 529 - 3000


Park Square HOMES

# FIRST FLOOR ELECTRICAL PLAN

1821

THE WALTON IV

| | |
|---|---|
| DATE | 04-04-12 |
| SCALE | AS NOTED |
| DRAWN | RDC |
| JOB | 1821 |
| SHEET | 07 |
| OF | SHEETS |


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## ATTIC VENTILATION CALCULATIONS

PER FBC2020 7TH EDITION R806: MIN. 40% - MAX. 50% OF REQUIRED VENTILATION TO BE IN UPPER PORTION OF ATTIC SPACE AND THE BALANCE TO BE IN LOWER PORTION (EAVES).

THE MINIMUM NET VENTILATION AREA SHALL BE 1/300 OF VENTED SPACE:

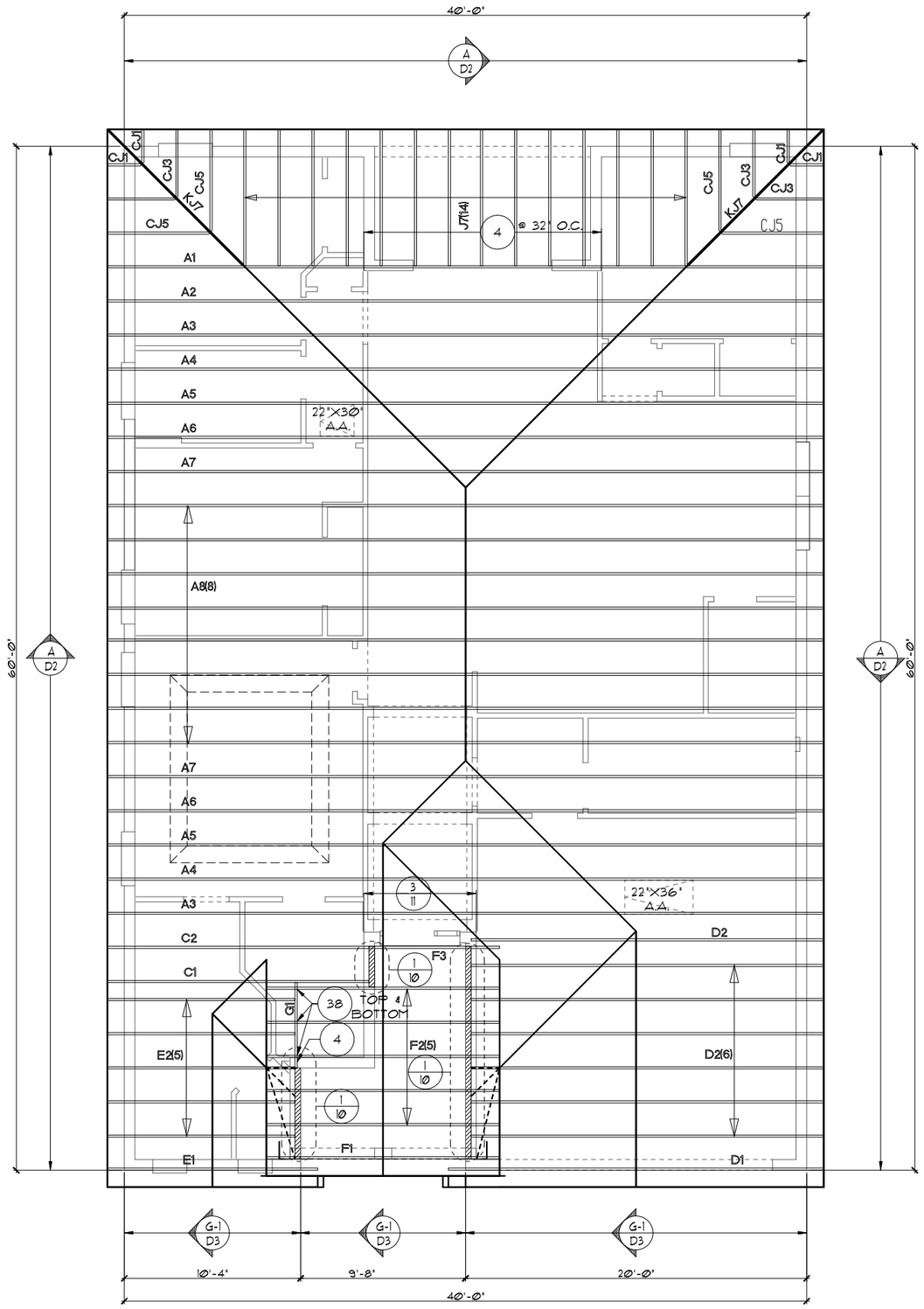
TOTAL VENTED SPACE: 2394S.F. / 300 = 7.98S.F. NET FREE VENT. REQUIRED

UPPER PORTION VENTILATION TOTAL:------- 3.19S.F.
PROVIDED W/OFF RIDGE VENTS: 4 VENTS @ .798S.F. /VENT.
(VENT TYPE: LOMANCO MODEL 770-D OR MILLENNIUM METAL)
LOWER PORTION VENTILATION TOTAL:------- 6.96S.F.
PROVIDED W/ VENTILATED SOFFITS @ EAVE:--
( 80L.F. @ 0.087S.F. VENTING PER L.F.)

UPPER PORTION PERCENTAGE: 40%
LOWER PORTION PERCENTAGE: 60%

## NOTES

1. TYPICAL ROOF GABLE OVERHANG TO BE 12" UNLESS OTHERWISE NOTED.
2. TYPICAL ROOF EAVES OVERHANG TO BE 12" UNLESS OTHERWISE NOTED.
3. PROVIDE AND INSTALL FLASHING AND ROOFING AS PER NATIONAL ROOFING AND SHEET METAL ASSOC. STANDARDS AND/ OR ACCEPTABLE INDUSTRY PRACTICE AND IN ACCORDANCE WITH THE 7TH EDITION (2020) FLORIDA RESIDENTIAL CODE.
4. ALL ROOF TRUSSES, GIRDERS, BEAMS, HEADERS, ETC. TO BE SIZED BY TRUSS MANUFACTURER OR FL. REG. ENG.
5. TRUSSES SHALL BE BRACED TO PREVENT ROTATION & PROVIDE LATERAL STABILITY IN ACCORDANCE WITH THE REQUIREMENTS SPECIFIED IN THE CONSTRUCTION DOCUMENTS FOR BUILDING & ON THE INDIVIDUAL TRUSS DESIGN DRAWINGS. IN THE ABSENCE OF SPECIFIC BRACING REQUIREMENTS, TRUSSES SHALL BE BRACED IN ACCORDANCE WITH TPI/WTCA BCSI 1.
6. REFER TO TRUSS MANUFACTURER'S DRAWINGS FOR TRUSS PLACEMENT & TRUSS TO TRUSS CONNECTIONS.
7. SHINGLE ROOF: UNDERLAYMENT TO BE INSTALLED IAW FBCR 2020, 7TH EDITION R905.1.1 - Underlayment materials required to comply with ASTM D226, D4869 ot Type IV shall bear a label indicating compliance to the standard designation and, if applicable, type classification indicated in Table R905.1.1. Underlayment shall be applied and attached in accordance with Table R905.1.1.
8. OFF RIDGE VENTS MAXIMUN OPENING SIZES :
   - LOMANCO : (2) 9 1/" DIA. CIRCLES
   - MILLENIUM METAL : 2 1/2" X 46" HOLE
9. ROOF UNDERLAYMENT TO BE USED IS 2 LAYERS OF 30 LBS. SYNTHETIC FELT OR ANY OTHER METHOD LISTED PER FBC R905.1.1.1




TRUSS LAYOUT "A"

1/8"=1'-0" (11X17) 1/4"=1'-0" (22X34)

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|---|---|
| 05-16-19 | JF |

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Phone: (407) 529 - 3000

Park Square HOMES

FIRST FLOOR TRUSS LAYOUT

1821

THE WALTON IV

| | |
|---|---|
| DATE | 04-04-12 |
| SCALE | AS NOTED |
| DRAWN | RDC |
| JOB | 1821 |
| SHEET | 08A |
| OF | SHEETS |

## ATTIC VENTILATION CALCULATIONS

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(VENT TYPE: LOMANCO MODEL 770-D OR MILLENNIUM METAL)
LOWER PORTION VENTILATION TOTAL:------- 6.96S.F.
PROVIDED W/ VENTILATED SOFFITS @ EAVE:--
( 80L.F. @ 0.087S.F. VENTING PER L.F.)

UPPER PORTION PERCENTAGE: 40%
LOWER PORTION PERCENTAGE: 60%

## NOTES

1. TYPICAL ROOF GABLE OVERHANG TO BE 12" UNLESS OTHERWISE NOTED.
2. TYPICAL ROOF EAVES OVERHANG TO BE 12" UNLESS OTHERWISE NOTED.
3. PROVIDE AND INSTALL FLASHING AND ROOFING AS PER NATIONAL ROOFING AND SHEET METAL ASSOC. STANDARDS AND/ OR ACCEPTABLE INDUSTRY PRACTICE AND IN ACCORDANCE WITH THE 7TH EDITION (2020) FLORIDA RESIDENTIAL CODE.
4. ALL ROOF TRUSSES, GIRDERS, BEAMS, HEADERS, ETC. TO BE SIZED BY TRUSS MANUFACTURER OR FL. REG. ENG.
5. TRUSSES SHALL BE BRACED TO PREVENT ROTATION & PROVIDE LATERAL STABILITY IN ACCORDANCE WITH THE REQUIREMENTS SPECIFIED IN THE CONSTRUCTION DOCUMENTS FOR BUILDING & ON THE INDIVIDUAL TRUSS DESIGN DRAWINGS. IN THE ABSENCE OF SPECIFIC BRACING REQUIREMENTS, TRUSSES SHALL BE BRACED IN ACCORDANCE WITH TPI/WTCA BCSI 1.
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7. SHINGLE ROOF: UNDERLAYMENT TO BE INSTALLED IAW FBCR 2020, 7TH EDITION R905.1.1 - Underlayment materials required to comply with ASTM D226, D4869 ot Type IV shall bear a label indicating compliance to the standard designation and, if applicable, type classification indicated in Table R905.1.1. Underlayment shall be applied and attached in accordance with Table R905.1.1.
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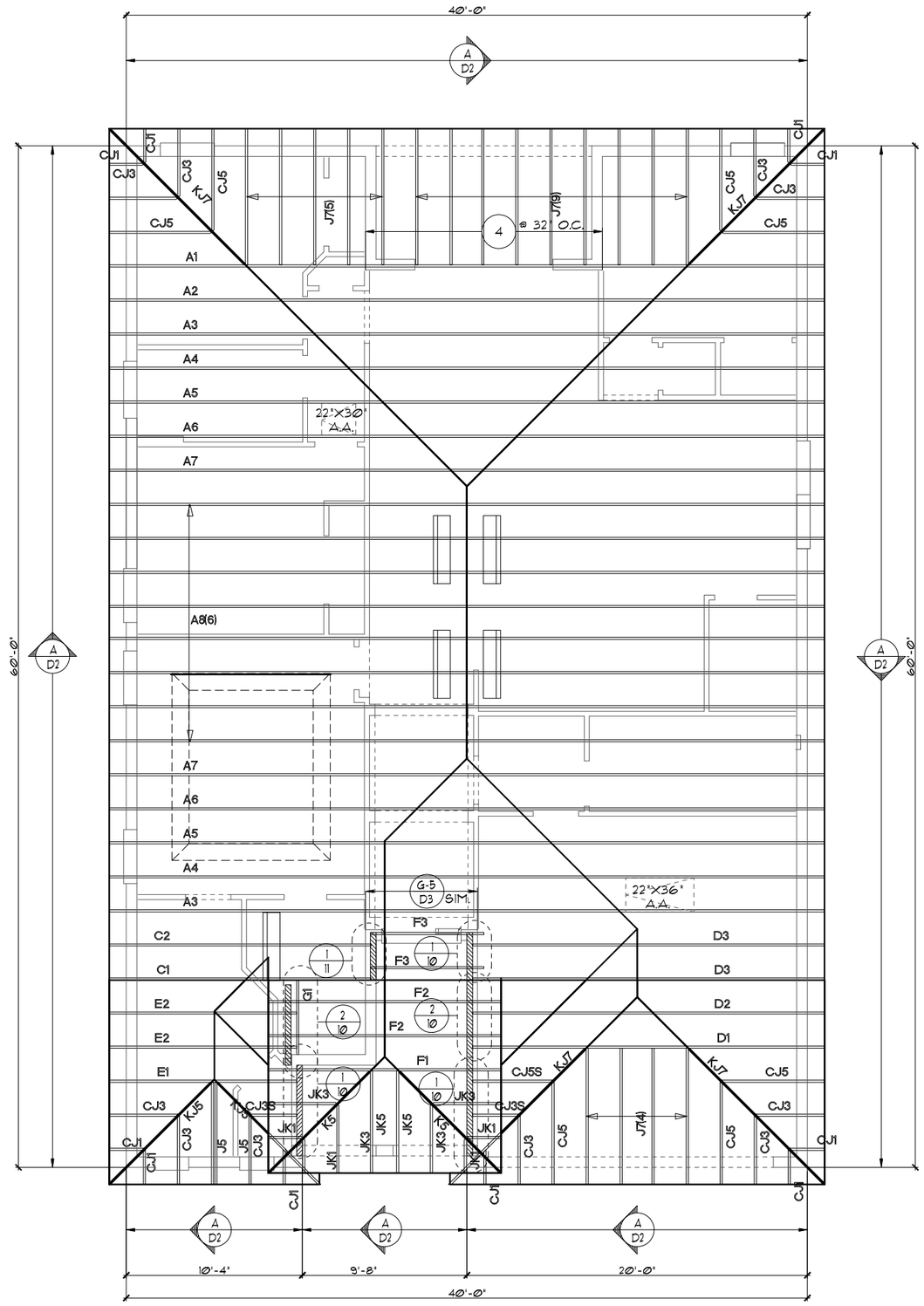


TRUSS LAYOUT "B"

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Park Square HOMES

FIRST FLOOR TRUSS LAYOUT

1821

THE WALTON IV

| | |
|---|---|
| DATE | 04-04-12 |
| SCALE | AS NOTED |
| DRAWN | RDC |
| JOB | 1821 |
| SHEET | 08B |
| OF | SHEETS |

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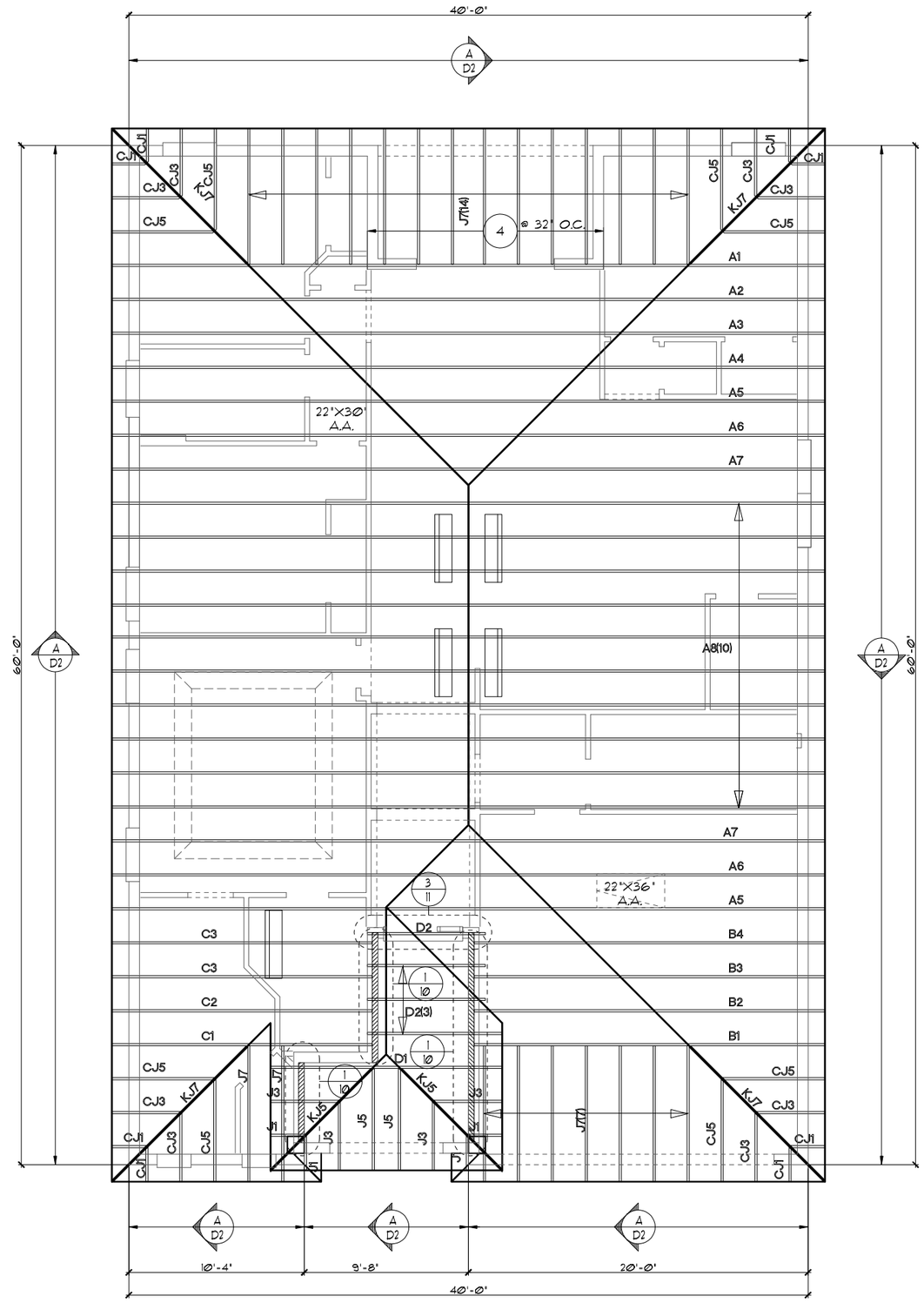


TRUSS LAYOUT "C"

1/8"=1'-0" (11X17) 1/4"=1'-0" (22X34)

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Park Square HOMES

FIRST FLOOR TRUSS LAYOUT

1821

THE WALTON IV


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| | |
|---|---|
| DATE | 04-04-12 |
| SCALE | AS NOTED |
| DRAWN | RDC |
| JOB | 1821 |
| SHEET | 08C |
| OF | SHEETS |

# SAFE LOAD TABLES

## FOR GRAVITY, UPLIFT & LATERAL LOADS

### 8" PRECAST & PRESTRESSED U-LINTELS

**GRAVITY**

| LENGTH \ TYPE | 8U8 | 8F8-0B | 8F12-0B | 8F16-0B | 8F20-0B | 8F24-0B | 8F28-0B | 8F32-0B |
|---|---|---|---|---|---|---|---|---|
| | | 8F8-1B | 8F12-1B | 8F16-1B | 8F20-1B | 8F24-1B | 8F28-1B | 8F32-1B |
| 2'-10" (34") PRECAST | 2302 | 3166 | 4473 | 6039 | 7526 | 9004 | 10472 | 11936 |
| | | 3166 | 4473 | 6039 | 7526 | 9004 | 10472 | 11936 |
| 3'-6" (42") PRECAST | 2302 | 3138 | 3377 | 4688 | 6001 | 7315 | 8630 | 9947 |
| | | 3166 | 4473 | 6039 | 7526 | 9004 | 10472 | 11936 |
| 4'-0" (48") PRECAST | 2029 | 2329 | 2496 | 3467 | 4438 | 5410 | 6384 | 7358 |
| | | 2646 | 4473 | 6039 | 7526 | 9004 | 10472 | 11936 |
| 4'-6" (54") PRECAST | 1651 | 1787 | 1913 | 2657 | 3403 | 4149 | 4896 | 5644 |
| | | 2170 | 4027 | 6039 | 7526 | 9004 | 10472 | 9668 |
| 5'-4" (64") PRECAST | 1184 | 1223 | 1301 | 1809 | 2317 | 2826 | 3336 | 3846 |
| | | 1663 | 2889 | 5097 | 6056 | 5400 | 6424 | 7450 |
| 5'-10" (70") PRECAST | 972 | 1000 | 1059 | 1474 | 1889 | 2304 | 2721 | 3137 |
| | | 1459 | 2464 | 4144 | 5458 | 4437 | 5280 | 6122 |
| 6'-6" (78") PRECAST | 937 | 1255 | 2101 | 3263 | 2746 | 3358 | 3971 | 4585 |
| | | 1255 | 2101 | 3396 | 5260 | 7134 | 8999 | 6890 |
| 7'-6" (90") PRECAST | 767 | 1029 | 1675 | 2585 | 1994 | 2439 | 2886 | 3333 |
| | | 1029 | 1675 | 2610 | 3839 | 5596 | 6613 | 5047 |
| 9'-4" (112") PRECAST | 573 | 632 | 1049 | 1469 | 1210 | 1482 | 1754 | 2027 |
| | | 768 | 1212 | 1818 | 2544 | 3469 | 4030 | 3127 |
| 10'-6"(126") PRECAST | 456 | 482 | 802 | 1125 | 915 | 1122 | 1328 | 1535 |
| | | 658 | 1075 | 1514 | 2081 | 2774 | 3130 | 2404 |
| 11'-4" (136") PRECAST | 445 | 598 | 935 | 1365 | 1864 | 2355 | 1793 | 2075 |
| | | 598 | 935 | 1365 | 1864 | 2441 | 3155 | 4044 |
| 12'-0" (144") PRECAST | 414 | 545 | 864 | 1254 | 1693 | 2074 | 1510 | 1818 |
| | | 555 | 864 | 1254 | 1693 | 2211 | 2832 | 3590 |
| 13'-4" (160") PRECAST | 362 | 427 | 726 | 1028 | 1331 | 1635 | 1224 | 1418 |
| | | 485 | 748 | 1076 | 1438 | 1855 | 2343 | 2820 |
| 14'-0"(168") PRECAST | 338 | 381 | 648 | 918 | 1190 | 1462 | 1287 | 1260 |
| | | 459 | 700 | 1003 | 1335 | 1714 | 2153 | 2666 |
| 14'-8" (176") PRESTRESSED | N.R. | NR | NR | NR | NR | NR | NR | NR |
| | | 465 | 765 | 1370 | 2045 | 2610 | 3185 | 3765 |
| 15'-4" (184") PRESTRESSED | N.R. | NR | NR | NR | NR | NR | NR | NR |
| | | 420 | 695 | 1250 | 1855 | 2370 | 2890 | 3410 |
| 17'-4" (208")PRESTRESSED | N.R. | NR | NR | NR | NR | NR | NR | NR |
| | | 310 | 530 | 950 | 1400 | 1800 | 2200 | 2600 |
| 19'-4" (232") PRESTRESSED | N.R. | NR | NR | NR | NR | NR | NR | NR |
| | | 240 | 400 | 750 | 1090 | 1400 | 1720 | 2030 |
| 21'-4" (256")PRESTRESSED | N.R. | NR | NR | NR | NR | NR | NR | NR |
| | | 183 | 330 | 610 | 940 | 1340 | 1780 | 2110 |
| 22'-0"(264")PRESTRESSED | N.R. | NR | NR | NR | NR | NR | NR | NR |
| | | 160 | 300 | 570 | 870 | 1250 | 1660 | 1970 |
| 24'-0"(288")PRESTRESSED | N.R. | NR | NR | NR | NR | NR | NR | NR |
| | | 130 | 240 | 470 | 720 | 1030 | 1350 | 1610 |

### 8" PRECAST & PRESTRESSED U-LINTELS

**UPLIFT**

| LENGTH \ TYPE | 8F8-1T | 8F12-1T | 8F16-1T | 8F20-1T | 8F24-1T | 8F28-1T | 8F32-1T | LATERAL 8U8 | LATERAL 8F8 |
|---|---|---|---|---|---|---|---|---|---|
| | 8F8-2T | 8F12-2T | 8F16-2T | 8F20-2T | 8F24-2T | 8F28-2T | 8F32-2T | | |
| 2'-10" (34") PRECAST | 2727 | 2878 | 4101 | 5332 | 6569 | 7811 | 9055 | 2021 | 2021 |
| | 2727 | 2784 | 3981 | 5150 | 6401 | 7630 | 8851 | | |
| 3'-6" (42") PRECAST | 2165 | 2289 | 3260 | 4237 | 5219 | 6204 | 7192 | 1257 | 1257 |
| | 2165 | 2215 | 3165 | 4125 | 5091 | 6061 | 7036 | | |
| 4'-0" (48") PRECAST | 1878 | 1988 | 2832 | 3680 | 4532 | 5387 | 6245 | 938 | 938 |
| | 1878 | 1925 | 2750 | 3583 | 4422 | 5264 | 6110 | | |
| 4'-6" (54") PRECAST | 1660 | 1762 | 2507 | 3257 | 4010 | 4767 | 5525 | 727 | 727 |
| | 1660 | 1705 | 2435 | 3171 | 3913 | 4658 | 5406 | | |
| 5'-4" (64") PRECAST | 1393* | 1484 | 2110 | 2741 | 3375 | 4010 | 4648 | 505 | 505 |
| | 1393 | 1437 | 2050 | 2670 | 3293 | 3920 | 4549 | | |
| 5'-10" (70") PRECAST | 1272* | 1357 | 1930 | 2505 | 3084 | 3665 | 4247 | 418 | 418 |
| | 1272 | 1315 | 1875 | 2441 | 3010 | 3583 | 4157 | | |
| 6'-6" (78") PRECAST | 1141* | 1200 | 1733 | 2250 | 2769 | 3290 | 3812 | 707 | 887 |
| | 1141 | 1182 | 1684 | 2192 | 2703 | 3216 | 3732 | | |
| 7'-6" (90") PRECAST | 959* | 912 | 1475 | 1914 | 2354 | 2797 | 3240 | 591 | 657 |
| | 959 | 1029 | 1466 | 1907 | 2351 | 2797 | 3245 | | |
| 9'-4" (112") PRECAST | 801* | 612 | 980 | 1269 | 1560 | 1852 | 2144 | 454 | 630 |
| | 801 | 755 | 1192 | 1550 | 1910 | 2271 | 2634 | | |
| 10'-6"(126") PRECAST | 716* | 498 | 793 | 1027 | 1261 | 1496 | 1731 | 396 | 493 |
| | 716 | 611 | 1035 | 1389 | 1711 | 2034 | 2358 | | |
| 11'-4" (136") PRECAST | 666* | 439 | 696 | 893 | 1104 | 1309 | 1515 | 363 | 556 |
| | 666 | 535 | 909 | 1195 | 1595 | 1996 | 2398 | | |
| 12'-0" (144") PRECAST | 607* | 400 | 631 | 816 | 1001 | 1186 | 1372 | 340 | 494 |
| | 631 | 486 | 818 | 1209 | 1514 | 1799 | 2086 | | |
| 13'-4" (160") PRECAST | 500* | 340 | 532 | 686 | 841 | 997 | 1153 | 302 | 398 |
| | 573 | 409 | 682 | 1004 | 1367 | 1637 | 1897 | | |
| 14'-0"(168") PRECAST | 458* | 316 | 493 | 635 | 778 | 922 | 1065 | 286 | 360 |
| | 548 | 378 | 629 | 922 | 1254 | 1567 | 1816 | | |
| 14'-8" (176") PRESTRESSED | 243 | 295 | 459 | 591 | 724 | 857 | 990 | N.R. | 357 |
| | 243 | 352 | 582 | 852 | 1156 | 1491 | 1742 | | |
| 15'-4" (184") PRESTRESSED | 228 | 278 | 430 | 553 | 677 | 801 | 925 | N.R. | 327 |
| | 228 | 329 | 542 | 791 | 1072 | 1381 | 1616 | | |
| 17'-4" (208")PRESTRESSED | 188 | 236 | 361 | 464 | 567 | 670 | 774 | N.R. | 255 |
| | 188 | 276 | 449 | 649 | 874 | 1121 | 1389 | | |
| 19'-4" (232") PRESTRESSED | 165 | 207 | 313 | 401 | 490 | 578 | 667 | N.R. | 204 |
| | 165 | 239 | 383 | 550 | 736 | 940 | 1160 | | |
| 21'-4" (256")PRESTRESSED | 145 | 186 | 278 | 356 | 433 | 512 | 590 | N.R. | 172 |
| | 142 | 212 | 336 | 477 | 635 | 807 | 983 | | |
| 22'-0"(264")PRESTRESSED | 140 | 180 | 268 | 343 | 418 | 493 | 568 | N.R. | 161 |
| | 131 | 205 | 322 | 457 | 607 | 771 | 941 | | |
| 24'-0"(288")PRESTRESSED | 121 | 165 | 244 | 312 | 380 | 447 | 515 | N.R. | 135 |
| | 124 | 186 | 290 | 408 | 538 | 680 | 833 | | |

*REDUCE VALUE BY 29% FOR GRADE 40 FIELD REBAR

### 8" PRECAST W/ 2" RECESS DOOR U-LINTELS

**GRAVITY**

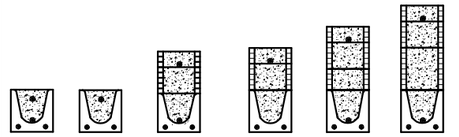
| LENGTH \ TYPE | 8RU6 | 8RF6-0B | 8RF10-0B | 8RF14-0B | 8RF18-0B | 8RF22-0B | 8RF26-0B | 8RF30-0B |
|---|---|---|---|---|---|---|---|---|
| | | 8RF6-1B | 8RF10-1B | 8RF14-1B | 8RF18-1B | 8RF22-1B | 8RF26-1B | 8RF30-1B |
| 4'-4" (52") PRECAST | 1489 | 1591 | 3053 | 2982 | 3954 | 4929 | 5904 | 6880 |
| | | 1827 | 3412 | 4982 | 6472 | 7947 | 9416 | 10878 |
| 4'-6" (54") PRECAST | 1357 | 1449 | 2782 | 2714 | 3600 | 4487 | 5375 | 6264 |
| | | 1662 | 3412 | 4982 | 6472 | 7947 | 9416 | 10878 |
| 5'-8" (68") PRECAST | 789 | 832 | 1602 | 1550 | 2058 | 2566 | 3075 | 3585 |
| | | 1153 | 2162 | 4074 | 6472 | 6516 | 5814 | 6839 |
| 5'-10" (70") PRECAST | 735 | 779 | 1500 | 1449 | 1924 | 2400 | 2876 | 3352 |
| | | 1103 | 2051 | 3811 | 6472 | 6516 | 5450 | 6411 |
| 6'-8" (80") PRECAST | 822 | 907 | 1677 | 2933 | 2576 | 3223 | 3872 | 4522 |
| | | 907 | 1677 | 2933 | 4100 | 6130 | 8171 | 6707 |
| 7'-6" (90") PRECAST | 669 | 761 | 1377 | 2292 | 1958 | 2481 | 2944 | 3439 |
| | | 764 | 1377 | 2329 | 3609 | 5492 | 6624 | 5132 |
| 9'-8" (116") PRECAST | 371 | 420 | 834 | 1253 | 1671 | 1342 | 1614 | 1886 |
| | | 535 | 928 | 1497 | 2179 | 2618 | 3595 | 2875 |

### 8" PRECAST W/ 2" RECESS DOOR U-LINTELS

**UPLIFT**

| LENGTH \ TYPE | 8RF6-1T | 8RF10-1T | 8RF14-1T | 8RF18-1T | 8RF22-1T | 8RF26-1T | 8RF30-1T | LATERAL 8RU6 | LATERAL 8RF6 |
|---|---|---|---|---|---|---|---|---|---|
| | 8RF6-2T | 8RF10-2T | 8RF14-2T | 8RF18-2T | 8RF22-2T | 8RF26-2T | 8RF30-2T | | |
| 4'-4" (52") PRECAST | 1244 | 1573 | 2413 | 3260 | 4112 | 4967 | 5825 | 932 | 932 |
| | 1244 | 1519 | 2339 | 3170 | 4008 | 4850 | 5696 | | |
| 4'-6" (54") PRECAST | 1192 | 1507 | 2311 | 3121 | 3937 | 4756 | 5577 | 853 | 853 |
| | 1192 | 1455 | 2240 | 3036 | 3837 | 4643 | 5453 | | |
| 5'-8" (68") PRECAST | 924* | 1172 | 1795 | 2423 | 3055 | 3689 | 4325 | 501 | 501 |
| | 924 | 1132 | 1741 | 2357 | 2978 | 3603 | 4230 | | |
| 5'-10" (70") PRECAST | 856* | 1138 | 1742 | 2352 | 2965 | 3581 | 4198 | 469 | 469 |
| | 856 | 1093 | 1680 | 2288 | 2891 | 3497 | 4106 | | |
| 6'-8" (80") PRECAST | 718 | 882 | 1513 | 2042 | 2573 | 3107 | 3642 | 830 | 1100 |
| | 718 | 956 | 1468 | 1987 | 2509 | 3035 | 3563 | | |
| 7'-6" (90") PRECAST | 688 | 697 | 1325 | 1810 | 2280 | 2753 | 3227 | 710 | 941 |
| | 688 | 849 | 1302 | 1762 | 2225 | 2690 | 3157 | | |
| 9'-8" (116") PRECAST | 533* | 433 | 808 | 1123 | 1413 | 1704 | 1995 | 516 | 614 |
| | 533 | 521 | 1000 | 1369 | 1728 | 2088 | 2450 | | |

*REDUCE VALUE BY 5% FOR GRADE 40 FIELD REBAR




## CAST CRETE / LOTT'S / WEKIWA LINTEL SCHEDULE

| LINTEL NO. | LENGTH | TYPE | COMMENTS |
|---|---|---|---|
| L 1 | 17'-4" | 8F32-1B/IT | GARAGE DOOR |
| L 2 | 3'-4" | 8F16-0B/IT | SH1/2 34 |
| L 3 | 7'-6" | 8F16-0B/IT | FR. SH25 |
| L 4 | 9'-4" | 8F16-0B/IT | 8/0X8/0 S.G.D. |
| L 5 | 14'-0" | 8F16-0B/IT | REAR LANAI |
| L 6 | 4'-6" | 8F16-0B/IT | SH25 |
| L 7 | 4'-6" | 8F16-0B/IT | SH25 |
| L 8 | 4'-6" | 8F16-0B/IT | SH25 |
| L 9 | 4'-6" | 8F16-0B/IT | SH25 |
| L 10 | 4'-6" | 8F16-0B/IT | SH25 |
| L 11 | 3'-4" | 8F16-0B/IT | 2/0 X 3/0 |
| L 12 | 3'-4" | 8F16-0B/IT | 2/0 X 3/0 |
| L 13 | 5'-10" | 8RF12-0B/IT | FRONT DOOR |
| L 14 | 11'-0" | 8F48-0B/IT | FRONT ENTRY ELEV. A |
| L 15 | 11'-0" | 8F36-0B/IT | FRONT ENTRY ELEV. B |
| L 16 | | | |
| L 17 | | | |
| L 18 | | | |
| L 19 | | | |
| L 20 | | | |
| L 21 | | | |
| L 22 | | | |
| L 23 | | | |
| L 24 | | | |
| L 25 | 9'-4" | 8F32-1B/IT | GARAGE DOOR |
| L 26 | 15'-8" | 8F16-1B/IT | GARAGE |
| L 27 | 4'-6" | 8RF28-0B/IT | OPT. GAR. SERVICE DOOR |
| L 28 | | | |
| L 29 | | | |
| L 30 | | | |
| L 31 | | | |
| L 32 | | | |
| L 33 | | | |
| L 34 | | | |
| L 35 | | | |
| L 36 | | | |
| L 37 | | | |
| L 38 | | | |
| L 39 | | | |

## MATERIALS

1. f'c precast lintels = 3500 psi.
2. f'c prestressed lintels = 6000 psi.
3. f'c grout = 3000 psi w/ maximum 3/8" aggregate.
4. Concrete masonry units (CMU) per ASTM C90 w/ minimum net area compressive strength = 1900 psi.
5. Rebar provided in precast lintel per ASTM A615 GR60. Field rebar per ASTM A615 GR40 or GR60.
6. Prestressing strand per ASTM A416 grade 270 low relaxation.
7. 1/32 wire per ASTM A510.
8. Mortar per ASTM C270 type M or S.

## GENERAL NOTES

1. Provide full mortar head and bed joints.
2. Store filled lintels as required.
3. Installation of lintel must comply with the architectural and/or structural drawings.
4. Lintels are manufactured with 9-1/2" long notches at the ends to accommodate vertical cell reinforcing and grouting.
5. All lintels meet or exceed L/360 vertical deflection, except lintels 17'-4" and longer with a nominal height of 8" meet or exceed L/180.
6. Bottom field added rebar to be located at the bottom of the lintel cavity.
7. 1/32" diameter wire stirrups are welded to the bottom steel for mechanical anchorage.
8. Cast-in-place concrete may be provided in composite lintel in lieu of concrete masonry units.
9. Safe load ratings based on rational design analysis per ACI 318 and ACI 530

## SAFE LOAD TABLE NOTES

1. All values based on minimum 4" bearing. Exception: Safe loads for unfilled lintels must be reduced by 20% if bearing length is less than 6-1/2". Safe loads for all recessed lintels based on 8" nominal bearing.
2. N.R. = Not Rated.
3. Safe loads are total superimposed allowable load on the section specified.
4. Safe loads based on grade 40 or grade 60 field rebar.
5. Additional lateral load capacity can be obtained by the designer by providing adidional reinforced masonry above the precast lintel.
6. One #7 rebar may be substituted for two #5 rebars in 8" lintels only.
7. The designer may evaluate concentrated loads from the safe load tables by calculating the max. resisting moment and shear at d-away from the face of support.
8. For composite lintel heights not shown, use safe load from next lower height.
9. All safe loads in units of pounds per linear foot.

## TYPE DESIGNATION

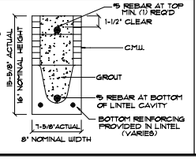
F = FILLED WITH GROUT / U = UNFILLED

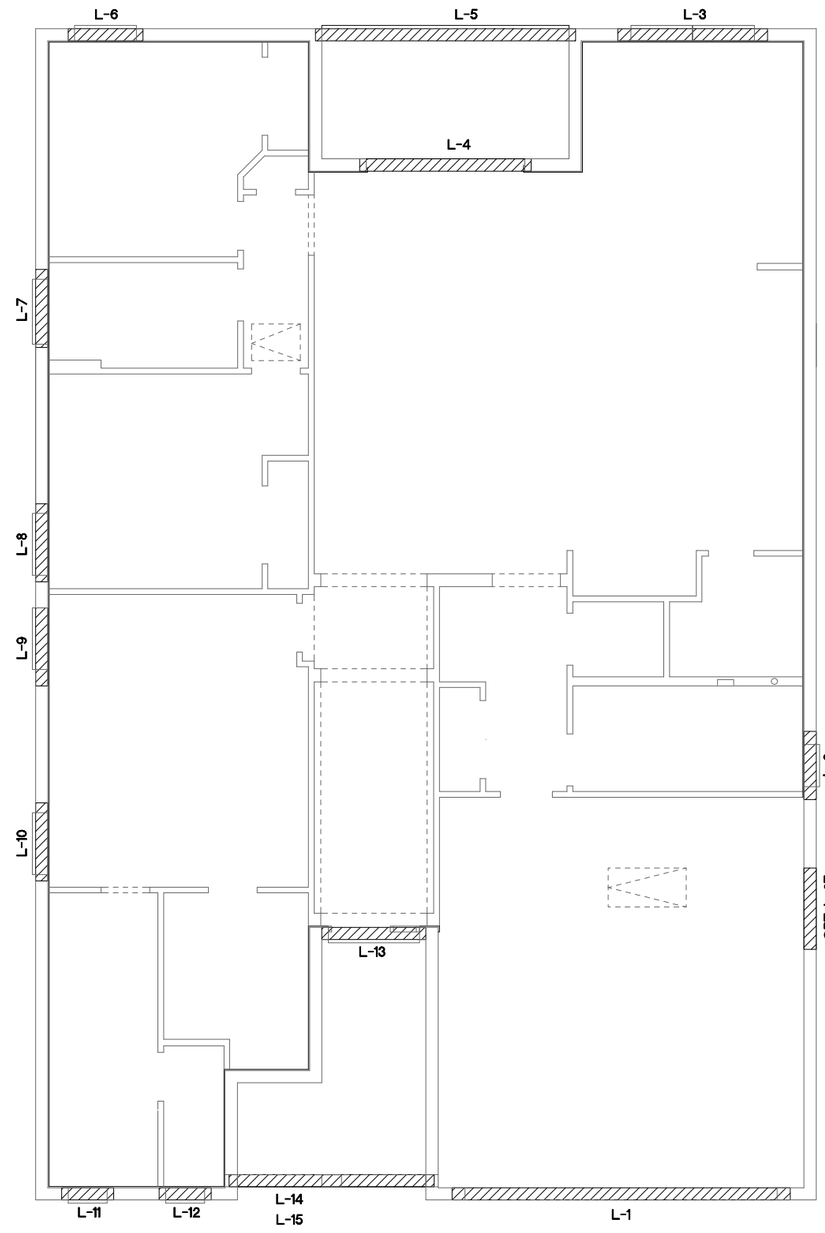
QUANTITY OF #5 REBAR AT BOTTOM OF LINTEL CAVITY

8F16 - 1B/IT

NOMINAL WIDTH
NOMINAL HEIGHT

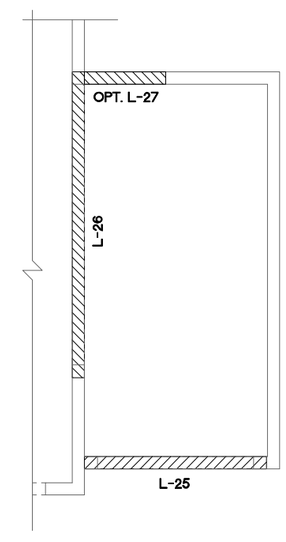
QUANTITY OF #5 REBAR AT TOP




PRE CAST LINTEL LAYOUT "A"&"B"

1/8"=1'-0" (11X17) 1/4"=1'-0" (22X34)




3-CAR GARAGE OPT.

1/8"=1'-0" (11X17) 1/4"=1'-0" (22X34)

THIS STRUCTURE IS DESIGNED TO WITHSTAND 150 MPH WINDS PER THE 7th EDITION, 2020 OF THE FLORIDA BUILDING CODE RESIDENTIAL AND IS CERTIFIED AS SUCH

FLORIDA SERIES

| REVISIONS | BY |
|---|---|
| 05-16-19 | JF |


Engineering By:
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MICHAEL A. THOMPSON
PE 47509
PHONE 407-721-2292

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5200 Vineland Road, Suite 200
Orlando, Florida 32811
Phone: (407) 529 - 3000

Park Square HOMES


PRE CAST LINTEL LAYOUT

1821

THE WALTON IV


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| | |
|---|---|
| DATE | 04-04-12 |
| SCALE | AS NOTED |
| DRAWN | RDC |
| JOB | 1821 |
| SHEET | 09AB |
| OF | SHEETS |

# SAFE LOAD TABLES

## FOR GRAVITY, UPLIFT & LATERAL LOADS

8" PRECAST & PRESTRESSED U-LINTELS

### GRAVITY

| LENGTH \ TYPE | 8U8 | 8F8-0B | 8F12-0B | 8F16-0B | 8F20-0B | 8F24-0B | 8F28-0B | 8F32-0B |
|---|---|---|---|---|---|---|---|---|
| | | 8F8-1B | 8F12-1B | 8F16-1B | 8F20-1B | 8F24-1B | 8F28-1B | 8F32-1B |
| 2'-10" (34") PRECAST | 2302 | 3166 | 4473 | 6039 | 7526 | 9004 | 10472 | 11936 |
| | | 3166 | 4473 | 6039 | 7526 | 9004 | 10472 | 11936 |
| 3'-6" (42") PRECAST | 2302 | 3138 | 3377 | 4689 | 6001 | 7315 | 8630 | 9947 |
| | | 3166 | 4473 | 6039 | 7526 | 9004 | 10472 | 11936 |
| 4'-0" (48") PRECAST | 2029 | 2329 | 2496 | 3467 | 4438 | 5410 | 6384 | 7358 |
| | | 2646 | 4473 | 6039 | 7526 | 9004 | 10472 | 11936 |
| 4'-6" (54") PRECAST | 1651 | 1787 | 1913 | 2657 | 3403 | 4149 | 4896 | 5644 |
| | | 2170 | 4027 | 6039 | 7526 | 9004 | 10472 | 9668 |
| 5'-4" (64") PRECAST | 1184 | 1223 | 1301 | 1809 | 2317 | 2826 | 3336 | 3846 |
| | | 1665 | 2889 | 5097 | 6056 | 5400 | 6424 | 7450 |
| 5'-10" (70") PRECAST | 972 | 1000 | 1059 | 1474 | 1889 | 2304 | 2721 | 3137 |
| | | 1459 | 2464 | 4144 | 5458 | 4437 | 5280 | 6122 |
| 6'-6" (78") PRECAST | 937 | 1255 | 2101 | 3263 | 2746 | 3358 | 3971 | 4585 |
| | | 1255 | 2101 | 3396 | 5260 | 7134 | 8999 | 6890 |
| 7'-6" (90") PRECAST | 767 | 1029 | 1675 | 2385 | 1994 | 2439 | 2886 | 3333 |
| | | 1029 | 1675 | 2610 | 3839 | 5996 | 6613 | 5047 |
| 9'-4" (112") PRECAST | 573 | 632 | 1049 | 1469 | 1210 | 1482 | 1754 | 2027 |
| | | 768 | 1212 | 1818 | 2544 | 3469 | 4030 | 3271 |
| 10'-6"(126") PRECAST | 456 | 482 | 802 | 1125 | 915 | 1122 | 1328 | 1535 |
| | | 658 | 1025 | 1514 | 2081 | 2774 | 3130 | 2404 |
| 11'-4" (136") PRECAST | 445 | 598 | 935 | 1365 | 1864 | 2355 | 1793 | 2075 |
| | | 598 | 935 | 1365 | 1864 | 2441 | 3155 | 4044 |
| 12'-0"(144") PRECAST | 414 | 545 | 864 | 1254 | 1693 | 2074 | 1510 | 1818 |
| | | 555 | 864 | 1254 | 1693 | 2211 | 2832 | 3590 |
| 13'-4"(160") PRECAST | 362 | 427 | 726 | 1028 | 1331 | 1635 | 1224 | 1418 |
| | | 485 | 748 | 1076 | 1438 | 1855 | 2343 | 2820 |
| 14'-0"(168") PRECAST | 338 | 381 | 648 | 913 | 1180 | 1462 | 1287 | 1260 |
| | | 459 | 700 | 1003 | 1335 | 1714 | 2153 | 2666 |
| 14'-8" (176") PRESTRESSED | N.R. | NR | NR | NR | NR | NR | NR | NR |
| | | 465 | 765 | 1370 | 2045 | 2610 | 3183 | 3765 |
| 15'-4" (184") PRESTRESSED | N.R. | NR | NR | NR | NR | NR | NR | NR |
| | | 420 | 695 | 1250 | 1855 | 2370 | 2890 | 3410 |
| 17'-4" (208")PRESTRESSED | N.R. | NR | NR | NR | NR | NR | NR | NR |
| | | 310 | 530 | 950 | 1400 | 1800 | 2200 | 2600 |
| 19'-4" (232") PRESTRESSED | N.R. | NR | NR | NR | NR | NR | NR | NR |
| | | 240 | 400 | 750 | 1090 | 1400 | 1720 | 2030 |
| 21'-4" (256")PRESTRESSED | N.R. | NR | NR | NR | NR | NR | NR | NR |
| | | 183 | 330 | 610 | 940 | 1340 | 1780 | 2110 |
| 22'-0"(264")PRESTRESSED | N.R. | NR | NR | NR | NR | NR | NR | NR |
| | | 160 | 300 | 570 | 870 | 1250 | 1660 | 1970 |
| 24'-0"(288")PRESTRESSED | N.R. | NR | NR | NR | NR | NR | NR | NR |
| | | 130 | 240 | 470 | 720 | 1030 | 1350 | 1610 |

8" PRECAST & PRESTRESSED U-LINTELS

### UPLIFT

| LENGTH \ TYPE | 8F8-1T | 8F12-1T | 8F16-1T | 8F20-1T | 8F24-1T | 8F28-1T | 8F32-1T | LATERAL 8U8 | LATERAL 8F8 |
|---|---|---|---|---|---|---|---|---|---|
| | 8F8-2T | 8F12-2T | 8F16-2T | 8F20-2T | 8F24-2T | 8F28-2T | 8F32-2T | | |
| 2'-10" (34") PRECAST | 2727 | 2878 | 4101 | 5332 | 6569 | 7811 | 9055 | 2021 | 2021 |
| | 2727 | 2784 | 3981 | 5150 | 6401 | 7630 | 8851 | | |
| 3'-6" (42") PRECAST | 2169 | 2289 | 3260 | 4237 | 5219 | 6204 | 7192 | 1257 | 1257 |
| | 2169 | 2275 | 3169 | 4125 | 5091 | 6061 | 7036 | | |
| 4'-0" (48") PRECAST | 1878 | 1986 | 2832 | 3680 | 4532 | 5387 | 6245 | 938 | 938 |
| | 1878 | 1925 | 2750 | 3583 | 4422 | 5264 | 6110 | | |
| 4'-6" (54") PRECAST | 1660 | 1762 | 2507 | 3257 | 4010 | 4767 | 5525 | 727 | 727 |
| | 1660 | 1705 | 2435 | 3171 | 3913 | 4658 | 5406 | | |
| 5'-4" (64") PRECAST | 1393* | 1484 | 2110 | 2741 | 3375 | 4010 | 4648 | 505 | 505 |
| | 1393 | 1437 | 2050 | 2670 | 3293 | 3920 | 4549 | | |
| 5'-10" (70") PRECAST | 1272* | 1357 | 1930 | 2505 | 3084 | 3665 | 4247 | 418 | 418 |
| | 1272 | 1315 | 1875 | 2441 | 3010 | 3583 | 4157 | | |
| 6'-6" (78") PRECAST | 1141* | 1200 | 1733 | 2250 | 2769 | 3290 | 3812 | 707 | 887 |
| | 1141 | 1182 | 1684 | 2192 | 2703 | 3216 | 3732 | | |
| 7'-6" (90") PRECAST | 959* | 912 | 1475 | 1914 | 2354 | 2797 | 3240 | 591 | 657 |
| | 959 | 1029 | 1466 | 1907 | 2351 | 2797 | 3245 | | |
| 9'-4" (112") PRECAST | 801* | 612 | 980 | 1269 | 1560 | 1852 | 2144 | 454 | 630 |
| | 801 | 755 | 1192 | 1550 | 1910 | 2271 | 2634 | | |
| 10'-6"(126") PRECAST | 716* | 498 | 793 | 1027 | 1261 | 1496 | 1731 | 396 | 493 |
| | 716 | 611 | 1035 | 1389 | 1711 | 2034 | 2358 | | |
| 11'-4" (136") PRECAST | 666* | 439 | 696 | 893 | 1104 | 1309 | 1515 | 363 | 556 |
| | 666 | 535 | 909 | 1195 | 1595 | 1996 | 2398 | | |
| 12'-0"(144") PRECAST | 607* | 400 | 631 | 816 | 1001 | 1186 | 1372 | 340 | 494 |
| | 631 | 486 | 818 | 1069 | 1314 | 1799 | 2086 | | |
| 13'-4"(160") PRECAST | 500* | 340 | 532 | 686 | 841 | 997 | 1153 | 302 | 398 |
| | 573 | 409 | 682 | 1004 | 1367 | 1637 | 1897 | | |
| 14'-0"(168") PRECAST | 458* | 316 | 493 | 635 | 778 | 922 | 1065 | 286 | 360 |
| | 548 | 378 | 629 | 922 | 1254 | 1567 | 1816 | | |
| 14'-8" (176") PRESTRESSED | 243 | 295 | 459 | 591 | 724 | 857 | 990 | N.R. | 357 |
| | 243 | 352 | 582 | 852 | 1156 | 1491 | 1742 | | |
| 15'-4" (184") PRESTRESSED | 228 | 278 | 430 | 553 | 677 | 801 | 925 | N.R. | 327 |
| | 228 | 329 | 542 | 791 | 1072 | 1381 | 1616 | | |
| 17'-4" (208")PRESTRESSED | 188 | 236 | 361 | 464 | 567 | 670 | 774 | N.R. | 255 |
| | 188 | 276 | 449 | 649 | 874 | 121 | 1389 | | |
| 19'-4" (232") PRESTRESSED | 165 | 207 | 313 | 401 | 490 | 578 | 667 | N.R. | 204 |
| | 165 | 239 | 383 | 550 | 736 | 940 | 1160 | | |
| 21'-4" (256")PRESTRESSED | 145 | 186 | 278 | 356 | 433 | 512 | 590 | N.R. | 172 |
| | 142 | 212 | 336 | 477 | 635 | 807 | 983 | | |
| 22'-0"(264")PRESTRESSED | 140 | 180 | 268 | 343 | 418 | 493 | 568 | N.R. | 161 |
| | 131 | 205 | 322 | 457 | 607 | 771 | 941 | | |
| 24'-0"(288")PRESTRESSED | 127 | 165 | 244 | 312 | 380 | 447 | 515 | N.R. | 135 |
| | 124 | 186 | 290 | 408 | 538 | 680 | 833 | | |

*REDUCE VALUE BY 25% FOR GRADE 40 FIELD REBAR

8" PRECAST W/ 2" RECESS DOOR U-LINTELS

### GRAVITY

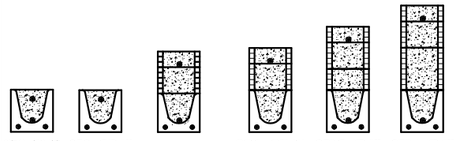
| LENGTH \ TYPE | 8RU6 | 8RF6-0B | 8RF10-0B | 8RF14-0B | 8RF18-0B | 8RF22-0B | 8RF26-0B | 8RF30-0B |
|---|---|---|---|---|---|---|---|---|
| | | 8RF6-1B | 8RF10-1B | 8RF14-1B | 8RF18-1B | 8RF22-1B | 8RF26-1B | 8RF30-1B |
| 4'-4" (52") PRECAST | 1489 | 1561 | 3053 | 2982 | 3954 | 4929 | 5904 | 6880 |
| | | 1827 | 3412 | 4982 | 6472 | 7947 | 9416 | 10878 |
| 4'-6" (54") PRECAST | 1357 | 1449 | 2782 | 2714 | 3600 | 4487 | 5375 | 6264 |
| | | 1702 | 3412 | 4982 | 6472 | 7947 | 9416 | 10878 |
| 5'-8" (68") PRECAST | 789 | 832 | 1607 | 1550 | 2058 | 2566 | 3075 | 3585 |
| | | 1153 | 2162 | 4074 | 6472 | 6516 | 5814 | 6839 |
| 5'-10" (70") PRECAST | 735 | 779 | 1500 | 1449 | 1924 | 2400 | 2876 | 3352 |
| | | 1103 | 2051 | 3811 | 6472 | 6516 | 5450 | 6411 |
| 6'-8" (80") PRECAST | 822 | 907 | 1677 | 2933 | 2576 | 3223 | 3872 | 4522 |
| | | 907 | 1677 | 2933 | 4100 | 6130 | 8171 | 6707 |
| 7'-6" (90") PRECAST | 669 | 761 | 1377 | 2292 | 1958 | 2481 | 2944 | 3439 |
| | | 764 | 1377 | 2329 | 3609 | 5492 | 6624 | 5132 |
| 9'-8" (116") PRECAST | 371 | 420 | 834 | 1253 | 1671 | 1342 | 1614 | 1886 |
| | | 535 | 928 | 1497 | 2179 | 2618 | 3595 | 2875 |

8" PRECAST W/ 2" RECESS DOOR U-LINTELS

### UPLIFT

| LENGTH \ TYPE | 8RF6-1T | 8RF10-1T | 8RF14-1T | 8RF18-1T | 8RF22-1T | 8RF26-1T | 8RF30-1T | LATERAL 8RU6 | LATERAL 8RF6 |
|---|---|---|---|---|---|---|---|---|---|
| | 8RF6-2T | 8RF10-2T | 8RF14-2T | 8RF18-2T | 8RF22-2T | 8RF26-2T | 8RF30-2T | | |
| 4'-4" (52") PRECAST | 1244 | 1573 | 2413 | 3260 | 4112 | 4967 | 5825 | 932 | 932 |
| | 1244 | 1519 | 2339 | 3170 | 4008 | 4850 | 5696 | | |
| 4'-6" (54") PRECAST | 1192 | 1507 | 2311 | 3121 | 3937 | 4756 | 5577 | 853 | 853 |
| | 1192 | 1455 | 2240 | 3036 | 3837 | 4643 | 5453 | | |
| 5'-8" (68") PRECAST | 924* | 1172 | 1795 | 2423 | 3055 | 3689 | 4325 | 501 | 501 |
| | 924 | 1132 | 1741 | 2357 | 2978 | 3603 | 4230 | | |
| 5'-10" (70") PRECAST | 856* | 1138 | 1742 | 2352 | 2965 | 3581 | 4198 | 469 | 469 |
| | 856 | 1093 | 1680 | 2288 | 2891 | 3497 | 4106 | | |
| 6'-8" (80") PRECAST | 778 | 882 | 1513 | 2042 | 2573 | 3107 | 3642 | 830 | 1100 |
| | 778 | 936 | 1468 | 1987 | 2509 | 3035 | 3563 | | |
| 7'-6" (90") PRECAST | 688 | 697 | 1325 | 1810 | 2280 | 2753 | 3227 | 710 | 941 |
| | 688 | 849 | 1302 | 1762 | 2225 | 2690 | 3157 | | |
| 9'-8" (116") PRECAST | 533* | 433 | 808 | 1123 | 1413 | 1704 | 1995 | 516 | 614 |
| | 533 | 521 | 1000 | 1369 | 1728 | 2088 | 2450 | | |

*REDUCE VALUE BY 5% FOR GRADE 40 FIELD REBAR




## CAST CRETE / LOTT'S / WEKIWA LINTEL SCHEDULE

| LINTEL NO. | LENGTH | TYPE | COMMENTS |
|---|---|---|---|
| L 1 | 17'-4" | 8F32-1B/IT | GARAGE DOOR |
| L 2 | 3'-4" | 8F16-0B/IT | SH1/2 34 |
| L 3 | 7'-6" | 8F16-0B/IT | FR. SH25 |
| L 4 | 9'-4" | 8F16-0B/IT | 8/0X8/0 S.G.D. |
| L 5 | 14'-0" | 8F16-0B/IT | REAR LANAI |
| L 6 | 4'-6" | 8F16-0B/IT | SH25 |
| L 7 | 4'-6" | 8F16-0B/IT | SH25 |
| L 8 | 4'-6" | 8F16-0B/IT | SH25 |
| L 9 | 4'-6" | 8F16-0B/IT | SH25 |
| L 10 | 4'-6" | 8F16-0B/IT | SH25 |
| L 11 | 3'-4" | 8F16-0B/IT | 2/0 X 3/0 |
| L 12 | 3'-4" | 8F16-0B/IT | 2/0 X 3/0 |
| L 13 | 5'-10" | 8RF12-0B/IT | FRONT DOOR |
| L 14 | 8'-0" | 8F40-0B/IT | FRONT ENTRY |
| L 15 | | | |
| L 16 | | | |
| L 17 | | | |
| L 18 | | | |
| L 19 | | | |
| L 20 | | | |
| L 21 | | | |
| L 22 | | | |
| L 23 | | | |
| L 24 | | | |
| L 25 | 9'-4" | 8F32-1B/IT | GARAGE DOOR |
| L 26 | 15'-8" | 8F16-1B/IT | GARAGE |
| L 27 | 4'-6" | 8RF28-0B/IT | OPT. GAR. SERVICE DOOR |
| L 28 | | | |
| L 29 | | | |
| L 30 | | | |
| L 31 | | | |
| L 32 | | | |
| L 33 | | | |
| L 34 | | | |
| L 35 | | | |
| L 36 | | | |
| L 37 | | | |
| L 38 | | | |
| L 39 | | | |

## MATERIALS

1. f'c precast lintels = 3500 psi.
2. f'c prestressed lintels = 6000 psi.
3. f'c grout = 3000 psi w/ maximum 3/8" aggregate.
4. Concrete masonry units (CMU) per ASTM C90 w/ minimum net area compressive strength = 1900 psi.
5. Rebar provided in precast lintel per ASTM A615 GR60. Field rebar per ASTM A615 GR40 or GR60.
6. Prestressing strand per ASTM A416 grade 270 low relaxation.
7. 11/32 wire per ASTM A510.
8. Mortar per ASTM C270 type M or S.

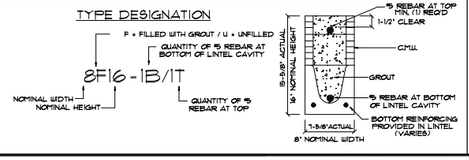
## GENERAL NOTES

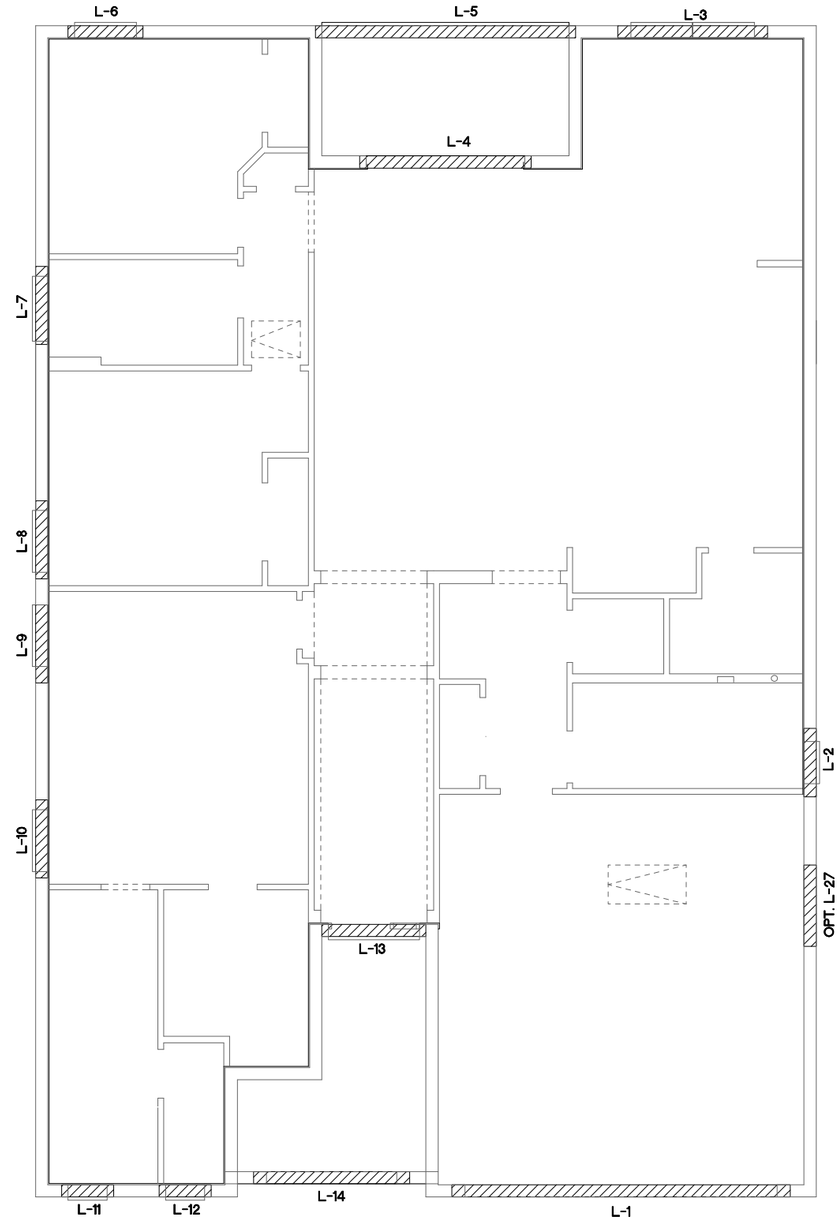
1. Provide full mortar head and bed joints.
2. Store filled lintels as required.
3. Installation of lintel must comply with the architectural and/or structural drawings.
4. Lintels are manufactured with 9-1/2" long notches at the ends to accommodate vertical cell reinforcing and grouting.
5. All lintels meet or exceed L/360 vertical deflection, except lintels 17'-4" and longer with a nominal height of 8" meet or exceed L/180.
6. Bottom field added rebar to be located at the bottom of the lintel cavity.
7. 11/32" diameter wire stirrups are welded to the bottom steel for mechanical anchorage.
8. Cast-in-place concrete may be provided in composite lintel in lieu of concrete masonry units.
9. Safe load ratings based on rational design analysis per ACI 318 and ACI 530

## SAFE LOAD TABLE NOTES

1. All values based on minimum 4" bearing. Exception: Safe loads for unfilled lintels must be reduced by 20% if bearing length is less than 6-1/2". Safe loads for all recessed lintels based on 8" nominal bearing.
2. N.R. = Not Rated.
3. Safe loads are total superimposed allowable load on the section specified.
4. Safe loads based on grade 40 or grade 60 field rebar.
5. Additional lateral load capacity can be obtained by designer by providing adcional reinforced masonry above the precast lintel.
6. One #1 rebar may be substituted for two #5 rebars in 8" lintels only.
7. The designer may evaluate concentrated loads from the safe load tables by calculating the max. resisting moment and shear at d/-away from the face of support.
8. For composite lintel heights not shown, use safe load from next lower height.
9. All safe loads in units of pounds per linear foot.

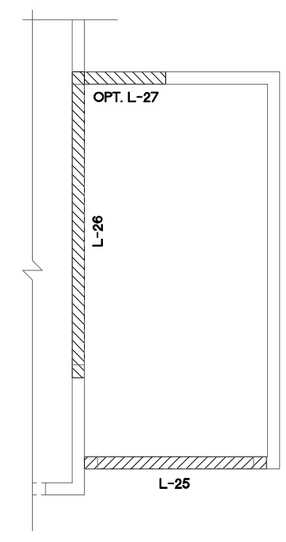
## TYPE DESIGNATION




PRE CAST LINTEL LAYOUT "C"

1/8"=1'-0" (11X17) 1/4"=1'-0" (22X34)




3-CAR GARAGE OPT.

1/8"=1'-0" (11X17) 1/4"=1'-0" (22X34)

THIS STRUCTURE IS DESIGNED TO WITHSTAND 150 MPH WINDS PER THE 7th EDITION, 2020 OF THE FLORIDA BUILDING CODE RESIDENTIAL AND IS CERTIFIED AS SUCH

FLORIDA SERIES

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| REVISIONS | BY |
|---|---|
| 05-16-19 | JF |

Engineering By:
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MICHAEL A. THOMPSON
PE 47509
PHONE 407-721-2292

A DIVISION OF PARK SQUARE ENTERPRISES, INC.
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Orlando, Florida 32811
Phone: (407) 529 - 3000

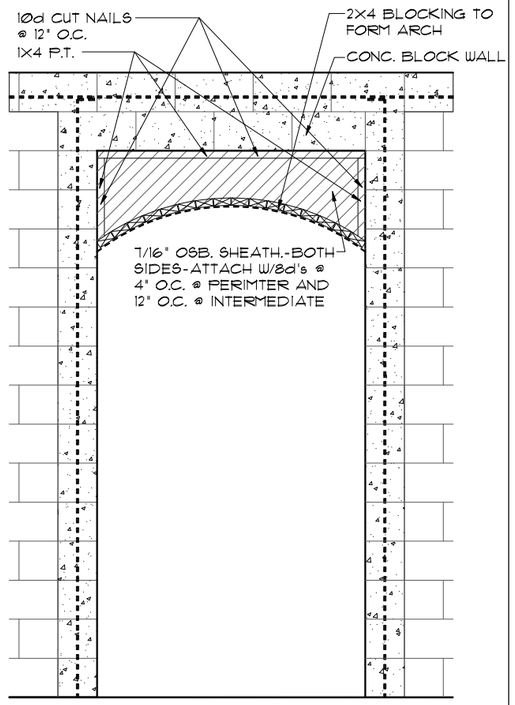
Park Square HOMES

PRE CAST LINTEL LAYOUT

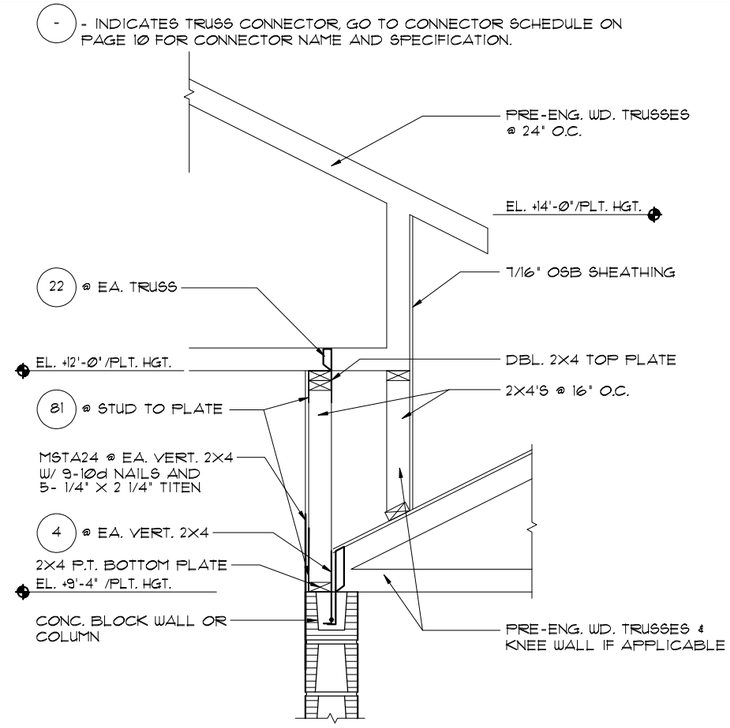
1821

THE WALTON IV

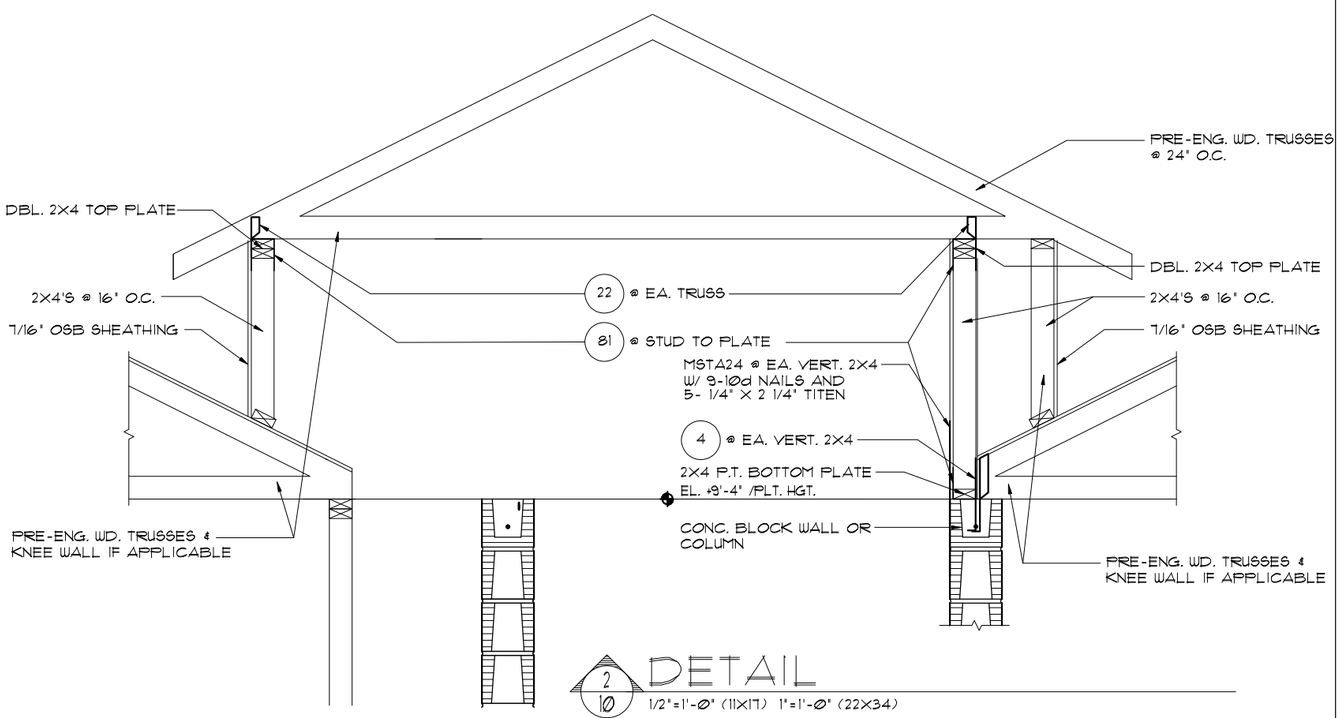
| | |
|---|---|
| DATE | 04-04-12 |
| SCALE | AS NOTED |
| DRAWN | RDC |
| JOB | 1821 |
| SHEET | 09C |
| OF | SHEETS |




4/10 DETAIL
1/2"=1'-0" (11X17) 1"=1'-0" (22X34)




1/10 DETAIL
1/2"=1'-0" (11X17) 1"=1'-0" (22X34)




2/10 DETAIL
1/2"=1'-0" (11X17) 1"=1'-0" (22X34)

## CONNECTOR SCHEDULE

| CONNECT. TYPE | SIMPSON DESCRIPTION | SIMPSON FASTENERS PER CONNECTOR | USP DESCRIPTION | USP FASTENERS PER CONNECTOR | MAX. UPLIFT | LAT. LDS. F1 / F2 |
|---|---|---|---|---|---|---|
| 4 | HETA20 | 14-10d x 1½" | ETA20 | 14-10d | 1,810 | 65 / 960 |
| 5 | DETAL20 | 18-10d x 1½" | N/A | N/A | 2,480 | 2000/ 1370 |
| 20 | H3 | RFT: 4-8d / PLT: 4-8d | RT3 | RFT: 4-8d / PLT: 4-8d | 365 | 125 / 160 |
| 21 | H1 | RFT:6-8dx1½"/PLT:4-8d | RT15 | RFT:5-8dx1½"/PLT:5-8d | 425 | 485 / 165 |
| 22 | H10A | RFT: (9)10d x 1 1/2" | RT16 | RFT: 8-8d x 1½" | 1015 | 585/525 |
| | | PLT: (9)10d x 1 1/2" | | PLT: 8-8d | | |
| 23 | LUS26 | HDR: 4-10d/JST: 4-10d | JUS26 | HDR: 4-10d/JST: 4-10d | 935 | N/A |
| 24 | H7Z | RFT / TRS: (4)8d | RT20 | RFT / TRS: 9-10d | 715 | 400 / N/A |
| | | PLT / STD: (2)8dX 1 1/2" (8)8D | | PLT / STD: 13-10d | | |
| 26 | H2.5A | RFT:5-8d / PLT: 5-8d | RT7 | RFT:5-8d / PLT: 5-8d | 535 | 150 / 150 |
| 34 | A34 | H:4-8dx1½"/P:4-8dx1½" | MP34 | H:4-8dx1½"/P:4-8dx1½" | 365 | 280 / 303 |
| 35 | A35 | H:4-8dx1½"/P:4-8dx1½" | MPAIF | H:6-8dx1½"/P:6-8dx1½" | 300 | 440 / N/A |
| 37 | MTS12 | 14-10d | MTW12 | 14-10d | 850 | N/A |
| 38 | MTS16 | 14-10d | MTW16 | 14-10d | 850 | N/A |
| 43 | LSTA12 | 10-10d | LSTA12 | 10-10d | 795 | N/A |
| 45 | ST18 | 14-16d | ST18 | 14-16d | 1,335 | N/A |
| 47 | LSTA24 | 18-10d | LSTA24 | 18-10d | 1,235 | N/A |
| 71 | MSTA36 | 26-10d | MSTA36 | 26-10d | 2,050 | N/A |
| 72 | MSTC66 | 76-16d SINKERS | N/A | N/A | 5,850 | N/A |
| 79 | SP1 | STD:6-10d / PLT:4-10d | SPT22 | STD:4-10d / PLT:4-10d | 535 | 560 / 260 |
| 80 | SP2 | STD:6-10d / PLT:6-10d | SPT224 | STD:6-10d / PLT:6-10d | 605 | 560 / 260 |
| 81 | SPH4,6,8 | 12-10d x 1½" | TP4,6,&8 | 12-10d x 1½" | 550 | N/A |
| 90 | ABU66Z | 12-16d | PAU66 | 12-16d | 1,640 | N/A |
| 89 | CB66 | (2) ⅝" BOLTS | PA8X8 | 4-10d | 4,510 | 985 |
| 92 | ABU44 | 12-16d | PAU44 | 12-16d | 2,200 | N/A |
| 93 | AC6 (MAX) | 28-16d | PBS66 | 24-16d | 1,815 | 1,070 |
| 94 | AC4 (MAX) | 28-16d | PBS44 | 24-16d | 1,815 | 1,070 |
| 95 | HTS20 | 20-10d | HTW20 | 20-10d | 1,450 | N/A |
| 96 | HD8A | SILL: ⅞" BOLT | HHD8A | SILL: ⅞" BOLT | 7,910 | N/A |
| | | STUD:(3) ⅞"X5½" BOLTS | | STUD:(3) ⅞"X5½" BOLTS | | |
| 99 | A35 | H:4-8dx1½"/P:4-8dx1½" | MPA1 | H:6-8dx1½"/P:6-8dx1½" | 440 | 440 / N/A |
| 98-101 | HTT4 | ⅝" BOLT/ 18-16dX2½" | N/A | N/A | 3,640 | N/A |
| 97-100-102 | HTT5 | ⅝" BOLT/ 26-10d | N/A | N/A | 4,275 | N/A |
| 103 | VGTR/L | 32-SDS¼"X3"/(2) ⅝" BLT | N/A | N/A | 3,990 | N/A |
| 104 | HDU8-SDS2.5 | 7/8" BLT/20-SDS ¼"x2½" | N/A | N/A | 5,020 | N/A |
| 110 | HCP2 | 12-10d x 1½" | HHCP2 | 20-10d x 1½" | 520 | 260 / N/A |
| 167 | HHUS46 | H:14-16d/J:6-16d | THD46 | H:8-18d/J:12-10d | 1,550 | N/A |
| 168 | U46 | H:8-10d/J:4-10d | SUH46 | H:8-16d/J:4-16d | 710 | N/A |
| 181 | HUS26 | 20-16d | THD26 | H:20-16d/J:10-10d | 1,550 | N/A |
| 184 | HHUS28-2 | G:28-16d / T:8-16d | EHUH28-2 | 12-16d | 2,000 | N/A |
| 214 | HUC212-3TF | HD:16-3/16"X1½" TAPCON BM: 6-16d | HDO212-3 | HD:18-3/16"X1½" TAPCON BM: 6-10d | 1,135 | N/A |
| 215 | HGUS210-2 | HDR:46-16d/JST:10-16d | EHUH210-2 | HDR:40-16d/JST:16-10d | 2,720 | N/A |
| 216 | HUS412 | BLOCK: 10-¼"X1½" TC JOIST : 10-16d | HUS412 | BLOCK: 10-¼"X1½" TC JOIST : 10-16d | 3,240 | N/A |
| 217 | HUS212-2 | BLOCK: 10-¼"X1½" TC JOIST : 10-16d | HUS212-2 | BLOCK: 10-¼"X1½" TC JOIST : 10-16d | 2,630 | N/A |
| 219 | MBHA412 | H:1-ATR¾X8 TOP&FACE | NFM35X12U | H:1-½" J-BOLT | 3,145 | N/A |
| | | JOIST: 18-10d | | J:5-½" BOLTS | | |
| 220 | N/A | N/A | NFM 3X12 | BLK:½"Φ J /JST:14-10d | 1,620 | N/A |
| 226 | MBHA4.75/12 | HDR : (2) ¾"Φ x 8" JOIST : 18-10d | NFM45U | HDR : MIN. ½"Φ "J" BOLT JOIST : (5) ½"Φ BOLTS | 2,160 | N/A |
| 231 | MBHA3.56/16 | HDR : (2) ¾"Φ x 8" JOIST : 18-10d | NFM3.5X16U | HDR :MIN. ½"ΦxJ-BOLTS JOIST : (5) ½"Φ BOLTS | 3,450 | N/A |
| 232 | MBHA5.50/16 | HDR : (2) ¾"Φ x 8" JOIST : 18-10d | NFM5.5X16U | HDR :MIN. ½"ΦxJ-BOLTS JOIST : (5) ½"Φ BOLTS | 3,450 | N/A |
| 240 | H15 | R:4-10dx1½"/P:4-10dx1½" | N/A | N/A | 1,300 | 480 / N/A |
| 241 | LGT2 | 30-16d-sinker | LUGT2 | 32-10d | 2000 | 1015 / 440 |
| 301 | MGT | (1) ¾"BLTS./GIR: 22-10d | N/A | N/A | 3,965 | N/A |
| 302 | HGT-2 or 3 | LTL:¾"BLTS./GIR: 8-10d | USC63 | LTL:¾"BLTS./GIR: 8-16d | 6485 | N/A |
| 303 | HGT-4 | LTL:¾"BLTS./GIR: 16-10d | N/A | N/A | 9,250 | N/A |
| 401 | SUR/L414 | FACE:18-16d/JST:8-16d | N/A | N/A | 1,700 | N/A |
| T | CONNECTORS TO BE SPECIFIED AND PROVIDED BY TRUSS MANUFACTURERS | | | | | |

THIS STRUCTURE IS DESIGNED TO WITHSTAND 150 MPH WINDS PER THE 7th EDITION, 2020 OF THE FLORIDA BUILDING CODE RESIDENTIAL AND IS CERTIFIED AS SUCH

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|---|---|
| 05-16-19 | JF |

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TYPICAL DETAILS / CONNECTOR SCHEDULE

1821

THE WALTON IV

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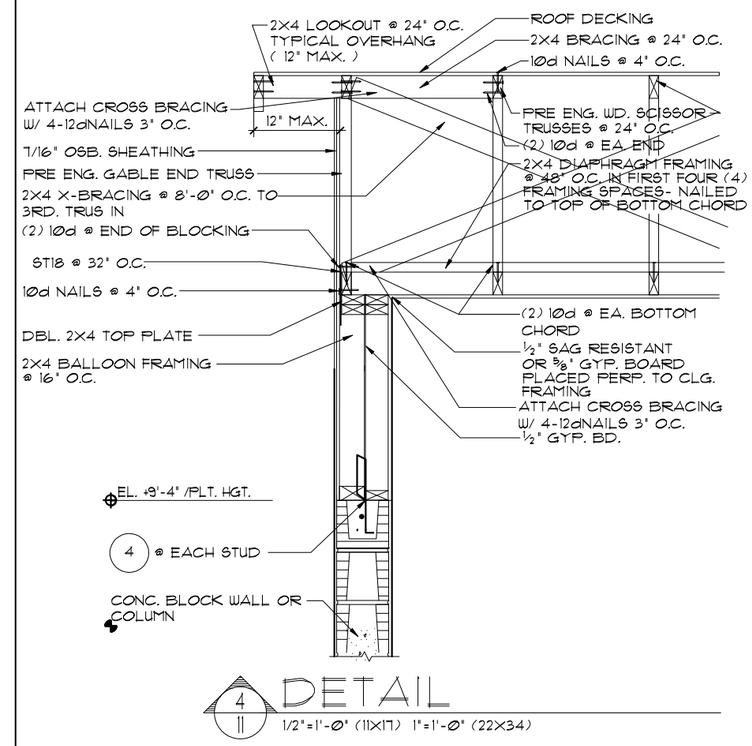
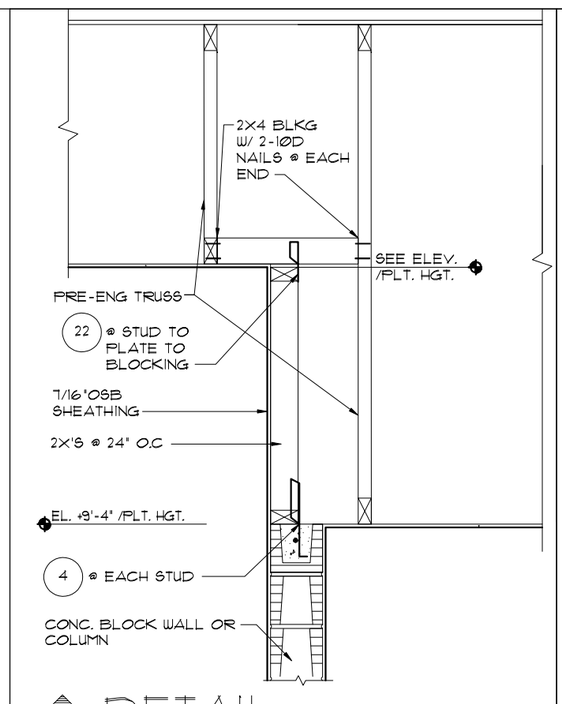
| DATE | 04-04-12 |
| SCALE | AS NOTED |
| DRAWN | RDC |
| JOB | 1821 |
| SHEET | 10 |
| OF | SHEETS |



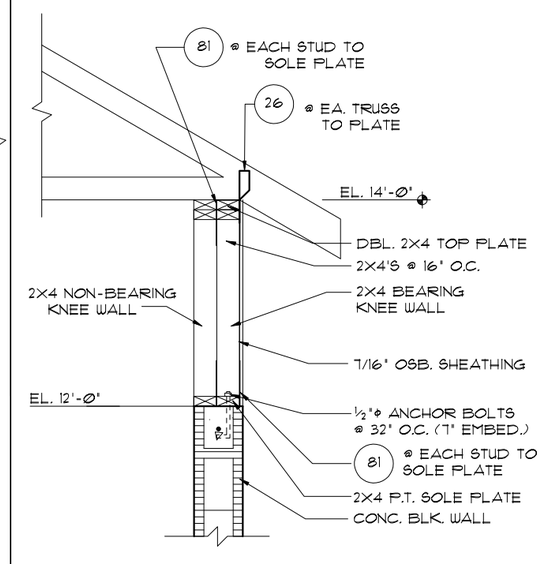

4/11 DETAIL

1/2"=1'-0" (11X17) 1"=1'-0" (22X34)



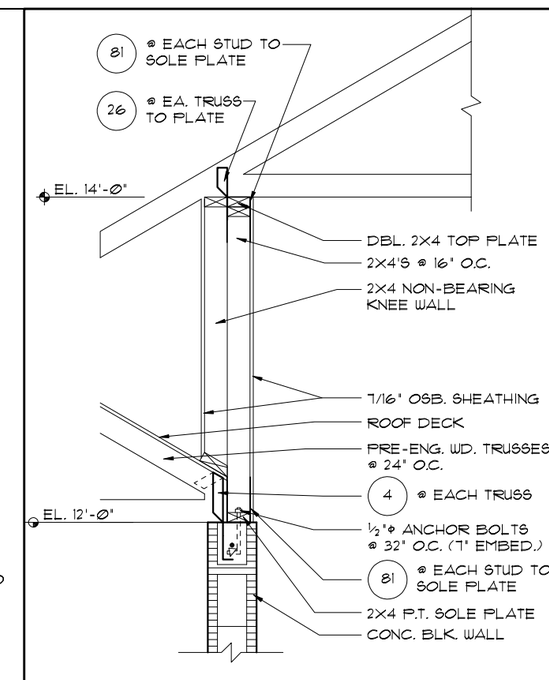

3/11 DETAIL

1/2"=1'-0" (11X17) 1"=1'-0" (22X34)




2/11 DETAIL

1/2"=1'-0" (11X17) 1"=1'-0" (22X34)




1/11 DETAIL

1/2"=1'-0" (11X17) 1"=1'-0" (22X34)

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TYPICAL DETAILS

1821

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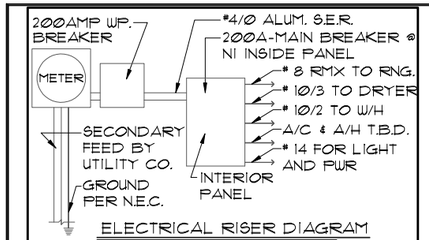



ELECTRICAL RISER DIAGRAM

N.T.S.

NOTE: ELECTRICAL MATERIALS AND INSTALLATIONS SHALL COMPLY W/ APPLICABLE PROVISIONS OF THE NATIONAL ELEC. CODE 250.52(A)(1) TO (6), LOCAL CODES, AND THE LOCAL POWER COMPANY.

## MECHANICAL INFORMATION

PER 2010 FLORIDA RESIDENTIAL CODE

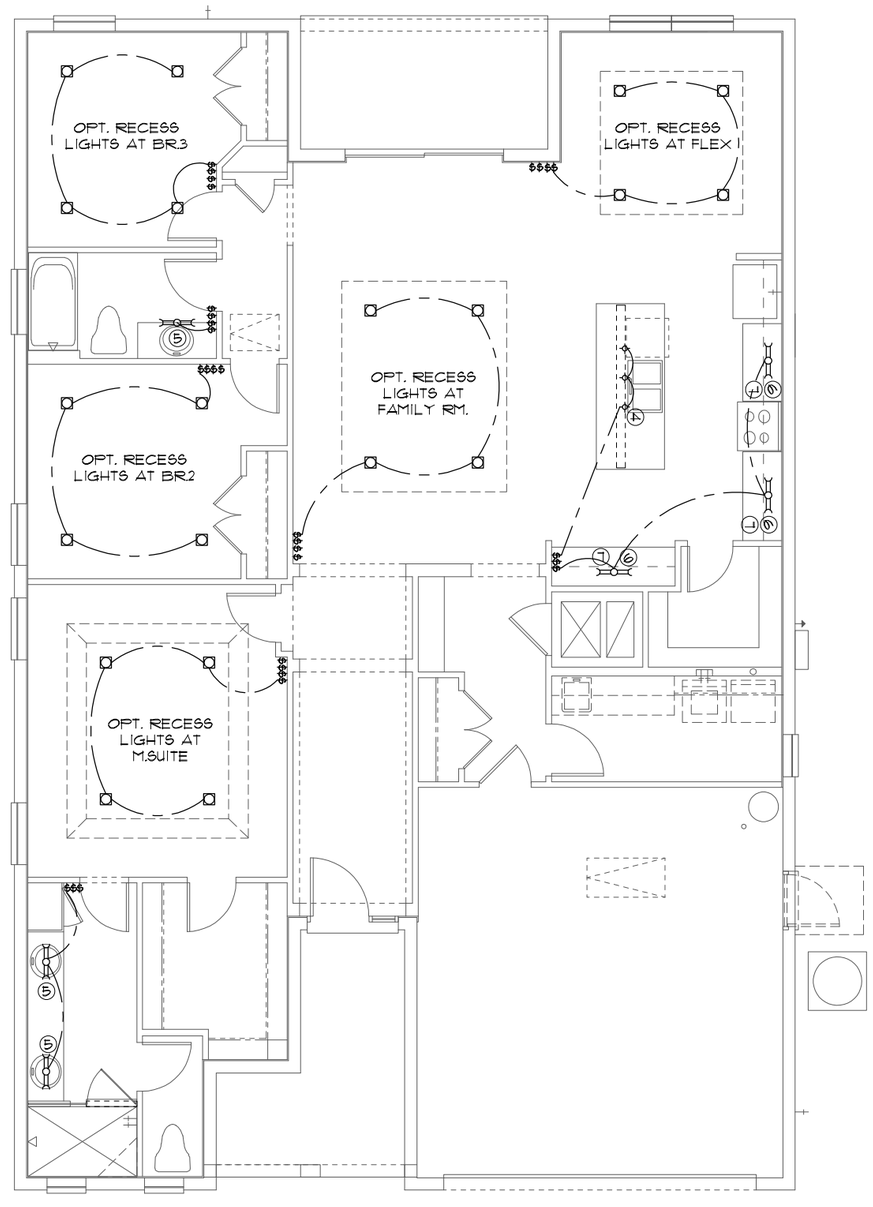
1. COMPLETE DUCT DESIGN WITH SIZES AND R-VALUE COMPLYING WITH THE FLORIDA ENERY EFFICIENCY CODE FOR BUILDING CONSTRUCTION 610.1 ABC.1
2. SUFFICIENT SPACE SHALL BE PROVIDED ADJACENT TO THE MECHANICAL COMPONENTS TO ASSURE ADEQUATE ACCESS FOR:
   A) CONSTRUCTIONS AND SEALING, AND
   B) SECTION M1601 PER THE FLORIDA RESIDENTIAL CODE 2010 EDITION
3. AIR CONDITIONING SYSTEM SHALL BE COMPLETELY BALANCED. ALL ROOMS ISOLATED FROM THE RETURN AIR SHALL BE PROVIDED WITH MEANS TO COMPLY WITH SECTION M1602 OF THE FLA. RESIDENTIAL CODE 2010 EDITION.

## GENERAL NOTES

1. IAW NEC 2008- 210.12- ALL 15A OR 20A, 120V BRANCH CIRCUITS THAT SUPPLY OUTLETS IN DWELLING UNITS- FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOM, CLOSETS, HALLWAYS OR SIMILAR AREAS SHALL BE PROTECTED BY A LISTED AFCI DEVICE OF THE COMBINATION TYPE.
2. IAW NEC 2008- 406.11, ALL 15A AND 20A, 125V RECEPTACLES SHALL BE LISTED AS TAMPER RESISTANT.
3. SMOKE DETECTORS SHALL BE IN ALL SLEEPING AREAS, SHALL BE INTERCONNECTED, SHALL BE WITHIN 1' TO 3' OF PEAK, AND SHALL BE 3' FROM THE SUPPLY OR RETURN AIR STREAM AND EQUIPPED WITH A BATTERY BACK-UP.
4. RANGE / WATER HEATER 220V OUTLET DELETED WITH GAS COMMUNITIES.

## ELECTRICAL LEGEND

- SINGLE POLE SWITCH
- THREE WAY SWITCH
- OUTLET 110-115
- OUTLET 110-115, SPLIT WIRED
- OUTLET 110-115, W/ USB
- OUTLET 110-115, CEILING MOUNTED
- OUTLET 110-115, FLOOR MOUNTED
- 220-240, SPECIAL PURPOSE OUTLET
- LIGHT FIXTURE, CEILING MOUNTED
- LIGHT FIXTURE, WALL MOUNTED
- LIGHT FIXTURE, RECESSED
- RECESSED EYEBALL, ADJUSTABLE
- FC LAMP HOLDER W/ PULL CHAIN
- FLUORESCENT FIXTURE
- FLOODLIGHTS
- TELEVISION OUTLET
- TELEPHONE OUTLET
- INTERCOM
- CHIMES
- SMOKE DETECTOR
- CM CARBON MONOXIDE DETECTOR
- PUSH BUTTON
- EXHAUST FAN
- EXHAUST FAN / LIGHT COMBO
- DC DISPOSAL
- DISCONNECT SWITCH
- ELECTRICAL PANEL
- F CEILING FAN, INSTALLED
- F CEILING FAN, PREWIRED
- J JUNCTION BOX
- DT DIGITAL THERMOSTAT




## OPTION LEGEND

1. NOT USED
2. NOT USED
3. OPT. DBL. CHANDELIER- SEE COLOR SHEET FOR SPACING
4. OPT. PENDANTS LIGHTS- SEE COLOR SHEET FOR SPACING
5. OPT. TOE-KICK LIGHTING UNDER CABINETS
6. OPT. ABOVE CABINET LIGHTING
7. OPT. UNDER CABINET LIGHTING

# LIGHTING OPTIONS

1/8"=1'-0" (11X17) 1/4"=1'-0" (22X34)

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LIGHTING OPTIONS

1821

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