

FIRST FLOOR FRAMING METHODS	
METHOD	OC SPACING
11-7/8 TJI's SERIES 210	16"
SPF NO.2 2X12's OR BETTER	16"

- | MARK | BEAM SIZE | COMMENTS |
|------|--------------------------------|--------------|
| ① | (3) SPF NO.2 2X12
OR BETTER | DROPPED BEAM |
| ② | (2) SPF NO.2 2X8
OR BETTER | RAISED BEAM |

MARK	FOOTING SIZE	REINFORCEMENT
A	24"X24"X12" CONCRETE FTG	NONE REQUIRED

DOOR NOTES:

1. GENERAL CONTRACTOR SHALL VERIFY ALL DOOR SCHEDULE INFORMATION PRIOR TO ORDERING DOORS AND FRAMES.
2. ALL EXTERIOR DOORS SHALL BE PROVIDED WITH WEATHERSTRIPPING AND THRESHOLD.
3. ALL SWING DOORS SHALL BE PROVIDED WITH HINGE-OR WALL-MOUNTED DOOR STOPS.
4. ALL GLASS IN DOORS AND TRANSOMS SHALL BE TEMPERED.

DOOR HARDWARE SETS:

1. (3) HINGES, ENTRY HANDLE LOCK SET, DEAD BOLT.

WINDOW NOTES:

1. GENERAL CONTRACTOR SHALL VERIFY ALL WINDOW SCHEDULE INFORMATION PRIOR TO ORDERING WINDOWS AND FRAMES.
2. ALL WINDOWS NOMINAL. GENERAL CONTRACTOR TO VERIFY ACTUAL SIZES AND FRAMING REQUIREMENTS WITH WINDOW MANUFACTURER.
3. SECOND FLOOR WINDOWS REQUIRED FOR EMERGENCY EGRESS SHALL MEET THE REQUIREMENTS OF IRC R310.1, GENERALLY 20" MIN. CLEAR WIDTH, 24" MIN. CLEAR HEIGHT, AND 5.7 SQUARE FEET NET CLEAR OPENING.
4. NO WINDOW GLAZING SHALL BE WITHIN 18" OF FINISH FLOOR.
5. SAFETY GLAZING SHALL BE TEMPERED.

ABRREVIATIONS

DW	DISHWASHER
EP	ELECTRIC PANEL
S&R	SHELF AND ROD
SH#	SINGLE HUNG WINDOW
SH	SHELF
SHR	SHOWER
WC	WALL CABINET
HWH	HOT WATER HEATER
W	WASHER
D	DRYER

	STAIR RISERS NOT TO EXCEED 8 1/4" PER CODE. TREADS TO BE 9" MIN. WITH 1" NOSING.
	HANDRAILS & PICKETS: 36" HIGH HANDRAILS @ ALL STAIRS. 36" RAILING @ ALL BALCONIES. PICKETS SPACED TO NOT ALLOW A 4" SPHERE TO PASS THROUGH.
	LABEL DRYER VENT LENGTH ON DUCT ALL DRYWALL TO BE 1/2" EXCEPT GARAGE CEILING TO BE 5/8" TYPE X
FE	= FIRE EXTINGUISHER TO BE LOCATED IN CABINET UNDER KITCHEN SINK
☼	= BATH FAN VENTED TO EXTERIOR
CO	= CARBON MONOXIDE DETECTOR
	= SMOKE DETECTOR

SQUARE FOOTAGES			
FIRST FLOOR	=	900	SF
SECOND FLOOR	=	900	SF
TOTAL HEATED	=	1800	SF
<hr/>			
FRONT PORCH	=	100	SF

PLAN AND FRAMING NOTES

1. ALL WINDOW AND DOOR HEADERS TO BE (2) 2X6'S WITH (1) JACK STUDS UNLESS OTHERWISE NOTED.
2. INTERIOR DOORS IN CLOSE PROXIMITY TO A PERPENDICULAR WALL ON THE HINGE SIDE TO MAINTAIN 4" CLEAR FROM JAMB TO ADJACENT PERPENDICULAR WALL SURFACE. COORDINATE THIS DIMENSION WITH DOOR SURROUND TRIM.
3. CLOSET DOORS (SINGLE AND DOUBLE TYPE) ARE TO BE CENTERED WITHIN THE CLOSET THEY SERVE.
4. DOOR SIZES PROVIDED AND WINDOWS DIMENSIONED ARE NOMINAL. COORDINATE ROUGH FRAMING OPENING SIZES WITH WINDOW AND DOOR MANUFACTURER/INSTALLERS REQUIREMENTS AND CLEARANCES.
5. PROVIDE WOOD BLOCKING IN 2X4 FRAMING AT ALL BUILT-IN CABINETRY LOCATIONS. REQUIRED GRAB BAR LOCATIONS, CLOSET SHELVING, AND WALL MOUNTED TV LOCATIONS.
6. CLOSETS AND OTHER SURFACES NOT CALLED OUT OTHERWISE HAVE FLOOR, WALL, AND CEILING MATERIALS AND FINISHES TO MATCH THE SPACE THEY ARE ACCESSED FROM. REFER TO PLANS FOR ANY INTERRUPTION OF FLOORING BETWEEN THESE SPACES.

WALL FRAMING LEGEND

 2X4 WALL FRAMING AT 16" OC. SHOWN 4-1/2" THICK (FINISHED)
 2X6 WALL FRAMING AT 16" OC. SHOWN 6-1/2" THICK (FINISHED)

PROPOSED FIRST FLOOR PLAN

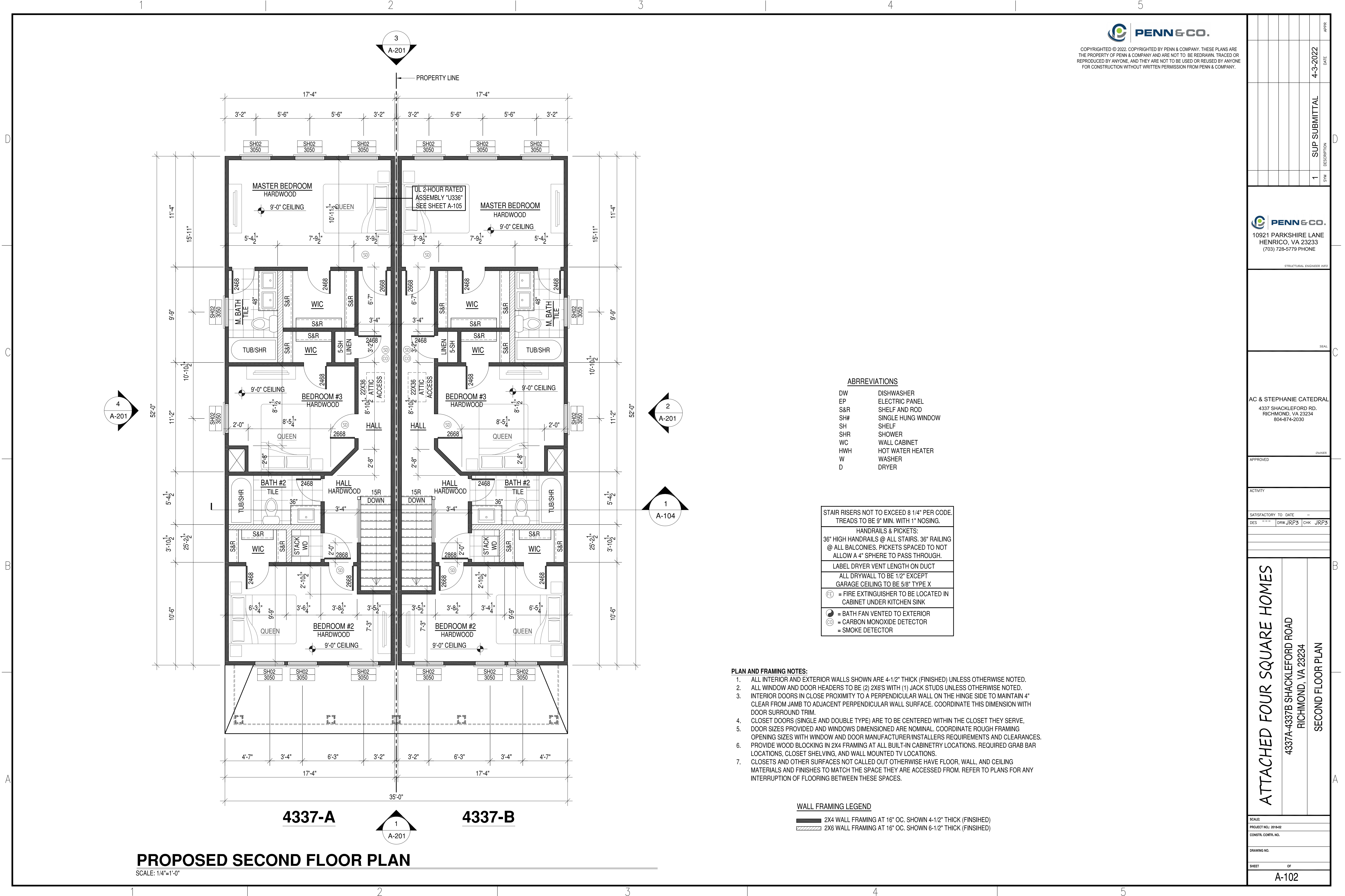
SCALE: 1/4"=1'-0"

ATTACHED FOUR SQUARE HOMES

RICHMOND, VA 23234

NAME _____

SCALE:
 PROJECT NO.: 2018-02
 INSTR. CONTR. NO.
 DRAWING NO.
 SHEET
 A-



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10921 PARKSHIRE LANE
HENRICO, VA 23233
(703) 728-5779 PHONE

STRUCTURAL ENGINEER INFO

AC & STEPHANIE CATEDRAL
4337 SHACKLEFORD RD.
RICHMOND, VA 23234
804-874-2030

APPROVED

ACTIVITY

SATISFACTORY TO: DATE

DES: [Signature] | DRW: JRP3 | CHK: JRP3

ATTACHED FOUR SQUARE HOMES
4337A-4337B SHACKLEFORD ROAD
RICHMOND, VA 23234
SECOND FLOOR PLAN

SCALE:
PROJECT NO.: 2018-02
CONSTR. CONTR. NO.
DRAWING NO.
SHEET OF

A-102

ABBREVIATIONS

DW	DISHWASHER
EP	ELECTRIC PANEL
S&R	SHELF AND ROD
SH#	SINGLE HUNG WINDOW
SH	SHELF
SHR	SHOWER
WC	WALL CABINET
HW	HOT WATER HEATER
W	WASHER
D	DRYER

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ALL DRYWALL TO BE 1/2" EXCEPT
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(FE) = FIRE EXTINGUISHER TO BE LOCATED IN
CABINET UNDER KITCHEN SINK

(B) = BATH FAN VENTED TO EXTERIOR
(CO) = CARBON MONOXIDE DETECTOR
(S) = SMOKE DETECTOR

PLAN AND FRAMING NOTES:

- ALL INTERIOR AND EXTERIOR WALLS SHOWN ARE 4-1/2" THICK (FINISHED) UNLESS OTHERWISE NOTED.
- ALL WINDOW AND DOOR HEADERS TO BE (2) 2X6'S WITH (1) JACK STUDS UNLESS OTHERWISE NOTED.
- INTERIOR DOORS IN CLOSE PROXIMITY TO A PERPENDICULAR WALL ON THE HINGE SIDE TO MAINTAIN 4" CLEAR FROM JAMB TO ADJACENT PERPENDICULAR WALL SURFACE. COORDINATE THIS DIMENSION WITH DOOR SURROUND TRIM.
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WALL FRAMING LEGEND

- 2X4 WALL FRAMING AT 16" OC. SHOWN 4-1/2" THICK (FINISHED)
- 2X6 WALL FRAMING AT 16" OC. SHOWN 6-1/2" THICK (FINISHED)

PROPOSED SECOND FLOOR PLAN

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

PROPOSED ROOF PLAN

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

ATTIC AREA VENTILATION CALCULATIONS PER UNIT
<p>ATTIC AREA:</p> <p>822 SQ.FT. / 300"144 =</p> <p>400 SQ. IN. NET FREE AREA REQUIRED</p> <p>(50% MIN AT RIDGE)</p> <p>RIDGE VENT:</p> <p>20 L.F. X 18 SQ. IN. PER LINEAR FOOT =</p> <p>360 SQ. IN. PROVIDED</p> <p>SOFFIT VENT:</p> <p>146 L.F. X 5.867 SQ. IN. PER LINEAR FOOT =</p> <p>856 SQ. IN. PROVIDED</p> <p>TOTAL NET FREE ARE PROVIDED = <u>1,216</u> SQ. IN.</p> <p>POWER VENT = (1) 12" AIRVENT, INC POWERCOOL PLUS 12 AUTOMATIC THERMOSTAT W/ HUMIDSTAT VENT FOR UP TO 1,650 SF OF ATTIC SPACE, INSTALL MULTIPLE VENTS FOR ADDITIONAL AREA.</p> <p><u>IF INSTALLING POWER VENT, DO NOT INSTALL RIDGE VENT</u></p>


PRE-ENGINEERED, PRE-FABRICATED WOOD TRUSSES

1. THE DESIGN, FABRICATION AND INSTALLATION OF ALL PRE-ENGINEERED, PRE-FABRICATED WOOD TRUSSES SHALL CONFORM TO THE LATEST, ADOPTED EDITIONS OF THE STANDARDS AND MATERIAL SPECIFICATIONS REFERENCED HEREIN.
2. REFERENCE STANDARDS
 - 2.1. NDS "NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION" BY THE AMERICAN FOREST & PAPER ASSOCIATION (AF&PA).
 - 2.2. TPI-1, "DESIGN STANDARDS FOR METAL PLATE CONNECTED WOOD TRUSS CONSTRUCTION" BY THE TRUSS PLATE INSTITUTE.
3. MATERIALS
 - 3.1. THE TERM "TRUSS" USED IN THIS SECTION APPLIES TO TRUSSES THAT ARE DESIGNED AND FABRICATED AS SEPARATE ENGINEERED PRODUCTS, AND DELIVERED TO THE PROJECT SITE FOR INSTALLATION.
 - 3.2. LUMBER: SPECIES PER DESIGN BY THE TRUSS MANUFACTURER, NO.2 GRADE OR BETTER, 15% MAXIMUM M.C., EXCEPT THE TRUSS MANUFACTURER MAY USE STUD-GRADE FOR WEB MEMBERS.
4. DESIGN
 - 4.1. THE TRUSS MANUFACTURER SHALL DESIGN, DETAIL, PROVIDE AND INSTALL ALL INTERNAL TRUSS COMPONENT CONNECTIONS.
 - 4.2. THE TRUSS MANUFACTURER SHALL DESIGN AND DESIGNATE ALL TRUSS-TO-TRUSS HANGERS. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL TRUSS-TO TRUSS HANGERS IN ACCORDANCE WITH THE HANGER MANUFACTURER'S SPECIFICATIONS.
 - 4.3. METAL CONNECTOR PLATES: USE GALVANIZED SHEET STEEL CONFORMING WITH ASTM A653, COATING CLASS G60. MANUFACTURE WITH HOLES, PLUGS, TEETH, OR PRONGS UNIFORMLY SPACED AND FORMED.
 - 4.4. IN ADDITION TO THE UNIFORM LOADS INDICATED BELOW, DESIGN TRUSSES FOR ALL SUPERIMPOSED DEAD LOADS INCLUDING BUT NOT LIMITED TO OVERLAY FRAMING, CHIMNEYS, MECHANICAL EQUIPMENT, ETC. DESIGN TRUSSES AND REQUIRED BRACING TO RESIST THE NET WIND UPLIFT INDICATED ON THE DRAWINGS.
 - 4.5. DESIGN OF MEMBERS AND CONNECTIONS SHALL BE PERFORMED BY A PROFESSIONAL ENGINEER, REGISTERED IN THE DISTRICT OF COLUMBIA, EXPERIENCED IN SIMILAR DESIGN, RETAINED BY THE MANUFACTURER.
 - 4.6. DESIGN BOTTOM CHORDS OF GIRDER TRUSSES FOR THE END REACTIONS OF SUPPORTED TRUSSES.
 - 4.7. DESIGN ALL TRUSSES FOR ADDITIONAL SERVICE LOADS INDICATED ON PLAN.
5. DESIGN LOADS
 - 5.1. ROOF
 - 5.1.1. TOP CHORD DEAD LOAD = 10 PSF
 - 5.1.2. TOP CHORD LIVE LOAD = 20 PSF
 - 5.1.3. BOTTOM CHORD DEAD LOAD = 10 PSF
 - 5.1.4. BOTTOM CHORD LIVE LOAD = 0 PSF
 - 5.1.5. WIND LOADING: SEE DESIGN LOADS SECTION ON SHEET S 001
 - 5.1.5.1. NET WIND UPLIFT = 8 PSF
 - 5.2. DEFLECTIONS
 - 5.2.1. ROOF
 - 5.2.1.1. MAXIMUM LIVE LOAD DEFLECTION = L/360, OR .625" MAXIMUM
 - 5.2.1.2. MAXIMUM TOTAL LOAD DEFLECTION = L/240, OR 1.0" MAXIMUM
 - 5.3. DESIGN ALL BRACING AND BRACING CONNECTIONS FOR ALL TRUSS TO CHORDS, BOTTOM CHORDS AND WEB TRUSSES. PARTICULAR ATTENTION SHALL BE GIVEN TO AREAS IN THE FINISHED STRUCTURE WHICH CONTAIN TRUSSES WITH UN-SHEATHED TOP AND/OR BOTTOM CHORD MEMBERS.
6. SUBMITALS
 - 6.1. SUBMIT TRUSS SHOP DRAWINGS WHICH EXHIBIT THE SEAL OF THE ENGINEER RESPONSIBLE FOR TRUSS DESIGN.
 - 6.2. SUBMIT LAYOUT DRAWING WHICH INDICATES THE LOCATION OF EACH TRUSS.
 - 6.3. SUBMIT HANGER CONNECTOR TYPES AND LOCATIONS.
 - 6.4. INDICATE ALL TEMPORARY AND PERMANENT BRACING REQUIREMENTS OF TRUSS MEMBERS. IN AREAS WHERE TRUSS TOP CHORDS AND/OR BOTTOM CHORDS DO NOT RECEIVE SHEATHING, INDICATE THE REQUIRED CHORD BRACING AND BRACE SPACINGS FOR ALL APPLICABLE LOAD CASES. INDICATE ANCHORAGE OF "CAP" TRUSSES AND/OR "OVERLAY" TRUSSES.

MARK	BEAM SIZE	COMMENTS
3	(2) SPF NO.2 2X10 OR BETTER	DROPPED BEAM


PLAN NOTES:

1. ROOF FRAMING TO BE PRE-ENGINEERED ROOF TRUSSES AT 24" OC, TYP UNLESS OTHERWISE NOTED.
2. 12" OVERHANGS, TYP
3. DORMERS TO SIT ON ROOF GIRDER TRUSS.
4. DORMER CONSTRUCTION TO BE THE FOLLOWING:
WALLS: SPF NO.2 2X4's AT 16" OC.
ROOF: SPF NO.2 2X4's AT 16" OC



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 **PENN & CO.**
10921 PARKSHIRE LANE
HENRICO, VA 23233
(703) 728-5779 PHONE

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AC & STEPHANIE CATEDRAL
4337 SHACKLEFORD RD.
RICHMOND, VA 23234
804-874-2030

OWNER

APPROVED

ACTIVITY

SATISFACTORY TO DATE

DES ---	DRW JRP3	CHK JRP3
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ATTACHED FOUR SQUARE HOMES

4337A-4337B SHACKLEFORD ROAD

PROPOSED ROOF PLAN AND NOTES

SCALE

PROJECT NO.: 2018-0

CONSTR. CONTR. NO.

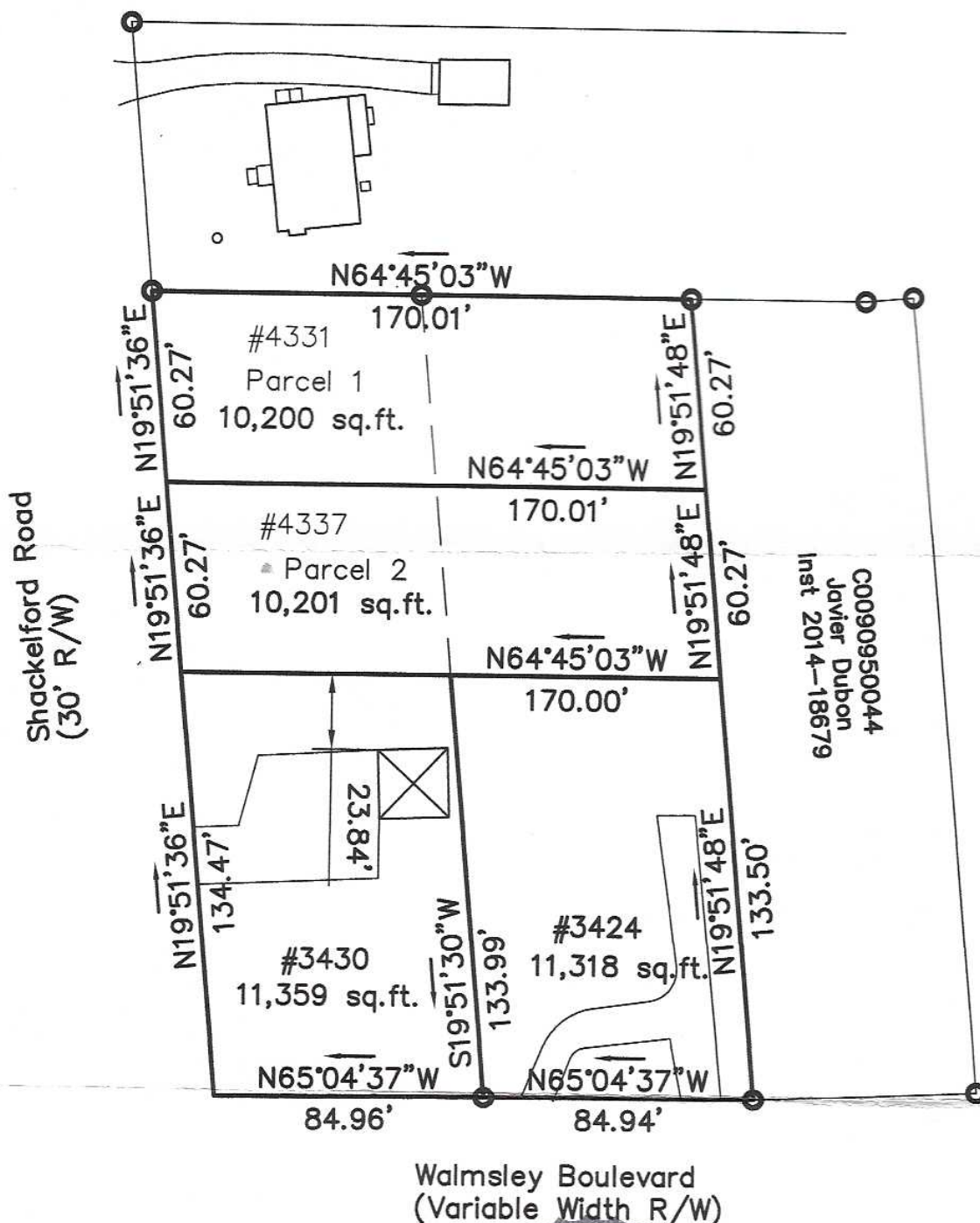
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OF

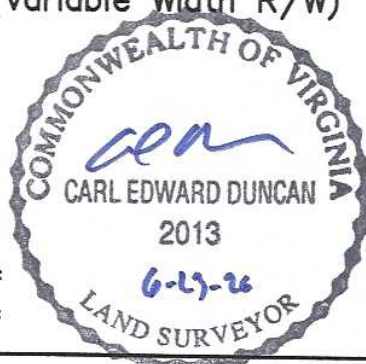
A-103

NORTH



Plat showing
two new parcels
4331 Shackelford Road
and 4337 Shackelford Road
Walley Dorsey, Jr.

Manchester District
City of Richmond



C. E. Duncan & Associates, Inc.	
2809 Rocky Oak Road POWhatan, VIRGINIA 23139	
(804) 598-8240 Fax (804) 598-9240	
DATE: 3/24/19	SCALE: 1"=50'
DRAWN BY: CED JOB NO.: 15-0497	