

Home Energy Rating Certificate

Property

Highland 543 C
 Highland Homes
 12306 Thorntonhall Drive
 Richmond, TX 77407

HERS

Rating Type: Confirmed
 Rating Date: 10/14/2019
 Registry ID: 301021825

Certified Energy Rater: Phil Cox
 Rating Number: 053020190632YK

HERS Index: 60

Efficient Home Comparison: 40% Better

General Information

Conditioned Area	2830 sq. ft.	House Type	Single-family detached
Conditioned Volume	31064 cubic ft.	Foundation	Slab
Bedrooms	3		

Mechanical Systems Features

Heating: Fuel-fired air distribution, Natural gas, 80.0 AFUE.
 Cooling: Air conditioner, Electric, 16.0 SEER.
 Water Heating: Instant water heater, Natural gas, 0.82 EF, 0.0 Gal.
 Duct Leakage to Outside: 117.00 CFM25.
 Ventilation System: Supply Only: 130 cfm, 38.0 watts.
 Programmable Thermostat: Heat=Yes; Cool=Yes

Building Shell Features

Ceiling Flat	R-30.0 w/RB	Slab	R-0.0 Edge, R-0.0 Under
Sealed Attic	NA	Exposed Floor	NA
Vaulted Ceiling	R-21.0 w/RB	Window Type	U-Value: 0.330, SHGC: 0.240
Above Grade Walls	R-13.2	Infiltration Rate	Htg: 1790 Clg: 1790 CFM50
Foundation Walls	NA	Method	Blower door

Lights and Appliance Features

Interior Fluor Lighting (%)	0.0	Range/Oven Fuel	Natural gas
Interior LED Lighting (%)	100.0	Clothes Dryer Fuel	Electric
Refrigerator (kWh/yr)	550	Clothes Dryer CEF	2.62
Dishwasher Energy Factor	0.65	Ceiling Fan (cfm/Watt)	110.40

Estimated Annual Energy Cost

Use	MMBtu	Cost	Percent
Heating	25.7	\$202	13%
Cooling	8.5	\$283	18%
Hot Water	8.7	\$64	4%
Lights/Appliances	24.1	\$764	49%
Photovoltaics	-0.0	\$-0	-0%
Service Charges		\$239	15%
Total	67.0	\$1553	100%

Criteria

This home meets or exceeds the minimum criteria for the following:
 2006 International Energy Conservation Code
 2009 International Energy Conservation Code
 2015 IECC Performance Path
 2018 IECC Performance Path

Burgess Construction Consultants

Company
 101 W. Renner Rd/Suite 400
 Richardson, TX 75082
 214-888-7300
 214-888-7266
 Certified Energy Rater:

REM/Rate - Residential Energy Analysis and Rating Software v15.7.3

This information does not constitute any warranty of energy costs or savings. © 1985-2018 NORESCO, Boulder, Colorado.
 The Home Energy Rating Standard Disclosure for this home is available from the rating provider.

HOME CERTIFIED TO MEET THE PROVISIONS OF THE
2015 INTERNATIONAL ENERGY CONSERVATION CODE

This home built at
12306 Thorntonhall Drive, Richmond, TX
by Highland Homes

exceeds the minimum requirements for the 2015 International
Energy Conservation Code

Building Features

Ceiling Flat	R-30.0 w/RB	Duct	R-6.0
Sealed Attic:	NA	Duct Leakage to Outside:	117.00 CFM @ 25 Pascals
Vaulted Ceiling	R-21.0 w/RB	Total Duct Leakage:	117.00 CFM @ 25 Pascals
Above Grade Walls	R-13.2	Infiltration:	Htg: 1790 Cfg: 1790 CFM50
Foundation Walls	NA	Window	U-Value: 0.330, SHGC: 0.240
Exposed Floor	NA	Heating	Fuel-fired air distribution, Natural gas, 80.0 AFUE.
Slab	R-0.0 Edge, R-0.0 Under	Cooling	Air conditioner, Electric, 16.0 SEER.
		Water Heating	Instant water heater, Natural gas, 0.82 EF, 0.0 Gal.

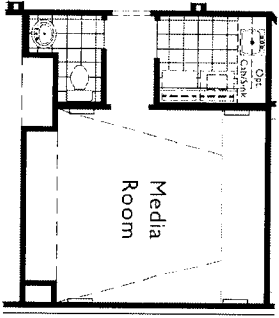
The organization below certifies that the proposed building design described herein is consistent with the building plans, specifications, and other calculations submitted with the permit application. The proposed building has been designed to meet the 2015 IECC requirements in compliance with Chapter 4 based on Climate Zone 2A and with all mandatory requirements.

Name | Phil Cox
Organization | Burgess Const Consultants, Inc

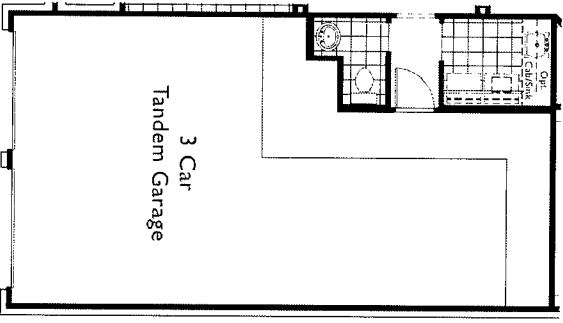
Signature | *P.C.*
Date | 14 October 2019

The 2015 International Energy Conservation Code is a registered trademark of the International Code Council, Inc. ("ICC").
No version of this software has been reviewed or approved by ICC or its affiliates.
REM/Rate - Residential Energy Analysis and Rating Software v15.7.3

PLAN 543

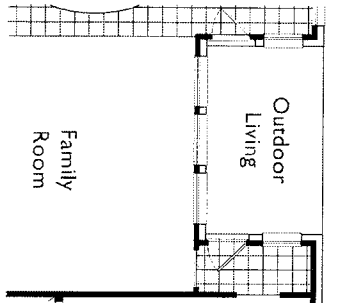


Media Room ~ Powder Bath Option
in lieu of Bedroom #4 ~ Full Bath
2600-38

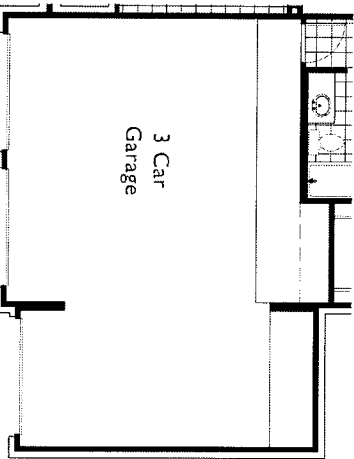


3 Car Tandem Garage ~ Powder Bath Option
in lieu of Bedroom #4 ~ Full Bath

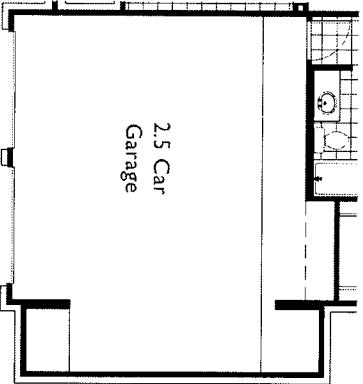
1550-85
1550-72 with 3.5 Car Tandem Garage
1550-78 with 4 Car Tandem Garage



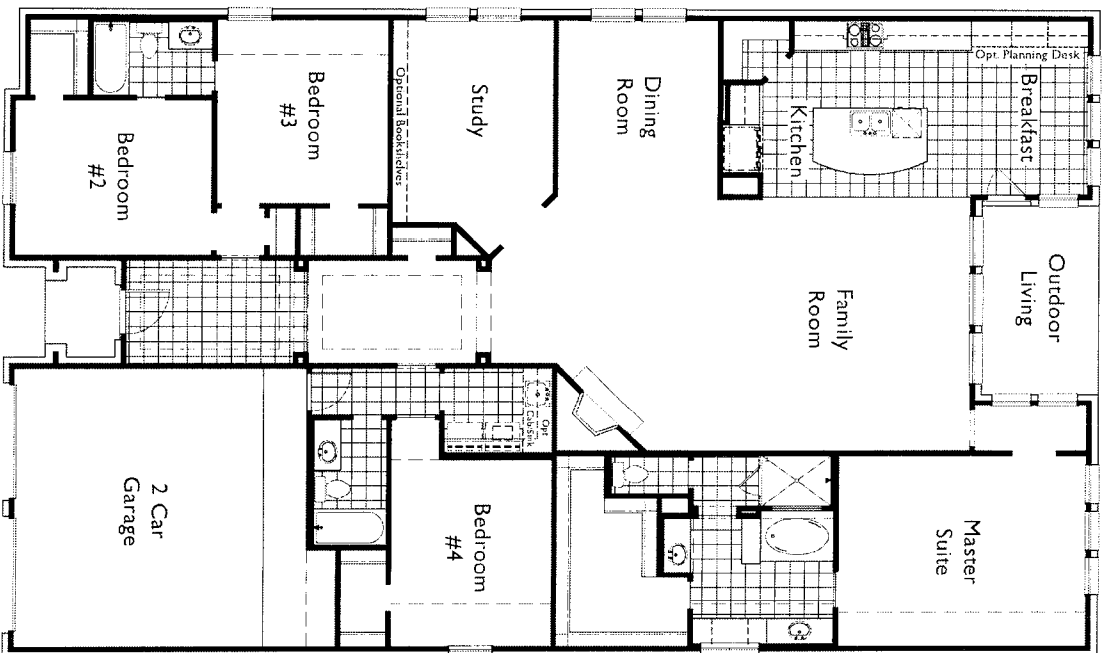
French Door to Master Suite Option
1400-21



3 Car Garage Option
1550-00



2.5 Car Garage Option
1550-40

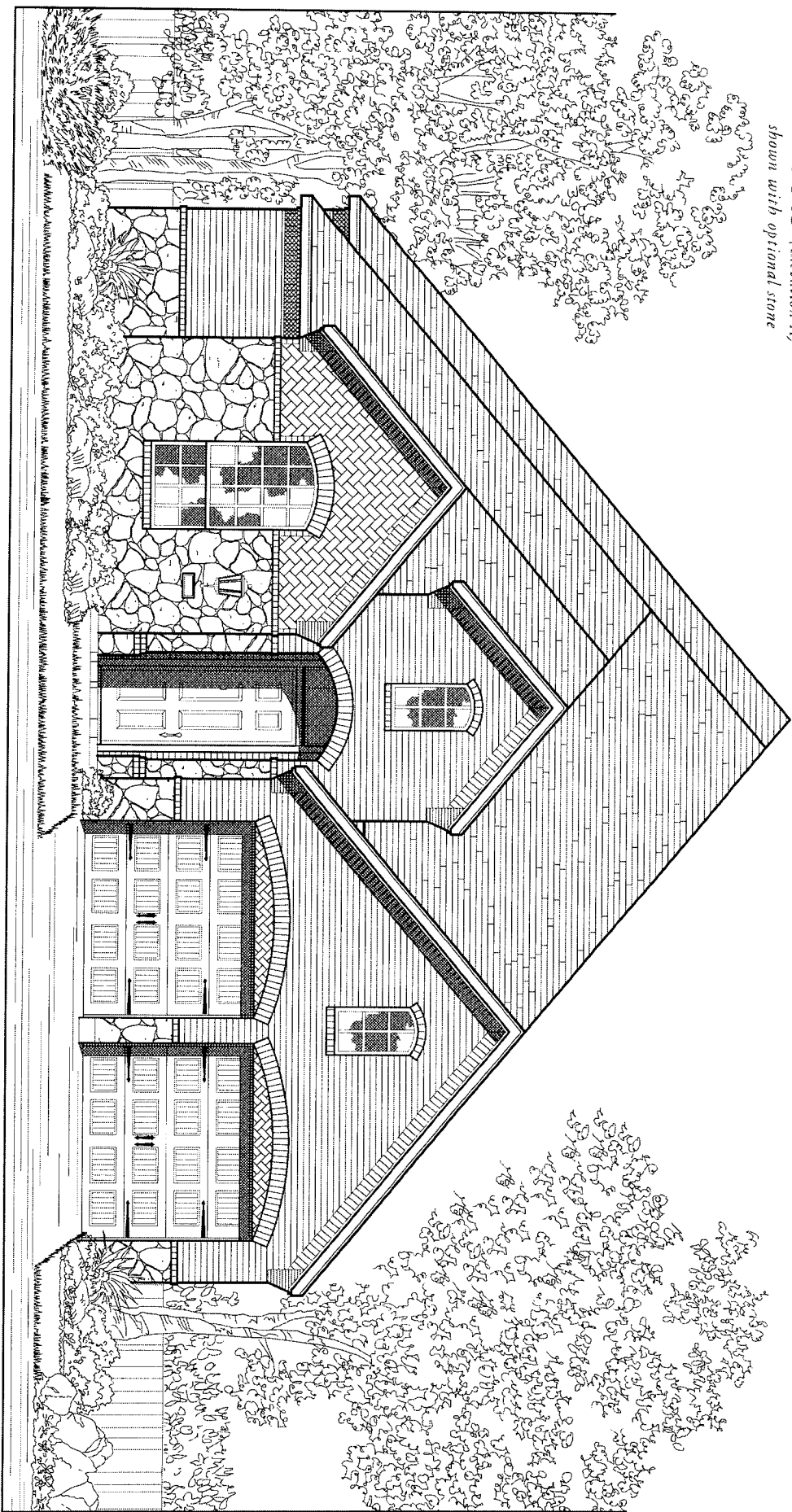


One Story Plan



Price, plan, specifications, square footage and availability subject to change without notice or prior obligation. Square footage is approximate and may vary upon elevation and/or option selected. Elevation materials may vary per subdivision requirements. Please see your Sales Consultant for more information.

PLAN 543 (Elevation A)
shown with optional stone



HIGHLAND
H O M E S



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543,000 (A, C, D, E)
1,012/1,612 Pch
04/10/15