## Mansions

and their influence on more modest architecture

All photographs by J. Wunderlich unless noted otherwise



2011



J. Wunderlich PhD

B.S. Architectural Engineering (U. Texas at Austin)

Plus 2 years of Urban Design (U. California, San Diego)

## Agenda

- Mansion & castle examples
  - Reference:
    - "Buildings Across Time" 4th edition

- Local mansion examples
  - Mansion-inspired designs
- One personal design
  - Mansion-inspired



## CHINA



Image from: <a href="http://www.cen-se.com.cn/woodenhouse/beijing\_1\_4.jpg">http://www.cen-se.com.cn/woodenhouse/beijing\_1\_4.jpg</a>

#### **CHINA**

- From 6<sup>th</sup> century
- Interior Freedom in plan
- Timber Post & Beam with complex decorative joinery
- Buildings around courtyard
- Axial arrangement, formal cues, sequencing to establish dominance
- Building placement according to Confucian ideals of hierarchy and Taoist traditions with respect to natural forces
  - <u>FENG SHUI</u> is an extension of Taoist principles
- Understanding of sun-angles, wind, and microclimates





### **JAPAN**

### Katsura Imperial Villa Kyoto Japan, circa 1616-60



### JAPAN (from 1600's)

- Towns:
  - Row houses with shops along street
  - Wooden posts on stone foundations; planked-covered gabled roofs. Walls of light-weight screening. Street-level windows above eye level for privacy
  - Small gardens behind house
- In countryside:
  - "Minka" (wooden folk house)
  - May shelter animals as well as people
  - Dirt floors or raised wood platforms
  - Roofs thatched, bamboo, or wood shingles
  - "Tatami" (straw floor mats) determine room dimensions
- Simplicity, artistry, and attention to detail
  - Inspired Frank Lloyd Wright
- Architecture reflects Japanese qualities of composure and repose (a state of rest, sleep, or tranquility)

## Japan = Tradition + Hi Tech + Group Harmony ("Wa")

















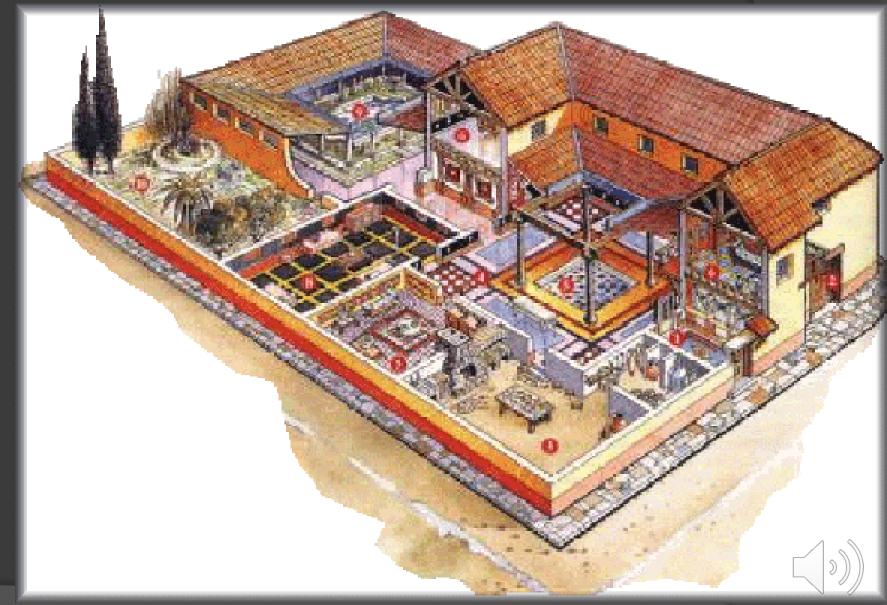
### **ITALY**

#### Roman atrium house



### **ITALY**

### Roman atrium house



## ITALY Palladian Villa Rotunda, Vicenza



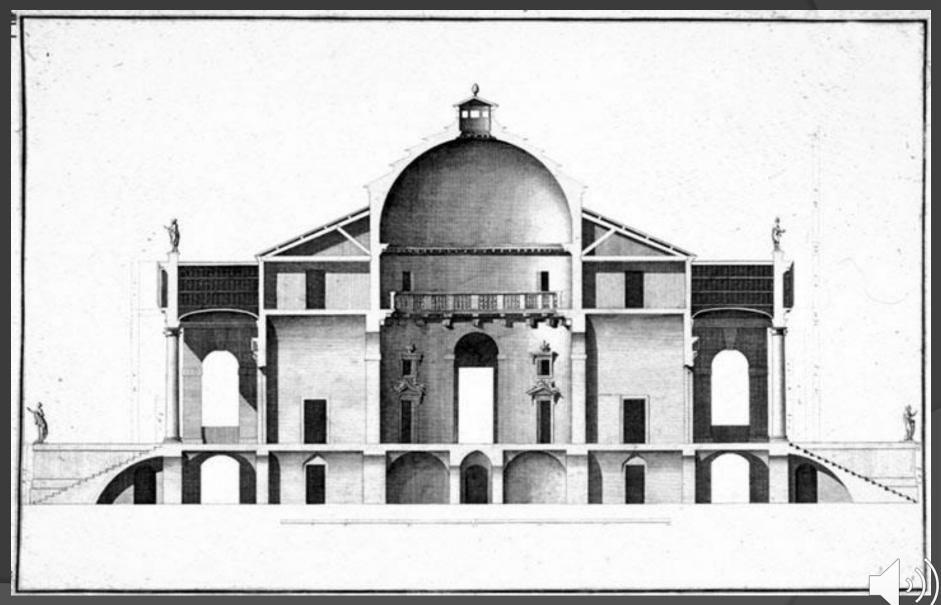
### **ITALY**

## Palladian Villa Rotunda, Vicenza

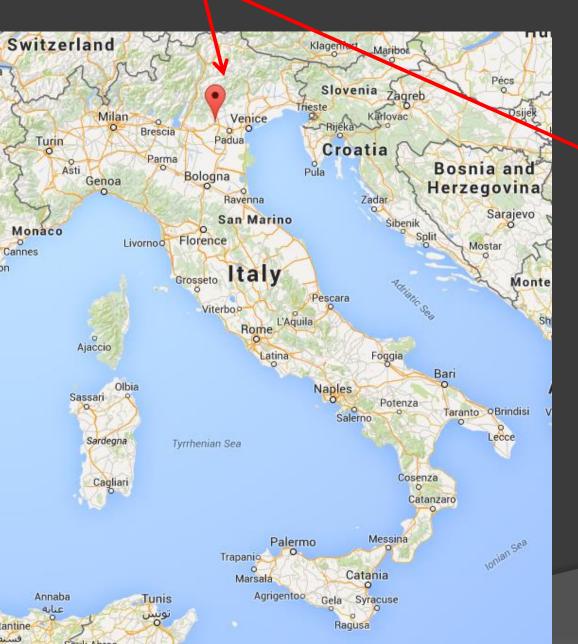


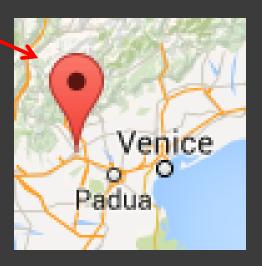
## ITALY

## Palladian Villa Rotunda, Vicenza



# Vicenza Italy is near Padua ("Padova)" and Venice ("Venezia") All part of the Venetian Empire (600's to 1700's AD)







## ITALY Venice



# ITALY Padua ("Padova)"















Basilica of Saint Anthony 1310 AD

# GERMANY Hohenzollern Castle, Stuttgart



### GERMANY Neuschwanstein Castle, Bavaria



## ENGLAND

### Windsor Castle



# **ENGLAND**Windsor Castle







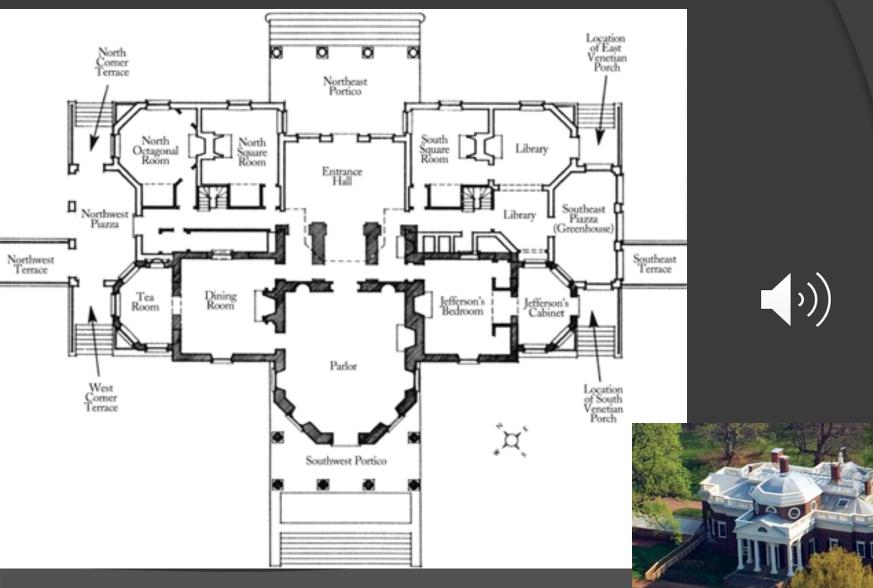
Monticello, Charlottesville Virginia, 1770 AD Thomas Jefferson's Home



### Monticello, Thomas Jefferson's Home



#### Monticello, Thomas Jefferson's Home



Monticello, Thomas Jefferson's Home

Inspired by the Pantheon in Rome circa 125 CE (AD)





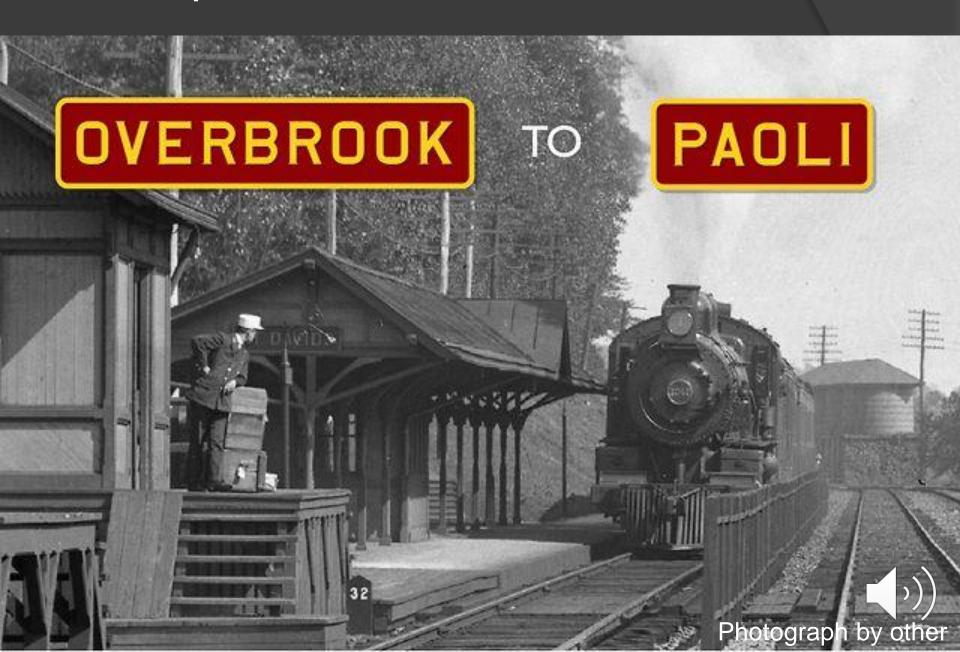


## Local (regional) Mansion Examples

Philadelphia "Main Line"

- Country estates west of city
- Accessed by Main Line of railroad tracks

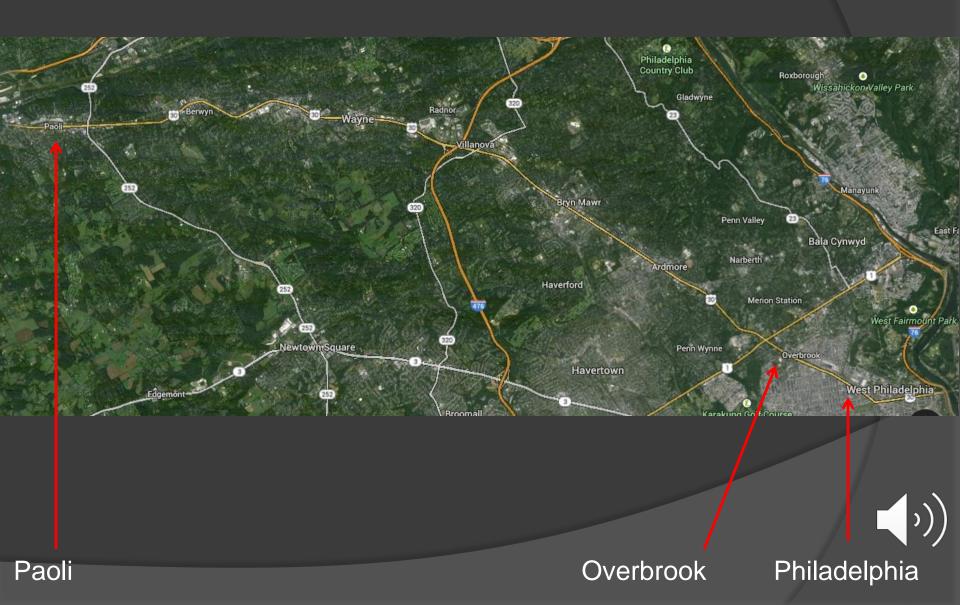
## Philadelphia Main Line



# Philadelphia Main Line rails continue to Elizabethtown



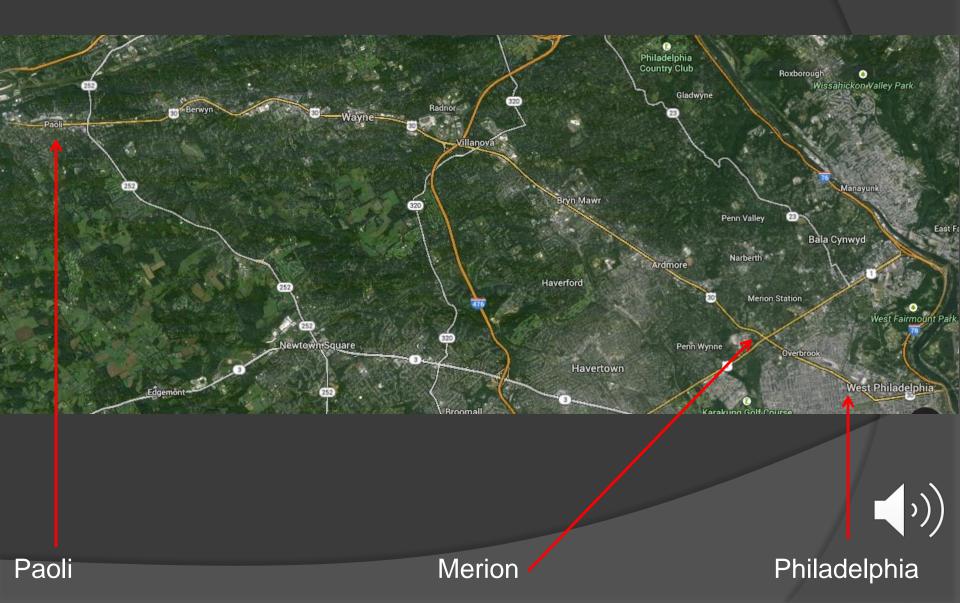
## Philadelphia "Main Line"



## Philadelphia Main Line (Overbrook station)



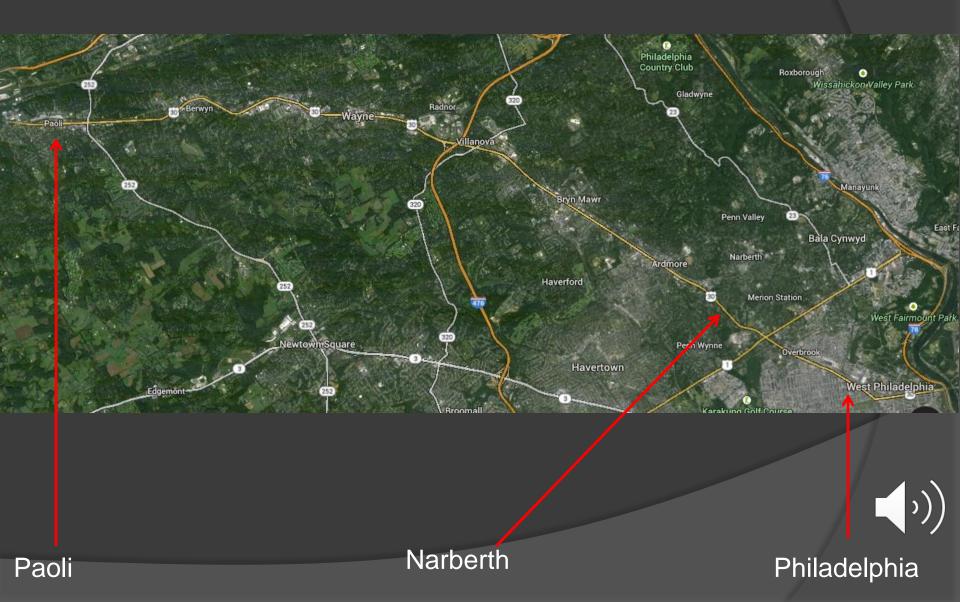
## Merion



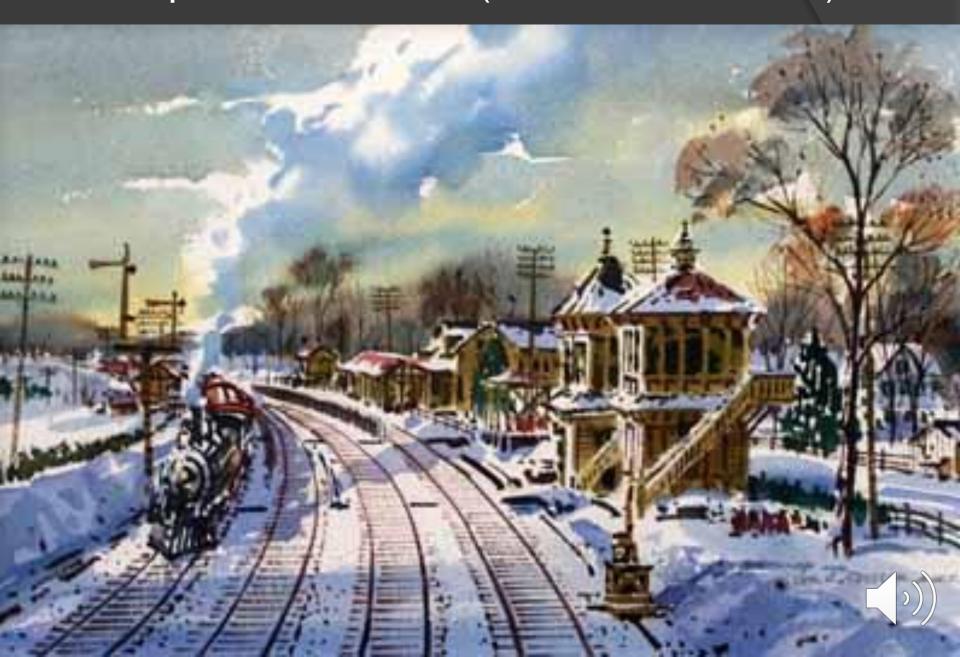
## Philadelphia Main Line (Merion station)



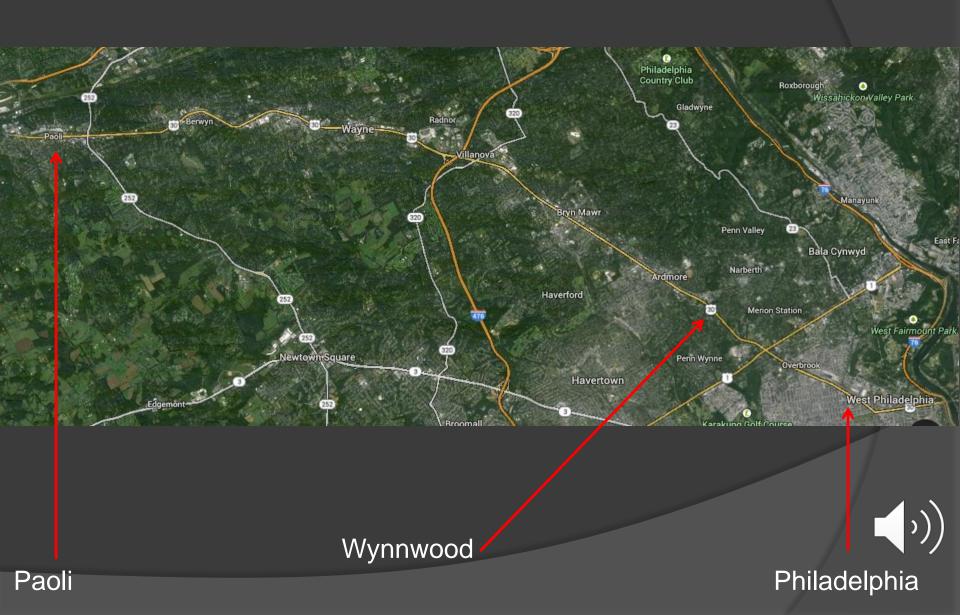
## Narberth



## Philadelphia Main Line (Narberth station)



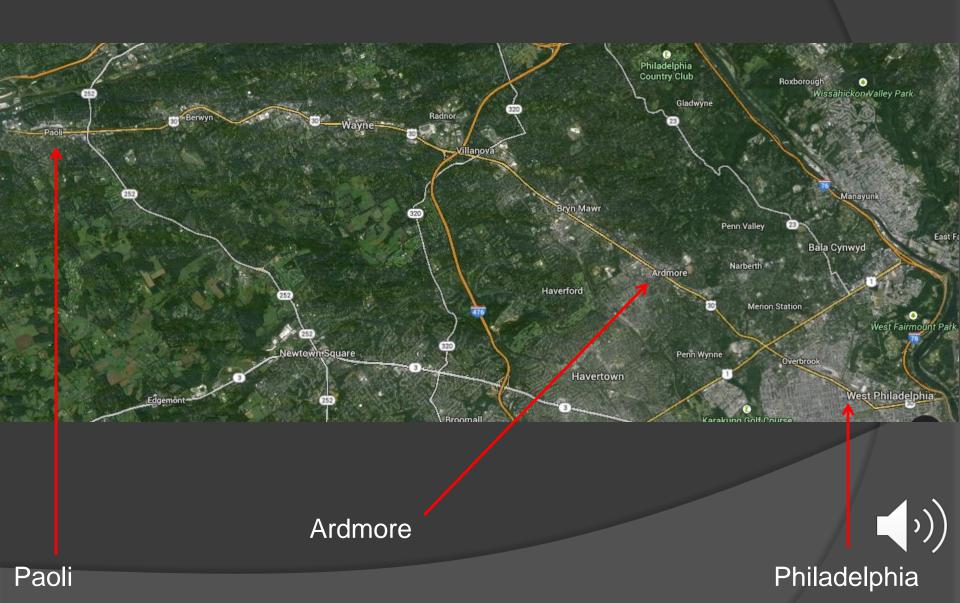
## Wynnwood



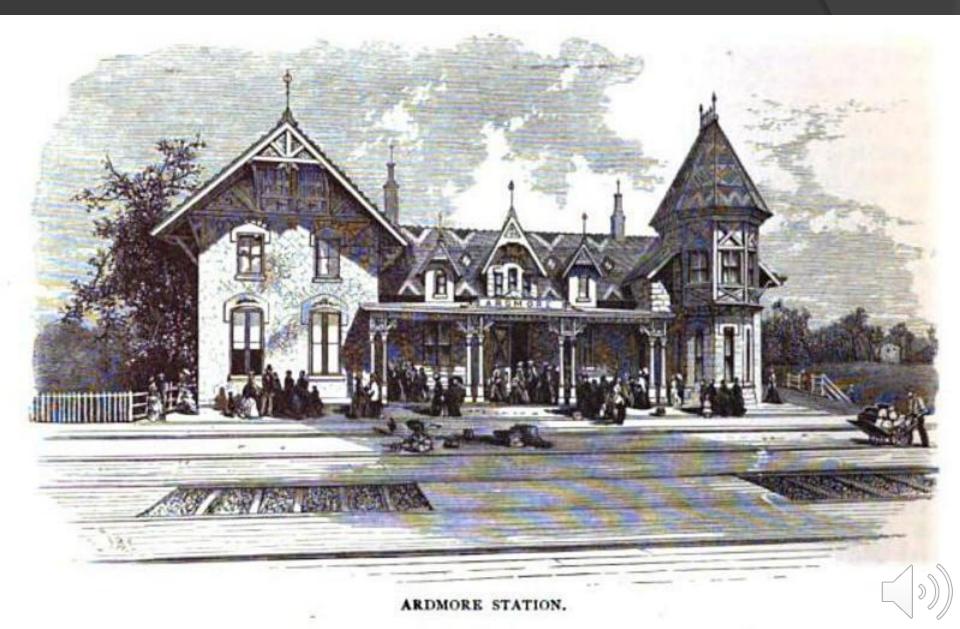
# Philadelphia Main Line (Wynnwood station)

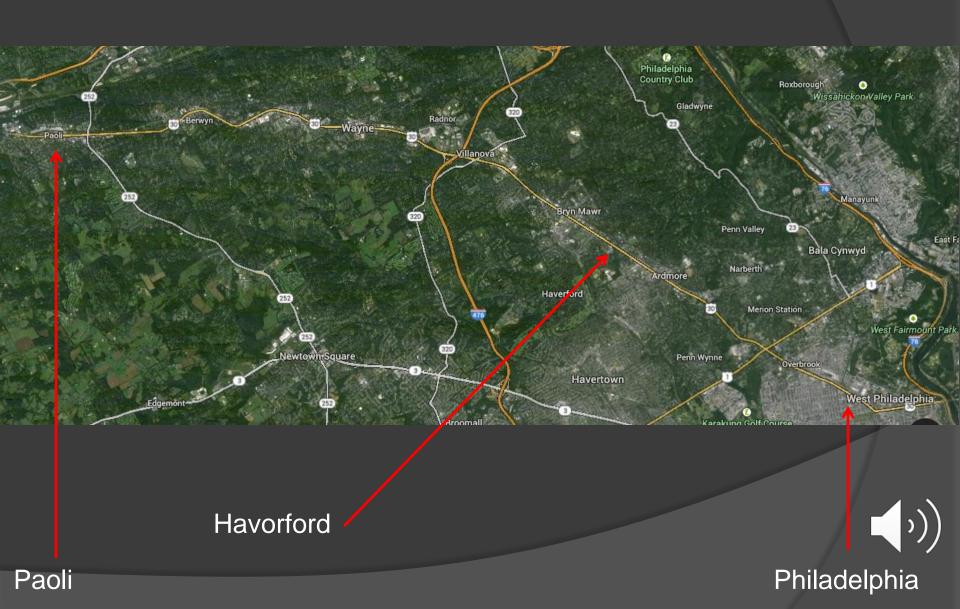


## Ardmore



## Philadelphia Main Line (Ardmore station)





## Philadelphia Main Line (Haverford station)

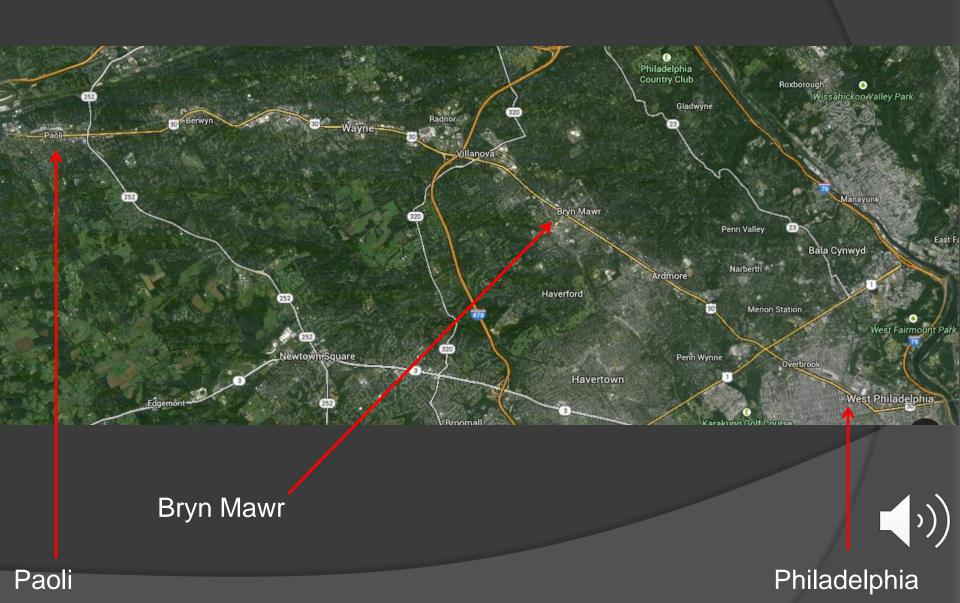


- Mansion repurposed as retirement housing "The Quadrangle"

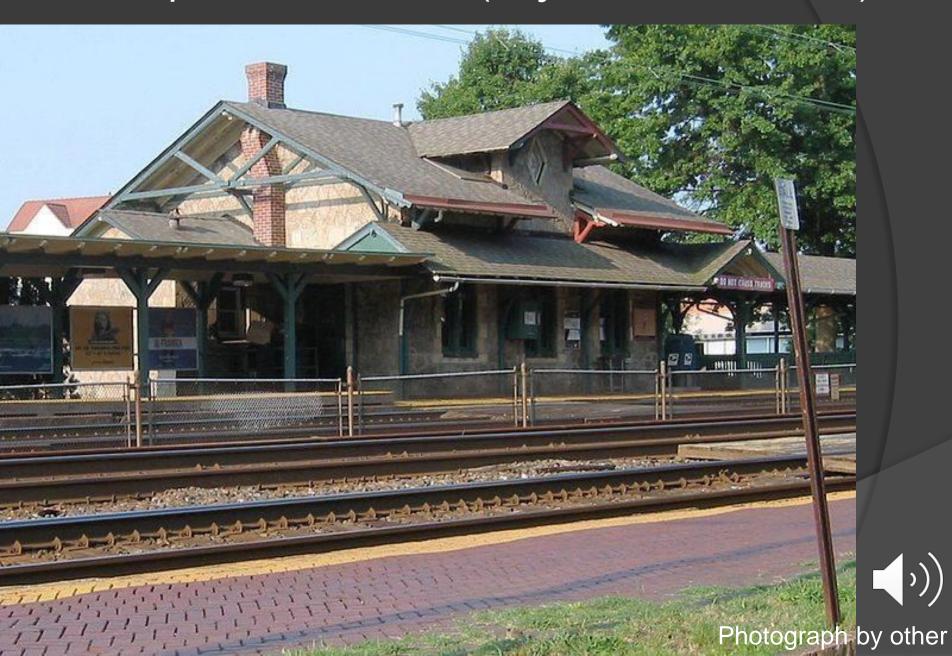








## Philadelphia Main Line (Bryn Mawr station)



- Mansion repurposed as an elementary school "Sacred Heart Academy"



- Mansion repurposed as an elementary school "Saint Aloysius Academy"



- Mansion repurposed as an elementary school "Saint Aloysius Academy"















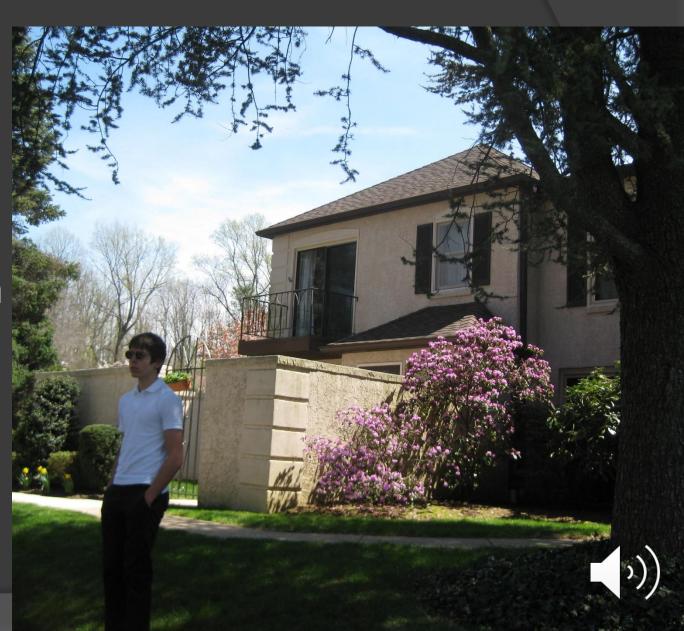




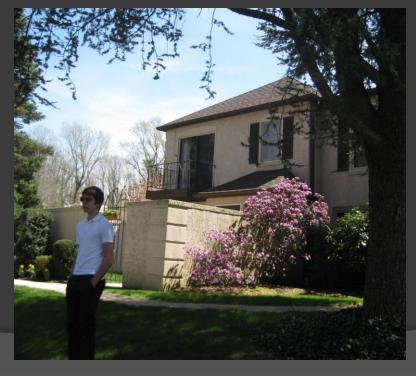
This Mansion is now surrounded by a condominium complex



Condominium



# Bryn Mawr Condominium design influenced by mansion





Bryn Mawr

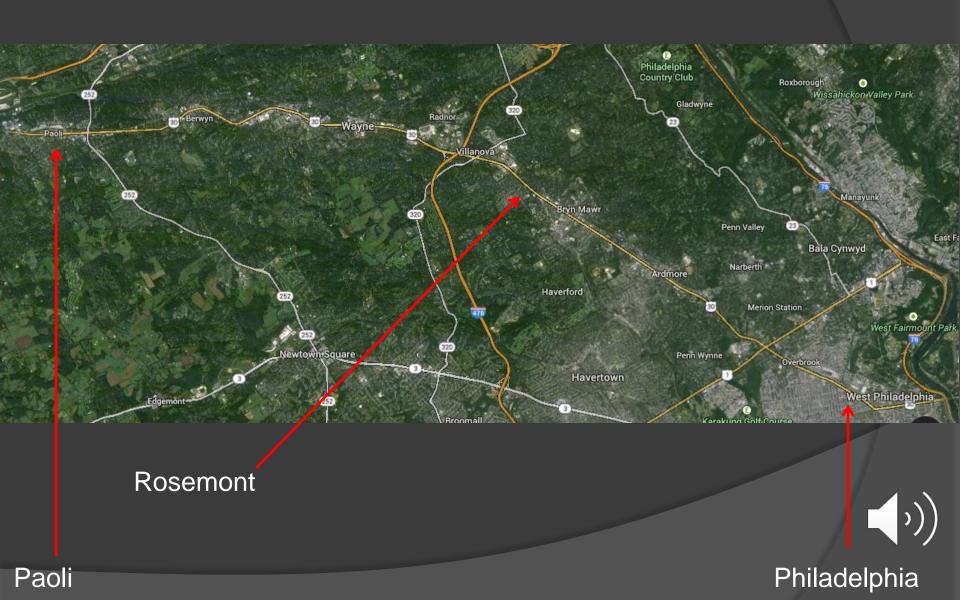
## A remaining gate-house to a torn-down mansion



Bryn Mawr

#### A remaining gate-house to a torn-down mansion





# Philadelphia Main Line (Rosemont station)

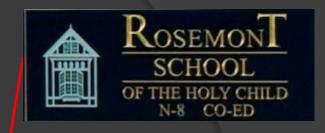


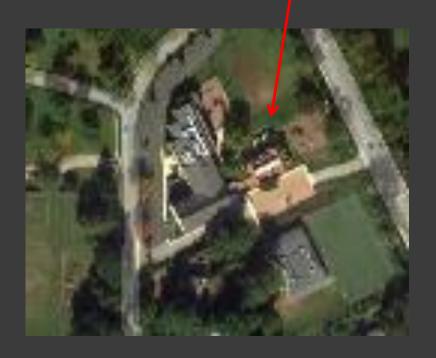




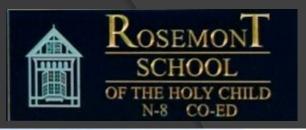
Rosemont College



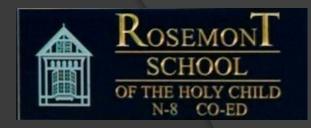


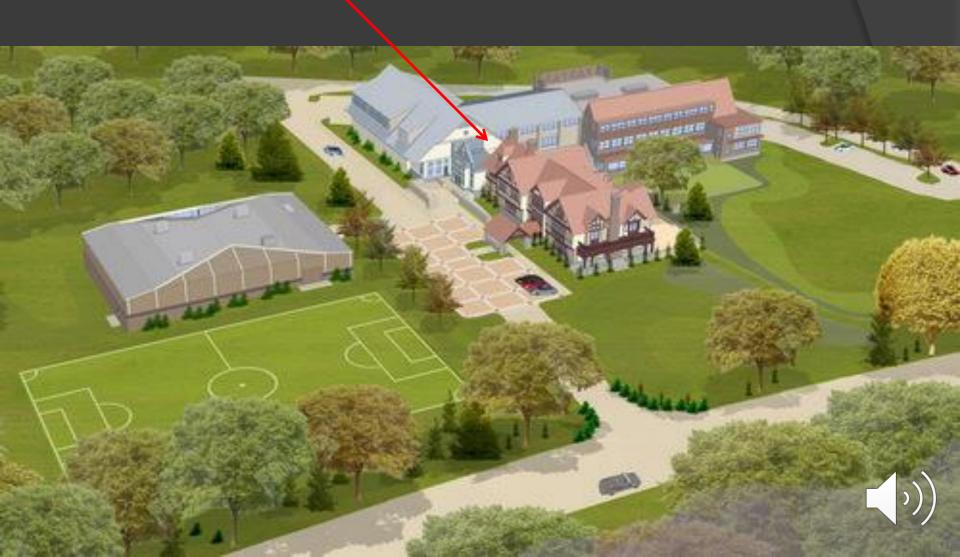


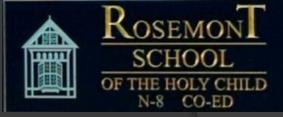




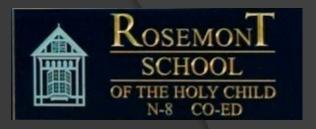


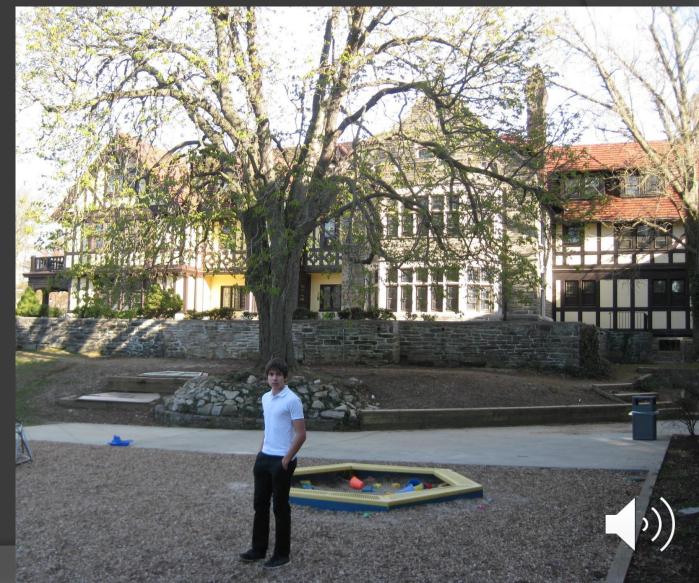


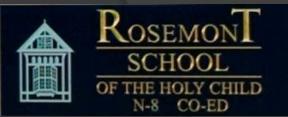




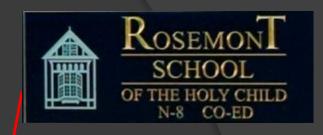














Rosemont College





Rosemont College



Repurposed Mansion

#### Rosemont College

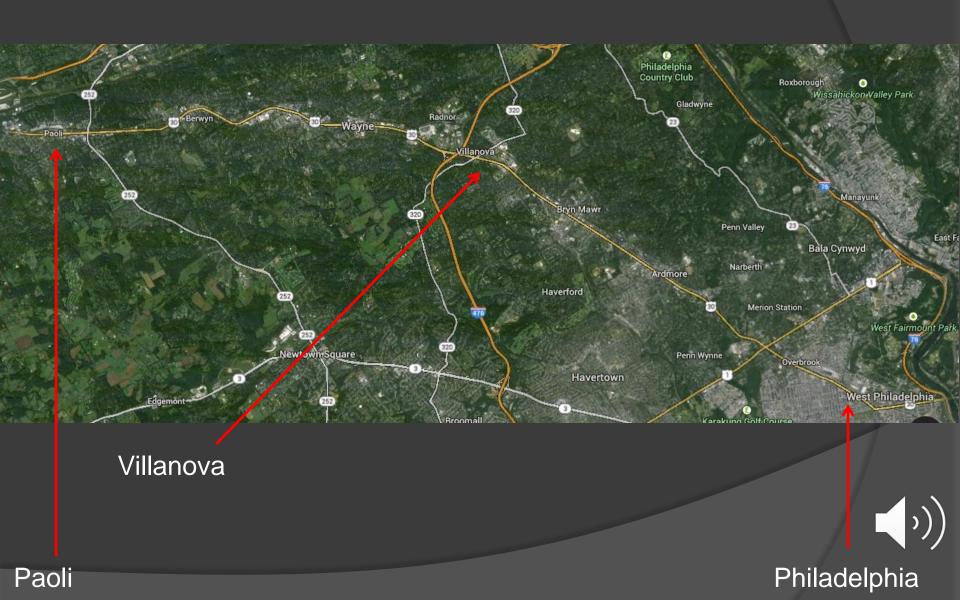
Video: http://www.youtube.com/watch?v=UiKEc4VxAvA





Photograph by other

## Villanova



## Philadelphia Main Line (Villanova station)



# Villanova University Chapel



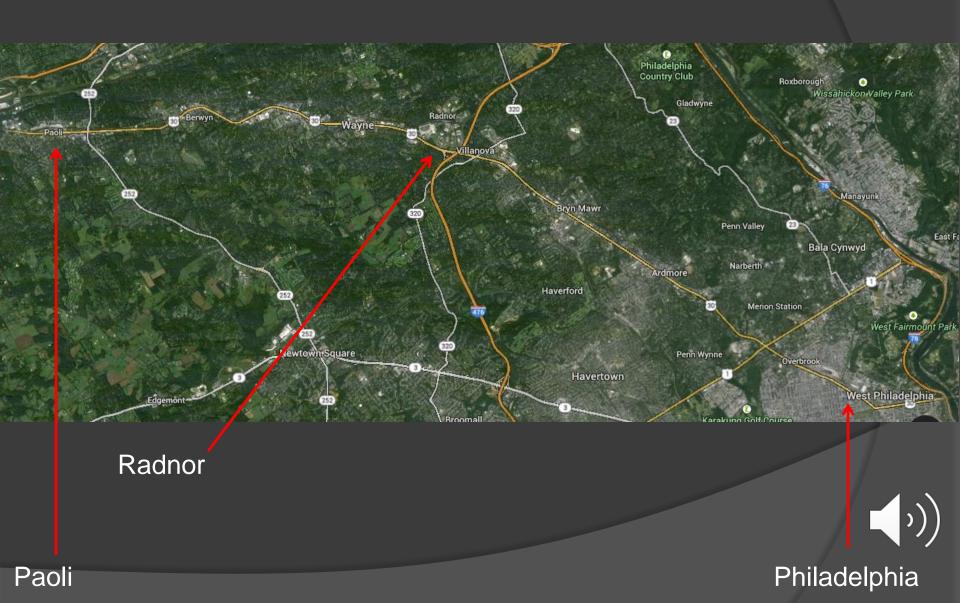


## Villanova: Academy-notre Dame De Namur

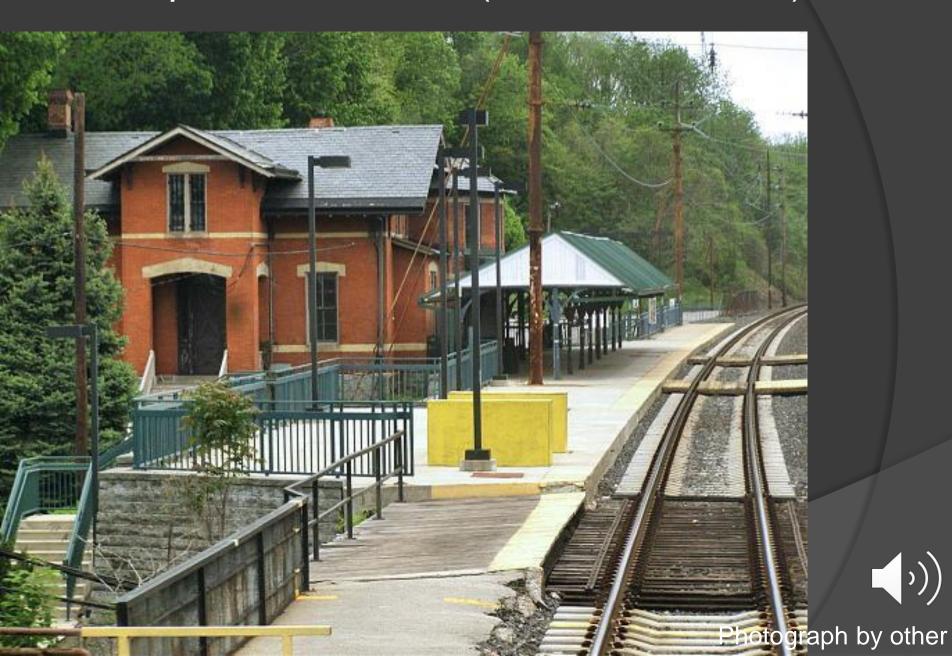
Repurposed Mansion



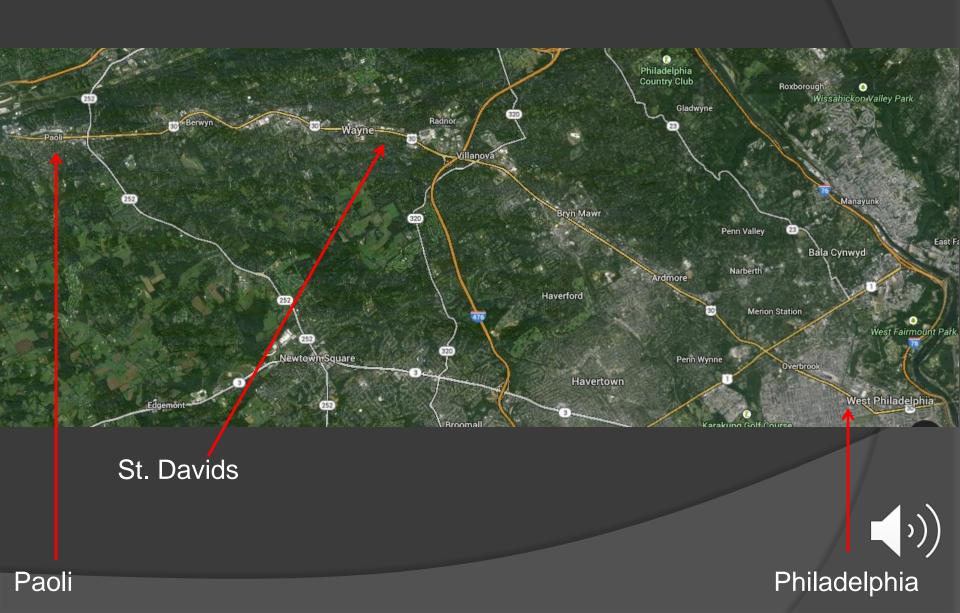
## Radnor



# Philadelphia Main Line (Radnor station)



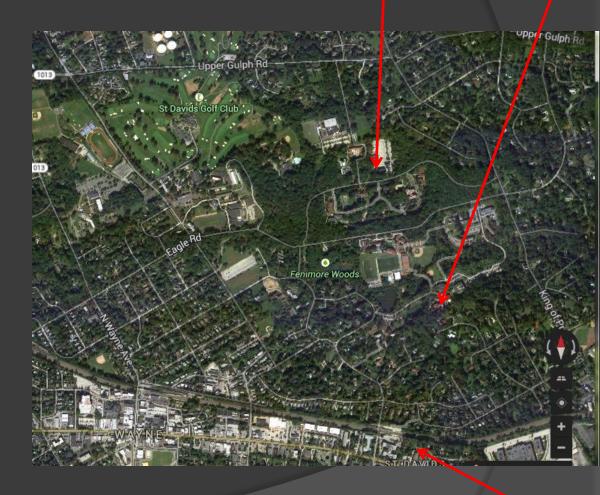
## St. Davids



# Philadelphia Main Line (St. Davids station)

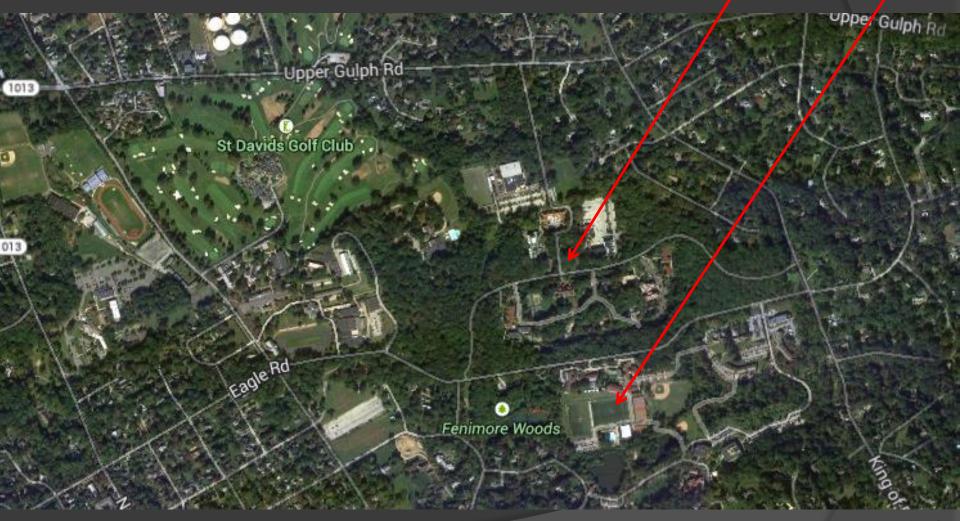


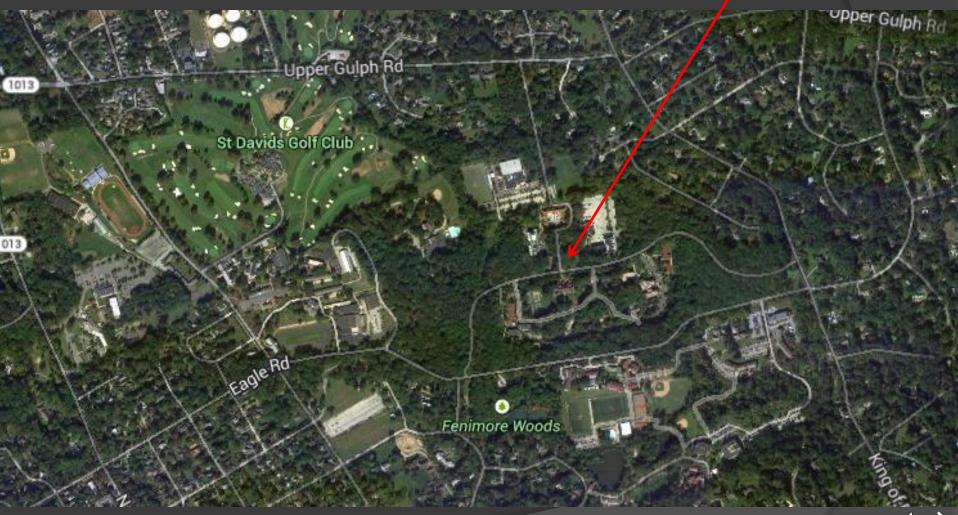
#### **Eastern University**

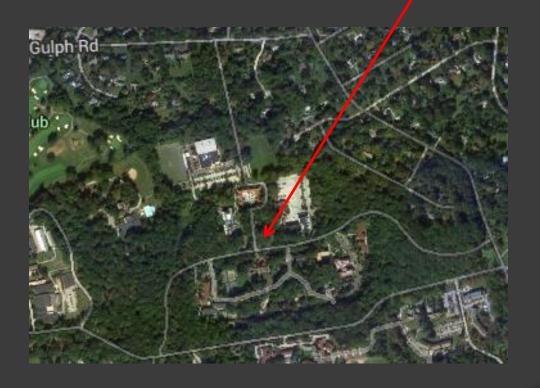




#### **Eastern University**



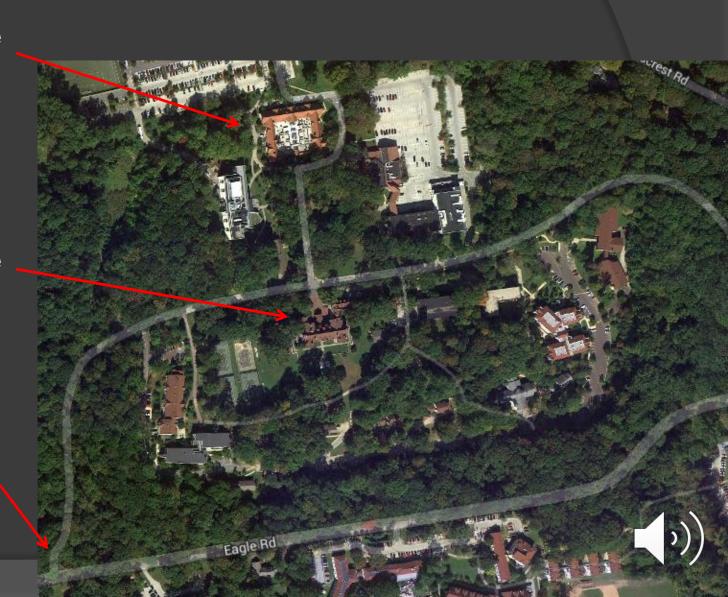




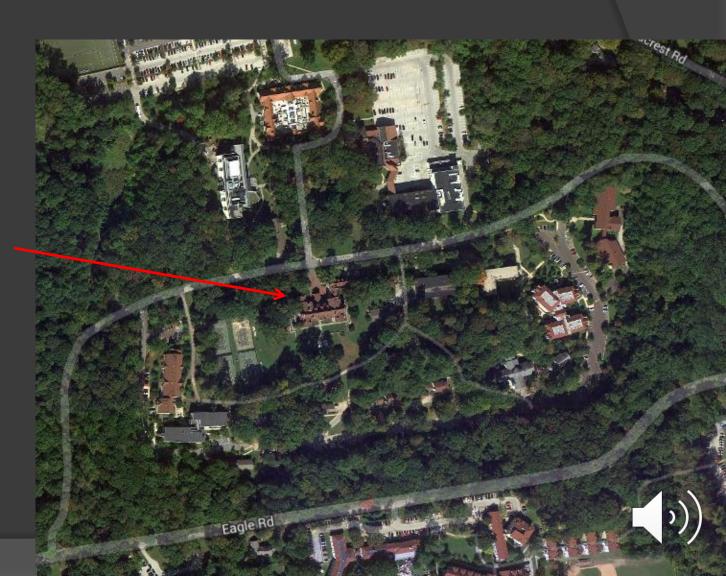
Cabrini College stables of original estate

Cabrini College mansion of original estate

Cabrini College gate house of original estate



Cabrini College mansion of original estate



Cabrini College mansion of original estate





Cabrini College mansion of original estate



#### Cabrini College in St. Davids, PA

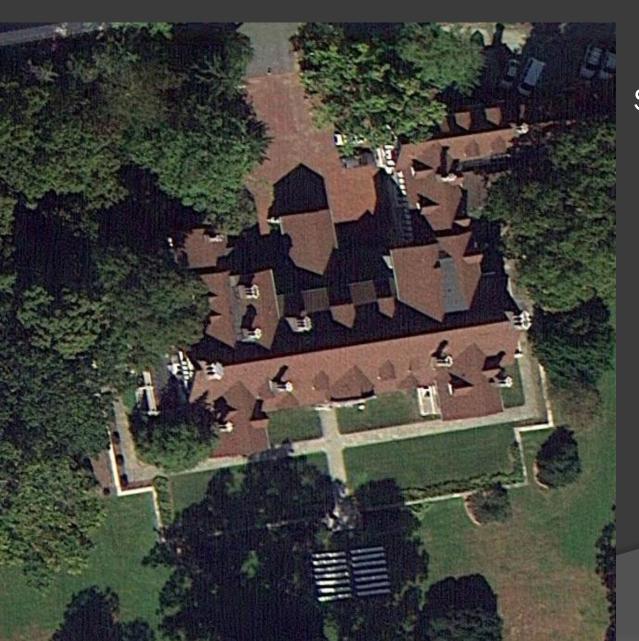
- Originally a Philadelphia "Main Line" estate ("Woodcrest") in 1907
- Architect Horace Trumbauer 1868-1938
- Elizabethan -Tudor Style



Be inspired by something grand

- Scale down to reality
  - But be loyal to style, quality, and details

- Conform to environment
  - Terrain, trees, climate, architectural vernacular



SITE PLANNING AND LANDSCAPE ARCHITECTURE

Photograph by other







# TERRACED GARDEN











#### **BRICK PAVERS**





#### WALLED COURTYARD





PORTICO













**ROOF GABLES** 





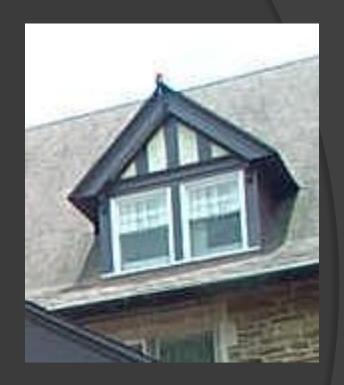


#### DORMERS

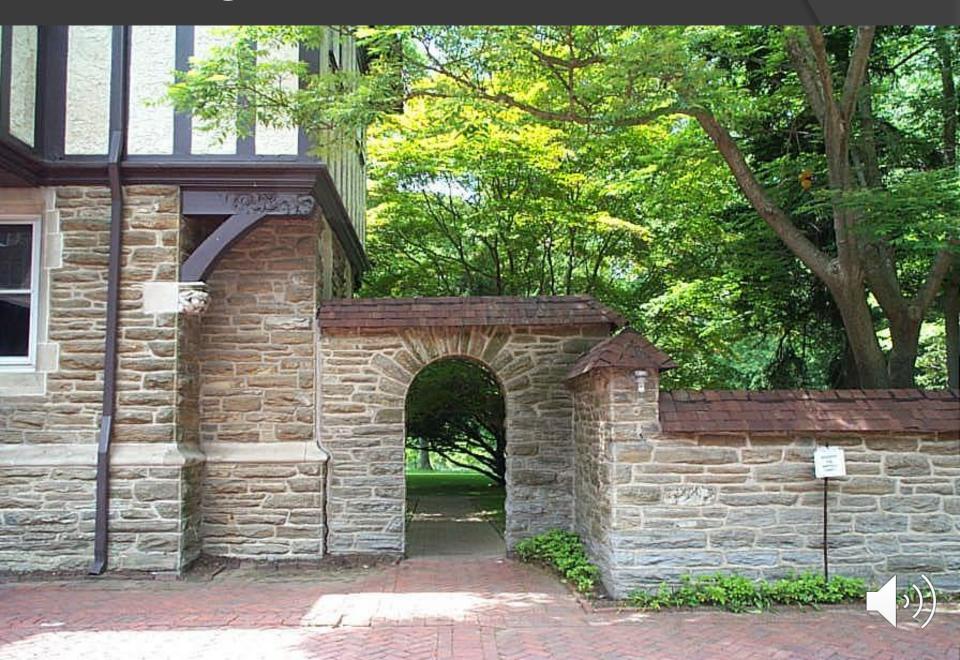




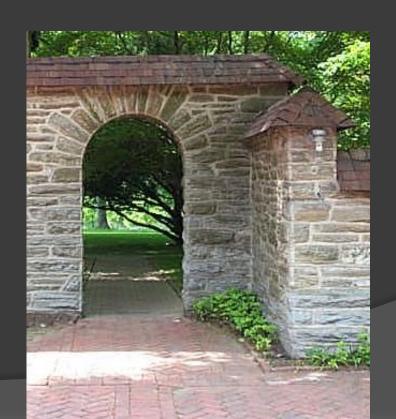
DORMERS







# ARCH









PORCH





ENCLOSED PORCH



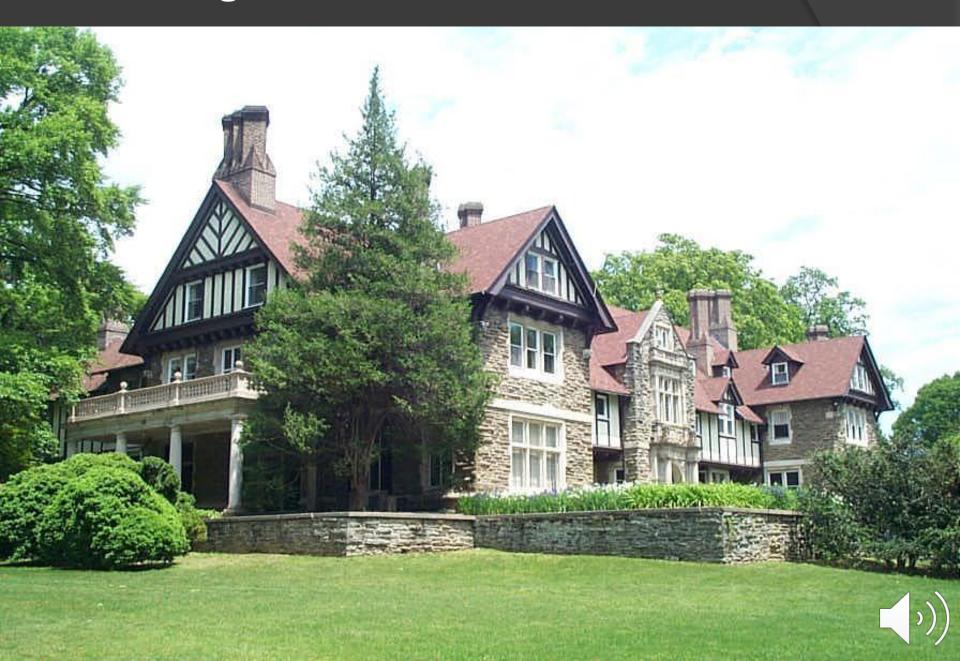
ENCLOSED PORCH



BALCONY







BANKS OF WINDOWS





BANKS OF WINDOWS







WINDOWS FOLLOWING STAIRS

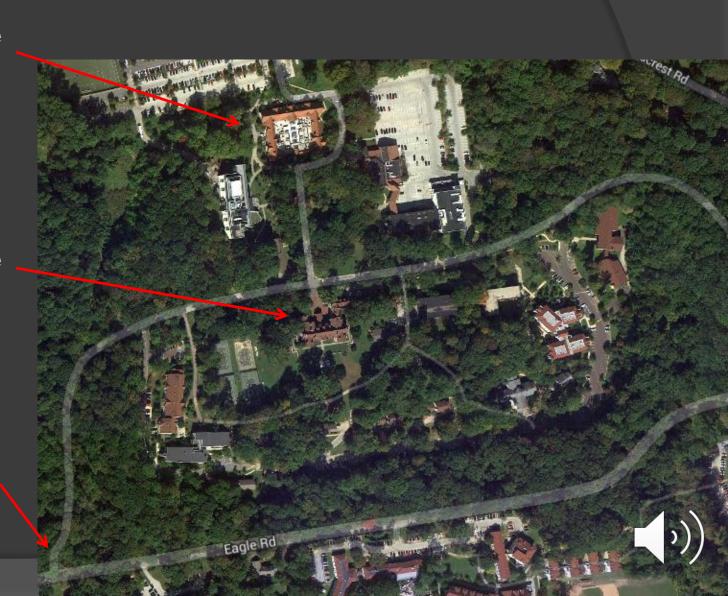




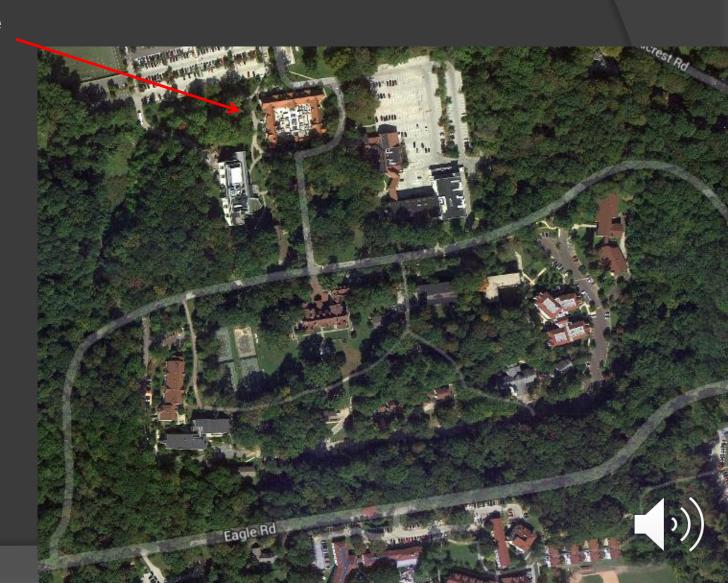
Cabrini College stables of original estate

Cabrini College mansion of original estate

Cabrini College gate house of original estate



Cabrini College stables of original estate



Cabrini College stables of original estate



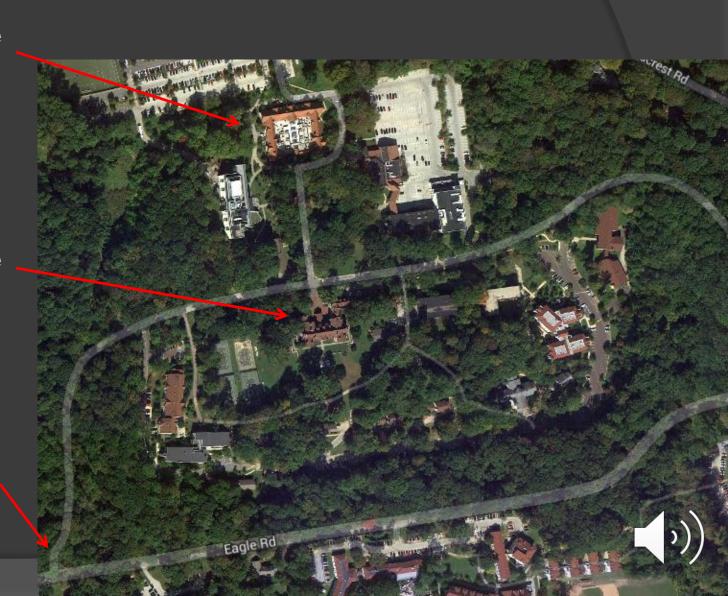
Cabrini College stables of original estate



Cabrini College stables of original estate

Cabrini College mansion of original estate

Cabrini College gate house of original estate



Cabrini College gate house of original estate

Cabrini College gate house of original estate

#### MINI-MANSION





#### Nearby house resembling Cabrini College Mansion

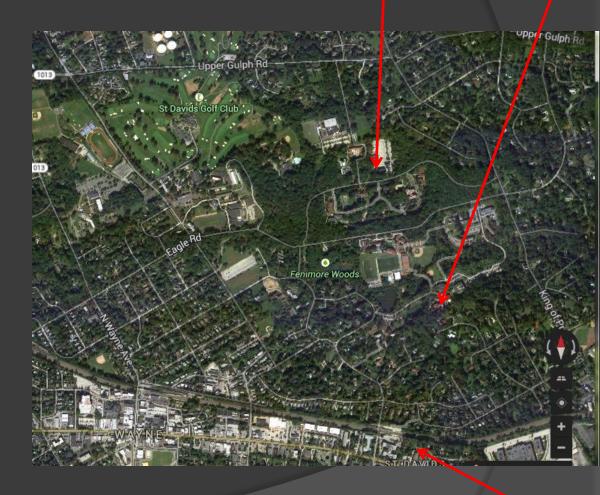






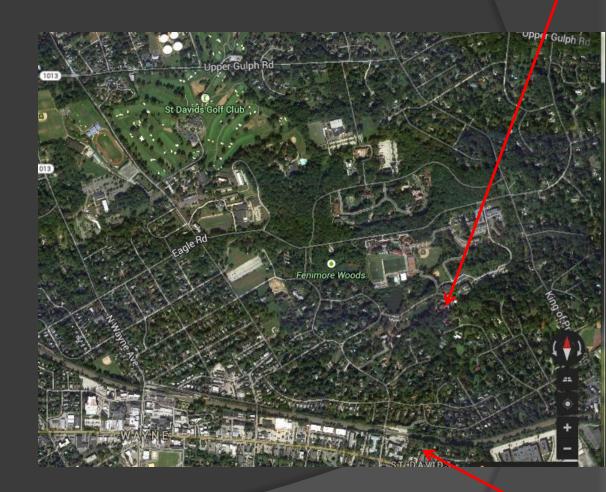
#### **Eastern University**

#### Cabrini College





#### **Eastern University**





# Eastern University

- Originally a Philadelphia "Main Line" estate ("Walmarthan") in 1913
- Architect <u>David Knickerbacker Boyd</u> 1872-1944 Spanish Style VIIIa



Compare to Portofino Italy Designs of that period (similar to Spanish Villas)



# Compare to towers in northern Italy









# Eastern University - Spanish Villa Influence

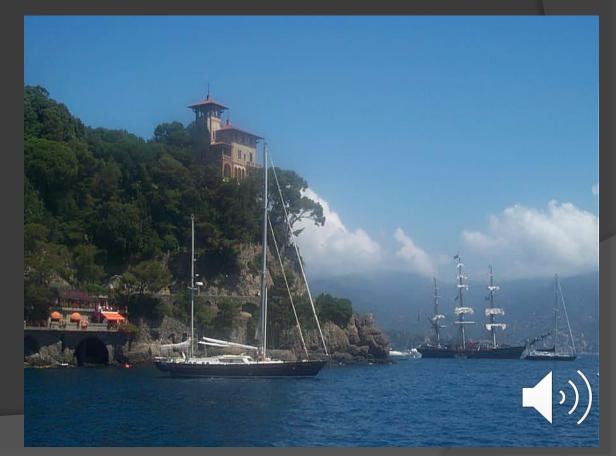




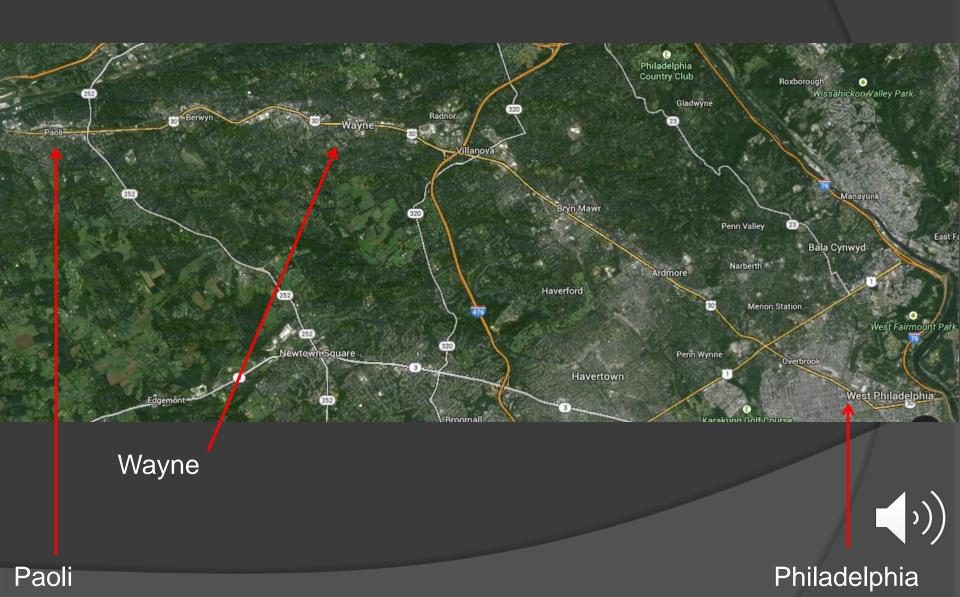
Photographs by others

# Italy (similar period)





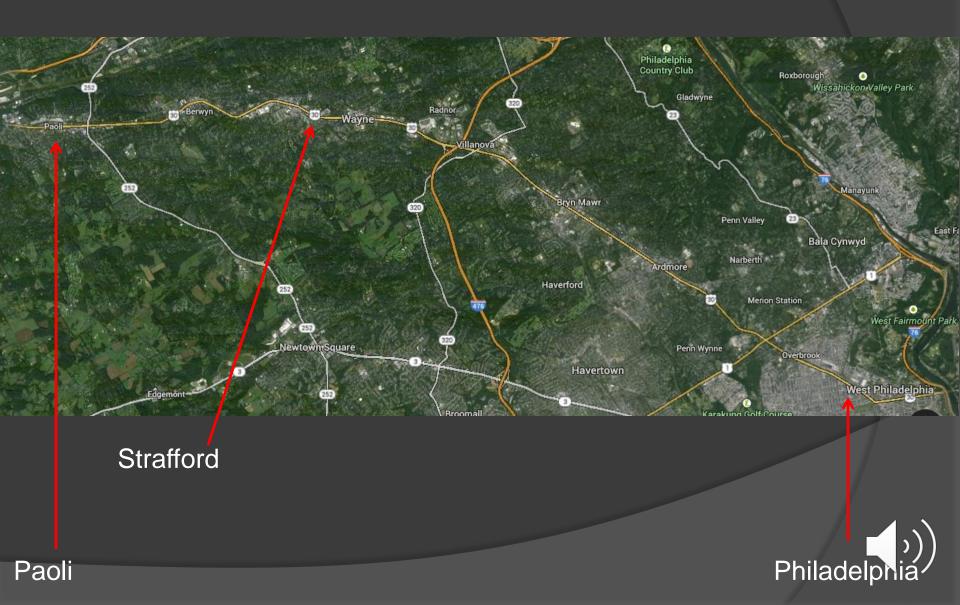
# Wayne



# Philadelphia Main Line (Wayne station)



# Strafford

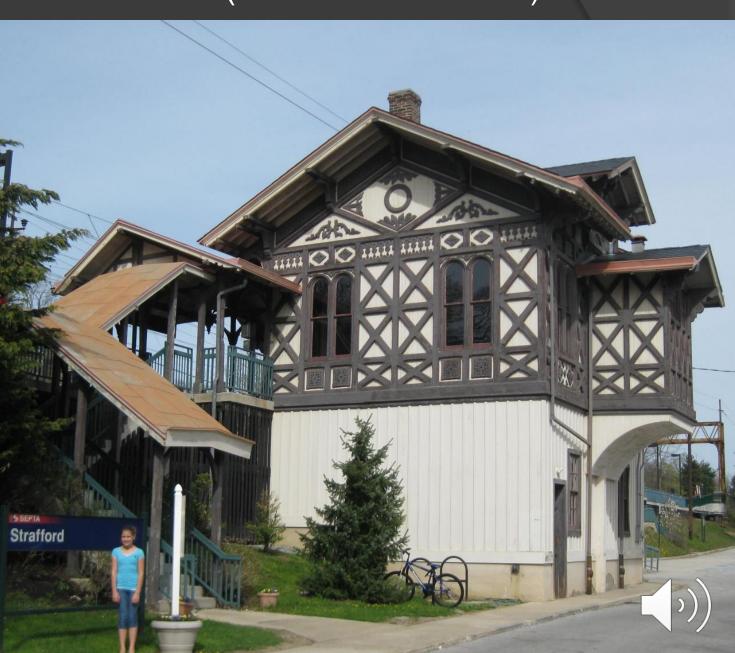


## Philadelphia Main Line (Strafford station)

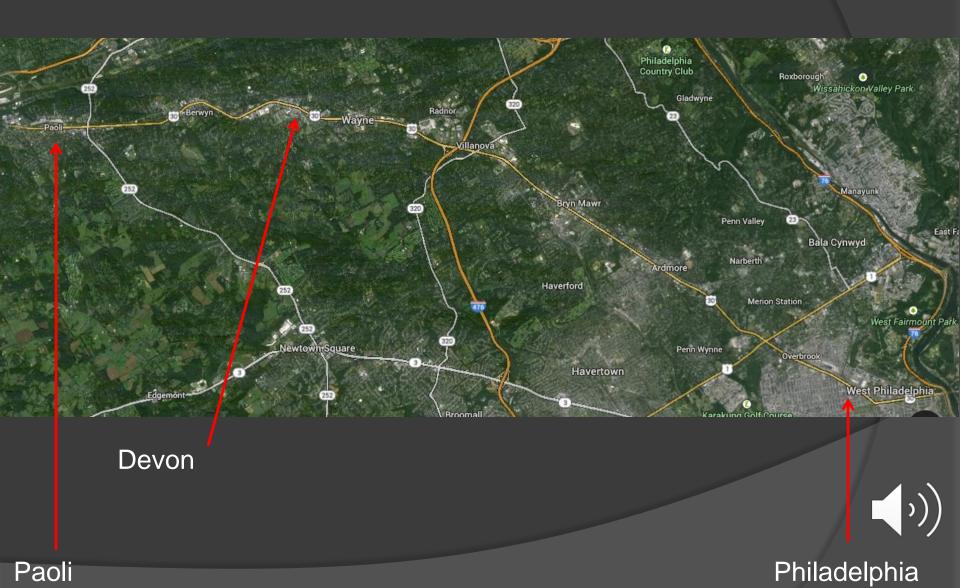
1876 Victorian Era Stick-Style

Added to the National Registry of Historic Places in 1984





# Devon



# Philadelphia Main Line (Devon station)



### Devon Prep school in Devon, PA

- Repurposed Mansion



Be inspired by something grand

- Scale down to reality
  - But be loyal to style, quality, and details

- Conform to environment
  - Terrain, trees, climate, architectural vernacular

# Nearby Home in Devon, PA

Devon Prep Repurposed Mansion

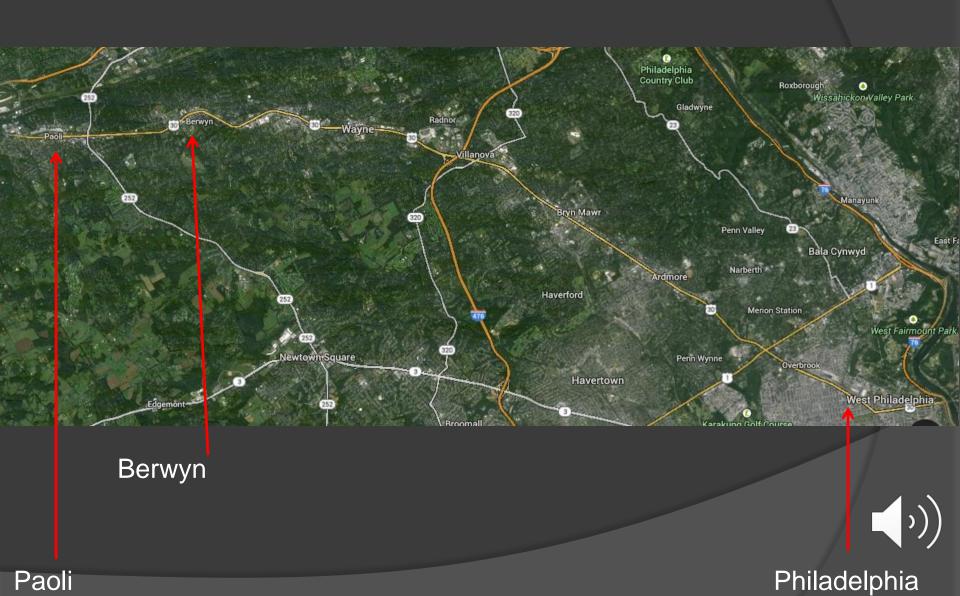


Nearby Home in Devon





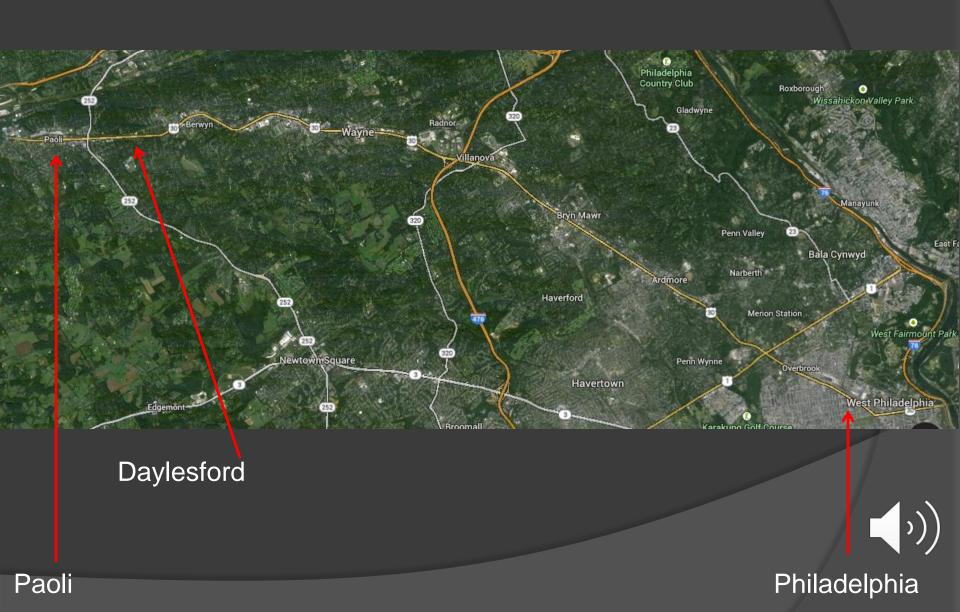
# Berwyn



# Philadelphia Main Line (Berwyn station)



# Daylesford

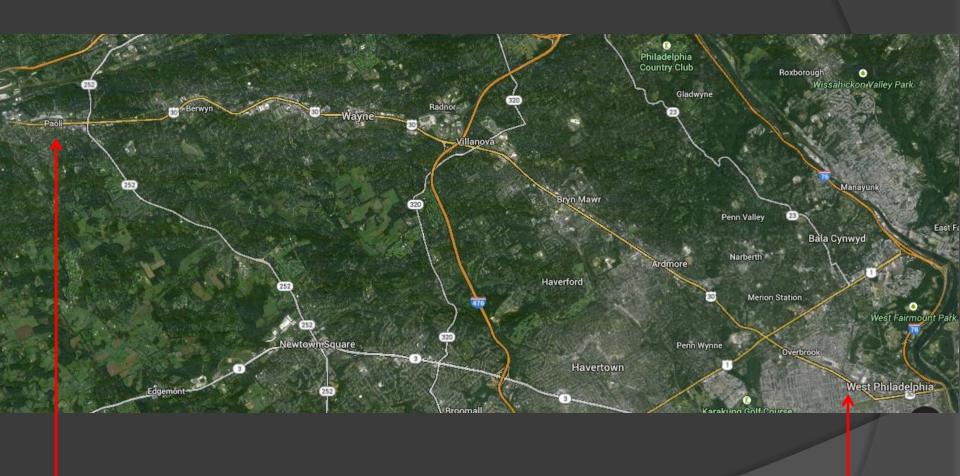


# Philadelphia Main Line (Daylesford station)





#### Paoli





Paoli

Philadelphia

# Philadelphia Main Line (Paoli station)



- Originally a Philadelphia "Main Line" estate of J. Gardner Cassatt in 1908
- Architect J. A. Dempwolf & Sons
- French Chateau style











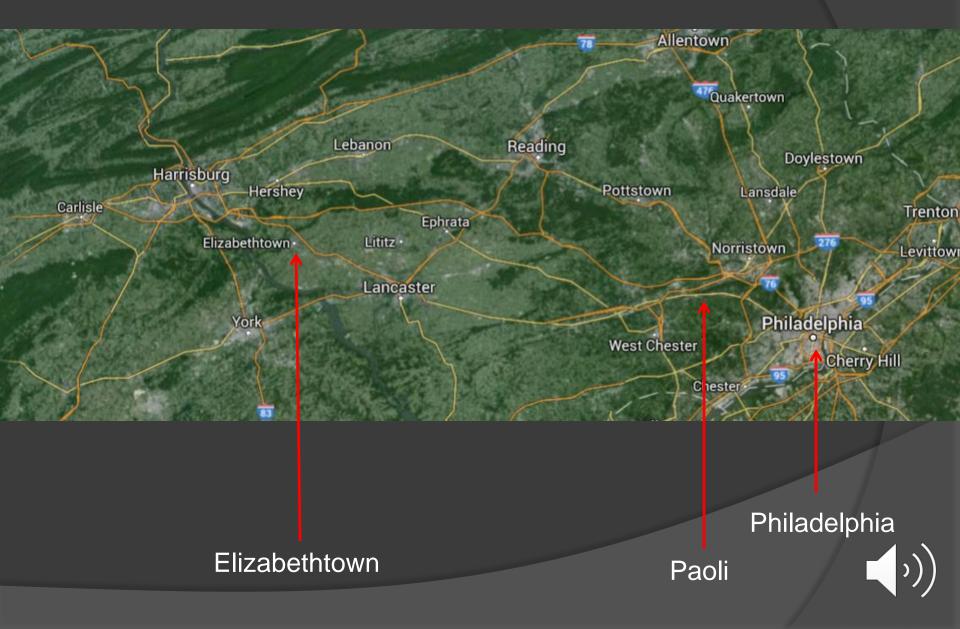








# Philadelphia Main Line rails continue to Elizabethtown



#### Amtrak Elizabethtown Station



#### Amtrak Elizabethtown Station



Be inspired by something grand

- Scale down to reality
  - But be loyal to style, quality, and details

- Conform to environment
  - Terrain, trees, climate, architectural vernacular



- Inspired by childhood on Philadelphia Main Line
- And trips to Europe



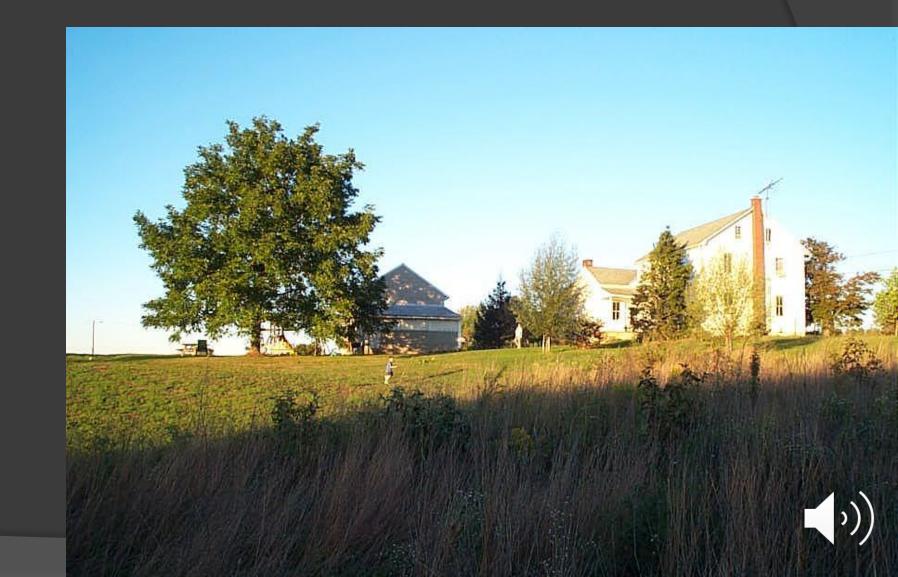
Reminds me of this picture I took in St. Peters Cathedral in the Vatican in Rome after I had built this ->







Site before renovations



Modeling before renovations







- Design choices
- A BIG DORMER







- Design choices
- A LARGE ADDITION







- Design choices
- A VERY LARGE ADDITION









#### THREE MAJOR DESIGN CHOICES







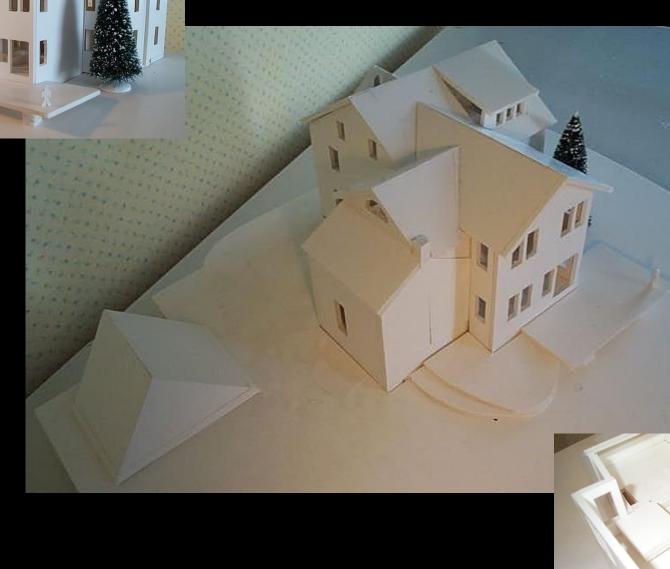


#### **DESIGN CHOICE 1**

HEAD-SPACE TOO CRAMPED



#### **DESIGN CHOICE 2**







#### **DESIGN CHOICE 3**





# selected design DESIGN CHOICE 3













VERY LARGE ADDITION chosen



#### Homeowner / Design-Builder

#### JT Wunderlich 2002

Southeastern Pennsylvania 2000sf remodel +1500sf new

Designed everything

5000+ man hours of construction

Plus two weeks of labor from father-in-law and a favorite student

Plus plenty of help from my son Joseph, and painting by my daughter Anna and wife Karla

Only contract was roof shingles and concrete mix truck

No Employees





#### Before

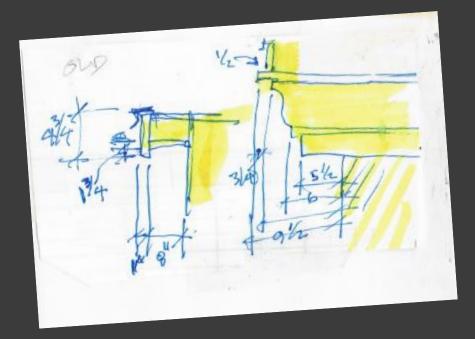


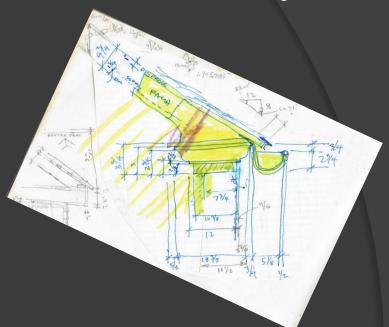
#### After

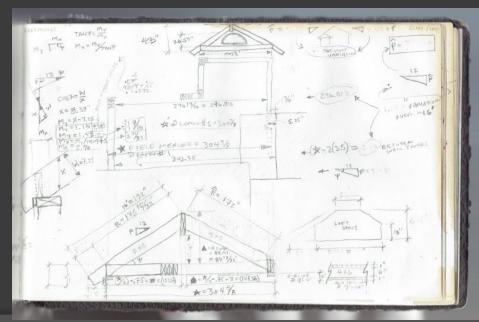


Before After

#### Homeowner / Design-Builder









# A Pennsylvania Country Home Design Buildings are also engineering projects

- Following the older traditional standard divisions:
  - Division 01 GENERAL DATA
  - Division 02 SITEWORK
  - Division 03 CONCRETE
  - Division 04 MASONRY
  - Division 05 METALS
  - Division 06 WOOD & PLASTICS
  - Division 07 THERMAL & MOISTURE PROTECTION
  - Division 08 DOORS & WINDOWS
  - Division 09 FINISHES
  - Division 10 SPECIALTIES
  - Division 11 EQUIPMENT
  - Division 12 FURNISHINGS
  - Division 13 SPECIAL CONSTRUCTION
  - Division 14 CONVEYING SYSTEMS
  - Division 15 MECHANICAL
  - Division 16 ELECTRICAL
- And Building Codes dictated all computations



































































## FRAME VISTA'S







#### FRAME VISTA'S





### FRAME VISTA'S

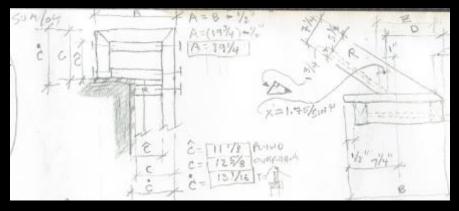






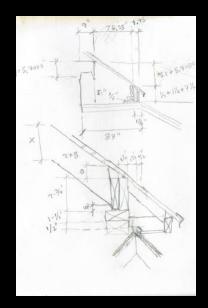










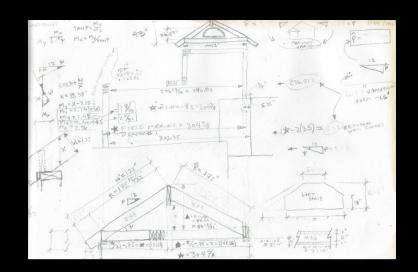


















### (2012 LEED reflection)





LEED-NC v3.0 (2009) Preliminary Project Checklist
"WUNDERsale EAST" (J. Wunderlich Recidence/Farmette, possible future Bed & Breakfast)
Nass Elisshaftbown College Benerokraft

18-Oot-1 Preliminary Review Only - Subject to Chang

11		College, Pennsylvania		Preliminary Review Only - Subject to Cha
	Sustai	nable Sites	28 Points	
Y	Prereg 1	Construction Activity Pollution Prevention	Required	
1		Bite Selection		UNGESTRUCTED SOUTHERN EXPOSURE, SHIELDED NORTHRN, A4 VI
6		Development Density & Community Connectivity		COMPLIMENTS PRESERVES FARM COMMUNITY ESTHETIC AND CUL-
N N	Credit 3	Brownfield Redevelopment		not applicable, BUT RESTORATION OF 150-YEAR OLD STRUCTURES
N		Alternative Transportation, Public Transportation Access		not applicable IN FARMING COMMUNITY
1		Alternative Transportation, Bicycle Storage & Changing Rooms		BIKES FOR EVERY FAMILY MEMBER
N.		Alternative Transportation, Low-Emitting and Fuel-Efficient Vehicles		NOT YET PLANNING HYBRID VEHICLE PURCHASE
N		Alternative Transportation, Parking Capacity		not applicable IN FARMING COMMUNITY
1		Site Development, Protect of Restore Habitat		212 TREES PLANTED, FEWCED-IN WILDLIFE, BIRD SANCTUARY CREA
1		Bite Development, Maximize Open Space		EXTENSIVE - 3-1/2 Acres
1	Credit 6.1	Stormwater Design, Quantity Control		FRENCH DRAINS AROUND NEW CONSTRUCTION
N N		Stormwater Design, Quality Control		GREY-WATER SYSTEM BEING CONSIDERED
N		Heat Island Effect, Non-Roof	1	not applicable IN FARMING COMMUNITY
N	Credit 7.2	Heat Island Effect, Roof	1	not applicable IN FARMING COMMUNITY
1	Credit 5	Light Pollution Reduction	1	RECYCLE ALL PLASTIC AND PAPER, DONATE CLOTHES, ETC. TO PO
		Efficiency	10 Points	Notes
Y		Water Use Reduction, 20% Reduction	Required	
1		Water Efficient Landscaping		MINIMAL IRRIGATION FOR TREES AND 3 TO 4 GARDENS PER YEAR
1		Innovative Wastewater Technologies	2	NEW DRAINFIELD
1	Credit 3	Water Use Reduction	2 to 4	LOW-PRESSURE WELL; DISHES: HAND-WASH + ENERGY-EFF DISHW
7	Energy	& Atmosphere	36 Points	Notes
Y		Fundamental Commissioning of the Building Energy Systems	Required	
Ÿ	Prereg 2	Minimum Energy Performance	Reguland	
Y	Prereg 3	Fundamental Refrigerant Management	Required	
8	Credit 1	Optimize Energy Performance		OIL 4 ELECTRIC ZONES WITH ARTIFICIAL INTELLIGENCE COMING
1	Credit 2	On-8ife Renewable Energy		ACTIVE SOLAR, GROUND WATER LOOP, & WIND BEING CONSIDERS
l N	Credit 3	Enhanced Commissioning	2	not vet
N	Credit 4	Enhanced Refrigerant Management	2	not yet
l N		Measurement & Verification	2	not yet
N N	Credit 6	Green Power		not yet
11	Materi	als & Resources	14 Points	Notes
Y.		Storage & Collection of Recyclables	Required	11000
3		Building Reuse, Maintain Existing Walls, Floors & Roof		EXTENSIVE - PRESERVATION OF 95% OF EXISTING STRUCTURES
1	Credit 1.7	Building Reuse, Maintain Existing Wals, Picors & Root  Building Reuse, Maintain 50% of Interior Non-Structural Elements		EXTENSIVE - 90% MAINTAINED
2		Construction Waste Management		EXTENSIVE - PRECISE MATERIAL ESTIMATES, NO DUMPSTERS
2		Materials Reuse		EXTENSIVE - ALL POST & REAMS, AND SIDING, AND STONES
2 2		Recycled Content		SOME, BUT UNCERTAIN PERCENTAGE
2 '		Regional Materials		85% LOCAL BUILDING SUPPLIER win 10 miles, REUSE OF WOOD & ST
1				
		Rapidly Renewable Materials		SON, WINDON CONSTRUCTION
7	Credit 7	Rapidly Renewable Materials Certifled Wood	1	90% WDOO CONSTRUCTION POSSIBLY SOME - NEED TO CHECK RECORDS
7	Credit 7	Certified Wood	1	POSSIBLY SOME - NEED TO CHECK RECORDS
7	Indoor	Cortined Wood Environmental Quality	16 Points	POSSIBLY SOME NEED TO CHECK RECORDS
7  1	Indoor Preseg 1	Certified Wood  Environmental Quality  Minimum IAQ Performance	16 Points Required	POSSIBLY SOME - NEED TO CHECK RECORDS  Notes
7 11 Y	Indoor Prereg 1 Prereg 2	Certified Wood  Environmental Quality  Minimum IAQ Performance Environmental Tobacco Simoke (ETS) Control	16 Points	POSSIBLY SOME - NEED TO CHECK RECORDS  Notes
7   11   Y   Y   N	Indoor Prereg 1 Prereg 2 Credit 1	Certified Wood  Environmental Quality Minimum IAQ Performance Environmental Tobasoo Smoke (ETS) Control Outdoor Air Delivery Monitoring	16 Points Required Required 1	POSSIBLY SOME - NEED TO CHECK RECORDS  Notes
7 11 Y	Indoor Prereg 1 Prereg 2 Credit 1 Credit 2	Certified Wood  Environmental Quality Minimum IAQ Performance Environmental Tobacco Emoke (ETS) Control Outdoor Air Delivery Monitoring Inneresced Ventilistion	16 Points Required Required 1	POSSIBLY SOME - NEED TO CHECK RECORDS  Notes  ATTIC TEMP-CONTROLLED FAMS, PLENUMS FOR OPTIMAL AIR-FLOX
7 1 1 N 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Credit 7 Indoor Prereg 1 Prereg 2 Credit 1 Credit 2 Credit 3.1	Certified Wood  Environmental Quality Minimum IAQ Performance Environmental Tobasco Smoke (ETS) Control Outdoor Air Delivery Monitoring Increaced Ventilistion Construction IAQ Management Plan, During Construction	16 Points Required Required 1	POSSIBLY SOME - NEED TO CHECK RECORDS  Notes  ATTIC TEMP-CONTROLLED FANS, PLENUMS FOR OPTIMAL AIR-FLOW MASKS, NECTHE-PRESS CONTRIBUNDS, AND VERTILATIONSFANS AIR
7   1   1   1   1   1   1   1   1   1	Credit 7 Indoor Prereg 1 Prereg 2 Credit 1 Credit 2 Credit 2.1 Credit 3.2	Certified Wood  Environmental Quality  Minimum IAQ Performance Environmental Tobasco Emoke (ETS) Control  Outdoor Air Delivery Monitoring Increased Ventilistion Construction IAQ Management Plan, During Construction Construction IAQ Management Plan, Sefore Occupancy	16 Points Required Required 1 1	POSSIBLY SOME - NEED TO CHECK RECORDS  Notes  ATTIC TEMP-CONTROLLED FANS, PLENUMS FOR OPTIMAL AIR-FLO MASICS, NECTIF-PRESS CONTRINMENT, AND VENTILATION FANS AL CONTRINMENT AND VENTILATION
7   11   1   1   1   1   1   1   1   1	Credit 7 Indoor Prereg 1 Prereg 2 Credit 1 Credit 2 Credit 3.1 Credit 3.2 Credit 4.1	Certified Wood  Environmental Quality Minimum IAG Performance Environmental Tobasoo Smoke (ETS) Control Outdoor Air Delivery Monitoring Increased Ventilistion Construction IAG Management Plan, During Construction Construction IAG Management Plan, Efecter Occupancy Low-Emitting Meterials, Advances & Secialists	16 Points Required Required 1 1 1 1	POSSIBLY SOME - NEED TO CHECK RECORDS  Notes  ATTIC TEMP-CONTROLLED FANS, PLENUMS FOR OPTIMAL AIR-FLOW MARKS, NECTUS-PRESS CONTAINMENT, AND VENTILATION/FANS AIR CONTAINMENT AND VENTILATION WATER-ARESE WHILE POSSIBLE.
7   11   W   Y   W   N   1   1   1   1   1   1   1   1   1	Credit 7 Indoor Prenig 1 Prenig 2 Credit 1 Credit 2 Credit 3.1 Credit 3.2 Credit 4.1 Credit 4.2	Certified Wood  Environmental Quality  Minimum IAQ Performance Environmental Tobasoo Smoke (ETS) Control  Outdoor Air Delivery Mentioning Increased Ventilation Construction IAQ Managament Flas, During Construction Construction IAQ Managament Flas, Serber Occupancy Low-Emitting Meterials, Adinesives & Sessionst Low-Emitting Meterials, Adinesives & Sessionst	16 Points Required Required 1 1 1 1 1	POSSIBLY SOME - NEED TO CHECK RECORDS  Notes  ATTIC TEMP-CONTROLLED PANS, PLENUMS FOR OPTIMAL AIR-PLOI MADICA, NECTYLE-PRESS CONTAININGHT, AND VENTILATION FANS AL CONTAININGHT AND VENTILATION WATER-RESED WHEN POSSIBLE LOW/ICDS (VIENDED ORGER) PARKTS WATER-REASED  LOW/ICDS (VIENDED ORGER)
7   11   1   1   1   1   1   1   1   1	Credit 7 Indoor Preneg 1 Preneg 2 Credit 1 Credit 2: Credit 2:1 Credit 4:1 Credit 4:2 Credit 4:2 Credit 4:3	Certified Wood  Environmental Quality  Minimum IAG Performance Environmental Tobasoo Smoke (ET8) Control Outdoor Air Delivery Monitoring Increased Ventilistion Construction IAG Management Plan, During Construction Construction IAG Management Plan, Entire Occupancy Low-Emitting Meterials, Analesses & Sealants Low-Emitting Meterials, Paints & Coatings Low-Emitting Meterials, Paints & Coatings Low-Emitting Meterials, Paints & Coatings	16 Points Required Required 1 1 1 1 1 1	POSSIBLY SOME - NEED TO CHECK RECORDS  Notes  ATTIC TEMP-CONTROLLED FANS, PLENUMS FOR OPTIMAL AIR-FLOW MASKS, NECTIVE-PRESS CONTAINMENT, AND VEHTILATION FANS AIR CONTAINMENT AND VEHTILATION WATER-ARASED WATER POSSIBLE LOW-VOCES (VISIAN) Organic Empourals, PAINTS WATER-BASED ALA-WOOD, MINANAL VOCES
7   1   N   1   1   1   1   1   1   1   1	Credit 7 Indoor Preneg 1 Preneg 2 Credit 1 Credit 2: Credit 2:1 Credit 4:1 Credit 4:2 Credit 4:2 Credit 4:3 Credit 4:3 Credit 4:4	Certified Wood  Environmental Quality  Minimum IAQ Performance Environmental Tobasoo Emoke (ETS) Control  Outdoor Air Delivery Monitoring Increased Ventilation Construction IAQ Management Filan, During Construction Construction IAQ Management Filan, During Construction Construction IAQ Management Filan, Series Occupancy Low-Emitting Materials, Adnessives & Bealants Low-Emitting Materials, Filancia & Coatings Low-Emitting Materials, Filancia & Coatings Low-Emitting Materials, Filancia & Coatings Low-Emitting Materials, Filancia	16 Points Required Required 1 1 1 1 1 1 1	POSSIBLY SOME - NEED TO CHECK RECORDS  Notes  ATTC TEMP-CONTROLLED FAMS, PLEYLINS FOR OFTIMAL AIR-RUN MASICS, INCOME PROSES CONTAINABLY, AND VEHTILATION FAMS A CONTAINABLY AND VEHTILATION WATER-ASED WHEN POSSIBLE LOW/JOCS (VIEWED TOSSIBLE ALL-WIGGO, MINIMAL VOCE) ALL-WIGGO, MINIMAL VOCE - NEED TO CHECK RECORDS
7 N N N N N N N N N N N N N N N N N N N	Credit 7 Indoor Preneg 1 Preneg 2 Credit 1 Credit 2.2 Credit 4.1 Credit 4.2 Credit 4.4 Credit 4.2 Credit 4.4 Credit 5	Certified Wood  Environmental Quality  Minimum IAG Performance Environmental Tobasoo Smoke (ET8) Control Outdoor Air Delivery Monitoring Increased Ventilistion Construction IAG Management Plan, During Construction Construction IAG Management Plan, Eletire Occupancy Low-Emitting Meterials, Antenses & Sesiants Low-Emitting Meterials, Paints & Costings Low-Emitting Meterials, Paints & Costings Low-Emitting Meterials, Composite Wood & Agrifiber Products Indoor Chemical & Pollutant Surure Controls Indoor Chemical & Pollutant Surure Controls	16 Points Required Required 1 1 1 1 1 1 1 1 1	POSSIBLY SOME - NEED TO CHECK RECORDS  Notes  ATTIC TEMP-CONTROLLED FANS, PLENUMS FOR OPTIMAL AIR-FLO MASKS, NGTYG-PRESS CONTAINMENT, AND VENTILATION FANS AI CONTAINMENT AND VENTILATION WATER-ARASE OWNER POSSIBLE LOW-VOCES (VISIAN Organic Campounds), PAINTS WATER-RASED ALAWOOD, MINUAL VOCES ALAWOOD, SANAWAL VOCES ALAWOO
7   N   N   N   N   N   N   N   N   N	Credit 7 Indoor Prang 1 Prang 2 Credit 1 Credit 2 Credit 3.1 Credit 4.1 Credit 4.2 Credit 4.4 Credit 4.3 Credit 4.3 Credit 4.4 Credit 5. Credit 5.	Certified Wood  Environmental Quality  Minimum IAG Performance Environmental Tobsoo Smoke (ETS) Control  Outdoor Air Delivery Monitoring Increased Ventilistion Construction IAG Management Plan, During Construction Construction IAG Management Plan, Before Occupancy Low-Emitting Materials, Affairers & Secialist Low-Emitting Materials, Placing Systems Low-Emitting Materials, Placing Systems Low-Emitting Materials, Placing Systems Low-Emitting Materials, Placing Systems Low-Emitting Materials, Openosite Wood S. Agrifiber Products Indoor Chemical & Pollutant Source Control Controllability of Systems, Lipting	16 Points Required Required 1 1 1 1 1 1 1 1 1 1 1	POSSIBLY SOME - NEED TO CHECK RECORDS  Notes  ATTIC TEMP-CONTROLLED FANS, PLENUMS FOR OPTIMAL AIR-RLO MASKE, RICTYG-PRESS CONTROMBOY, AND VERTILATIONERAYS AI CONTROLLED FANS CONTROMBOY, AND VERTILATIONERAYS AI CONTROLLED FANS CONTROLLED FANTS WATER-RASED ALL-PIOCO, MINIMAL VOCES RACON TESTED, COS MONTRORD, RICERASED VERTILATION RACON TESTED, COS MONTRORD, RICERASED VERTILATION RATOR TESTED, COS MONTRORD, RICERASED VERTILATION WOT YET, BUT PARMAY LIGHT-PAIMMINIZATION FLAN
7 N N N N N N N N N N N N N N N N N N N	Credit 7 Indoor Pressg 1 Pressg 2 Credit 1 Credit 2:1 Credit 3:1 Credit 4:2 Credit 4:2 Credit 4:2 Credit 4:5 Credit 4:5 Credit 5:1 Credit 6:1 Credit 6:1	Certified Wood  Environmental Quality Minimum IAQ Performance Environmental Tobasoo Smoke (ETS) Control Outdoor Air Delivery Monitoring Increased Ventilistion Construction IAQ Management Plan, During Construction Construction IAQ Management Plan, During Construction Construction IAQ Management Plan, Before Occupancy Low-Emitting Materials, Paints & Coatings Low-Emitting Materials, Paints & Coatings Low-Emitting Materials, Composite Wood & Agriffuer Products Indoor Chemical & Pollutant Source Control Controllability of Systems, Lighting Controllability of Systems, Lighting	16 Points Required Required 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	POSSIBLY SOME - NEED TO CHECK RECORDS  Notes  ATTIC TEMP-CONTROLLED FANS, PLENUMS FOR OPTIMAL AIR-FLOW MASKS, NECTYLE-PRESS CONTAINMENT, AND VERTILATION FANS AI CONTAINMENT AND VERTILATION WATER-RASED WHIP POSSIBLE LOW-VOCES (VISBA'D Grant Congrues), PAINTS WATER-RASED ALL-WOOD, MINANAL VOCES ALL-WOOD, MINANAL VOCES - NEED TO CHECK RECORDS ALL-WOOD, MINANAL VOCES ALL-WOOD, MINANAL VOCES - NEED TO CHECK RECORDS MOT NETS FLOOR WORTHOOD, INCREASED VERTILATION NOT YET, BUT DAILY FAMILY LIGHTYS-AIMMINEATION FLAN SEVERAL PRODUCTIONS OF THE PROPERTY OF THE PR
7   N   N   1   1   1   1   1   1   1   1	Credit 7 Indoor Pranag 1 Pranag 1 Pranag 2 Credit 3.1 Credit 2.1 Credit 4.1 Credit 4.2 Credit 4.1 Credit 4.2 Credit 4.1 Credit 5.1 Credit 5.1 Credit 5.2 Credit 6.2 Credit 6.2 Credit 6.2 Credit 6.1 Credit 6.2 Credit 6.1	Certified Wood  Environmental Quality  Minimum IAG Performance Environmental Tobsoo Smoke (ETS) Control  Outdoor Air Delivery Monitoring Increased Ventilistion Construction IAG Management Plan, During Construction Construction IAG Management Plan, Ethics Occupancy Low-Emitting Materials, Anteness & Sealaris Low-Emitting Materials, Paints & Coatings Low-Emitting Materials, Paints & Coatings Low-Emitting Materials, Composite Wood & Aprilber Products Indoor Chemical & Pollutant Source Control Controllability of Systems, Lighting Controllability of Systems, Thermal Comfort, Design	16 Points Required Required 11 11 11 11 11 11 11 11 11 11 11 11 11	POSSIBLY SOME - NEED TO CHECK RECORDS  Notes  ATTIC TEMP-CONTROLLED FANS, PLENUMS FOR OPTIMAL AIR-FLOM MASICS, NICOTYL-PRESS CONTRIVINDENT, AND VERTILATION FANS AIR CONTRIBUNIST AND VERTILATION WATER-ALED WINE POSSIBLE ALL-WINDO, MINIMAL VICOS ALL-WINDO AL
7	Credit 7 Indoor Priving 1 Priving 2 Credit 1 Credit 2 Credit 4.1 Credit 4.2 Credit 4.2 Credit 4.3 Credit 6.3 Credit 6.1 Credit 6.2 Credit 6.1 Credit 6.1 Credit 6.1 Credit 6.1 Credit 6.2 Credit 7.2	Certified Wood  Environmental Quality  Minimum IAG Performance Environmental Tobasoo Smoke (ET8) Control Outdoor Air Delivery Monitoring Increased Ventilistion Construction IAG Management Plan, During Construction Construction IAG Management Plan, Elettre Occupancy Low-Emitting Meterials, Antenses & Sesiants Low-Emitting Meterials, Paints & Costings Low-Emitting Meterials, Composite Wood & Agrificer Products Low-Emitting Meterials, Composite Wood & Agrificer Products Indiaor Chemical & Pollutant Source Control Controlisbility of Systems, Lighting Controlisbility of Systems, Lighting Controlisbility of Systems, Thermal Comfort Thermal Comfort, Design Thermal Comfort, Verification	16 Points Required Required 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	POSSIBLY SOME - NEED TO CHECK RECORDS  Notes  ATTIC TEMP-CONTROLLED RANS, PLENUMS FOR OPTIMAL AIR-FLOW MASKS, NECTYC-PRESS CONTAINMENT, AND VENTILATION FAMS AI CONTAINMENT AND VENTILATION WATER-RASED WHICH POSSIBLE LOW-VOCES (VISIAN Organic Engines), PAINTS WATER-RASED ALL-WOOD, MINNAL VOCES ALL-WOOD, MINNAL VOCES - NEED TO CHECK RECORDS ALL-WOOD, MINNAL VOCES ALL-WOOD, MINNAL VOCES - NEED TO CHECK RECORDS SYNARY PROPRIETE MINNAL VOCTS - NEED TO CHECK RECORDS SYNARY PROPRIETE MINNAL VOCTS - NEED TO CHECK RECORDS SYNARY PROPRIEMED ZOMES, ADRIENDED, MINNAL STORE PLANK PROCRAMMED ZOMES, ORTHOROGANICATION NOT YET, BUT DAILY FAMILY LIGHTFRESHMINGTHON PLAN SYNARY PROPRIEMED ZOMES, ADRIENDING AIR PRADERS PROPRIEMED STORES, ORTHOROGANICATION NOT YET.
7	Credit 7 Indoor Pressg 1 Pressg 2 Credit 1 Credit 3.2 Credit 4.1 Credit 4.2 Credit 4.2 Credit 4.3 Credit 4.4 Credit 4.5 Credit 6.1 Credit 6.2 Credit 6.1 Credit 6.2 Credit 7.1 Credit 7.1 Credit 7.2 Credit 7.1 Credit 7.2 Credit 7.1	Certified Wood  Environmental Quality  Minimum IAG Performance Environmental Tobsooc Smoke (ETS) Control  Outdoor Air Delivery Monitoring Increased Ventilistion Construction IAG Management Plan, During Construction Construction IAG Management Plan, Entire Occupancy Low-Emitting Materials, Anteness & Sealants Low-Emitting Materials, Pains & Ocatings Low-Emitting Materials, Composite Wood & Aprilber Products Indoor Chemical & Pollutant Source Control Controllability of systems, Uppting Controllability of systems, Uppting Thermal Commont, Desting Thermal Commont, Desting Thermal Commont, Desting Daylight & Verw., Daylight 75% of Bosces	16 Points Required Required 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	POSSIBLY SOME - NEED TO CHECK RECORDS  Notes  ATTIC TEMP-CONTROLLED FAMS, PLENUMS FOR OFTWAL AIR-PLON MASICE, NECTYG-PRESS CONTAINMENT, AND VENTILATION FAMS ALL CONTAINMENT AND VENTILATION VARTARRAGED WHY POSSIBLE LOW-VICES (WEST OF SOME CONTROLLED FAMS) LOW-VICES (WEST OF SOME CONTROLLED FAMS) AND VESTED, COS MOVETORED, INCREASED VENTILATION SALON TESTED, COS MOVETORED, INCREASED VENTILATION SEVERAR, PROGRAMMED ZONSE (ARTIFICIAL INTELLIGENCE PLANN MOT VEST UND CORRES, DEFLUMDIPICATION MOT VEST.
7   11   1   1   1   1   1   1   1   1	Credit 7 Indicate Press 1 Press 2 Credit 1 Credit 3.1 Credit 4.2 Credit 4.2 Credit 4.3 Credit 4.4 Credit 6.1 Credit 6.1 Credit 6.2 Credit 6.1 Credit 6.2 Credit 6.3	Certified Wood  Environmental Quality  Minimum IAQ Performance Environmental Tobasoo Smoke (ETS) Control Outdoor Air Delivery Monitoring Increaced Ventilistion Construction IAQ Management Plan, During Construction Construction IAQ Management Plan, Entire Occupancy Low-Emitting Materials, Antaneva & Bealants Low-Emitting Materials, Paints & Costings Low-Emitting Materials, Composite Wood & Agrifficer Products Indoor Chemical & Pollutant & Source Control Controliability of Systems, Lighting Controliability of Systems, Lighting Controliability of Systems, Themal Comfort Thermal Comfort, Design Thermal Comfort, Design Thermal Comfort, Verification Daylight & View, Daylight 75% of Boaces	16 Points Required Required 11 11 11 11 11 11 11 11 11 11 11 11 11	POSSIBLY SOME - NEED TO CHECK RECORDS  Notes  ATTIC TEMP-CONTROLLED FAINS, PLENUMS FOR OPTIMAL AIR-FLOM MASKES, NECTYG-PRESS CONTRINNENT, AND VERTILATION FAINS AN CONTRINNENT AND VERTILATION MATERIAGED WHITE POSSIBLE LOW-VICES (VISED Organic Company), PAINTS WATER-RASED LOW-VICES (VISED Organic Company), PAINTS WATER-RASED ALL/WICES, MANUAL VICES ALL/WICES, AIR VICES
7   11   Y   Y   Y   Y   Y   Y   Y   Y	Credit 7 Indoor Pressg 1 Pressg 2 Credit 3:1 Credit 4:1 Credit 4:2 Credit 4:1 Credit 5:1 Credit 5:1 Credit 5:2 Credit 6:1 Credit 5:1 Credit 6:2 Credit 7:1 Credit 7:2 Credit 7:1 Credit 8:2 Innova	Certified Wood  Environmental Quality  Minimum IAQ Performance Environmental Tobasoo Smoke (ETS) Control  Outdoor Air Delivery Mentioning Increased Ventilation  Lord Construction  Lord Construction  Lord Construction  Construction IAQ Managament Plan, Serior Occupancy  Low-Emitting Materials, Adnessives & Sealants  Low-Emitting Materials, Adnessives & Sealants  Low-Emitting Materials, Flooring Systems  Low-Emitting Materials, Composite Wood & Agrittber Products  Indoor Ohemical & Pollutant Source Control  Controllability of Systems, Lipsing  Controllability of Systems, Lipsing  Controllability of Systems, Thermal Comfort  Thermal Comfort, Lesings  Thermal Comfort, Lesings  Dipplication of Systems, Charles  Dipplication of Systems (Systems)  Dipplication of Systems (Sys	16 Points Required Required 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	POSSIBLY SOME - NEED TO CHECK RECORDS  Notes  ATTC TEMP-CONTROLLED SANS, PLEYLIMS FOR OFTINAL AIR-RUN MASICS, INCOME PRESS CONTAINING MY, AND VEHTHATION FAMES AS CONTAINING THAT OF VEHTHATION WATER-ASSED WHEN POSSIBLE LOW/COTS (NEEDS TO CHECK TO CHECK RECORDS ALL-WIGOD, MIMMAL VOCS - NEED TO CHECK RECORDS BABON TESTED, COS MONTORED, INCREASED VEHTHATION WATER-ASSED WATER-AIR VOCS - NEED TO CHECK RECORDS BABON TESTED, COS MONTORED, INCREASED VEHTHATION WATER TO TO SHOW TO THE TO CHECK RECORDS SEVERAL PROGRAMMED ZOINES (METHICIAL INTELLIGENCE PLANN DEOLOGISMAN DEOLOGIS, DEFINITION INTELLIGENCE PLANN ENTERINE PROGRAMMED ZOINES (METHICIAL INTELLIGENCE PLANN ENTERINE VEHT OF THIMESO ENTERINE VEHT OFTENISED
7   11   Y   Y   N   1   1   1   1   1   1   1   1   1	Check 7 Indoor Phaneg 1 Phaneg 2 Check 1 Check 1 Check 2 Check 2 Check 4.1 Check 4.2 Check 4.2 Check 4.4 Check 5 Check 5.1 Check 5.1 Check 7.1 Check 7.2 Check 7.1 Check 7.2 Innova Check 1.1	Certified Wood  Environmental Quality  Minimum IAQ Performance  Environmental Tobasoo Smoke (ETS) Control  Outdoor Air Delivery Monitoring  Increaced Ventilistion  Construction IAQ Management Plan, During Construction  Construction IAQ Management Plan, Entere Occupancy  Low-Emitting Materials, Antaneva & Sealants  Low-Emitting Materials, Paints & Costings  Low-Emitting Materials, Composite Wood & Agrifficer Products  Indoor Chemical & Pollutant & Source Confroil  Controliability of Systems, Lighting  Controliability of Systems, Lighting  Controliability of Systems, Themal Comfort  Thermal Comfort, Design  Thermal Comfort, Design  Topical & Views, Daviglar TSh of Boaces  Davilott & Views, Daviglar TSh of Boaces  Davilott & Views, Usiva for 80% of Boaces  Sion & Design Process  Innegation in Design Provide Specific Title	15 Points 16 Points 17 11 11 11 11 11 11 11 11 11 11 11 11 1	POSSIBLY SOME - NEED TO CHECK RECORDS  Notes  ATTIC TEMP-CONTROLLED FANS, PLENUMS FOR OPTIMAL AIR-FLOMMSSICS, NECTYG-PRESS CONTRINNEDIT, AND VERTILATION PANS AU CONTRINNEDIT AND VERTILATION WATER-ARASED WATER-ARASED CONTRINNEDIT AND VERTILATION PANS AU CONTRINNEDIT CONTRINING CONTRINING CONTRINING CONTRINING CONTRINING AUTOMACA ATTEMPTED MINISTRUCTURE, INSECT TO CHECK RECORDS AUTOMACA
7   11   Y   Y   N   1   1   1   1   1   1   1   1   1	Credit 7 Indicate Pressg 1 Pressg 2 Credit 1 Credit 2 Credit 4.1 Credit 4.2 Credit 4.2 Credit 4.1 Credit 5.2 Credit 5.1 Credit 1.1 Credit 1.1 Credit 1.1	Certified Wood  Environmental Quality  Minimum IAQ Performance Environmental Tobasoo Bmoke (ETS) Control  Outdoor Air Delivery Monitoring Increased Ventiliation Construction IAQ Management Filan, During Construction Construction IAQ Management Filan, During Construction Construction IAQ Management Filan, Series Coccupancy Low-Emitting Materials, Adnessives & Beaturis Low-Emitting Materials, Filancing Systems Index Onterior Openior Systems Thermal Commont. Designer, Termal Commont. Thermal Commont. Lessing Thermal Commont. Thermal Commont. Lessing Thermal Commont. Thermal Commont	16 Points Required Required Required 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	POSSIBLY SOME - NEED TO CHECK RECORDS  Notes  ATTE TEMP-CONTROLLED FANS, PLEYUNS FOR OFTIMAL AIR-RUD MASSES, MECTIVE-PRESS CONTRIVINGENT, AND VENTILATIONSFAIS AI CONTRAINMENT AND VENTILATION MATERIALED WHEN POSSIBLE LOW/COTS (VIEWED TO STRICE) ALL-WIGGO, MINMALL VOCES RADON TESTED, COS MONTORED, INCREASED VENTILATION RADON TESTED, COS MONTORED, INCREASED VENTILATION MOT YET, BUT DOORS, ORTHORISAM INCREMINED VENTILATION NOT YET, BUT DOORS, ORTHORISAM INCREMENT BUT DE LIVERS EVERALE PROCRAMMED ZONES (ARTIFICIAL INTELLIGENCE PLANN NOT YET, BUT DOORS, ORTHORISAM INCREMENT BUT DE LIVERS OF THE PROCRAMMED ZONES, ORTHORISAM INCREMENT BUT DE LIVERS OF THE PROCRAMMED ZONES, ORTHORISAM INCREMENT BUT DE LIVERS OF THE PROCRAMMED ZONES, ORTHORISAM INCREMENT BUT DE LIVERS OF THE PROCRAMMED ZONES, ORTHORISAM INCREMENT BUT DE LIVERS OF THE PROCRAMMED ZONES AIR TO CONTRAIN BUT DE LIVERS OF THE PROCRAMMED ZONES AIR TO CONTRAIN BUT DE LIVERS OF THE PROCRAMMED ZONES AIR TO CONTRAIN BUT DE LIVERS OF THE PROCRAMMED ZONES AIR TO CONTRAIN BUT DE LIVERS OF THE PROCRAMMED ZONES AIR TO CONTRAIN BUT DE LIVERS OF THE PROCRAMMED ZONES AIR TO CONTRAIN BUT DE LIVERS OF THE PROCRAMMED AIR TO CONTRAIN BUT DE LIVERS OF THE PROCRAMMED ZONES AIR TO CONTRAIN BUT DE LIVERS OF THE PROCRAMMED AIR TO CONTRAIN BUT DE LIVERS OF THE PROCRAMMED AIR TO CONTRAIN BUT DE LIVERS OF THE PROCRAMMED AIR TO CONTRAIN BUT DE LIVERS OF THE PROCRAMMED AIR TO CONTRAIN BUT DE LIVERS OF THE PROCRAMMED AIR TO CONTRAIN BUT DE LIVERS OF THE PROCRAMMED AIR TO CONTRAIN BUT DE LIVERS OF THE PROCRAMMED AIR TO CONTRAIN BUT DE LIVERS OF THE PROCRAMMED AIR TO CONTRAIN BUT DE LIVERS OF THE PROCRAMMED AIR TO CONTRAIN BUT DE LIVERS OF THE PROCRAMMED AIR TO CONTRAIN BUT DE LIVERS OF THE PROCRAMMED AIR TO CONTRAIN BUT DE LIVERS OF THE PROCRAMMED AIR TO CONTRAIN BUT DE LIVERS OF THE PROCRAMMED AIR TO CONTRAIN BUT DE LIVERS OF THE PROCRAMMED AIR TO CONTRAIN BUT DE LIVERS OF THE PROCRAMMED AIR TO CONTRAIN BUT DE LIVERS OF THE PROCRAMMED AIR TO CONTRAIN BUT DE LIVERS OF THE PROCRAMMED AIR T
7	Credit 7 Indoor Pressg 1 Pressg 2 Credit 1 Credit 2 Credit 4.1 Credit 4.1 Credit 4.2 Credit 4.1 Credit 4.2 Credit 4.1 Credit 4.2 Credit 4.1 Credit 5.2 Credit 6.1 Credit 6.1 Credit 7.2 Credit 7.2 Credit 7.2 Credit 7.2 Credit 7.1 Credit 5.2 Innova Credit 1.1 Credit 5.2 Innova Credit 1.1 Credit 1.2 Credit 1.1 Credit 1.2 Credit 1.1	Certified Wood  Environmental Quality  Minimum IAQ Performance  Environmental Tobasoo Smoke (ETS) Control  Outdoor Air Delivery Monitoring  Increaced Ventilation  Construction IAQ Management Plan, During Construction  Construction IAQ Management Plan, Entere Occupancy  Low-Emitting Materials, Actastives & Sealants  Low-Emitting Materials, Paints & Ocatings  Low-Emitting Materials, Composite Wood & Agrifficer Products  Indoor Chemical & Pollutant & Source Control  Controlability of Systems, Lighting  Daylight & Views, Daylight TS% of Boaces  Daylight & Views, Daylight TS% of Boaces  Source Sourc	15 Points Required Required Required 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	POSSIBLY SOME - NEED TO CHECK RECORDS  Notes  ATTIC TEMP-CONTROLLED FANS, PLENUMS FOR OPTIMAL AIR-FLOMMSSICS, NECTYG-PRESS CONTRINNEDT, AND VENTILATION FANS AUCONTRINNEDT AND VENTILATION FANS AUCONTRINNEDT AND VENTILATION FANS AUCONTRINNEDT AND VENTILATION FANS AUCONTRINNEDT AND VENTILATION FANS AUCONTRINNED FANS AUCONTRINNED CONTRIVED CONTRIVED AUCONTRIVED, AUCONTRIVED AUCON
7   N   N   N   N   N   N   N   N   N	Credit 7 Indoor Preng 1 Preng 2 Credit 1 Credit 2 Credit 4.1 Credit 4.2 Credit 4.1 Credit 5.2 Credit 4.1 Credit 6.2 Credit 6.1 Credit 6.2 Credit 6.1 Credit 6.2 Credit 6.1 Credit 5.1 Credit 1.2 Credit 1.2 Credit 1.2 Credit 1.3 Credit 1.3 Credit 1.3 Credit 1.3	Certified Wood  Environmental Quality  Minimum IAG Performance Environmental Tobasoo Smoke (ETS) Control  Outdoor Air Delivery Monitoring Increased Ventilistion Construction IAG Management Plan, During Construction Construction IAG Management Plan, Before Occupancy Construction IAG Management Plan, Before Occupancy Low-Emitting Materials, Plants Contings Low-Emitting Materials, Plants Contings Low-Emitting Materials, Plants Contings Low-Emitting Materials, Plants Contings Low-Emitting Materials, Plants Controllability of Systems, Uppting Controllability of Systems, Uppting Controllability of Systems, Uppting Controllability of Systems, Uppting Thermal Comfort, Verification Daylight & Views, Daylight 75% of Spaces Daylight & Views, Uppting Controllability of Systems, Systems Low-Emitting Materials, Company Thermal Comfort, Verification Daylight & Views, Daylight 75% of Spaces Daylight & Views, Daylight 75% of Spaces Individual Control Title Innovation in Design, Provide Beacher Title Innovation in Design, Provide Beache	15 Points Required Required Required 11 11 11 11 11 11 11 11 11 11 11 11 11	POSSIBLY SOME - NEED TO CHECK RECORDS  Notes  ATTE TEMP-CONTROLLED FANS, PLENUMS FOR OPTIMIL AIR-RLO MASKE, NEETWE-PRESS CONTROMBOY, AND VEHTLATHONFANS AI WATER-ASED WHEN POSSIBLE LOW/VICE VICENTIES ALL-WICED, MINIMAL VICES ALL-WICED, MINIMAL VICES - NEED TO DEPEN RECORDS RADON TESTED, COS MONTORED, INCREASED VEHTLATION WOTER TO COS MONTORED, INCREASED VEHTLATION NOT YET, BUT DOORS, DEPLAYER AIMMILISATION FLAN SEVERAL, PROCESSAMED ZONES (ARTIFICIAL INTELLISANCE PLANN NOT YET, BUT DOORS, DEPLAYER AIMMILISANCE PLANN NOT YET BUT DOORS, DEPLAYER AIMMILISANCE PLANN NOT YET CHESINGLY OPTIMIZED EXTERNISAL YOUR PLAN SERVER AIMMILISANCE PLANN OFFICE AIMMILISANCE PLANS VEHICLES AND AIMMILISANCE PLANS VEHICLES
7   1   4   4   4   4   4   4   4   4   4	Credit 7 Indoor Preveg 1 Preveg 2 Credit 1 Credit 22 Credit 4.1 Credit 4.2 Credit 4.2 Credit 4.2 Credit 4.2 Credit 4.2 Credit 5.1 Credit 5.1 Credit 5.1 Credit 5.2 Credit 6.1 Credit 7.2 Credit 1.1 Credit 7.2 Credit 1.1 Credit 7.2 Credit 1.1 Credit 1.2 Credit 1.1 Credit 1.2 Credit 1.4	Certified Wood  Environmental Quality  Minimum IAQ Performance  Environmental Tobasoo Smoke (ETS) Control  Outdoor Air Delivery Monitoring  Increaced Ventilistion  Construction IAQ Management Plan, During Construction  Construction IAQ Management Plan, Entere Occupancy  Low-Emitting Materials, Paints & Costings  Low-Emitting Materials, Paints & Costings  Low-Emitting Materials, Composite Wood & Agriffeer Products  Indoor Chemical & Pollutant & Source Confroil  Controliability of Systems, Lighting  Controliability of Systems, Lighting  Controliability of Systems, Lighting  Controliability of Systems, Themal Comfort  Thermal Comfort, Design  Thermal Comfort, Verification  Daylight & View, Daylight 75% of Boaces  Souried & Systems, Very Systems  Innevation in Design. Frovide Specific Title  Innovation in Design. Frovide Specific Title	15 Points Required Required Required 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	POSSIBLY SOME - NEED TO CHECK RECORDS  Notes  ATTIC TEMP-CONTROLLED RANS, PLENUMS FOR OFTIMAL AIR-FLOW MASKE, NECTYG-PRESS CONTAINMENT, AND VERTILATION WATER-ASED TO VIOLUME RATIO WATER-ASED ASED WATER-ASED WA
7	Credit 7 Indoor Preveg 1 Preveg 2 Credit 1 Credit 2.1 Credit 3.2 Credit 4.1 Credit 4.2 Credit 4.2 Credit 4.1 Credit 5.2 Credit 5.1 Credit 5.2 Credit 6.2 Credit 6.2 Credit 5.1 Credit 5.1 Credit 5.1 Credit 5.1 Credit 5.1 Credit 5.1 Credit 1.2 Credit 1.3 Credit 1.3 Credit 1.3 Credit 1.4 Credit 1.5 Credit 1.5 Credit 1.5 Credit 1.5 Credit 1.5 Credit 1.5 Credit 2.5 Credit 2.6 Credit 2.6 Credit 2.7 Credit 3.7 C	Certified Wood  Environmental Quality  Minimum IAQ Performance Environmental Tobasoo Smoke (ETS) Control  Outdoor Air Delivery Mentioning Increased Ventilation Low-Environing Medical Air Canada Low-Environing Medical Air Canada Low-Environing Medical Air Canada Low-Environing Medical Canada Control Low-Environing Control Low-Environing Control Low-Environing Thermal Common Control Thermal Control Thermal Common Control Thermal Control Thermal Common Control Thermal	16 Points Required Required Required 11 11 11 11 11 11 11 11 11 11 11 11 11	POSSIBLY SOME - NEED TO CHECK RECORDS  Notes  ATTC TEMP-CONTROLLED SANS, PLEYLINS FOR OFTINAL AIR-RUN MADES, INCOTE-FRESS CONTAINMENT, AND VEHTINATION FANS AI CONTAINMENT AND VEHTINATION WATER-BASED WHEN POSSIBLE LOW/COTS (NEED TO STREET LOW/COTS (NEED TO STREET LOW/COTS (NEED TO STREET RANDY STREETER ORMINAL VOCS - NEED TO CHECK RECORDS RADON TESTED, COS MONTORED, INCREASED VEHTLATION NOT YET, BUT DOORS, DEFLINED, INCREASED VEHTLATION WATER-BASED WHEN FAMILY LOFTER AIMMENTATION SEVERAL PROCRAMMED ZONES (METHICAL INTELLIGENCE PLANN PROGRAMMED ZONES, DEFLINED, INTELLIGENCE PLANN ENTERINENLY OFTINIZED  NOTES INSULATION, VIEW & MOSSINE BARRIERS (NOTES) BUFFER SE  CHTAR RESULATION, VIEW & MOSSINE BARRIERS (NOTES) BUFFER SE  OVERALL BULLDING HAS LON SUBPRECABRE TO VICLUME BATO  STRUCTURAL BERKEDEDING OF OLD HOUSE WITH MEY POLICIASM TO MENTION OF THE STRUCK OF OLD HOUSE WITH MEY POLICIASM TO MENTION OF THE STRUCK OF OLD HOUSE WITH MEY POLICIASM TO MENTION OF THE STRUCK OLD HOUSE WITH MEY POLICIASM TO MENTION OF THE STRUCK OLD HOUSE WITH MEY POLICIASM TO MENTION OF THE STRUCK OLD HOUSE WITH MEY POLICIASM TO MENTION OF THE STRUCK OLD HOUSE WITH MEY POLICIASM TO MENTION OF THE STRUCK OLD HOUSE WITH MEY POLICIASM TO MENTION OF THE STRUCK OLD HOUSE WITH MEY POLICIASM TO MENTION OF THE STRUCK OLD HOUSE WITH MEY POLICIASM TO MENTION OF THE STRUCK OLD HOUSE WITH MEY POLICIASM TO MENTION OF THE STRUCK OLD HOUSE WITH MEY POLICIASM TO MENTION OF THE STRUCK OLD HOUSE WITH MEY POLICIASM TO MENTION OF THE STRUCK OLD HOUSE WITH MEY POLICIASM TO MENTION OF THE STRUCK OLD HOUSE WITH MEY POLICIASM TO MENTION OF THE STRUCK OLD HOUSE WITH MEY POLICIASM TO MENTION OF THE STRUCK OLD HOUSE WITH MEY POLICIASM TO MENTION OF THE STRUCK OLD HOUSE WITH M
7   11   1   1   1   1   1   1   1   1	Credit 7 Indoor Prevent 1 Prevent 2 Credit 3.1 Credit 3.2 Credit 4.2 Credit 4.2 Credit 4.2 Credit 4.2 Credit 4.1 Credit 5.1 Credit 5.1 Credit 5.2 Credit 5.1 Credit 5.1 Credit 5.1 Credit 5.1 Credit 5.2 Credit 5.1 Credit 5.2 Credit 1.2 Credit 1.4 Credit 1.5 Credit 1	Certified Wood  Environmental Quality  Minimum IAG Performance Environmental Tobsoo Smoke (ETS) Control  Outdoor Air Delivery Monitoring Increased Ventilistion Construction IAG Management Plan, During Construction Construction IAG Management Plan, Better Occupancy Low-Emitting Materials, Anteness & Sealaris Low-Emitting Materials, Paints & Coatings Low-Emitting Materials, Control Construction Low-Emitting Materials, Control Control Low-Emitting Materials, Control Low-Emitting Materials, Control Control Emitty of systems, Lighting Control Control Delight of Systems, Systems Thermal Commont, Lesting Thermal Commont, Lesti	15 Points Required Required 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	POSSIBLY SOME - NEED TO CHECK RECORDS  Notes  ATTIC TEMP-CONTROLLED FANS, PLENUMS FOR OPTIMAL AIR-FLOM MASKER, NECTYLE-PRESS CONTRINNION, AND VEHTLATION FANS AIR CONTRINNION AND VEHTLATION MATERIALED WHY POSSIBLE LOPA-VICES (NEED TO SERVE OF THE TO THE T
7   11   W   1   1   1   1   1   1   1	Credit 7 Indoor Prevent 1 Prevent 2 Credit 1 Credit 3.1 Credit 3.2 Credit 4.2 Credit 4.2 Credit 4.2 Credit 4.1 Credit 5.2 Credit 4.1 Credit 5.2 Credit 4.1 Credit 5.2 Credit 7.2 Credit 7.2 Credit 7.2 Credit 7.2 Credit 7.2 Credit 1.1 Credit 5.2 Credit 1.1 Credit 5.2 Credit 1.2 Credit 1.3 Credit 1.2 Credit 1.3 Credit 2 Region Credit 1.1	Certified Wood  Environmental Quality  Minimum IAQ Performance Environmental Tobasoo Smoke (ETS) Control  Outdoor Air Delivery Mentioning Increased Ventilation Controlation Increased Ventilation Controlation Increased Ventilation Controlation Increased Ventilation Low-Emitting Materials, Adnessives & Sealants Low-Emitting Materials, Adnessives & Sealants Low-Emitting Materials, Flooring Systems Low-Emitting Materials, Administration of Systems Low-Emitting Materials, Administ	16 Points Required Required 11 11 11 11 11 11 11 11 11 11 11 11 11	POSSIBLY SOME - NEED TO CHECK RECORDS  Notes  ATTC TEMP-CONTROLLED SANS, PLEYUMS FOR OFTIMAL AIR-RUN MADES, INCOMPRESS CONTAINMENT, AND VEHTHATION FAMES AI CONTAINMENT AND VEHTHATION WATER-BASED WHICH POSSIBLE LOW/COES (NEED TO CHECK TO CHECK RECORDS RALL-WOOD, MINMALL VOCS - NEED TO CHECK RECORDS RALDWAYS ATTEMPTED MINMALL VOCS - NEED TO CHECK RECORDS RADON TESTED, COS MONTORED, INCREASED VEHTHATION WATER-BASED WHICH POSSIBLE LOW/COES (NEED MADE) VEHTHATION RADON TESTED, COS MONTORED, INCREASED VEHTHATION SEVERAL PROCRAMMED ZOINES (METHICIAL INTELLIGENCE FLAW) PROCRAMMED ZOINES (METHICIAL INTELLIGENCE FLAW) RECORDANIES (DOINES, DEFINITION INTELLIGENCE FLAW) RECORDANIES (DOINES, DEFINITION INTELLIGENCE FLAW) RECORDANIES (DOINES, DEFINITION INTELLIGENCE FLAW) RECORDANIES OF TOWNES WITH HARD VEHTHATION VEHTAL BULLINGS FAS LOW SUBPACE-AREA TO VOLUME RATIO STRUCTURAL RESPRECIEDORS OF CLICK HOUSE WITH MEN'S POLICIAS INTELLIGENCE FOR THE CONTROLLED FOR TH
7   11   W   1   1   1   1   1   1   1	Credit 7 Indoor Prana 1 Prana 1 Prana 1 Prana 1 Prana 2 Credit 1 Credit 2 Credit 2 Credit 4.1 Credit 4.2 Credit 4.2 Credit 4.1 Credit 5.1 Credit 5.1 Credit 5.1 Credit 5.1 Credit 5.1 Credit 5.2 Credit 7.1 Credit 7.2 Credit 7.1 Credit 7.1 Credit 7.2 Credit 7.1 Credi	Certified Wood  Environmental Quality  Minimum IAG Performance  Environmental Tobsooo Smoke (ETS) Control  Outdoor Air Delivery Monitoring  Increased Ventilation  Construction IAG Management Plan, During Construction  Construction IAG Management Plan, Entire Occupancy  Low-Emitting Materials, Antenies & Sealaris  Low-Emitting Materials, Pains & Coatings  Low-Emitting Materials, Pains & Coatings  Low-Emitting Materials, Composite Wood & Aprilber Products  Indoor Chemical & Pollutant Source Control  Controllability of systems, Uppting  Controllability of systems, Uppting  Controllability of systems, Uppting  Controllability of systems, Uppting  Thermal Comfort, Verification  Daylight & Views, Daylight TS% of Boaces  Source of Composite Wood & Coating Source	16 Points Required Required 11 11 11 11 11 11 11 11 11 11 11 11 11	POSSIBLY SOME - NEED TO CHECK RECORDS  Notes  ATTIC TEMP-CONTROLLED FANS, PLENUMS FOR OPTIMAL AIR-FLOM MASKER, NECTYLE-PRESS CONTRINNION, AND VEHTLATION FANS AIR CONTRINNION AND VEHTLATION MATERIALED WHY POSSIBLE LOPA-VICES (NEED TO SERVE OF THE TO THE T
7   111   N   1   1   1   1   1   1   1	Creat 7 Indoor Press 1 Press 2 Creat 1 Creat 2 Creat 2 Creat 2 Creat 3 Creat 4 Creat 5 Creat 5 Creat 5 Creat 6	Certified Wood  Environmental Quality  Minimum IAQ Performance Environmental Tobasoo Smoke (ETS) Control  Outdoor Air Delivery Monitoring Increased Ventilation Construction IAQ Management Flas, During Construction Construction IAQ Management Flas, During Construction Construction IAQ Management Flas, Series Coccupancy Low-Emitting Materials, Adnessives & Seatiants Low-Emitting Materials, Flooring Systems Indooring Controllability of Systems, Thermal Comfort Design Flooring Thermal Comfort, Lesting	16 Points Required Required 11 11 11 11 11 11 11 11 11 11 11 11 11	POSSIBLY SOME - NEED TO CHECK RECORDS  Notes  ATTC TEMP-CONTROLLED FAMS, PLEYLINS FOR OFFINAL AIR-TLOW MADES, INCOME PROSESS CONTAININGT, AND VEHTILATION FAMS AL CONTAININGTH AND VEHTILATION WATER-BASED WHICH POSSIBLE LOW/COES (VINERIA DOSINIC SOME) MATER-BASED WHICH POSSIBLE LOW/COES (VINERIA DOSINIC SOME) MALHINGO, MIMMAL VOCS — NEED TO CHECK RECORDS RADON TESTED, COS MONTORED, INCREASED VEHTILATION MAYN'S ATTEMPTED MIMMAL VOCS — NEED TO CHECK RECORDS RADON TESTED, COS MONTORED, INCREASED VEHTILATION SEVERAL PROCEDURS, DEFINITION INTELLIGENCE FLAVOR PROGRAMMED ZOINES, DEFINITION INTELLIGENCE FLAVOR SEVERAL PROCEDURS, DEFINISION ENTREMINELY OFTHINGED  NOTES INVESTED, TO SAME TO SAME PROPRIES (NOTHING BLEFER SER  NOTES INVESTED, VINER WITH AIR PROCEDURS OFTHINGS STRUCTURAL REPROCEDURS OF CLIC HOUSE WITH NEW POLICIARIS ONNER PREPARADIO TO TAKE BEED AS DOME.  NOTES PREPARADIO TO TAKE BEED AS DOME.  NOTES PREPARADIO TO TAKE BEED AS DOME.  NOTES PREPARADIO TO TAKE BEED AS DOME.  PROCESSORY OF CONTROL WITH NEW POLICIARIS TO THE PROCESSORY OF SECRETARIO. IS ONNER PREPARADIO. TO TAKE BEED AS DOME.
7   11   W   1   1   1   1   1   1   1	Credit 7 Indoor Press 1 Press 2 Credit 1 Credit 2 Credit 2 Credit 1 Credit 3 Credit 1	Certified Wood  Environmental Quality  Minimum IAG Performance  Environmental Tobsooo Smoke (ETS) Control  Outdoor Air Delivery Monitoring  Increased Ventilation  Construction IAG Management Plan, During Construction  Construction IAG Management Plan, Entire Occupancy  Low-Emitting Materials, Antenies & Sealaris  Low-Emitting Materials, Pains & Coatings  Low-Emitting Materials, Pains & Coatings  Low-Emitting Materials, Composite Wood & Aprilber Products  Indoor Chemical & Pollutant Source Control  Controllability of systems, Uppting  Controllability of systems, Uppting  Controllability of systems, Uppting  Controllability of systems, Uppting  Thermal Comfort, Verification  Daylight & Views, Daylight TS% of Boaces  Source of Composite Wood & Coating Source	16 Points Required Required 11 11 11 11 11 11 11 11 11 11 11 11 11	POSSIBLY SOME - NEED TO CHECK RECORDS  Notes  ATTC TEMP-CONTROLLED FAMS, PLEYLINS FOR OFFINAL AIR-TLOW MADES, INCOME PROSESS CONTAININGT, AND VEHTILATION FAMS AL CONTAININGTH AND VEHTILATION WATER-BASED WHICH POSSIBLE LOW/COES (VINERIA DOSINIC SOME) MATER-BASED WHICH POSSIBLE LOW/COES (VINERIA DOSINIC SOME) MALHINGO, MIMMAL VOCS — NEED TO CHECK RECORDS RADON TESTED, COS MONTORED, INCREASED VEHTILATION MAYN'S ATTEMPTED MIMMAL VOCS — NEED TO CHECK RECORDS RADON TESTED, COS MONTORED, INCREASED VEHTILATION SEVERAL PROCEDURS, DEFINITION INTELLIGENCE FLAVOR PROGRAMMED ZOINES, DEFINITION INTELLIGENCE FLAVOR SEVERAL PROCEDURS, DEFINISION ENTREMINELY OFTHINGED  NOTES INVESTED, TO SAME TO SAME PROPRIES (NOTHING BLEFER SER  NOTES INVESTED, VINER WITH AIR PROCEDURS OFTHINGS STRUCTURAL REPROCEDURS OF CLIC HOUSE WITH NEW POLICIARIS ONNER PREPARADIO TO TAKE BEED AS DOME.  NOTES PREPARADIO TO TAKE BEED AS DOME.  NOTES PREPARADIO TO TAKE BEED AS DOME.  NOTES PREPARADIO TO TAKE BEED AS DOME.  PROCESSORY OF CONTROL WITH NEW POLICIARIS TO THE PROCESSORY OF SECRETARIO. IS ONNER PREPARADIO. TO TAKE BEED AS DOME.

#### JT Wunderlich 2002

Southeastern Pennsylvania























JT Wunderlich 2002

Southeastern Pennsylvania 2000sf remodel +1500sf new













# JT Wunderlich PhD See more in Wunderlich Architecture and Urban Design



