

TOWNSHIP OF FERGUSON

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FERGUSON TOWNSHIP PLANNING COMMISSION REGULAR MEETING AGENDA Monday, March 9, 2020 6:00 PM

- I. Call To Order
- II. Approval of Regular Meeting Minutes
- III. Citizen Input
- IV. Land Development Plans
- V. Community Planning
 - A. Ferguson Township Zoning Map Amendments

On November 18, 2019, Ferguson Township Board of Supervisors held a public hearing and amended Chapter 22, Subdivision and Land Development Ordinance and Chapter 27, Zoning Ordinance. The next step in amending the zoning ordinance is amending the Ferguson Township Zoning Map. Amending the zoning map modifies the district boundaries in areas identified by the Board during their February 3, 2020 meeting.

The areas identified by the Board that will be discussed tonight are listed below: The zoning map amendment is a technical, non-substantive exercise that will replace the current zoning district classifications of certain properties that were identified during the first phase of this process.

The areas that have been identified during the first phase of the rewrite process are outlined below and maps of these areas are attached to the agenda, along with a timeline outlined by Staff.

- Ridge Overlay District (Rural Residential)
- Harner Farm Lots (Rural Agricultural)
- Penn State University lands (Agricultural Research)
- The Meadows (Rural Agricultural)
- Rock Springs (Rural Agricultural)

Staff Recommendation: Staff recommends ROD be changed to FG, Harner Farm Lots be changed to R1, PSU Lands changed to AR, Meadows be changed to R1 and Rock Springs be changed to R1.

Planning Commission Action: Review each zoning district and give their recommended of map amendments to the Board of Supervisors for review.

V. Planning Trends

A. Planning and Zoning Staff receive monthly newsletters from the American Planning Association (APA) as part of our membership. Upon receiving the newsletter, Staff will include it in the agenda for the Planning Commission to read and discuss. The goal of this addition to the Planning Commission agenda is to keep the Commission up-todate on trends and innovation in local land-use and development regulation.

The Pseudoscience of Parking Requirements

February's article summarizes the social, economic, and environmental costs of minimum off-street parking requirements and explains how removing parking minimums can translate into community benefits.

VI. Official Reports and Correspondences

- A. Board of Supervisors
- B. CRPC Report
- C. Land Development Plans
- D. Staff Updates
- VII. Adjournment

FERGUSON TOWNSHIP PLANNING COMMISSION REGULAR MEETING MINUTES Monday, FEBRUARY 10, 2019 6:00 PM

ATTENDANCE

The Planning Commission held its Regular meeting of the month on Monday, February 10, 2020 at the Ferguson Township Municipal Building. In attendance were:

Commission:

Jeremie Thompson- Chair Person Jerry Binney- Vice Chair Rob Crassweller- Secretary Bill Keough Ralph Wheland Shannon Holliday Dr. Ellen Taricani Lisa Rittenhouse-Alternate

Staff:

Jenna Wargo, Planning & Zoning Director Jeff Ressler, Zoning Administrator Kristina Aneckstein, Community Planner

Others in attendance were: Summer Krape, Recording Secretary; Laura Dinnini, Ferguson Township Resident & Board of Supervisors member; Susan Venegoni, State College Borough Resident/Ferguson Township rental property owner; Wes Glebe, Ferguson Township Resident; Christine Bailey, Ferguson Township Resident; Bill Heckinger Ferguson Township Resident; Chris Summers, Ferguson Township Resident.

I. CALL TO ORDER

II. Mr. Jeremie Thompson called the Ferguson Township Planning Commission's regular meeting to order on Monday, February 10, 2020 at 6:01 pm.

III. IV. APPROVAL OF REGULAR MEETING MINUTES FROM JANUARY 13, 2019

Mr. Thompson called for a motion to approve the regular meeting minutes from January 13, 2020. Mr. Crassweller made a correction under "Adjournment" needs to be changed to "call for the motion". Mr. Bill Keough made a motion to approve, Mr. Ralph Wheland seconded the motion, and the motion passed unanimously. Mr. Thompson also called for a motion to approve the meeting minutes for the organizational meeting. Mr. Wheland made a motion to approve, Mr. Keough seconded, and the motion passed unanimously.

V. CITIZEN INPUT

VI. COMMUNITY PLANNING

a. TERRACED STREETSCAPE DISTRICT DISCUSSION

Ms. Wargo stated that the Township is looking to get a 30,000 foot level for the Terraced Streetscape District. Staff is asking the Planning Commission for direction so staff knows how to draft the Request for Proposal (RFP) to get out to consultants. Ms. Wargo stated that the Commission should've looked at both the CRPA Comprehensive Plan and the CRPA Strategic Plan as they both play a key role in this decision. Ms. Wargo stated that she will be asking the Commission a set of questions to get direction for the RFP. Ms. Wargo asked the Commission what is the overall goal for this process an entire rewrite, are there parts that we should maintain? Mr. Wheland asked if anyone has tried to do anything in the Terraced Streetscape District. Ms. Wargo and Mr. Jeff

Ressler stated that there has been four submissions, three minor alteration plans, and one land development plan. The Commission stated that building height and parking access were some of the issues that were discussed previously. The Commission also discussed the Penn State properties and the possible right of ways, and the critical stormwater basin that is located in the center of the district. It was decided to get more overall neighborhood involvement, contact sensitive buildings, and transportation in the entire area. Mr. Thompson suggested testing on the environmental/stormwater and how new development would impact that.

Stakeholders in that area, Penn State, the Borough CRPA, PennDOT, and CATA. The Commission stated that business owners, property owners, realtors, commuters should all be included in this discussion. Mr. Keough voiced his concern about the connector piece between the Borough and Ferguson Township. The Commission discussed traffic pattern and traffic is a big stakeholder issue. Ms. Holliday asked if this would impact Ferguson Township tax payers in a positive or negative manner. What is the target demographic for this district is it homeownership, rentals, a retirement community? Mr. Keough stated that there was discussion of rental apartments and condos, single and family graduate students. Professional office space, such as a doctor or dentist offices but also service industry, restaurant environment on the first floor or top floor of a building.

Ms. Wargo asked the Commission what type of zoning would best work for the area. She suggested Euclidean or Form-Based. Ms. Wargo explained what both types of zoning are and shared a video of Ms. Mary Madden who is a State College Borough resident highlighting Form-Based zoning. Ms. Wargo noted that currently the Township has a hybrid zoning which is some Euclidean zoning and some Form-Based we have some incentive programs for certain districts. Mr. Crassweller stated that he thought the previous overall goal was mix used/walkable. Ms. Wargo stated that staff has sat with business owners and discussed this area and business is a major economic driver. Ms. Wargo also noted that most of the parking permits for this area are for owner occupied properties and not rental properties. Which brings the question of are students using their cars or just walking.

Lastly Ms. Wargo asked if the Commission have visited other places like this. Ms. Wargo stated that in Athens, Georgia there is a street comprised of old warehouses that were transformed into shops, restaurants, and apartments. The Commission decided that a full rewrite would work best. Ms. Wargo stated that the next steps will be to discuss this with the Board of Supervisors on February 18th and get some direction from them, Staff will begin drafting/requesting RFP's, and Ms. Wargo will be attending a conference in Houston and would like to take the RFP with her to get her colleagues point of views.

b. FERGUSON TOWNSHIP ZONING MAP AMENDMENTS

Ms. Wargo stated that staff completed textual amendments, and phase 2 would to make amendments to the zoning map. Certain areas that have been highlighted in the textual amendments, staff driven, and variance requests to be rezoned. These districts include the Pine Grove Mills Village, Meadows, Rock Springs, Penn State Ag land, Ridge Ferguson Township Planning Commission Monday, February 10, 2020 Page 3

overlay, and Industrial districts. Mr. Keough wants the PGM small area plan Committee to be up and running so they can help on how to best handle the village district since they have put so much time and work into this. Ms. Wargo stated suggested that if the Commission has a light agenda we will adjourn to a work session to work on these topics. It was decided that the Pine Grove Mills Village and Industrial would be discussed on their own nights. The Commission would combine the Meadows, Rock Spring, and Harner together and the Ridge Overlay and Penn State Ag land would be discussed together.

VII. OFFICIAL REPORTS AND CORRESPONDENCE

a. BOARD OF SUPERVISORS

Ms. Wargo stated that the BOS made a motion to come up with a PGM village committee, they also discussed the crosswalks in the village which was send to staff to review.

b. CRPC REPORT

Ms. Taricani stated that she attended the CRPC meeting and they discussed the new Patton Crossing. She stated that an Aldi's will be put in. They also discussed Penn State's new west campus building Ms. Taricani stated that they are planning a nice area. She also told the Commission that there will be a special winter bike ride held Friday, February 14th.

c. LAND DEVELOPMENT PLANS

Ms. Aneckstein stated that no new land development plans have been submitted. Staff received the Sheetz, Orchard View, and Harner Farm Replot and are currently reviewing the plans. She stated that staff is hoping to have on the next Commission agenda for approval to the BOS. Mr. Binney asked if it would be possible to have the applicant's traffic engineer and staff engineer present to discuss the traffic aspect of the plans.

d. STAFF UPDATES

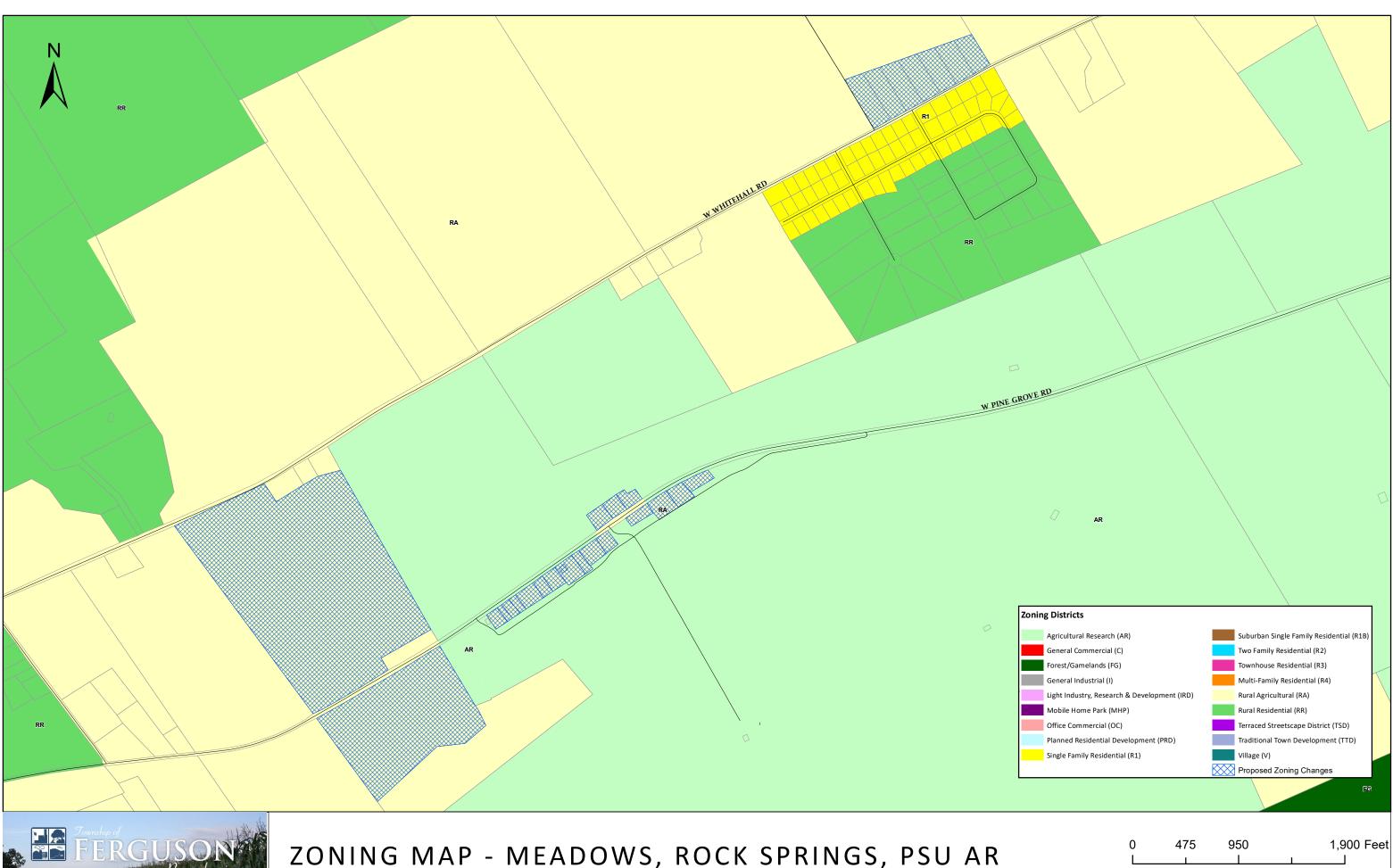
Ms. Wargo stated that on April 25th CRPA is planning a Commission training session. She also noted that the ABC email policy was included in the agenda and she asked the Commission members to review, sign, and return it to staff.

X. ADJOURNMENT

Mr. Thompson made a motion to adjourn the February 10, 2020 Planning Commission meeting at 8:00 pm.

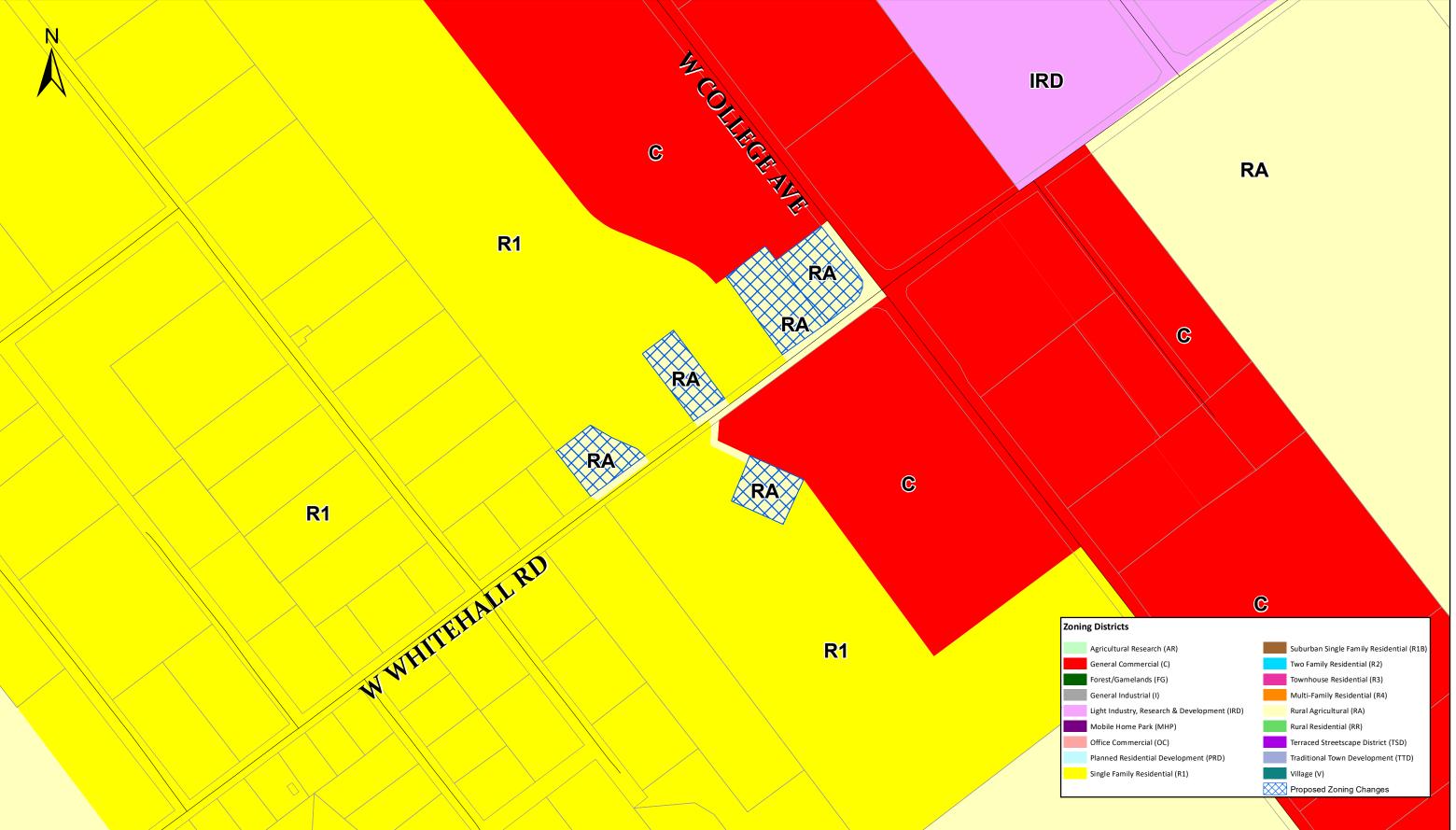
Respectfully Submitted,

Rob Crassweller, Secretary For the Planning Commission





ZONING MAP - MEADOWS, ROCK SPRINGS, PSU AR

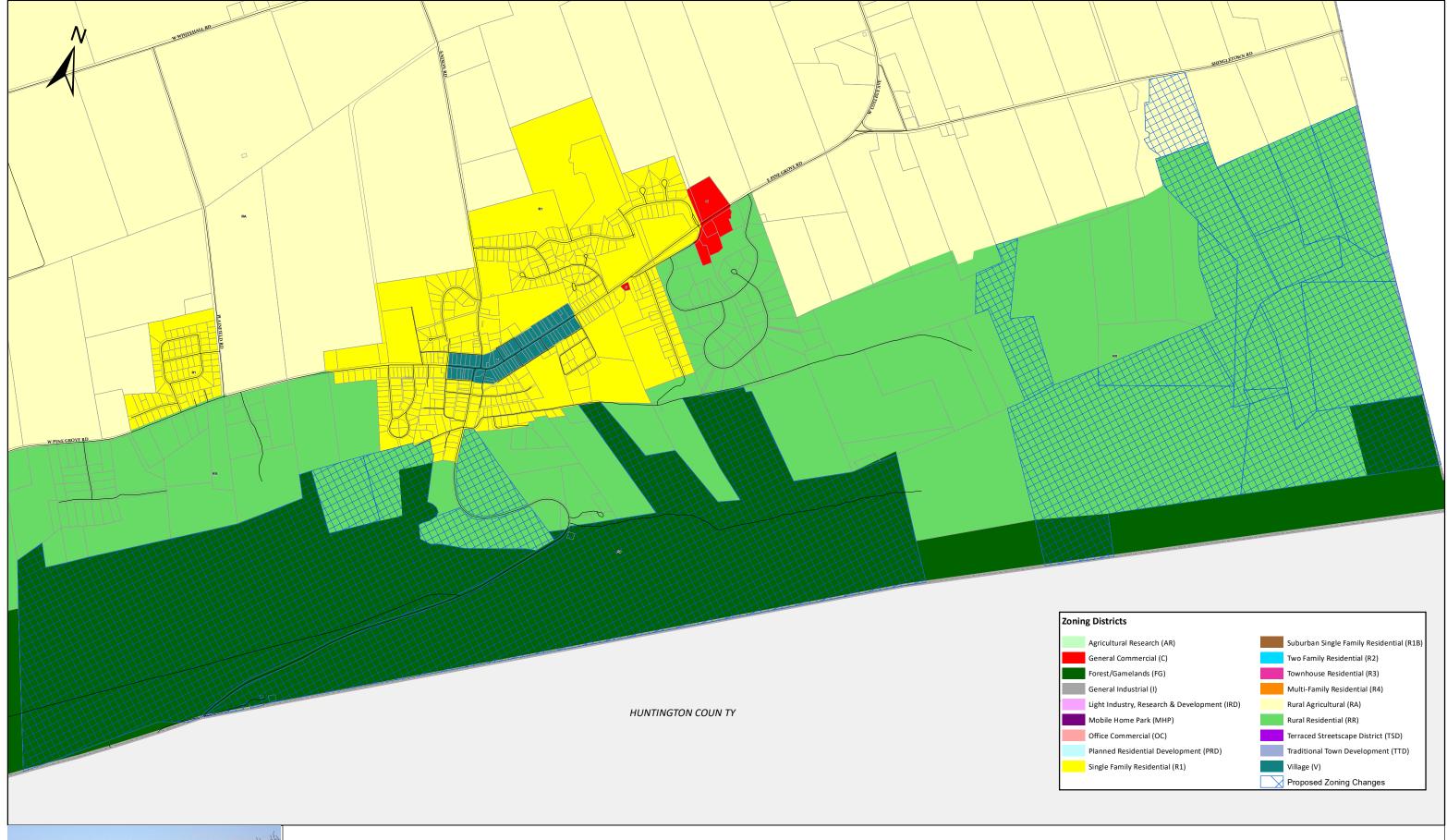




ZONING MAP - HARNER FARM PROPERTIES

Agricultural Research (AR)		Suburban Single Family Residential (R1B)	
General Commercial (C)		Two Family Residential (R2)	
Forest/Gamelands (FG)		Townhouse Residential (R3)	
General Industrial (I)		Multi-Family Residential (R4)	
Light Industry, Research & Development (IRD)		Rural Agricultural (RA)	
Mobile Home Park (MHP)		Rural Residential (RR)	
Office Commercial (OC)		Terraced Streetscape District (TSD)	
Planned Residential Development (PRD)		Traditional Town Development (TTD)	
Single Family Residential (R1)		Village (V)	
	\boxtimes	Proposed Zoning Changes	

0	200	400	800 Feet



ZONING MAP - RIDGE OVERLAY PROPERTIES

Agricultural Research (AR)	Suburban Single Family Residential (R1B)
General Commercial (C)	Two Family Residential (R2)
Forest/Gamelands (FG)	Townhouse Residential (R3)
General Industrial (I)	Multi-Family Residential (R4)
Light Industry, Research & Development (IRD)	Rural Agricultural (RA)
Mobile Home Park (MHP)	Rural Residential (RR)
Office Commercial (OC)	Terraced Streetscape District (TSD)
Planned Residential Development (PRD)	Traditional Town Development (TTD)
Single Family Residential (R1)	Village (V)
	Proposed Zoning Changes
0 1,000 2,00	00 4,000 Feet

§27-205. District Quicks.

§205.3 District – Agricultural Research (AR)

AREA AND BULK CATEGORY	PRINCIPAL USES	
1	Administrative Office Buildings (associated with Advanced Agricultural Research)	Ρ
1	Advanced Agricultural Research	Ρ
1	Agriculture	Р
1	Agriculture/Environmental Education Program	Ρ
1	Any Use Owned or Managed by the Pennsylvania Department of Conservation and Natural Resources (PA DCNR) or the State Game Commission	Ρ
1	Bird and Wildlife Sanctuaries/Fish Hatcheries	Ρ
1	Exhibit Halls and Museums	Ρ
1	Forestry	Ρ
1	General Natural Resource Research	Ρ
1	General Weather, Radio and Satellite Research	Ρ
1	Nature Education Centers	Ρ
1	Recreation Facilities for Employees, Faculty and Students	Ρ
2	Farm Markets	С
2	Tasting Facilities	Ρ
3	Archery and Shooting Ranges, Indoor	P
3	Community Gardens	Р
3	Emergency Services	Р
3	Essential Services – Type 1	Р
3	Park and Outdoor Recreational Facilities, Neighborhood, Public	Ρ
3	Park and Outdoor Recreational Facilities, Community, Public	Ρ
3	Park and Outdoor Recreational Facilities, Regional, Public	Ρ
3	Places of Assembly, Community	Ρ
3	Places of Assembly, Regional	Ρ
3	Solar Energy Systems (PSES)	С
4	Communication Facilities	Ρ
4	Communications Towers	Ρ
4	Wind Energy Systems	С

ACCESSORY USES							
Use			nd B jorie				
	1	2	3	4			
Accessory Use Customarily Incidental to the Specified Principal Use	Ρ	Ρ	Ρ	Ρ			
Agriculture/Environmental Education Program	Ρ	Ρ	Ρ				
Agritourism	Ρ	Ρ	Ρ				
Agriculture	Ρ	Ρ	Ρ				
Building- and Ground-Mounted Solar and/or Wind Systems	Ρ	Ρ	Ρ	Ρ			
Community Gardens	Ρ	Ρ	Ρ	Ρ			
Composting – Small Scale	Ρ	Ρ	Ρ	Ρ			
Day and Overnight Camping	Ρ		Ρ				
General Storage to include Boat and RVs	Ρ						
Farm Structures, Traditional-Scale	Ρ	Ρ	Ρ	Ρ			
Farm Structures, Non-Traditional-Scale	Ρ	Ρ	Ρ	Ρ			
Food Trucks	Ρ	Ρ	Ρ				
Incinerators	Ρ						
Offices, Laboratories, Work Areas Related to Administrative/Research Activities	Ρ	Ρ					
Silos	Ρ	Ρ					
Temporary Facilities Related to Advanced Agricultural Research	Ρ	Ρ					
Welding Shops, Small Engine Repair	Ρ						

				A	REA AND	BULK CA	TEGORIE	S
DIN	IENSIONS			1	2	3	4	5
		G	Lot Size	10 ac	2 ac	5 ac	n/a	n/a
	Lot Width		at Building Setback Line	300 ft	150 ft	150 ft	150 ft	n/a
_		٥	at Street Line	300 ft	150 ft	150 ft	150 ft	n/a
Minimum	Setback	O	Front Yard, for Principal Use on Local/Collector Street	50 ft	50 ft	50 ft	500 ft	n/a
4		o	Front Yard, for Principal Use on Arterial Street	50 ft	50 ft	50 ft	500 ft	n/a
		0	Side Yard, for Principal Use	100 ft	100 ft	100 ft	500 ft	n/a
		G	Rear Yard, for Principal Use	75 ft	75 ft	75 ft	500 ft	n/a
_	Height	G	Principal Structure	40 ft	40 ft	40 ft	200 ft	n/a
mum	Height	0	Accessory Structure	40 ft	40 ft	60 ft	20 ft	n/a
Maximum	Coverage		Building	10%	30%	n/a	n/a	n/a
2	ouverage		Impervious Surface	10%	50%	10%	n/a	n/a

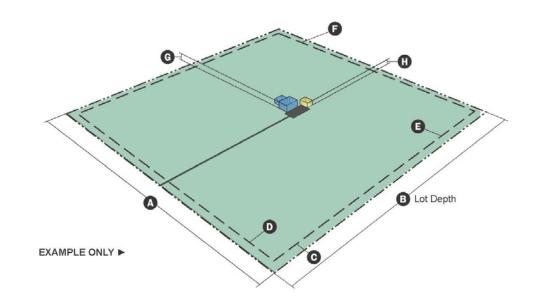
AREA AND BULK CATEGORIES:

1 - agricultural, conservation, research, and institutional uses

2 - agriculture-related businesses

3 - non-agricultural/non-residential/other uses

4 - utility and communication facilities



PART 2 District Regulations

SE = Use by Special Exception

§27-205. District Quicks.

§205.5 District – Single Family Residential (R1)

AREA AND BULK CATEGORY	PRINCIPAL USES	
1	Forestry	Р
1	Park and Outdoor Recreational Facilities, Regional, Public	Р
2	Single-Family Detached Dwellings	Ρ
3	Group Homes	Ρ
3	Model Homes	С
4	Community Garden	Ρ
4	Park and Outdoor Recreational Facilities, Neighborhood, Public	Р
4	Park and Outdoor Recreational Facilities, Community, Public	Р
4	Places of Assembly, Community	Ρ
4	Schools, Public or Private	С
5	Emergency Services	Ρ
5	Essential Services – Type 1	Ρ

ACCESSORY USES								
Use	10.0			l Bu ries				
	1	2	3	4	5			
Accessory Use Customarily Incidental to the Specified Principal Use	Р	Ρ	Ρ	Ρ	Р			
Bed and Breakfast (1-3 rooms)		Ρ						
Building- and Ground-Mounted Solar Systems	Ρ	Ρ	Ρ	Ρ	Ρ			
Building- and Ground-Mounted Wind Systems	С	С	С	С	С			
Community Garden	Ρ	Ρ	Ρ	Ρ	Ρ			
Family Child-Care Homes		С						
Farm Markets	Ρ			Ρ				
Group Child-Care Homes		С						
Home-Based Business, No-Impact (including Farm-Based Business, No Impact)	Γ	P						
Home Occupation – Type 1		Ρ						
Short-Term Rentals		Ρ						
Raising of Chickens		Ρ						
Tutoring	Τ	Ρ		Ρ				

				P	REA AND B	ULKCA	regorie	s
DI	IENSIONS			1	2	3	4	5
		G	Lot Size	10 ac	10,000 sf	1 ac	2 ac	n/a
	Lot Width		at Building Setback Line	300 ft	80 ft	100 ft	100 ft	100 ft
_	LOUVIGUI	۵	at Street Line	300 ft	50 ft	75 ft	100 ft	75 ft
Minimum	Setback	0	Front Yard, for Principal Use on Local/Collector Street	50 ft	25 ft	25 ft	50 ft	50 ft
2		0	Front Yard, for Principal Use on Arterial Street	50 ft	50 ft	50 ft	50 ft	50 ft
		Ø	Side Yard, for Principal Use	100 ft	10 ft	10 ft	30 ft	30 ft
		0	Rear Yard, for Principal Use	100 ft	30 ft	30 ft	50 ft	50 ft
-	Height	G	Principal Structure	40 ft	40 ft	40 ft	40 ft	40 ft
unu	rieigiit	0	Accessory Structure	n/a	24 ft	24 ft	24 ft	24 ft
Maximum	Coverage		Building	n/a	30%	30%	30%	n/a
~	Coverage		Impervious Surface	5%	50%	50%	50%	n/a

AREA AND BULK CATEGORIES:

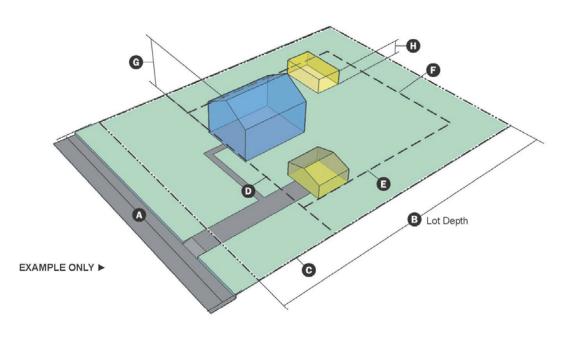
1 - conservation activities

2 - dwellings (off-site sewage)

3 - other residential uses (on-lot sewage)

4 – non-residential uses

5 – essential and emergency services



PART 2 District Regulations

SE = Use by Special Exception

§27-205. District Quicks.

§205.1 District – Rural Agriculture (RA)

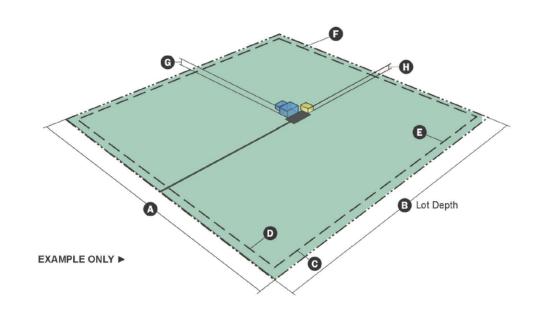
AREA AND BULK CATEGORY	PRINCIPAL USES		ACCESSORY USES
1	Agriculture	Р	
1	Agriculture Related Production	Р	Use
1	Bird and Wildlife Sanctuaries/Fish Hatcheries	Р	
1	Commercial Hunting Preserves	P	Accessory Use Customarily Incidental to the Specified
1	Communication Towers	P	Agriculture/Environmental Education Program
1	Conservation Areas	P	Agriculture
1	Equestrian Facility (50 acres or greater)	P	Agritourism
1	Forestry	P	Bed and Breakfast (1-3 rooms)
	Landscape and Garden Center – Non-Retail (50		Bed and Breakfasts (10 rooms max.)
1	acres or greater)	Р	Building- and Ground-Mounted Solar and/or Wind Syst
1	Cemeteries	Р	Cideries
1	Cideries	P	Commercial Hunting Preserve
1	Community Gardens	P	Communication Towers
1	Country Club	C	Community Garden
1	Equestrian Facility	P	Community-Supported Agriculture Delivery Station
1		P	Composting – Small Scale
	Essential Services – Type 1		Day and Overnight Camping
1	Golf Course	С	Dwelling Units
1	Landscape and Garden Center – Retail	Ρ	Essential Services – Type 2
1	Park and Outdoor Recreational Facilities,	Р	Family Child-Care Homes
	Neighborhood, Public Park and Outdoor Recreational Facilities,		Farm Cafés
1	Community, Public	P	Farm Markets
	Park and Outdoor Recreational Facilities.	_	Farm Stands by Road <2,000 SF
1	Regional, Public	Р	Farm Stands by Road >2,000 SF
1	Places of Assembly, Community	Ρ	Farm Structures, Traditional-Scale
1	Places of Assembly, Regional	С	Farm Structures, Non-Traditional-Scale
	Single-Family Detached Dwelling on Non-		Food Trucks
1	Subdivided Lot – see Baseline Example Scenario	Р	General Storage to include Boat and RVs
	and Example Scenario D		Group Child-Care Homes
1	Solar Energy Systems (PSES)	Р	Home-Based Business, No-Impact (including Farm-Ba
1	Water Production Facilities	Ρ	No Impact)
1	Wind Energy Systems	Ρ	Home Occupation – Type 1
2	Emergency Services	Ρ	Home Occupation – Type 2
2	Farm Cafés	С	Horse Riding Stables/Riding Academies
2	Farm Markets	С	Incinerators, agricultural
2	Kennels	Р	Kennels
2	Pet Care Services Facility	С	Pet Care Services Facility
	Single-Family Detached Dwelling (one for every	-	Raising of Chickens
2	50 acres of a primary use as determined and		Retail Establishments, Agriculture-Supported
2	calculated before subdivision into smaller	Р	Retail Establishments, Value-Added Agriculture
	separate lots – see Example Scenario C)		Non-Commercial Keeping of Livestock
2	Tasting Facilities	Ρ	Short-Term Rentals
2	Veterinary Offices/Clinics	Ρ	Silos
			Sugar Shacks for Processing Sap from Trees on Differ
			Sugar Shacks for Processing Sap from Trees on Lot

Use	Area and Bulk Categories		
	1	2	
Accessory Use Customarily Incidental to the Specified Principal Use	P	Р	
Agriculture/Environmental Education Program	Р	1.000	
Agriculture	Р	Р	
Agritourism	P		
Bed and Breakfast (1-3 rooms)	P	Р	
Bed and Breakfasts (10 rooms max.)	P	Ρ	
Building- and Ground-Mounted Solar and/or Wind Systems	Р	Р	
Cideries	P		
Commercial Hunting Preserve	Р		
Communication Towers	Р	Р	
Community Garden	Р	Р	
Community-Supported Agriculture Delivery Station	Р	Р	
Composting – Small Scale	Р	Р	
Day and Overnight Camping	Р		
Owelling Units	Р		
Essential Services – Type 2	С		
Family Child-Care Homes	Р	Р	
Farm Cafés	Р	Р	
Farm Markets	Р	Р	
Farm Stands by Road <2,000 SF	Р		
Farm Stands by Road >2,000 SF	Р		
Farm Structures, Traditional-Scale	Р		
Farm Structures, Non-Traditional-Scale	Р		
Food Trucks	P	Р	
General Storage to include Boat and RVs	P	P	
Group Child-Care Homes	P	P	
Home-Based Business, No-Impact (including Farm-Based Business,			
No Impact)	P	Р	
Home Occupation – Type 1	Р	Р	
Home Occupation – Type 2	Р	Р	
Horse Riding Stables/Riding Academies	Р		
ncinerators, agricultural	Р		
Kennels	С		
Pet Care Services Facility	Р	Р	
Raising of Chickens		Р	
Retail Establishments, Agriculture-Supported	Р		
Retail Establishments, Value-Added Agriculture	Р		
Non-Commercial Keeping of Livestock	Р		
Short-Term Rentals	Р	Р	
Silos	P	P	
Sugar Shacks for Processing Sap from Trees on Different Lot	P	-	
Sugar Shacks for Processing Sap from Trees on Lot	Р	Р	
Fasting Facilities	P	P	
Jsual Farm Structures, including Barns, Greenhouses, and Single-	100		
and Two-Family Dwellings not to Exceed Three Dwelling Units on a Lot	1		
and Two-Family Dwellings not to Exceed Three Dwelling Units on a Lot - see Example Scenarios A, B, and E	<u> </u>		
and Two-Family Dwellings not to Exceed Three Dwelling Units on a Lot - see Example Scenarios A, B, and E /eterinary Offices/Clinics	Р	Р	
and Two-Family Dwellings not to Exceed Three Dwelling Units on a Lot - see Example Scenarios A, B, and E	P P	P	

				AREA AND BUL	K CATEGORIES
DIN	IENSIONS			1	2
		C	Lot Size	50 ac	1 ac min. 2 ac max.
	Lot Width		at Building Setback Line	60 ft	60 ft
_		۵	at Street Line	60 ft	60 ft
Minimum	Setback	Ø	Front Yard, for Principal Use on Local/Collector Street	50 ft	20 ft
		Ø	Front Yard, for Principal Use on Arterial Street	50 ft	50 ft
		0	Side Yard, for Principal Use	50 ft	30 ft
		0	Rear Yard, for Principal Use	50 ft	50 ft
	Height	G	Principal Structure	50 ft	50 ft
mum	Height	0	Accessory Structure	60 ft	40 ft
Maximum	Coverage		Building	n/a	30%
2	Coverage		Impervious Surface	10%	50%

AREA AND BULK CATEGORIES:

1 - usual farm structures and single- and two-family dwellings not to exceed three dwelling units on a lot 2 – other



P = Permitted Use by Right

PART 2 **District Regulations**

C = Conditional Use SE = Use by Special Exception

PART 2

District Regulations

§27-205. District Quicks.

§205.2 District – Rural Residential (RR)

AREA AND							1					AREA AN	١D
BULK	PRINCIPAL USES		ACCESSORY USES				D	IMENSIONS			1	2	Į
1	Agriculture	P		Are	a an	d Bulk	11		Θ	Lot Size	10 ac	3 ac	
1	Agriculture Related Production	С	Use	C	ateg	ories	11			Manadari Antona 1977			1
1	Bird and Wildlife Sanctuaries/Fish Hatcheries	P		1	2	3 4	11	1		at Building Setback Line	150 ft	150 ft	
1	Cideries/Wineries/Tasting Facilities	Р	Accessory Use Customarily Incidental to the Specified Principal	Р	Р	PP	11	Lot Width	۵	at Street Line	150 ft	150 ft	t
1	Commercial Hunting Preserves	С	Use				ξ		-	E 114 E 14		0.000.000	t
1	Conservation Areas	Р	Agriculture/Environmental Education Program	Р	1.1	P			O	Front Yard, for Principal Use on Local/Collector Street	50 ft	50 ft	
1	Equestrian Facility	P	Agriculture	Ρ		CP	- E		-			──	+
1	Forestry	P	Agritourism	Р	-	Р	11	Setback	O	Front Yard, for Principal Use	50 ft	50 ft	
1	Group Homes	P	Bed and Breakfasts (10 rooms max.)		Ρ	Р	11	Oetback		on Arterial Street	1000	00.10	
1	Park and Outdoor Recreational Facilities,	Р	Building- and Ground-Mounted Solar and/or Wind Systems	_	Ρ	PP			Θ	Side Yard, for Principal Use	50 ft	30 ft	T
	Regional, Public		Cemeteries		Ρ				Ø	Rear Yard, for Principal Use	75 ft	75 ft	t
1	Places of Assembly, Regional	С	Cideries/Wineries/Tasting Facilities	Р									+
1	Single-Family Detached Dwellings	Р	Commercial Hunting Preserve	С				Height	G	Principal Structure	50 ft	50 ft	4
2	Community Gardens	P	Community Garden	Р	Р	PP	L L	, in the second second	0	Accessory Structure	60 ft	40 ft	T
2	Emergency Services	Р	Community-Supported Agriculture Delivery Station	Ρ	Ρ	P	Maximum			Building	n/a	30%	T
2	Essential Services – Type 1	P	Composting – Small Scale	P	Ρ	P	Ξ	Coverage	-		5%	30%	$^{+}$
2	Farm Cafés	С	Day and Overnight Camping	Р	Ρ					Impervious Surface	5%	30%	1
2	Farm Markets	C	Dwelling Unit	P			1						
2	Landscape and Garden Center- Retail	P	Essential Services – Type 2	С	С	C		A AND BULK (
2	Landscape and Garden Center- Non Retail	С	Family Child-Care Homes	Р	Ρ	Р		•		vation activities			
2	Park and Outdoor Recreational Facilities, Neighborhood, Public	Р	Farm Cafés	Р	_			on-residential u wellings	ISES				
	Park and Outdoor Recreational Facilities,	_	Farm Markets	-	С			tility and comm	unicati	ion facilities			
2	Community, Public	P	Farm Stands by Road <2,000 SF	P	Ρ	C	- u	and comm	unicati	on aciales			
2	Personal Care Homes, Large	Р	Farm Stands by Road >2,000 SF	Ρ	Ρ	P							
2	Pet Care Services Facility	С	Farm Structures, Traditional-Scale	Ρ	Ρ								
2	Places of Assembly, Community	P	Farm Structures, Non-Traditional-Scale	С	С								
2	Solar Energy Systems (PSES)	С	Food Trucks	Р	Ρ	Р]					A	
2	Veterinary Offices/Clinics	Р	General Storage to include Boat and RVs	Ρ	Ρ		1				1		
2	Water Production Facilities	С	Group Child-Care Homes	Р	Ρ	P	1			G		1	
3	Single-Family Detached Dwellings	P	Home-Based Business, No-Impact (including Farm-Based	Р	Р	Р	1					7	¢.
3	Seasonal Dwellings	P	Business, No Impact)		-		4					//	
3	Personal Care Homes, Small	P	Home Occupation – Type 1		P	P	4					-	
4	Communication Towers	P	Home Occupation – Type 2	_	Р	P	4	1					
4	Wind Energy Systems	С	Horse Riding Stables/Riding Academies	Р	Р	P	4	1 mg	< l>				
5	Mining and Quarrying	С	Kennel	С			4	_ `	1				
			Non-Commercial Keeping of Livestock	Р	Ρ	PP	4						
			Raising of Chickens			Р	4		/	11			
			Retail Establishments, Agriculture-Supported		Ρ		4			X.		1	1
			Retail Establishments, Value-Added Agriculture	Р	Р		4			A		11	-
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Sugar Shacks for Processing Sap from Trees on Different Lot Sugar Shacks for Processing Sap from Trees on Lot

Two-Family Dwellings

Welding Shops, Small Engine Repair

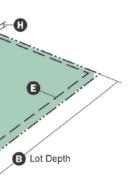
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ND BULK CATEGORIES					
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	100 ft	n/a	n/a		
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	50 ft	500 ft	100 ft		
t	30 ft	500 ft	300 ft		
	30 ft	500 ft	300 ft		
	50 ft	200 ft	n/a		
	40 ft	20 ft	n/a		
	30%	n/a	n/a		
	30%	n/a	n/a		



SE = Use by Special Exception

ZONING PRACTICE FEBRUARY 2020

APA

AMERICAN PLANNING ASSOCIATION

ISSUE NUMBER 2 PRACTICE PARKING REFORM



The Pseudoscience of Parking Requirements

Donald Shoup, FAICP

At the dawn of the automobile age, suppose Henry Ford and John D. Rockefeller had asked how city planners could increase the demand for cars and gasoline. Consider three options. First, divide the city into separate zones (housing here, jobs there, shopping somewhere else) to create travel between the zones. Second, limit density to spread everything apart and further increase travel. Third, require ample off-street parking everywhere so cars will be the easiest and cheapest way to travel.

American cities have unwisely adopted these three car-friendly policies. Separated land uses, low density, and ample free parking create drivable cities but prevent walkable neighborhoods. Although city planners did not intend to enrich the automobile and oil industries, their plans have shaped our cities to suit our cars.

Parking requirements are particularly ill-advised because they directly subsidize cars. We drive to one place to do one thing and then to another place to do another thing and then drive a long way back home, parking free everywhere. In The High Cost of Free Parking, published by the American Planning Association in 2005, I argued that parking requirements increase traffic congestion, pollute the air, encourage sprawl, raise housing costs, degrade urban design, prevent walkability, damage the economy, and penalize everyone who cannot afford a car. Since then, to my knowledge, no member of the planning profession has argued that parking requirements do not cause these harmful effects. Instead, a flood of recent research has shown that parking requirements are poisoning our cities with too much parking.

Despite all the harm off-street parking requirements cause, they are almost an established religion in zoning practice. One should not criticize anyone else's religion, but I'm a protestant when it comes to parking requirements. And I believe zoning needs a reformation.

THREE PARKING REFORMS

Reform is difficult because parking requirements do not exist without a reason. If on-street parking is free, removing offstreet parking requirements will overcrowd the on-street parking and everyone will complain. Therefore, to distill 800 pages of *The High Cost of Free Parking* into three bullet points, I recommended three parking reforms that can improve cities, the economy, and the environment:

- **Remove off-street parking requirements.** Developers and businesses can then decide how many parking spaces to provide for their customers.
- Charge the right prices for on-street parking. The right prices are the lowest prices that will leave one or two open spaces on each block, so there will be no parking shortages. Prices will balance the demand and supply for on-street space.
- Spend the parking revenue to improve public services on the metered streets.
 If everybody sees their meter money at work, the new public services can make demand-based prices for on-street parking politically popular.

Each of these three policies supports the other two. Spending the meter revenue to improve neighborhood public services can create political support to charge the right prices for curb parking. If cities charge the right prices to produce one or two open spaces on every block, no one can say there is a shortage of curb parking. If there is no shortage of curb parking, cities can then remove their off-street parking requirements. Finally, removing off-street parking requirements will increase the demand for curb parking, which will increase the revenue to pay for public services.

THE MOST EMOTIONAL TOPIC IN TRANSPORTATION

Everyone wants to park free, and most people consider parking a personal issue, not a policy problem. Rational people quickly become emotional about parking, and staunch conservatives turn into ardent communists. Thinking about parking seems to take place in the reptilian cortex, the most primitive part of the brain responsible for snap judgments about urgent fight-or-flight issues, such as how to avoid being eaten. The reptilian cortex is said to govern instinctive behavior like aggression, territoriality, and ritual display, which all play a role in parking.

Parking clouds people's minds, shifting analytic faculties to a lower level. Some strongly support market prices-except for parking. Some strongly oppose subsidiesexcept for parking. Some abhor planning regulations-except for parking. Some insist on rigorous data collection and statistical tests—except for parking. This parking exceptionalism has impoverished thinking about parking policies, and ample free parking is seen as a goal that planning should produce. If drivers paid the full cost of their parking, it would seem too expensive, so we expect someone else to pay for it. But a city where everyone happily pays for everyone else's free parking is a fool's paradise.

Few people are interested in parking itself, but parking strongly affects issues people do care strongly about, such as affordable housing, climate change, economic development, public transportation, traffic congestion, and urban design. For example, parking requirements reduce the supply and increase the price of housing. Parking subsidies lure people into cars from public transportation, bicycles, or their own two feet. Cruising for free curb parking congests roads, pollutes the air, and adds greenhouse gases. Do people really want a drive-in dystopia more than they want affordable housing, clean air, walkable neighborhoods, good urban design, and a sustainable planet?

Reforms in planning for parking may be the cheapest, quickest, and most politically feasible way to achieve many social, economic, and environmental goals.

THE EFFECTS OF PARKING REQUIREMENTS

Cities have parking requirements for every art gallery, bowling alley, dance hall, fitness club, hardware store, movie theater, night club, pet store, tavern, and zoo without knowing the demand for parking at any of them. Despite a lack of theory and data, planners set parking requirements for hundreds of land uses in hundreds of cities—the 10,000 commandments of planning for parking. Planners have adopted a veneer of professional language to justify the practice, but planning for parking is learned only on the job and it is more a political activity than a professional skill.

Consider what planners do not know when they set parking requirements:

- How much the required parking spaces cost
- How much drivers are willing to pay for parking
- How parking requirements increase the price of everything except parking
- How parking requirements affect architecture and urban design
- How parking requirements affect travel choices and traffic congestion
- How parking requirements affect air pollution, fuel consumption, and CO2 emissions

The High Cost of Parking Requirements

Cost is an especially important unknown. A recent study found that the parking spaces required for shopping centers in Los Angeles increase the cost of building a shopping center by 67 percent if the parking is in an aboveground structure and by 93 percent if the parking is underground (Shoup 2014). Retailers pass this high cost on to all shoppers, regardless of how they travel. People who cannot afford a car pay more for their groceries so richer people can park free when they drive to the store.

Without knowing how much the required parking spaces cost to build, planners cannot know how parking requirements increase the cost of housing. Small, spartan apartments cost less to build than large, luxury apartments, but their parking spaces cost the same. Because many cities require the same number of spaces for every apartment regardless of its size or quality, the required parking disproportionately increases the cost of low-income housing. One study found that minimum parking requirements raise housing costs by 13 percent for families without cars (Gabbe and Pierce 2017).

Drivers pay for their cars, fuel, tires, maintenance, repairs, insurance, and



😔 Figure 1. An office park on the border of Milpitas and San Jose, California.

registration fees, but they usually don't pay for parking. Who does pay for the parking? Everyone, including people who cannot afford a car. All of life's necessities cost more in order to provide free parking.

America is a free country, and many people seem to think that means parking should be free. Parking requirements enable everyone to park free at everyone else's expense, and no one knows that anyone is paying anything. Parking is free, however, only because everything else is more expensive. Parking requirements are well-intentioned, but good intentions do not guarantee good results or mitigate unintended harm.

The required parking takes up a lot of space. Parking lots typically have about 330 square feet per space. Because there are at least three off-street parking spaces per car in the United States, there are at least 990 square feet of off-street parking space per car. In comparison, there are about 800 square feet of housing space per person in the United States. The area of off-street parking per car is thus larger than the area of housing per human.

In astronomy, dark energy is a force that permeates space and causes the universe to expand. Similarly, in urban planning, parking requirements are a force that causes cities to expand. The higher the parking requirements, the stronger the dark energy that spreads cities out and rips them apart. Typically, the process of setting the parking requirements is closer to astrology than astronomy.

Parking Requirements in Practice

When I am invited speak in a city, I start with an aerial view of a site in the city with too much parking, such as this photo of an office park in San Jose, California (Figure 1). It looks like a giant parking lot with a few buildings.

I then show a page from the city's parking requirements, which are so precise and so specific for so many land uses that most people probably assume planners carefully study parking (Table 1). Instead, planners are winging it. Planners are not oracles who can divine the demand for parking. I have never met a city planner who could explain why any parking requirement should not be higher or lower. To set parking requirements, planners usually take instructions from elected officials, copy other cities' parking requirements, or rely on unreliable surveys. Parking requirements are closer to sorcery than to science.

Next, I show the size of the parking lots resulting from the city's parking

TABLE 1. SELECT PARKING REQUIREMENTS FOR"ENTERTAINMENT AND RECREATION" USES IN SAN JOSE, CALIFORNIA

Use	Vehicle Parking Required			
Arcade, amusement game	1 per 200 sq. ft. of floor area			
Batting cages	1 per station, plus 1 per employee			
Bowling establishment	7 per lane			
Driving range	1 per tee, plus 1 per employee			
Golf course	8 per golf hole, plus 1 per employee			
Health club, gymnasium	1 per 80 sq. ft. recreational space			
Miniature golf	1.25 per tee, plus 1 per employee			
Performing arts rehearsal space	1 per 250 sq. ft. of floor area			
Poolroom/billiards establishment	1 per 200 sq. ft. of floor area			
Private club or lodge	1 per 4 fixed seats on the premises, or 1 per 6 linear feet of seating, plus 1 per 200 square feet of area without seating but designed for meeting or assembly by guests, plus 1 per 500 sq. ft. of outdoor area developed for recreational purposes			
Recreation, commercial (indoor)	1 per 80 sq. ft. of recreational area			
Recreation, commercial (outdoor)	20 per acre of site			
Skating rink	1 per 50 sq. ft. of floor area			
Swim and tennis club	1 per 500 sq. ft. of recreation area			

requirements. For many land uses, the parking lots are bigger than the buildings they serve (Figure 2). There is more space for parking than for people. For example, San Jose, California, requires a restaurant to provide a parking lot that is more than eight times the size of the restaurant itself. The requirements provide parking everywhere anyone wants to go, but they also create places where few people want to be.

Most people think parking behaves like a liquid. If the parking supply is squeezed in one place, cars will park somewhere else. But parking behaves more like a gas. The number of cars expands to fill the available space, and more parking leads to more cars. Nevertheless, planners usually assume that cars and people come in fixed proportions, and they often require parking in proportion to people: per beautician, dentist, mechanic, nun, student, teacher, or tennis player. If parking were priced to cover its cost, people would own fewer cars and drive less.

Parking requirements are not only ridiculous but also dangerous. They make cities friendly to cars but not to people—drivable but not walkable. As Jane Jacobs wrote, "The more downtown is broken up and interspersed with parking lots and garages, the duller and deader it becomes, and there is nothing more repellent than a dead downtown." We want more out of our streets than traffic and free parking. We also want safety, health, walkability, prosperity, and pleasure.

The Unequal Burden of Parking Requirements

Cities require parking for every building without considering how the required spaces place a heavy burden on poor people. A single parking space, however, can cost more than the net worth of many U.S. households. One study found that in 2015 the average construction cost (excluding land cost) for parking structures was about \$24,000 per space for aboveground parking and \$34,000 per space for underground parking.

By comparison, the U.S. Census of Wealth and Asset Ownership in 2015 found that the median net worth (the value of assets minus debts) was \$110,500 for white households, \$19,990 for Hispanic households and \$12,780 for black households. One space in a parking structure, therefore, costs more than the entire net worth of more than half of all Hispanic and black households in the country.

Free curb parking and off-street parking requirements have spread the city out so that most people need a car to get a job, go to school, and shop. In a misguided attempt to provide free parking for everyone, cities encourage poor people to buy cars they can ill afford, often financing them by subprime loans at high interest rates. Free parking has the veneer of equality, but it increases inequality. It is enormously wasteful and grossly unfair.

Assumptions and Parking Requirements

Parking requirements resemble what engineers call a "kludge"—an awkward but temporarily effective solution to a problem, with many moving parts that are clumsy, inefficient, hard to understand, and expensive to maintain. Off-street parking requirements are a kludge designed to prevent a shortage of free on-street parking. Parking requirements are superficially plausible but fundamentally wrong.

Parking requirements are like barnacles on a ship, accumulating one at a time and slowing the ship's progress. They have severed the link between the cost of providing parking and the price that drivers pay for it. They increase the demand for cars, and when citizens object to the resulting traffic congestion, cities respond by restricting development to reduce traffic. That is, cities require parking and then limit the density of people to limit the density of cars. Free parking has become the arbiter of urban form, and cars have replaced people as zoning's real density concern.

Parking requirements create many disputes about how many parking spaces a building "needs," with each side making solemn claims backed by dubious evidence. Consider the opposite approaches in the Los Angeles and San Francisco central business districts. For a concert hall downtown, Los Angeles requires, as a minimum, 50 times more parking spaces than San Francisco allows as its maximum. This difference helps to explain why downtown San Francisco is much more exciting than downtown Los Angeles.

If physicians in one city prescribed bloodletting and physicians in another city prescribed blood transfusion to treat the same disease, everybody would demand to know what is going on. Nobody notices when Los Angles requires parking and San Francisco restricts it. Ultimately, minimum parking requirements increase traffic



Jonald Shoup, FAICP

S Figure 2. Required ratios of building-to-parking area for select uses in San Jose, California.

because all the cars drawn to the required parking spaces clog the roads. Los Angeles has more parking spaces per square mile and worse traffic congestion than any other city in the United States. Minimum parking requirements began as a solution but have become the problem, a disease masquerading as a cure.

If planners assume that every new resident will come with a car, they require developers to provide enough off-street parking to house all the cars. Ample free parking then ensures that most residents do want a car. Parking requirements thus result from a self-fulfilling prophecy. Parking requirements increase the number of cars, and planners then use the large number of cars to justify the need for higher parking requirements.

Planners often use "motivated reasoning" to justify the parking requirements required by elected officials who want enough parking to ensure that citizens won't yell about a shortage of free parking. Planners must then fashion arguments for conclusions already reached. Assumptions are the starting point of most parking requirements, and the person who makes the assumptions determines the outcome. Instead of reasoning about parking

requirements, planners rationalize them and feign expertise they do not have.

When it comes to parking requirements, planners have used Pandora's box as their toolkit. These requirements result from complex political and economic forces, and planners are not in full control. But they do enable the pseudoscience, and the public bears the cost.

Every Sin Is Forgiven if It Is Done With Our Permission

When a city requires off-street parking, city officials have something to offer developers—a planning variance that reduces the parking requirement. The city can then allow a business to provide fewer than the required number of parking spaces because of special circumstances. Some planners may believe that minimum parking requirements are needed as a bargaining chip because they enable cities to reduce the parking requirements in exchange for community benefits, such as affordable housing. For example, California requires cities to reduce the parking requirements for residential developments that include a specific share of affordable housing units. Reducing parking requirements as an inducement to provide affordable housing shows how unnecessary

the parking requirements are in the first place. Cities would never reduce the code requirements for safe electrical wiring or fire escapes in exchange for affordable housing units, but they can easily bargain away parking because it is obviously not necessary.

Just as the medieval Catholic Church sold indulgences for the remission of sins, cities can sell planning variances for the remission of parking requirements. In Dostoyevsky's The Brothers Karamazov, the Grand Inquisitor of Seville explained why the Church was popular even though it threatened Hell as the punishment for minor sins: "Every sin will be forgiven if it is done with our permission." Removing minimum parking requirements will remove the temptation to sell variances that allow sinfully few parking spaces.

How can cities remove their minimum parking requirements and still have the bargaining power the requirements provide? They can establish maximum parking limits and allow developers to provide more spaces if they pay a fee for every space they provide above the limit. I do not recommend establishing parking maximums to use as a bargaining tool with developers. Nevertheless, if cities want to use parking as a bargaining tool, it is much better to bargain from the starting point of maximum limits than of minimum requirements.

THE UPSIDE OF MINIMUM PARKING REQUIREMENTS

The upside of parking requirements is that removing them can do so much good. Figure 1 showed the asphalt desert created by excessive parking in Silicon Valley. What would happen if San Jose removed off-street parking requirements, charged demandbased prices for on-street parking, and used the resulting revenue to improve neighborhood public services? Property owners might decide their land is more valuable for housing than for parking. If a city wants more housing and less traffic, removing off-street parking requirements will help.

Everyone in Silicon Valley complains about expensive housing, long commutes, congested traffic, and polluted air. Building housing on the periphery of parking lots would help to solve all these problems. Figure 3 suggests what could happen if San Jose removed parking requirements and allowed housing on the periphery of



Figure 3. The same office park from Figure 1, digitally altered to illustrate how removing parking requirements could result in liner apartment buildings on previously developed sites.

parking lots. A parking lot can easily be redeveloped because it has a single owner, has no demolition costs, does not require new infrastructure, and is near both jobs and shopping. If apartment buildings fronted the sidewalks, anyone walking, biking, or driving by would see a real city. The smartest way to travel is to be near your destination already, and this job-adjacent housing would allow commuters to walk to work—a rare out-of-car experience.

The housing can be built without new parking because the existing spaces can be shared between office buildings and apartments. To avoid a parking shortage, the cost of parking will have to be separated from the rent for apartments and offices, so only drivers pay for parking. Residents who work in a nearby office building may find they can live with only one or even no car. They will have the option to rent an apartment without paying for two parking spaces, an option that parking requirements now forbid. The new housing cannot cause gentrification or displacement because no one lives on the parking lots now. Converting parking spaces into housing sites will also reduce traffic congestion because more people will walk, bike, carpool, or ride transit to their destinations. Oversized parking lots offer the possibility of something much better, but parking

requirements prevent anything else. The asphalt landscape in too much of America is not walkable, beautiful, or sustainable, but it can be reformed and transformed.

Removing parking requirements can produce a cascade of benefits: shorter commutes, less traffic, a healthier economy, a cleaner environment, and more affordable housing. If we reform our misguided planning, vast parking lots can evolve into real communities. Economic objectives often conflict with environmental objectives, but parking reforms can serve both.

The money we now spend on cars and fuel can be spent on other things. Cars and fuel are often imported, but we cannot import apartment buildings. Spending less for cars, fuel, and parking and spending more for housing will increase the demand for labor in a host of professions, such as architects, carpenters, electricians, plumbers, and roofers. Importing fewer cars and hiring more people to build infill development will boost the whole economy.

Some critics argue that removing an off-street parking requirement amounts to "social engineering" and a "war on cars." Instead, off-street parking requirements are a war for cars. All the required parking spreads buildings apart so more people need cars to get around. Removing a requirement that restaurants provide 10 parking spaces per 1,000 square feet of floor area is no more a war on cars than removing a requirement that everyone must eat in restaurants 10 times a month would be a war on restaurants.

When it comes to off-street parking, I'm pro-choice. Cities should not require developers to provide unwanted parking spaces. Parking requirements were a bad idea, poorly executed, and they prevent many good results. Figure 3 shows that an upside of the mess we have made is an accidental land reserve available for job-adjacent housing. If cities remove their unwise parking requirements, we can reclaim land on a scale that will rival the Netherlands.

Cities have three good reasons to remove minimum parking requirements: We can't afford them, we don't need them, and they do immense harm. Wishing that parking requirements did not exist, however, is not a strategy for removing them. Parking requirements respond to a real problem, but they are the wrong solution. And cities cannot remove their parking requirements without also better managing on-street parking. If cities manage on-street parking properly, they won't need to require off-street parking. Information wants to be free, but parking wants to be paid for.

PROOF IT CAN BE DONE

When The High Cost of Free Parking was published, half the city planning profession thought I was crazy and the other half thought I was daydreaming. Since then, several cities—including Buffalo, New York; Hartford, Connecticut; Minneapolis, and San Francisco—have removed all parking requirements, and many others have removed their downtown requirements. Mexico City has converted its minimum parking requirements into maximum parking limits while leaving the numbers almost unchanged. What once seemed politically impossible may slowly become the new normal.

For example, in July 2019, Houston nearly doubled the size of its downtown offstreet parking exemption area, redefining it as a "market-based parking area" (§26-471(b)(6) & §26-472). In this area, developers decide how much parking to provide, and at least one shopping center developer has already decided to provide a public plaza instead of more parking (DiMiceli 2019).

CONCLUSION

Assembling support for parking reform is like opening a combination lock: each small turn of the dial seems to achieve nothing, but when everything is in place the lock opens. Three reforms can open the parking combination lock: (1) remove off-street parking requirements, (2) charge market prices for on-street parking, and (3) spend the revenue for neighborhood public services.

Repealing off-street parking requirements and replacing them with market prices for on-street parking may at first glance seem a Herculean task, almost like Prohibition or the Reformation, too big an upheaval for society to accept. Nevertheless, this strategy should attract voters across a wide political spectrum. Conservatives will see that it reduces government regulations. Liberals will see that it increases public spending. Environmentalists will see that it reduces energy consumption, air pollution, and carbon emissions. Urban designers will see that it enables people to live at higher density without being overrun by cars. Developers will see that it reduces building costs. Residents will see that it improves their neighborhood public services. Drivers of all political stripes will see that it guarantees convenient curb parking. Elected officials will see that it depoliticizes parking, reduces traffic congestion, allows infill development, and provides public services without raising taxes. Finally, planners can devote less time to parking and more time to improving cities.

Repealing off-street parking requirements, charging the right prices for on-street parking, and using revenue to provide public services will improve cities, the economy, and the planet, one parking space at a time. Cities will look and work much better when prices, not planners and politicians, govern decisions about the number of parking spaces. Like the automobile itself, parking is a good servant but a bad master.

Note: This piece is adapted from the Introduction to *Parking and the City*, published by Routledge in 2018.

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