# NAS-JRB Willow Grove Presentation of Preferred Reuse Alternative — Option D



Horsham Township, PA
November 16, 2011











#### **MEETING AGENDA**

- Call to order and Pledge of Allegiance
- Final Preferred Redevelopment Plan Presentation
- Opportunity for questions and comments
- Approval of the Meeting Minutes: October 19, 2011
- Executive Director's Report
- Solicitor's Report
- Bills and Communications: Approval of list of checks
- Additional business, if any
- Determine the time for the next HLRA Board Meeting:
  - Wednesday, December 21, 2011

#### **Preferred Alternative Presentation**

#### I. FINAL PREFERRED REUSE ALTERNATIVE

- A. Summary of October 19th Directives
- B. Preferred Alternative Land Use Overview
- C. NOI Submission Summary
- D. Traffic Impacts and Mitigation Recommendations
- E. Infrastructure Estimates
- F. Economic and Fiscal Impacts

#### II. QUESTIONS AND COMMENTS

CAPT. R. A. WIEGAND, USNR, COMMANDING







#### **TOWN CENTER**

- Include park space in Town Center
- Locate Town Center between Horsham and Easton Road and above Norristown Road crossing
- Incorporate entertainment uses
- Create a water feature
- Include high-end apartment units and condominiums above retail shops
- Provide for "bare minimum" of townhomes, condominiums, and apartments to support town center
- Do not exceed four-story height limit
- Create a pedestrian friendly and interconnected Town
   Center

#### HOTEL

- Include high-end hotel/conference center
- Locate hotel/conference center proximate Easton Road
- Hotel height = a maximum of 10 stories
- Locate near Town Center and office park

#### RESIDENTIAL

- Include higher value single family homes in northern area
   with views of the golf course on ¼ to 1/3 acre lots
- Include a range of housing types and price points
- Place townhomes/condos/small single family lots close to Town Center

#### **OPEN SPACE**

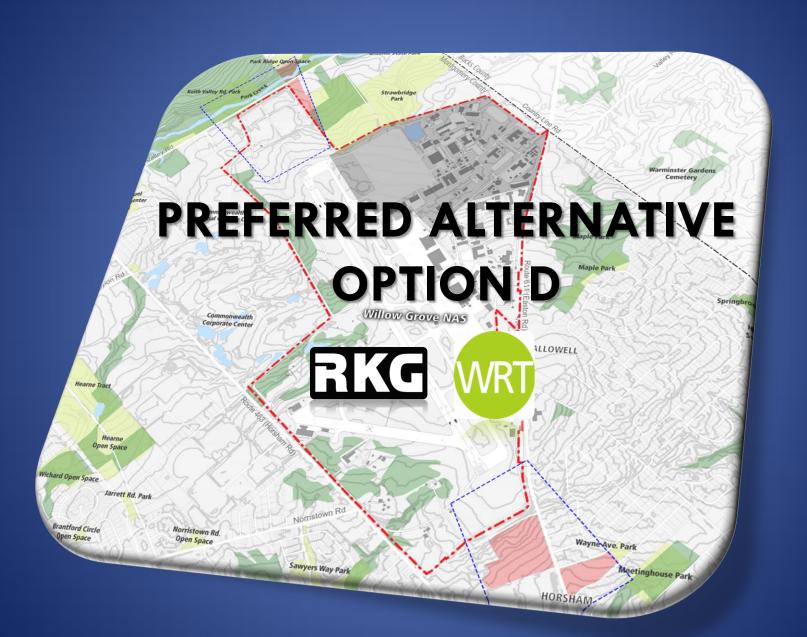
- Increase open space and differentiate between public and private open space on final map
- Allow for more active parkland (sports fields)
- Locate sports fields near school site
- Notate existing and proposed trail connections on final preferred plan
- Include site for DVHAA museum
- Include water features in Town Center and near Keith Valley Road

#### **ROAD NETWORK**

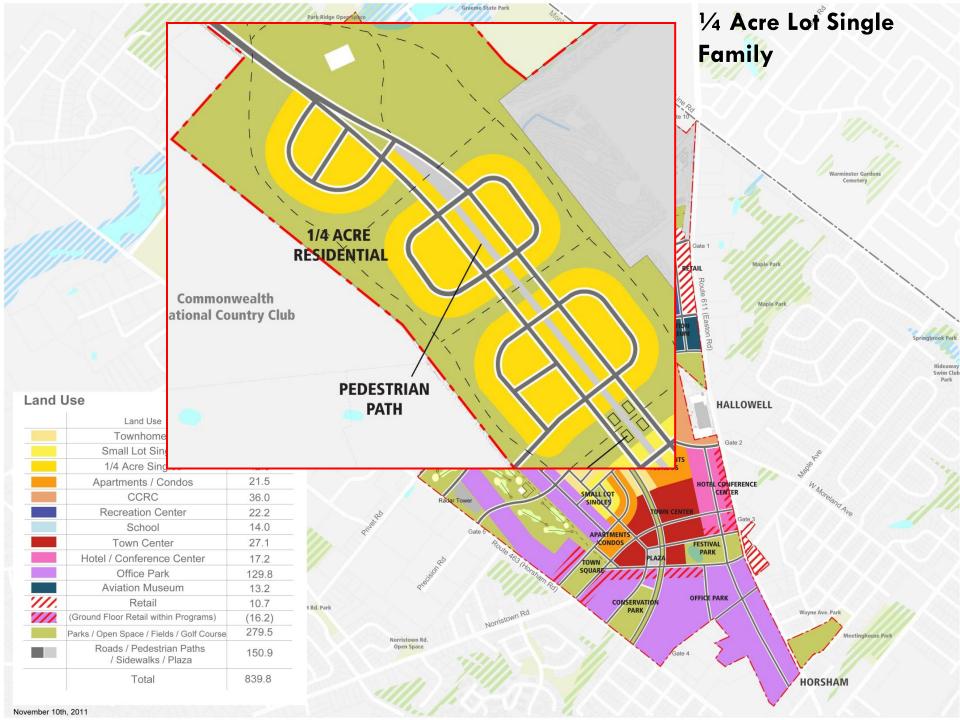
- Include a "Grand Boulevard" in the final preferred plan
- Connect Norristown Rd. to Maple Ave, Precision Rd. to Moreland Ave., and Privet Road to the Main Gate
- Describe how traffic improvements will be made
- Address Keith Valley Rd. flooding improvements
- Address golf cart crossings on Tournament Dr.

#### **GENERAL**

- Make final NOI recommendations
- Incorporate green elements into final design
- Include information on environmental remediation process, timeline and cost

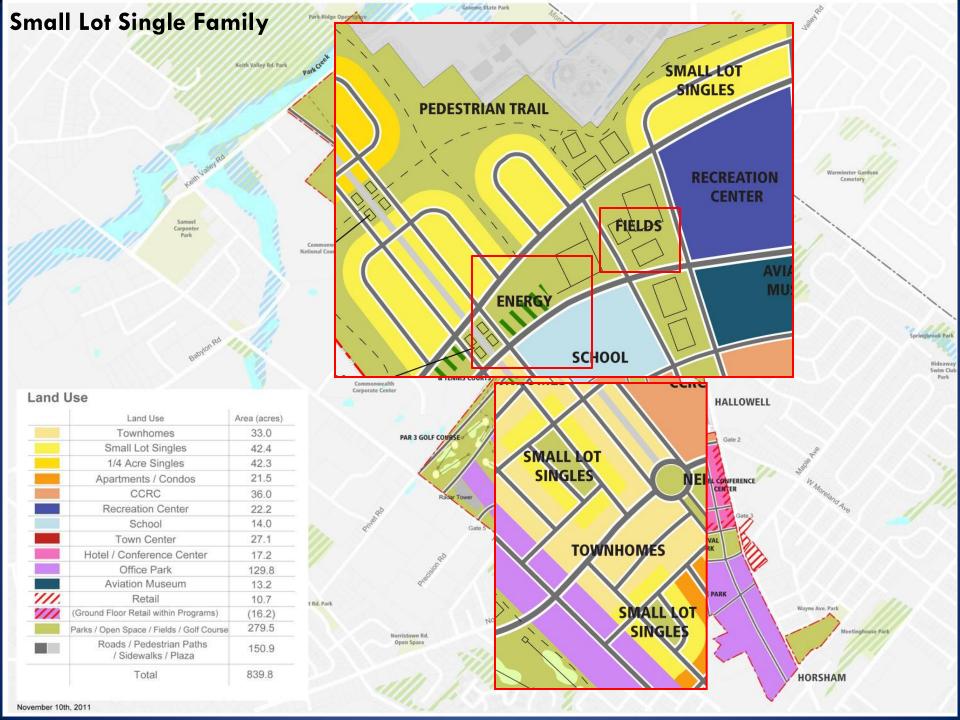






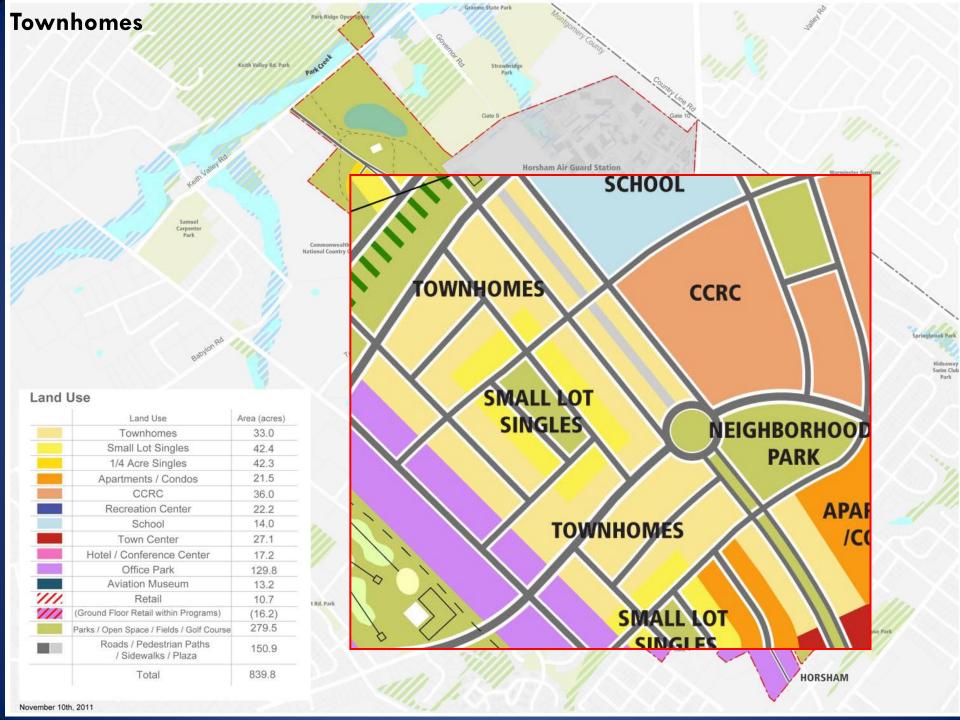
## Single Family Homes on 1/4 Acre Lots





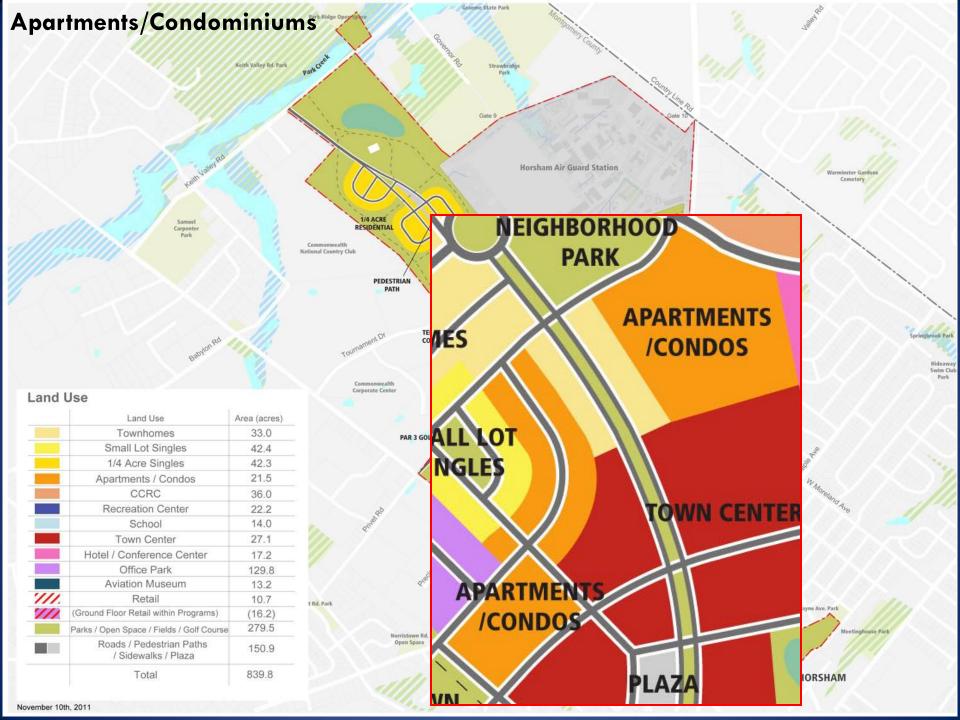
## **Small Lot Single Family Homes**





## **Townhomes**



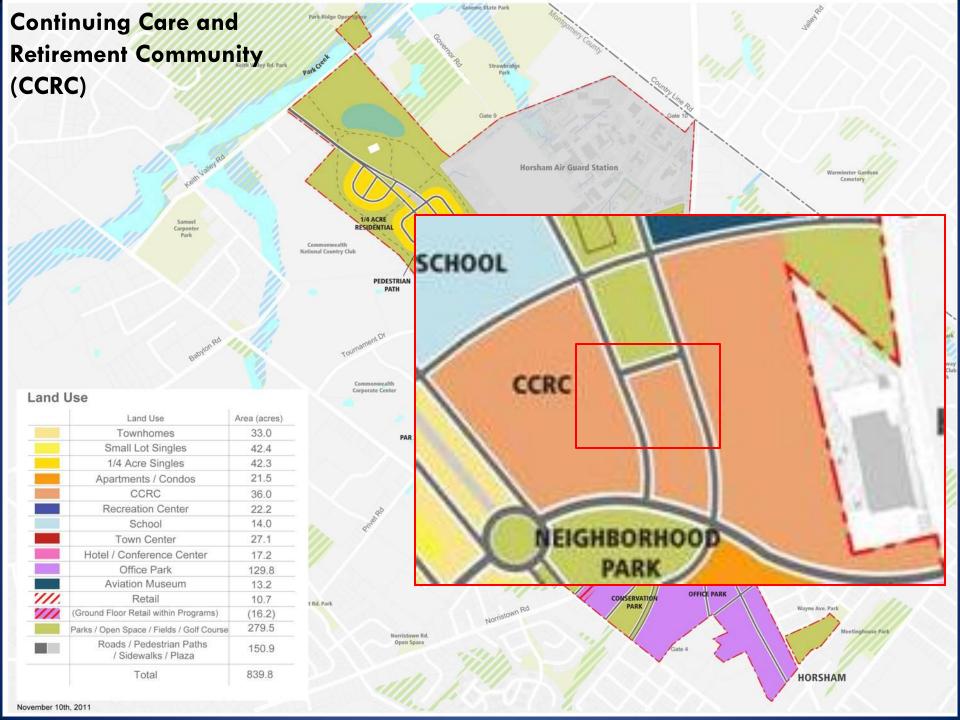


# **Apartments/Condominiums**





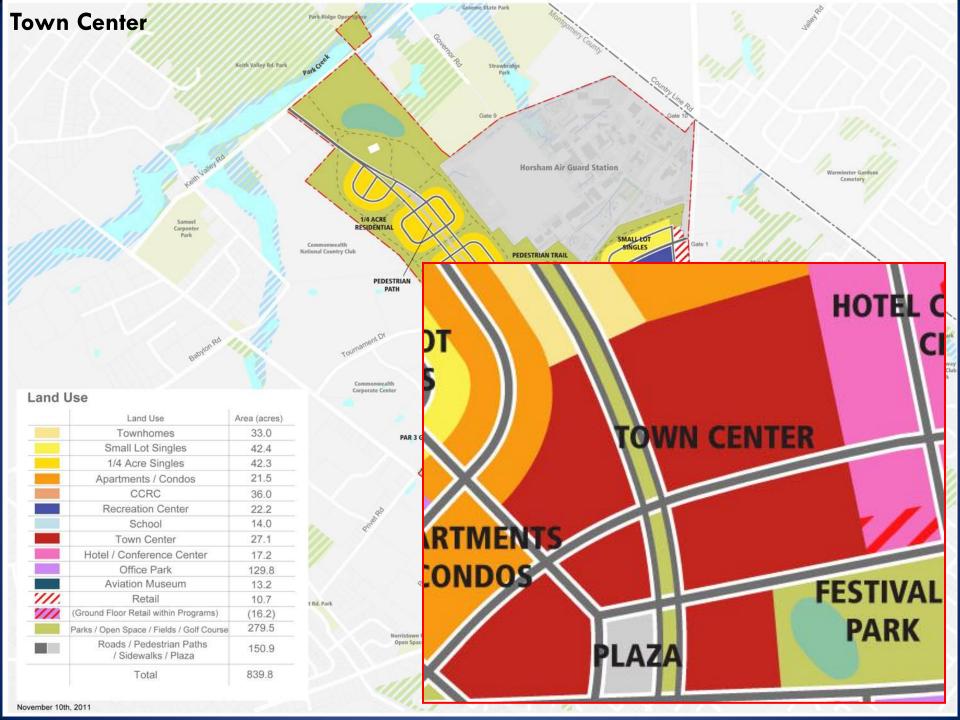




## **Continuing Care Retirement Center**





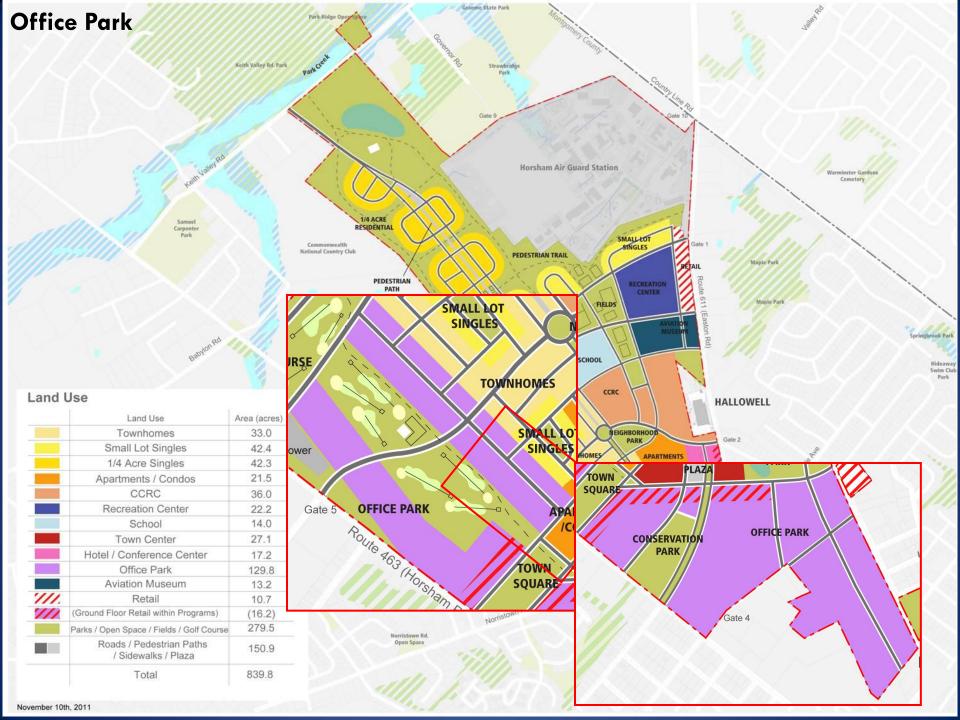


#### **Town Center**



## Town Center – Gathering Spaces

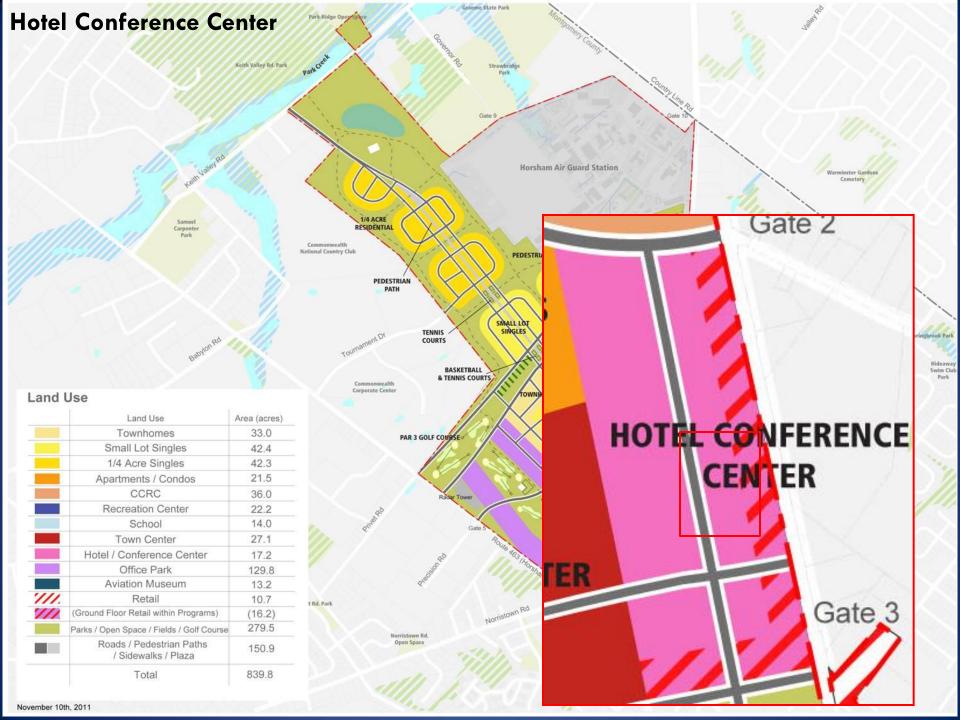




## Office Park



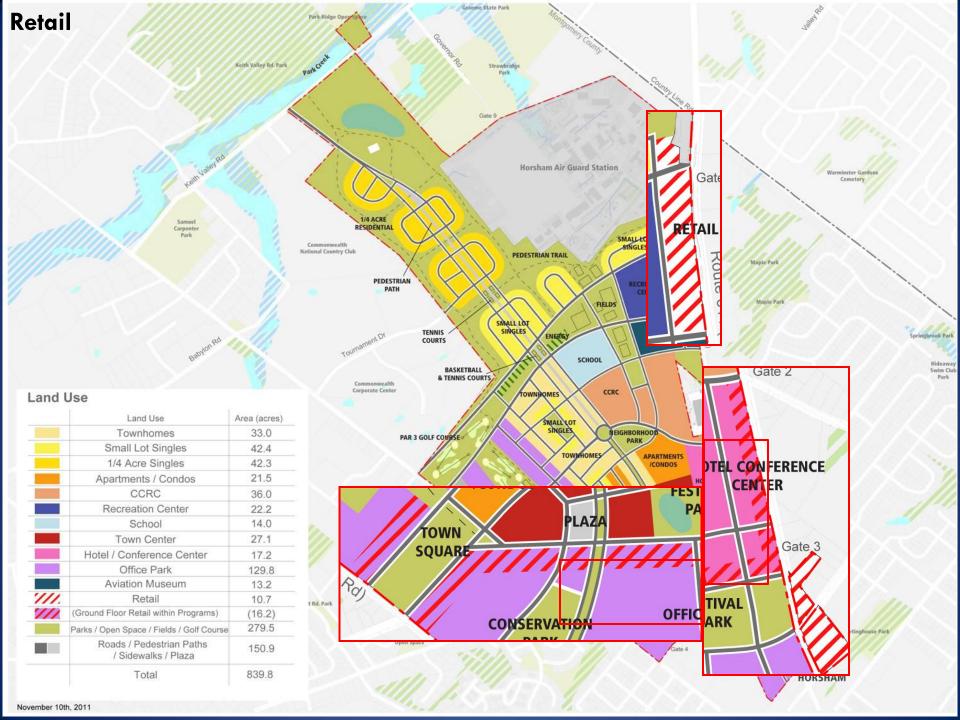




## **Hotel/Conference Center**



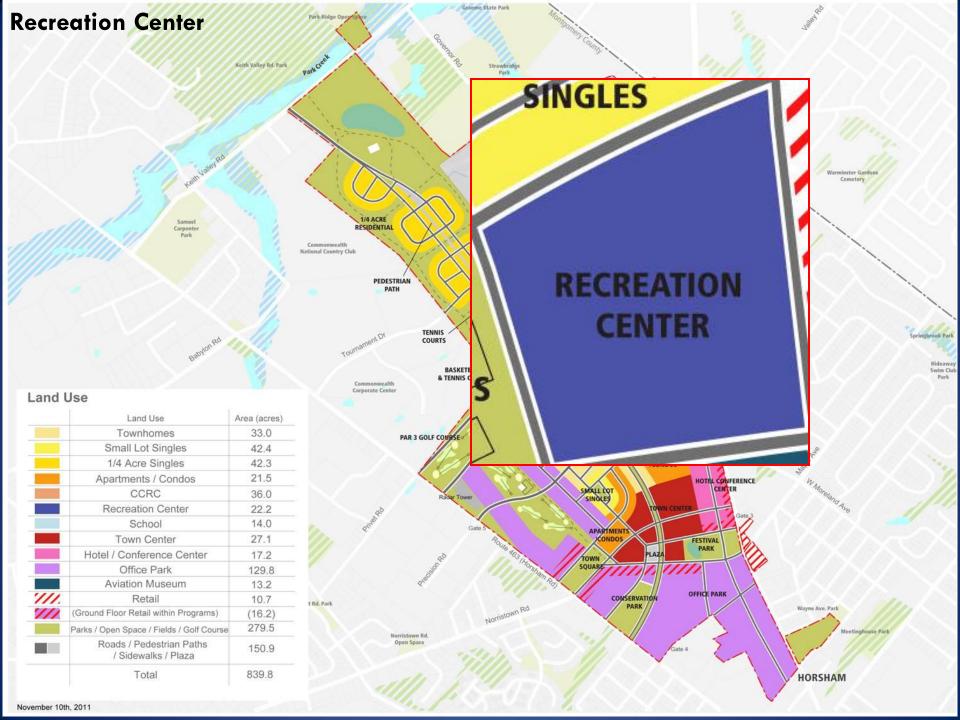




## **Retail Frontage**

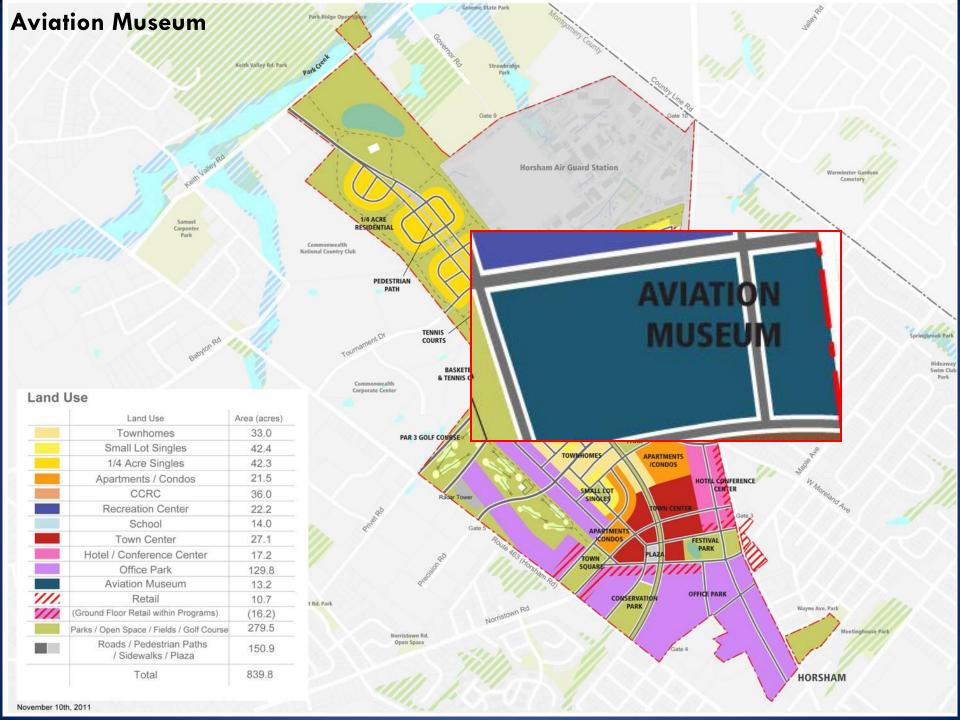






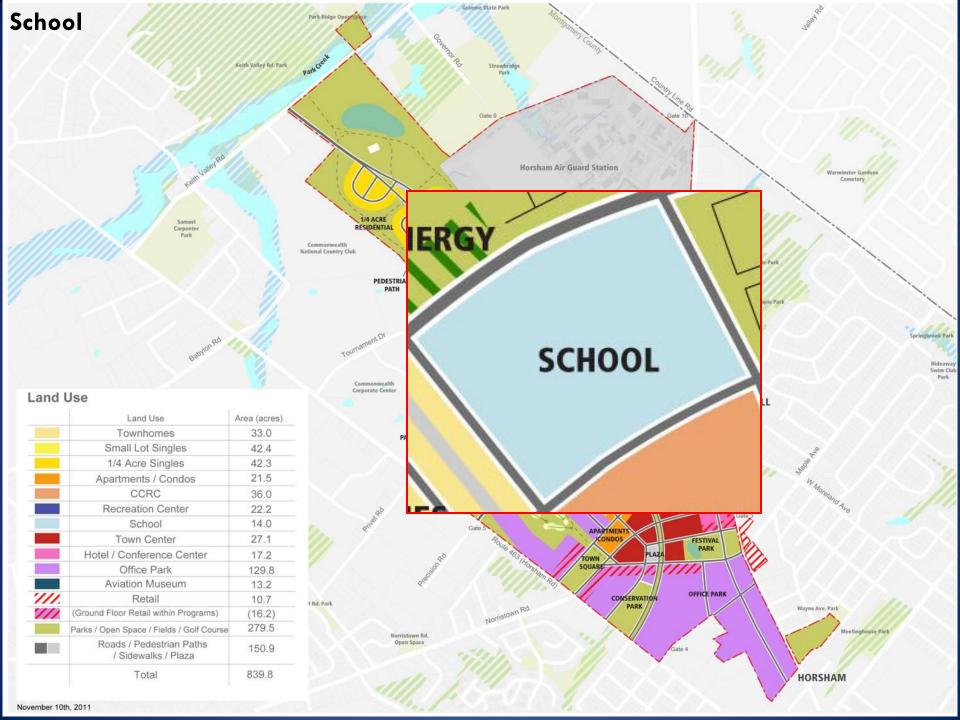
## **Regional Recreation Center**





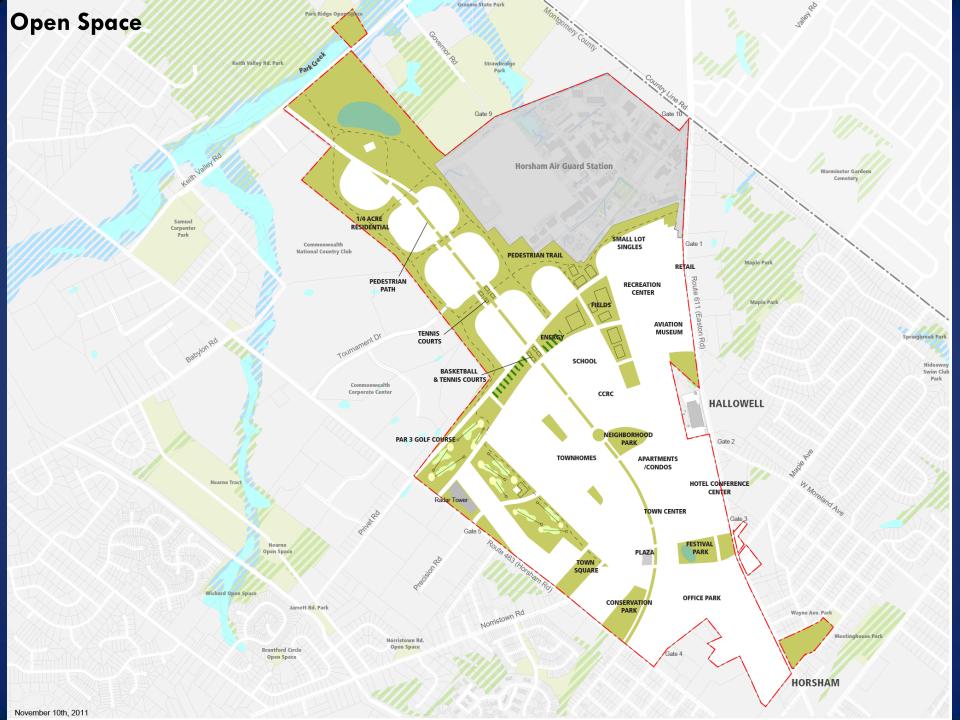
#### **Aviation Museum**



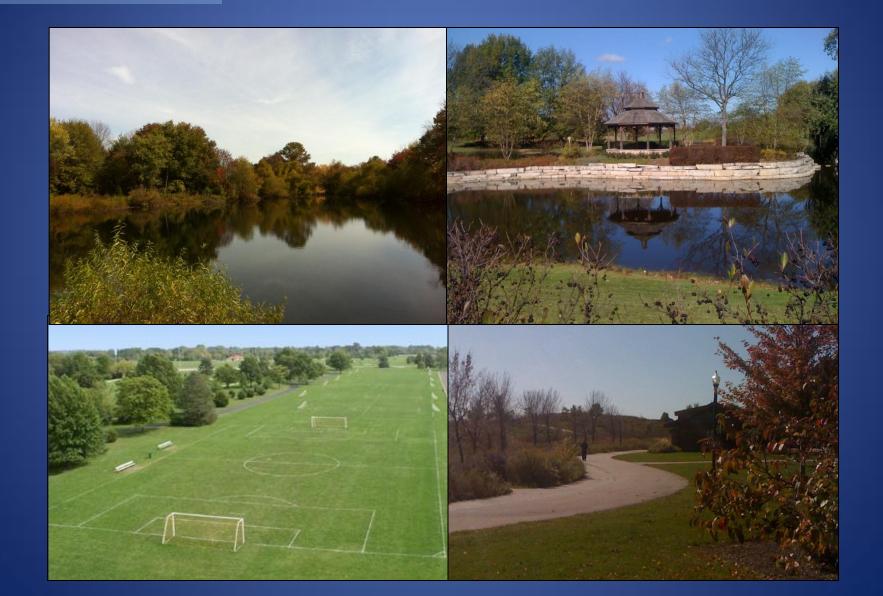


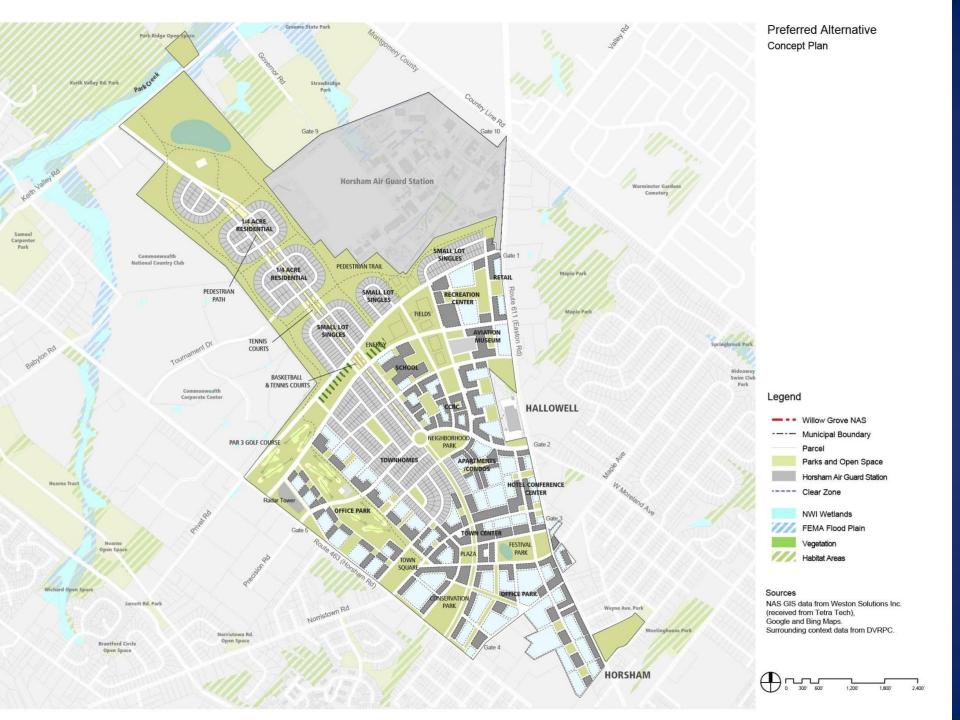
# Elementary/Middle School





# Open Space

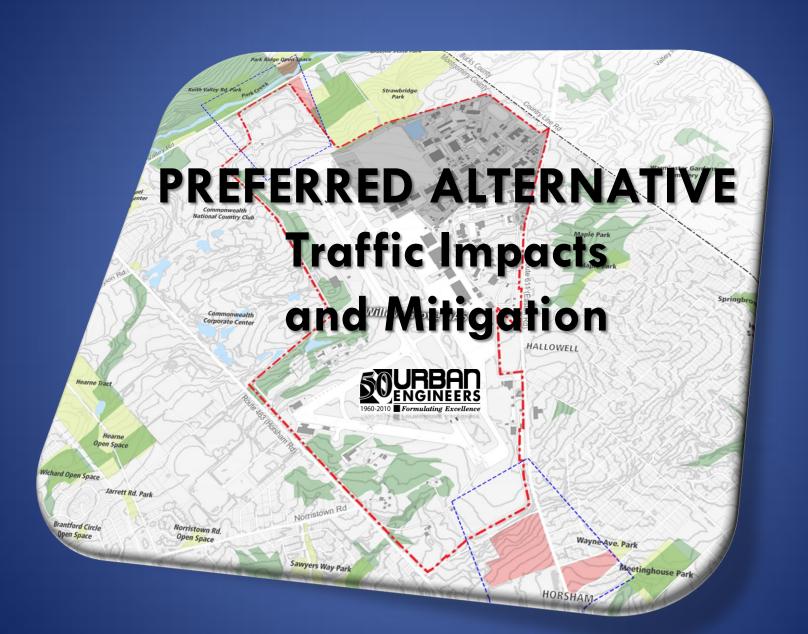






#### NOI SUMMARY

- All NOI's approved by the Board in July are accommodated in the plan
- Currently in discussions with Bucks County Housing and DVHAA on their NOI requests



### TRIP GENERATION

- Estimates "new" trips for proposed development
- Based on studies of existing sites nationwide
- Multiple variables based on "use"
  - Square footage
  - Number of units
  - Specific criteria (employees, rooms)
- Focused on AM/PM Peak Hours
- Reductions for "pass-by" trips and multiple destination trips

### PRIMARY GENERATORS

### Top Generators by Land Use

- 1. Office Park
- 2. Residential Development
- 3. Elementary School
- 4. Retail and Shopping

### Preferred Land Use Plan

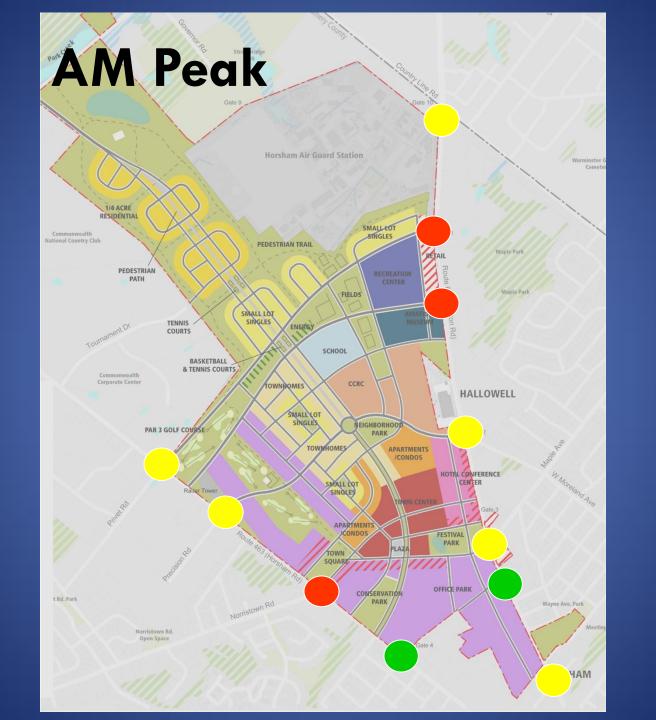
- Overall Traffic Impact Summary
  - Generates new trips during the AM and PM peak periods
  - Distributed across the entire network based on location within site
  - Signalized intersections generally
     experience traffic increases between 15 20% from 2026 No Build Projections

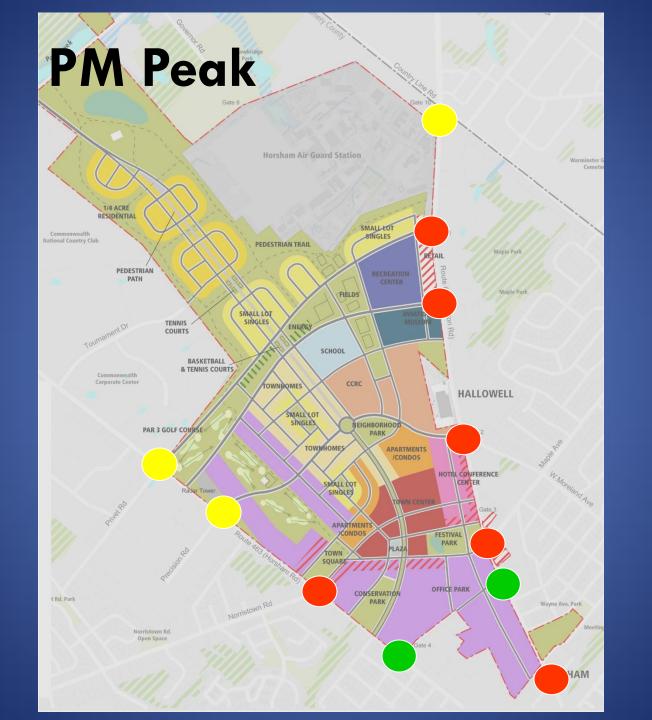
### INTERSECTIONS OPERATIONS

### Two Stage Analysis

- Compared to No Build 2026 volumes with existing geometry
- Prepared improvements to the geometry (no volume changes)





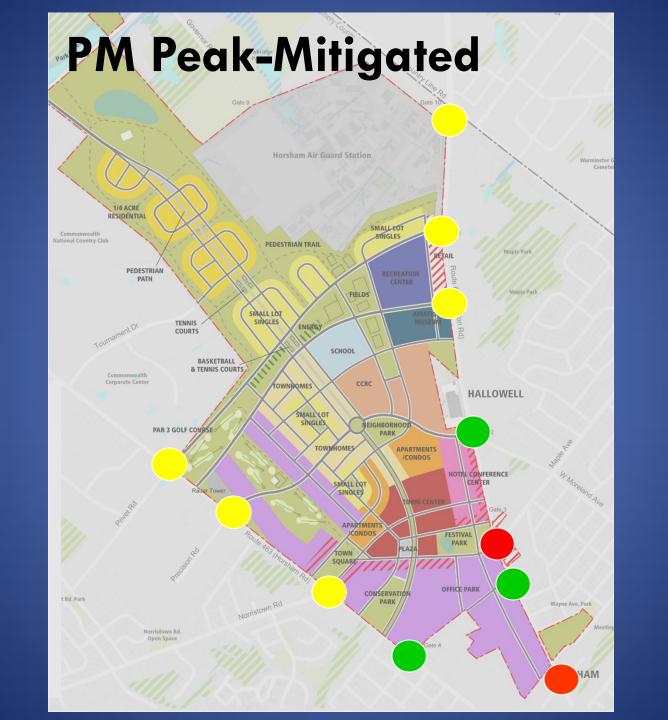


### Intersection Improvements

#### Purpose

- Improvements that can help mitigate effects of new development
- Localized improvements that are reasonable and manageable for development
- Focused on primary signalized intersections

#### AM Peak-Mitigated **Horsham Air Guard Station** 1/4 ACRE RESIDENTIAL Commonwealth National Country Club PEDESTRIAN TRAIL **PEDESTRIAN** PATH FIELDS SMALL LOT TENNIS ENERGY COURTS SCHOOL BASKETBALL & TENNIS COURTS TOWNHOMES HALLOWELL SMALL LOT NEIGHBORHOOL PAR 3 GOLF COURSE PARK **APARTMENTS** HOTEL CONFERENCE CENTER SMALL LOT APARTMENTS FESTIVAL TOWN OFFICE PARK CONSERVATION t Rd. Park Wayne Ave. Park



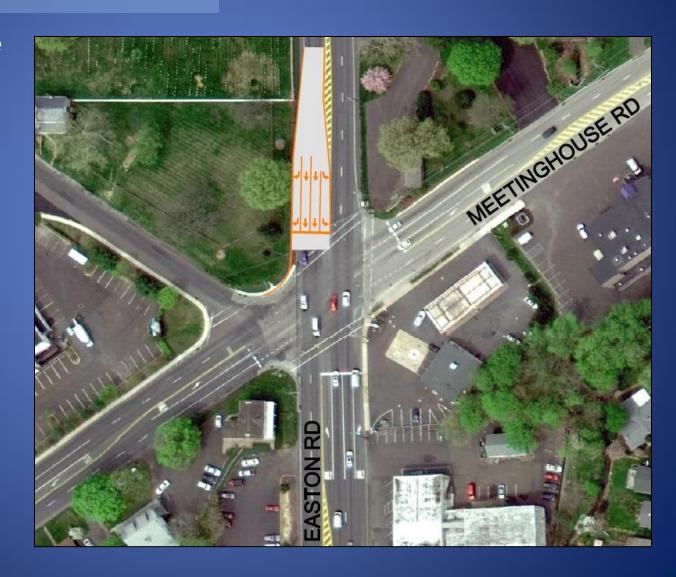
### Norristown Crossing Improvements

- NorristownRoad
  - Eastbound add designated RT Lane
  - LOS improved from F in AM and E in PM to C in both peaks



# Easton/Meetinghouse Improvements

- Meetinghouse Road
  - SouthboundadddesignatedRT Lane
  - LOS
     improved
     from F to E
     during both
     peaks



# Easton/Maple Improvements

- EastonRoad/MapleAvenue
  - SouthboundaddchannelizedRT Lane
  - LOS improved from E to D in the PM



## Easton/Main Gate Improvements

- Easton Road/Gate 1
  - Southboundaddchannelized RTLane
  - LOS improved from D to C in the AM



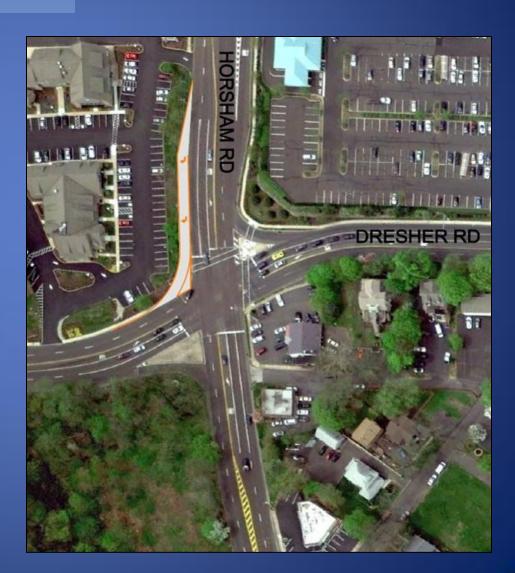
### Easton/Moreland Improvements

- Easton Road/ Moreland Ave
  - Southbound
     add
     channelized
     RT Lane;
     Northbound
     add LT Lane
  - LOSimprovedfrom E to D inPM



### Horsham/Dresher Improvements

- Horsham Road/Dresher Ave
  - Southbound add channelized RT Lane
  - LOS improved from F
     to E in the PM

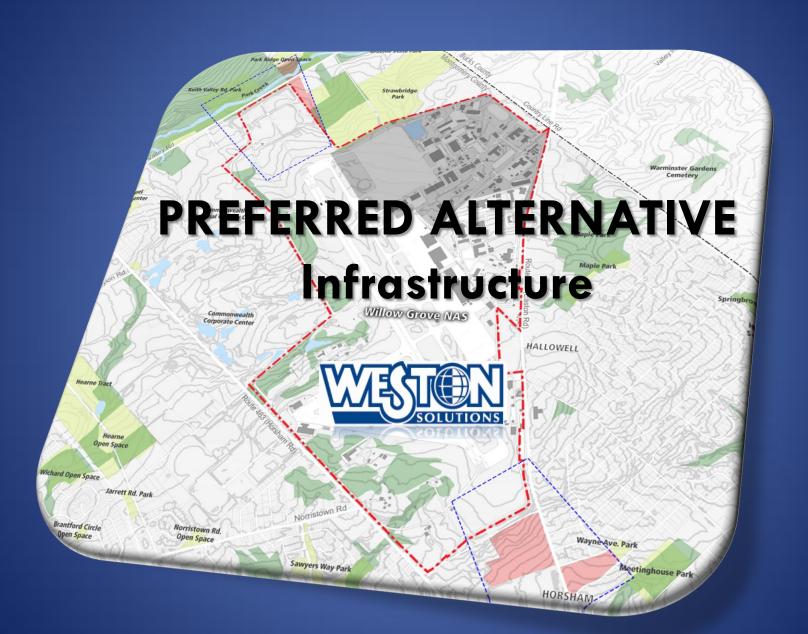


### SYSTEMWIDE IMPROVEMENTS

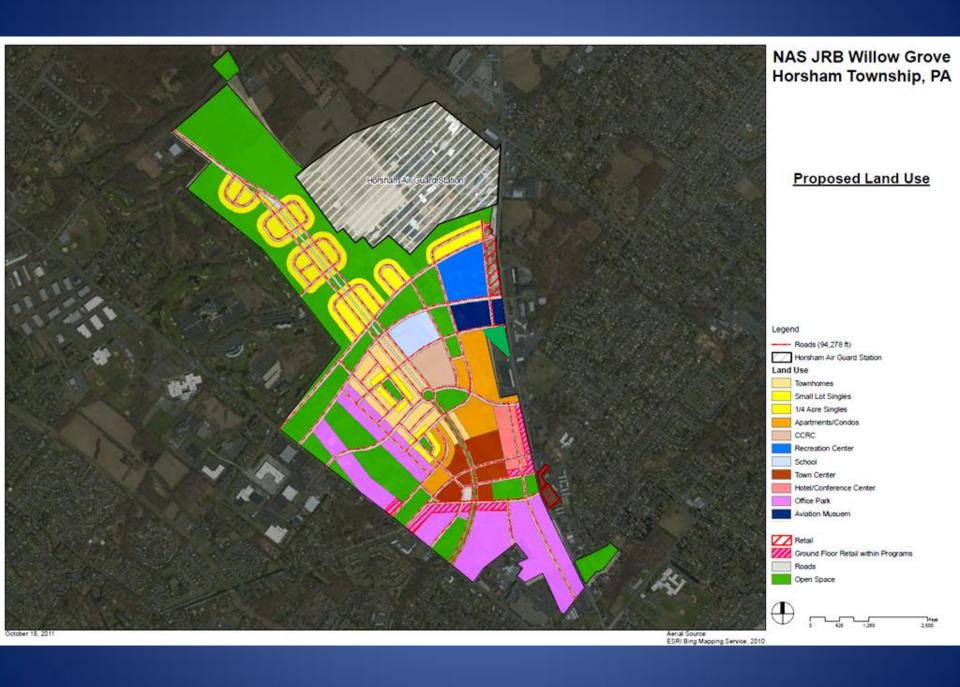
- Extend beyond the immediate vicinity of the base
- Require the involvement of PennDOT and PA Turnpike
- May be difficult to link these improvements to developer projects
- Will be project of regional economic development importance

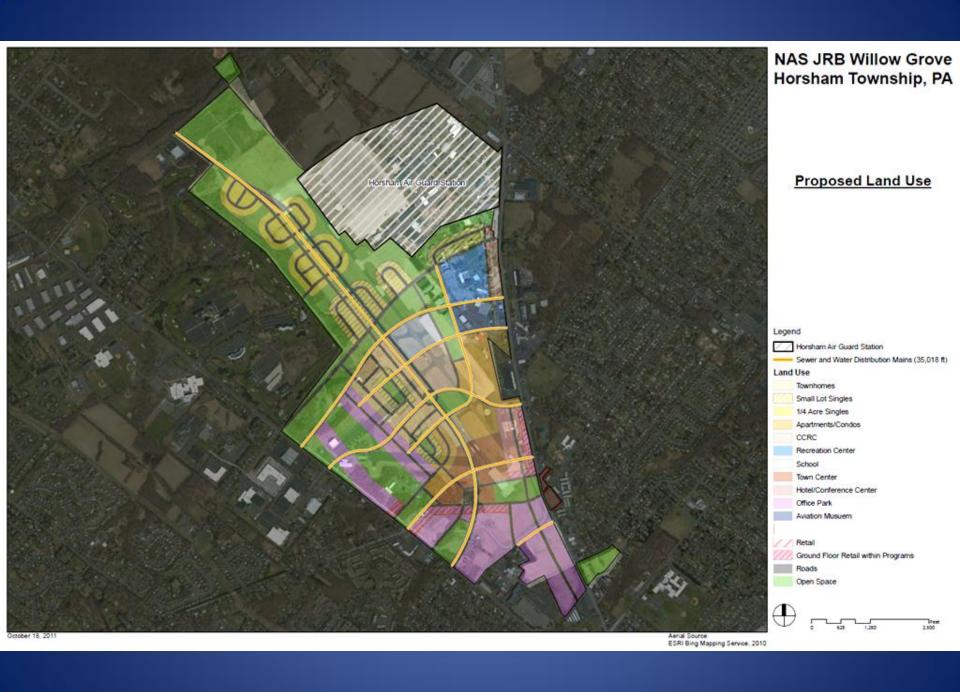
#### SYSTEMWIDE IMPROVEMENTS

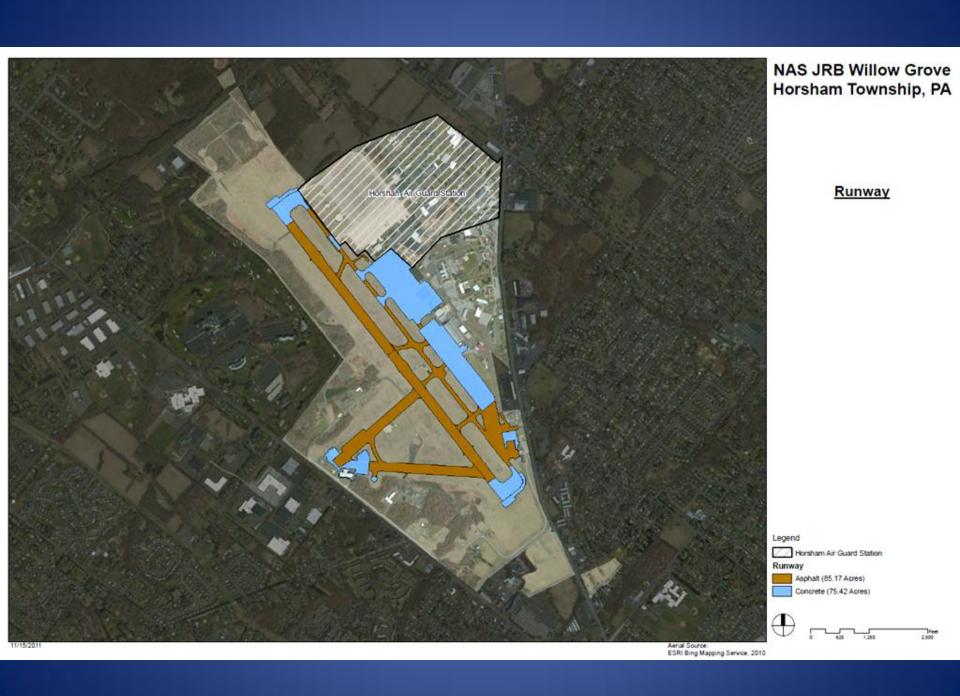
- Longer range improvements possibly including:
  - Implementing adaptive signal technology
  - Widening County Line Road
  - Widening Easton Road north of Blair Mill
     Road
  - Improved access control to businesses











	Preferred Alternative		
	Requirement	Notes	Cost
Water Mains	771,249 gpd	Provide basic trunks; 4" and 6" mains; on-grade, reinforced concrete	
	35,018 LF		\$9,000,000
	Water tank – 850,000 gal	water tank	\$2,000,000
	655,562 gpd	Provide basic trunks;	
Wastewater Mains	35,018 LF	15" gravity main (avg. diameter)	\$12,000,000
		w/pump stations	
Runway /Apron Demolition	Asphalt – 85.17 acres	Runway, taxiways and apron will be removed; suitable	\$5,000,000
	Concrete – 75.42 acres	material will be crushed and recycled for aggregate/base	\$12,000,000
		material for new roads.	
Roads	Streets - 94,278 LF		\$17,000,000
	Curbs – 188,556 LF	Combination of local and	\$4,000,000
		collector streets; avg. paving width 35'; 1.5"wearing, avg. 5" paving base, 6" stone subbase	Recycled concrete and asphalt could reduce costs of new road construction
Total			\$61,000,000





LAND USE AND BUILDING PROGRAM		
		Units/Building
Land Use	Acres	Square Feet
RESIDENTIAL		
1/4 Acre Lot Single Family	42	169
Small Lot Single Family	42	297
Townhomes	33	396
Apartments/Condos	22	645
Town Center Apartment/Condos	9	114
CCRC Independent Living	18	126
CCRC Assisted Living/Nursing	9	252
Total Residential	1 <i>7</i> 6	1,999
COMMERCIAL		
CCRC Med Office/Amenities	9	58 <b>,</b> 500
Hotel/Conference	1 <i>7</i>	163,400
Town Center Retail/Service/Restaurants	11	236,095
Town Center Office	3	70,829
Movies/Entertainment	4	35,230
Office Park	130	1,130,818
Retail	11	139,100
Total Commercial	184	1,833,971
OTHER USES		
Regional Recreation Center	22	96,522
School	14	152,727
Aviation Museum	13	55,000
Park/Open Space	280	
Roads, Sidewalks, Paths, Etc.	151	
Total Other Uses	480	304,249
		1,999 Res. Units/
		1.8 Million Com.

1,621 Market Rate Housing Units

761 total school-age students

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TOTAL NET FISCAL IMPACTS	TOTAL		
Land Use	Revenue	Expenditure	Net Impact
RESIDENTIAL			
1/4 Acre Lot Single Family	\$2,900,208	\$2,130,912	\$769,296
Small Lot Single Family	\$2,125,616	\$762,049	\$1,363,567
Townhomes	\$1,937,961	\$4 <b>,</b> 143 <b>,7</b> 62	(\$2,205,801)
Apartments	\$1,945,311	\$3,602,685	(\$1,657,373)
Town Center Apartment/Condos	\$397,832	\$645,236	(\$247,404)
Indpendent Living	\$450,202	\$60,516	\$389 <b>,</b> 687
Assisted Living/Nursing	\$292,564	\$50,883	\$241,681
Total Residential	\$10,049,695	\$11,396,042	(\$1,346,347)
COMMERCIAL			
CCRC Med Office/Amenities	\$204,298	\$14,059	\$190,239
Hotel/Conference	\$440,046	\$32,145	\$40 <b>7,</b> 901
Town Center Retail/Service/Restaurants	\$556,873	\$37,377	\$519,496
Town Center Office	\$184 <b>,</b> 371	\$12,398	\$1 <i>7</i> 1,972
Movies/Entertainment	\$108,168	\$7,862	\$100,306
Office Park	\$5,244,760	\$367,766	\$4,876,993
Retail	\$354,053	\$23,937	\$330,116
Total Commercial	\$7,092,567	\$495,544	\$6,597,023
OTHER USES			
Regional Recreation Center	\$3,996	\$1 <i>7,</i> 393	(\$13,397)
School	\$1 <i>7,</i> 655	\$26,342	(\$8,687)
Aviation Musem	\$579	\$5,339	(\$4,760)
Park/Open Space	\$0	\$0	\$0
Total Other Uses	\$22,230	\$49,074	(\$26,844)
TOTAL NET IMPACT	\$17,164,492	\$11,940,660	\$5,223,832

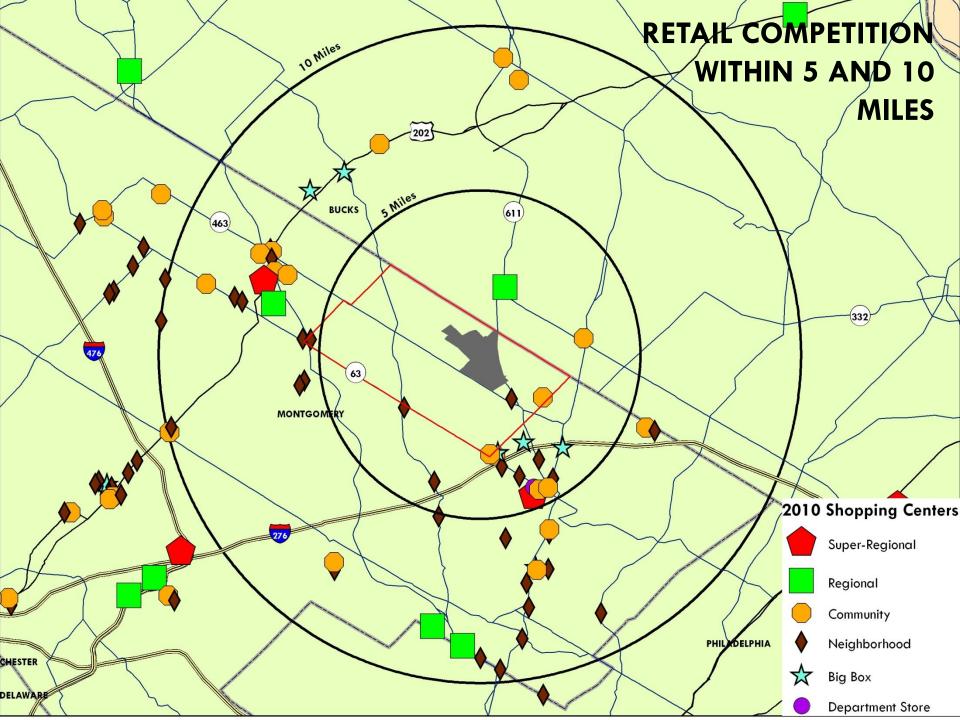
#### Permanent Jobs

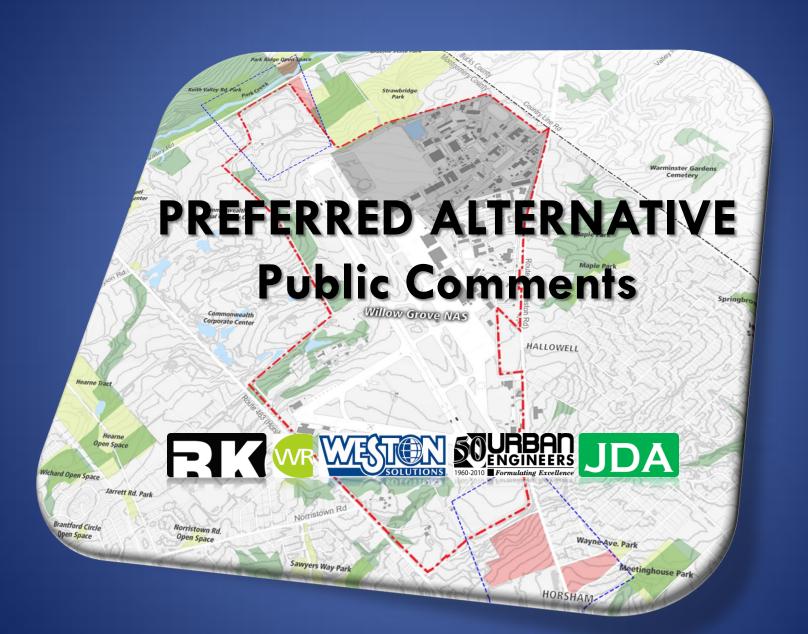
Land Use	Jobs	Payroll
Assisted Living/Nursing	180	\$5,674,769
CCRC Med Office/Amenities	84	\$3,793,587
Hotel/Conference	114	\$3,055,547
Town Center Retail/Service/Restaurants	1,199	\$34,592,045
Town Center Office	142	\$11 <b>,</b> 232 <b>,7</b> 01
Movies/Entertainment	91	\$1,122,443
Regional Recreation Center	138	\$2,743,545
Office Park	2,262	\$179,336,363
Retail	707	\$20,380,565
School	218	\$12,121,200
Aviation Musem	20	\$397,540
Total	5,155	\$274,450,305

#### **Town Center Retail Demand**

- 236,100 SF of Town Center retail
  - Urban Land Institute sales/square feet to calculate amount of sales needed to support development
- \$97.1 million in annual sales needed
- 1,747 new residential units (does not include assisted living/nursing home units)
  - ❖ New units = additional retail demand
  - Assumed various capture rates per retail category (ranged from 0% to 65%)
  - Estimated \$20.1 million in Town Center demand

Town Center potentially captures 15-20% of annual sales from local residents. Need to capture 4-6% of spending within a 5-mile radius of site







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